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New Online Training And Service Centers Announced

Becky Lyon-Hartmann
Regional Medical Library Program Coordinator, NLM

Under the provisions of the recently signed RML Contracts covering the period 1986-1990, online training and services will be provided by three Regional Medical Libraries within the network. These Online Centers will serve states in the following "Online Regions":

EASTERN ONLINE REGION

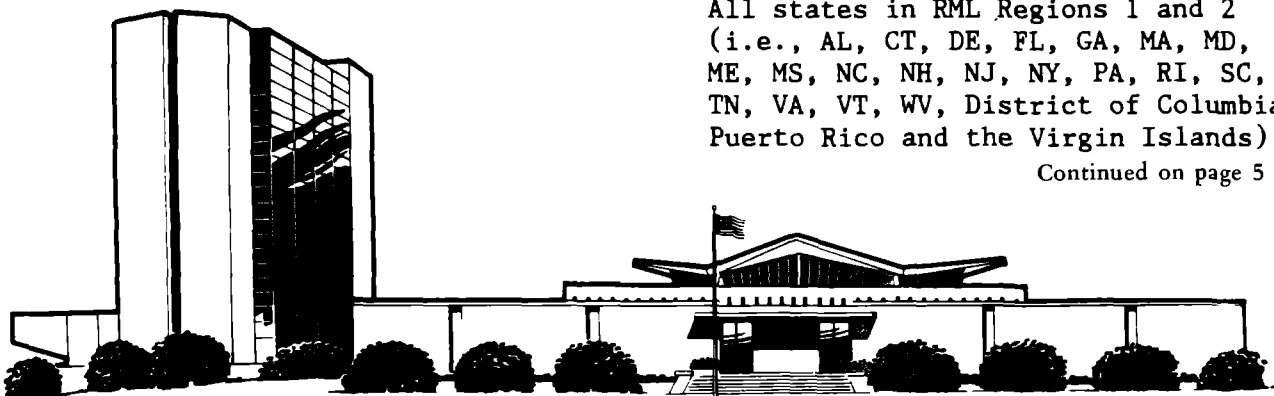
Online Center:

Greater Northeastern Regional
Medical Library Program
The New York Academy of Medicine
2 East 103rd St.
New York, NY 10029
(212) 876-8763

Geographic Area:

All states in RML Regions 1 and 2
(i.e., AL, CT, DE, FL, GA, MA, MD,
ME, MS, NC, NH, NJ, NY, PA, RI, SC,
TN, VA, VT, WV, District of Columbia,
Puerto Rico and the Virgin Islands).

Continued on page 5



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| DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|-----------------|---------------|--------------------------|-------------------|-------------------|
| (ELHILL SYSTEM) | | | | |
| AVLINE | 14,305 | THROUGH 1986 | 16 JAN 86 | |
| BIOETHICS | 19,502 | JAN 73-1985 | 19 DEC 85 | 8512(EM) |
| CANCERLIT | 494,892 | JAN 63-DEC 85 | 07 DEC 85 | 8512(EM) |
| CANCERPROJ | 9,356 | THROUGH 1986 | 07 JAN 86 | 8601(EM) |
| CATLINE | 599,225 | THROUGH 1986 | 16 JAN 86 | |
| CHEMLINE | 659,570 | | 17 DEC 85 | 8512(EM) |
| CLINPROT | 5,200 | | 21 DEC 85 | 8512(EM) |
| DIRLINE | 15,168 | | 24 SEP 85 | |
| HEALTH | 333,022 | JAN 75-FEB 86 | 11 JAN 86 | 8602(EM) |
| HISTLINE | 70,169 | | 11 JAN 86 | 8601(EM) |
| MEDLINE | 505,068 | JAN 84-FEB 86 | 04 JAN 86 | 8602(EM) |
| MED83 | 286,637 | JAN 83-DEC 83 | 18 JAN 86 | |
| MED80 | 804,756 | JAN 80-DEC 82 | 18 JAN 86 | |
| MED77 | 775,069 | JAN 77-DEC 79 | 07 DEC 85 | |
| MED75 | 642,694 | JAN 75-DEC 76 | 07 DEC 85 | |
| MED71 | 883,467 | JAN 71-DEC 74 | 07 DEC 85 | |
| MED66 | 954,613 | JAN 66-DEC 70 | 07 DEC 85 | |
| MESH VOC | 56,098 | 1986 | 18 JAN 86 | |
| NAME AUTH | 191,026 | | 12 JAN 86 | |
| POPLINE | 144,465 | 1970-JAN 86 | 11 JAN 86 | 8601(EM) |
| RTECS | 78,454 | THROUGH OCT 85 | 23 NOV 85 | |
| SDILINE | 24,529 | FEB 86 | 04 JAN 86 | 8602(EM) |
| SERLINE | 66,291 | 1985 | 21 DEC 85 | |
| TOXLINE | 701,984 | | 18 JAN 86 | 8601(EM) |
| CBAC | 396,924 | 1981-VOL 103(12,13) | | |
| TOXBIB | 147,897 | 1981-FEB 86 | | |
| IPA (ASHP) | 33,691 | 1981 VOL 23(1,2) | | |
| BIOSIS | 17,391 | DEC 1985 | | |
| HEEP | 49,788 | 1981-VOL 14(8) | | |
| PESTAB | 1,536 | 1981 | | |
| EMIC | 8,899 | 1981-DEC 1984 | | |
| ETIC | 10,906 | 1981-DEC 1985 | | |
| TD3 | 19,880 | 1981-GRA&I 85(20,21) | | |
| HMTc | 1,481 | 1981-JUN 1985 | | |
| ILO | 3,983 | JUL 1985 | | |
| RPROJ/CRISP | 10,016 | FISCAL YEARS 1983 & 1984 | | |
| TOXBACK76 | 555,808 | | 27 AUG 84 | |
| CBAC | 298,383 | 1976-1980 | | |
| TOXBIB | 106,643 | 1976-1980 | | |
| IPA(ASHP) | 33,321 | 1976-1980 | | |
| HEEP | 63,796 | 1976-1980 | | |
| PESTAB | 14,757 | 1976-1980 | | |
| EMIC | 17,267 | 1976-1980 | | |
| ETIC | 11,970 | 1976-1980 | | |
| TD3 | 9,671 | 1976-1980 | | |
| TOXBACK65 | 598,424 | | 27 AUG 84 | |
| CBAC | 287,992 | 1965-1975 | | |
| TOXBIB | 155,387 | 1965-1975 | | |
| IPA(ASHP) | 33,876 | 1969-1975 | | |
| HEEP | 54,075 | 1970-1975 | | |
| HAPAB/PESTAB | 18,416 | 1968-1975 | | |
| EMIC | 19,554 | 1950-1975 | | |
| ETIC | 13,694 | 1950-1975 | | |
| TD3 | 839 | PRE-1965-1975 | | |
| HAYES | 10,039 | 1940-1968 | | |
| TMIC | 4,552 | 1940-1975 | | |

(TOXNET SYSTEM)

| | | | |
|------|-------|--|-----------|
| TDB | 4,139 | | 01 OCT 85 |
| HSDB | 4,139 | | 14 JAN 86 |

Editor: Carolyn B. Tilley
 Assistant Editor: T. Scott Plutchak
 Technical Notes Editor: Patricia E. Healy

(301) 496-6193

Direct Inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 Bldg. 38A, Rm. 4N421
 Bethesda, Maryland 20894

Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual, 1982 and Supplement, 1984 that is considered most relevant to the item being discussed, e.g., (Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

GEORGE WASHINGTON'S BIRTHDAY HOLIDAY SCHEDULE

The NLM computer will be up on a guaranteed basis Monday, February 17, 1986, the day of the Federal government's observance of George Washington's Birthday. Non-prime rates will be in effect all day and the MEDLARS[®] Management Service Desk will not be staffed. On Washington's Birthday, Saturday, February 22, 1986, the NLM computer will be up all day on the regular Saturday guaranteed/non-guaranteed schedule and at Saturday non-prime rates. Please see the October 1985 NLM Technical Bulletin, Appendix D, for the complete 1986 holiday schedule. □

PDQ DEMONSTRATION CODES

Reminder: Complimentary PDQ Demonstration codes may be obtained from the National Cancer Institute by calling (301) 496-7403 from 8:30 am to 5:00 pm ET, Monday through Friday. □

PRE-EXPLOSIONS FOR 1987 MESH VOCABULARY

Users are invited to suggest Pre-explosions for the 1987 MeSH[®]

Vocabulary. Please call or write the MEDLARS Management Section with ideas before April 1, 1986. All suggestions will be evaluated by NLM staff. Please remember that a suggested Pre-explosion must be a MeSH Heading (preferably with a large number of indented terms in a tree) that requires answering many time overflow messages to EXPLODE online. Hedges, which contain terms from multiple trees or terms from fields other than the MeSH Heading field, are not appropriate suggestions for Pre-explosions. Users may create their own hedges using SAVESEARCH or STORESEARCH. □

CANCERPROJ UNIQUE IDENTIFIER (Manual 17.3.19)

The format of the Unique Identifier (UI) field of the CANCERPROJ database was changed with the 8601 (EM) update. Formerly, the UI was nine characters in length consisting of two alphabetic characters followed by a hyphen (-) and six digits, e.g., AN-038411. The UI is now eight characters long due to the elimination of the hyphen and the compression of the eight-character string, e.g., AN038411. Please note that the actual UI number has not been changed; the hyphen has merely been eliminated. □

CHEMICAL/TOXICOLOGICAL USER GUIDES REVISED

The User-Guides for three of the NLM chemical and toxicological databases (CHEMLINE[®], TOXLINE[®], and RTECS) have been revised and are now available from the National Technical Information Service (NTIS). The

prices and order numbers are as follows:

| <u>Manual</u> | <u>Order Number</u> | <u>Domestic/ Canadian Price</u> |
|---------------|---------------------|---|
| CHEMLINE | PB86-118452/GBB | \$8.00 |
| TOXLINE | PB86-118445/GBB | \$8.00 |
| RTECS | PB86-118437/GBB | \$8.00 |
| Set of 3 | PB86-118429/GBB | \$16.00 |

(The foreign price is normally double the U.S./Canadian price; there is a \$3.00 (\$4.00 foreign) shipping & handling charge per order. Remittance must accompany order.)

The address for NTIS is:

NTIS
US Department of Commerce

5285 Port Royal Road
Springfield, VA 22161
(703) 487-4650 (for credit card orders
and deposit accounts)

MEDLINE DATE OF ENTRY RANGES

A list of the Dates of Entry (DA) ranges for MEDLINE and its Backfiles is attached to this issue as Appendix A.

PHONES LIST

Enclosed with this issue is a list of available telephone numbers used to access the NLM computer.

Please access FILE INFORM and type NEWS to see the most recent news item online!

Online Centers
Continued from page 1

MIDLANDS ONLINE REGION

Online Center:
Midcontinental Regional
Medical Library Program
University of Nebraska
Medical Center Library
42nd and Dewey Ave.
Omaha, NE 68105
(402) 559-4326

Geographic Area:

All states in RML Regions 3, 4 and 5
(i.e., AR, CO, IA, IL, IN, KS, KY,
LA, MI, MN, MO, ND, NE, NM, OH, OK,
SD, TX, UT, WI, WY).

WESTERN ONLINE REGION

Online Center:
Pacific Southwest Regional
Medical Library Program
UCLA Biomedical Library
Center for the Health Sciences
Los Angeles, CA 90024
(213) 825-1200

Geographic Area:

All states in RML Regions 6 and 7
(i.e., AK, AZ, CA, HI, ID, MT, NV,
OR, WA, and U.S. Territories in the
Pacific Basin).

These Online Centers will provide Initial Online Services Training classes for new users of the MEDLARS databases, teach "The Basics of Searching MEDLINE" to health professionals in underserved areas, and conduct workshops to train searchers to teach health professionals "The Basics of Searching MEDLINE." Classes will be held throughout each online region. (The tentative schedule for 1986 Initial

and Advanced Online Services Training Classes appeared in the November 1985 issue of the NLM Technical Bulletin.)

NLM staff will continue to conduct initial online training classes at NLM and will conduct all advanced online training classes. MEDLARS access code application forms should be requested directly from NLM's MEDLARS Management Section (800-638-8480). All applications for training should still be directed to MMS.

The Online Centers will maintain a current list of searchers, within their online regions, who have been trained to teach the NLM course "The Basics of Searching MEDLINE." These lists are used by the Online Centers, other RMLs, and NLM to refer health professionals to these local trainers. Individuals interested in attending this course should contact their Online Center for information about available trainers.

All NLM annual online services update clinics will be conducted by the Online Centers. Each Online Center will provide approximately 20 updates in its online region for a moderate fee to recover costs. The schedule for these updates will be published in the NLM Technical Bulletin and the RML newsletters each fall. Any questions about online services update clinics should be directed to the Online Center.

This new Online Center structure provides greater decentralization of NLM Online Training and will increase the availability of training nationwide. NLM expects this latest development to improve online services and training support throughout the RML network. □

CCRIS: A New Carcinogenesis File On TOXNET

Philip Wexler
Dalton Tidwell
Specialized Information Services, NLM

CCRIS (Chemical Carcinogenesis Research Information System), a databank developed and maintained by the National Cancer Institute (NCI), will join the ranks of TOXNET files in early 1986.

The origins of CCRIS date back to 1981 when NCI began compiling a handbook of summaries of carcinogenesis bioassay technical reports prepared by the National Cancer Institute/National Toxicology Program. The system was eventually computerized and gradually expanded in size and scope. Carcinogenesis data from additional sources were added and the file was enhanced with mutagenesis and tumor promotion data. Begun as an internal NCI tool to respond to various carcinogenesis inquiries within and outside of NCI, CCRIS continues to serve this purpose. As a TOXNET file, CCRIS becomes available to NLM's extensive biomedical research community as well.

The CCRIS file on TOXNET will contain carcinogenicity, tumor promotion, and

mutagenicity test results on chemicals that have been evaluated according to currently accepted protocols. Each test result included in CCRIS has been judged to be an adequate measure of an effect of the chemical tested according to criteria widely accepted by experts in carcinogenesis. Both positive and negative carcinogenicity test results are included; only positive mutagenicity and tumor promotion data are cited.

The data are derived from the routine scanning of a core set of primary journals, published review articles, and a continuous current awareness survey of such sources as Current Contents, CANCERGRAMS, and CA Selects. Special core sources used include the NCI/NTP Carcinogenesis Technical Report Series, the IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, and a broad range of NCI reports. NCI continuously monitors the carcinogenesis literature for new CCRIS core sources. Input of the extensive Survey of compounds which have been tested for carcinogenic activity is projected to begin in 1986.

Future NLM Technical Bulletin articles will describe the CCRIS file structure, special search system characteristics, access costs, and implementation date. □

Monthly Search Hint

Interleukin 2

Ruth Stander
T. Scott Plutchak
Index Section, NLM

The December 5, 1985 issue of the New England Journal of Medicine included an article announcing preliminary results of research at the National Cancer Institute involving the use of interleukin-2 in the treatment of patients with advanced cancer*. Since that time, the MEDLARS Management

* Rosenberg SA, Lotze MT, Muul LM, Leitman S, Change AE, Ettinghausen SE, Matory YL, Skibber JM, Shiloni E, Vetto JT, et al. Observations on the systemic administration of autologous lymphokine-activated killer cells and recombinant interleukin-2 to patients with metastatic cancer. *N Engl J Med* 1985 Dec 5;313(23):1485-92.

Service Desk has received a number of calls from searchers inquiring how to search for Interleukin 2. This article describes the use of the subject term Interleukin 2 as it appears in the various MeSH tools. The principles involved can be applied to many other chemical terms.

The Main Heading for Interleukin 2 in MeSH and MEDLINE is MITOGENIC FACTORS, LYMPHOCYTE, as illustrated in the MESH VOCABULARY FILE record in Figure 1. This record contains ten non-print entry terms and four print entry terms. The mnemonic for an entry term in the MESH File is BX, which stands for Backward Cross-Reference. When a Backward Cross-Reference has a 0 right after the name it is a non-print term;

| | |
|-----|---|
| MH | - Mitogenic Factors, Lymphocyte |
| DT | - 1 |
| DC | - 1 |
| MN | - D24.611.632.630 |
| FX | - Helper Cells:3 |
| DY | - 780101 |
| DX | - 830101 |
| MS | - Soluble substances elaborated by antigen-or mitogen-stimulated T lymphocytes which induce DNA synthesis in naive lymphocytes. |
| PI | - Mitogens (73-77) |
| DA | - 770301 |
| MR | - 770621 |
| MR | - 850710 |
| RO | - O:SH |
| RO | - C:OO |
| RO | - M:GJB |
| BX | - Co-Stimulator:0:00000000:0000000:801120 |
| BX | - IL-2:0:00000000:0000000:801120 |
| BX | - Thymocyte Stimulating Factor:0:00000000:0000000:801215 |
| BX | - T-Cell Stimulating Factor:0:00000000:0000000:801215 |
| BX | - Interleukine 2:0:00000000:0000000:810807 |
| BX | - Interleukin II:0:00000000:0000000:810918 |
| BX | - I12:0:00000000:0000000:810918 |
| BX | - Mitogenic Factor:0:00000000:0000000:820430 |
| BX | - Costimulator:0:00000000:0000000:821129 |
| BX | - IL2:0:00000000:0000000:830328 |
| BX | - Lymphocyte Mitogenic Factor:1:00000000:0000000:770225 |
| BX | - Interleukin 2:1:00000000:0000000:820430:INTERLEUKIN 02 |
| BX | - TCGF:1:00000000:0000000:820430 |
| BX | - T Cell Growth Factor:1:00000000:0000000:820430 |
| BX | - Helper Cells:3 |
| AN | - only /admin /anal /biosyn /csf /class /genet /immunol /isol /physiol /urine |
| HN | - 83; was MITOGENIC FACTOR see under LYMPHOKINES 1978-82 |
| OL | - use MITOGENIC FACTORS, LYMPHOCYTE to search MITOGENIC FACTOR 1978-82 |
| PM | - 83; was MITOGENIC FACTOR see under LYMPHOKINES 1978-82 |
| RY | - D |
| M80 | - 536 |
| M80 | - *303 |
| M77 | - 72 |
| M77 | - *41 |

Figure 1

when the number is a 1, such as it is for Interleukin 2, it is a print entry term. Non-print terms do not appear in any printed MeSH product, but they may be used in searching, as described below. Print terms are listed in MeSH products such as the Annotated Alphabetic List and Index Medicus as see references, and may also be used in searching. (Non-print terms include such things as minor spelling variants, trade names, and synonyms added during the year. Some of these latter may be changed to print terms at year-end.) A number 2 after the name indicates a minor descriptor mapping to the Main Heading and a number 3 indicates a see also related cross-reference (e.g., Helper Cells in Figure 1).

MESH and MEDLINE Searches

All print entry terms and non-print entry terms are directly searchable in MESH and MEDLINE. For example, if a searcher enters IL-2, a non-print entry term, or Interleukin 2, a print entry term in the MESH File, the record for MITOGENIC FACTORS, LYMPHOCYTE will be retrieved. Similarly, if either term is entered in a MEDLINE search, all records indexed to MITOGENIC FACTORS, LYMPHOCYTE are retrieved, as shown in Figure 2.

In the Annotated Alphabetic MeSH only the print cross references appear. A user looking up Interleukin 2 will see right beneath INTERLEUKIN 1 a cross reference stating: INTERLEUKIN 2 SEE MITOGENIC FACTORS, LYMPHOCYTE. No cross reference from IL-2 will appear in the printed MeSH.

Index Medicus Search

Index Medicus users will only see the print entry terms. IL-2 will not appear in Index Medicus, but the searcher looking up Interleukin 2 will find a cross reference to MITOGENIC FACTORS, LYMPHOCYTE. This is also true for other print entry terms such as T Cell Growth Factors, TCGF and Lymphocyte Mitogenic Factor.

In summary, any Cross Reference with the number 0 or 1 directly after the Cross Reference in the MESH File is considered synonymous or nearly synonymous with the Main Heading indicated, and entering the Cross Reference in a MEDLINE search will retrieve all citations indexed to that Main Heading. Searchers who are interested specifically in articles that use the exact term or phrase represented by the cross-reference may want to combine the Main Heading

```

Interleukin 2 and synonyms in MEDLINE

YOU ARE NOW CONNECTED TO THE MEDLINE (1984 FORWARD) FILE.

SS 1 /C?
USER:
interleukin 2
PROG:
SS (1) PSTG (1349)

SS 2 /C?
USER:
il-2
PROG:
SS (2) PSTG (1349)

SS 3 /C?
USER:
mitogenic factors, lymphocyte
PROG:
SS (3) PSTG (1349)
    
```

Figure 2

search with a Text Word (TW) search on the specific synonym, as illustrated in Figure 3. As always, the exact nature of the search question is of utmost importance. The strategy outlined in Figure 3 retrieves only articles that use the exact phrase Interleukin 2 (or Interleukin-2) in

the title or abstract. Depending on the precise needs of the requester and/or searcher, this may result in relevant citations being missed, since other relevant articles may use different synonyms that would still be indexed to MITOGENIC FACTORS, LYMPHOCYTE. □

```

Sample search for Interleukin 2

SS 1 /C?
USER:
*interleukin 2
PROG:
SS (1) PSTG (691)

SS 2 /C?
USER:
1 and neoplasms (px)
PROG:
SS (2) PSTG (163)

SS 3 /C?
USER:
2 and interleukin (tw)
PROG:
SS (3) PSTG (118)

SS 4 /C?
USER:
ts (ti) :interleukin#2: or :interleukin#2: (ab)
PROG:
(65) SCHD (64) QUAL; CONT? (Y/N)

USER:
Y
PROG:
SS (4) PSTG (115)

SS 5 /C?
USER:
prt 2 compr
PROG:

1
UI - 86042650
AU - Chen SJ ; Holbrook NJ ; Mitchell KF ; Vallone CA ; Greengard JS ;
    Crabtree GR ; Lin Y
TI - A viral long terminal repeat in the interleukin 2 gene of a cell
    line that constitutively produces interleukin 2.
SO - Proc Natl Acad Sci USA 1985 Nov;82(21):7284-8

2
UI - 86040328
AU - Rosenberg SA ; Lotze MT ; Muul LM ; Leitman S ; Chang AE ;
    Ettinghausen SE ; Matory YL ; Skibber JM ; Shiloni E ; Vetto JT ;
    et al
TI - Observations on the systemic administration of autologous
    lymphokine-activated killer cells and recombinant interleukin-2
    to patients with metastatic cancer.
SO - N Engl J Med 1985 Dec 5;313(23):1485-92
    
```

Figure 3

SERIALS UPDATE

INDEXED TITLE UPDATE, JANUARY 1986

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last

UPDATE. More detailed information about each title may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, DECEMBER 1986

- | | |
|---|--|
| <p>INI INTENSIVE CARE NURSING INTENSIVE CARE NURS INI, SPRING 1985-- CHURCHILL LIVINGSTONE EDINBURGH SCOTLAND INDEXING BEGAN WITH VIN2, 1985. W1 IN6522 0266-612X SR0052330 JTC: ICN</p> | <p>INI NAACOG NEWSLETTER NAACOG NEWSL 9, 1982-- NURSES ASSOCIATION OF THE AMERICAN COLLEGE OF OBSTETRICIANS AND GYNECOLOGISTS WASHINGTON UNITED STATES CONTINUES: ACOG NURSES BULLETIN. THIS TITLE IS NOT IN THE NLM COLLECTION. INDEXING BEGAN WITH V12N10, NOV 1985. ANA N00025000 JTC: MN2 NAACOG, 600V MARYLAND AVENUE, S.W., SUITE 200 EAST, WASHINGTON DC 20024-2589</p> |
| <p>IDL JOURNAL OF EVENTS OF THE INTERNATIONAL COLLEGE OF DENTISTS J EVENTS INT COLL DENT N1, 1936?-- INTERNATIONAL COLLEGE OF DENTISTS MIAMI FL UNITED STATES THIS TITLE IS NOT IN THE NLM COLLECTION. INDEXING BEGAN WITH N49, 1984-85. ADA SR0055740 JTC: KDL INTERNATIONAL COLLEGE OF DENTISTS, 3138 COMMODORE PLAZA, MIAMI FL 33133</p> | |

TITLE CHANGES, DECEMBER 1986

- | | |
|--|---|
| <p>IM ALCOHOL AND DRUG RESEARCH ALCOHOL DRUG RES 6N1, 1985/86-- PERGAMON PRESS ELMSFORD NY UNITED STATES CONTINUES: SUBSTANCE AND ALCOHOL ACTIONS/MISUSE. W1 AL303D 0883-1386 SR0055669 JTC: AAM</p> | <p>IM INTERNATIONAL JOURNAL FOR VITAMIN AND NUTRITION RESEARCH. SUPPLEMENT INT J VITAM NUTR RES [SUPPL] N23, 1983?-- HUBER VARIES VARIES TITLE VARIES FREQUENTLY. CONTINUES: INTERNATIONALE ZEITSCHRIFT FUR VITAMIN- UND ERNAHRUNGSFORSCHUNG. BEIHEFT. W1 IN7652QR SR0055680 JTC: IJV</p> |
| <p>IM CHILDS BRAIN CHILDS BRAIN 1, 1975-11N6, 1984 KARGER BASEL SWITZERLAND CONTINUED BY: CHILDS NERVOUS SYSTEM AND: PEDIATRIC NEUROSCIENCE. W1 CH705 0302-2803 C18540000 JTC: D2W</p> | <p>IM INTERNATIONALE ZEITSCHRIFT FUR VITAMIN- UND ERNAHRUNGSFORSCHUNG. BEIHEFT INT Z VITAM ERNAHRUNGSFORSCH [BEIH] 12, 1972-21, 1981 VERLAG HANS HUBER BERN SWITZERLAND CONTINUES BEIHEFT OF THE INTERNATIONALE ZEITSCHRIFT FUR VITAMINFORSCHUNG. CONTINUED BY: INTERNATIONAL JOURNAL FOR VITAMIN AND NUTRITION RESEARCH. SUPPLEMENT. W1 IN7652R 0373-0883 I35940000 JTC: GUZ</p> |

- | | |
|--|---|
| <p>IM JUGOSLAVENSKA GINEKOLOGIJA I OPSTETRICIJA JUGOSL GINEKOL OPSTET 197?-24N5-6,SEP-DEC 1984 UDRUZENJE GINEKOLOGA-OPSTERICARA JUGOSLAVIJE ZAGREB YUGOSLAVIA CONTINUES JUGOSLOVENSKA GINEKOLOGIJA I OPSTETRICIJA. CONTINUED BY: JUGOSLAVENSKA GINEKOLOGIJA I PERINATOLOGIJA. W1 JU6245 J42720000 JTC: K94</p> | <p>IM PEDIATRIC NEUROSCIENCE PEDIATR NEUROSCI 12N1,1985-86-- KARGER BASEL SWITZERLAND CONTINUES: CHILDS BRAIN. IN PROCESS 0255-7975 SR0051447 JTC: PEN</p> |
| <p>IM JUGOSLAVENSKA GINEKOLOGIJA I PERINATOLOGIJA JUGOSL GINEKOL PERINATOL 25N1-2,JAN-APR 1985-- UDRUZENJA GINEKOLOGA-OPSTETRICARA JUGOSLAVIJE ZAGREB YUGOSLAVIA CONTINUES: JUGOSLAVENSKA GINEKOLOGIJA I OPSTETRICIJA. JOURNAL OF THE ASSOCIATION OF THE GYNAECOLOGISTS-OBSTETRICIANS OF YUGOSLAVIA AND OF THE ASSOCIATION FOR THE PERINATAL MEDICINE OF YUGOSLAVIA. W1 JU6246 0352-5562</p> | <p>IM SUBSTANCE AND ALCOHOL ACTIONS/MISUSE SUBST ALCOHOL ACTIONS MISUSE 1N1,1980-5N6,1984 PERGAMON PRESS ELMSFORD NY UNITED STATES CONTINUED BY: ALCOHOL AND DRUG RESEARCH. INDEXING BEGAN WITH VIN1,1980. W1 SU147M 0191-8877 S45550000 JTC: VAC</p> |
| | <p>INI WORLD OF IRISH NURSING WORLD IR NURS 1,1972-4N5,1985? IRISH NURSES ORGANISATION DUBLIN IRELAND SUPERSEDES IRISH NURSES JOURNAL W1 W08974 0332-3056 W09720000 JTC: XQB</p> |

TITLES NO LONGER INDEXED AS OF DECEMBER 1986

- | | |
|---|---|
| <p>IM AFRICAN JOURNAL OF PSYCHIATRY. LE JOURNAL AFRICAIN DE PSYCHIATRIE AFR J PSYCHIATRY 1975?-7N3-4,1981? LITERAMED PUBLICATIONS NIGERIA LAGOS NIGERIA JOURNAL OF THE AFRICAN PSYCHIATRIC ASSOCIATION. INDEXING BEGIN WITH V7N1JAN 1981 W1 AF542 0331-0175 A16845000 JTC: 29H</p> | <p>HLI MULTIS MULTIS 1N1,MAR 1983-3N6,DEC 1985 AMERICAN HOSPITAL PUBLISHING CHICAGO UNITED STATES WITH QUARTERLY ISSUES OF: HOSPITALS, V. 57, NO. 5 (MAR. 1, 1983)- . ALSO PUBLISHED SEPARATELY. NLM DOES NOT COLLECT SEPARATE PUBLICATION; ISSUES ARE BOUND AND SHELVED WITH: HOSPITALS. W1 H0934 0749-1611 M50750000 JTC: NJ8</p> |
| <p>IM PERSPECTIVES IN PEDIATRIC PATHOLOGY POP PERSPECT PEDIATR PATHOL 1 1973-8N4,1984 MASSON CHICAGO UNITED STATES SPONSORED BY THE PEDIATRIC PATHOLOGY CLUB. V8N1,SPRING 1984 ALSO LABELLED VIN1,SPRING 1984. VOLUMES 1-7 PUBLISHED ON AN IRREGULAR BASIS. VOLUMES 1-4 PUBLISHED BY YEAR BOOK MEDICAL PUBLISHERS. W1 PE871D 0091-2921 P09200000 JTC: OZR</p> | |

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES, DECEMBER 1986

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH, and POPLINE are listed in the "INDEXED TITLES UPDATE" section. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill

loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

BOTSWANA NATIONAL HEALTH BULLETIN
 IN1,1985--
 BOTSWANA. NATIONAL HEALTH INSTITUTE
 GABORONE BOTSWANA
 IN PROCESS
 SR0055630
 BOTSWANA NATIONAL HEALTH BULLETIN,P.O.
 BOX 985,GABORONE,BOTSWANA

FERTILITAT
 IN1,SEP 1985--
 SPRINGER
 BERLIN GERMANY, WEST
 VOL. 1 COMPLETE IN 2 NUMBERS.
 IN PROCESS
 SR0055717

COEUR CIRCULATION CORONAIRES
 I,1985--
 LABORATOIRE ROGER BELLON
 NEUILLY-SUR-SEINE FRANCE
 ON ORDER
 SR0055733
 LABORATOIRE ROGER BELLON,159 AVE A
 PERRETI,NEUILLY-SUR-SEINE 92200,FRANCE

FRONTIERS IN IMMUNOASSAY AND BIOTECHNOLOGY
 FOR THE CLINICAL LABORATORY
 6N1,JAN 1985--
 SCIENTIFIC NEWSLETTERS
 ANAHEIM CA UNITED STATES
 CONTINUES: FRONTIERS IN IMMUNOASSAY.
 IN PROCESS
 SR0055611
 SCIENTIFIC NEWSLETTERS,P.O. BOX 4546
 ANAHEIM,CA 92803

COLLECTION D IMAGERIE MEDICALE
 I,1985--
 MASSON
 PARIS FRANCE
 ON ORDER
 SR0055734

HORATIO R. STORER SERIES IN ETHICS, LAW,
 AND MEDICINE
 I,1984--
 UNIVERSITY PUBLICATIONS OF AMERICA
 FREDERICK MD UNITED STATES
 IN PROCESS
 SR0055627
 UNIVERSITY PUBLICATIONS OF AMERICA INC,
 44 NORTH MARKET STREET, FREDERICK MD
 21701

CURRENT STUDIES IN HEMATOLOGY AND BLOOD
 TRANSFUSION
 1986--
 KARGER
 BASEL SWITZERLAND
 CATALOGING IN PUBLICATION. CONTINUES:
 BIBLIOTHECA HAEMATOLOGICA.
 ON ORDER - CIP
 SR0055721

INTERFERON Y BIOTECNOLOGIA
 IN1,JAN/APR 1984?--
 SOCIEDAD IBEROLATINOAMERICANA PARA
 INVESTIGACIONES SOBRE INTERFERON
 HABANA CUBA
 IN PROCESS
 SR0055714
 INTERFERON Y BIOTECNOLOGIA, APARTADO
 6072, LA HABANA, CUBA

DIABETES IN AMERICA
 1984--
 US. NATIONAL INSTITUTE OF ARTHRITIS,
 DIABETES, AND DIGESTIVE AND KIDNEY DISEASES
 BETHESDA MD UNITED STATES
 CONTINUES: DIABETES DATA.
 IN PROCESS
 SR0055722
 U.S. DEPARTMENT OF HEALTH AND HUMAN
 SERVICES, WASHINGTON DC 20202

INTERNATIONAL PEDIATRICS - JOURNAL OF THE
 MIAMI CHILDRENS HOSPITAL
 I,1986--
 MIAMI CHILDRENS HOSPITAL
 MIAMI FL UNITED STATES
 ON ORDER
 SR0055599
 MR. NESTOR LOPEZ,MIAMI CHILDRENS
 HOSPITAL,6125 SOUTHWEST 31ST ST.,MIAMI
 FL 33155

EPILEPSY ADVANCES IN CLINICAL AND
 EXPERIMENTAL RESEARCH
 IN1,DEC 1985--
 EPILEPSY FOUNDATION OF AMERICA
 LANDOVER MD UNITED STATES
 IN PROCESS
 SR0055712
 ELI S. GOLDENSOHN M.D.,EPILEPSY
 FOUNDATION OF AMERICA,4351 GARDEN CITY
 DRIVE,LANDOVER MD 20785

JAPANESE JOURNAL OF THE SEXUALLY
TRANSMITTED DISEASES
65N1-3,1984--
NIHON SEIBYO YOBO KYOKAI
TOKYOTO JAPAN
CONTINUES: VD; THE JAPANESE JOURNAL OF
THE VENEREAL DISEASES.
IN PROCESS
SR0055629
NIHON SEIBYO YOBO KYOKAI,14-10,HONGO 3
CHOME,BUNKYOKU,TOKYOTO 113,JAPAN

JOURNAL OF ANAESTHESIOLOGY
1,1984--
PAKISTAN SOCIETY OF ANAESTHESIOLOGISTS
LAHORE PAKISTAN
IN PROCESS
SR0055726

JOURNAL OF CROSS-CULTURAL GERONTOLOGY
1,1986--
REIDEL
DORDRECHT NETHERLANDS
ON ORDER
SR0055635 \$170.00

JOURNAL OF THE EGYPTIAN SOCIETY OF
ULTRASONICS IN MEDICINE
1N1,JUN 1984--
YEHYA MAHRAN
CAIRO EGYPT
IN PROCESS
SR0055579
YEHYA MAHRAN,20 GAMAL EL-DIN ABOU
EL-MAHASIN,GARDEN CITY CAIRO,A.R.E EGYPT

JOURNAL OF GASTROENTEROLOGY AND HEPATOLOGY
1N1,JAN-FEB 1986--
BLACKWELL
VICTORIA AUSTRALIA
ON ORDER
SR0055681 \$75.00
BLACKWELL SCIENTIFIC PUBLICATIONS PTY
LTD,107 BARRY ST.,CARLTON
3053,VICTORIA,AUSTRALIA

KOREAN JOURNAL OF PHARMACOLOGY
21N1,JUN 1985--
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SEOUL KOREA, SOUTH
CONTINUES: TAEHAN YANGNIHAK CHAPCHI.
IN PROCESS
SR0055582
SOCIETY OF PHARMACOLOGY,DEPARTMENT OF
PHARMACOLOGY COLLEGE OF MEDICINE,SEOUL
NATIONAL UNIVERSITY,SEOUL,KOREA

LUNG CANCER
1/2,1985/86--
ELSEVIER
AMSTERDAM NETHERLANDS
ON ORDER
SR0055634 \$277.00

MALAYSIAN JOURNAL OF MEDICAL LABORATORY
SCIENCES
1N1,1984--
PERTUBUHAN TEKNOLOGIS MAKMAL
KUALA LUMPUR MALAYSIA
OFFICIAL PUBLICATION OF THE MALAYSIAN
SOCIETY OF MEDICAL LABORATORY TECHNOLOGISTS.
ON ORDER
SR0055650
MALAYSIAN JOURNAL OF MEDICAL LABORATORY
SCIENCES, C/O M.D.1, FACULTY OF
MEDICINE, UNIVERSITY OF MALAYA , KUALA
LUMPUR, WEST MALAYSIA

MARQUIS WHOS WHO IN CANCER
1ST ED.,1985--
MARQUIS WHOS WHO INC
CHICAGO UNITED STATES
IN PROCESS
SR0055609
MARQUIS WHOS WHO INC, PROFESSIONAL
PUBLICATIONS DIVISION, 200 E. OHIO ST.,
CHICAGO IL 60611

MARQUIS WHOS WHO IN REHABILITATION
1ST ED, 1985--
MARQUIS WHOS WHO INC
CHICAGO UNITED STATES
IN PROCESS
SR0055624
MARQUIS WHOS WHO INC, PROFESSIONAL
PUBLICATIONS DIVISION, 200 E. OHIO ST.,
CHICAGO IL 60611

MINERVA ORTOGNATODONTICA
1986?--
EDIZIONI MINERVA MEDICA
TORINO ITALY
ON ORDER
SR0055602 \$60.00

MINERVA RIFLESSOTERAPEUTICA E
LASERTERAPEUTICA
1986--
EDIZIONI MINERVA MEDICA
TORINO ITALY
ON ORDER
SR0055601 \$40.00

ODEM
1986--
PERIMED VERLAG
ERLANGEN GERMANY, WEST
ON ORDER
SR0055591
PERIMED VERLAG DR. DIETMAR
STRAUBE,POSTFACH 3740,8520 ERLANGEN,WEST
GERMANY

PRAKTISCHE SPORT-TRAUMATOLOGIE UND
SPORTMEDIZIN
1,1985--
ZUCKSCHWERDT
MUNICH
IN PROCESS
SR0055716
W. ZUCKSCHWERDT VERLAG,FRONWINKLER
STRASSE 24,D-8000 MUNCHEN,GERMANY

GERMANY, WEST

RINSHO TOSEKI
1N1, JAN 1985--
NIHON MEDICAL CENTER
TOKYO
IN PROCESS
SR0055670
NIHON MEDICAL CENTER,OGIHARA
BUILDING,2-3-1 SARUGAKU-CHO,CHIGODA-KU,TO
KYO 101,JAPAN

JAPAN

PROGRESS IN SELF PSYCHOLOGY
1,1986--
GUILDFORD PRESS
NEW YORK
ON ORDER
SR0055728
GUILDFORD PRESS,DEPT.M 123456, 200 PARK
AVENUE SOUTH,NEW YORK NY 10003

UNITED STATES

\$21.50

SCHRIFTENREIHE SOZIALWISSENSCHAFTLICHE
SEXUALFORSCHUNG
1,1986--
WALTER DE GRUYTER
BERLIN
IN PROCESS
SR0055718

GERMANY, WEST

VACINAS E SOROS
1,1985--
SOCIEDADE BRASILEIRA DE IMUNOBIOLOGICOS
SAO PAULO
IN PROCESS
SR0055730
SOCIEDADE BRASILEIRA DE
IMUNOBIOLOGICOS,RUA FRADIQUE COUTINHO
743,SAO PAULO, BRAZIL

BRAZIL

APPENDIX A

DATE OF ENTRY (DA) RANGES FOR INDEX MEDICUS (IM) YEARS

| | <u>IM Year</u> | <u>DA Range</u> | <u>Number of citations</u> |
|-----------|----------------|-----------------------|----------------------------|
| (MED66) | 1966 - | 651113 through 661101 | 157,495 |
| | 1967 - | 661123 through 671129 | 170,702 |
| | 1968 - | 671212 through 681111 | 215,171 |
| | 1969 - | 681117 through 691119 | 233,598 |
| | 1970 - | 691126 through 701112 | 219,995 |
| (MED71) | 1971 - | 701117 through 711117 | 214,378 |
| | 1972 - | 711130 through 721030 | 231,610 |
| | 1973 - | 721108 through 731116 | 217,751 |
| | 1974 - | 731130 through 741119 | 223,693 |
| (MED75) | 1975 - | 741205 through 751108 | 224,982 |
| | 1976 - | 751120 through 761103 | 278,360 |
| (MED77) | 1977 - | 761104 through 771031 | 266,305 |
| | 1978 - | 771101 through 781027 | 235,094 |
| | 1979 - | 781118 through 791026 | 247,281 |
| (MED80) | 1980 - | 791027 through 801027 | 257,948 |
| | 1981 - | 801028 through 811030 | 274,888 |
| | 1982 - | 811031 through 821029 | 277,688 |
| (MED83) | 1983 - | 821030 through 831028 | 300,620 |
| (MEDLINE) | 1984 - | 831029 through 841026 | 298,733 |
| | 1985 - | 841027 through 851025 | 299,313 |
| | 1986 - | 851026 through | |

These DA ranges and citation totals reflect the citations added to the database, i.e., those published in IM, plus all the Special List citations, during the designated IM year. (Note: An IM year starts in about late October for DA values because of the lead time needed for printing the publication.) Any citation added during an IM year with a year of publication (YR) less than what is covered in the current file (MEDLINE) is later moved to the most recent backfile. MED75, MED77, MED80, and MED83 are backfiles that have received citations based on year of publication and, therefore, have citations with Dates of Entry beyond 761103, 791026, 821029, and 831028 respectively.

MED66 and MED71 are backfiles that received citations based only on Date of Entry and not also year of publication and, therefore, should not contain citations with DA values beyond the upper ranges shown here.

If necessary, DA ranges for a file may be determined by neighboring on (DA) values to find the upper and lower limits. The number of citations in each file are reported on page 2 of every NLM Technical Bulletin. For more information about DA ranges, see the April '83 SEARCH HINT.

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Please attach your current mailing label in the space provided and enter the new information on the lines below. Check the appropriate box(es) below to indicate whether this change is for Billing, the NLM Technical Bulletin, or both. Be sure to include your User ID code. Address changes for Automatic SDI service must be made on the regular Auto SDI form; they cannot be made using this form.

Attach current address label here (or enter current information):

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Office: _____

Instit.: _____

Street: _____

City,
State, Zip: _____

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Change TB address

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National Library of Medicine
Bldg. 38A Rm. 4N421
8600 Rockville Pike
Bethesda, MD 20894

MMS 9/85

NOTICE: There is important information on the reverse of this page. DO NOT send in this form without making a copy of it or the verso.

Telephone Numbers For Telenet, Tymnet, Uninet And Direct Dial Access To The NLM Computer

This list is regularly produced by the Systems Support Branch, Office of Computer and Communications Systems, NLM. MEDLARS Management Section reproduces and distributes it as an enclosure with the NLM Technical Bulletin.

Please note the following features when using this list:

The list is alphabetized by the full spelling of the state; however, the two-letter abbreviations appear on the list. Not all suburban areas are listed; therefore, when looking for a specific city, one should check for cities in the entire calling area as well as the specific exchange.

To locate the speed of the line, read the modem designation at the right of each number and refer to the legend at the beginning of the list. For example, "A" following a telephone number indicates Bell 212A compatible, 300 or 1200 bps (bits per second, or baud).

The networks are offering an increasing number of 2400 bps nodes. As indicated in the legend, these numbers are followed by a dollar sign (\$). A compatible 2400 bps modem is required to use these nodes.

JANUARY 14, 1986

NETWORK ACCESS NUMBERS

```
*****
*
* S= BELL 202S OR 202T: 1200 bps *
* A= Bell 212A: 300/1200 bps *
* V= Vadic 3405:1200 bps *
* BV= Bell 212A/Vadic 3467 *
* $= 2400 bps:must have compatible *
* 2400 bps modem *
* *= NLM Direct Dial Number *
* %= changes in last update *
*
*****
```

UNLESS OTHERWISE NOTED, THE SPEED IS 110-300 BPS

| City | St | Tymnet | Telenet | Uninet |
|----------------|----|-----------------|-----------------|------------------|
| Anniston | AL | 205/236-2655 BV | | |
| Bessemer | AL | | | 205/324-5440 BV |
| Birmingham | AL | 205/942-4141 BV | 205/328-2310 BV | 205/324-5440 BV |
| Birmingham | AL | 205/942-7898 \$ | | |
| Florence | AL | 205/767-7131 BV | 205/766-9101 BV | |
| Huntsville | AL | 205/882-3003 BV | 205/539-2281 BV | 205/536-2570 BV |
| Mobile | AL | 205/343-8414 BV | 205/432-1680 BV | 205/432-5590 BV |
| Montgomery | AL | 205/265-4570 BV | 205/269-0090 BV | 205/265-9210 BV |
| Prichard | AL | | | 205/432-5590 BV |
| Sheffield | AL | | 205/767-7960 BV | |
| Tuscaloosa | AL | 205/349-5670 BV | | 205/345-3388 BV |
| Anchorage | AK | 907/338-7222 BV | 907/276-0271 BV | |
| Fairbanks | AK | 907/456-3282 BV | | |
| Ft. Smith | AK | 501/782-3210 BV | | |
| Prudhoe Bay | AK | 907/659-2777 BV | | |
| Juneau | AK | 907/789-7009 BV | 907/586-9700 BV | |
| Mesa | AZ | | | 602/253-1940 BV |
| Phoenix | AZ | 602/254-5811 BV | 602/254-0244 BV | 602/253-1940 BV |
| Phoenix | AZ | 602/258-0554 \$ | | |
| Scottsdale | AZ | | | 602/253-1940 BV |
| Tempe | AZ | | | 602/253-1940 BV |
| Tucson | AZ | 602/790-0764 BV | 602/747-0107 BV | 602/747-7868 BV |
| Fayetteville | AR | 501/442-3850 BV | | |
| Fort Smith | AR | 501/782-3210 BV | | 501/782-4185 BV |
| Hot Springs | AR | 501/321-9741 BV | | |
| Jonesboro | AR | 501/932-1147 BV | | |
| Little Rock | AR | 501/666-6886 BV | 501/372-4616 BV | 501/372-5098 BV |
| Pine Bluff | AR | 501/535-8055 BV | | |
| Springdale | AR | 501/756-2201 BV | | |
| Alhambra | CA | 818/308-1800 BV | 818/507-0909 BV | 818/242-8555 BV |
| Anaheim | CA | | 714/558-6061 A | 714/955-3611 BV |
| Antioch | CA | 415/754-8222 BV | 714/558-7078 A | |
| Arcadia | CA | 818/308-1800 BV | | 818/242-8555 BV |
| Bakersfield | CA | 805/322-5078 BV | 805/327-8146 BV | 805/324-9643 BV |
| Belmont | CA | 415/361-8701 \$ | | 415/592-4140 BV |
| Beverly Hills | CA | 213/789-9002 BV | | 213/748-0203 BV |
| Beverly Hills | CA | | | 213/748-0142 \$ |
| Berkely | CA | | | 415/652-3566 BV |
| Berkely | CA | | | 415/989-2916 \$ |
| Burbank | CA | 818/846-9235 BV | | 818/242-8555 BV |
| Burlingame | CA | 415/952-4757 BV | 415/591-0726 BV | |
| Canoga Park | CA | 818/789-9002 BV | 818/306-2984 BV | 818/715-0018 BV |
| Cathedral City | CA | 619/324-0920 BV | | |
| Chico | CA | 916/893-1876 BV | | |
| China Basin | CA | 415/952-4757 BV | | |
| Citrus Heights | CA | | | 916/448-0596 BV |
| Colton | CA | | 714/824-9000 BV | 714/785-0653 BV |
| Compton | CA | | 213/516-1007 BV | 213/435-9295 BV |
| Concord | CA | 415/685-6003 BV | 415/676-2834 BV | 415/674-0721 BV |
| Corona | CA | 714/371-2291 BV | | |
| Covina | CA | 714/594-4567 BV | 213/330-2227 BV | 714/623-6088 BV |
| Cupertino | CA | | | 408/293-9767 BV |
| Daly City | CA | | | 415/398-7533 BV> |
| Danville | CA | | 415/829-6705 BV | |

| City | St | Tymnet | Telenet | Uninet |
|--------------------|----|-----------------|-----------------------------|------------------|
| Davis | CA | 916/753-3722 BV | | |
| Diamond Bar | CA | 714/594-4567 BV | | |
| Downey | CA | | | 213/435-9295 BV |
| El Monte | CA | | | 818/242-8555 BV |
| El Segundo | CA | 213/640-1281 BV | | 213/215-3690 BV |
| Es Condido | CA | 619/480-0881 BV | 619/741-7756 BV | 619/743-2713 BV |
| Eureka | CA | 707/445-9671 BV | | |
| Fairfield | CA | 707/447-3436 BV | | |
| Fremont | CA | 415/490-7366 BV | | 415/424-0430 BV> |
| Fresno | CA | 209/442-4328 BV | 209/233-0961 BV | 209/225-1354 BV |
| Fullerton | CA | | | 714/955-3611 BV |
| Garden Grove | CA | | 714/898-9820 BV | |
| Glendale | CA | | 818/507-0909 BV | 818/242-8555 BV |
| Hayward | CA | 415/430-2900 BV | 415/881-1382 BV | 415/581-4582 BV |
| Hollywood | CA | | | 213/748-0203 BV |
| Huntington Bch | CA | | | 714/955-3611 BV |
| Inglewood | CA | | | 213/215-3690 BV |
| Lancaster | CA | 805/945-8751 BV | | |
| Long Beach | CA | 213/435-0900 BV | 213/548-6141 BV | 213/435-9295 BV |
| Los Altos | CA | | | 415/424-0430 BV |
| Los Angeles | CA | 213/629-3001 S | 213/689-9040 | 213/748-0203 BV |
| Los Angeles | CA | 213/623-8500 V | 213/624-2251 BV | 213/748-0142 \$ |
| Los Angeles | CA | 213/587-0030 BV | 213/937-3580 BV | |
| Los Angeles | CA | 213/587-7514 BV | | |
| Mantea | CA | 805/985-7843 BV | | |
| Marina Del Ray | CA | 213/640-1281 BV | 213/306-2984 BV | |
| Mar Vista | CA | 213/640-1281 BV | | 213/748-0203 BV |
| Mar Vista | CA | | | 213/748-0142 \$ |
| Merced | CA | 209/384-7227 BV | | |
| Mission Hills | CA | 213/365-0853 BV | | |
| Mission Hills | CA | 213/789-9002 BV | | |
| Modesto | CA | 209/527-0150 BV | 209/576-2852 BV | 209/523-6033 BV |
| Monrovia | CA | | | 818/242-8555 BV |
| Monterey | CA | 408/373-4611 BV | 408/375-2675 BV | 408/373-1601 BV |
| Mountain View | CA | 408/980-8100 BV | 415/856-9995 BV | 415/424-0430 BV |
| Napa | CA | 707/257-2656 BV | | |
| Neuport - Beach | CA | 714/966-0313 BV | 714/558-6061 | 714/955-3611 BV |
| | CA | 714/852-8141 \$ | 714/558-7078 BV | |
| Northridge | CA | 213/789-9002 BV | | |
| Norwalk | CA | 213/435-0900 BV | 213/404-2237 BV | 213/435-9295 BV |
| Oakland | CA | 415/430-2900 BV | 415/836-4911 BV | 415/652-3566 BV |
| Oakland | CA | | | 415/989-2916 \$ |
| Oakland | CA | 415/633-1896 \$ | | |
| Oceanside | CA | | 619/430-0613 BV | 619/722-4137 BV |
| Ontario | CA | 714/594-4567 BV | | 714/623-6088 BV |
| Oxnard | CA | 805/486-4811 BV | 805/656-6760 BV | 805/487-4971 BV |
| Pacheco | CA | 415/685-6003 BV | | |
| Palm Springs | CA | 619/324-0920 BV | | |
| Palo Alto | CA | 415/361-8701 BV | 415/856-9995 BV | 415/424-0430 BV |
| Pasadena | CA | 818/308-1800 BV | 818/507-0909 BV | 818/242-8555 BV |
| Pleasant Hill | CA | 415/682-6003 BV | | 415/674-0721 BV |
| Pleasanton | CA | 415/462-8900 BV | | |
| Pomona | CA | 714/594-4567 BV | | 714/623-6088 BV |
| Rancho-Bernardo | CA | 619/485-1990 BV | | |
| Redding | CA | 916/241-4820 BV | | |
| Redwood City | CA | 415/366-1092 BV | 415/366-1092 BV | 415/592-4140 BV |
| Redwood City | CA | 415/361-8701 \$ | | |
| Richmond | CA | | | 415/652-3566 BV |
| Riverside | CA | 714/370-1200 BV | 714/824-9000 BV | 714/785-0653 BV |
| Sacramento | CA | 916/447-7434 \$ | 916/448-6262 BV | 916/448-0596 BV |
| Salinas | CA | 408/443-4333 BV | 408/443-4940 BV | 408/758-5811 BV |
| San Bernardino | CA | | 714/824-9000 BV | 714/359-5732 BV |
| San Carlos | CA | | 415/591-0726 BV | 415/592-4140 BV |
| San Clemente | CA | 714/492-0165 BV | | |
| San Diego | CA | 619/296-3370 BV | 619/231-1922 | 619/458-1250 BV |
| San Diego | CA | 619/296-8747 \$ | 619/233-0233 BV | |
| San Fernando | CA | 213/365-0853 | | 213/215-3690 BV |
| San Francisco | CA | 415/974-1300 BV | 415/362-6200 | 415/398-7533 BV |
| San Francisco | CA | 415/543-0691 \$ | 415/956-5777 BV | 415/989-2916 \$ |
| San Jose/Cupertino | CA | 408/980-8100 BV | 408/294-9119 BV | 408/293-9767 BV |
| " " | CA | 408/257-0593 | CCITT-FOR OVERSEAS USE ONLY | |
| San Leandro | CA | | | 415/652-3566 BV |
| San Luis Obispo | CA | 805/546-8541 BV | | |
| San Mateo | CA | | | 415/592-4140 BV |
| San Pedro | CA | 213/435-0900 BV | 213/548-6141 BV | 213/435-9295 BV |
| San Rafael | CA | 415/492-9320 BV | 415/492-0752 BV | 415/398-7533 BV |
| | CA | | | 415/989-2916 \$ |
| San Ramone | CA | | 415/829-6705 BV | |

| City | St | Tymnet | Telenet | Uninet |
|------------------|----|-------------------|-------------------|-----------------|
| Santa Ana | CA | 714/966-8313 BV | 714/558-6061 | 714/955-3611 BV |
| Santa Ana | CA | | 714/558-7078 BV | |
| Santa Barbara | CA | 805/963-9241 BV | 805/682-5361 BV | 805/963-1467 BV |
| Santa Barbara | CA | 805/963-9251 BV | | |
| Santa Barbara | CA | 805/963-8731 BV | | |
| Santa Cruz | CA | 408/475-0981 BV | 408/429-6937 BV | |
| Santa Clara | CA | 408/986-0646 BV | | 408/293-9767 BV |
| Santa Monica | CA | 213/449-1281 BV | 213/306-2984 BV | 213/215-3690 BV |
| Santa Rosa | CA | 707/527-6100 BV | 707/578-4447 BV | 707/578-1108 BV |
| Sherman Oaks | CA | 213/821-2257 BV | | |
| Stockton | CA | 209/467-0601 BV | 209/473-2056 BV | 209/462-9981 BV |
| Sunnyvale | CA | | | 408/293-9767 BV |
| Thousand Oaks | CA | 805/496-3473 BV | | |
| Torrance | CA | | | 213/215-3690 BV |
| Vallejo | CA | 707/644-8973 BV | | 707/642-1247 BV |
| Van Nuys | CA | 818/789-9002 BV | | 818/715-0018 BV |
| Ventura | CA | 805/486-4811 BV | 805/656-6760 BV | 805/487-4971 BV |
| Vernon | CA | 213/626-2400 BV | | |
| Vernon | CA | 213/489-3430 BV | | |
| Vernon | CA | 213/623-8500 BV | | |
| Visalia | CA | 209/625-5523 BV | | |
| Vista | CA | 619/941-6700 BV | | |
| Walnut Creek | CA | 415/938-9550 BV | | 415/674-0721 BV |
| Waterbury | CA | | | 203/597-0275 BV |
| West Covina | CA | 818/594-4567 BV | | 818/369-8508 BV |
| Whittler | CA | | | 213/748-0203 BV |
| Whittler | CA | | | 213/748-0412 \$ |
| Woodland Hills | CA | | 818/887-3160 BV | 213/932-0116 BV |
| Woodside | CA | | | 415/965-2701 BV |
| Arvada | CO | | | 303/363-9097 BV |
| Arvada | CO | | | 303/363-0898 \$ |
| Aurora | CO | | | 303/363-9097 BV |
| Aurora | CO | | | 303/363-0898 \$ |
| Boulder | CO | 303/830-9210 BV | | 303/363-9097 BV |
| Boulder | CO | | | 303/363-0898 \$ |
| Colorado Springs | CO | 303/590-1003 BV | 303/635-5361 BV | 303/363-5104 BV |
| Copper Mountain | CO | 303/968-6560 BV | | |
| Denver | CO | 303/830-9210 BV | 303/337-6000 | 303/363-9097 BV |
| Denver | CO | 303/832-3447 \$ | 303/337-6060 BV | 303/363-0898 \$ |
| Fort Collins | CO | 303/221-0687 BV | 303/493-9131 BV | |
| Grand Junction | CO | | | 303/241-2911 BV |
| Greeley | CO | 303/356-0425 BV | | |
| Lakewood | CO | | | 303/363-9097 BV |
| Lakewood | CO | | | 303/363-0898 BV |
| Pueblo | CO | 303/543-3313 BV | 303/542-4053 BV | |
| Bloomfield | CT | 203/242-1986 BV | | 203/247-7723 BV |
| Bridgeport | CT | 203/367-6021 BV | 203/335-5055 BV | 203/367-7476 BV |
| Cheshire | CT | | | 203/271-1170 BV |
| Danbury | CT | 203/797-9539 BV | 203/794-9075 BV | 203/794-9298 BV |
| Darien | CT | 203/965-0000 BV | | |
| Greenwich | CT | | | 203/325-4414 BV |
| Hartford | CT | 203/242-7140 BV | 203/247-9479 BV | 203/247-7723 BV |
| Meriden | CT | 203/634-9249 BV | | 203/271-1170 BV |
| Middletown | CT | 203/634-9249 BV | | |
| Milford | CT | | | 203/367-7476 BV |
| New Haven | CT | 203/773-0082 BV | 203/624-5954 BV | 203/777-8376 BV |
| New London | CT | 203/443-6997 BV | | 203/447-2132 BV |
| North Haven | CT | | | 203/777-8376 BV |
| Norwalk | CT | | | 203/866-7510 BV |
| Norwich | CT | 203/444-1709 BV | | 203/447-2132 BV |
| Stamford | CT | 203/965-0000 BV | 203/348-0787 BV | 203/325-4414 BV |
| Stamford | CT | 203/327-2974 \$ | | |
| Waterbury | CT | 203/755-5994 BV | 203/753-4512 BV | 203/597-0275 BV |
| West Hartford | CT | | | 203/247-7723 BV |
| Westport | CT | 203/226-5250 BV | | |
| Washington | DC | 703/691-8200 BV | 202/429-7896 | 301/347-3337 BV |
| Washington | DC | 703/691-8390 BV | 202/429-7800 BV | 202/459-0280 \$ |
| Washington* | DC | *301/480-3150 A * | *301/480-3150 A * | |
| Washington* | DC | *301/480-3129 V * | *301/480-3129 V * | |
| Dover | DE | 302/678-0449 BV | | |
| Wilmington | DE | 302/652-2060 BV | 302/454-7710 BV | 302/999-8915 BV |
| Boca Raton | FL | 305/395-7330 BV | 305/368-8300 BV | 305/368-1233 BV |
| Bradon | FL | | | 813/955-9063 BV |
| Cape Canaveral | FL | | | 305/768-0031 BV |
| Daytona Beach | FL | 904/255-4783 BV | 904/255-2629 BV | 904/257-5768 BV |
| Clearwater | FL | 813/796-2166 BV | | 813/576-0280 BV |
| Ft Lauderdale | FL | 305/463-0882 BV | 305/764-4505 BV | 305/467-6504 BV |
| Ft Myers | FL | 813/936-4221 BV | 813/337-0308 BV | 813/334-1188 BV |
| Ft Pierce | FL | 305/466-5661 BV | | |

| City | St | Tymnet | Telenet | Uninet |
|-----------------|----|-----------------|-----------------|-----------------|
| Holly Hill | FL | | 904/255-2629 BV | |
| Gainesville | FL | 904/378-4576 BV | 904/377-3005 BV | 904/373-0522 BV |
| Jacksonville | FL | 904/721-8100 BV | 904/353-1818 BV | 904/356-1115 BV |
| Lakeland | FL | 813/665-8582 BV | 813/688-4366 BV | |
| Melbourne | FL | 305/676-4336 BV | 305/676-1393 BV | 305/768-0031 BV |
| Merritt Isle | FL | 305/459-0671 BV | | |
| Miami | FL | 305/624-7900 BV | 305/372-0230 BV | 305/591-1254 BV |
| Miami | FL | 305/624-0304 \$ | | |
| Naples | FL | | | 813/263-4522 BV |
| Ocala | FL | 904/351-0305 BV | | |
| Orlando | FL | 305/841-0020 BV | 305/422-4088 BV | 305/894-4815 BV |
| Panama City | FL | 904/769-9446 BV | | |
| Pensacola | FL | 904/477-3344 BV | 904/432-1335 BV | |
| Pompano Beach | FL | | 305/941-5445 BV | |
| Rivera Beach | FL | | | 305/863-9660 BV |
| St Petersburg | FL | 813/796-2166 BV | 813/323-4026 BV | 813/576-0280 BV |
| St Petersburg | FL | 813/796-2166 BV | | |
| Sarasota | FL | 813/365-6980 BV | 813/923-4563 BV | 813/955-9063 BV |
| Sarasota | FL | 813/365-3526 A | | |
| Tahassee | FL | 904/878-2267 BV | 904/681-1902 BV | 904/681-0486 BV |
| Tampa | FL | 813/933-6210 \$ | 813/224-9920 BV | 813/273-9160 BV |
| Tampa | FL | 813/932-7070 BV | | |
| West Palm Beach | FL | 305/471-9310 BV | 305/833-6691 BV | 305/863-9660 BV |
| Winterhaven | FL | 813/665-8582 BV | | |
| Albany | GA | 912/833-2246 BV | | 912/439-1229 BV |
| Athens | GA | 404/548-7006 BV | 404/549-4524 BV | |
| Atlanta/ | GA | 404/446-0270 BV | 404/577-8911 | 404/321-5935 BV |
| Norcross | GA | 404/446-1508 \$ | 404/523-0834 BV | 404/321-1828 \$ |
| Augusta/ | GA | 404/722-7967 BV | 404/724-2752 BV | 404/724-1279 BV |
| Martinez | GA | | | |
| Columbus | GA | 404/327-0597 BV | 404/571-0556 BV | 404/576-5709 BV |
| Macon | GA | 912/746-2739 BV | 912/741-1011 BV | |
| Marietta | GA | 404/424-0025 BV | | 404/321-5935 BV |
| Marietta | GA | | | 404/256-3384 \$ |
| Rome | GA | 404/291-1000 BV | | |
| Savannah | GA | 912/232-6751 BV | 912/236-2605 BV | 912/233-9117 BV |
| Honolulu | HI | 808/545-7610 BV | 808/524-8110 | |
| Honolulu | HI | 808/528-5300 \$ | 808/524-8380 A | |
| Boise | ID | 208/343-0404 BV | 208/343-0611 BV | |
| Idaho Falls | ID | 208/523-7800 BV | | |
| Lewiston | ID | | 208/743-0099 BV | |
| Pocatello | ID | 208/233-2501 BV | | |
| Arlington Hghts | IL | | | 312/663-9600 BV |
| Arlington Hghts | IL | | | 312/922-3140 \$ |
| Aurora | IL | 312/844-1800 BV | 312/859-8483 BV | 312/663-9600 BV |
| Aurora | IL | | | 312/922-3140 \$ |
| Belleville | IL | 618/277-9806 A | | |
| Bloomington | IL | 309/829-2802 BV | 309/827-7000 BV | 309/827-4681 BV |
| Champaign | IL | 217/356-7552 BV | 217/384-6428 BV | 217/356-0827 BV |
| Chicago | IL | 312/922-6571 \$ | 312/938-0500 | 312/663-9600 BV |
| Chicago | IL | | | 312/922-3140 \$ |
| Chicago | IL | 312/922-4601 BV | 312/938-0600 BV | 312/922-3140 \$ |
| Danville | IL | 217/431-3133 BV | | |
| Decatur | IL | 217/429-5995 BV | 217/422-0835 BV | 217/428-2445 BV |
| Downers Grove | IL | 312/790-4400 BV | | |
| East St. Louis | IL | | 314/421-4990 BV | 314/423-9120 BV |
| Elgin | IL | | | 312/663-9600 BV |
| Evanston | IL | | | 312/663-9600 BV |
| Evanston | IL | | | 312/922-3140 \$ |
| Forest Park | IL | 312/771-9667 BV | | |
| Freepport | IL | 815/233-5585 BV | | |
| Glen Ellyn | IL | 312/790-4400 BV | | |
| Joliet | IL | 815/727-1019 BV | 815/726-0070 BV | 815/723-9004 BV |
| Kankakee | IL | 815/932-0850 BV | | |
| Lake Zurich | IL | 312/438-3771 BV | | |
| Libertyville | IL | 312/362-0820 BV | | |
| No. Chicago | IL | 312/362-0820 BV | | |
| Normal | IL | | | 309/827-4681 BV |
| Oak Park | IL | | | 312/663-9600 BV |
| Oak Park | IL | | | 312/922-3140 \$ |
| Peoria | IL | 309/637-5961 BV | 309/637-8570 BV | 309/673-9103 BV |
| Rockford | IL | 815/398-6090 BV | 815/965-0400 BV | 815/965-4240 BV |
| Rock Island | IL | 309/794-0731 BV | | 309/788-0871 BV |
| St. Charles | IL | 312/859-1143 BV | | |
| Skokie | IL | | | 312/663-9600 BV |
| Skokie | IL | | | 312/922-3140 \$ |
| Springfield | IL | 217/525-8025 BV | 217/753-1373 BV | 217/544-0728 BV |
| Urbana | IL | 217/356-7552 BV | 217/384-6428 BV | 217/356-0827 BV |
| Waukegan | IL | | | 312/663-9600 BV |
| Waukegan | IL | | | 312/922-3140 \$ |

| City | St | Tymnet | Telenet | Uninet |
|-----------------|----|------------------|------------------|-----------------|
| Bloomington | IN | 812/332-3051 BV | 812/332-1344 BV | |
| Evansville | IN | 812/464-8181 BV | 812/424-7693 BV | 812/424-0045 BV |
| Ft Wayne | IN | 219/422-2581 BV | 219/426-2268 BV | 219/422-2491 BV |
| Gary/Hammond | IN | 219/885-0002 BV | 219/882-8800 BV | 219/882-1661 BV |
| Highland | IN | 219/885-0002 BV | | |
| Indianapolis | IN | 317/257-3461 A | 317/635-9630 | 317/236-9638 BV |
| Indianapolis | IN | 317/632-6408 | 317/634-5708 BV | |
| Kokomo | IN | 317/457-7257 A | 317/455-2460 BV | |
| Lafayette | IN | 317/423-4544 BV | 317/742-1165 BV | 317/743-5110 BV |
| Marion | IN | 317/662-0091 A | | |
| Merrillville | IN | 219/769-7254 | | |
| Mishawka | IN | | | 219/232-2247 BV |
| Munice | IN | 317/288-2477 A | 317/289-5068 BV | |
| Osceola | IN | | | 219/232-2247 BV |
| South Bend | IN | 219/234-5005 BV | 219/233-7104 BV | 219/232-2247 BV |
| Terre Haute | IN | 812/232-3605 BV | 812/232-5329 BV | |
| Ames | IA | | | 515/233-3610 BV |
| Cedar Falls | IA | | | 319/232-9252 BV |
| Cedar Rapids | IA | 319/363-7514 BV | 319/364-0911 BV | 319/366-2794 BV |
| Council Bluffs | IA | | | 402/341-2158 BV |
| Davenport | IA | 309/794-0731 BV | 319/324-2445 BV | 309/788-0871 BV |
| Des Moines | IA | 515/277-7752 BV | 515/288-4403 BV | 515/244-5838 BV |
| Dubuque | IA | 319/556-8263 BV | | 319/556-2051 BV |
| Iowa City | IA | 319/354-7371 BV | 319/351-1421 BV | 319/351-0252 BV |
| Marshtown | IA | 515/753-0667 BV | | |
| Sioux City | IA | 712/255-3834 BV | | 712/258-9219 BV |
| Waterloo | IA | 319/233-9227 BV | | 319/232-9252 BV |
| Kansas City | KS | 913/384-0055 BV | | 816/474-1129 BV |
| Kansas City | KS | | | 816/221-6722 \$ |
| Laurence | KS | 913/843-4870 BV | | |
| Leavenworth | KS | 913/682-2660 BV | | |
| Manhattan | KS | 913/776-0121 BV | | |
| Salina | KS | 913/825-1586 BV | | |
| Shawnee Mission | KS | 913/384-1544 BV | | 816/474-1129 BV |
| Shawnee Mission | KS | | | 816/221-6722 \$ |
| Topeka | KS | 913/234-3070 BV | 913/233-9880 BV | 913/273-1081 BV |
| Wichita | KS | 316/681-0832 BV | 316/262-5669 BV | 316/264-9505 BV |
| Bowling Green | KY | 502/782-0436 BV | 502/782-7941 BV | |
| Frankfort | KY | | 502/875-4654 BV | |
| Lexington | KY | 606/253-3463 BV | 606/233-0312 BV | 606/252-5414 BV |
| Louisville | KY | 502/499-7110 BV | 502/589-5580 BV | 502/589-5837 BV |
| Owensboro | KY | 502/685-1318 BV | | |
| Alexandria | LA | 318/445-2694 BV | | |
| Baton Rouge | LA | 504/924-5102 BV | 504/343-0753 BV | 504/293-9503 BV |
| Bossier City | LA | | | 318/221-0769 BV |
| Kenner | LA | | | 504/834-7113 BV |
| Lafayette | LA | 318/237-9500 BV | 318/234-1095 BV | 318/232-4743 BV |
| Lake Charles | LA | 318/494-1991 BV | | 318/494-0698 BV |
| Metairie | LA | | | 504/834-7113 BV |
| Monroe | LA | 318/322-4109 BV | 318/387-6330 BV | |
| New Orleans | LA | 504/522-1370 BV | 504/524-4094 BV | 504/834-7113 BV |
| New Orleans | LA | 504/525-2014 \$ | | |
| Shreveport | LA | 318/688-5840 BV | 318/221-5833 BV | 318/221-0769 BV |
| Slidell | LA | 504/649-6050 BV | | |
| Auburn | ME | 207/786-0645 BV | | |
| Augusta | ME | | 207/622-3123 BV | 207/623-4065 BV |
| Bangor | ME | 207/989-2831 BV | | 207/947-5261 BV |
| Brewer | ME | 207/989-2831 BV | | 207/989-2981 BV |
| Lewiston | ME | 207/786-5390 BV | | |
| Portland | ME | 207/775-5971 BV | 207/761-4000 BV | 207/773-3815 BV |
| Aberdeen | MD | 301/272-3800 BV | | |
| Annapolis | MD | 301/263-2344 BV | 301/224-8550 BV | |
| Baltimore | MD | 301/528-9296 BV | 301/962-5010 | 301/366-3102 BV |
| Baltimore | MD | | 301/727-6060 BV | |
| Bethesda* | MD | 301/770-1680 | 202/429-7896 | 301/731-2051 BV |
| Rockville* | MD | | 202/429-7800 BV | 301/459-0280 \$ |
| Bethesda* | MD | *301/480-3150 a* | *301/480-3150 A* | |
| Rockville* | MD | *301/480-3129 v* | *301/480-3129 V* | |
| Cumberland | MD | 301/777-9320 BV | | |
| Dundalk | MD | | | 301/366-3102 BV |
| Frederick/ | MD | 301/293-1072 BV | | |
| Hagerstown | MD | | | |
| Landover | MD | | | 301/731-2051 BV |
| Landover | MD | | | 301/459-0280 \$ |
| Silver Spring | MD | | | 301/731-2051 BV |
| Silver Spring | MD | | | 301/459-0280 \$ |
| Touson | MD | | | 301/366-3102 BV |
| Andover | MA | | | 617/475-4012 BV |
| Arlington | MA | | | 617/890-1808 BV |
| Arlington | MA | | | 617/890-5436 \$ |

| City | St | Tymnet | Telenet | Uninet |
|------------------|----|-----------------|-----------------|-----------------|
| Attleboro | MA | 617/226-4471 BV | | 617/890-5436 \$ |
| Boston | MA | 617/292-1900 BV | 617/292-0600 | 617/890-1808 BV |
| Boston | MA | 617/357-5052 \$ | 617/292-0662 BV | 617/890-5436 \$ |
| Brockton | MA | 617/584-6873 BV | | 617/580-2551 BV |
| Brookline | MA | | | 617/890-1808 BV |
| Brookline | MA | | | 617/890-5436 \$ |
| Cambridge | MA | | | 617/890-1808 BV |
| Cambridge | MA | | | 617/890-5436 \$ |
| Fall River | MA | 617/675-1750 BV | | |
| Falmouth | MA | | 617/540-7500 BV | |
| Fitchburg | MA | 617/537-6451 BV | | |
| Framingham | MA | | 617/879-6798 BV | |
| Holyoke | MA | | | 413/733-4141 BV |
| Lawrence | MA | 617/689-0186 BV | | 617/794-9198 BV |
| Leominster | MA | 617/537-6451 BV | | |
| Lewiston | MA | 207/782-4101 BV | | |
| Lexington | MA | | 617/863-1550 BV | 617/890-1808 BV |
| Lexington | MA | | | 617/890-5436 \$ |
| Lowell | MA | 617/459-0694 BV | | 617/937-0087 BV |
| Lynn/Salem | MA | 617-599-0015 BV | | 617/890-1808 BV |
| Medford | MA | | | 617/890-1808 BV |
| Medford | MA | | | 617/890-5436 \$ |
| Natick | MA | | | 617/872-0410 BV |
| New Bedford | MA | 617/999-4521 BV | | |
| Newton | MA | | | 617/890-1808 BV |
| Newton | MA | | | 617/890-5436 \$ |
| Northampton | MA | | | 413/586-4941 BV |
| Pittsfield | MA | 413/442-6965 BV | | |
| Framingham | MA | 617/620-1264 BV | | |
| Quincy | MA | | | 617/890-1808 BV |
| Quincy | MA | | | 617/890-5436 \$ |
| Somerville | MA | | | 617/890-1808 BV |
| Somerville | MA | | | 617/890-5436 \$ |
| Springfield | MA | 413/781-6830 BV | 413/781-3811 BV | 413/733-4141 BV |
| Taunton | MA | 617/822-7799 BV | | 617/580-2551 BV |
| Waltham | MA | | | 617/890-1808 BV |
| " | MA | | | 617/890-5436 \$ |
| Woburn | MA | 617/935-2057 BV | | |
| Worcester | MA | 617/791-9000 BV | 617/755-4740 BV | 617/791-9752 BV |
| Woods Hole | MA | | 617/540-7500 BV | |
| Ann Arbor | MI | 313/662-8282 A | 313/996-5995 BV | 313/761-5402 BV |
| Battle Crk | MI | 616/962-1851 BV | 616/968-0929 BV | 616/965-0919 BV |
| Benton Hrbr/ | MI | | | |
| St. Joe | MI | 616/925-3134 BV | | |
| Cadillac | MI | 616/775-3429 BV | | |
| Dearborn | MI | | | 313/884-7017 BV |
| Detroit | MI | 313/963-3460 BV | 313/964-5538 | 313/884-7017 BV |
| Detroit | MI | | 313/964-2988 BV | |
| Flint | MI | 313/238-8917 BV | 313/235-8517 BV | 313/239-9191 BV |
| Freeland | MI | 517/695-6751 BV | | |
| Grand Rapids | MI | 616/459-2304 BV | 616/774-0966 BV | 616/774-0270 BV |
| Gross Pointe | MI | | | 313/884-7017 BV |
| Gulfport | MI | 601/868-0109 BV | | |
| Jackson | MI | 517/782-0584 BV | 517/782-8111 BV | 517/782-9335 BV |
| Kalamazoo | MI | 616/388-2130 BV | 616/345-3088 BV | 616/388-7300 BV |
| Lansing | MI | 517/482-5721 BV | 517/484-0062 BV | 517/484-3116 BV |
| Livonia | MI | | | 313/884-7017 BV |
| Manistee | MI | 616/723-6296 BV | | |
| Midland | MI | 517/631-4721 BV | | |
| Muskegon | MI | 616/725-8136 BV | | 616/739-4316 BV |
| Plymouth | MI | 313/451-2400 BV | | 313/761-5402 BV |
| Pontiac | MI | | | 313/332-2204 BV |
| Port Huron | MI | 313/984-5650 BV | | |
| Royal Oak | MI | | | 313/884-7017 BV |
| Saginaw | MI | 517/753-9921 BV | 517/790-5166 BV | |
| Southfield | MI | 313/424-8024 BV | 313/827-4710 BV | 313/884-7017 BV |
| St. Clair Shores | MI | | | 313/884-7017 BV |
| St. Joseph | MI | 616/925-3134 BV | | |
| Sterling Hgts. | MI | | | 313/884-7017 BV |
| Taylor | MI | | | 313/884-7017 BV |
| Traverse City | MI | 616/947-0050 BV | 616/946-2121 BV | |
| Warren | MI | | 313/575-9152 BV | 313/884-7017 BV |
| Westland | MI | | | 313/884-7017 BV |
| Wyoming | MI | | | 616/774-0270 BV |
| Ypsilanti | MI | | | 313/761-5402 BV |
| Bloomington | MN | | | 612/377-7041 BV |
| Duluth | MN | 218/722-7441 BV | 218/722-1719 BV | |
| Mankato | MN | 507/625-9481 BV | | |
| Minneapolis | MN | 612/333-2749 BV | 612/341-2459 BV | |
| Minneapolis | MN | 612/332-4024 \$ | | |

| City | St | Tymnet | Telenet | Uninet |
|--------------------------|----|-----------------|-----------------|-----------------|
| Rochester | MN | 507/289-5599 BV | 507/282-5917 BV | |
| Saint Cloud | MN | 612/252-9093 BV | | 612/253-1298 BV |
| Saint Paul | MN | | | 612/377-7041 BV |
| Jackson | MS | 601/944-0860 BV | 601/969-0036 BV | 601/932-5901 BV |
| Jackson | MS | 601/355-9741 BV | | |
| Meridian | MS | 601/693-8216 BV | | |
| Pascagoula | MS | 601/769-6502 | | |
| Pascagoula | MS | 601/769-6620 BV | | |
| Pascagoula | MS | 601/769-6673 A | | |
| Vicksburg | MS | 601/638-1551 BV | | |
| Pearl | MS | | | 601/932-5901 BV |
| Bridgeton | MO | 314/731-8002 BV | | 314/423-9120 BV |
| Columbia | MO | 314/874-2771 BV | 314/449-7947 BV | 314/449-7231 BV |
| Creve Coeur | MO | | | 314/423-9120 BV |
| Florissant | MO | | | 314/423-9120 BV |
| Independence | MO | | | 816/474-1129 BV |
| Independence | MO | | | 816/221-6722 \$ |
| Jefferson City | MO | 314/634-8296 A | 314/634-5178 BV | 314/634-4680 BV |
| Joplin | MO | 417/782-3037 BV | | |
| Kansas City | MO | 913/384-1544 BV | 816/221-9900 BV | 816/474-1129 BV |
| Kansas City | MO | | | 816/221-6722 \$ |
| Liberty | MO | | | 816/474-1129 BV |
| Liberty | MO | | | 816/221-6722 \$ |
| Rolla | MO | 314/364-2084 BV | | |
| Springfield | MO | 417/869-4903 BV | 417/864-4814 BV | |
| St. Joseph | MO | 816/232-1897 BV | | |
| St. Louis | MO | 314/731-8002 BV | 314/421-4990 BV | 314/423-9120 BV |
| St. Louis | MO | 314/621-4660 A | | |
| Billings | MT | 406/252-4880 BV | 406/245-7649 BV | 406/248-4730 BV |
| Bozeman | MT | 406/586-7638 BV | | |
| Butte | MT | 406/494-6615 BV | | |
| Great Fs | MT | 406/727-9510 BV | | |
| Helena | MT | | 406/443-0000 BV | |
| Missoula | MT | 406/728-2415 BV | 406/721-5900 BV | |
| Grand Island | NE | 308/382-4075 BV | | |
| High Point | NE | 919/884-4364 BV | | |
| Lincoln | NE | 402/474-7481 BV | 402/475-4964 BV | 402/474-7734 BV |
| Omaha | NE | 402/393-0903 BV | 402/341-7733 BV | 402/341-2158 BV |
| Carson City | NV | 702/885-8411 BV | | |
| Las Vegas | NV | 702/293-0300 BV | 702/737-6861 BV | 702/362-2971 BV |
| Reno | NV | 702/885-8411 BV | 702/827-6900 BV | 702/786-7503 BV |
| Concord | NH | | 603/224-1024 BV | 603/224-8324 BV |
| Durham | NH | 603/868-1502 BV | | |
| Hanover | NH | 603/643-1457 BV | | 603/643-6631 BV |
| Manchester | NH | 603/623-0409 BV | 603/668-1420 BV | 603/699-9632 BV |
| Merrimack | NH | | | 603/890-3614 BV |
| Nashua | NH | 603/882-0435 BV | 603/889-8618 BV | 603/880-3614 BV |
| Portsmouth | NH | | 603/431-2302 BV | |
| Salem | NH | 603/893-6200 BV | | |
| Atlantic City | NJ | 609/345-4050 BV | 609/348-0561 BV | 609/345-1001 BV |
| Bayonne | NJ | | | 201/623-7863 BV |
| Bloomfield | NJ | | | 201/226-0220 BV |
| Branchburg | NJ | | | 201/722-2261 BV |
| Camden | NJ | | | 609/338-1177 BV |
| Carteret | NJ | | | 201/750-9190 BV |
| Cherry Hill | NJ | 609/665-5600 BV | | 609/338-1177 BV |
| Eatontown/ Red Bank | NJ | 201/758-9100 BV | | |
| Elizabeth | NJ | | | 201/623-7863 BV |
| Englewood Cliffs | NJ | 201/567-9841 BV | | |
| Fords | NJ | | | 201/750-9190 BV |
| Ft. Monmouth | NJ | 201/542-2180 BV | | |
| Hackensack | NJ | | | 201/623-7863 BV |
| Irvington | NJ | | | 201/623-7863 BV |
| Jersey City | NJ | 201/432-4907 BV | 201/623-6818 | 201/623-7863 BV |
| Jersey City | NJ | | 201/623-0469 BV | |
| Long Branch/ Red Bank | NJ | 201/758-9100 BV | | |
| Lyndhurst | NJ | 201/460-0100 | | |
| Lyndhurst | NJ | 201/460-0180 A | | |
| Marlton | NJ | | 609/596-1500 BV | |
| Merchantville | NJ | | | 609/665-8768 BV |
| Moorestown | NJ | 609/665-5600 BV | | |
| Morristown | NJ | 201/539-1222 BV | 201/455-0275 BV | 201/993-8018 BV |
| Newark/ Union City | NJ | 301/824-3044 BV | 201/623-6818 | 201/623-7863 BV |
| New Brunswick | NJ | 201/483-4878 A | 201/623-0469 BV | 201/599-2200 BV |
| New Brunswick | NJ | | 201/745-2900 BV | 201/572-5555 BV |
| Oradell | NJ | | | 201/599-2200 BV |
| Paramus | NJ | | | 201/599-2200 BV |

| City | St | Tymnet | Telenet | Uninet |
|-------------------------|----|-----------------|-----------------|-----------------|
| Parkridge | NJ | 201/391-7790 BV | | |
| Parsippany | NJ | | | 201/993-8018 BV |
| Passaic | NJ | | 201/778-5600 BV | 201/599-2200 BV |
| Patterson | NJ | | 201/684-7560 BV | 201/599-2200 BV |
| Pennsauken | NJ | 609/665-5600 BV | | 609/338-1177 BV |
| Perth Amboy | NJ | | | 201/750-9190 BV |
| Piscataway | NJ | 201/562-9700 BV | | 201/572-5883 BV |
| Princeton | NJ | 609/452-1018 BV | 609/799-5587 BV | 609/683-4550 BV |
| Rahway | NJ | 201/499-4747 BV | | |
| Red Bank | NJ | 201/758-9100 BV | | |
| Ridgewood | NJ | 201/391-7790 BV | | |
| River Edge | NJ | | | 201/599-2200 BV |
| Roseland | NJ | | | 201/226-0220 BV |
| Sayreville | NJ | | | 201/525-1850 BV |
| Somerville | NJ | | | 201/722-2261 BV |
| Trenton | NJ | 609/888-0803 BV | 609/989-8847 BV | 609/393-1930 BV |
| Union City | NJ | | | 201/623-7863 BV |
| Vineland | NJ | 609/696-7121 BV | | |
| Wayne | NJ | 201/785-4480 | | |
| Woodbridge | NJ | | | 201/750-9190 BV |
| Albuquerque | NM | 505/242-8344 BV | 505/243-4479 BV | 505/843-7981 BV |
| Las Cruces | NM | 505/524-1944 BV | | |
| Santa Fe | NM | 505/984-2941 BV | 505/473-3403 BV | |
| Albany | NY | 518/458-8300 BV | 518/465-8444 BV | 518/449-1772 BV |
| Babylon | NY | | | 516/422-4980 BV |
| Binghamton | NY | 607/724-4351 BV | 607/772-6642 BV | |
| Buffalo | NY | 716/845-6610 BV | 716/847-1440 BV | 716/856-6060 BV |
| Buffalo | NY | 716/852-1077 \$ | | |
| Cheektowaga | NY | | | 716/856-6060 BV |
| Corning | NY | 607/962-4481 BV | | |
| Deer Park | NY | | 516/667-5566 BV | |
| Elmira | NY | 607/737-9065 A | | |
| Greece | NY | | | 716/454-2510 BV |
| Hempstead | NY | 516/485-7422 BV | 516/292-0320 | |
| Hempstead | NY | | 516/292-3800 BV | |
| Huntington | NY | 516/420-1221 BV | | 516/351-1431 BV |
| Ithaca | NY | 607/257-6601 BV | | 607/272-0211 BV |
| Latham | NY | | | 518/449-1772 BV |
| Melville | NY | 516/420-1221 BV | | |
| Mineola | NY | 516/294-3120 BV | | 516/294-3950 BV |
| Mount Vernon | NY | | | 212/736-3660 BV |
| New Rochelle | NY | | | 914/328-7844 BV |
| New Rochelle | NY | | | 914/594-3881 \$ |
| New City | NY | 914/638-4167 BV | | |
| New York City | NY | 212/943-4700 BV | 212/620-6000 BV | 212/736-3660 BV |
| New York City | NY | 212/532-0437 | 212/741-8100 BV | 212/594-3881 \$ |
| New York City | NY | 212/689-8850 S | 212/785-3860 BV | |
| New York City | NY | 212/785-5400 BV | | |
| New York City | NY | 212/269-6985 BV | | |
| New York City | NY | 212/509-5400 \$ | | |
| Niagara Fs | NY | 716/285-2561 BV | | 716/285-1582 BV |
| Perington/ Pittsford | NY | 716/385-5817 BV | | |
| Plain View | NY | | | 516/933-6200 BV |
| Plattsburgh | NY | | 518/562-1890 BV | |
| Poughkeepsie | NY | 914/473-0401 BV | 914/473-2240 BV | 914/485-5430 BV |
| Rochester | NY | 716/385-5817 BV | 716/454-3430 | 716/454-2510 BV |
| Rochester | NY | | 716/454-1020 BV | |
| Ronkonkoma | NY | 516/467-5178 BV | | |
| Schnectady | NY | | | 518/449-1772 BV |
| Syracuse | NY | 315/437-7111 BV | 315/472-5583 BV | 315/471-6114 BV |
| Troy | NY | | | 518/449-1772 BV |
| Town/Tonawanda | NY | | | 716/856-6060 BV |
| Utica/Rome | NY | 315/797-7001 BV | 315/797-0920 BV | 315/733-2991 BV |
| White Plains | NY | 914/328-7730 BV | 914/328-9199 BV | 914/328-7844 BV |
| White Plains | NY | 914/761-9590 \$ | | |
| Yonkers | NY | | | 914/328-7844 BV |
| Asheville | NC | 704/253-3873 BV | 704/252-9134 BV | 704/258-8480 BV |
| Chapel Hill | NC | | | 919/549-8382 BV |
| Charlotte | NC | 704/374-0803 \$ | 704/332-3131 BV | 704/373-0794 BV |
| Charlotte | NC | 704/377-0521 A | | |
| Davidson | NC | | | 704/373-0794 BV |
| Durham | NC | 919/549-8952 BV | 919/549-8139 BV | 919/549-8382 BV |
| Fayetteville | NC | 919/485-8161 BV | 919/323-8165 BV | |
| Gastonia | NC | 704/866-9095 BV | | |
| Greensboro | NC | 919/273-0332 BV | 919/273-2851 BV | 919/272-6033 BV |
| Greenville | NC | 919/758-7854 BV | | |
| High Point | NC | 919/884-4364 BV | 919/889-2253 BV | 919/884-0068 BV |
| Raleigh | NC | 919/829-0536 BV | 919/549-8139 BV | 919/549-8382 BV |
| Research Tri. | NC | | 919/549-8139 BV | 919/549-8382 BV |

| City | St | Tymnet | Telenet | Uninet |
|-----------------|----|-----------------|-----------------|-----------------|
| Rocky Mountain | NC | 919/977-0617 BV | | |
| Wilmington | NC | 919/343-0770 BV | | 919/763-1426 BV |
| Winston/Salem | NC | 919/784-6080 BV | 919/725-2126 BV | 919/748-0965 BV |
| Bismarck | ND | 701/223-6839 BV | | 701/222-4844 BV |
| Fargo | ND | 701/280-0210 BV | | |
| Grand Forks | ND | 701/775-0531 BV | | |
| Mandan | ND | | 701/663-6499 BV | |
| Minot | ND | 701/838-1114 BV | | |
| Akron | OH | 216/535-1861 BV | 216/678-5115 BV | 216/434-0032 BV |
| Brook Park | OH | | | 216/771-7880 BV |
| Canton | OH | 216/455-0066 BV | 216/452-0903 BV | 216/452-2277 BV |
| Cincinnati | OH | 513/489-2100 BV | 513/579-0390 BV | 513/621-3433 BV |
| Cincinnati | OH | 513/489-3811 \$ | | |
| Cleveland | OH | 216/241-0024 BV | 216/575-1658 BV | 216/771-7880 BV |
| Columbus | OH | 614/221-1862 BV | 614/463-9340 BV | 614/461-6640 BV |
| Columbus | OH | 614/221-1616 \$ | | |
| Cuyahoga Falls | OH | | | 216/434-0032 BV |
| Dayton | OH | 513/223-3847 BV | 513/461-5254 BV | 513/461-0220 BV |
| Elyria | OH | | 216/323-5059 BV | |
| Euclid | OH | | 216/575-1658 BV | 216/771-7880 BV |
| Hamilton | OH | 513/894-1521 BV | | 513/621-3433 BV |
| Huntington | OH | 304/525-3202 BV | | |
| Kent | OH | | 216/678-5115 BV | 216/434-0032 BV |
| Kettering | OH | | | 513/461-0220 BV |
| Lima | OH | 419/224-2998 BV | | |
| Mansfield | OH | 419/526-6067 BV | | |
| Marysville | OH | 513/644-0096 A | | |
| Massillon | OH | | | 216/452-2277 BV |
| Parma | OH | | 216/575-1658 BV | 216/771-7880 BV |
| Springfield | OH | 513/324-3816 BV | | 513/324-1462 BV |
| Steubenville | OH | 614/283-2496 BV | | |
| Toledo | OH | 419/255-7790 BV | 419/255-7881 BV | 513/241-3514 BV |
| Warren | OH | 216/394-6529 BV | | |
| Youngstown | OH | 216/744-0943 BV | 216/743-1296 BV | 212/792-0410 BV |
| Ardmore | OK | 405/223-1607 BV | | |
| Bartlesville | OK | | | 918/336-9447 BV |
| Bethany | OK | | | 405/948-8513 BV |
| Britton | OK | | | 405/948-8513 BV |
| Enid | OK | 405/233-0054 BV | | |
| Lawton | OK | 405/355-2600 BV | | |
| Norman | OK | | | 405/948-8513 BV |
| Oklahoma City | OK | 405/495-8201 BV | 405/232-4546 BV | 405/948-8513 BV |
| Oklahoma City | OK | 405/495-9201 \$ | | |
| Stillwater | OK | | 405/624-1112 BV | |
| Tulsa | OK | 918/582-9653 BV | 918/584-3247 BV | 918/747-2431 BV |
| Toronto | ON | 416/364-9620 BV | | |
| Corvis | OR | | 503/754-9273 BV | |
| Eugene | OR | 503/746-0092 BV | 503/683-1460 BV | 503/683-0653 BV |
| Hood River | OR | | | 503/386-2902 BV |
| Medford | OR | 503/779-2902 BV | 503/779-6343 BV | |
| Portland | OR | 503/227-7181 \$ | 503/295-3028 BV | 503/287-4282 BV |
| Portland | OR | 503/226-0627 BV | | |
| Salem | OR | 503/585-0182 BV | 503/378-7712 BV | 503/362-8194 BV |
| Springfield | OR | 503/746-0092 BV | | |
| Allentown | PA | 215/865-6978 BV | 215/435-3330 BV | 215/437-4654 BV |
| Altoona | PA | 814/943-5848 BV | | |
| Bethlehem | PA | 215/865-6978 BV | | 215/437-4654 BV |
| Butler | PA | 412/285-9527 BV | | |
| Coatesville | PA | 215/838-0440 BV | | |
| Carlisle | PA | | | 717/243-4919 BV |
| Danville | PA | | | 717/275-1001 BV |
| Dowington | PA | 215/838-0300 BV | | |
| Easton | PA | | | 215/437-4654 BV |
| Erie | PA | 814/456-8501 BV | 814/899-2241 BV | |
| Fort Washington | PA | | | |
| Greensburg | PA | 412/838-7020 BV | | |
| Harrisburg | PA | 717/763-6481 BV | 717/236-6882 BV | 717/657-4954 BV |
| Hershey | PA | | | 717/657-4954 BV |
| Johnstown | PA | | 814/535-7576 BV | |
| King of Prussia | PA | 215/337-9900 BV | 215/337-4300 BV | 215/561-0454 BV |
| Lancaster | PA | 717/393-7732 BV | 717/393-2154 BV | 717/299-6603 BV |
| Latrobe | PA | 412/838-7020 BV | | |
| Levittown | PA | 215/736-0495 BV | | 215/561-0454 BV |
| Monroeville | PA | | | |
| New Castle | PA | 412/654-1530 BV | | |
| Penn Hills | PA | | | 412/931-9360 BV |
| Philadelphia | PA | 215/751-0700 BV | 215/574-0620 | 215/561-0454 BV |
| Philadelphia | PA | 215/567-4390 BV | 215/574-9462 BV | |
| Pittsburgh | PA | 412/765-1320 BV | 412/288-9950 | 412/931-9360 BV |
| Pittsburgh | PA | | 412/288-9974 BV | |

| City | St | Tymnet | Telenet | Uninet |
|-----------------|----|-----------------|-----------------|-----------------|
| Reading | PA | 215/372-4473 BV | 215/372-7116 BV | 215/375-6186 BV |
| Scranton | PA | 717/346-4516 BV | 717/961-5321 BV | 717/343-0734 BV |
| State College | PA | 814/221-1455 BV | | |
| Upper Darby | PA | | | 215/561-0454 BV |
| Vey Forge | PA | 215/666-9190 BV | | 215/561-0454 BV |
| Wilkes Barre | PA | 717/826-8991 BV | | 717/823-3519 BV |
| Williamsport | PA | | 717/494-1796 BV | |
| York | PA | 717/846-3900 BV | 717/846-6550 BV | 717/843-0965 BV |
| Middletown | RI | 401/849-1660 BV | | |
| Newport | RI | 401/849-8832 BV | | |
| Pawtucket | RI | | | 401/273-7900 BV |
| Providence/ | RI | 401/273-0200 BV | 401/751-7912 BV | 401/273-7900 BV |
| Warwick | RI | 401/274-7380 \$ | | 401/273-7900 BV |
| Woonsocket | RI | 401/765-2400 BV | | |
| Charleston | SC | 803/556-1040 BV | 803/722-4303 BV | 803/722-8311 BV |
| Columbia | SC | 803/254-7563 BV | 803/254-0695 BV | 803/256-5248 BV |
| Greenville | SC | 803/271-9213 BV | 803/233-3486 BV | 803/235-1654 BV |
| Spartanburg | SC | 803/582-0016 BV | 803/585-1637 BV | |
| Pierre | SD | | 605/224-6341 BV | |
| Rapid City | SD | 605/341-4007 BV | | 605/348-5099 BV |
| Scranton | SD | 605/335-0780 BV | | |
| Sioux Falls | SD | 605/335-0780 BV | 605/336-8593 BV | 605/338-6061 BV |
| Bristol | TN | | 615/968-1130 BV | 615/968-5360 BV |
| Chattanooga | TN | 615/265-1020 BV | 615/756-1161 BV | 615/267-2248 BV |
| Clarkesville | TN | 615/552-0193 BV | | |
| Jackson | TN | 901/424-2114 BV | | |
| Johnson City | TN | 615/928-1191 BV | | |
| Knoxville | TN | 615/690-1543 BV | 615/523-5500 BV | 615/523-5611 BV |
| Memphis | TN | 901/527-8006 BV | 901/521-0215 BV | 901/767-9431 BV |
| Nashville | TN | 615/885-3530 BV | 615/244-3702 BV | 615/256-6469 BV |
| Oakridge | TN | 615/482-9080 BV | | 615/481-3668 BV |
| Abilene | TX | 915/672-1363 BV | 915/676-9151 BV | 915/673-4020 BV |
| Amarillo | TX | 806/371-0031 BV | 806/372-6934 BV | 806/379-9211 BV |
| Arlington | TX | | | 214/263-1480 BV |
| Athens | TX | | | 214/677-2798 BV |
| Austin | TX | 512/444-3280 BV | 512/928-1130 BV | 512/473-2617 BV |
| Baytown | TX | 713/442-9746 BV | | 713/552-9659 BV |
| Baytown | TX | | | 713/961-9291 \$ |
| Beaumont | TX | | | 409/839-4731 BV |
| Brownsville | TX | 512/548-1331 BV | | 512/546-9665 BV |
| Bryan/ | TX | 409/779-0184 BV | 409/779-0173 BV | |
| College Station | TX | | | 409/882-0143 BV |
| Corpus Christie | TX | 512/883-8050 BV | 512/884-9030 BV | 512/241-5691 BV |
| Dallas | TX | 214/638-8888 BV | 214/748-0127 | 214/579-1288 BV |
| Dallas | TX | 214/630-5516 \$ | 214/748-6371 BV | 214/438-1256 BV |
| Dallas | TX | | | 214/579-1288 \$ |
| Denton | TX | 817/565-9273 BV | | |
| El Paso | TX | 915/533-1453 BV | 915/532-7907 BV | 915/533-7525 BV |
| Ft Worth | TX | 817/877-3630 BV | 817/332-4307 BV | 214/263-1480 BV |
| Galveston | TX | 409/765-7338 BV | 409/762-3308 BV | |
| Garland | TX | | | 214/438-1256 BV |
| Grand Prairie | TX | | | 214/263-1480 BV |
| Houston | TX | 713/556-6700 BV | 713/227-1018 BV | 713/552-9659 \$ |
| Houston | TX | 713/496-1332 \$ | | |
| Irving | TX | | | 214/438-1256 BV |
| Killeen | TX | 817/634-2810 BV | | |
| Lackland | TX | | | 512/647-0031 BV |
| Laredo | TX | 512/727-4626 BV | 512/724-1791 BV | 512/726-3017 BV |
| Leavenworth | TX | 913/682-2660 BV | | |
| Longview | TX | 214/236-0401 BV | 214/236-4205 BV | |
| Lubbock | TX | 806/797-0765 BV | 806/747-4121 BV | 806/747-0344 BV |
| Mc Allen | TX | 512/631-6101 BV | | 512/682-0881 BV |
| Midland | TX | 915/683-5645 BV | 915/561-9811 BV | 517/832-5148 BV |
| Nederland | TX | 409/722-4166 BV | 409/722-3720 BV | |
| Odessa | TX | 915/563-3745 BV | 915/561-9811 BV | 214/597-8113 BV |
| Pasadena | TX | | | 713/552-9659 BV |
| Pasadena | TX | | | 713/961-9291 \$ |
| Port Arthur | TX | 409/722-4166 BV | | 409/839-4731 BV |
| San Angelo | TX | 915/658-6697 BV | 915/944-7621 BV | 915/655-5033 BV |
| San Antonio | TX | 512/222-8002 BV | 512/225-8004 BV | 512/647-0031 BV |
| Sherman | TX | 214/893-1024 BV | | |
| Terminal | TX | | 915/563-0086 BV | 915/563-1292 BV |
| Temple | TX | | 817/773-9423 BV | |
| Texas City | TX | 409/765-7338 BV | | |
| Tyler | TX | 214/592-1372 BV | | 214/597-8113 BV |
| Waco | TX | 817/753-0001 BV | 817/752-9743 BV | 817/753-0001 BV |
| Wichita Falls | TX | 817/761-1315 BV | | |
| Ogden | UT | 801/621-1280 BV | 801/627-1630 BV | |
| Orem/Provo | UT | 801/375-0645 BV | 801/373-0542 BV | |
| Salt Lake City | UT | 801/533-8152 BV | 801/359-0149 BV | 801/364-8985 BV |

| City | St | Tymnet | Telenet | Uninet |
|-----------------|----|-----------------|-----------------|-----------------|
| Barre | VT | 802/229-4508 BV | | |
| Burlington | VT | 802/864-5714 BV | 802/864-0808 BV | |
| Montpelier | VT | 802/229-4508 BV | 802/229-4966 BV | |
| Rutland | VT | | | 802/775-0722 BV |
| White River | VT | | | 802/295-3812 BV |
| Alexandria | VA | | 202/429-7896 | 301/731-2051 BV |
| Alexandria | VA | | | 301/459-0280 \$ |
| Alexandria | VA | | 202/429-7800 BV | |
| Annandale | VA | | 202/429-7896 | 202/347-3337 BV |
| Annandale | VA | | 202/429-7800 BV | 301/459-0280 \$ |
| Arlington | VA | | | 301/731-2051 BV |
| Blacksburg | VA | | | 703/552-8236 BV |
| Charlottesville | VA | 804/293-4915 BV | 804/971-4082 BV | 804/979-4433 BV |
| Chesapeake | VA | | | 804/627-1295 BV |
| Covington | VA | | | 703/962-2126 BV |
| Fairfax | VA | 703/352-3136 \$ | 202/429-7896 | 301/731-2051 BV |
| Fairfax | VA | 703/691-8390 BV | 202/429-7800 BV | 301/459-0280 \$ |
| Fairfax | VA | 703/352-3136 \$ | | |
| Falls Church | VA | | | 301/731-2051 BV |
| Falls Church | VA | | | 301/459-0280 \$ |
| Hampton | VA | | | 804/244-5700 BV |
| Herndon | VA | | 703/435-1800 BV | |
| Lynchburg | VA | 804/528-1903 BV | | 804/846-0943 BV |
| McLean | VA | | | 202/347-3337 BV |
| Midlothian | VA | 804/744-4860 BV | | |
| Newport News | VA | 804/596-7608 BV | 804/596-6600 BV | 804/244-5700 BV |
| Norfolk | VA | 804/855-7751 BV | 804/625-1186 BV | 804/627-1295 BV |
| Petersburg | VA | 804/862-4700 BV | | |
| Portsmouth | VA | | | 804/627-1295 BV |
| Richmond | VA | 804/744-4860 BV | 804/788-9902 BV | 804/353-3813 BV |
| Roanoke | VA | 703/344-2762 BV | 703/344-2036 BV | 703/345-3246 BV |
| Springfield | VA | | | 301/731-2051 BV |
| Springfield | VA | | | 301/459-0280 \$ |
| Vienna | VA | | | 301/459-0280 \$ |
| Vienna | VA | | | 301/731-2051 BV |
| Virginia Beach | VA | | | 804/627-1295 BV |
| Williamsburg | VA | 804/872-9592 BV | | |
| Auburn | WA | | 206/939-9982 BV | |
| Bellevue | WA | | | 206/621-0227 BV |
| Bellingham | WA | 206/671-5990 BV | 206/733-2720 BV | 206/671-3891 BV |
| Enumclaw | WA | 206/825-7720 BV | | |
| Everett | WA | 206/258-1018 BV | | 206/742-1142 BV |
| Longview | WA | | 206/577-5835 BV | |
| Lynwood | WA | | | 206/742-1142 BV |
| Olympia | WA | 206/943-9050 BV | 206/754-0460 BV | 206/754-5169 BV |
| Richland | WA | 509/375-3367 BV | | |
| Seattle | WA | 206/285-0109 BV | 206/447-9012 | 206/621-0227 BV |
| Seattle | WA | 206/281-7141 \$ | 206/625-9612 BV | |
| Spokane | WA | 509/747-4105 BV | 509/455-4071 BV | 509/838-7715 BV |
| Tacoma | WA | 206/272-1503 BV | 206/627-1791 BV | 206/272-7189 BV |
| Vancouver | WA | 206/693-0371 BV | | |
| Wenatchee | WA | | 509/663-6227 BV | |
| Yakima | WA | 509/453-1591 BV | | |
| Charleston | WV | 304/345-9575 BV | 304/345-6471 BV | 304/344-1650 BV |
| Huntington | WV | 304/525-4406 BV | 304/523-2802 BV | 304/529-0304 BV |
| Morgantown | WV | 304/292-8251 BV | | |
| Parkersburg | WV | 304/428-8511 BV | | |
| Wheeling | WV | 304/233-7950 BV | | |
| Appleton | WI | 414/722-5580 BV | | 414/739-7830 BV |
| Beloit | WI | 608/365-6883 BV | | |
| Brookfield | WI | 414/785-1614 BV | | 414/549-3970 BV |
| Brookfield | WI | 414/785-0630 \$ | | |
| Eau Claire | WI | 715/832-1354 BV | 715/836-9295 BV | |
| Green Bay | WI | 414/432-3064 BV | 414/432-2815 BV | 414/435-0671 BV |
| Kenosha | WI | | | 414/551-0401 BV |
| La Crosse | WI | 608/785-1450 A | | |
| Madison | WI | 608/221-4211 | 608/257-5010 BV | 608/258-8408 BV |
| Madison | WI | 608/221-0891 A | | |
| Milwaukee | WI | 414/785-1614 BV | 414/271-3914 BV | 414/548-6920 BV |
| Neenah | WI | 414/722-5580 BV | | |
| Oshkosh | WI | 414/235-7473 BV | | |
| Racine | WI | 414/632-3006 BV | 414/552-7217 BV | 414/632-7395 BV |
| Sheboygan | WI | 414/452-2622 BV | 414/452-3995 BV | 414/459-7455 BV |
| Sun Prairie | WI | | | 608/258-8408 BV |
| Superior | WI | | | 218/722-4639 BV |
| Wausau | WI | 715/355-1262 BV | | |
| West Allis | WI | | | 414/548-6920 BV |
| West Bend | WI | 414/334-1240 BV | | |
| Casper | WY | 307/234-4211 BV | 307/265-5167 BV | |
| Cheyenne | WY | 307/632-7464 BV | 307/638-4421 BV | |
| Laramie | WY | | | 307/721-4145 BV |

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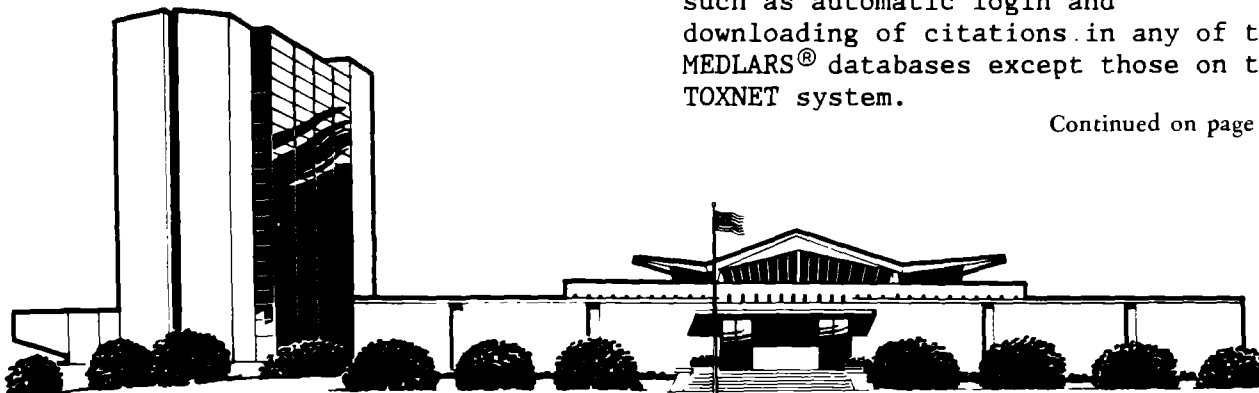
NLM Introduces GRATEFUL MED: A User-Assisted Interface To MEDLINE And CATLINE

Rose Marie Woodsmall
Office of Planning and Evaluation, NLM

John E. Anderson
Director, Information Systems, NLM

On February 5, 1986, NLM unveiled a new front-end software package for accessing NLM's MEDLINE, MEDLINE Backfiles and CATLINE databases via a personal computer. This software, named GRATEFUL MED, is designed to simplify the search process for an untrained or novice user. Health professionals; scientists, and others with a need for medical information can use GRATEFUL MED to search MEDLINE, its Backfiles, and CATLINE without knowledge of NLM's ELHILL search system, controlled vocabulary (MeSH®), or database structure. Experienced searchers can use the "expert" mode to take advantage of some useful and time-saving features, such as automatic login and downloading of citations in any of the MEDLARS® databases except those on the TOXNET system.

Continued on page 6



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| DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|-----------------|---------------|--------------------------|-------------------|-------------------|
| (ELHILL SYSTEM) | | | | |
| AVLINE | 14,392 | THROUGH 1986 | 06 FEB 86 | |
| BIOETHICS | 19,502 | JAN 73-1985 | 19 DEC 85 | 8512(EM) |
| CANCERLIT | 504,968 | JAN 63-FEB 86 | 05 FEB 86 | 8602(EM) |
| CANCERPROJ | 9,356 | THROUGH 1986 | 07 JAN 86 | 8601(EM) |
| CATLINE | 600,161 | THROUGH 1986 | 06 FEB 86 | |
| CHEMLINE | 659,570 | | 17 DEC 85 | 8512(EM) |
| CLINPROT | 5,251 | | 11 FEB 86 | 8601(EM) |
| DIRLINE | 15,168 | | 24 SEP 85 | |
| HEALTH | 335,850 | JAN 75-MAR 86 | 10 FEB 86 | 8603(EM) |
| HISTLINE | 70,650 | | 10 FEB 86 | 8602(EM) |
| MEDLINE | 530,833 | JAN 84-MAR 86 | 03 FEB 86 | 8603(EM) |
| MED83 | 286,616 | JAN 83-DEC 83 | 27 JAN 86 | |
| MED80 | 804,756 | JAN 80-DEC 82 | 18 JAN 86 | |
| MED77 | 775,069 | JAN 77-DEC 79 | 07 DEC 85 | |
| MED75 | 642,694 | JAN 75-DEC 76 | 07 DEC 85 | |
| MED71 | 883,467 | JAN 71-DEC 74 | 07 DEC 85 | |
| MED66 | 954,613 | JAN 66-DEC 70 | 07 DEC 85 | |
| MESH VOC | 56,250 | 1986 | 10 FEB 86 | |
| NAME AUTH | 192,179 | | 10 FEB 86 | |
| POPLINE | 144,465 | 1970-JAN 86 | 11 JAN 86 | 8601(EM) |
| RTECS | 78,454 | THROUGH OCT 85 | 23 NOV 85 | |
| SDILINE | 25,765 | MAR 86 | 03 FEB 86 | 8603(EM) |
| SERLINE | 66,334 | 1986 | 24 JAN 86 | |
| TOXLINE | 701,984 | | 18 JAN 86 | 8601(EM) |
| CBAC | 396,924 | 1981-VOL 103(12,13) | | |
| TOXBIB | 147,897 | 1981-FEB 86 | | |
| IPA (ASHP) | 33,691 | 1981 VOL 23(1,2) | | |
| BIOSIS | 17,391 | DEC 1985 | | |
| HEEP | 49,788 | 1981-VOL 14(8) | | |
| PESTAB | 1,536 | 1981 | | |
| EMIC | 8,899 | 1981-DEC 1984 | | |
| ETIC | 10,906 | 1981-DEC 1985 | | |
| TD3 | 19,880 | 1981-GRA&I 85(20,21) | | |
| HMTC | 1,481 | 1981-JUN 1985 | | |
| ILO | 3,983 | JUL 1985 | | |
| RPROJ/CRISP | 10,016 | FISCAL YEARS 1983 & 1984 | | |
| TOXBACK76 | 555,808 | | 27 AUG 84 | |
| CBAC | 298,383 | 1976-1980 | | |
| TOXBIB | 106,643 | 1976-1980 | | |
| IPA(ASHP) | 33,321 | 1976-1980 | | |
| HEEP | 63,796 | 1976-1980 | | |
| PESTAB | 14,757 | 1976-1980 | | |
| EMIC | 17,267 | 1976-1980 | | |
| ETIC | 11,970 | 1976-1980 | | |
| TD3 | 9,671 | 1976-1980 | | |
| TOXBACK65 | 598,424 | | 27 AUG 84 | |
| CBAC | 287,992 | 1965-1975 | | |
| TOXBIB | 155,387 | 1965-1975 | | |
| IPA(ASHP) | 33,876 | 1969-1975 | | |
| HEEP | 54,075 | 1970-1975 | | |
| HAPAB/PESTAB | 18,416 | 1968-1975 | | |
| EMIC | 19,554 | 1950-1975 | | |
| ETIC | 13,694 | 1950-1975 | | |
| TD3 | 339 | PRE-1965-1975 | | |
| HAYES | 10,039 | 1940-1968 | | |
| TMIC | 4,552 | 1940-1975 | | |
| (TOXNET SYSTEM) | | | | |
| TDB | 4,139 | | 01 OCT 85 | |
| HSDB | 4,139 | | 29 JAN 86 | |

Editor: Carolyn B. Tilley
 Assistant Editor: T. Scott Plutchak
 Technical Notes Editor: Patricia E. Healy
 (301) 496-6193

Direct Inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 Bldg. 38A, Rm. 4n421
 Bethesda, Maryland 20894

Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual, 1982 and Supplement, 1984 that is considered most relevant to the item being discussed, e.g., (Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

NEW NLM COMPUTER INSTALLATION

During the past two months users have experienced periods of unexpected downtime. This may also occur during the next several months as NLM is making changes to its computer hardware and further improving the efficiency of the retrieval system. MEDLARS currently runs on an IBM 3033 MP; the new computer configuration will be an IBM 3084 Q64. Most of the installation activities will be scheduled on weekends after midnight Eastern Time, but other downtime and slow response time is inevitable. We appreciate your patience throughout this period. □

CANCERLIT USING 1986 MESH

The class maintained version of the CANCERLIT database was made available on February 5, 1986. Searchers may now use 1986 MeSH vocabulary when searching CANCERLIT. Because of the delay in regenerating CANCERLIT, the Automatic SDIs for the 8601 (EM) and 8602 (EM) updates were run together. Consequently, both updates appeared on the same printout. Users will only be charged \$1.00 per SDI search for both updates (8601 and 8602) rather than \$1.00 per search for each update. The usual page charges, however, will apply. (For more information on the CANCERLIT year-end changes, please refer to the articles on CANCERLIT in the November and December 1985 issues

of the NLM Technical Bulletin.) □

BIOETHICSLINE USING 1986 MESH

Effective January 24, 1986, a class maintained version of BIOETHICSLINE was made available with 1986 MeSH vocabulary. Searchers may now use their 1986 MeSH tools when searching this database. □

POPLINE USING 1986 MESH

The POPLINE February update, 8602 (EM), scheduled for February 8, is expected to be postponed due to year-end processing. It is anticipated that the 8602 update will occur on February 15. The file available then will contain 1986 MeSH vocabulary. The POPLINE Automatic SDIs will be run after the update. Watch the news for the exact date of 1986 POPLINE availability. □

HEALTH PROFESSIONAL TRAINERS

The MEDLARS Management Section has recently been encountering some problems in processing application forms submitted by health professionals applying for access codes after attending a "Basics of Searching MEDLINE" course. Frequently there is no statement informing MMS of their attendance at such a course in the paperwork requesting an access code. When this occurs, NLM sends them a letter requesting training information before issuing a code. This causes an unnecessary delay in health professionals receiving a MEDLARS access code. All trainers should remind the health professionals in their courses that they need to

include a statement confirming their attendance at a "Basics" course when applying for an access code, either on the training application form or in a cover letter. Trainers should see the article "Health Professional Training" on page 9 of this issue of the NLM Technical Bulletin for more information on these application procedures. □

ADDITION TO TRAINING CLASS SCHEDULE

An Initial training class has been added to the 1986 NLM Online Services Training Tentative Class Schedule published in the November 1985 NLM Technical Bulletin, p. 5. This course will be held June 2-6, 1986 in Los Angeles, California. Please annotate your schedule to reflect this change. □

CANCELLATION OF MEDLARS USER ID CODES

All requests for cancellation of a MEDLARS User ID Code must be submitted directly to the MEDLARS Management Section in writing. These requests should not be sent to the National Technical Information Service (NTIS), NLM's billing agent, as NTIS is not empowered to take any action pertaining to User ID Codes.

Searchers should also note that the expiration of a purchase order maintained by NTIS for MEDLARS online services, or expiration of a one-year Memorandum of Understanding (MOU), does not result in the automatic cancellation of MEDLARS online access. The User ID Code will be cancelled only upon written notification to MMS. □

TOXNET LOGIN: ALTERNATIVE TO BREAK KEY

With TOXNET's move to a more powerful computer, users are now able to login to the system with the Carriage Return (CR) in place of the BREAK key.

1) Direct dial: Enter CR or BREAK after making phone connection.

2) TYMNET: Enter CR or BREAK after system prompt, HOST IS ONLINE.

3) TELENET: Network automatically transmits CR after user enters C 301 633 or C 301 634. User is then logged on, without having to enter CR or BREAK.

This change should be especially welcome news to PC users who were unable to use a BREAK key on their machines. □

SAVESEARCH AND STRINGSEARCH (Manual 5.3+)

Recently, a number of ELHILL searchers have experienced problems executing SAVESEARCHes that have included a STRINGSEARCH as part of the strategy. Searchers are reminded that unless absolutely necessary, a STRINGSEARCH should not be used in a SAVE or SAVESEARCH strategy. Instead, a direct search combination should be used. For example:

AND NOT FOR (LA)

or

AND HUMAN

should be used in lieu of a STRINGSEARCH for these concepts. This approach should always be followed in

a SAVESEARCH even if there are fewer than 200 citations. Some time overflows may be encountered using the Boolean AND rather than STRINGSEARCHing; nevertheless direct searching is more efficient in saved searches.

Searchers should strictly adhere to the following two rules:

- 1) Never use multiple STRINGSEARCHes within a SAVESEARCH. This practice can yield incorrect retrieval, especially when STRINGSEARCHing a search statement that is itself the result of a STRINGSEARCH.
- 2) Never use a STRINGSEARCH in a SAVESEARCH that also includes an embedded SAVESEARCH as part of its strategy. □

LIST OF SERIALS INDEXED FOR ONLINE USERS, 1986

The List of Serials Indexed for Online Users, 1986 may now be ordered from the National Technical Information Service (NTIS). Delivery is expected in April. The publication number is PB86-148418/GBB. The U.S./Canadian price is \$12.00 for hardcopy and \$5.95 for microfiche; the foreign price is \$24.00 (hardcopy) and \$11.90

(microfiche). The address for NTIS is:

NTIS
5285 Port Royal Road
Springfield, VA 22161
(703) 487-4650 (For phone orders with a deposit account or credit card)

Remittance should accompany all orders. Please include \$3.00 (U.S./Canada) per order to cover postage and handling (\$4.00 foreign). □

MESH TREE ANNOTATIONS

No new edition of the Medical Subject Headings, Tree Annotations will be published in 1986. Searchers with the 1984 edition of the Tree Annotations, which was the last edition published, should consult Appendix A for a list of changes that should be made to this 1984 edition to keep the information current. □

REQUEST FOR TRAINING CODES

Appendix B is a revised form to be used when requesting training for the course, "Teaching MEDLINE To The Health Professional". □

Please access FILE INFORM and type NEWS to see the most recent news item online!

GRATEFUL MED

Continued from page 1

GRATEFUL MED runs on any member of the IBM PC family and most compatibles with at least 256K RAM and one double-sided, double-density disk drive. It requires a HAYES Smartmodem or completely compatible modem.

After installing the software (instructions for installation are included with the documentation), the user runs the SETUP module which adds the personal User ID Code/Password and local telephone numbers used in the automatic logon sequence.

STEPS IN USING GRATEFUL MED

Following two screens of introduction and instructions, the user constructs a search on a "screen form" (see Figure 1 and the detailed description below). The software then calls the NLM computer, enters the user's code/password, and the search is "uploaded" (sent to the NLM computer via telecommunications lines). After completion of the search, the results are "downloaded" (sent back to the user's personal computer), and the user is signed off the NLM computer.

GRATEFUL MED Screen Form

INPUT YOUR SEARCH

FILL IN THE APPLICABLE LINES, E.G., TYPE AUTHOR'S NAME IN THE AUTHOR LINE. HIT **ENTER TO GO TO NEXT LINE. FOR HELP HIT **HOME**. TO START OVER HIT **ESC****

AUTHOR/NAME

TITLE WORDS

SUBJECT WORDS

2ND SUBJECT

3RD SUBJECT

4TH SUBJECT

ENGLISH ONLY

REVIEW ONLY

JOURNAL ABBREV

Figure 1

GRATEFUL MED then reformats the retrieved citations (freeing the user from a need to understand the mnemonics attached to the data), and presents the citations, one at a time, to the user. The user is asked to judge if each citation is relevant to the search request. Based on these interactions, the software suggests MeSH Headings that may be useful in further searching on the subject. These suggestions are produced by an algorithm in the software that analyzes the MeSH Headings attached to both the relevant and non-relevant citations (as judged by the user). If the user so chooses, the relevant citations are printed at this time.

The user is given the option of searching the MEDLINE Backfiles after the current file retrieval is examined. If a search yields nothing in the current file, the user is given brief instructions on what to look for in the search interaction, which can then be displayed, and the option to search the Backfiles is provided. The user is thereby given some guidance for possible reformulation before searching all the Backfiles with a strategy that may contain a misspelled word, etc.

The "intellectual" activities of selecting appropriate search words and assessing the relevancy of the retrieval are done while the user is not connected to the NLM computer; hence, the user can spend time editing the search and printing the citations without concern for connect time costs.

HOW GRATEFUL MED WORKS

GRATEFUL MED uses a "screen form" for formulating the search (see Figure 1). The user enters individual search words for each concept to be searched. These are then searched as both MeSH Headings and Text Words from the title and abstract. Lines are provided on

the form for author, title, subject, and journal searching. In addition, there are lines on the form to limit to English language and Review articles.

All lines of the screen form are ANDed together (Boolean AND); that is, the requirements for each line filled in by the user must be satisfied for retrieval to occur.

All words entered on the Title line must be present for a citation to be retrieved (also Boolean AND). There are four Subject lines, each of which allows for alternative words for a concept to be entered (Boolean OR).

Users familiar with the MeSH vocabulary may use multi-word headings or MeSH Heading/Subheading combinations by beginning the line with a forward slash (/), which indicates that the line is to be sent to the NLM computer "as is."

The software's suggestion of MeSH headings (after the user has made relevancy judgments) encourages, but does not require, that users learn more about advanced methods of searching.

USER ASSISTANCE

The MEDLARS Management Service Desk will handle all requests for assistance from GRATEFUL MED users, just as for all other users of the system. Articles geared toward those using the software will be included in the NLM Technical Bulletin in the future.

AVAILABILITY

The software (on a floppy disk) and accompanying documentation will be available for a nominal price through the National Technical Information

Service (NTIS) in late February. New versions will be provided to purchasers at no cost. Purchase of the GRATEFUL MED software does not include a User ID Code. All applications for access must still be processed by MEDLARS Management.

The GRATEFUL MED package will also include: an application packet for a User ID Code; a MEDLARS system

brochure; and information on NTIS Deposit Accounts. MEDLARS Management Section will assign an access code upon receipt of the completed application and provide the user with local node numbers for TELENET, TYMNET, and UNINET. Training will not be required for GRATEFUL MED users.

Distribution specifics will be featured in the Online NEWS. □

GRATEFUL MED HIGHLIGHTS

Accepts a search on a screen form.

Dials the NLM computer, logs in, and uploads the search in ELHILL format.

Downloads the retrieval and logs off.

Reformats the retrieval for examination by the user, who then assesses the usefulness of each citation, printing only those that are relevant.

Suggests MeSH Headings for further subject searching based on the user's assessment of relevancy of the retrieved citations.

Provides an "expert" mode for those who wish to bypass the screens.

Health Professional Training: Providing User ID Codes To Participants

Patricia C. Buchan
MEDLARS Management Section, NLM

Currently, most health professionals who participate in "The Basics of Searching MEDLINE: A Course for the Health Professional," decide upon completion of the course that they wish to apply for access to the MEDLARS system. Delays are sometimes encountered when these health professionals begin the application process.

In order to alleviate these delays, NLM has established the following procedures for trainers to follow:

- 1) For participants to obtain codes after the completion of the course:

Trainers should request that MMS mail them multiple copies of the application packet for subsequent distribution during the class. Those health professionals interested in obtaining a MEDLARS User ID Code are then responsible for completing the application paperwork and returning it to MMS for processing. Trainers should remind the course attendees that they need to include information about their training (dates and location) when returning the application for access to MMS. They should be told to ignore any of the materials concerning regular Initial and Advanced Online Services Training unless they wish to apply for Initial (3 to 5 day) training. (Access application packets dated 2/86 and later include a place to indicate if the applicant has attended a "Basics of Searching MEDLINE" Course).

- 2) For participants to obtain codes at

the time of the course:

Trainers should request multiple copies of the application packet from MMS, allowing sufficient time for distribution several weeks before the class to interested health professionals who know they will want a code after the training. Health professionals will complete the application paperwork and return it to the trainer. The trainer should then send these completed applications to MMS in a group at least two weeks before the scheduled date of the class. MMS will process the forms and return materials concerning the codes to the trainer. The trainer can then distribute these materials (which provide the User ID Code/Password and additional information) to the health professionals so that they can leave the class with their own codes. Because of this intermediate handling of codes by the trainer, trainers should make sure that the health professionals know how to use the PROFILE MODIFY PASSWORD command on MEDLARS so that they may change their passwords from the original ones placed on each code by MMS. This will assure more security for their codes and passwords.

This latter procedure requires time and preparation on the part of the trainer and the health professionals. MMS suggests that the application packets be requested as early as possible in advance of the course. They must be returned in a class group to MMS no later than two weeks prior to the actual training class date. Because MMS makes periodic revisions to the MEDLARS code application packet, requests should be limited to the number necessary for only the next training class planned. Ordering an entire year's worth of packets, for example, might cause additional delays if changes have been made in some of the forms and old, outdated forms are returned to MMS.

It is still possible to teach the course and instruct health professionals to call or write to MMS for application packets. The two procedures outlined above should help eliminate delays encountered by some health professionals who are certain they will want codes after training. For those who are not sure, MMS recommends that the trainer provide the application packet at the time of training or simply refer trainees to MMS to apply for access at a later time.

A sample request form for application packets can be found following this article. Be sure to photocopy it and keep extras on hand in order to request application packets for health professionals attending future courses. Telephone requests may be made if time does not allow for a request by mail. For additional information about obtaining User ID codes for health professionals, please contact the MMS Service Desk. □

REQUEST FOR MEDLARS APPLICATION PACKETS

Name of trainer _____

Organization _____

Address _____

City, State, Zip _____

User ID Code (e.g. ABC01) _____

(Please request packets for only one training class at a time)

Date of training _____

Number of application packets _____

The TOXNET User Profile And Printgroups

Philip Wexler
Specialized Information Services, NLM

Profile

Associated with each TOXNET User ID Code is a stored "profile", accessible online, which allows users to specify or change their addresses and display screen formats. Profiles also accommodate custom-designed search aids, such as printgroups (which are described in detail below). The individual parameters which constitute a profile are:

PASSWORD: The security word assigned to the user's account; maximum of eight alphanumeric characters.

NAME: The user's name; maximum of fifty characters.

ADDRESS: The user's street address; maximum of fifty characters.

CITSTAZIP: The user's city, state, and zip code; maximum of fifty characters.

PAGELength: The length, in lines, of each displayed page. An initial value of 24 is assigned but may be changed to any length between 10 and 100.

PAGEWIDTH: The width, in characters, of each displayed line. An initial value of 80 is assigned but may be changed to any width between 40 and 132.

Other parameters associated with profiles are:

STORAD: Stored address. The name and mailing address to which offline prints should be sent. This is a composite parameter consisting of the

NAME, ADDRESS, and CITSTAZIP above. It may be used with a PROFILE MODIFY command.

PRTGRP: Print groups. See discussion below.

PASSWORD, PAGELength, and PAGEWIDTH are required parameters; the remainder are optional.

The following commands are related to the profile parameters:

PROFILE LIST: Displays the current value of all parameters except PRTGRP.

PROFILE MODIFY: Permits modification of any parameter except PRTGRP. Users may modify the entire profile by simply entering PROFILE MODIFY. They will then be prompted to enter revised values for each of the parameters. Users are also able to change selected parameters by specifying these after the words PROFILE MODIFY. For instance, to reflect a zip code change in the user profile, the command PROFILE MODIFY CITSTAZIP should be issued, followed by the entry of the correct CITSTAZIP. (Note: Do not use "same" as a response to a prompt when modifying a profile. Although this works in ELHILL, it is rejected in TOXNET since SAME is a command. Using a carriage return will bypass a field and leave the information in it unchanged. Also, remember that modifications made to a profile in TOXNET or ELHILL will not have any effect on the profile in the other system).

Printgroups

A printgroup (PRTGRP) is a set of data field mnemonics selected and named by the user. After defining a printgroup, the user may call it up in conjunction with any print command.

Printgroups facilitate the recurrent printing of many data fields. Some TOXNET files, particularly HSDB, are especially broad in scope. Users whose day-to-day work involves more specific areas of interest will find printgroups an efficient way to frequently print the same set of data fields. There is no limit to the number of printgroups a user may set up, although it is good practice to periodically review stored printgroups and delete those no longer being used. Figure 1 gives an example of the creation of a printgroup.

After following the procedure in Figure 1, the printgroup REGS is

stored and the user, after retrieving one or more records, in the course of the current or any future search session, may type PRT REGS. This will result in the printing of the CERC (CERCLA Reportable Quantities), TSCA (TSCA Requirements), RCRA (RCRA Requirements), and FIFR (FIFRA Requirements) data fields from the retrieved records.

REGS may now be considered equivalent to any other category, header, or data field mnemonic in relation to its use with TOXNET print commands. One could enter PRT INDENTED REGS; PRT REGS, REFS; PRT OFFLINE REGS, etc.

```

Creating A Printgroup

SS 1 /C?
USER:
profile modify prtgrp
ENTER PRTGRP NAME

USER:
regs
ENTER MNEMONICS-PRESS <RETURN> TO STOP

USER:
cerc, tsca, rcra, fifr

USER:                                     (Answer this prompt with a carriage return
                                         when finished entering mnemonics)

PRTGRP: REGS
CERC,TSCA,RCRA,FIFR,

ADD or DELETE or FINISHED?
USER:
finished

OK? (Y/N/C)
USER:
Y

LIST ALL PRINT GROUPS FOR THIS USER ? (Y/N)

USER:
Y

GROUP:  REGS
CERC,TSCA,RCRA,FIFR,

PROFILE COMPLETED
    
```

Figure 1

To modify a PRTGRP, as well as to create one, the user should enter PROFILE MODIFY PRTGRP. Upon prompting from the system, the user should type the PRTGRP name and, upon further prompting, specify whether data fields are to be added or deleted from it by answering the question with ADD or DELETE or FINISHED.

To entirely delete an existing PRTGRP,

the user should again enter PROFILE MODIFY PRTGRP. In response to the system prompt, ENTER PRTGRP NAME, the user should enter the printgroup name, followed by a slash (/) and the word DELETE; e.g., REGS/DELETE.

There is no need to keep a low profile when using these handy TOXNET features. □

Monthly Search Hint:

"Over-Alls"

T. Scott Plutchak
Index Section, NLM

An "over-all" is defined by the Index Section at NLM as a single citation covering several articles on a common subject of various degrees of specificity or a single citation covering papers or abstracts presented at a meeting. Symposia, conference proceedings, special issues, monograph issues of serials, and the like, all may fall into these categories. Approximately one hundred such citations are added to Index Medicus and MEDLINE each month. This article describes the general rules followed for selection and indexing of over-alls, as well as some tips for searching. It does not reproduce the detailed body of rules which the Index Section uses to cover the variety of exceptions and special cases that are encountered when dealing with this rather amorphous area of the literature.

Subject over-alls

There are two main types of subject over-alls. Some journals routinely devote each issue to a single subject (e.g., the various North American Clinics series). In most cases, each of these issues has an over-all citation prepared for it, as well as having the individual papers indexed. Figure 1 illustrates this, showing the citation for a collection of many papers on specific aspects of the subject given in the over-all. Two of the citations are given with their MeSH Headings to show the difference between their indexing and that of the over-all.

Other journals which are not normally devoted to a single subject will, on occasion, devote a "special issue" to

a topic of interest. These are not given over-all citations routinely. A judgment is made in each individual case, based on a variety of factors including the number of papers and their individual specificity, as to whether an over-all citation would serve a useful purpose. For example, a special issue on therapeutic uses of metoprolol may appear in which each of the nine articles included is indexed to metoprolol/*tu (along with other relevant headings). Since the indexing for the over-all could be no more specific than that same Main Heading/Subheading combination, an over-all citation would serve no purpose.

A third type of subject over-all, though not an over-all in the strict sense, is made for cumulative indexes. When a separately published issue of a journal is devoted exclusively to cumulative indexes (not merely annual), an over-all citation is made for that issue. The indexing will consist of *BIBLIOGRAPHY and the appropriate MeSH Heading to cover the subject area.

Meeting over-alls

Meeting over-alls appear in a variety of forms. They may include the full text of the papers presented at the meeting, abstracts of the papers, or a combination of both. An over-all may consist of an entire issue or only a part of an issue. If the complete papers are included, and the journal in which they appear is regularly indexed, each individual paper will usually be indexed (papers fewer than three pages in length are usually not indexed). Abstracts and reports of poster presentations are never indexed individually.

The over-all citation will include the full name of the meeting as it appears in the journal, including place and date information, if provided, in the

order in which it appears in the text. If the citation is for a collection of abstracts, the word "Abstracts" is added to the end of the title if it does not already appear in the title as published. See Figure 2 (page 16) for some sample citations.

Indexing practice

Over-all citations are never indexed in-depth. Usually only one or two IM headings (those with asterisks, under

which a citation appears in Index Medicus) are applied, rarely any NIM headings (those headings which are retrievable only online) unless needed for coordination. The most specific headings that will cover the entire over-all are used, but these will usually be rather general, given the nature of an over-all. No attempt is made to cover the specific subjects that may be discussed in the individual papers or abstracts. Nor is an attempt made to specify all the check tags available to the indexed

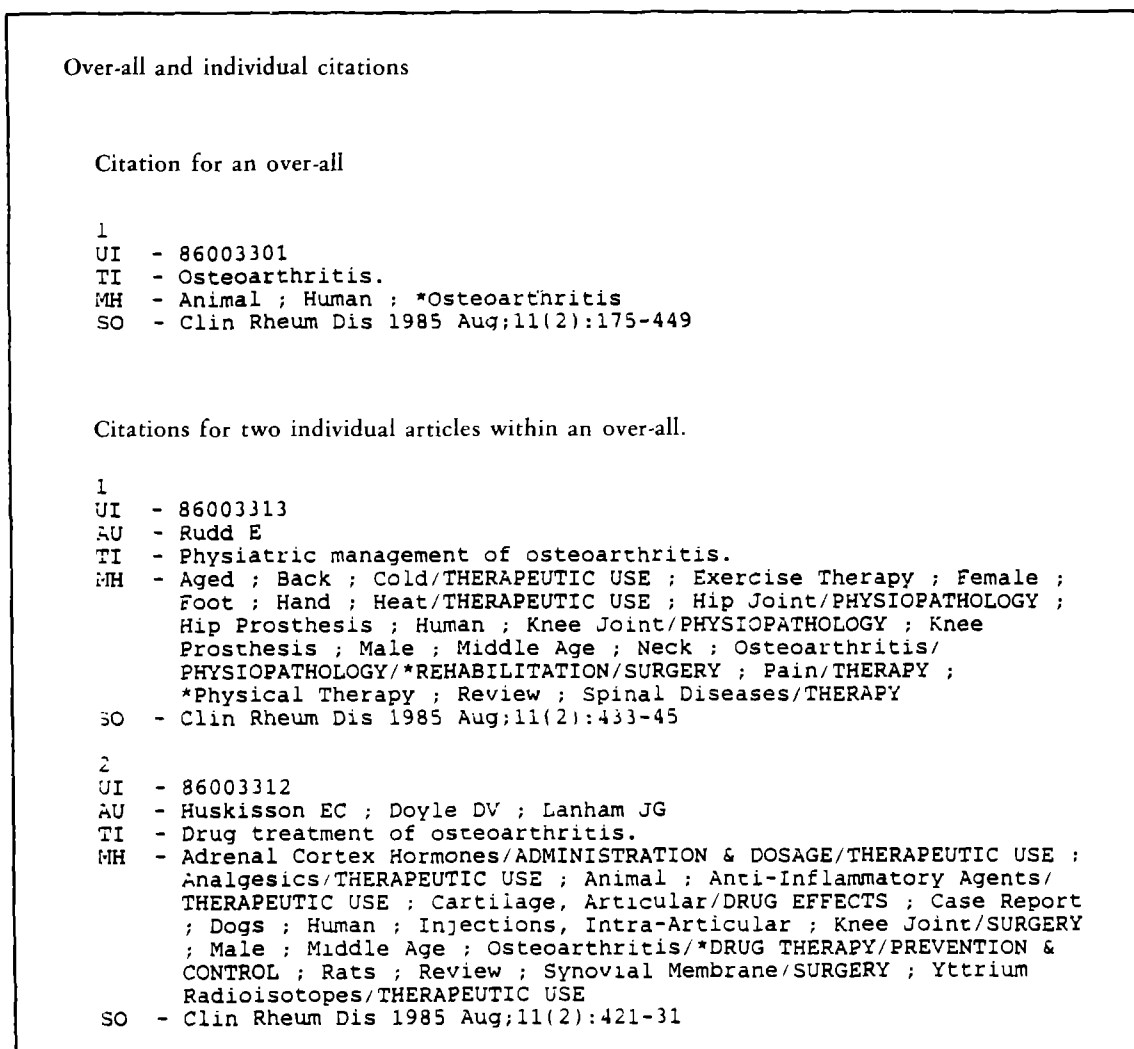


Figure 1

articles; they are usually HUMAN or ANIMAL or both, without animal specifics (unless the specific animal is the subject of the over-all).

Searching

In order to search for a specific meeting over-all online, Text Words can be used for the society or organization name (see Figure 3). Conferences on specific subjects can be retrieved using the appropriate MeSH Heading combined with a Text Word such as "congress", "conference", "meeting", "symposium", "workshop", etc. (see Figure 4).

It is possible to identify an over-all among the citations retrieved in any given search by noting one or more of the following features:

1. The words Proceedings, Conference, Meeting, Abstracts or the like in the title.
2. A long range of pages (e.g., 3-210, 1-460, 267-349).
3. Indexing; if there are only one or two headings, and a substantial number of pages, the citations probably represents an over-all.

This article has described the main principles for the selection and indexing of meeting and subject over-all. The complete body of rules used covers the subject in much more detail, but these hints should give an indication of what the searcher can expect to find in MEDLINE and how a search may be undertaken. □

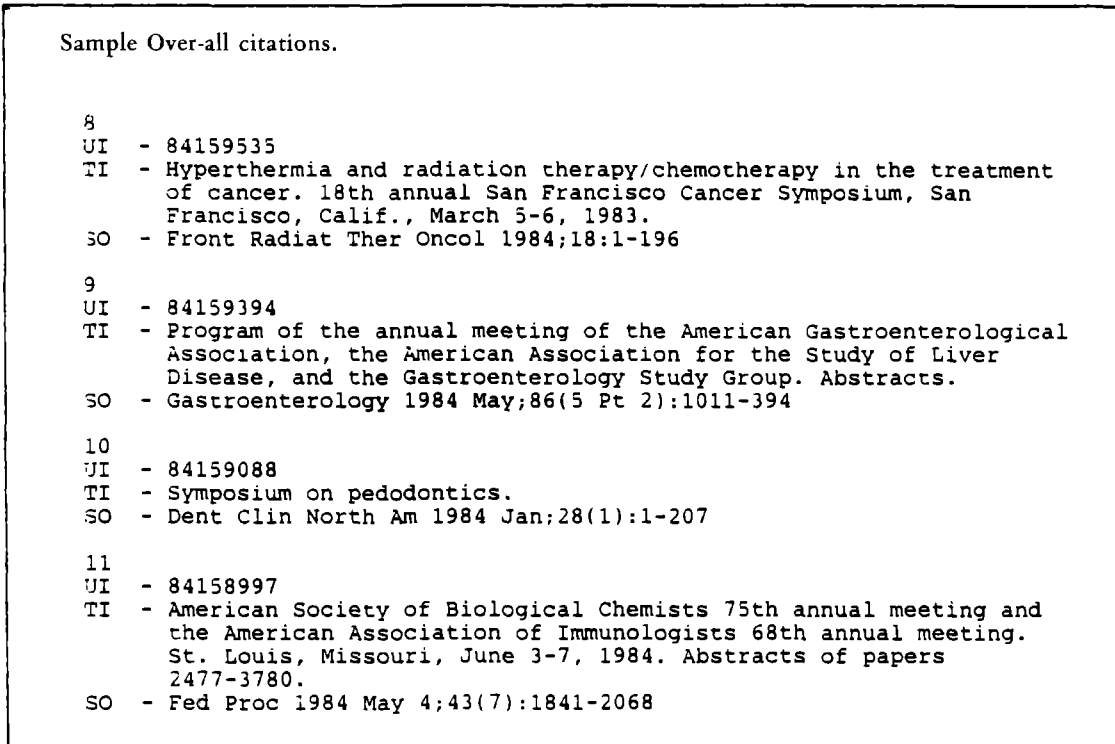


Figure 2

Searching for a specific meeting.

```

SS 1 /C?
USER:
(tw) israel and society and parasitology
PROG:
SS (1) PSTG (1)

SS 2 /C?
USER:
prt
PROG:

1
UI - 86007506
TI - Annual meeting of the Israel Society for Parasitology. 22 May
    1985, Jerusalem, Israel. Abstracts.
SO - Isr J Med Sci 1985 Aug;21(8):708-12
    
```

Figure 3

Searching for meetings on a specific subject.

```

SS 1 /C?
USER:
(tw) proceedings or congress or symposium or abstracts
PROG:
SS (1) PSTG (1868)

SS 2 /C?
USER:
1 and *hypertension
PROG:
SS (2) PSTG (32)

SS 3 /C?
USER:
prt 3 compressed include mh
PROG:

1
UI - 86073964
TI - A symposium: Role of calcium entry-blocking drugs in
    hypertension. March 1985, Maui, Hawaii.
MH - Animal ; Calcium Channel Blockers/*THERAPEUTIC USE ; Human ;
    Hypertension/*DRUG THERAPY ; Support, Non-U.S. Gov't
SO - Am J Cardiol 1985 Dec 6;56(16):1H-111H

2
UI - 86044329
TI - Non-pharmacological management of hypertension. Proceedings of
    the XVIIth scientific meeting of the Danish Society of
    Hypertension. Copenhagen, 16 November 1984.
MH - Human , Hypertension/*THERAPY
SO - Scand J Clin Lab Invest [Suppl] 1985;176:1-106

3
UI - 86038839
TI - Adrenoreceptors, calcium and excitation-contraction coupling:
    mechanisms and pharmacological interference. International
    Society of Hypertension Satellite Symposium, Lucerne,
    Switzerland, June 16-17, 1984.
MH - Animal ; Calcium/*PHYSIOLOGY ; Human , Hypertension/
    *PHYSIOPATHOLOGY ; *Muscle Contraction ; Receptors, Adrenergic/
    *PHYSIOLOGY
SO - J Cardiovasc Pharmacol 1985;7 Suppl 6:S1-209
    
```

Figure 4

SERIALS UPDATE

INDEXED TITLES UPDATE, FEBRUARY 1986

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last

UPDATE. More detailed information about each title may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, JANUARY 1986

IDL ADA NEWS
 ADA NEWS
 1, JUL 6 1970--
 AMERICAN DENTAL ASSOCIATION
 CHICAGO UNITED STATES
 INDEXING BEGAN WITH V16N1, JAN 1985.
 W1 A1144 0001-0855
 A11925000 JTC: ADN
 AMERICAN DENTAL ASSOCIATION, 211 E.
 CHICAGO AVE., CHICAGO IL 60611

HLI EMERGENCY
 EMERGENCY
 10N2, FEB 1978--
 HARE PUBLICATIONS
 CARLSBAD CA UNITED STATES
 CONTINUES EMERGENCY PRODUCT NEWS.
 INDEXING BEGAN WITH V18N1, JAN 1986.
 W1 EM661Q 0162-5942
 E05770000 JTC: EME
 EMERGENCY, P.O. BOX 159, CARLSBAD CA
 92008-0032

INI KRITIEK
 KRITIEK
 1, 1982?--
 VLAAMSE VERENIGING INTENSIEVE ZORGEN
 VERPLEEGKUNDIGEN
 RAVELS NETHERLANDS
 INDEXING BEGAN WITH V4N1, OCT-NOV 1985.
 ON ORDER
 SR0055805 JTC: KRI

TITLE CHANGES, JANUARY 1986

INI INFIRMIERE CANADIENNE
 INFIRM CAN
 1, 1959-27N11, DEC 1985
 ASSOCIATION DES INFIRMIERES CANADIENNES
 MONTREAL CANADA
 V26N7, 1984 IS A COMBINED ISSUE WITH
 V81N7, 1984 OF CANADIAN NURSE. CONTINUED
 BY: CANADIAN NURSE AND CONTINUES ITS
 VOLUME NUMBERING WITH V82N1, JAN 1986.
 W1 IN409G 0019-9605
 I13120000 JTC: G09

TITLES NO LONGER INDEXED AS OF JANUARY 1986

IM ARCHIVIO DE VECCHI PER L ANATOMIA
 PATOLOGICA E LA MEDICINA CLINICA
 ARCH DE VECCHI ANAT PATOL
 1N1,1938-65N3,1983
 EDIZIONI RIVISTE MEDICHE
 FIRENZE ITALY
 W1 AR512 0004-0061
 A63150000 JTC: 6W8

HLI BULLETIN - AMERICAN PROTESTANT HOSPITAL
 ASSOCIATION
 BULL AM PROTESTANT HOSP ASSOC
 1,1936-47N3,1983
 AMERICAN PROTESTANT HOSPITAL ASSOCIATION
 CHICAGO UNITED STATES
 VOL. FOR WINTER 1981 NUMBERED V. XLIV, NO.
 1, BUT CONSTITUTES V. XLV, NO. 1.
 W1 BU481P 0003-0635
 B38980000 JTC: BA9

IM JOURNAL OF MOLECULAR AND APPLIED GENETICS
 J MOL APPL GENET
 1N1,1981-3N1,1985
 RAVEN PRESS
 NEW YORK UNITED STATES
 INDEXING BEGAN WITH V.1N1,1981.
 W1 JO77R 0271-6801
 J30310000 JTC: IZT

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES, JANUARY 1986

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH, and POPLINE are listed in the "INDEXED TITLES UPDATE" section. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill

loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ADVANCED CLINICAL UPDATES
 1N1,1985--
 AMERICAN MEDICAL REPORTS
 SAN FRANCISCO UNITED STATES
 CONTINUES: INTERNAL MEDICINE REPORTS; AND:
 FAMILY MEDICINE REPORTS.
 IN PROCESS
 SR0055749
 AMERICAN MEDICAL REPORTS SUBSCRIBER
 SERVICES, P.O. BOX 77552, SAN FRANCISCO
 CA 94107

ANNUAIRE DE STRUCTURES DE SOINS EN
 ALCOOLOGIE
 1985--
 RIOM LABORATOIRES
 RIOM FRANCE
 ON ORDER
 SR0055808
 RIOM LABORATOIRES,CENTRE D ETUDES ET DE
 RECHERCHES MAUVERNAY,DEPT D ALCOOLOGIE
 THERAPEUTIQUE,ROUTE DE MARSAT,63203
 CEDEX,FRANCE

AIDS
 1,1985--
 GROSSE VERLAG
 BERLIN GERMANY, WEST
 IN PROCESS
 SR0055762 \$11.20

ARCHIVES FOR METEOROLOGY, GEOPHYSICS, AND
 BIOCLIMATOLOGY. SERIES B, THEORETICAL AND
 APPLIED CLIMATOLOGY
 36N1,1985--
 SPRINGER VERLAG
 WIEN AUSTRIA
 CONTINUES: ARCHIVES FOR METEOROLOGY,
 GEOPHYSICS, AND BIOCLIMATOLOGY. SERIES B,
 CLIMATOLOGY, ENVIRONMENTAL METEOROLOGY,
 RADIATION RESEARCH.
 IN PROCESS
 SR0055840 \$85.00

BIOPRESS TECHNOLOGY
1,1986--
DEKKER
NEW YORK UNITED STATES
CATALOGING IN PUBLICATION.
ON ORDER - CIP
SR0055743

BORSODI ORVOSI SZEMLE
1N1,1985--
BORSODI ORVOSI SZEMLE
MISKOLC HUNGARY
IN PROCESS
SR0055751
BORSODI ORVOSI SZEMLE,SZENTPETERI KAPU
76,3501 MISKOLC,HUNGARY

COALITIONS PERSPECTIVE
1N1,SEP/OCT 1985--
AMERICAN HOSPITAL ASSOCIATION
CHICAGO UNITED STATES
IN PROCESS
SR0055826
AMERICAN HOSPITAL ASSOCIATION, 840 NORTH
LAKE SHORE DRIVE, CHICAGO IL 60611

EMERGENCY NURSING REPORTS
1N1,FEB 1986--
ASPENS SYSTEMS
GAITHERSBURG MD UNITED STATES
ON ORDER
SR0055811 \$75.00
ASPEN SYSTEMS CORPORATION, P.O.BOX 6018,
GAITHERSBURG MD 20877

ERICKSONIAN MONOGRAPHS
N1,1985--
BRUNNER/MAZEL
NEW YORK UNITED STATES
IN PROCESS
SR0055825
BRUNNER/MAZEL PUBLISHERS, 19 UNION
SQUARE, NEW YORK NY 10003

FORUM FUR VERHALTENSTHERAPIE UND
PSYCHOSOZIALE PRAXIS
1,1984--
DEUTSCHE GESELLSCHAFT FUR VERHALTENSTHERAPIE
TUBINGEN GERMANY, WEST
IN PROCESS
SR0055758 \$11.20

HEALTH MANAGEMENT BRIEFING
1,1986--
AMERICAN HOSPITAL ASSOCIATION
CHICAGO UNITED STATES
CATALOGING IN PUBLICATION.
ON ORDER - CIP
SR0055744
AMERICAN HOSPITAL ASSOCIATION,840 LAKE
SHORE DR.,CHICAGO IL 60611

JOURNAL OF BONE AND MINERAL RESEARCH
1,1986--
MARY ANN LIEBERT
NEW YORK UNITED STATES
ON ORDER
SR0055851 \$95.00
MARY ANN LIEBERT INC,157 EAST 86TH
STREET,NEW YORK NY 10028

JOURNAL OF CARDIAC SURGERY
1N1,MAR 1986--
FUTURA PUBLISHING
MOUNT KISCO NY UNITED STATES
ON ORDER
SR0055850 \$65.00
FUTURA PUBLISHING,295 MAIN ST,P.O.BOX
330,MOUNT KISCO NY 10549

KAO-HSIUNG I HSUEH KO HSUEH TSA CHIH
1N1,JAN 1985--
KAO-HSIUNG I HSUEH WAN
KAOHSIUNG TAIWAN
IN PROCESS
SR0055777
KAOHSIUNG JOURNAL OF MEDICAL
SCIENCES,100 SHIH-CHUAN 1ST
ROAD,KAOHSIUNG CITY,TAIWAN 800,REPUBLIC
OF CHINA

MACHINE INTELLIGENCE AND PATTERN RECOGNITION
1,1986?--
ELSEVIER SCIENCE
NEW YORK UNITED STATES
SUPERSEDES: PROGRESS IN PATTERN RECOGNITION.
ON ORDER - TITLECHANGE
SR0055750 \$50.00

MASSACHUSETTS MEDICINE
1,1986--
NEW ENGLAND JOURNAL OF MEDICINE
WALTHAM MA UNITED STATES
ON ORDER
SR0055780

METABOLIC BRAIN DISEASE
1,1986--
PLENUM
NEW YORK UNITED STATES
ON ORDER
SR0055799 \$95.00

MOVEMENT DISORDERS
1,1986--
RAVEN
NEW YORK UNITED STATES
ON ORDER
SR0055824 \$130.00
RAVEN PRESS, 1140 AVENUE OF THE
AMERICAS, NEW YORK NY 10036

RECENT ADVANCES IN PSYCHOGERIATRICS

N1,1985--
 CHURCHILL LIVINGSTONE
 EDINBURGH SCOTLAND
 IN PROCESS
 SR0055830
 CHURCHILL LIVINGSTONE, ROBERT STEVENSON
 HOUSE, 1-3 BAXTERS PLACE, LEITH
 WALK, EDINBURGH EH1 3AF, SCOTLAND

SALUD PARA TODOS

N1,1985?--
 HONDURAS. MINISTERIO DE SALUD PUBLICA
 TEGUCIGALPA HONDURAS
 IN PROCESS
 SR0055792
 MINISTERIO DE SALUD PUBLICA, TEGUCIGALPA, HONDURAS C.A.

RIVISTA ITALIANA DI COLON-PROCTOLOGIA

4N3,1985--
 LA GARANGOLA
 PADOVA ITALY
 CONTIUNES: RIVISTA ITALIANA DI
 COLO-PROCTOLOGIA.
 IN PROCESS
 SR0055770 \$37.00
 LA GARANGOLA, VIA MONTONA 4-, 35137
 PADOVA, ITALY

SYMPOSIUM ON INFECTIONS IN CANCER PATIENTS:

AN INTERNATIONAL PERSPECTIVE
 1ST, MAR 10 1985--
 BAYER PHARMA BURO
 MUNICH GERMANY, WEST
 ON ORDER
 SR0055748

SALUD MATERNO INFANTIL

N1,1985?--
 UNIVERSIDAD NACIONAL AUTONOMA DE
 HONDURAS, FACULTAD DE CIENCIAS MEDICAS
 TEGUCIGALPA HONDURAS
 IN PROCESS
 SR0055791
 UNIVERSIDAD NACIONAL AUTONOMA DE
 HONDURAS, FACULTAD DE CIENCIAS
 MEDICAS, TEGUCIGALPA DC, HONDURAS

TOPICS IN HOSPITAL LAW

1,1985?--
 ASPEN SYSTEMS
 ROCKVILLE MD UNITED STATES
 ON ORDER
 SR0055835 \$59.50
 TOPICS IN HOSPITAL LAW, 16972 OAKMONT
 AVE., GAITHERSBURG MD 20877

YEN KO HSUEH PAO

IN1,1985--
 CHUN-SHAN: KO TA HSUEH, CHUNG-SHAN YEN KO
 CHUNG HSIN
 KUANG-CHOU CHINA
 IN PROCESS
 SR0055837

ORDER FROM: ISMAY (INTERNATIONAL) TRADING
 LTD., RM 812, C.C.WU BUILDING, 302-308
 HENNESSY ROAD, WANCHAI, HONG KONG

APPENDIX A

(Reprinted from the 1986 Indexing Orientation packet)

1986 TREE ANNOTATIONS

The 1984 edition of the MeSH TREE ANNOTATIONS is still available through the National Technical Information Service (NTIS) for \$10.00. Indexers show little interest in this publication since they all know all the material contained therein. For this reason no emended text will be published; the few changes wrought by MeSH changes can be pencilled into the 1984 edition.

Here is a short excerpt from the 1985 Orientation packet on the only changes to the TREE ANNOTATIONS required for 1985:

Subcategory A15 - ANATOMY-HEMIC AND LYMPHATIC SYSTEMS has been renamed to A15 - ANATOMY-HEMIC AND IMMUNE SYSTEMS with the new 1985 term IMMUNE SYSTEM added at A15.382.

If an addendum to the 1984 edition had been written it would have said,

Avoid IMMUNE SYSTEM as too general; prefer specifics.

Because of the 1986 MeSH changes, you ought to make these changes:

On page 14, change A14 - Mouth and Teeth to A14 - Stomatognathic System.

On page 21, change B5 - Lower Plants to B5 - Algae and Fungi.

On page 76, change D23 - Antiemetics, Antihistaminics and Antitussive Agents to D23 - Neuroregulators and Autocoid Blockaders

On page 94, change item 4 by cutting and pasting the new reading

4. Note in addition to all the indentions under NEUROSCIENCES here, there are NEURORADIOGRAPHY (E1) and NEUROSURGERY (E4, G2). All are used as specialties or disciplines or for general articles only. They should not be confused with NERVOUS SYSTEM with corresponding subheadings.

APPENDIX B

REQUEST FOR TRAINING CODE(S) FOR
"TEACHING MEDLINE TO THE HEALTH PROFESSIONAL"

NAME OF TRAINER _____
 ORGANIZATION _____
 ADDRESS _____
 CITY/STATE/ZIP _____
 NLM USER ID CODE _____
 TELEPHONE NUMBER () _____ ext. _____

DATE(S) TRAINING CODES WILL BE USED _____
 LOCATION OF TRAINING _____
 TOTAL LENGTH OF TRAINING DAYS HOURS PER DAY

 NUMBER OF TERMINALS/CODES TO BE USED
 (ONE CODE PER TERMINAL) _____
 ANTICIPATED NUMBER OF ATTENDEES _____
 COMPOSITION OF AUDIENCE _____
 ADDITIONAL PRESENTER(S) _____

I agree to send the National Library of Medicine a list of class attendees upon completion of this training program.

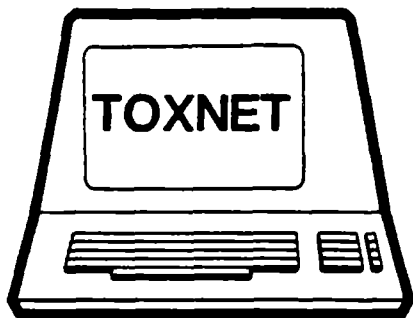
SIGNATURE _____

Please return to: MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

Do not write below this line

FOR NLM USE ONLY
 DATE(S) OF TRAINING _____
 ASSIGNED TRAINING CODE(S) _____

 AUTHORIZED BY _____
 DATE ASSIGNED _____



TOXNET

TOXICOLOGY DATA NETWORK

FACT SHEET

NATIONAL LIBRARY OF MEDICINE
SPECIALIZED INFORMATION SERVICES
TOXICOLOGY INFORMATION PROGRAM

Bethesda, Maryland 20894

January, 1986

TOXNET DEFINED

TOXNET is a computerized system of toxicologically oriented data banks operated by the National Library of Medicine in parallel with the Library's ELHILL system. This mini-computer based system includes a variety of modules used by the Library to build and review records. For outside users, TOXNET offers a sophisticated search and retrieval package which permits efficient access to valuable data, drawn from numerous sources, on potentially toxic or otherwise hazardous chemicals.

TOXNET FILES

HSDB Hazardous Substances Data Bank

A scientifically reviewed and edited data bank containing toxicological information strengthened with additional data related to the environment, emergency situations, and regulatory issues. Data is derived from a variety of sources including government documents and special reports. Contains records for over 4100 chemical substances.

TDB Toxicology Data Bank

A peer reviewed data bank focusing upon toxicological information extracted from a selective list of standard source documents. Contains records for over 4100 chemical substances.

CCRIS Chemical Carcinogenesis Research Information System

Sponsored by the National Cancer Institute. Contains evaluated data and information, derived from both short and long-term bioassays, on 1200 chemical substances. Studies relate to carcinogens, mutagens, tumor promoters, cocarcinogens, metabolites and inhibitors of carcinogens, etc.

**TOXNET
FUTURE
FILES**

Planning is underway to add additional relevant files to TOXNET. Among these would be the National Institute for Occupational Safety and Health's Registry of the Toxic Effects of Chemical Substances (RTECS) (currently available as an ELHILL file at the NLM).

**TOXNET
ACCESS**

Registered NLM users can access TOXNET by direct dial or through the TELENET or TYMNET telecommunication networks.

**TOXNET
SEARCH &
RETRIEVAL
MODULE**

TOXNET was designed to be user-friendly. A high degree of flexibility in search, print, and other commands is built in. Users can easily extract data on known chemicals or identify unknown chemicals based upon their characteristics, through free text searching. A wide variety of HELP and EXPLAIN messages provide the user with assistance, and online NEWS features keep the user informed about new system developments. A special sequence of menus for the novice user without prior computer experience is being designed.

**TOXNET
AVAILABILITY**

TOXNET is available 24 hours/day, 7 days/week, except for a brief daily maintenance period.

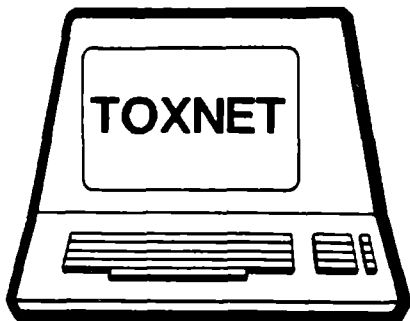
**TOXNET
USER
SERVICES**

For detailed information on TOXNET contact:

Specialized Information Services Division
National Library of Medicine
8600 Rockville Pike
Bethesda, Md 20894
Telephone: (301) 496-6531 or (301) 496-1131

For information on additional MEDLARS services contact:

MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, MD. 20894
Telephone: (301) 496-6193



NATIONAL LIBRARY OF MEDICINE
SPECIALIZED INFORMATION SERVICES
TOXICOLOGY INFORMATION PROGRAM

HSDB

HAZARDOUS SUBSTANCES
DATA BANK

FACT SHEET

Bethesda, Maryland 20894

HSDB DEFINED

HSDB is a factual, non-bibliographic data bank focusing upon the toxicology of potentially hazardous chemicals. It is enhanced with data from such related areas as emergency handling procedures, environmental fate, human exposure, detection methods, and regulatory requirements. Data are derived from a core set of standard texts and monographs, government documents, technical reports and the primary journal literature. HSDB contains complete references for all data sources utilized. HSDB is fully peer reviewed by the Scientific Review Panel (SRP), a committee of experts drawn from the major subject disciplines within the data bank's scope. The file is being built, maintained, reviewed, and updated on the National Library of Medicine's (NLM) Toxicology Data Network (TOXNET). HSDB is organized by chemical record, with over 4100 chemical substance records contained in the file.

HSDB FILE STRUCTURE

HSDB contains 138 data fields arranged in ten broad subject categories, plus a category for administrative information. These categories are structured as follows:

0. Administrative Information
1. Substance Identification
2. Manufacturing/Use Information
3. Chemical and Physical Properties
4. Safety and Handling
5. Toxicity/Biomedical Effects
6. Pharmacology
7. Environmental Fate/Exposure Potential
8. Exposure Standards and Regulations
9. Monitoring and Analysis Methods
10. Additional References

**SEARCHING
HSDB**

HSDB is resident and searchable in NLM's TOXNET system. Utilizing a free text search capability, full Boolean logic, a powerful and flexible command language, and a variety of online user assistance features, TOXNET offers state-of-the-art user-friendly searching. Online and offline printing of entire or specified portions of records is available. A variety of print options allows customized formats.

**HSDB
AVAILABILITY**

HSDB is available 24 hours/day, 7 days/week, except for a brief daily maintenance period.

**HSDB
ACCESS**

Registered NLM users can access the TOXNET system by direct dial or through the TELENET or TYMNET telecommunication networks.

**HSDB
USER
SERVICES**

For detailed information on HSDB contact:

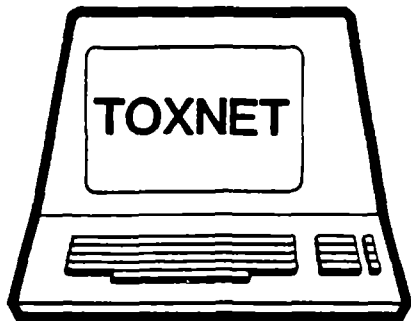
Specialized Information Services Division
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

Telephone: (301) 496-6531 or (301) 496-1131

For information on additional MEDLARS services contact:

MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

Telephone: (301) 496-6193



CCRIS

CHEMICAL CARCINOGENESIS RESEARCH INFORMATION SYSTEM

FACT SHEET

NATIONAL LIBRARY OF MEDICINE
SPECIALIZED INFORMATION SERVICES
TOXICOLOGY INFORMATION PROGRAM

Bethesda, Maryland 20894

February, 1986

CCRIS DEFINED

A scientifically evaluated and fully referenced data bank, developed and maintained by the National Cancer Institute (NCI), containing carcinogenicity, tumor promotion, and mutagenicity test results. Data are derived from the scanning of primary journals, current awareness tools, and a special core set of sources, including a wide range of NCI reports. Test results have been reviewed by experts in carcinogenesis. CCRIS is organized by chemical record and now contains some 1200 such records.

CCRIS FILE STRUCTURE

CCRIS data fields are arranged in two broad subject categories plus a category for administrative information:

0. Administrative Information
1. Substance Identification/Use
2. Carcinogenicity/Tumor Promotion/Mutagenicity Studies

The three data fields within category 2 and the information contained therein are:

Carcinogenicity Studies: Species, Strain/Sex, Route, Dose, Tumor Site/Type of Lesion, Results, Reference

Tumor Promotion Studies: Species, Strain/Sex, Promoter Route, Target Tissue/Type of Lesion, Promoter Doses, Carcinogen Route, Carcinogen Doses, Reference

Mutagenicity Studies: Test System, Strain/Indicator, Metabolic Activation, Method, Dose Range, Reference

**SEARCHING
CCRIS**

CCRIS is resident and searchable in NLM's TOXNET system. Utilizing a free text search capability, full Boolean logic, a powerful and flexible command language, and a variety of online user assistance features, TOXNET offers state-of-the-art user-friendly searching. Online and offline printing of entire or specified portions of records is available. A variety of print options allows customized formats.

**CCRIS
AVAILABILITY**

CCRIS is available 24 hours/day, 7 days/week, except for a brief daily maintenance period.

**CCRIS
ACCESS**

Registered NLM users can access the TOXNET system by direct dial or through the TELENET or TYMNET telecommunication networks.

**CCRIS
USER
SERVICES**

For detailed information on CCRIS contact:

Specialized Information Services Division
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8600 Rockville Pike
Bethesda, MD 20894

Telephone: (301) 496-6531 or (301) 496-1131

For information on additional MEDLARS services contact:

MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

Telephone: (301) 496-6193

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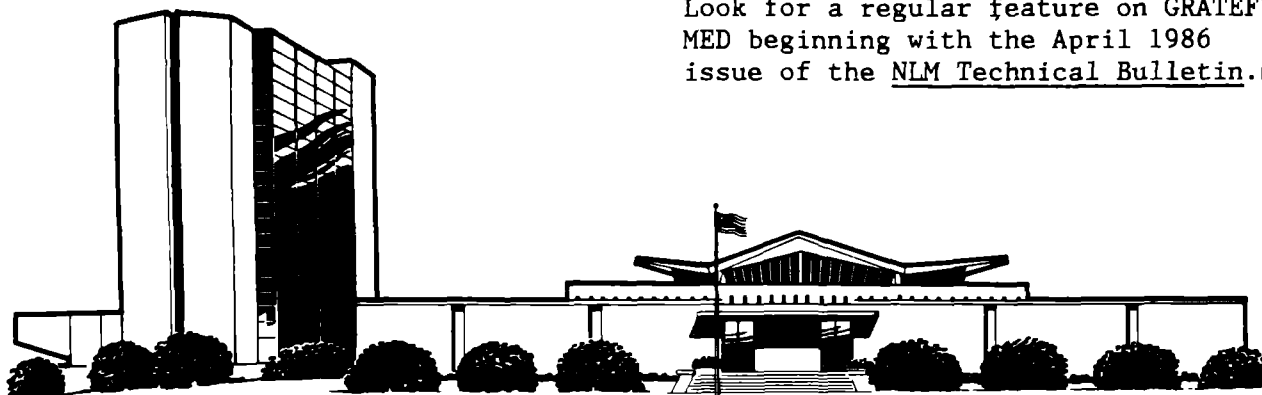
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GRATEFUL MED Software Available From NTIS

GRATEFUL MED, NLM's new front-end software package for IBM PC (or compatible) microcomputers, and Hayes (or compatible) modems, announced in the February 1986 issue of the NLM Technical Bulletin, is now available for purchase from the National Technical Information Service (NTIS) for \$29.95 (plus the \$3.00 NTIS handling fee per NTIS order). The publication number is PB86-158482. A 25% volume discount is available on orders of five or more copies. GRATEFUL MED is currently available only to U.S. users.

A GRATEFUL MED fact sheet and order form is enclosed with this issue. It outlines the hardware/software requirements for GRATEFUL MED as well as describing the process of applying for MEDLARS access using the GRATEFUL MED application materials.

Look for a regular feature on GRATEFUL MED beginning with the April 1986 issue of the NLM Technical Bulletin. □



NLM TECHNICAL BULLETIN • MAR 86

| DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|-----------------|---------------|--------------------------|-------------------|-------------------|
| (ELHILL SYSTEM) | | | | |
| AVLINE | 14,569 | THROUGH 1986 | 20 MAR 86 | |
| BIOETHICS | 19,852 | JAN 73-1985 | 14 FEB 86 | 8602(EM) |
| CANCERLIT | 510,217 | JAN 63-MAR 86 | 01 MAR 86 | 8603(EM) |
| CANCERPROJ | 9,356 | THROUGH 1986 | 07 JAN 86 | 8601(EM) |
| CATLINE | 601,633 | THROUGH 1986 | 20 MAR 86 | |
| CHEMLINE | 667,353 | | 15 FEB 86 | 8602(EM) |
| CLINPROT | 5,298 | | 21 FEB 86 | 8602(EM) |
| DIRLINE | 15,168 | | 24 SEP 85 | |
| HEALTH | 338,313 | JAN 75-APR 86 | 08 MAR 86 | 8604(EM) |
| HISTLINE | 71,572 | | 08 MAR 86 | 8603(EM) |
| MEDLINE | 556,836 | JAN 84-APR 86 | 01 MAR 86 | 8604(EM) |
| MED83 | 286,615 | JAN 83-DEC 83 | 22 MAR 86 | |
| MED80 | 804,756 | JAN 80-DEC 82 | 18 JAN 86 | |
| MED77 | 775,066 | JAN 77-DEC 79 | 08 FEB 86 | |
| MED75 | 642,618 | JAN 75-DEC 76 | 22 FEB 86 | |
| MED71 | 883,317 | JAN 71-DEC 74 | 08 MAR 86 | |
| MED66 | 954,613 | JAN 66-DEC 70 | 07 DEC 85 | |
| MESH VOC | 56,604 | 1986 | 22 MAR 86 | |
| NAME AUTH | 193,645 | | 15 MAR 86 | |
| POPLINE | 145,672 | 1970-MAR 86 | 08 MAR 86 | 8603(EM) |
| RTECS | 80,076 | THROUGH JAN 86 | 21 FEB 86 | |
| SDILINE | 26,004 | APR 86 | 01 MAR 86 | 8604(EM) |
| SERLINE | 66,514 | 1986 | 17 MAR 86 | |
| TOXLINE | 735,162 | | 17 MAR 86 | 8603(EM) |
| CBAC | 409,894 | 1981-VOL 104(3,4) | | |
| TOXBIB | 154,001 | 1981-APR 86 | | |
| IPA (ASHP) | 35,127 | 1981 VOL 23(5,6) | | |
| BIOSIS | 23,615 | FEB 1986 | | |
| HEEP | 49,788 | 1981-VOL 14(8) | | |
| PESTAB | 1,536 | 1981 | | |
| EMIC | 12,899 | 1981-MAR 1986 | | |
| ETIC | 10,906 | 1981-DEC 1985 | | |
| TD3 | 21,876 | 1981-GRA&I 85(26),86(1) | | |
| HMTIC | 1,481 | 1981-JUN 1985 | | |
| ILO | 4,431 | FEB 1986 | | |
| RPROJ/CRISP | 10,016 | FISCAL YEARS 1983 & 1984 | | |
| TOXBACK76 | 555,808 | | 27 AUG 84 | |
| CBAC | 298,383 | 1976-1980 | | |
| TOXBIB | 106,643 | 1976-1980 | | |
| IPA(ASHP) | 33,321 | 1976-1980 | | |
| HEEP | 63,796 | 1976-1980 | | |
| PESTAB | 14,757 | 1976-1980 | | |
| EMIC | 17,267 | 1976-1980 | | |
| ETIC | 11,970 | 1976-1980 | | |
| TD3 | 9,671 | 1976-1980 | | |
| TOXBACK65 | 598,424 | | 27 AUG 84 | |
| CBAC | 287,992 | 1965-1975 | | |
| TOXBIB | 155,387 | 1965-1975 | | |
| IPA(ASHP) | 33,876 | 1969-1975 | | |
| HEEP | 54,075 | 1970-1975 | | |
| HAPAB/PESTAB | 18,416 | 1968-1975 | | |
| EMIC | 19,554 | 1950-1975 | | |
| ETIC | 13,694 | 1950-1975 | | |
| TD3 | 839 | PRE-1965-1975 | | |
| HAYES | 10,039 | 1940-1968 | | |
| TMIC | 4,552 | 1940-1975 | | |

(TOXNET SYSTEM)

| | | | | |
|-------|-------|--|-----------|--|
| CCRIS | 1,092 | | 06 MAR 86 | |
| HSDB | 4,139 | | 11 FEB 86 | |
| TDB | 4,139 | | 01 OCT 85 | |

Editor: Carolyn B. Tilley
 Assistant Editor: T. Scott Plutchak
 Technical Notes Editor: Patricia E. Healy

(301) 496-6193

Direct Inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 Bldg. 38A, Rm. 4N421
 Bethesda, Maryland 20894

Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual, 1982 and Supplement, 1984 that is considered most relevant to the item being discussed, e.g., (Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

NLM ONLINE USERS MEETING AT MLA

The annual NLM Online Users Meeting will be held at the Medical Library Association's Annual Meeting in Minneapolis, Minnesota on Wednesday, May 21 from 11:30 am to 12:30 pm in the Nicollet Grand Ballroom of the Hyatt Regency Hotel.

All NLM users are encouraged to attend. □

MEDLEARN AVAILABLE 24 HOURS

Effective February 14, 1986, MEDLEARN was made available virtually 24 hours a day, seven days a week with the following exception: 11:00 pm to 11:15 pm Eastern Time (ET) daily.

Please note that certain hours of MEDLEARN operation are non-guaranteed. These are: Saturday 5:00 pm ET through Sunday 11:00 pm ET. All other times are guaranteed. □

DOCLINE SERVICE DESK TOLL-FREE NUMBER

DOCLINE, NLM's national automated interlibrary loan request routing and referral system, is currently being implemented within the health science library network. DOCLINE users with questions about the system may call

the DOCLINE Service Desk toll free at 800-633-5666 (within Maryland: 301/496-5511). The DOCLINE Service Desk is staffed from 8:30 am to 5:00 pm Eastern Time, Monday through Friday. Evening callers may leave a message on the telephone answering device and an NLM staff member will return the call at the first available opportunity. □

ISSUE 'STOP Y' AT DISCONNECT

Searchers are reminded to issue the STOP Y command when logging off the MEDLARS® system. Simply hanging-up the telephone should not be used as a routine disconnect. □

MESH VOCABULARY FILE BACKFILE POSTINGS (Manual 6.8.2)

Effective February 11, 1986, the MESH VOCABULARY FILE backfile postings were changed to reflect the current number of asterisked and non-asterisked postings for each MeSH Heading in the MED66 (M66), MED71 (M71), MED75 (M75), MED77 (M77), MED80 (M80), and MED83 (M83) files. Please see the Technical Note in the November 1985 NLM Technical Bulletin, p. 3, titled, "Backfile Postings in the MESH VOCABULARY FILE", or the Online Services Reference Manual, for more information. □

LIST OF JOURNALS INDEXED IN INDEX MEDICUS

The List of Journals Indexed in Index Medicus, 1986 is now available for purchase from the U.S. Government Printing Office. The stock number is

S/N 717-032-00003-9; the U.S. price is \$9.50 (\$11.88 foreign). Orders should be sent to:

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402
(202) 783-3238 (for phone orders)□

CUMULATED INDEX MEDICUS

The 1985 Cumulated Index Medicus, volume 26 is now available for purchase from the U.S. Government Printing Office. The stock number is S/N 617-052-00258-2; the U.S. price is \$196.00 (\$245.00 foreign). Orders should be sent to the address given in the previous Technical Note.□

TUMOR KEY REVISIONS

No new edition of the Technical Notes--MEDLARS Indexing Instructions, Supplement--Tumor Key, will be published in 1986. Searchers with the 1984 edition of the Tumor Key, which

was the last edition published, should consult Appendix A in this issue for a list of changes that should be made to the 1984 edition to keep the information current.□

TOXNET LOGIN INSTRUCTIONS

Appendix B is a revised TOXNET Login Chart. It supersedes the earlier charts published in the June 1985 and November 1985 issues of the NLM Technical Bulletin.□

TOXNET FACT SHEETS

Enclosed with this issue of the NLM Technical Bulletin is a set of TOXNET fact sheets, describing the TOXNET system and the HSDB and CCRIS files. Additional copies may be ordered from Specialized Information Services, National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894. Please enclose a self-addressed label with your request. No postage is necessary.□

Please access FILE INFORM and type NEWS to see the most recent news item online!

CCRIS: File Structure And Searching Fundamentals Of A New TOXNET File

Philip Wexler
Specialized Information Services, NLM

TOXNET's Chemical Carcinogenesis Research Information System (CCRIS) file became available to MEDLARS users on February 25, 1986. This file contains carcinogenicity, tumor promotion, and mutagenicity test results on some 1,200 chemicals. The full scope of this file, its origins, and the sources from which it derives its data are described in the January 1986 NLM Technical Bulletin. This article will concentrate on the CCRIS file structure and searching techniques. Because TOXNET users are initially connected to the HSDB file, they must type FILE CCRIS to move into the CCRIS file.

Figure 1 (on page 6) presents the CCRIS file structure. There are two broad subject categories plus a category for administrative information. The former two categories contain seven data fields. CCRIS does not contain "headers", which in HSDB group together related data fields. (Type EXPLAIN CATEGORY for an online description of the category-header-data field relationship.) On the other hand, CCRIS does contain data "tabs", which, although not individually searchable, serve to uniformly arrange test results. Figure 2 (page 7) illustrates the CCRIS file structure terminology.

The DTYP (Data Type) field provides an easy way to identify which study types (i.e., carcinogenicity, mutagenicity, or tumor promotion) are part of the chemical record. CSTU (Carcinogenicity Studies), TSTU (Tumor Promotion Studies), and MSTU (Mutagenicity

Studies) are all "repeating" data fields, as is DTYP. This means there may be multiple occurrences of data in each of these fields (i.e., there may be several carcinogenicity, mutagenicity, or tumor promotion studies for any given chemical).

Data tabs cannot be individually searched. Thus, a search for all rats used in carcinogenicity studies must take the form RAT (CSTU). One cannot search specifically in the Species data tab. Neither are the data tab names themselves searchable. Thus, one cannot search for SPECIES (CSTU). The Reference subfield is used for display purposes only. None of the words of the reference are searchable. Data tabs are always spelled in full. They have not been assigned mnemonics since they are not searchable. The data tabs for any given study are filled in to the extent that the information was available in the original report. Thus, if the original study did not specify a strain, the Strain/Sex data tab will not include animal strain data. Remember too, that CCRIS contains some human carcinogenicity data and one can search HUMAN (CSTU). There is also information on human tissue studies in the MSTU field.

Another valuable feature of CCRIS is its controlled vocabulary. Although free-text searching is always permissible in the TOXNET system, CCRIS' controlled vocabulary can improve search efficiency and reduce the need for truncation. For example, users interested in hamster studies, can enter the correct term HAMSTER, and not worry about word variants or synonyms or plurals. Indeed, the word HAMSTERS will yield no postings. The possibility of making the CCRIS vocabulary accessible both online and in printed form is being considered. If such enhancements become available, they will be announced as a TOXNET NEWS BULLETIN. Meanwhile, users are advised to make use of the

NEIGHBOR command to determine the correct search term. Remember, too, that TOXNET NEIGHBORS down only. NEIGHBORing HAMSTERS will not display the proper term, HAMSTER, but NBR HAMST will.

Users interested in comprehensive carcinogenesis data should also consider searching the HSDB file,

particularly the fields within the TOX (Toxicity Excerpts) and TOXV (Toxicity Values) headers. Citations to current literature on cancer, including carcinogenesis, are also available in a number of ELHILL files, such as CANCERLIT and MEDLINE. With the addition of CCRIS to TOXNET, NLM becomes a truly indispensable resource for worldwide carcinogenicity data. □

| CCRIS File Structure | |
|----------------------|--|
| 0. | **Administrative Information |
| CCN | CCRIS Number |
| RLEN | Record Length |
| DATE | Last Revision Date |
| ALPH | Alpha Sort |
| 1. | ** Substance Identification/Use |
| ID | Substance Name |
| NAME | CAS Registry Number |
| RN | Major Use Class |
| USE | Data Type |
| DTYP | |
| 2. | **Carcinogenicity/Mutagenicity Data |
| CARC | |
| CSTU | Carcinogenicity Studies |
| | Species |
| | Strain/Sex |
| | Route |
| | Dose |
| | Tumor Site: Type Of Lesion |
| | Results |
| | Reference |
| TSTU | Tumor Promotion Studies |
| | Species |
| | Strain/Sex |
| | Route (Promoter) |
| | Target Tissue: Type Of Lesion |
| | Doses (Promoter) |
| | Carcinogen |
| | Route (Carcinogen) |
| | Doses (Carcinogen) |
| | Reference |
| MSTU | Mutagenicity Studies |
| | Test System |
| | Strain/Indicator |
| | Metabolic Activation |
| | Method |
| | Dose Range |
| | Reference |

Figure 1

CCRIS File Structure Terminology

| | | | |
|------|----|-----------------------------------|---------------|
| CARC | ** | CARCINOGENICITY/MUTAGENICITY DATA | -- Category |
| CSTU | | Carcinogenicity Studies | -- Data Field |
| | | Species | -- Data Tabs |
| | | Strain/Sex | |
| | | Route | |
| | | Dose | |

Figure 2

CCRIS Search Examples (Examples 1 and 4 show incomplete records)

What chemicals have tested negative in carcinogenicity tests but positive in mutagenicity assays?

SS 1 /C?
 USER:
 neg (cstu) and all mutagen: (dtyp)
 SS (1) PSTG (27)

SS 2 /C?
 USER:
 prt 1 dl

```
CCN - 19
DATE - 851219
ALPH - ALLYLCHLORIDE
RLEN - 414
NAME - ALLYL CHLORIDE
RN - 107-05-1
DTYP - Carcinogenicity
DTYP - Mutagenicity
CSTU - SPECIES          RAT
      STRAIN/SEX       OSBORNE-MENDEL/FEMALE
      ROUTE            GAVAGE (INTRAGASTRIC)
      DOSE              0; 55; 73 MG/KG, TWA
      RESULTS          NEG
      REFERENCE        [NCI/NTP CARCINOGENESIS TECHNICAL REPORT
                       SERIES, NATIONAL CANCER INSTITUTE/NATIONAL
                       TOXICOLOGY PROGRAM, U.S. DEPARTMENT OF HEALTH
                       AND HUMAN SERVICES, 73 Y78]
```

```
CSTU - SPECIES          RAT
      STRAIN/SEX       OSBORNE-MENDEL/MALE
      ROUTE            GAVAGE (INTRAGASTRIC)
      DOSE              0; 57; 77 MG/KG, TWA
      RESULTS          NEG
      REFERENCE        [NCI/NTP CARCINOGENESIS TECHNICAL REPORT
                       SERIES, NATIONAL CANCER INSTITUTE/NATIONAL
                       TOXICOLOGY PROGRAM, U.S. DEPARTMENT OF HEALTH
                       AND HUMAN SERVICES, 73 Y78]
```

•••

Example 1

What dyes have been tested for mutagenicity using the Ames assay?

SS 1 /C?
 USER:
 dyes (use) and ames (mstu)
 SS (1) PSTG (14)

SS 2 /C?
 USER:
 prt 5 only name rn

NAME - 4-AMINOAZOBENZENE
 RN - 60-09-3

NAME - O-AMINOAZOTOLUENE
 RN - 97-56-3

NAME - BENZIDINE
 RN - 92-87-5

NAME - BENZYL VIOLET 4B
 RN - 1694-09-3

NAME - C.I. DIRECT BLUE 6
 RN - 2602-46-2

Example 2

Is there evidence for the production of pulmonary carcinomas associated with the oral administration of chemicals to non-Fischer rats?

SS 1 /C?
 USER:
 same (cstu) rat and oral and lung and carcinoma and not fischer
 4 OCCURRENCES IN 3 RECORDS
 SS (1) PSTG (3)

SS 2 /C?
 USER:
 prt 1 hits indented

CHEMICAL CARCINOGENESIS 190
 RECORD NUMBER
 NAME OF SUBSTANCE DACARBAZINE
 CARCINOGENICITY STUDIES
 SPECIES: RAT
 STRAIN/SEX: SPRAGUE-DAWLEY/FEMALE
 ROUTE: ORAL
 DOSE: 346; 574; 740 MG/KG (TOTAL DOSE)
 TUMOR SITE: TYPE OF LESION: MAMMARY GLANDS:
 ADENOCARCINOMA, CARCINOMA, ADENOFIBROMA
 THYMUS GLAND: LYMPHOSARCOMA
 SPLEEN: LYMPHOSARCOMA
 BRAIN: EPENDYMOMA
 LUNG: ALVEOLAR SARCOMA
 RESULTS: POS
 REFERENCE: [IARC MONOGRAPHS ON THE EVALUATION OF THE
 CARCINOGENIC RISK OF CHEMICALS TO HUMANS, INTERNATIONAL
 AGENCY FOR RESEARCH ON CANCER, LYON, FRANCE, V26 203
 781]

Example 3

What is known experimentally about the carcinogenicity of phenol?

SS 1 /C?
 USER:
 phenol (name)
 SS (1) PSTG (1)

SS 2 /C?
 USER:
 prt 1 cstu tstu indented

CHEMICAL CARCINOGENESIS 504
 RECORD NUMBER
 NAME OF SUBSTANCE PHENOL

CARCINOGENICITY STUDIES
 SPECIES: MOUSE
 STRAIN/SEX: B6C3F1/FEMALE
 ROUTE: ORAL
 DOSE: 0; 2500; 5000 PPM IN DIET
 RESULTS: NEG
 REFERENCE: [NCI/NTP CARCINOGENESIS TECHNICAL REPORT
 SERIES, NATIONAL CANCER INSTITUTE/NATIONAL TOXICOLOGY
 PROGRAM, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES,
 203 Y80]

CARCINOGENICITY STUDIES
 SPECIES: MOUSE
 STRAIN/SEX: B6C3F1/MALE
 ROUTE: ORAL
 DOSE: 0; 2500; 5000 PPM IN DIET
 RESULTS: NEG
 REFERENCE: [NCI/NTP CARCINOGENESIS TECHNICAL REPORT
 SERIES, NATIONAL CANCER INSTITUTE/NATIONAL TOXICOLOGY
 PROGRAM, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES,
 203 Y80]

•••

Example 4

Training Trainers At MLA

"Teaching MEDLINE to the Health Professional: A Workshop for Search Intermediaries", the NLM "Training Trainers" workshop, will be held in conjunction with the Medical Library Association's Annual Meeting on Friday, May 23, 1986. This workshop will be sponsored by the Midlands Online Services Training Center (the Midcontinental Regional Medical Library Program, University of Nebraska) and taught by Helen-Ann Brown. The workshop will be held at the Minneapolis Public Library, Room 310, Nicollet Mall, Minneapolis, Minnesota from 8:30 am until 4:30 pm.

The "Training Trainers" workshop is open to any MEDLARS searcher who has attended the Initial Online Services Training Class and intends to present "The Basics of Searching MEDLINE" to

health professionals. The course will review subject areas to cover as well as providing teaching hints and tips on what's special about teaching adults.

The Midlands Online Services Training Center is conducting this workshop under contract with the National Library of Medicine under a "cost-recovery" program. Charges for the workshop will be \$40.00.

Please complete the registration form below and mail it with a check made payable to the McGoogan Library of Medicine to:

Helen-Ann Brown
Midcontinental Regional
Medical Library Program
University of Nebraska
McGoogan Library of Medicine
42nd and Dewey Avenue
Omaha, NE 68105-1065



"TEACHING MEDLINE TO THE HEALTH PROFESSIONAL"
Post-MLA -- Friday, May 23, 1986
Minneapolis, Minnesota

Name: _____

Organization: _____

Street Address: _____

City, State, Zip: _____

Phone: () _____ ext. _____

User ID Code : _____

****DON'T FORGET PAYMENT OF \$40.00****

Citing A Database

Peggy J. Beavers
MEDLARS Management Section, NLM

Several information vendors/suppliers are offering online the full text of books and journal articles, and compiled data from various sources. These online databases or data banks are consulted for information, and sometimes need to be referenced in papers. The MEDLARS Management Section Service Desk has received several requests for the proper reference format.

Figure 1 provides various formats that may be used to cite a database, or a portion thereof, as interpreted by NLM from the 1977 national standard (American National Standard for Bibliographic References. New York: American National Standards Institute,

Inc., 1977. 92 p. (ANSI Z39.29-1977)).

Please be aware that this standard is currently under revision. If the approved revision results in changes to the information below, we will publish the corrections.

NLM suspects that citing a portion of a data bank is more common than citing a portion of a bibliographic database. However, the need for the latter may exist. For example, the same citation may have different abstracts in different databases in which it has been included. It may then be necessary to indicate the online database source of that abstract. In most cases, though, the national standard recommends a direct reference to the journal source rather than to the database. In the last example in Figure 1, for example, the reference would stop after the pagination of the journal article. □

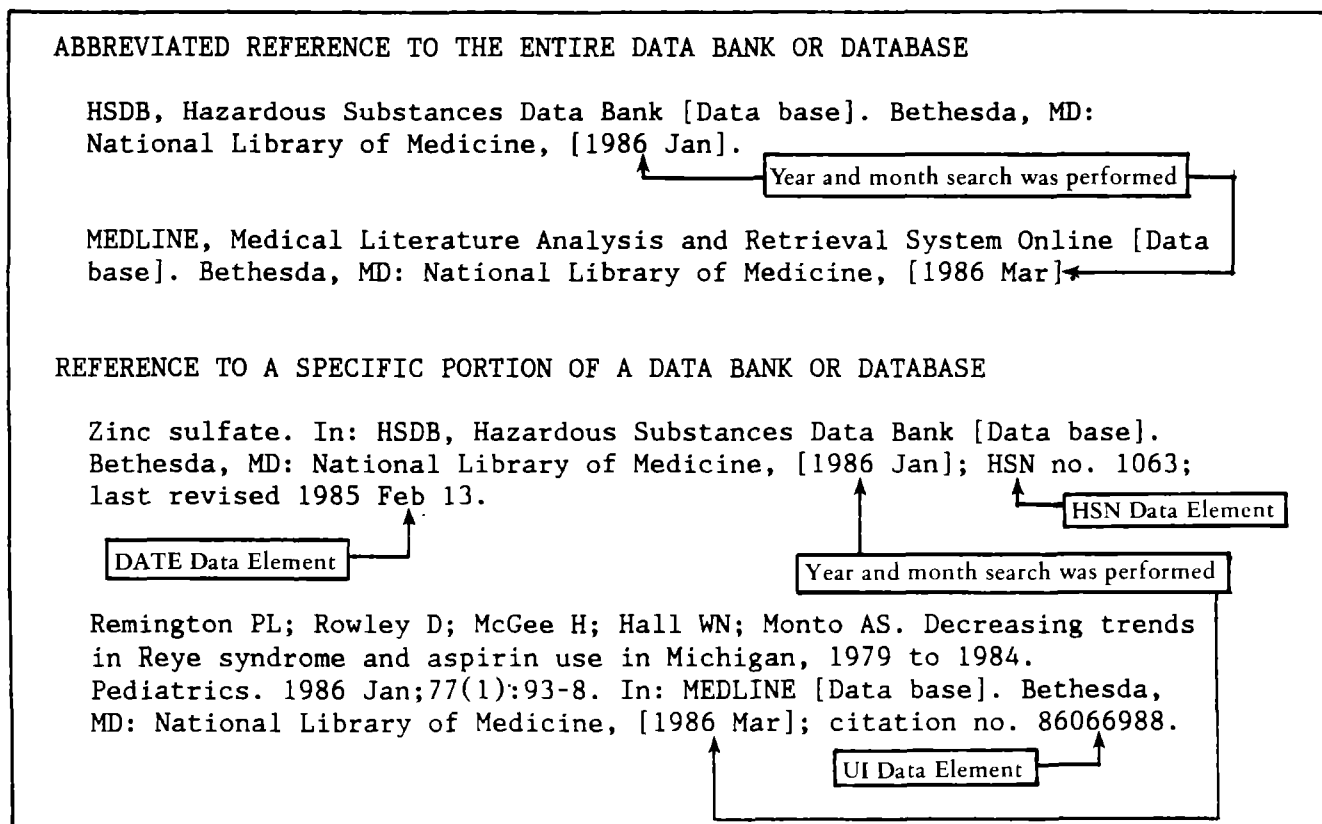


Figure 1

Monthly Search Hint

The RENAME Command

Harriet Rusin
MEDLARS Management Section, NLM

T. Scott Plutchak
Index Section, NLM

The MEDLARS Management Service Desk has received a number of calls recently from users who have inadvertently named a SAVESEARCH using the word AND as part of the name, forgetting that the word is a logical operator. As a result, the SAVESEARCH cannot be used under that name. It is best to remove the SAVESEARCH, re-input the strategy, and name the search correctly.

However, the RENAME command (discussed in Section 4.9.19 of the Online Services Reference Manual) can also be used to make use of the SAVESEARCH as is. This command allows the user to rename any command or logical operator. The term substituted may be any symbol (such as & for AND) or word not already considered by ELHILL to be either a command or a logical operator.

In the example shown in Figure 1 (page 13), the system does not originally recognize the name of the SAVED search and interprets the word AND as the logical operator. After using the RENAME command, however, the searchname is recognized and the search is processed correctly. It is important to cancel the change after making use of it because later uses of the logical operator affected by the change will not be recognized. The RENAME command may be cancelled by renaming the term back to its default name, using the RESTART command, or logging off.

Since the RENAME command is only in effect during a single terminal session, it will still be necessary to delete the SAVED search containing the logical operator in the name and re-enter it under a correct name in order to avoid having to use the RENAME command every time the search is used. The RENAME command does, however, present a handy way to get around this problem on a temporary basis if it does occur.

Consult the Online Services Reference Manual, Section 5.3.2.1, for details on the naming conventions and requirements for SAVESEARCHes. □

Using the RENAME command.

```

SS 1 /C?
USER:
parkinson and l-dopa (sn)
PROG:
NP (PARKINSON)
STORED SEARCH 'L-DOPA' EITHER MISSING OR MULTIPLY DEFINED.

SS 1 /C?
USER:
rename and to &
PROG:
'AND' HAS NOW BEEN RENAMED TO '&'.

```

(Program interprets AND as a logical operator and does not find the search)

```

SS 1 /C?
USER:
parkinson and l-dopa (sn)
PROG:
SS (1) PSTG (241)

```

(After RENAMing, AND is viewed as any other word)

```

SS 2 /C?
USER:
1 and adult
PROG:
NP (1 AND ADULT)

```

(AND no longer functions as a logical operator)

```

SS 2 /C?
USER:
rename & to and
PROG:
'&' HAS NOW BEEN RENAMED TO 'AND'.

```

(Normal use of AND is restored)

```

SS 2 /C?
USER:
1 and adult
PROG:
TIME OVFLW: CONT? (Y/N)

USER:
Y
PROG:
SS (2) PSTG (69)

```

```

SS 3 /C?
USER:
save parkinson and l-dopa remove
PROG:
SAVED SEARCH 'PARKINSON AND L-DOPA' DELETED.

```

(SAVESEARCH can be deleted and re-entered under a different name)

```

SS 3 /C?
USER:

```

Figure 1

SERIALS UPDATE

INDEXED TITLES UPDATE, MARCH 1986

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last

UPDATE. More detailed information about each title may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, FEBRUARY 1986

IM ACCIDENT ANALYSIS AND PREVENTION
 ACCID ANAL PREV
 1,1969--
 PERGAMON PRESS
 OXFORD ENGLAND
 CONTAINS FULL TEXTS OF PAPERS SYNOPSISIZED IN
 PART S. NLM COLLECTS MICROFICHE EDITION OF
 PART M AND HARD COPY OF PART S.
 INDEXING BEGAN WITH V17N1,1985.
 W1 AC69K 0001-4575
 A03150000 JTC: ACS

IM ARCTIC MEDICAL RESEARCH
 ARCTIC MED RES
 N37,1984--
 NORDIC COUNCIL FOR ARCTIC MEDICAL RESEARCH
 OULU FINLAND
 CONTINUES: NORDIC COUNCIL FOR ARCTIC
 MEDICAL RESEARCH REPORT.
 INDEXING BEGAN WITH V39,1985.
 W1 AR7558D 0355-9823
 SR0052431 JTC: ABR
 NORDIC COUNCIL FOR ARCTIC MEDICAL
 RESEARCH, AAPISTIE 3, 90220 OULU 22,
 FINLAND

IDL ADA NEWS
 ADA NEWS
 1,JUL 6 1970--
 AMERICAN DENTAL ASSOCIATION
 CHICAGO UNITED STATES
 INDEXING BEGAN WITH V16N1,JAN 1985.
 W1 A1144 0001-0855
 A11925000 JTC: ADN
 AMERICAN DENTAL ASSOCIATION,211 E.
 CHICAGO AVE.,CHICAGO IL 60611

IM ARTHROSCOPY
 ARTHROSCOPY
 1N1,1985--
 RAVEN PRESS
 NEW YORK UNITED STATES
 OFFICIAL JOURNAL OF THE ARTHROSCOPY
 ASSOCIATION OF NORTH AMERICA AND THE
 INTERNATIONAL ARTHROSCOPY ASSOCIATION.
 INDEXING BEGAN WITH V1N1,1985.
 W1 AR953YD 0749-8063
 SR0052437 JTC: ABT
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 W1 AN103Z 0323-4983
 A26620000 JTC: ACU
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 SR0056128 JTC: AHB
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 IM ANNU REV NURS RES
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 NEW YORK UNITED STATES
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 W1 AN778CF 0739-6686
 A54185000 JTC: ARR

- IM BIOTECHNOLOGY AND GENETIC ENGINEERING
REVIEWS
BIOTECHNOL GENET ENG REV
1,1984--
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NEWCASTLE UPON ENGLAND
TYNE
INDEXING BEGAN WITH V1,1984.
W1 BI918Q 0264-8725
SR0054055 JTC: ADG
INTERCEPT LTD, P.O. BOX 2 PONTELAND,
NEWCASTLE UPON TYNE NE20 9EB, ENGLAND
- IM BLOOD PURIFICATION
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1N1/2,SEP 1983--
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W1 BL661G 0253-5068
B21320150 JTC: AJ6
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- HLI CARE GIVER
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1N1,JUL 1984--
AMERICAN PROTESTANT HEALTH ASSOCIATION
SCHAUMBURG IL UNITED STATES
OFFICIAL JOURNAL OF THE COLLEGE OF
CHAPLAINS OF THE AMERICAN PROTESTANT HEALTH
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COLLEGE OF CHAPLAINS,AMERICAN PROTESTANT
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WOODFIELD RD.,SCHAUMBURG IL 60195
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NEW YORK UNITED STATES
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W1 CE35T 0737-5999
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1N1,FEB 1985--
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W1 CL831BGC 0749-0690
SR0055097 JTC: CLN
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SQUARE,PHILADELPHIA PA 19105
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CRIT REV THER DRUG CARRIER SYST
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W1 CR216ZF 0743-4863
SR0053950 JTC: CRI
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RATON FL 33431
- IDL DENTAL-REVUE
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SR0054749 JTC: EBO
THIS ORDER FOR CHECKIN SYSTEM ONLY.
- IDL DENTAL THERAPEUTICS NEWSLETTER
DENT THER NEWSL
1N4 MAY,1984--
DENTAL THERAPEUTICS NEWSLETTER
DETROIT MI UNITED STATES
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SR0052113 JTC: DEO
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32594, DETROIT MI 48232
- IM DERMATOLOGIC CLINICS
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1N1,JAN 1983--
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W1 DE501B 0733-8635
D05745000 JTC: DER
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SQUARE,PHILADELPHIA PA 19105
- IDL GIORNALE DI ANESTESIA STOMATOLOGICA
G ANEST STOMATOL
1N1,1972?--
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W1 HA51D 0749-0712
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MINERVA MEDICA, INTERNATIONAL ANGIOLOGY,
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J CLIN MONIT
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W1 J05893ME 0748-1977
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STREET, BOSTON MA 02106
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J PINEAL RES
1N1,1984--
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W1 J0837AC 0742-3098
SR0051968 JTC: JND
ALAN R. LISS,150 FIFTH AVENUE,NEW YORK
NY 10011.
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J SPORTS SCI
1N1,SPRING 1983--
E AND FN SPON
LONDON ENGLAND
INDEXING BEGAN WITH V3N1,1985
W1 J0903P 0264-0414
J39550000 JTC: KBT
E AND FN SPON,11 NEW FETTER LN, LONDON
EC4P 4EE ENGLAND
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25,ABINGDON,OXFORDSHIRE OX14 3UE,ENGLAND
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- INI NURSE EDUCATION TODAY
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EDINBURGH SCOTLAND
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W1 NU5523 0260-6917
N34370000 JTC: NED
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1N1,SPRING 1985--
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SR0052331 JTC: NUP
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1,1978--
SLACK
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VOL. FOR APR. 1981 IS CALLED V. 5, NO. 4
BUT CONSTITUTES V. 4 NO. 4.
INDEXING BEGAN WITH V8N1,1985
W1 OR812A 0147-7447
O11080000 JTC: PCM
- IDL PHILLIP JOURNAL FUR RESTAURATIVE ZAHNMEDIZIN
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1N1,1ST QUARTER 1984--
PHILLIP VERLAG
MUNCHEN GERMANY, WEST
INDEXING BEGAN WITH V1N1,1984.
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SR0055867 JTC: Q0A

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| <p>IM POLICY STATEMENT / ROYAL COLLEGE OF GENERAL PRACTITIONERS POLICY STATEMENT R COLL PRACT 1985-- ROYAL COLLEGE OF GENERAL PRACTITIONERS LONDON ENGLAND INDEXING BEGAN WITH N.1, NOV 1985. IN PROCESS SR0056102 JTC: POL THE ROYAL COLLEGE OF GENERAL PRACTITIONERS, 14 PRINCES GATE, HYDE PARK, LONDON SW7 1PU, ENGLAND</p> | <p>IM PUERTO RICO HEALTH SCIENCES JOURNAL P R HEALTH SCI J 1N1, MAR 1982-- UNIVERSITY OF PUERTO RICO MEDICAL SCIENCES CAMPUS SAN JUAN PR PUERTO RICO INDEXING BEGAN WITH V4N1, 1985 W1 PU787JR 0738-0658 P60565000 JTC: QJF PUERTO RICO HEALTH SCIENCES JOURNAL, UNIVERSITY OF PUERTO RICO MEDICAL SCIENCES CAMPUS, G.P.O. BOX 5067, SAN JUAN PR 00936</p> |
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TITLE CHANGES, FEBRUARY 1986

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| <p>IM ARCHIVES OF OTOLARYNGOLOGY -- HEAD AND NECK SURGERY ARCH OTOLARYNGOL HEAD NECK SURG 112N1, JAN 1986-- AMERICAN MEDICAL ASSOCIATION CHICAGO UNITED STATES CONTINUES: ARCHIVES OF OTOLARYNGOLOGY. W1 AR464P 0886-4470 SR0055921 JTC: ALQ</p> | <p>IM JOURNAL OF NEUROSCIENCE NURSING INI J NEUROSCI NURS 18N1, FEB 1986-- AMERICAN ASSOCIATION OF NEUROSCIENCE NURSES PARK RIDGE IL UNITED STATES CONTINUES: JOURNAL OF NEUROSURGICAL NURSING. W1 JO795BT 0047-2603 SR0055967 JTC: IJ6</p> |
| <p>IM BIOMEDICAL AND ENVIRONMENTAL MASS SPECTROMETRY BIOMED ENVIRON MASS SPECTROM 13N1, JAN 1986-- JOHN WILEY AND SONS CHICHESTER ENGLAND CONTINUES: BIOMEDICAL MASS SPECTROMETRY. W1 BI853TR 0306-042X SR0055910 JTC: BIP</p> | <p>INI JOURNAL OF PAIN AND SYMPTOM MANAGEMENT J PAIN SYMPTOM MANAGE 1N1, WINTER 1986-- DEPARTMENT OF ANESTHESIOLOGY, UNIVERSITY OF WISCONSIN MADISON WI UNITED STATES CONTINUES: PRN FORUM. IN PROCESS 0885-3924 SR0055570 JTC: IJJ</p> |
| <p>IM STRAHLENTHERAPIE UND ONKOLOGIE STRAHLENTHER ONKOL 162N1, JAN 1986-- URBAN UND SCHWARZENBERG MUNCHEN GERMANY, WEST CONTINUES: STRAHLENTHERAPIE. W1 ST797R 0039-2073 SR0055911 JTC: VCM</p> | |

CORRECTION: The *NLM Technical Bulletin*, No. 200, December 1985, reported that *Nursing Times* absorbed *Nursing Mirror* with Vol. 81, No. 146, 1985. The correct issue no. is 46. This note has been changed in SERLINE.

TITLES NO LONGER INDEXED AS OF FEBRUARY 1986

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| <p>IM ACTA VITAMINOLOGICA ET ENZYMOLOGICA ACTA VITAMINOL ENZYMOL 21,1967-32,1978;NS1,1979-7N3/4,1985 OFFICINE GRAFICHE GARZANTI MILANO ITALY CONTINUES ACTA VITAMINOLOGICA. DUPLICATE JTC 28T ASSIGNED 810128 AND DELETED 820428. W1 AC9564 0300-8924 A09886000 JTC: 28S</p> | <p>IM INTERNATIONAL REVIEW OF CYTOLOGY. SUPPLEMENT INT REV CYTOL [SUPPL] N1,1969-16,1983 ACADEMIC PRESS NEW YORK UNITED STATES W1 IN832A 0074-770X I29980000 JTC: GUA</p> |
| <p>IM ARIZONA MEDICINE ARIZ MED 1,1944-42N7,JUL 1985 ARIZONA MEDICINE PHOENIX AZ UNITED STATES W1 AR796 0004-1556 A65550000 JTC: 8N6</p> | <p>IM TRUDY INSTITUTA IMENI PASTERA TR INST PASTERA 43,1975-61,1983 INSTITUTA IMENI PASTERA LENINGRAD USSR CONTINUES TRUDY LENINGRADSKOGO NAUCHNO-ISSLEDOVATELSKOGO INSTITUTA EPIDEMIOLOGII I MIKROBIOLOGII IM. PASTERA. W1 TR951TI 0202-1447 T22350000 JTC: VZG</p> |

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES--FEBRUARY 1986

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH, and POPLINE are listed in the "INDEXED TITLES UPDATE" section. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill

loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ADVANCES IN NEUROTRAUMATOLOGY
 1,1986--
 SPRINGER-VERLAG
 WIEN AUSTRIA
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 SR0055984 \$49.00

AIDS-INFORMATIONSDIENST
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 SR0055937 \$79.00

ALTERNATIVE MEDICINE DIGEST
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ANNALS OF VASCULAR SURGERY
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 ANNALS OF VASCULAR SURGERY
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 SR0056051 \$90.00
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 HOSPITAL, 3990 JOHN R., DETROIT MI 48201

APOTHEKE UND KRANKENHAUS
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 DEUTSCHER APOTHEKER-VERLAG
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 SR0055949 \$20.00

ARCHIVES FOR METEOROLOGY, GEOPHYSICS, AND
 BIOCLIMATOLOGY. SERIES B, THEORETICAL AND
 APPLIED CLIMATOLOGY
 36N1,1985--
 SPRINGER VERLAG
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 RADIATION RESEARCH.
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 SR0055840 \$85.00

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 PMI-VERLAG
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 HONG KONG UNIVERSITY PRESS
 KOWLOON HONG KONG
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 SR0055969
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 1,1984--
 GRUNENTHAL GMBH
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 AO, B, BC, BT, H, M, MD, OE, AND S.
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 SR0055856
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ICRDB CANCERGRAM: CANCER RESEARCH
TECHNIQUES AND APPLICATIONS
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NATIONAL CANCER INSTITUTE
BETHESDA MD UNITED STATES
CONTINUES: ICRDB CANCERGRAM: CANCER
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SR0056084

ICRDB CANCERGRAM. METASTASIS
N86/01, JAN 1986--
U.S. NATIONAL CANCER INSTITUTE
BETHESDA MD UNITED STATES
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SR0056081
ICRDB/NCI, BLDG 82/RM 103, NIH, BETHESDA MD
20205

ICRDB CANCERGRAM: ORGAN SITE
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1, APR 1986--
NATIONAL CANCER INSTITUTE
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SR0056082
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20205

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INDIAN VIROLOGICAL SOCIETY
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INDIAN VIROLOGICAL SOCIETY, DR. NARAYAN
RISHI, HARYANA AGRICULTURAL
UNIVERSITY, HISAR-125004, INDIA

JOURNAL OF BONE AND MINERAL RESEARCH
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MARY ANN LIEBERT
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ON ORDER
SR0055851 \$95.00
MARY ANN LIEBERT INC, 157 EAST 86TH
STREET, NEW YORK NY 10028

JOURNAL OF CANCER EDUCATION
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1, 1985--
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NEWS IN PHYSIOLOGICAL SCIENCES
1, FEB 1986--
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SR0056099 \$50.00
WILLIAMS & WILKINS, P.O. BOX 1496,
BALTIMORE MD 21203

OPTICAL MANAGEMENT
1984--
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NEW YORK UNITED STATES
CONTINUES: EUROPEAN PAEDIATRIC HAEMATOLOGY
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AVE., NEW YORK NY 10016

PEDIATRIKA
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GRUTESA
MADRID SPAIN
CONTINUES: CIENCIA PEDIATRIKA.
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SR0055922
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19.182, MADRID, SPAIN

PHARMACEUTICAL MANUFACTURING
IN1, 1985--
CANNON COMMUNICATIONS
SANTA MONICA CA UNITED STATES
CONTINUES: PARTICULATE AND MICROBIAL
CONTROL.
IN PROCESS
SR0055978 \$18.00
CANON COMMUNICATIONS, 2422 WILSHIRE
BLVD, SANTA MONICA CA 90403

PSYCHIATRIE FUR DIE PRAXIS
1986?--
MEDIZIN-VERLAG
MUNCHEN GERMANY, WEST
ON ORDER
SR0055935

REVISTA CUBANA DE ONCOLOGIA
 IN1, JAN-APR 1985--
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 MEDICAS
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 SR0055930
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 Y O LA RAMPA, VEDADO, APARTADO
 NO.6520, CIUDAD DE LA HABANA, CUBA

ROUXS ARCHIVES OF DEVELOPMENTAL BIOLOGY
 195N1, 1986--
 SPRINGER-VERLAG
 BERLIN GERMANY, WEST
 CONTINUES: WILHELM ROUXS ARCHIVES OF
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 IN PROCESS
 SR0055955 \$383.00

TOPICS IN PAIN MANAGEMENT
 IN1, JUN 1985--
 PSG PUBLISHING
 LITTLETON MA UNITED STATES
 ON ORDER
 SR0056120 \$35.00
 MANAGING EDITOR, TOPICS IN PAIN
 MANAGEMENT, 545 GREAT RD., LITTLETON MA
 01460

APPENDIX A

The material in this appendix is taken entirely from the 1986 NLM Indexing Orientation packet.

TUMOR KEY

No new TUMOR KEY is being issued for 1986. MeSH made only three changes in Category C4:

MYOSARCOMA became MYOSARCOMA see under SARCOMA
MYXOSARCOMA became MYXOSARCOMA see under SARCOMA

ANGIOSARCOMA became HEMANGIOSARCOMA

The first two appear only on pages 29 and 30 but it is not necessary for you to change the key since you would be required by policy to index under MYOSARCOMA and MYXOSARCOMA where applicable.

Although ANGIOSARCOMA was retained as a see reference to the 1986 HEMANGIOSARCOMA, in the interests of consistency you ought to annotate your keys as shown on the next page.

You will find here also a reproduction of three pages from last year's Orientation packet. New indexers and new searchers will want to annotate their TUMOR KEY for the most efficient use.

1986

On page iii of the introduction, in the first paragraph, change the two readings of ANGIOSARCOMA to HEMANGIOSARCOMA.

On the pages noted below, change the word ANGIOSARCOMA each time to HEMANGIOSARCOMA at the following entries:

| | |
|--------|--|
| Page 5 | angioblastoma |
| | angiofibrosarcoma |
| 6 | angiomyoliposarcoma |
| | angiomyosarcoma |
| | angiosarcoma (unspecified) |
| 21 | hemangioblastoma |
| | hemangioendothelioblastoma |
| | hemangioendotheliosarcoma |
| 22 | hemangiosarcoma |
| | hematoblastoma |
| 28 | meningioma, angioblastic |
| 37 | sarcoma, angioblastic (except genital) |
| | sarcoma, capillary |
| 38 | sarcoma, perivascular |

TUMOR KEY

No new TUMOR KEY is being issued. There are some 1985 changes brought about by MeSH changes. Below are not only the changes for 1985 but those wrought in 1983 and 1984. Modify the entries to read like the entries below. The date in the last column shows when the change was made. You are reminded that when the entry in MeSH is a formal see reference, the TUMOR KEY reading says "see".

| Page | Entry | Date |
|------|---|------|
| 3 | adenocarcinoma, renal cell see CARCINOMA, RENAL CELL | 1985 |
| 8 | carcinoma, Bowen's type, intra- epidermal squamous cell - BOWEN'S DISEASE | 1983 |
| 9 | carcinoma, hypernephroid see CARCINOMA, RENAL CELL | 1985 |
| 10 | carcinoma, non-infiltrating intra- ductal - CARCINOMA, DUCTAL + CARCINOMA IN SITU | 1983 |
| 11 | carcinoma, renal cell - CARCINOMA, RENAL CELL | 1985 |
| 13 | cyst, corpus luteum - OVARIAN CYSTS | 1985 |
| 14 | cyst, sebaceous - EPIDERMAL CYST | 1984 |
| 16 | disembryoma - TERATOMA | 1985 |
| | dysembryoma see TERATOMA | 1985 |
| 17 | epithelioma, Bowen's - BOWEN'S DISEASE | 1983 |

| Page | Entry | Date |
|------|--|------|
| 21 | hamartoma, vascular - HEMANGIOMA | 1983 |
| 22 | hypernephroma see CARCINOMA, RENAL CELL | 1985 |
| 26 | lymphangi endothelioma see LYMPHANGIOMA | 1984 |
| 29 | myoepithelioma see MYOEPITHELIAL TUMOR | 1984 |
| 33 | osteoblastoclastoma - OSTEOMA, OSTEOID + GIANT CELL TUMORS | 1983 |
| | osteoblastoma see OSTEOMA, OSTEOID | 1985 |
| 35 | polyp, colonic - COLONIC POLYPS | 1984 |
| | polyp, larynx - POLYPS | 1983 |
| 39 | sebocystomatosis - EPIDERMAL CYST | 1984 |
| 39 | steatocystoma - EPIDERMAL CYST | 1984 |
| | steatocystoma multiplex - EPIDERMAL CYST | 1984 |
| | steatoma multiplex - EPIDERMAL CYST | 1984 |
| | syringoma, chondroid see HIDRADENOMA | 1985 |
| 40 | teratoma, cystic see DERMOID CYST | 1985 |
| | teratoma, mature see DERMOID CYST | 1985 |
| 41 | tumor embolus - NEOPLASM CIRCULATING CELLS | 1985 |
| | tumor, germ cell - NEOPLASMS, EMBRY- ONAL AND MIXED | 1983 |

REPRODUCTION
from 1985
packe'

| Page | Entry | Date |
|------|--|------|
| 42 | tumor, Grawitz (except ovary) - CARCINOMA, RENAL CELL | 1985 |
| 43 | tumor, rete cell - TESTICULAR NEOPLASMS | 1984 |
| 44 | xanthogranuloma - GRANULOMA (not neoplastic) + XANTHO- MATOSIS | 1983 |

APPENDIX B

ACCESS TO TOXNET

| | <u>TELENET</u> | <u>TYMNET</u> | <u>Direct Dial</u> |
|-----------------------|---|--|---|
| <u>User Response:</u> | Dial TELENET number. Connect phone to terminal. (CR) (CR) ^① | Dial TYMNET number. Connect phone to terminal. | Dial (301)946-1184. Connect phone to terminal. |
| <u>System Prompt:</u> | TERMINAL= | Prints 1-2 lines of stray characters, <u>or</u> PLEASE TYPE YOUR TERMINAL IDENTIFIER | |
| <u>User Response:</u> | Enter terminal identifier. ^② | Enter terminal identifier. ^② | |
| <u>System Prompt:</u> | @ ^③ ^④ | PLEASE LOG IN: ^③ ^④ | |
| <u>User Response:</u> | C 301 633 <u>or</u> C 301 634 | TOXNET (CR) | |
| <u>System Prompt:</u> | 301 633 Connected <u>or</u> 301 634 Connected | P# (where # = a digit) HOST IS ONLINE | |
| <u>User Response:</u> | | (CR) ^⑤ | (CR) ^⑤ |

*From here on, logon procedures are the same for all access methods***

System Prompt: Welcome to the National Library of Medicine's
Toxicology Data Network (TOXNET).
Please enter USERID/PASSWORD.
#####

User Response: Enter your USERID/PASSWORD (CR)

System Prompt: TOXNET NEWS BULLETIN
...
SS 1 /C?
USER:

User Response: Begin searching.

-
1. (CR) = Press Carriage Return key
 2. Enter the correct terminal identifier for your equipment
 3. Half Duplex Instructions:
For TELENET, type the word HALF (CR) and proceed
For TYMNET, enter H while holding down the CONTROL key, and proceed
 4. For users experiencing garbled characters on their printers, flow control can be established by: For TELENET, enter SET 5:1, 12:1; for TYMNET enter R while holding down the CONTROL key.
 5. Pressing the BREAK key instead of (CR) will also work here.

THE
GRATEFUL MED Users:
See page 17

ISSN 0146-3055

APRIL 1986

No. 204

NLM Technical Bulletin

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**Chemical Regulations And
Standards In HSDB** 8

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BIOETHICS:

Animal Experimentation, New Search Terms, And A Toll-Free Number

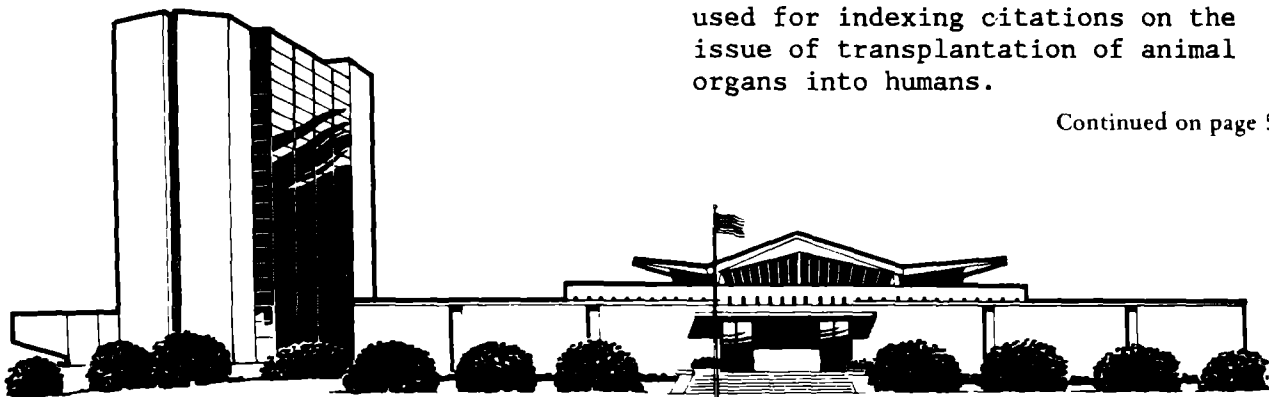
Tamar Joy Kahn
Kennedy Institute of Ethics, Georgetown University

New Coverage of Animal Experimentation

The scope of the BIOETHICS database has recently been expanded to include ethical and public policy issues in the use of animals in biomedical research. Relevant citations published since 1984 will be added to the file on an ongoing basis, and older citations will be added selectively.

The primary Bioethics Thesaurus Keyword (KW) used to index and retrieve citations on this topic is ANIMAL EXPERIMENTATION. Related Keywords that may be used to zero in on a particular aspect of the topic are ANIMAL CARE COMMITTEES, ANIMAL TESTING ALTERNATIVES, and SPECIESISM. ANIMAL ORGANS is another related term, used for indexing citations on the issue of transplantation of animal organs into humans.

Continued on page 5



NLM TECHNICAL BULLETIN • APR 1986

| DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|-----------------|---------------|--------------------------|-------------------|-------------------|
| (ELHILL SYSTEM) | | | | |
| AVLINE | 14,656 | THROUGH 1986 | 10 APR 86 | |
| BIOETHICS | 20,202 | JAN 73-1985 | 05 APR 86 | 8604(EM) |
| CANCERLIT | 515,624 | JAN 63-APR 86 | 05 APR 86 | 8604(EM) |
| CANCERPROJ | 10,147 | THROUGH 1986 | 09 APR 86 | 8604(EM) |
| CATLINE | 602,655 | THROUGH 1986 | 10 APR 86 | |
| CHEMLINE | 667,353 | | 15 FEB 86 | 8602(EM) |
| CLINPROT | 5,348 | | 29 MAR 86 | 8603(EM) |
| DIRLINE | 15,168 | | 24 SEP 85 | |
| HEALTH | 338,313 | JAN 75-APR 86 | 08 MAR 86 | 8604(EM) |
| HISTLINE | 71,902 | | 05 APR 86 | 8604(EM) |
| MEDLINE | 583,524 | JAN 84-MAY 86 | 05 APR 86 | 8605(EM) |
| MED83 | 286,615 | JAN 83-DEC 83 | 22 MAR 86 | |
| MED80 | 804,756 | JAN 80-DEC 82 | 18 JAN 86 | |
| MED77 | 775,066 | JAN 77-DEC 79 | 08 FEB 86 | |
| MED75 | 642,618 | JAN 75-DEC 76 | 22 FEB 86 | |
| MED71 | 883,317 | JAN 71-DEC 74 | 08 MAR 86 | |
| MED66 | 954,574 | JAN 66-DEC 70 | 05 APR 86 | |
| MESH VOC | 56,833 | 1986 | 05 APR 86 | |
| NAME AUTH | 194,339 | | 29 MAR 86 | |
| POPLINE | 145,672 | 1970-MAR 86 | 08 MAR 86 | 8603(EM) |
| RTECS | 80,076 | THROUGH JAN 86 | 21 FEB 86 | |
| SDILINE | 26,688 | MAY 86 | 05 APR 86 | 8605(EM) |
| SERLINE | 66,514 | 1986 | 17 MAR 86 | |
| TOXLINE | 735,162 | | 17 MAR 86 | 8603(EM) |
| CBAC | 409,894 | 1981-VOL 104(3,4) | | |
| TOXBIB | 154,001 | 1981-APR 86 | | |
| IPA (ASHP) | 35,127 | 1981 VOL 23(5,6) | | |
| BIOSIS | 23,615 | FEB 1986 | | |
| HEEP | 49,788 | 1981-VOL 14(8) | | |
| PESTAB | 1,536 | 1981 | | |
| EMIC | 12,899 | 1981-MAR 1986 | | |
| ETIC | 10,906 | 1981-DEC 1985 | | |
| TD3 | 21,876 | 1981-GRA&I 85(26),86(1) | | |
| HMTC | 1,481 | 1981-JUN 1985 | | |
| ILO | 4,431 | FEB 1986 | | |
| RPROJ/CRISP | 10,016 | FISCAL YEARS 1983 & 1984 | | |
| TOXBACK76 | 555,808 | | 27 AUG 84 | |
| CBAC | 298,383 | 1976-1980 | | |
| TOXBIB | 106,643 | 1976-1980 | | |
| IPA(ASHP) | 33,321 | 1976-1980 | | |
| HEEP | 63,796 | 1976-1980 | | |
| PESTAB | 14,757 | 1976-1980 | | |
| EMIC | 17,267 | 1976-1980 | | |
| ETIC | 11,970 | 1976-1980 | | |
| TD3 | 9,671 | 1976-1980 | | |
| TOXBACK65 | 598,424 | | 27 AUG 84 | |
| CBAC | 287,992 | 1965-1975 | | |
| TOXBIB | 155,387 | 1965-1975 | | |
| IPA(ASHP) | 33,876 | 1969-1975 | | |
| HEEP | 54,075 | 1970-1975 | | |
| HAPAB/PESTAB | 18,416 | 1968-1975 | | |
| EMIC | 19,554 | 1950-1975 | | |
| ETIC | 13,694 | 1950-1975 | | |
| TD3 | 839 | PRE-1965-1975 | | |
| HAYES | 10,039 | 1940-1968 | | |
| TMIC | 4,552 | 1940-1975 | | |

(TOXNET SYSTEM)

| | | | |
|-------|-------|--|-----------|
| CCRIS | 1,092 | | 06 MAR 86 |
| HSDB | 4,139 | | 02 APR 86 |
| TDB | 4,139 | | 01 OCT 85 |

Editor: Carolyn B. Tilley
 Assistant Editor: T. Scott Plutchak
 Technical Notes Editor: Patricia E. Healy
 Grateful Med Page Editor: Kathleen Stenger
 (301) 496-6193

Direct Inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 Bldg. 38A, Rm. 4N421
 Bethesda, Maryland 20894

Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual, 1982 and Supplement, 1984 that is considered most relevant to the item being discussed, e.g., (Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

MEMORIAL DAY HOLIDAY SCHEDULE

The NLM computer will be up on a guaranteed basis on Monday, May 26, 1986, the day of the federal government's observance of Memorial Day. Non-prime rates will be in effect all day and the MEDLARS® Management Service Desk will not be staffed. On Memorial Day, Friday, May 30, 1986, the NLM computer will be up and the MMS Service Desk staffed. Regular rates will be in effect all day. □

TDB TO BE DISCONTINUED ON TOXNET

Online services to the Toxicology Data Bank (TDB) on TOXNET will be discontinued on September 30, 1986 for the following reasons:

- 1) All the data in the TDB file has been subsumed by the larger, more comprehensive Hazardous Substances Data Bank (HSDB) on NLM's TOXNET system. In essence, the TDB file is a subset of HSDB.
- 2) Whereas it was originally thought that only TDB would be peer reviewed, the new Scientific Review Panel (SRP) is now performing this function for all data in HSDB.

Users who have previously limited their searching to TDB should be reassured that they will retain access to all the TDB data plus considerably more by searching HSDB. □

LIST OF SERIALS INDEXED FOR ONLINE USERS, 1986: NEW FEATURES

The 1986 edition of the List of Serials Indexed for Online Users has two new features of importance to online searchers. These are the addition of the First/Last Indicator (FL) to each journal listed and the designation of currently indexed titles with a flag.

The First/Last Indicator (FL) appears on the line above the ISSN. The FL contains the date and volume of the first issue for titles currently published and the first and last issue for titles that have ceased publication or have been superseded or continued by another title. However, this is bibliographic information only. The FL is not intended to be a representation of NLM's holdings, except for those titles where the general notes indicate that the First/Last issue field represents the range of NLM's holdings for the title.

Titles currently being indexed are now flagged with a triple asterisk (***). This flag appears to the left of the Journal Title Code (JC). Titles without a flag have either ceased publication, been superseded, or are no longer indexed even though they are currently published.

Please see the February 1986 NLM Technical Bulletin for ordering information. □

DOCLINE USERS MEETING

There will be a DOCLINE users meeting at the Medical Library Association's Annual Meeting in Minneapolis, MN on Wednesday, May 21 from 4:00 to 5:00 pm in the Nicollet Grand Ballroom of the Hyatt Regency Hotel.

All DOCLINE users and interested parties are encouraged to attend. □

REVISED MEDLARS PRICING SCHEDULE

Appendix A contains the complete, revised NLM price structure for all domestic and foreign online and regular type users, effective January 1, 1986. The major revisions are: changes to the CHEMLINE/TOXLINE domestic online rates effective January 1, 1986, and the addition of pricing information for the CCRIS database. □

CLINPROT INDEX TERM LISTING

The CLINPROT Index Term listing for April 1986 is now available. It may be requested by writing to the MEDLARS Management Section. Please include a self-addressed label with your request. No return postage is necessary. □

NLM TECHNICAL BULLETIN INDEX

Enclosed with this issue is a copy of the NLM Technical Bulletin Index, covering issues #189, January 1985 through #203, March 1986. □

Please access FILE INFORM and type NEWS to see the most recent news item online!

BIOETHICS

Continued from page 1

All but one of the above Keywords are mapped to the single MeSH Heading ANIMAL. The exception is ANIMAL TESTING ALTERNATIVES, which is mapped to its identical MeSH equivalent. Therefore the MeSH search statement, ANIMAL OR ANIMAL TESTING ALTERNATIVES, would retrieve all citations related to animals in BIOETHICS.

A Keyword search, which must include the qualifier (KW), would permit specific retrieval, for example, of citations dealing only with ANIMAL CARE COMMITTEES (KW). ANIMAL EXPERIMENTATION (KW) is a "major issue" Keyword that could be used by itself to retrieve all citations relevant to such experimentation. (KW) ANIMAL EXPERIMENTATION OR ANIMAL ORGANS would retrieve any citations concerning animals.

General Search Tips

It is possible to limit retrieval on animal experimentation--or any other topic--to news articles or, alternatively, to exclude news items and citations geared to a popular audience. To do this comprehensively, add to the search strategy a statement that will OR together the Publication Type (PT) NEWSPAPER ARTICLE, the Subject Caption (SC) PO (for "popular"), and the Text Word (TW) NEWS (in recent years, this word has been used as a rubric in titles).

Accordingly, to rule in news and popular items, use the search strategy shown in Figure 1. To rule out news and popular items, change Search Statement 3 in Figure 1 to: 1 AND NOT 2.

To be more selective in retrieval, one

```

SS 1 /C?
USER:
(kw) *animal experimentation
PROG:
SS (1) PSTG (90)

SS 2 /C?
USER:
(pt) newspaper article or po (sc) or news (tw)
PROG:
SS (2) PSTG (2265)

SS 3 /C?
USER:
1 and 2
PROG:
SS (3) PSTG (36)
    
```

Figure 1

might wish to limit the search to citations that are reviews, that discuss standards, or that are philosophical in nature. This can be accomplished by using a search statement that will OR together the three Keywords REVIEW, REVIEW ARTICLE, and STANDARDS (as indicated in a note in the Bioethics Thesaurus, the current Keyword REVIEW was formerly REVIEW ARTICLE) plus the PH Subject Caption (for philosophical approach), as shown in Figure 2.

Other limiting terms that may be included in Search Statement 2 in Figure 2 are such "ethical" Keywords as ETHICAL ANALYSIS, MORAL OBLIGATIONS, or MORAL POLICY. To narrow retrieval further, these terms may be searched with an asterisk (the "tag-type" Keywords REVIEW and REVIEW ARTICLE should be searched without an asterisk).

New Toll-Free Telephone Number

A toll-free telephone number is now available to users throughout the United States who want further information on the content and Keyword indexing policies of BIOETHICS. The

toll-free number, (800) MED-ETHX, is a new service of the NLM-sponsored National Reference Center for Bioethics Literature at the Kennedy Institute of Ethics, Georgetown University, where BIOETHICS is produced. The address is: National Reference Center for Bioethics Literature, Kennedy Institute of Ethics, Georgetown University, (202) 625-2283 or (800) MED-ETHX.

The first 100 people to use the toll-free number for consultation on how to use Keywords and Subject Captions in searching the BIOETHICS file will receive a free reprint of the article, "BIOETHICSLINE: An Overview for Searchers," by Tamar Joy Kahn and Cecily Orr, Medical Reference Services Quarterly Fall 1984; 3(3):1-21.

The toll-free number may also be used to order single copies of documents cited in the BIOETHICS file, in accordance with provisions of the Copyright Act, at a cost of \$5 per document (including delivery). Again, the toll-free number for BIOETHICS and the National Reference Center for Bioethics Literature is: (800) MED-ETHX.□

```

SS 1 /C?
USER:
(kw) *animal experimentation
PROG:
SS (1) PSTG (90)

SS 2 /C?
USER:
(kw) review or review article or standards or ph (sc)
PROG:
SS (2) PSTG (1984)

SS 3 /C?
USER:
1 and 2
PROG:
SS (3) PSTG (31)
    
```

Figure 2

Update On DIRLINE Activities

Kenneth Alan Collins
Specialized Information Services, NLM

Of the two component subfiles which presently constitute DIRLINE, the largest, accounting for 14,000 of the 15,000 total records, is the National Referral Center (NRC) file from the Library of Congress (LC). Due to severe budgetary cutbacks at LC, the National Referral Center has been abolished, effective March 10, 1986. LC has announced that the database building, updating, and indexing activities formerly carried out by NRC will continue, but will be housed in the Resources & Analysis Section, General Reading Rooms Division, Reference Services, at the Library of Congress. Further details should be forthcoming over the next several

months. The referral services which were formerly a major part of NRC's mission also will be incorporated into the activities of the General Reading Rooms Division. Users who have content-related questions about NRC records retrieved from DIRLINE should now call (202) 287-5530 for assistance.

Unfortunately, these developments have caused the DIRLINE file update schedule to be delayed. Until new procedures are worked out by LC, records may not be as current as desired. The NRC file was also available through the Department of Energy's RECON system, but this too is being abolished. Therefore, DIRLINE's importance for those who wish to have online access to the NRC file has been enhanced, since it now provides the only widely available online access to this file. □

Chemical Regulations And Standards In HSDB

Philip Wexler
Specialized Information Services, NLM

Chemical regulation in the United States dates back to 1906 with the passage of the Pure Food and Drug Act. Today, a plethora of laws are administered by such agencies as the Food and Drug Administration (FDA), the Environmental Protection Agency (EPA), the Occupational Safety and Health Administration (OSHA), and the Consumer Product Safety Commission (CPSC). The laws and the regulations stemming from them are designed to safeguard human health and the environment. Regulatory issues are an important concern to the chemical industry, the Government, and the public. TOXNET's HSDB is a good source for locating regulations and standards. Category 8 (Exposure Standards & Regulations (EXSR)) is the primary location for these data (see Figure 1 for the list of data fields).

Readers who have not yet guessed it are forewarned that in order to survive this article, they will need a strong tolerance for mnemonics (STM). (A list on non-HSDB mnemonics used in this article appears as Figure 2).

The importance of occupational guidelines is reflected in the four HSDB data fields devoted to this subject. OSHA develops and promulgates occupational safety and health standards and regulations (HSDB mnemonic = OSHA) and is responsible for their enforcement. The National Institute for Occupational Safety and Health (NIOSH) was set up by law to undertake research and recommend safe workplace practices and air concentrations. NIOSH's recommendations (HSDB mnemonic = NREC) are outlined in their Criteria Documents. A professional society, the American Conference of Governmental Industrial Hygienists (ACGIH) determines the widely used Threshold Limit Values (HSDB mnemonic = TLV) which represent concentrations of chemicals in air below which no

| | | | |
|----|------|----|---|
| 8. | EXSR | ** | EXPOSURE STANDARDS & REGULATIONS |
| | IDLH | | Immediately Dangerous to Life or Health |
| | ADI | | Acceptable Daily Intakes |
| | ATOL | | Allowable Tolerances |
| | OPL | * | Occupational Permissible Levels |
| | OSHA | | OSHA Standards |
| | NREC | | NIOSH Recommendations |
| | TLV | | Threshold Limit Value |
| | OOPL | | Other Occupational Permissible Levels |
| | OREG | * | Other Standards and Regulations |
| | WSTD | | Water Standards |
| | ASTD | | Atmospheric Standards |
| | SSTD | | Soil Standards |
| | CERC | | CERCLA Reportable Quantities |
| | TSCA | | TSCA Requirements |
| | RCRA | | RCRA Requirements |
| | FIFR | | FIFRA Requirements |
| | FDA | | FDA Requirements |

Figure 1

| Non-HSDB Mnemonics Used In This Article | |
|---|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act (Superfund) |
| CPSC | Consumer Product Safety Commission |
| EPA | Environmental Protection Agency |
| FDA | Food and Drug Administration |
| FIFRA | Federal Insecticide, Fungicide and Rodenticide Act |
| NIOSH | National Institute for Occupational Safety and Health |
| OSHA | Occupational Safety and Health Administration |
| RCRA | Resource Conservation and Recovery Act |
| TSCA | Toxic Substances Control Act |

Figure 2

adverse effects in man should result. A final occupational data field (HSDB mnemonic = OOPL) covers a miscellany of values such as individual state standards, Maximum Allowable Concentrations, and some foreign standards.

Air (HSDB mnemonic = ASTD), water (HSDB mnemonic = WSTD), and soil (HSDB mnemonic = SSTD) standards are promulgated under a variety of statutes such as the Clean Air Act, the Clean Water Act, and the Safe Drinking Water Act. The data in each of these HSDB fields are drawn largely from the Federal Register or the Code of Federal Regulations.

The Federal Register and the Code of Federal Regulations are also recommended sources for extracting data for other EXSR fields related to specific legislation. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), (HSDB mnemonic = CERC), popularly known as "Superfund", allows the imposition of fees on the chemical industry in order to clean up dumpsites. CERCLA "reportable quantities" are carried in this field. Premarketing notification and possible testing of chemicals are required by the Toxic Substances Control Act (TSCA) (HSDB mnemonic = TSCA). The Resource Conservation and Recovery Act (RCRA) (HSDB mnemonic = RCRA) regulates the management of hazardous wastes. Procedures for registering pesticides are outlined in the Federal

Insecticide, Fungicide and Rodenticide Act (FIFRA) (HSDB mnemonic = FIFR). The Federal Food, Drug and Cosmetic Act administered by the FDA (HSDB mnemonic = FDA) requires the preclearance of drugs for efficacy and safety, and contains additional provisions on food, color additives, and cosmetics. This act also establishes tolerances for pesticides in food (HSDB mnemonic = ATOL).

Two remaining EXSR data fields are IDLH and ADI. IDLH represents the maximum exposure level over a thirty minute time span which will not result in incapacitating symptoms or irreversible health effects. ADI is the amount of the chemical that can be taken daily over a lifetime with minimal risk.

Regulatory data cited in HSDB pertains mostly to the United States. Although foreign data may be included in these fields, it is not actively acquired.

The Federal Register is issued daily and provides rules and regulations as well as notices, proposed rules, and Presidential proclamations. Annually, the regulations are codified in the Code of Federal Regulations. Although, as already mentioned, these are valuable and frequently used sources of data for exposure standards and regulations in HSDB, the file also contains data from other sources. Among these are journal articles and monographs, public hearings, and agency documents such as the EPA

Ambient Water Quality Criteria and the NTP Annual Report on Carcinogens.

Outside of the EXSR category, the SHIP (Shipment Methods & Regulations) field is a fertile source for regulatory requirements for shipping. A few regulations related to manufacture and use may also be found in OMIN (Other Manufacturing Information). The STRG (Storage Conditions) field contains some regulations as well. Unique chemical numbering systems also play a role in the regulatory framework. Users are reminded of the HSDB fields

which contain such numbers: SHPN (Shipping Name/Number), STCC (Standard Transportation Commodity Code) and HAZN (EPA Hazardous Waste Number). Finally, the DOT (DOT Emergency Guidelines) field (see the December 1985 NLM Technical Bulletin) contains procedures which, though not carrying the force of law, are well regarded and frequently utilized by the emergency response community.

Congratulations! This ends our tour of the mnemonic maze (MM). Examples of searching the EXSR category follow. □

What are the regulatory requirements for cadmium in bottled water?

SS 1 /C?
 USER:
 cadmium (name)
 SS (1) PSTG (1)

SS 2 /C?
 USER:
 prt fda

HSN - 282
 NAME - CADMIUM
 FDA - No batch of a straight color listed B,C, or D shall be certified under this part unless: heavy metals (except Pb and As) (by precipitation as sulfides), /are/ not more than trace. [21 CFR 82.5 (iii) (4/1/84)]
 FDA - Bottled water shall, when a composite of analytical units of equal volume from a sample is examined by the methods described in paragraph (d) (i) (ii) of this section, meet the standards of chemical quality and shall not contain cadmium in excess of 0.01 mg/l. [21 CFR 103.35 (4/1/84)]

SS 2 /C?
 USER:

Example 1

Are there any standards related to salt water concentrations of insecticides?

SS 1 /C?

USER:

(wstd) salt or saltwater

SS (1) PSTG (20)

SS 2 /C?

USER:

all insecticid: (use)

MM (INSECTICID:) (3)

SS (2) PSTG (338)

SS 3 /C?

USER:

1 and 2

SS (3) PSTG (9)

SS 4 /C?

USER:

prt 1 skip 2 hits

HSN - 322

NAME - DIELDRIN

USE - Broad spectrum insecticide used until 1974; EPA restricted its use to termite control by direct soil injection and non-food seed and plant treatment. [USEPA; Ambient Water Quality Criteria Doc: Aldrin/Dieldrin p.A-1 (1980) EPA 440/5-80-019]

WSTD - Criterion to protect freshwater aquatic life is 0.0019 ug/l as a 24-hr avg; concn should not exceed 2.5 ug/l at anytime. Criterion to protect salt water aquatic life is 0.0019 ug/l as a 24-hr avg; concn should not exceed 0.71 ug/l at any time. [USEPA; Ambient Water Quality Criteria Doc: Aldrin/Dieldrin p.B-12 (1980) EPA 440/5-80-019]

SS 4 /C?

USER:

Example 2

What governmental or other time weighted average (TWA) standards in air have been set for chemicals used in the dry cleaning industry?

SS 1 /C?

USER:

same (use) dry and cleaning
20 OCCURRENCES IN 19 RECORDS
SS (1) PSTG (19)

SS 2 /C?

USER:

(exsr) twa
SS (2) PSTG (700)

SS 3 /C?

USER:

1 and 2
SS (3) PSTG (14)

SS 4 /C?

USER:

prt 2 hits

HSN - 35

NAME - BENZENE

USE - Used for printing & lithography, paint, rubber, dry cleaning, adhesives & coatings, detergents and pesticides. [NIOSH. Criteria Document: Benzene p.20 (1974) DHEW Pub No 74-137]

OSHA - EXPOSURE LIMITS: OSHA STD- AIR: TIME WEIGHTED AVG (TWA) 10 PPM, CEILING CONC N 25 PPM, PEAK CONC N 50 PPM/10 MIN/8 HR (1974). [NIOSH. RTECS ONLINE FILE, CURRENT FILE, p. 83/8303]

TLV - TLV: TIME WEIGHTED AVG (TWA) 10 PPM (30 MG/CU M); SHORT TERM EXPOSURE LIMIT (STEL) 25 PPM (75 MG/CU M) (1982). [ACGIH. TLVS 1982, p. 10]

HSN - 53

NAME - CARBON TETRACHLORIDE

USE - DRY CLEANING & FABRIC SPOTTING FLUID (FORMER USE) [SRI]

OSHA - OSHA STD- AIR: TIME WEIGHTED AVG (TWA) 10 PPM; CEILING 25 PPM; PEAK 200 PPM/5 MIN/4 HR (1974). CRITERIA DOCUMENT: OCCUPATIONAL EXPOSURE TO CARBON TETRACHLORIDE RECOMMENDED STD- AIR: CEILING 2 PPM/60 MIN. [NIOSH. RTECS ONLINE FILE, CURRENT FILE, p. 83/8209]

TLV - TLV: TIME WEIGHTED AVG (TWA) 5 PPM, 30 MG/CU M; SHORT TERM EXPOSURE LIMIT (STEL) 20 PPM, 125 MG/CU M, SKIN (1982). [ACGIH. TLVS 1982, p. 12]

SS 4 /C?

USER:

Example 3

Are there any potential human health hazards of FDA Generally Recognized as Safe (GRAS) dietary supplements?

SS 1 /C?

USER:

same (fda) gras and dietary and supplement

45 OCCURRENCES IN 45 RECORDS

SS (1) PSTG (45)

SS 2 /C?

USER:

prt 1 skip 5 hits, txhr, ppot, htox, htxv, minf, popl

HSN - 454

NAME - FERRIC PYROPHOSPHATE

TXHR - ND

PPOT - ORALLY, IRON SALTS OF BOTH VALENCE FORMS ARE NOT STRIKINGLY TOXIC; ON THE OTHER HAND, WHEN INTRODUCED DIRECTLY INTO THE BLOODSTREAM IRON SALTS ARE INSTANTANEOUSLY TOXIC, PARTICULARLY FERRIC SALTS. /IRON SALTS/ [PATTY. INDUS HYG & TOX 3RD ED VOL2A,2B,2C 1981-82, p. 1665]

HTOX - ...SYMPTOMS OF IRON INTOXICATION INCL VOMITING, HEMATEMESIS, DIARRHEA, LETHARGY, COMA, IRRITABILTY, SEIZURES, & ABDOMINAL PAIN. ...INCR CARDIAC & RESP RATE...MARKED INCR IN TOTAL PERIPHERAL VASCULAR RESISTANCE MAY MAINTAIN ARTERIAL BLOOD PRESSURE FOR VARIABLE PERIODS BEFORE MANIFESTATIONS OF LOW OUTPUT SHOCK... /IRON/ [PATTY. INDUS HYG & TOX 3RD ED VOL2A,2B,2C 1981-82, p. 1665]

HTOX - ...CONSEQUENCES OF ACUTE IRON INTOXICATION INCL METABOLIC ACIDOSIS, DUE IN PART TO THE ACCUM OF LACTIC & CITRIC ACIDS, & HYPOGLYCEMIA. /IRON/ [PATTY. INDUS HYG & TOX 3RD ED VOL2A,2B,2C 1981-82, p. 1666]

HTXV - ND

MINF - ND

POPL - ND

FDA - 121.101; LIMITATIONS: GRAS, NUTRIENT &/OR DIETARY SUPPLEMENT [FURIA. HDBK FOOD ADD 2ND ED 1972, p. 852]

SS 2 /C?

USER:

Example 4

Prepare a list of some chemicals regulated specifically under the Clear Water Act.

SS 1 /C?

USER:

same (wstd) clean and water and act

74 OCCURRENCES IN 64 RECORDS

SS (1) PSTG (64)

SS 2 /C?

USER:

prt 2 skip 10 hits

HSN - 183

NAME - MALEIC ANHYDRIDE

WSTD - Designated as a hazardous substance under section 311(b)(2)(A) of the Federal Water Pollution Control Act and further regulated by the Clean Water Act Amendments of 1977 and 1978. These regulations apply to discharges of this substance. [40 CFR 116.4 (7/1/83)]

HSN - 188

NAME - ADIPIC ACID

WSTD - Designated as a hazardous substance under section 311(b)(2)(A) of the Federal Water Pollution Control Act and further regulated by the Clean Water Act Amendments of 1977 and 1978. These regulations apply to discharges of this substance. [40 CFR 116.4 (7/1/83)]

SS 2 /C?

USER:

Example 5

Monthly Search Hint

Portraits

T. Scott Plutchak
Index Section, NLM

The MeSH Heading PORTRAITS has been in the vocabulary since 1960, and is used in Index Medicus to indicate articles about portraits and portraiture. Since 1980, however, it has had an additional specialized meaning for the MEDLINE searcher: it can be used to locate portraits of physicians and other medically related persons that have appeared in the literature that NLM indexes.

Whenever an indexer comes across an article on a particular individual, and that article includes a portrait of the individual, the NIM heading (NIM means non-Index Medicus and indicates that the term appears only in the online record) PORTRAITS is added to the record. To find out if a portrait of an individual has been published, the searcher need only enter the individual's name, qualified with PS for personal subject, and combine it with the Main Heading PORTRAITS (see Figure 1). In April of

1985, this use was broadened to include portraits presented in non-biographical historical articles. Thus, the searcher can now retrieve a list of articles containing portraits of individuals from a specific field, as well as portraits of specific individuals (see Figure 2, page 16).

NLM has additional resources for locating portraits beyond those that can be found using the PORTRAITS Main Heading. The Prints and Photographs Collection of NLM's History of Medicine Division (HMD) contains some 38,000 portraits. HMD also maintains, in card catalog format, the Union Catalog of Portraits which contains references to about 100,000. These records have come from a variety of sources including NLM's Index Section, the New York Academy of Medicine, the John Crerar Library and Northwestern University School of Medicine.

Searchers who are trying to locate a portrait should, therefore, proceed as follows: search online (back through 1980) using the individual's name and the Main Heading PORTRAITS. If this retrieves a citation from an easily obtainable journal the problem is solved. Glossy reproductions can

```

Searching for portraits of a specific individual.

SS 1 /C?
USER:
mondor h (ps) and portraits
PROG:
SS (1) PSTG (1)

SS 2 /C?
USER:
prt
PROG:

1
UI - 86112176
AU - Leger L
AU - Olivier C
AU - Sicard A
TI - [Henri Mondor (1885-1962)]
SO - J Chir (Paris) 1985 Nov;122(11):611-2

SS 2 /C?
USER:
    
```

Figure 1

often be obtained by writing to the journal's publisher. In any case, the journal or holder of the copyright should be contacted. Portraits in journals are most probably copyrighted and permission to reproduce must be obtained in accordance with copyright regulations.

If a reference to a portrait cannot be located online, the searcher should contact Prints and Photographs

(National Library of Medicine, 8600 Rockville Pike, Bethesda, Maryland 20894; (301) 496-5961). If a portrait for the individual in question is in the Library's collection, a reproduction can be made for a nominal fee (about \$4.50 for a slide, \$6.00 for an 8x10 print). At the very least, Prints and Photographs personnel will be able to provide a referral to some other source for the portrait if one exists. □

Searching for portraits of individuals in a specific field.

SS 1 /C?

USER:
neurosurgery/history and portraits
PROG:
SS (1) PSTG (24)

SS 2 /C?

USER:
prt 1 ti, ps, mh
PROG:

1

TI - Historical development of spinal cord cooling.
MH - Animal
MH - Cryosurgery/*HISTORY/METHODS
MH - Dogs
MH - Historical Article
MH - History of Medicine, 20th Cent.
MH - Human
MH - Neurosurgery/HISTORY
MH - Portraits
MH - Spinal Cord Injuries/*THERAPY

2

TI - Edgar A. Kahn, M.D., 1900-1985.
PS - Kahn EA
MH - Current Biog-Obit
MH - Historical Article
MH - History of Medicine, 20th Cent.
MH - Neurosurgery/HISTORY
MH - Portraits
MH - United States

SS 2 /C?

USER:

Figure 2

GRATEFUL MED

With this issue of the NLM Technical Bulletin we begin a regular page of questions and answers dealing with issues related to GRATEFUL MED. Suggestions for topics for this column will be greatly appreciated.

Can I tell if my GRATEFUL MED disk was damaged during shipping?

Sometimes a GRATEFUL MED disk will be folded as it goes through the mail (even the stiff cardboard of the user guide will fold-up!). The following steps may be followed to check the integrity of your disk:

```
--load DOS into your machine
--direct your machine to the drive
  containing the master GRATEFUL MED
  disk and type the following at the
  DOS prompt:
```

```
A> ARC T MED (hit enter or
  carriage return)
```

If the disk is undamaged, the eight component files will be listed and a "no errors detected" statement will appear. Any other message indicates that the disk is damaged. If the disk is defective, return it to Customer Services, National Technical Information Service, along with a letter stating the problem(s) encountered.

Is there any type of discount on large NTIS orders for GRATEFUL MED?

There is a volume discount of 25% available on orders of 5 or more copies of the GRATEFUL MED software. Rush orders will be processed within 24 hours and mailed first class (or equivalent) for a \$10.00 additional charge per item. Express orders will

be processed in 24 hours and delivered by overnight carrier for \$20.00 extra per item. No mechanism exists for charging your GRATEFUL MED order to your User ID code. You must use a credit card, deposit account, check or money order.

Does the pagewidth established for my User ID code affect the functioning of GRATEFUL MED?

Any pagewidth greater than 72 characters will adversely affect GRATEFUL MED by dropping characters after the 72nd position in printing and causing the retrieval to be misleading. SHOW COST information may also be faulty. User ID codes assigned by NLM have a default pagewidth of 72. If you are using an existing User ID code with GRATEFUL MED and you encounter problems with dropped or missing characters, check your pagewidth by logging onto MEDLARS and issuing a PROFILE LIST command. If the pagewidth is greater than 72, change it back with the PROFILE MODIFY PAGEWIDTH command.

The MEDLARS Management Section would appreciate knowing your successes, and failures, in installing and using GRATEFUL MED. If you write to us (or send an online COMMENT) concerning your equipment, or describing any procedures or adjustments made, we will be happy to share the information in future issues. □

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p. 3.

SERIALS UPDATE

INDEXED TITLES UPDATE, APRIL 1986

The following titles cited in MEDLINE, HEATH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last

UPDATE. More detailed information about each title may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, MARCH 1986

IM CLINICS IN DERMATOLOGY
 CLIN DERMATOL
 IN1, JUL/SEP 1983--
 LIPPINCOTT
 PHILADELPHIA UNITED STATES
 INDEXING BEGAN WITH VIN1, 1983.
 W1 CL831AL 0738-081X
 C27377000 JTC: CLD
 J.B. LIPPINCOTT, 2350 VIRGINIA AVE,
 HAGERSTOWN MD 21740

IM JOURNAL OF REHABILITATION RESEARCH AND
 DEVELOPMENT. CLINICAL SUPPLEMENT
 J REHABIL RES DEV [CLIN SUPPL]
 1, 1985--
 U.S. VETERANS ADMINISTRATION
 WASHINGTON UNITED STATES
 INDEXING BEGAN WITH N1, 1985.
 W1 J0867SA
 SR0056204 JTC: JOR
 VETERANS ADMINISTRATION, DEPARTMENT OF
 MEDICINE AND SURGERY, WASHINGTON DC 20420

IDL KANAGAWA SHIGAKU
 KANAGAWA SHIGAKU
 1, 1967--
 KANAGAWA ODONTOLOGICAL SOCIETY
 YOKOSUKA JAPAN
 INDEXING BEGAN WITH V.19 N.1, JUN 1984.
 W1 KA43K 0454-8302
 K01240000 JTC: KAS
 KANAGAWA-KEN EISEBU, 1-1 NIPPON
 OHODORI, CHU-KU, YOKOHAMA, JAPAN

TITLE CHANGES, MARCH 1986

IM CLINICS IN PODIATRIC MEDICINE AND SURGERY
 CLIN PODIATR MED SURG
 3N1, JAN 1986--
 W.B. SAUNDERS
 PHILADELPHIA UNITED STATES
 CONTINUES: CLINICS IN PODIATRY.
 IN PROCESS
 SR0056206 JTC: CLO

IM CURRENT STUDIES IN HEMATOLOGY AND BLOOD
 TRANSFUSION
 CUR STUD HEMATOL BLOOD TRANSFUS
 N52, 1986--
 KARGER
 BASEL SWITZERLAND
 CONTINUES: BIBLIOTHECA HAEMATOLOGICA.
 W1 CU8105
 SR0055721 JTC: DWT

| | | |
|---|-----------------|--|
| <p>HLI HEALTH SERVICE JOURNAL HEALTH SERV J 96N4989, MAR 6 1986-- HEALTH AND SOCIAL SERVICE PUBLICATIONS LONDON ENGLAND CONTINUES: HEALTH AND SOCIAL SERVICE JOURNAL. SUPPLEMENTS ACCOMPANY SOME ISSUES. IN PROCESS SR0056286</p> | <p>JTC: G4F</p> | <p>HLI JOURNAL OF ECONOMIC AND SOCIAL MEASUREMENT J ECON SOC MEAS 13N1, APR 1985-- ELSEVIER NEW YORK UNITED STATES CONTINUES: REVIEW OF PUBLIC DATA USE. THIS TITLE IS NOT IN THE NLM COLLECTION. AHA 0747-9662 SR0056209 JTC: JSM</p> |
|---|-----------------|--|

IM MIDDLE EAST JOURNAL OF ANESTHESIOLOGY
MIDDLE EAST J ANESTHESIOLOG
7N1, FEB 1983--
AMERICAN UNIVERSITY OF BEIRUT. DEPARTMENT
OF ANESTHESIOLOGY
BEIRUT LEBANON
CONTINUES: MIDDLE EAST JOURNAL OF
ANAESTHESIOLOGY.
W1 MI32S 0544-0440
SR0056148 JTC: M9P

TITLES NO LONGER INDEXED AS OF MARCH 1986

| | |
|---|---|
| <p>IM MEDICAL RADIOGRAPHY AND PHOTOGRAPHY MED RADIOGR PHOTOGR 23, 1947-- EASTMAN KODAK CO ROCHESTER NY UNITED STATES CONTINUES RADIOGRAPHY AND CLINICAL PHOTOGRAPHY INDEXING CEASED WITH V61N4, 1985. W1 ME423 0025-746X M16840000 JTC: MB2</p> | <p>IDL REVISTA PORTUGUESA DE ESTOMATOLOGIA E CIRURGIA MAXILOFACIAL REV PORT ESTOMATOL CIR MAXILOFAC 1, 1960-- SOCIEDAD PORTUGUESA DE ESTOMATOLOGIA LISBON PORTUGAL FOUR VOLUMES FOR 1980 NUMBERED V21N1, V22N2, V23N3, AND V24N4. INDEXING FOR IM CEASED WITH V26N3, 1985. V26N4, 1985-- INDEXED FOR IDL ONLY. W1 RE7167 0035-0397 R38920000 JTC: SZT</p> |
|---|---|

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES, MARCH 1986

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH, and POPLINE are listed in the "INDEXED TITLES UPDATE" section. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill

loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ADVANCES IN DERMATOLOGY
1, 1986--
YEAR BOOK MEDICAL PUBLISHERS
CHICAGO UNITED STATES
CONTINUES: CURRENT ISSUES IN DERMATOLOGY.
IN PROCESS
SR0056146
G.K. HALL MEDICAL PUBLISHERS, 70 LINCOLN
STREET, BOSTON MA 02111

AIDS POLICY AND LAW
JAN 1986--
BURAFF
WASHINGTON UNITED STATES
ON ORDER
SR0056261 \$278.00

ARZTLICHE MONATSHEFTE
36N1, JAN 1986--
DEUTSCHER ARZTE-VERLAG
MUNICH GERMANY, WEST
CONTINUES: MONATSKURSE FUR DIE ARZTLICHE
FORTBILDUNG.
IN PROCESS
SR0056133 \$39.00
DEUTSCHER ARZTE VERLAG, POSTFACH 400440,
DIESELSTR. 2, 5000 KOLN 40, WEST GERMANY

BIJBLIJVEN
1N1, 1985--
ELSEVIER
AMSTERDAM NETHERLANDS
CUMULATIEF GENEESKUNDIG NASCHOLINGS-SYSTEEM
IN PROCESS
SR0056284
B.V. UITGEVERSMACHTSAPPIJ
ELSEVIER, RIVIERSTRAETE-AMSTELDIJK
166, 1079 LH AMSTERDAM, NETHERLANDS

BONE AND MINERAL
1N1, FEB 1986--
ELSEVIER
AMSTERDAM NETHERLANDS
OFFICIAL JOURNAL OF THE INTERNATIONAL
CONFERENCES ON CALCIUM REGULATING HORMONES;
INC.
ON ORDER
SR0056285 \$116.25

CONTACT LENS SPECTRUM
JAN 1986--
VISCOM
NORWALK CT UNITED STATES
ON ORDER
SR0056265 \$25.00

CURRENT ADVANCES IN CLINICAL CHEMISTRY
V13N1, 1986--
PERGAMON PRESS
ELMSFORD NY UNITED STATES
UNCATALOGED SERIAL RECORD. BIBLIOGRAPHIC
DATA TAKEN FROM: V. 13 N. 1, JANUARY 1986.
CONTINUES: CURRENT CLINICAL CHEMISTRY.
ZQY 90 C976
SR0056194
PERGAMON PRESS, MAXWELL HOUSE, FAIRVIEW
PARK, ELMSFORD NY 10523

CURRENT OPINION IN ORTHOPAEDIC AND
TRAUMATIC SURGERY
1, 1987--
GOWER MEDICAL PUBLISHING
LONDON ENGLAND
FORMERLY CALLED: CURRENT OPINION IN
RHEUMATOLOGY.
ON ORDER
SR0056238
GOWER MEDICAL PUBLISHING LTD., LONDON
W1P 5FB, ENGLAND

DRUGS AND SOCIETY
SEP 1986--
HAWORTH
NEW YORK UNITED STATES
ON ORDER
SR0056278 \$42.00

EARLY CHILDHOOD RESEARCH
MAR 1986--
ABLEX
NORWOOD NJ UNITED STATES
ON ORDER
SR0056255 \$65.00

EMERGENCY MEDICAL SERVICES MANAGEMENT
ADVISOR
1N1, 1985--
ASPEN SYSTEMS CORPORATION
ROCKVILLE MD UNITED STATES
IN PROCESS
SR0056145 \$65.00
ASPEN SYSTEMS CORPORATION, 1600 RESEARCH
BLVD., ROCKVILLE MD 20850

ERGEBNISSE DER INTERNISTISCHEN ONKOLOGIE
1, 1986--
ENKE
STUTTGART GERMANY, WEST
IN PROCESS
SR0056201

ETHOLOGY
70N1, JAN 1986--
PAUL PAREY
BERLIN GERMANY, WEST
CONTINUES: ZEITSCHRIFT FUR TIERPSYCHOLOGIE.
IN PROCESS
SR0056221 \$342.00
VERLAG PAUL PAREY, LINDENSTRASSE
44-47, D-1000 BERLIN 61, WEST GERMANY

ICRDB CANCERGRAM. CHEMICAL CARCINOGENESIS.
AROMATIC HYDROCARBONS AND HETEROCYCLIC
ANALOGS
N86/01, JAN 1986--
U.S. NATIONAL CANCER INSTITUTE
BETHESDA MD UNITED STATES
CONTINUES: ICRDB CANCERGRAM. CHEMICAL
CARCINOGENESIS. POLYCYCLIC AROMATIC
HYDROCARBONS AND RELATED COMPOUNDS.
IN PROCESS
SR0056147
ICRDB/NCI, BLDG 82/RM 103, NIH, BETHESDA MD
20205

ICRDB CANCERGRAM. IMMUNOBIOLOGY AND
 CANCER. HUMORAL IMMUNITY
 N86/01, JAN 1986--
 U.S. NATIONAL CANCER INSTITUTE
 BETHESDA MD UNITED STATES
 CONTINUES: ICRDB CANCERGRAM. IMMUNOBIOLOGY
 AND CANCER. ANTIBODIES AND HUMORAL
 IMMUNITY. A SERVICE OF THE INTERNATIONAL
 CANCER RESEARCH DATA BANK PROGRAM.
 PREPARED BY THE CANCER INFORMATION
 DISSEMINATION AND ANALYSIS CENTER FOR
 CARCINOGENESIS AND CANCER BIOLOGY. SERIES
 NO: CB08.
 IN PROCESS
 SR0056159
 ICRDB/NCI, BLDG 82/RM 103, NIH, BETHESDA MD
 20892

ICRDB CANCERGRAM. IMMUNOBIOLOGY AND
 CANCER. FUNCTIONAL ASPECTS OF
 CELL-MEDIATED IMMUNITY
 N12, DEC 1985--
 US DEPARTMENT OF HEALTH AND HUMAN SERVICES,
 NATIONAL INSTITUTES OF HEALTH, NATIONAL
 CANCER INSTITUTE
 BETHESDA MD UNITED STATES
 CONTINUES: ICRDB CANCERGRAM. IMMUNOBIOLOGY
 AND CANCER. FUNCTIONAL ASPECTS OF CELLULAR
 IMMUNITY.
 IN PROCESS
 SR0056270
 CANCER INFORMATION DISSEMINATION AND
 ANALYSIS CENTER, FOR VIROLOGY IMMUNOLOGY
 AND BIOLOGY, NATIONAL CANCER
 INSTITUTE, BETHESDA MD 20014

ICRDB CANCERGRAM. RNA TUMOR VIRUSES
 ASSOCIATED WITH CANCER
 N86/01, JAN 1986--
 U. S. NATIONAL CANCER INSTITUTE
 BETHESDA MD UNITED STATES
 ABSORBS: ICRDB CANCERGRAM. RNA VIRUSES
 ASSOCIATED WITH CANCER. MOLECULAR BIOLOGY,
 AND: ICRDB CANCERGRAM. RNA VIRUSES
 ASSOCIATED WITH CANCER. CELL BIOLOGY AND
 ANIMAL STUDIES. ISSUED AS A SERVICE OF THE
 INTERNATIONAL CANCER RESEARCH DATA BANK
 PROGRAM. PREPARED BY THE CANCER
 INFORMATION DISSEMINATION AND ANALYSIS
 CENTER FOR CARCINOGENESIS AND CANCER
 BIOLOGY. SERIES NO: CB23.
 IN PROCESS
 SR0056166
 ICRDB/NCI, BLDG 82/RM 103, BETHESDA MD
 20205

INFECTIOUS AND MEDICAL DISEASE LETTERS FOR
 OBSTETRICS AND GYNECOLOGY
 7N1, JAN-MAR 1986--
 INFECTIOUS DISEASES INC.
 GAINESVILLE FL UNITED STATES
 CONTINUES: INFECTIOUS DISEASE LETTERS FOR
 OBSTETRICS, GYNECOLOGY.
 IN PROCESS
 SR0056233 \$18.00
 INFECTIOUS DISEASES, 3101 SW FIRST
 WAY, GAINESVILLE FL 32601

INTERNATIONAL CLINICAL PSYCHOPHARMACOLOGY
 IN1, 1986--
 CLINICAL NEUROSCIENCE PUBLISHERS
 HILLSDALE NJ UNITED STATES
 IN PROCESS
 SR0056216
 LAWRENCE ERLBAUM ASSOCIATES, 365
 BROADWAY, HILLSDALE NJ 07642

INTERNATIONAL JOURNAL OF SHORT-TERM
 PSYCHOTHERAPY
 IN1, WINTER 1986--
 JOHN WILEY
 NEW YORK UNITED STATES
 ON ORDER
 SR0056217 \$96.00

ISLAMIC WORLD MEDICAL JOURNAL
 1, 1985--
 ISLAMIC PRESS AGENCY
 BUCKS ENGLAND
 IN PROCESS
 SR0056276
 ISLAMIC PRESS AGENCY, CROWN HOUSE CROWN
 LANE, EAST BURNHAM NR. SLOUGH, BUCKS SL2
 35G

JOURNAL OF AGING AND JUDAISM
 SEP 1986--
 HUMAN SCIENCES PRESS
 NEW YORK UNITED STATES
 ON ORDER
 SR0056258 \$40.00

JOURNAL OF CHIROPRACTIC JURISPRUDENCE
 IN1, 1985--
 CLAY-JON PUBLISHERS
 BIRMINGHAM AL UNITED STATES
 IN PROCESS
 SR0056167
 CLAY-JON PUBLISHERS INC., P.O. BOX
 59221, 5140 CROWLEY DRIVE, BIRMINGHAM AL
 35259-9221

JOURNAL OF INTERPERSONAL VIOLENCE
 MAR 1986--
 SAGE
 BEVERLY HILL CA UNITED STATES
 ON ORDER
 SR0056279 \$50.00

MIKROBIOLOGICKE VYSETROVACI METODY
 1, 1985--
 AVICENUM
 PRAHA CZECHOSLOVAKIA
 IN PROCESS
 SR0056183
 AVICENUM, MALOSTRANSKE NAM. 28, 118 02
 PRAGUE 1, CZECHOSLOVAKIA

PROFESSIONAL SCHOOL PSYCHOLOGY
 1N1,1986--
 LAWRENCE ERLBAUM ASSOCIATES
 HILLSDALE NJ UNITED STATES
 IN PROCESS
 SR0054858
 LAWRENCE ERLBAUM ASSOCIATES, 365
 BROADWAY, HILLSDALE NJ 07642

PROGRESS IN THE PSYCHOLOGY OF LANGUAGE
 1,1985--
 LAWRENCE ERLBAUM ASSOCIATES
 LONDON ENGLAND
 IN PROCESS
 SR0056162
 LAWRENCE ERLBAUM ASSOCIATES LTD.,
 CHANCERY HOUSE, 319 CITY ROAD, LONDON
 EC1V 1LJ, ENGLAND

PULMONARY MEDICINE AND TECHNOLOGY
 1N1,JAN 1984--
 PMT
 DALLAS TX UNITED STATES
 ON ORDER
 SR0056118 \$50.00
 HIPPS AND ASSOCIATES LTD,17070 DALLAS
 PARKWAY,DALLAS TX 75248

RINSHO SHOKAKI NAIKA
 1N1,1986--
 TOKYO JAPAN
 IN PROCESS
 SR0056208 \$166.50

SOEMMERRING-FORSCHUNGEN
 1,1985--
 GUSTAV FISCHER VERLAG
 STUTTGART GERMANY, WEST
 IN PROCESS
 SR0056105 \$41.26

STOFFWECHSELKRANKHEITEN
 5N1,FEB 1986--
 PMI VERLAG
 FRANKURT MAIN GERMANY, WEST
 CONTINUES: DIABETES MELLITUS.
 IN PROCESS
 SR0056220 \$19.00
 PMI VERLAG GMBH,HEINESTRABE,14 6000
 FRANKFURT,WEST GERMANY

TOXICITY ASSESSMENT
 1N1,WINTER 1986--
 JOHN WILEY
 NEW YORK UNITED STATES
 ON ORDER
 SR0056212 \$100.00

ZENTRALE THERAPIEEMPFEHLUNGEN
 1,1985--
 VEB VERLAG VOLK UND GESUNDHEIT
 BERLIN GERMANY, EAST
 IN PROCESS
 SR0056141

NLM DOMESTIC AND FOREIGN CHARGES AND MINIMUMS FOR ONLINE SERVICES
AND LEASING TAPE COPIES OF DATABASES
EFFECTIVE JANUARY 1, 1986

| <u>Database</u> | <u>Online Charges</u> | | <u>Leased Tape Charges</u> | |
|-----------------|-----------------------|--------------------------------------|--|--|
| | <u>Domestic 1/</u> | <u>Foreign 2/</u> | <u>Domestic 3/</u> | <u>Foreign 4/</u> |
| AVLINE | Online Algorithm | No minimum; Usage charges only | <u>5/Base file:</u> (up to current year) \$1,000 <u>Current year:</u> \$1,000/yr; updated monthly No usage charges | <u>5/Base file:</u> (up to current year) \$1,250 <u>Current year:</u> \$1,250/yr; updated monthly No usage charges |
| BIOETHICS | Online Algorithm | \$1,000/yr minimum | \$1,000/yr minimum | \$1,000/yr minimum |
| CANCERLIT | Online Algorithm | \$3,000/yr minimum | \$3,000/yr minimum | \$3,000/yr minimum |
| CANCERPROJ | Online Algorithm | \$1,000/yr minimum | \$1,000/yr minimum | \$1,000/yr minimum |
| CATLINE | Online Algorithm | No minimum; usage charges only | <u>5/Base file:</u> (1965 up to the current year) \$3,000 <u>Current year:</u> \$4,000/yr; updated weekly <u>or</u> <u>Current year:</u> \$2,000/yr; updated monthly <u>Retrospective</u> <u>file:</u> (Pre-1965) \$3,000 No usage charges | <u>5/Base file:</u> (1965 up to the current year) \$3,750 <u>Current year:</u> \$5,000/yr; updated weekly <u>or</u> <u>Current year:</u> \$2,500/yr; updated monthly <u>Retrospective</u> <u>file:</u> (Pre-1965) \$3,750 No usage charges |

revised April 1986

NLM DOMESTIC AND FOREIGN CHARGES EFFECTIVE JANUARY 1, 1986

| Database | Online Charges | | Leased Tape Charges | |
|--|--|--|-------------------------|-------------------------|
| | Domestic 1/ | Foreign 2/ | Domestic 3/ | Foreign 4/ |
| CHEMICAL CARCINOGENESIS RESEARCH INFORMATION SYSTEM (CCRIS) | 8/Online Algorithm (eff.2/25/86) | 9/\$2,500/yr minimum (eff.2/25/86) | Not yet available | Not yet available |
| CHEMLINE | 6/Online Algorithm | 7/\$1,000/yr minimum | 7/\$1,000/yr minimum | 7/\$1,000/yr minimum |
| CLINPROT | Online Algorithm | \$1,000/yr minimum | \$1,000/yr minimum | \$1,000/yr minimum |
| DIRLINE | Online Algorithm | \$1,000/yr minimum | \$1,000/yr minimum | \$1,000/yr minimum |
| HAZARDOUS SUBSTANCES DATA BANK (HSDB) | 8/Online Algorithm | 9/\$2,500/yr minimum | Not yet available | Not yet available |
| HEALTH PLANNING | Online Algorithm | \$3,000/yr minimum | \$3,000/yr minimum | \$3,000/yr minimum |
| HISTLINE | Online Algorithm | \$1,000/yr minimum | \$1,000/yr minimum | \$1,000/yr minimum |
| INFORM | Online algorithm excluding the charge for cita- tions and characters; no offline processing | No minimum or flat rate; online algorithm excluding the charge for cita- tions and characters; no offline processing | Not available | Not available |

NLM DOMESTIC AND FOREIGN CHARGES EFFECTIVE JANUARY 1, 1986

| Database | Online Charges | | Leased Tape Charges | |
|---------------------|---|--|---|---|
| | Domestic 1/ | Foreign 2/ | Domestic 3/ | Foreign 4/ |
| INTROMED | Online algorithm excluding the charge for citations and characters; no offline processing | No minimum or flat rate; online algorithm excluding the charge for citations and characters; no offline processing | \$1,000/yr; No usage charges | \$1,250/yr; No usage charges |
| INTROTOX | 8/Online algorithm for connect time only; no offline processing | 10/No minimum or flat rate; online algorithm for connect time only; no offline processing | Not yet available | Not yet available |
| MEDLEARN | \$22/hr prime time; \$15/hr non-prime time; no offline processing | 11/No minimum; \$25/hr prime time; \$18/hr non-prime time; no offline processing | Not available | Not available |
| MEDLINE & BACKFILES | Online Algorithm | \$15,000/yr minimum | Base file: (1966 up to the current year) \$10,000 /yr minimum Current year: \$5,000/yr minimum | Base file: (1966 up to the current year) \$10,000 /yr minimum Current year: \$5,000/yr minimum |
| MeSH VOCABULARY | Online Algorithm | No minimum; Usage charges only | \$1,000/yr; Free with MEDLINE; No usage charges | \$1,250/yr; Free with MEDLINE; No usage charges |
| NAME AUTHORITY | Online Algorithm | No minimum; Usage charges only | \$1,000/yr; No usage charges | \$1,250/yr; No usage charges |

NLM DOMESTIC AND FOREIGN CHARGES EFFECTIVE JANUARY 1, 1986

| <u>Database</u> | <u>Online Charges</u> | | <u>Leased Tape Charges</u> | |
|----------------------------|---|--|--|--|
| | <u>Domestic 1/</u> | <u>Foreign 2/</u> | <u>Domestic 3/</u> | <u>Foreign 4/</u> |
| PDQ | \$22/hr prime time; \$15/hr non-prime time; no offline processing | 11/\$1,000/yr minimum; \$25/hr prime time; \$18/hr non-prime time; no offline processing | Not available | Not available |
| POPLINE | Online Algorithm | \$2,000/yr minimum | \$2,000/yr minimum | \$2,000/yr minimum |
| RTECS | 12/Online Algorithm | 13/\$1,000/yr minimum | 14/\$1,000/yr minimum | 15/\$1,000/yr minimum |
| SDILINE | Online Algorithm | No minimum; Usage charges only | \$5,000/yr minimum (if leased separately from MEDLINE) | \$5,000/yr minimum (if leased separately from MEDLINE) |
| SERLINE | Online Algorithm | No minimum; Usage charges only | \$1,000/yr; No usage charges | \$1,250/yr; No usage charges |
| TOXICOLOGY DATA BANK (TDB) | 8/Online Algorithm (THIS FILE TO BE DISCONTINUED SEPTEMBER 30, 1986) | 9/\$2,500/yr minimum | Not yet available | Not yet available |
| TOXLINE | 16/Online Algorithm | 7/\$2,500/yr minimum | 7/Current file: (1981 through the current year) \$2,500/yr minimum | 7/Current file: (1981 through the current year) \$2,500/yr minimum |
| | | | Backfiles: (1965-75 and 1976-80) \$2,500/yr minimum for each back-file | Backfiles: (1965-75 and 1976-80) \$2,500/yr minimum for each back-file |

NOTES: In addition to the above rates the following charges apply to each Domestic and Foreign Online Center: \$1 per Offsearch per file; and \$1 per Automatic SDI. Automatic SDI searches on the TOXLINE database are \$3.00 for domestic users (\$1.00 plus \$2.00 royalty). The \$15 monthly per ID code was discontinued on April 1, 1985.

-
- 1/ ELHILL online charges for domestic users are calculated by using an algorithm which includes connect hour charges and charges for search statements, citations, interactions (i.e., carriage returns), computer resources (i.e., disk accesses), and characters transmitted to the user's terminal. Unless otherwise noted, the connect hour charge portion of the algorithm is \$7.25/hour prime time and \$4.50/hour non-prime time, and the offline print charge is \$0.18 per page. Details of the entire algorithm follow these footnotes.
- 2/ ELHILL online charges for foreign users are calculated using an algorithm which includes connect hour charges and charges for search statements, citations, interactions (i.e., carriage returns), computer resources (i.e., disk accesses), and characters transmitted to the user's terminal. Each database, except the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MeSH VOCABULARY file, MEDLEARN and the INFORM and INTROMED databases, has a minimum against which usage is charged. Unless otherwise noted, the connect hour charge portion of the algorithm is \$10.25/hour prime time and \$7.50/hour non-prime time, and the offline print charge is \$0.28 per page. Usage over the minimum will be calculated at the rate of the file being accessed. The dollar equivalent of usage over the minimum on one file will be applied to the minimum for the other file(s). Usage on a technical database, the MESH VOCABULARY file, MEDLEARN, INFORM and INTROMED may not be applied to a minimum on another database. Details of the entire algorithm follow these footnotes.
- 3/ ELHILL tape charges for domestic users consist of an annual minimum charge for each database except the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MeSH VOCABULARY file, MEDLEARN, and INTROMED. Unless otherwise noted, usage charges of \$4.00/connect hour and \$0.01/offline citation are applied to the annual minimum. (The use charge is \$3.00/connect hour between 6:00 p.m. and 6:00 a.m. local time Monday through Friday, and all day Saturday and Sunday. This time period is referred to as tape non-prime time) Usage over the minimum will be charged the rate of the file being accessed. For institutions or organizations leasing two or more files with a minimum plus usage, the dollar equivalent of usage over the minimum for one file may be applied to the minimum for the other files(s).

An annual flat fee, with no usage charges, will be charged for each of the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MeSH VOCABULARY File, and INTROMED. Usage on other leased databases may not be applied to these annual flat-rate fees.

Domestic centers providing service to foreign users will be charged at the foreign rate for this portion of their service.

Extra charges are levied for class-maintained files or special formats. Prices for files and formats currently available are:

| | |
|------------------------------------|--------------|
| SDILINE GENER Format | \$1,000/year |
| CLASS-MAINTAINED MEDLINE Backfiles | \$3,000/year |

Charges for physical tapes and shipping are included in the minimum charges for each database.

- 4/ ELHILL tape charges for foreign users and the portion of foreign use provided by domestic centers consist of an annual minimum charge for each database except the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MeSH VOCABULARY file, and INTROMED. Unless otherwise noted, usage charges of \$7.00/connect hour and \$0.03/offline citation are applied to the annual minimum. (The use charge is \$6.00/connect hour between 6:00 p.m. and 6:00 a.m. local time Monday through Friday, and all day Saturday and Sunday. This time is referred to as tape non-prime time.) Usage over the minimum will be charged the rate of the file being accessed. For institutions or organizations leasing two or more files with a minimum plus usage, the dollar equivalent of usage over the minimum for one file may be applied to the minimum for the other file(s).

An annual flat fee, with no usage charges, will be charged for each of the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MeSH VOCABULARY File, and INTROMED. Usage on other leased databases may not be applied to these annual flat-rate fees.

Extra charges are levied for class-maintained files or special formats. Prices for files and formats currently available are:

| | |
|------------------------------------|--------------|
| SDILINE GENER Format | \$1,000/year |
| CLASS-MAINTAINED MEDLINE Backfiles | \$3,000/year |

Charges for physical tapes and shipping are included in the minimum charges for each database.

- 5/ Available in ELHILL or MARC version except for weekly updates of the current-year CATLINE file which are available only in MARC.
- 6/ CHEMLINE royalty charges of \$0.09 per citation and \$44.00 per hour of connect time are added to the algorithm. Offline page charges of \$0.66 per page include \$0.48 per page royalty. Royalty charges are subject to change without advance notice.
- 7/ CHEMLINE and TOXLINE royalties are negotiated with and paid to file content providers such as CAS, BIOSIS and ASHP, and not to NLM.
- 8/ TOXNET (HSDB, TDB, CCRIS & INTROTOX) online charges are calculated for domestic users by using an algorithm which includes connect hour charges and charges for search statements, interactions (i.e., carriage returns) and characters created for transmission to the user's terminal (INTROTOX is charged only the connect hour portion). Unless otherwise noted, the connect hour portion of the algorithm is

\$60.25/hour prime time and \$56.50/hour non-prime time, and the offline print charge is \$0.60 per page.

- 9/ TOXNET (includes HSDB, TDB, CCRIS & INTROTOX) online charges are calculated for foreign users by using an algorithm which includes connect hour charges and charges for search statements, interactions (i.e., carriage returns), and characters created for transmission to the user's terminal (INTROTOX is charged only the connect hour portion). Since much of the data in TOXICOLOGY DATA BANK is repeated in the more comprehensive HAZARDOUS SUBSTANCES DATA BANK, only one minimum of \$2,500 will be charged in Fiscal Year 1986 for both files; this \$2,500 minimum charge for TDB/HSDB will also cover CCRIS access through September 30, 1986. A minimum for each file will be introduced in the future. Unless otherwise noted, the connect hour portion of the algorithm is \$63.25/hour prime time and \$59.50/hour non-prime time, and the offline print charge is \$0.70 per page. Usage over the minimum charges will be calculated at the rate of the file being accessed. The dollar equivalent of usage over the minimum on each of these files may be applied to the minimum for other MEDLARS databases on either ELHILL or TOXNET.
- 10/ INTROTOX may only be requested if either HAZARDOUS SUBSTANCES DATA BANK, TOXICOLOGY DATA BANK or CHEMICAL CARCINOGENESIS RESEARCH INFORMATION SYSTEM has been requested. Usage on INTROTOX may not be applied to a minimum on any other MEDLARS database. Online charges for foreign users are \$63.25/hour prime time and \$59.50/hour non-prime time.
- 11/ Usage is charged separately, i.e., usage on this file may not be applied to the aggregate minimum charges.
- 12/ Online algorithm for RTECS for domestic users includes connect charges of \$39.00 per hour non-prime time and \$42.75 per hour prime time; offline prints are \$0.41 per page.
- 13/ Online algorithm for RTECS for foreign users includes connect charges of \$42.00 per hour non-prime time and \$45.75 per hour prime time; offline prints are \$0.51 per page.
- 14/ For domestic RTECS tape users, usage charges of \$22/connect hour and \$0.17/offline citation are applied to the annual minimum. (The use charge is \$21/connect hour during tape non-prime time--see Footnote 3.)
- 15/ For foreign RTECS tape users, usage charges of \$25/connect hour and \$0.19/offline citation are applied to the annual minimum. (The use charge is \$24/connect hour during tape non-prime time -- see Footnote 4.)
- 16/ TOXLINE royalty charges of \$0.08 per citation and \$58.10 per hour of connect time are added to the online algorithm. Offline page charges of \$0.57 per page include \$0.39 per page royalty. Royalty charges are subject to change without advance notice.

NLM TECHNICAL BULLETIN • APR 1986

CHARGES EFFECTIVE JANUARY 1, 1986

NLM ONLINE PRICING ALGORITHM CHARGES TO DOMESTIC USERS¹

| File | Connect Charge (Per Hour) | | Search Statement Charge | Online Citation Charge | Interaction Charge (Carriage Returns) | Computer Resources Disk Accesses (Per 100) | | Online Character Charges (Per 1,000) | | Average Searcher Charges* (Per Hour) | |
|----------------------|---------------------------|----------|-------------------------|------------------------|---------------------------------------|--|-------|--------------------------------------|-------|--------------------------------------|---------|
| | Non-Prime | Prime | | | | Non-Prime | Prime | Non-Prime | Prime | Non-Prime | Prime |
| <u>ELHILL System</u> | | | | | | | | | | | |
| MEDLINE & Backfiles | \$ 4.50 | \$ 7.25 | \$.01 | \$.01 | \$.01 | \$.06 | \$.12 | \$.08 | \$.12 | \$15.00 | \$22.00 |
| TOXLINE & Backfiles | 62.60** | 65.35** | .01 | .09** | .01 | .06 | .12 | .08 | .12 | 88.00 | 95.00 |
| CHEMLINE | 48.50*** | 51.25*** | .01 | .10*** | .01 | .06 | .12 | .08 | .12 | 60.00 | 67.00 |
| RTECS | 39.00 | 42.75 | .01 | .01 | .01 | .06 | .12 | .08 | .12 | 48.00 | 55.00 |
| INFORM | 4.50 | 7.25 | .01 | - | .01 | .06 | .12 | - | - | 7.00 | 10.00 |
| INTROMED | 4.50 | 7.25 | .01 | - | .01 | .06 | .12 | - | - | 7.00 | 10.00 |
| All Other | 4.50 | 7.25 | .01 | .01 | .01 | .06 | .12 | .08 | .12 | 15.00 | 22.00 |
| MEDLEARN | 15.00 | 22.00 | - | - | - | - | - | - | - | 15.00 | 22.00 |
| PDQ | 15.00 | 22.00 | - | - | - | - | - | - | - | 15.00 | 22.00 |
| <u>TOXNET System</u> | | | | | | | | | | | |
| HSDB | 56.50 | 60.25 | .01 | - | .01 | - | - | .08 | .12 | 68.00 | 75.00 |
| TDB | 56.50 | 60.25 | .01 | - | .01 | - | - | .08 | .12 | 68.00 | 75.00 |
| CCRIS**** | 56.50 | 60.25 | .01 | - | .01 | - | - | .08 | .12 | 68.00 | 75.00 |
| INTROTOX | 56.50 | 60.25 | - | - | - | - | - | - | - | 56.50 | 60.25 |

*Average searcher charges per hour may differ according to computer resources used and citations and characters printed online.

**Includes royalty charges of \$58.10 per connect charge and \$0.08 per citation charge for TOXLINE and its Backfiles (TOX76 and TOX65).

***Includes royalty charges of \$44.00 per connect charge and \$0.09 per citation charge for CHEMLINE.

****CCRIS became available on February 25, 1986.

NLM OFFLINE CHARGES TO DOMESTIC USERS¹

| | <u>Pages</u> | <u>Per Page</u> |
|-------------------------------|--------------|--|
| MEDLINE and other databases | | \$0.18 |
| TOXLINE, TOXBACK76, TOXBACK65 | | 0.57 (Includes \$0.39 royalty charge per page) |
| CHEMLINE | | 0.66 (Includes \$0.48 royalty charge per page) |
| TOXNET (TDB, HSDB or CCRIS) | | 0.60 |
| RTECS | | 0.41 |

| <u>Offsearches</u> | <u>Per File</u> |
|--------------------|----------------------------|
| All databases | \$1.00 (Plus page charges) |

| <u>Automatic SDI Searches</u> | <u>Per Search Each Month</u> |
|--|--|
| SDILINE, HEALTH, CATLINE, CANCERLIT, AVLINE, POPLINE | \$1.00 (Plus page charges) |
| TOXLINE | 3.00 (Plus page charges: includes \$2.00 royalty charge) |

Federal, state, and/or local taxes are not included. Terminals and telephone/line charges are the responsibility of the institution or individual accessing MEDLARS. Current prime time is 10:00 am to 5:00 pm Eastern Time, Monday through Friday. All other time is non-prime time.

1/ Notes on NLM Charges to Foreign Users: In general, foreign users under the online pricing algorithm are charged \$3.00 extra on the connect charge portion and \$0.10 extra per offline page, and are not charged amounts designated as royalties. These royalties are negotiated separately with and paid directly to the database producers and not to NLM by the coordinating online foreign MEDLARS center.

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| DIRLINE Self-Instructional Guide | Feb 85 | 190 |
| GRATEFUL MED Order Form | Mar 86 | 203 |
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| MEDLINE Pocket Card | Oct 85 | 198 |
| PDQ Version 2, Highlights | Dec 85 | 200 |
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| Technical Bulletin Index 3/84 - 12/85 | Feb 85 | 190 |
| Technical Bulletin Index 1/85 - 6/85 | Jul 85 | 195 |
| TOXNET Preliminary Search Guide | Oct 85 | 198 |
| TOXNET Fact Sheets | Mar 86 | 203 |
| Training Trainers Workshop at MLA, application | Feb 85 | 190 |
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~~*SERVICE DESK*~~

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The NLM Technical Bulletin

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New Enhancements To PDQ

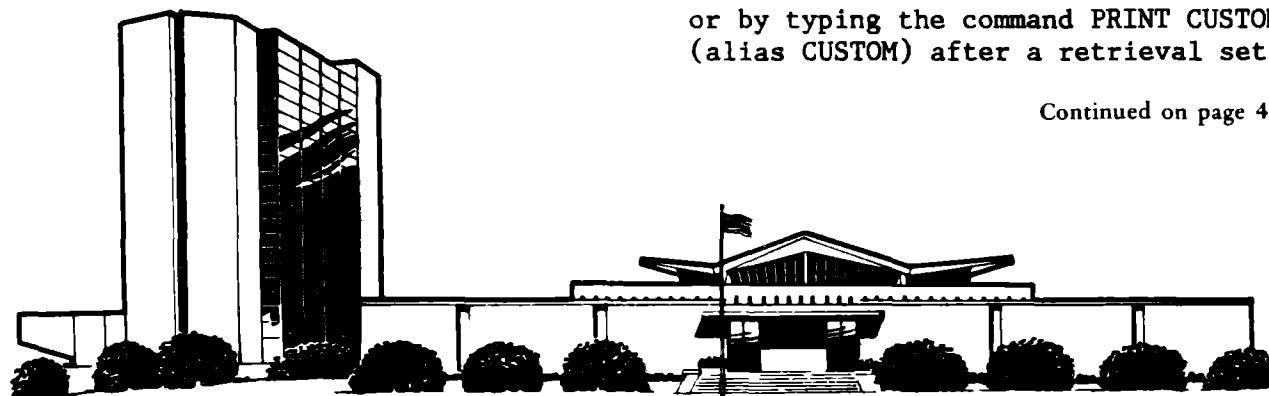
Jane L. Bryant
National Cancer Institute and
MEDLARS Management Section, NLM

Several enhancements have been made to the PDQ (Physician Data Query) database over the last month. These include the addition of a PRINT CUSTOM option and a menu selection capability for news items, as well as some changes to existing features. These changes are summarized below.

PRINT CUSTOM

A PRINT CUSTOM option is now available in the Protocols file. This new feature allows one to "customize" the printing of protocols, limiting print output to only those protocol data elements that are of interest. (Previously, only standard pre-defined print formats were available.) Users select specific data elements in the order in which they want them to be displayed. PRINT CUSTOM may be selected from the Protocol Print Menu or by typing the command PRINT CUSTOM (alias CUSTOM) after a retrieval set

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| DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|-----------------|---------------|--------------------------|-------------------|-------------------|
| (ELHILL SYSTEM) | | | | |
| AVLINE | 14,766 | THROUGH 1986 | 08 MAY 86 | |
| BIOETHICS | 20,202 | JAN 73-1985 | 05 APR 86 | 8604(EM) |
| CANCERLIT | 521,029 | JAN 63-MAY 86 | 03 MAY 86 | 8605(EM) |
| CANCERPROJ | 10,147 | THROUGH 1986 | 09 APR 86 | 8604(EM) |
| CATLINE | 603,760 | THROUGH 1986 | 08 MAY 86 | |
| CHEMLINE | 675,972 | | 12 APR 86 | 8604(EM) |
| CLINPROT | 5,423 | | 25 APR 86 | 8604(EM) |
| DIRLINE | 15,168 | | 24 SEP 85 | |
| HEALTH | 344,040 | JAN 75-JUN 86 | 10 MAY 86 | 8606(EM) |
| HISTLINE | 72,239 | | 03 MAY 86 | 8605(EM) |
| MEDLINE | 610,920 | JAN 84-APR 86 | 03 MAY 86 | 8606(EM) |
| MED83 | 286,615 | JAN 83-DEC 83 | 22 MAR 86 | |
| MED80 | 804,786 | JAN 80-DEC 82 | 19 APR 86 | |
| MED77 | 775,066 | JAN 77-DEC 79 | 08 FEB 86 | |
| MED75 | 642,618 | JAN 75-DEC 76 | 22 FEB 86 | |
| MED71 | 883,317 | JAN 71-DEC 74 | 08 MAR 86 | |
| MED66 | 954,574 | JAN 66-DEC 70 | 05 APR 86 | |
| MESH VOC | 57,142 | 1986 | 09 MAY 86 | |
| NAME AUTH | 196,342 | | 09 MAY 86 | |
| POPLINE | 147,119 | 1970-MAY 86 | 10 MAY 86 | 8605(EM) |
| RTECS | 80,076 | THROUGH JAN 86 | 21 FEB 86 | |
| SDILINE | 27,438 | MAY 86 | 03 MAY 86 | 8606(EM) |
| SERLINE | 66,698 | 1986 | 21 APR 86 | |
| TOXLINE | 755,045 | | 19 APR 86 | 8604(EM) |
| CBAC | 418,120 | 1981-VOL 104(5,6) | | |
| TOXBIB | 157,177 | 1981-MAY 86 | | |
| IPA (ASHP) | 35,835 | 1981 VOL 23(7,8) | | |
| BIOSIS | 28,056 | MAR 1986 | | |
| HEEP | 49,788 | 1981-VOL 14(8) | | |
| PESTAB | 1,536 | 1981 | | |
| EMIC | 12,899 | 1981-MAR 1986 | | |
| ETIC | 12,616 | 1981-APR 1986 | | |
| TD3 | 22,921 | 1981-GRA&I 86(2,3,4,5) | | |
| HMTC | 1,869 | 1981-APR 1986 | | |
| ILO | 4,621 | MAR 1986 | | |
| RPROJ/CRISP | 10,016 | FISCAL YEARS 1983 & 1984 | | |
| TOXBACK76 | 555,808 | | 27 AUG 84 | |
| CBAC | 298,383 | 1976-1980 | | |
| TOXBIB | 106,643 | 1976-1980 | | |
| IPA (ASHP) | 33,321 | 1976-1980 | | |
| HEEP | 63,796 | 1976-1980 | | |
| PESTAB | 14,757 | 1976-1980 | | |
| EMIC | 17,267 | 1976-1980 | | |
| ETIC | 11,970 | 1976-1980 | | |
| TD3 | 9,671 | 1976-1980 | | |
| TOXBACK65 | 598,424 | | 27 AUG 84 | |
| CBAC | 287,992 | 1965-1975 | | |
| TOXBIB | 155,387 | 1965-1975 | | |
| IPA (ASHP) | 33,876 | 1969-1975 | | |
| HEEP | 54,075 | 1970-1975 | | |
| HAPAB/PESTAB | 18,416 | 1968-1975 | | |
| EMIC | 19,554 | 1950-1975 | | |
| ETIC | 13,694 | 1950-1975 | | |
| TD3 | 839 | PRE-1965-1975 | | |
| HAYES | 10,039 | 1940-1968 | | |
| TMIC | 4,552 | 1940-1975 | | |

(TOXNET SYSTEM)

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| CCRIS | 1,092 | 06 MAR 86 |
| HSDB | 4,139 | 08 MAY 86 |
| TDB | 4,139 | 01 OCT 85 |

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|--|------------------------------|
| Editor: Carolyn B. Tilley | Direct Inquiries to: |
| Assistant Editor: T. Scott Plurchak | MEDLARS Management Section |
| Technical Notes Editor: Patricia E. Healy | National Library of Medicine |
| Grateful Med Page Editor: Kathleen Stenger | Bldg. 38A, Rm. 4n421 |
| (301) 496-6103 | Bethesda, Maryland 20894 |

Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual, 1982 and Supplement, 1984 that is considered most relevant to the item being discussed, e.g., (Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

INDEPENDENCE DAY HOLIDAY SCHEDULE

The NLM computer will be up on a non-guaranteed basis on Friday, July 4, 1986, Independence Day. Non-guaranteed hours will be in effect from 11:15 pm Eastern Time (ET) on Thursday, July 3 to 11:15 pm ET on Friday July 4; that is, if the computer fails at any time after 11:15 pm ET July 3, it is unlikely that it will be restarted until after 11:15 pm ET July 4. The computer room will not be staffed July 4. Non-prime rates will be in effect all day. The MEDLARS Management Service Desk will not be staffed. □

TOXNET DOWNTIME CHANGE

TOXNET scheduled downtime for maintenance has been shifted to a later hour. The system is now

unavailable from 10:00 pm to approximately 11:30 pm Eastern Time, Monday through Friday. Please be sure to logoff TOXNET before 10:00 pm ET. □

CANCERPROJ USING 1986 MESH

Effective April 9, 1986, a class-maintained version of the CANCERPROJ database was made available. The database is now searchable using 1986 MeSH Vocabulary. □

CIM: GREEN AGAIN??

It wasn't intentional that the 1985 Cumulated Index Medicus (CIM) is the same color as the 1984 edition. NLM has been alternating the colors of its bound bibliographies for years, and had specified blue binding for the 1985 CIM. An error was made, and NLM realizes that this will cause problems for librarians and patrons in shelving and retrieving CIM volumes for these two years. If anyone has creative solutions to offer -- blue stick-on materials that work, or some other suggestion -- please let the Office of Inquiries and Publications Management at NLM know (301/496-6308). □

Please access FILE INFORM and type NEWS to see the most recent news item online!

Correction: The phone number of the National Reference Center for Bioethics Literature, Kennedy Institute of Ethics appeared incorrectly in the April issue. The correct number is (202) 625-2383.

Enhancement to PDQ
Continued from page 1

is generated, bypassing the print menu. The first time users choose this option during a logon session, they are prompted to define their format from a menu of available protocol data elements. Once a custom print format has been defined, it is retained for the length of the logon session. (Only one PRINT CUSTOM format may be selected per user session.) Subsequent uses of the PRINT CUSTOM command (bypassing the print menu) automatically invoke the defined format. If this option is chosen again from the Print Menu, the user is given the choice of using, reviewing and/or changing the previously defined format.

Menu Headings

The headings on the menus in the Cancer Information File have been changed. The initial menu is now labeled "Diagnosis Selection" instead of "PDQ Information System". Subsequent menus also begin "Diagnosis Selection by..." (e.g., Diagnosis Selection by body system/site).

PDQ News

The PDQ News now features a menu of "Available News Items" which lists the news items in chronological order. Users select the specific news item or items they wish to view. It is not necessary to display the news in any pre-specified order, nor is it

necessary to read each news item every time the news option is chosen.

Searching By Diagnosis

Searching by diagnosis has also undergone a change in PDQ. In the past, entering a very general diagnosis resulted in a listing of multiple diagnoses containing the term from which a further selection had to be made. For example, entering the term "breast" presented the user with a listing of 10 diagnoses ranging from the general to the specific. Now, in most cases, a general term results in a single, general diagnosis. If a more specific diagnosis is desired, the specific term(s) itself may be entered instead of the general term. In addition, in the Protocols file, users may type the command "NARROW" after they have a retrieval set for a general term. This will result in a listing of more specific diagnoses from which to choose. If they then select one of the more specific terms, it will replace their original general term.

PRINT NAMEs

A new print format, PRINT NAMEs, has been added to the Organizations file. This provides a listing of physicians associated with a particular organization in addition to the information displayed by the PRINT MEDIUM command (Name, Address, City, State, Phone Number, Contact Person, Affiliations). □

Uncataloged Serials In SERLINE

Jan Willis
Serial Records Section, NLM

There are over 1,400 serial titles in SERLINE currently awaiting cataloging at NLM. These titles carry the value "in process" in the Call Number (CA) field. In order to provide better control of the growing backlog of uncataloged serial issues, and to provide better access to these issues for users, call numbers will be assigned to certain selected titles, but full serials cataloging will not be completed at present. Titles will be selected from two main groups: W2 class title changes, and non-English language W1 class serials.

Certain groups of serials will not be selected to bypass full cataloging procedures. These include: 1) titles indexed for MEDLINE and Index Medicus; 2) medical journals in core medical subject areas; and 3) those published in English and major European languages.

W2 Class Title Changes

Under the new system, approximately 20-25 W2 class title changes are processed each month. The SERLINE record for the old title is closed. A new SERLINE record is created for the new title, which carries the same call

number as the previous title. The General Notes (GN) field in SERLINE carries the phrase "uncataloged serial record." The notes also indicate the issue(s) from which bibliographic data was taken to create the record. The new title, however, will not appear in CATLINE.

Non-English Language W1 Class Serials

Beginning in March 1986, approximately 50-60 titles are selected from the backlog each month. The bibliographic records are reviewed against the issue(s) in hand, and updated with information from other databases and bibliographic resources. These titles are assigned W1 class call numbers, but are not cataloged and consequently do not appear in CATLINE. The General Notes (GN) field in the SERLINE record indicates "uncataloged serial record" for these titles.

If full cataloging is completed for any of these selected titles, no changes will be made in the call number assigned. Titles which have bypassed serials cataloging have no value in the U2 (Other File's Unique Identifier) field in SERLINE because there is no corresponding CATLINE record.

Questions about uncataloged serials may be directed to Jan Willis, Serial Records Section, NLM, (301) 496-1218. □

Toxicity Excerpts And Values In HSDB

Philip Wexler
Specialized Information Services, NLM

Although many data fields in HSDB pertain to toxicity, the bulk of this information is clustered in just five data fields within category 5 (see Figure 1).

Central to an understanding of how these data are organized is the distinction made in HSDB between "excerpts" and "values". "Excerpts" contain passages taken verbatim from source documents. The information is generally narrative or qualitative in nature although numeric data may be included. "Values" are quantitative in form, and presented as brief statements.

Human Toxicity Excerpts (HTOX) contain data on the acute, subchronic, or chronic toxicity of the chemical to humans. Such effects as carcinogenicity, mutagenicity and teratogenicity would appear here if the accounts are fully described. Parameters such as study type, route, dose, duration, number exposed,

symptoms and effects may be included here. In vitro human cell studies are also placed in HTOX. Non-human Toxicity Excerpts (NTOX) describe both animal and plant studies, plus laboratory research utilizing microbes and other non-human in vitro systems. Again, carcinogenicity, mutagenicity and teratogenicity information where fully described, would appear here.

Human Toxicity Values (HTXV) contain brief data associated with a particular toxic parameter (e.g., LDLo, TCLo...). Sex, age, and toxic effect are also included where available. Non-human Toxicity Values (NTXV) contain data such as toxic and lethal dosages for non-human species. Sex, age, strain, duration, and toxic effect are included where available. Ecotoxicity Values (ETXV) are drawn essentially from wildlife studies on plants, insects, birds, fish, and feral animals. Note that there is no comparable "excerpt" associated with ecotoxicological studies and that full accounts of toxicity studies on wildlife would appear in NTOX.

Each of the toxicity data fields tends to contain many occurrences for any given HSDB chemical. Users searching for very specific toxic effects would

| | | |
|---------|----|-------------------------------|
| 5. TOXB | ** | TOXICITY / BIOMEDICAL EFFECTS |
| | | |
| TOX | * | Toxicity Excerpts |
| HTOX | | Human Toxicity Excerpts |
| NTOX | | Non-human Toxicity Excerpts |
| TOXV | * | Toxicity Values |
| HTXV | | Human Toxicity Values |
| NTXV | | Non-human Toxicity Values |
| ETXV | | Ecotoxicity Values |

Figure 1

do well to make liberal use of the SAME and PRT HITS commands in order to narrow the search and subsequent display. Several examples illustrating searching of the toxicity data fields appear on the pages immediately following this article.

Other data fields which carry toxicity information are:

Poisoning Potential (PPOT) -- Contains general information related to potential human toxicity. May contain clinically oriented reports.

Skin, Eye, and Respiratory Irritation (SERI) -- Contains information on the irritant effects of chemicals to the listed organs.

Toxic Hazard Rating (TXH) -- A

numerical expression of the degree of toxicity of the chemical.

Minimum Fatal Dose Level (MINF) -- Information on the lowest dose of the chemical (drugs only) reported lethal in humans.

Author's note: This article has been chronically read by Fischer 344 rats and Rainbow trout and found to be generally non-toxic. Extrapolation to online searchers has shown minimal danger to this sub-group if adequate precautions are taken. Rose colored goggles are recommended. Should mind-numbness, lethargy, or sleeplessness occur, dispose of in an open furnace or a secured bibliographic landfill. □

Compile a list of LD50 values for chemicals tested on Japanese quail.

SS 1 /C?
 USER:
 same (etxv) japanese and quail and ld50
 8 OCCURRENCES IN 7 RECORDS
 SS (1) PSTG (7)

SS 2 /C?
 USER:
 prt 2 hits

HSN - 201
 NAME - SYSTOX
 ETKV - LD50 JAPANESE QUAIL ORAL 8.48 MG/KG (95% CONFIDENCE LIMIT
 6.73-10.7 MG/KG), 2 MO OLD FEMALES /92% PURE/ [HDBK OF TOX OF
 PESTICIDES TO WILDLIFE 1984, p. 28]

HSN - 603
 NAME - PROPOXUR
 ETKV - LD50 Japanese quail oral 28.3 mg/kg (95% confidence limit
 20.0-40.0 mg/kg) female 20 mo of age [HDBK OF TOX OF PESTICIDES
 TO WILDLIFE 1984, p. 14]

SS 2 /C?
 USER:

Example 1

Have E. coli been tested for DNA repair with 1,2-dichloroethane?

```

SS 1 /C?
USER:
(name) 1,2-dichloroethane
SS (1) PSTG (1)

SS 2 /C?
USER:
same (ntxv) dna and repair and coli
75 OCCURRENCES IN 74 RECORDS
SS (2) PSTG (74)

SS 3 /C?
USER:
1 and 2
SS (3) PSTG (1)

SS 4 /C?
USER:
prt hits

HSN - 65
NAME - 1,2-DICHLOROETHANE
NTXV - DNA REPAIR ESCHERICHIA COLI MUTATION DOSE 10 UL/PLATE [NIOSH.
RTECS ONLINE FILE, CURRENT FILE 83/8209]

SS 4 /C?
USER:
    
```

Example 2

Has kidney damage ever been reported among textile workers?

```

SS 1 /C?
USER:
same (htox) kidney and textile
2 OCCURRENCES IN 2 RECORDS
SS (1) PSTG (2)

SS 2 /C?
USER:
prt hits

HSN - 81
NAME - 1,4-DIOXANE
HTOX - ...FIVE CASES OF FATAL...POISONING.../IN/ MEN WORKING
IN...TEXTILE FACTORY /WHO/ INHALED EXCESSIVE AMT OF DIOXANE.
SYMPTOMS WERE IRRITATION OF UPPER RESP PASSAGES, COUGHING,
IRRITATION OF EYES, DROWSINESS, VERTIGO, HEADACHE, ANOREXIA,
STOMACH PAINS, NAUSEA, VOMITING, UREMIA, COMA & DEATH. AUTOPSY
REVEALED CONGESTION & EDEMA OF LUNGS & BRAIN, & MARKED INJURY OF
LIVER & KIDNEY. DEATH...ATTRIBUTABLE TO KIDNEY INJURY. BLOOD
COUNTS...SHOWED NO ABNORMALITIES OTHER THAN CONSIDERABLE
LEUCOCYTOSIS. EXPOSURE...UNKNOWN &...DEBATABLE
WHETHER...CHRONIC...OR /ACUTE/. [PATTY. INDUS HYG & TOX 3RD ED
VOL2A,2B,2C 1981-82, p. 3954]

HSN - 4263
NAME - 1,3-DIOXANE
HTOX - AUTOPSY REVEALED CONGESTION & EDEMA OF LUNGS & BRAIN, & MARKED
INJURY OF LIVER & KIDNEY /IN 5 FATAL CASES IN TEXTILE PLANT AFTER
INHALATION/. DEATH... ATTRIBUTED TO KIDNEY INJURY. BLOOD
COUNTS...SHOWED...CONSIDERABLE LEUCOCYTOSIS. EXPOSURE...UNKNOWN
&...DEBATABLE WHETHER...CHRONIC...OR /ACUTE/. /1,4-DIOXANE/
[PATTY. INDUS HYG & TOX 2ND ED VOL2 1963, p. 1540]

SS 2 /C?
USER:
    
```

Example 3

How toxic are coal tar constituents to daphnia?

SS 1 /C?

USER:
(manf) coal and tar
SS (1) PSTG (49)

SS 2 /C?

USER:
daphnia (ntox) or daphnia (etxv)
SS (2) PSTG (142)

SS 3 /C?

USER:
1 and 2
SS (3) PSTG (8)

SS 4 /C?

USER:
prt 1 skip 7 hits

HSN - 5094

NAME - BENZ(C)ACRIDINE

MMFG - NOT PRODUCED COMMERCIALY IN U.S. OCCURS IN URBAN ATMOSPHERES,
GASOLINE ENGINE EXHAUST, & COAL TAR

ETXV - BENZ(C)ACRIDINE 24 HR LC50 IN DAPHNIA PULEX WAS 0.45 MG/L/24 HR.
[SOUTHWORTH GR ET AL; BIOACCUMULATION POTENTIAL AND ACUTE
TOXICITY OF SYNTHETIC FUELS EFFLUENTS IN FRESHWATER BIOTA:
AZAARENES; ENVIRON SCI TECHNOL 12: 1062-6 (1978)]

SS 4 /C?

USER:

Example 4

What are the effects of arsenic on rice crops?

SS 1 /C?

USER:
arsenic (name) and all rice
SS (1) PSTG (1)

SS 2 /C?

USER:
prt hits

HSN - 509

NAME - ARSENIC

NTOX - Rice is particularly sensitive to arsenic residues in soil. One theory to explain the greater sensitivity of rice to arsenic residues maintains that, under waterlogged conditions, soils are in a highly reduced condition and arsenate is reduced to the more phytotoxic arsenite. Another theory is based on the reduction of arsenic to arsine by certain soil fungi. The alkylarsines are foul-smelling gases and are highly toxic to mammals. Trimethylarsine is produced by certain strains of molds in the presence of arsenic trioxide or sodium cacodylate. It has been suggested that arsenic is lost from soils as an alkylarsine. [KIRK-OTHMER. ENCYC CHEM TECH 3RD ED 1978-PRESENT 21(83) 280]

NTOX - Beans, peas, and rice are among the plants most sensitive to arsenic. Cowpeas had decreased yields when exposed to soil having 1 ppm water-soluble arsenic; 25 ppm total soil arsenic was toxic to peas grown in loamy sand. More than 1 ppm arsenic in soybean plant tissue resulted in toxic symptoms. A significant depression in crop yields was evident at soil-arsenic concn of 3-28 ppm water-soluble arsenic and 25-28 ppm total arsenic. [Nat'l Research Council Canada; Effects of Arsenic in the Canadian Environment p.22 (1978) NRCC No.15391]

SS 2 /C?

USER:

Example 5

What is the oral TDLo of carbon tetrachloride in women?

SS 1 /C?

USER:

same (htxv) tdlo and woman and oral
34 OCCURRENCES IN 27 RECORDS
SS (1) PSTG (27)

SS 2 /C?

USER:

same (htxv) tdlo and women and oral
37 OCCURRENCES IN 31 RECORDS
SS (2) PSTG (31)

SS 3 /C?

USER:

1 or 2
SS (3) PSTG (56)

SS 4 /C?

USER:

(name) carbon tetrachloride
SS (4) PSTG (1)

SS 5 /C?

USER:

3 and 4
SS (5) PSTG (1)

SS 6 /C?

USER:

prt hits

HSN - 53

NAME - CARBON TETRACHLORIDE

HTXV - TDLO Woman oral 1800 mg/kg; Toxic Effects: pulmonary system; eye;
coma; behavioral symptoms. [NIOHS. RTECS ONLINE FILE, CURRENT
FILE 83/8209]

SS 6 /C?

USER:

Example 6

GRATEFUL MED

[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Suggestions for this column are appreciated.]

When I search for an author using GRATEFUL MED I get a NO POSTINGS message. Am I doing something wrong?

There are several reasons why an author search may result in a NO POSTINGS message. These reasons are outlined below:

1. Format: Names of authors may be input in almost any format. GRATEFUL MED will reformat the name to the proper format for the file to be searched. (MEDLINE: last name, space, followed by first initial or first and middle initials; CATLINE: last name, comma, space, first name or initial followed by middle name or initial). For example, showing the name as input:

AUTHOR/NAME: Steven Rosenberg
 GRATEFUL MED reformats to:
 all Rosenberg S: (for MEDLINE)
 all Rosenberg, Steven: (for CATLINE)

AUTHOR/NAME: Steven A Rosenberg
 GRATEFUL MED reformats to:
 all Rosenberg SA: (for MEDLINE)
 all Rosenberg, Steven A:(for CATLINE)

AUTHOR/NAME: Rosenberg, Steven
 GRATEFUL MED reformats to:
 all Rosenberg S: (for MEDLINE)
 all Rosenberg, Steven: (for CATLINE)

AUTHOR/NAME: Rosenberg, Steven A
 GRATEFUL MED reformats to:
 all Rosenberg SA: (for MEDLINE)
 all Rosenberg, Steven A:(for CATLINE)

AUTHOR/NAME: Rosenberg
 GRATEFUL MED reformats to:
 all Rosenberg: (for MEDLINE)
 all Rosenberg,: (for CATLINE)

These last examples are input versions that will not be correctly formatted by GRATEFUL MED.

AUTHOR/NAME: Rosenberg Steven
 GRATEFUL MED reformats to:
 all Steven R: (for MEDLINE)
 all Steven, Rosenberg: (for CATLINE)

AUTHOR/NAME: Steven Rosenberg Jr.
 GRATEFUL MED reformats to:
 all Jr SR: (for MEDLINE)
 all jr:, Steven Rosenberg: (CATLINE)

2. Multiple Names: Put only one author name in the author field for proper formatting. More may be included on this line only by using the slash (/) indicating that the line should be sent to the computer "as is". It is especially important that the formatting of the names be in the format expected by MEDLARS in this case. For example:

AUTHOR/NAME: /all Rosenberg S: and
 all Chang A:
 (for MEDLINE)
 /all Rosenberg, Steven:
 and all Chang, Alfred:
 (for CATLINE)

3. Terms denoting honor, academic degrees or forms of address: Do not enter other terms with an author's name e.g., Ph.D., Jr., Sir, 2d, III, MD.

4. Corrections: It is possible to make corrections in the author line by using the DEL, D, or backspace key. These corrections may be entered any time before proceeding to the next input line. Once the line has been entered and the cursor moved to the next input line, GRATEFUL MED will not reformat an author's name a second time. Any changes made to this line would then have to be in the proper MEDLARS search format. This format is discussed in number 1 above.

Items to check when you get a NO POSTINGS message to an author search:

-Time period: The current MEDLINE file covers publication years 1984

to the present; a Backfile search can go back to 1966.

-Spelling and format: Corrections should be input in the proper MEDLARS searching format.

-Form of name: Do not include terms that modify a basic name like Jr., Ph.D, MD., etc. Only use a middle initial if you are sure the author writes consistently using one. □

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p. 3.

Monthly Search Hint

Indexing Topics

Thelma Charen
Senior Technical Adviser
Index Section, NLM

Editor's Note: From time to time, usually in response to a user's inquiry, decisions are made about the indexing of certain concepts that are not immediately reflected in the MeSH tools. These instructions are conveyed to the indexers and to MEDLARS Management Staff by the Senior Technical Adviser in a series of Technical Memoranda. While much of this information is of essential interest to indexers only, some of it (particularly that which deals with relatively new concepts) may be of interest to searchers as well. Therefore, the Monthly Search Hints column will occasionally carry contributions from the Senior Technical Adviser, based on these Technical Memoranda. The first such installment follows.

Artificial Intelligence

In several articles on DIAGNOSIS,

COMPUTER-ASSISTED indexers neglected to use an additional term which should have been brought out in those articles. In a memorandum from Ms. Susanne Humphrey of the Lister Hill Center she stated that while the articles were correctly indexed we did not cover the artificial intelligence angle in the articles. She went on to say, "Artificial intelligence isn't always diagnosis and computer-assisted diagnosis isn't always artificial intelligence. But if the computer-assisted diagnosis involves knowledge bases and reasoning, and if it is not completely based on statistics, it might well be ARTIFICIAL INTELLIGENCE as well as DIAGNOSIS, COMPUTER-ASSISTED."

She went on to name clues which might lead both searchers and indexers to ARTIFICIAL INTELLIGENCE such as the words shown in Figure 1.

Here are some personal names important in the field of artificial intelligence: Edward Shortliffe, Perry Miller, Harry Pople, Jack Myers, Randy Miller -- all supplied by Ms. Humphrey.

I corrected the database.

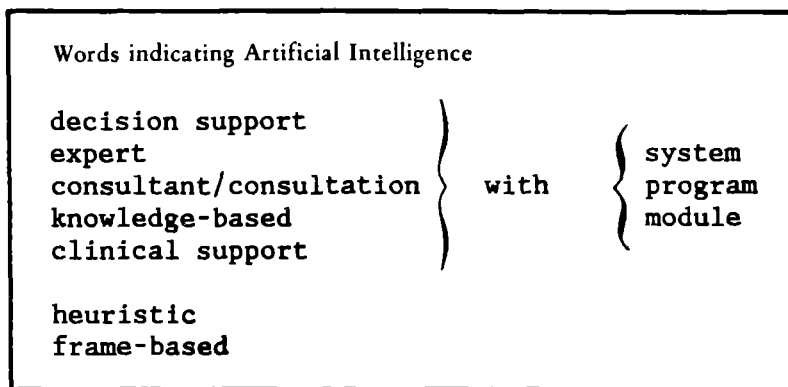


Figure 1

Suction Lipolysis

There is in MeSH the main heading LIPOLYSIS indented in Tree G6 under METABOLISM. Obviously, then, this cannot be used to cover articles on so-called "suction lipolysis", a technic used in the surgery of obesity.

It is referred to in the literature under a variety of terms: fat suction, suction lipectomy, liposuction, etc., in addition to "lipolysis." Any of these expressions may be used to construct a Text Word search.

Search for it using the MeSH Headings ADIPOSE TISSUE/surgery + SUCTION.

Nuclear Reactor Accidents

A searcher called to my attention a lack of uniformity in our indexing of articles on the nuclear reactor accident at Three Mile Island. In view of the possible reports--from whatever national literature--on the disaster at Chernobyl, it may be useful to know the way we made the Three Mile Island articles uniform: all specific aspects of the articles are indexed consonant with the content of the article with the nuclear accident aspects covered by NUCLEAR REACTORS + ACCIDENTS. □

SERIALS UPDATE

INDEXED TITLES UPDATE, MAY 1986

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last

UPDATE. More detailed information about each title may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, APRIL 1986

| | |
|--|---|
| <p>HLI ADMINISTRATIVE RADIOLOGY ADM RADIOL 1,1982?-- GLENDALE PUBLISHING CORPORATION GLENDALE CA UNITED STATES INDEXING BEGAN WITH V.5,1986. ON ORDER 0738-6974 SR0056602 JTC: 6K7 GLENDALE PUBLISHING CORPORATION,1125 NORTH PACIFIC AVE.,GLENDALE CA 91202</p> | <p>INI JOURNAL OF PEDIATRIC NURSING J PEDIATR NURS IN1,FEB 1986-- GRUNE AND STRATTON ORLANDO FL UNITED STATES INDEXING BEGAN WITH VIN1 1986 IN PROCESS 0882-5963 SR0055098 JTC: JNS</p> |
|--|---|

INI JOURNAL OF POST ANESTHESIA NURSING
 J POST ANESTH NUR
 1,1986--
 GRUNE AND STRATTON
 ORLANDO FL UNITED STATES
 INDEXING BEGAN WITH VIN1 1986
 IN PROCESS 0883-9433
 SR0055089 JTC: JS3

TITLE CHANGES, APRIL 1986

| | |
|---|--|
| <p>IM ACTA ACADEMIAE MEDICINAE WUHAN ACTA ACAD MED WUHAN IN1,1981-5N4,1985 WUHAN MEDICAL COLLEGE WUHAN CHINA VOL 1, NO.1 PRECEDED BY AN ISSUE DATED 1980. CONTINUES: WU-HAN I HSUEH YUAN HSUEH PAO. CONTINUED BY: JOURNAL OF TONGJI MEDICAL UNIVERSITY. INDEXING BEGAN WITH VIN1,1981. W1 AC7394 0253-3316 A03992700 JTC: ODF</p> | <p>IM ANIMAL GENETICS ANIM GENET 17N1,1986-- BLACKWELL SCIENTIFIC PUBLICATIONS FOR THE INTERNATIONAL SOCIETY FOR ANIMAL BLOOD GROUP RESEARCH OXFORD ENGLAND CONTINUES: ANIMAL BLOOD GROUPS AND BIOCHEMICAL GENETICS. W1 AN228P 0268-9146 SR0056566 JTC: 4WE</p> |
| <p>IM ANIMAL BLOOD GROUPS AND BIOCHEMICAL GENETICS Anim Blood Groups Biochem Genet 1,1970-16N4,1985 CENTRE FOR AGRICULTURAL PUBLISHING AND DOCUMENTATION WAGENINGEN NETHERLANDS CONTINUED BY: ANIMAL GENETICS. W1 AN228F 0003-3480 A30825000 JTC: 4WC</p> | <p>IM ASAIO TRANSACTIONS ASAIO TRANS IN1,SEP 1986-- LIPPINCOTT PHILADELPHIA UNITED STATES CONTINUES: ASAIO JOURNAL AND TRANSACTION - AMERICAN SOCIETY FOR ARTIFICIAL INTERNAL ORGANS. ON ORDER-TITLECHANGE SR0056315 JTC: ASA</p> |

- IM BIOCHEMICAL MEDICINE
Biochem Med
1,1967-34N3,DEC 1985
ACADEMIC PRESS
NEW YORK UNITED STATES
CONTINUED BY: BIOCHEMICAL MEDICINE AND
METABOLIC BIOLOGY.
WI BI621P 0006-2944
BI4920000 JTC: 9YW
- IM BIOCHEMICAL MEDICINE AND METABOLIC BIOLOGY
BIOCHEM MED METAB BIOL
35N1,FEB 1986--
ACADEMIC PRESS
NEW YORK UNITED STATES
CONTINUES: BIOCHEMICAL MEDICINE.
WI BI621R 0885-4505
SR0056565 JTC: APR
- IM BIOCHEMISTRY AND CELL BIOLOGY
BIOCHEM CELL BIOL
64N1,JAN 1986--
NATIONAL RESEARCH COUNCIL OF CANADA
OTTAWA CANADA
COVER TITLE: CANADIAN JOURNAL OF
BIOCHEMISTRY AND CELL BIOLOGY. CONTINUES:
CANADIAN JOURNAL OF BIOCHEMISTRY AND CELL
BIOLOGY.
WI BI6305 0829-8211
SR0056550 JTC: ALR
- IM CANADIAN JOURNAL OF BIOCHEMISTRY AND CELL
BIOLOGY
CAN J BIOCHEM CELL BIOL
61N1,JAN 1983-63N12,DEC 1985
NATIONAL RESEARCH COUNCIL OF CANADA
OTTAWA CANADA
CONTINUES: CANADIAN JOURNAL OF
BIOCHEMISTRY. CONTINUED BY: BIOCHEMISTRY
AND CELL BIOLOGY.
WI CA572 0714-7511
C03890000 JTC: CHO
- IM CANCER IMMUNOLOGY AND IMMUNOTHERAPY
CANCER IMMUNOL IMMUNOTHER
1, 1976-13N2,1982
SPRINGER VERLAG
HEIDELBERG GERMANY, WEST
CONTINUED BY: CANCER IMMUNOLOGY,
IMMUNOTHERAPY.
INDEXING BEGAN WITH V13,N1,1982.
WI CA679UI 0340-7004
C05520000 JTC: CND
- IM CANCER IMMUNOLOGY, IMMUNOTHERAPY
CANCER IMMUNOL IMMUNOTHER
13N3,1982--
SPRINGER VERLAG
HEIDELBERG GERMANY, WEST
CALLED ALSO: CANCER IMMUNOLOGY AND
IMMUNOTHERAPY. CONTINUES: CANCER
IMMUNOLOGY AND IMMUNOTHERAPY.
WI CA679UL 0340-7004
SR0056567 JTC: CN3
- IM CANCER METASTASIS REVIEWS
CANCER METASTASIS REV
1N1,1982-3N4,1984
NIJHOFF
THE HAGUE NETHERLANDS
CONTINUED BY: CANCER AND METASTASIS
REVIEWS.
INDEXING BEGAN WITH VIN1, 1982
WI CA68L 0167-7659
C05613000 JTC: CNE
- IM CANCER AND METASTASIS REVIEWS
CANCER METASTASIS REV
4N1,1985--
NIJHOFF
BOSTON UNITED STATES
CONTINUES: CANCER METASTASIS REVIEWS.
WI CA6722J 0167-7659
SR0056577 JTC: C9H
- IM CELL MOTILITY
CELL MOTIL
1,1980-5N6,1985
ALAN R. LISS
NEW YORK UNITED STATES
CONTINUED BY: CELL MOTILITY AND THE
CYTOSKELETON.
INDEXING BEGAN WITH VIN1,1980.
WI CE128N 0271-6585
C10785000 JTC: CQF
- IM CELL MOTILITY AND THE CYTOSKELETON
CELL MOTIL CYTOSKELETON
6N1,1986--
ALAN R. LISS
NEW YORK UNITED STATES
CONTINUES: CELL MOTILITY.
WI CE128R 0886-1544
SR0055858 JTC: CRD
- IM INTERNATIONAL JOURNAL OF ORAL AND
MAXILLOFACIAL SURGERY
IDL
INT J ORAL MAXILLOFAC SURG
15N1,FEB 1986--
MUNKSGAARD
COPENHAGEN DENMARK
CONTINUES: INTERNATIONAL JOURNAL OF ORAL
SURGERY.
WI IN77P 0901-5027
SR0056553 JTC: IJO
- IM INTERNATIONAL JOURNAL OF ORAL SURGERY
IDL
Int J Oral Surg
1,1972-14N6,DEC 1985
MUNKSGAARD
COPENHAGEN DENMARK
CONTINUED BY: INTERNATIONAL JOURNAL OF ORAL
AND MAXILLOFACIAL SURGERY.
WI IN77V 0300-9785
I27580000 JTC: GSA

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| <p>HLI JOURNAL - AMERICAN HEALTH CARE ASSOCIATION J AM HEALTH CARE ASSOC 1,1975-12N2,FEB 1986 AMERICAN HEALTH CARE ASSOCIATION WASHINGTON UNITED STATES SUPERSEDES GOVERNING COUNCIL REPORT - AMERICAN HEALTH CARE ASSOCIATION. CONTINUED BY: PROVIDER. NO LONGER INDEXED FOR SPECIAL LIST N. INDEXING FOR SPECIAL LIST H BEGAN WITH V.3N6, 1977. WI J0222UH 0360-4969 J11720000 JTC: H6X</p> | <p>HLI PROVIDER PROVIDER 12N3,MAR 1986-- AMERICAN HEALTH CARE ASSOCIATION WASHINGTON UNITED STATES CONTINUES: JOURNAL - AMERICAN HEALTH CARE ASSOCIATION. ON ORDER 0360-4069 SR0056339 JTC: PRO</p> |
| <p>IM JOURNAL OF MEDICAL AND VETERINARY MYCOLOGY J MED VET MYCOL 24N1,FEB 1986-- CARFAX PUBLISHING ABINGDON, ENGLAND OXFORDSHIRE CONTINUES: SABOURAUDIA. OFFICIAL PUBLICATION OF THE INTERNATIONAL SOCIETY FOR HUMAN AND ANIMAL MYCOLOGY. WI J0749PC 0268-1218 SR0056345 JTC: JMD</p> | <p>IM SABOURAUDIA SABOURAUDIA 1,1961-23N6,DEC 1985 CARFAX PUBLISHING ABINGDON, ENGLAND OXFORDSHIRE V1-21 PUBLISHED QUARTERLY BY LONGMAN GROUP, EDINBURGH SCOTLAND. CONTINUED BY: JOURNAL OF MEDICAL AND VETERINARY MYCOLOGY. WI SA106 0036-2174 S00240000 JTC: USU</p> |
| <p>IM JOURNAL OF TONGJI MEDICAL UNIVERSITY J TONGJI MED UNIV 6N1,1986-- TONGJI MEDICAL UNIVERSITY WUHAN CHINA CONTINUES: ACTA ACADEMIAE MEDICINAE WUHAN. WI J0966JF 0257-716X SR0056411 JTC: KAJ</p> | <p>IM TRANSACTIONS - AMERICAN SOCIETY FOR ARTIFICIAL INTERNAL ORGANS Trans Am Soc Artif Intern Organs 1,1955-30,1984 AMERICAN SOCIETY FOR ARTIFICIAL INTERNAL ORGANS WASHINGTON UNITED STATES CONTINUED BY: ASAI0 TRANSACTIONS. WI TR223Q 0066-0078 T15440000 JTC: WSC</p> |

TITLES NO LONGER INDEXED AS OF APRIL 1986

HLI BULLETIN - AMERICAN PROTESTANT HOSPITAL
 ASSOCIATION
 BULL AM PROTESTANT HOSP ASSOC
 1,1936-47N3,1983?
 AMERICAN PROTESTANT HOSPITAL ASSOCIATION
 CHICAGO UNITED STATES
 VOL. FOR WINTER 1981 NUMBERED V. XLIV, NO.
 1, BUT CONSTITUTES V. XLV, NO. 1.
 WI BU48IP 0003-0635
 B38980000 JTC: BA9

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES, APRIL 1986

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH, and POPLINE are listed in the "INDEXED TITLES UPDATE" section. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill

loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ADVANCES IN FORENSIC SCIENCE
1,1985--
BIOMEDICAL PUBLICATIONS
FOSTER CITY CA UNITED STATES
IN PROCESS
SR0056591
BIOMEDICAL PUBLICATIONS-P.O. BOX
8209,FOSTER CITY CA 94404

COMPUTER MEDICINE
COMPUTER MEDICINE SOCIETY
EALING ENGLAND
ON ORDER
SR0056600
COMPUTER MEDICINE SOCIETY,BOX 779,EALING
LONDON W5,ENGLAND

AMERICAN JOURNAL OF CARDIOVASCULAR PATHOLOGY
1N1,APR 1986--
FIELD AND WOOD
PHILADELPHIA UNITED STATES
ON ORDER
SR0056310 \$75.00
FIELD AND WOOD,1405 LOCUST STREET 11TH
FLOOR,PHILADELPHIA PA 19102

CURRENT OPINION IN CARDIOLOGY
1N1,JAN/FEB 1986--
GOWER ACADEMIC JOURNALS
LONDON ENGLAND
IN PROCESS
SR0056574
GOWER ACADEMIC JOURNALS,MIDDLESEX
HOUSE,34-42 CLEVELAND STREET,LONDON W1P
5FB,ENGLAND

ANTIMICROBIAL AGENTS ANNUAL
1,1986--
ELSEVIER
AMSTERDAM NETHERLANDS
IN PROCESS
SR0056595

DIRECTORY OF PREFERRED PROVIDER
ORGANIZATIONS
1984?--
INSTITUTE FOR INTERNATIONAL HEALTH
INITIATIVES, CLEARINGHOUSE ON PREFERRED
PROVIDER ORGANIZATIONS
BETHESDA MD UNITED STATES
IN PROCESS
SR0056582
INSTITUTE FOR INTERNATIONAL HEALTH
INITIATIVES,5410 GROSVENOR LANE,SUITE
210,BETHESDA MD 20814

BIOMEDICAL CHROMATOGRAPHY
1N1,FEB 1986--
HEYDEN
LONDON ENGLAND
ON ORDER
SR0056614 \$112.00
HEYDON AND SON LTD.,SPECTRUM
HOUSE,HILLVIEW GARDENS,LONDON NW4
2JQ,ENGLAND

GROWTH, GENETICS AND HORMONES
1N1,MAR 1985--
BIOMEDICAL INFORMATION CORPORATION
CHARLOTTESVILLE VA UNITED STATES
ON ORDER
SR0056516
ROBERT M BLIZZARD M.D.,DEPARTMENT OF
PEDIATRICS,UNIVERSITY OF VIRGINIA SCHOOL
OF MEDICINE,CHARLOTTESVILLE VA 22908

CARDIOLOGY EMERGENCY DECISIONS
1N1,MAY 1985--
PW COMMUNICATIONS
SECAUCUS NJ UNITED STATES
ON ORDER
SR0056628
PW COMMUNICATIONS,400 PLAZA DR.,SECAUCUS
NJ 07094

HEMATOLOGIC PATHOLOGY
1,1987--
MARCEL DEKKER
NEW YORK UNITED STATES
ON ORDER
SR0056587 \$84.00

CHROMATOGRAPHY ABSTRACTS
29N1,1986--
ELSEVIER APPLIED SCIENCE PUBLISHERS
LONDON ENGLAND
CONTINUES: GAS AND LIQUID CHROMATOGRAPHY
ABSTRACTS.
IN PROCESS
SR0056561 \$175.00
ELSEVIER APPLIED SCIENCE PUBLISHERS
LTD.,CROWN HOUSE,LITON
ROAD,BARKING,ESSEX IG11 8JU,ENGLAND

ICRDB CANCERGRAM. RNA VIRUSES ASSOCIATED
WITH CANCER
N86/03,MAR 1986--
U.S. NATIONAL CANCER INSTITUTE
BETHESDA MD UNITED STATES
CONTINUES: ICRDB CANCERGRAM. RNA TUMOR
VIRUSES ASSOCIATED WITH CANCER. SERIES
NO.23.
IN PROCESS
SR0056627
ICRDB/MCI,BLDG 82/RM 103,BETHESDA MD
20205

JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS
1,1986--
TECHNOMIC PUBLISHING
LANCASTER PA UNITED STATES
ON ORDER
SR0056697 \$175.00
TECHNOMIC PUBLISHING COMPANY,851 NEW
HOLLAND AVE,BOX 3535,LANCASTER PA 17804

JOURNAL DE BIOMATERIAUX DENTAIRES
1,1985--
COLLEGE FRANCAIS DE BIOMATERIAUX DENTAIRES
PARIS FRANCE
ON ORDER
SR0056597
CAHIERS DE PROTHESE,57 RUE DULONG,PARIS
75017,FRANCE

JOURNAL OF CRITICAL ILLNESS
1N1,JAN 1986--
CLIGGOTT PUBLISHING
GREENWICH CT UNITED STATES
IN PROCESS
SR0056531 \$30.00
CLIGGOTT PUBLISHING COMPANY,55 HOLLY
HILL LANE,BOX 4010,GREENWICH CT 06830

JOURNAL OF THE HONG KONG MEDICAL ASSOCIATION
37N1,MAR 1985
HONG KONG MEDICAL ASSOCIATION
HONG KONG HONG KONG
CONTINUES: BULLETIN-JOURNAL OF THE HONG
KONG MEDICAL ASSOCIATION.
IN PROCESS
SR0056506
MEDICAL LIBRARY,UNIVERSITY OF HONG
KONG,7 SASSOON ROAD,HONG KONG

JOURNAL OF ORTHOMOLECULAR MEDICINE
1N1,1986--
CANADIAN SCHIZOPHRENIA FOUNDATION
REGINA, SASKATCHEW CANADA
AN
IN PROCESS
SR0056584 \$450.00
CANADIAN SCHIZOPHRENIA FOUNDATION, 2229
BROAD STREET,REGINA SASKATCHEWAN,
CANADA S4P 1Y7

JOURNAL OF TUMOR MARKER ONCOLOGY
1N1,SPRING 1986--
MARY ANN LIEBERT
NEW YORK UNITED STATES
ON ORDER
SR0056699 \$90.00

KEY OPHTHALMOLOGY
1985?--
YEAR BOOK MEDICAL PUBLISHERS
CHICAGO UNITED STATES
ON ORDER
SR0056474 \$75.00
YEAR BOOK MEDICAL PUBLISHERS,35 EAST
WACKER DRIVE,CHICAGO IL. 60601

LONG TERM CARE QUARTERLY
1N1,SPRING 1986--
AMERICAN NURSES ASSOCIATION, CENTER FOR
RESEARCH
KANSAS CITY MO UNITED STATES
IN PROCESS
SR0056649
AMERICAN NURSES ASSOCIATION,CENTER FOR
RESEARCH,2420 PERSHING ROAD,KANSAS CITY
MO 64108

MEDICAL LABORATORY PRODUCTS
1N1,JAN 1986--
MEDICAL ECONOMICS
ORADELL NJ UNITED STATES
SUPERSEDES: DIAGNOSTIC MEDICINE. INITIALISM
TITLE: MLP.
ON ORDER - TITLECHANGE
SR0056634
MEDICAL ECONOMICS,680 KINDERKAMACK
ROAD,ORADELL, NJ 07649

NIGERIAN JOURNAL OF BIOCHEMISTRY
1,1985--
AHMADU BELLO UNIVERSITY PRESS
ZARIA NIGERIA
ON ORDER
SR0056653
DEPT OF BIOCHEMISTRY,AHMADU BELLO
UNIVERSITY,ZARIA,NIGERIA

PHARMACOKINETICS
1,1986--
VCH
WEINHEIM GERMANY, WEST
ON ORDER
SR0056526 \$140.00

PROGRES EN PEDIATRIE
1,1986--
DOIN EDITEURS
PARIS FRANCE
IN PROCESS
SR0056578
DOIN EDITEURS,8 PLACE DE L ODEON,75006
PARIS,FRANCE

PROTEINS
1,1986--
ALAN R. LISS
NEW YORK UNITED STATES
ON ORDER
SR0056556 \$12.00

RADIOPHARMACY AND RADIOPHARMACOLOGY YEARBOOK
1,1985--
GORDON AND BREACH
NEW YORK UNITED STATES
ON ORDER
SR0056329 \$47.00
GORDON AND BREACH SCIENCE PUBLISHERS,50
WEST 23RD STREET,NEW YORK NY 10010

SURGICAL JOURNAL OF NORTH INDIA
 INI,1985--
 PRINTS INDIA
 NEW DELHI INDIA
 ON ORDER
 SR0056572
 PRINTS INDIA,11 DARYA GANJ,NEW DELHI
 110002,INDIA

TECHNIQUES IN THE LIFE SCIENCES. CELL
 BIOLOGY
 1,1985--
 ELSEVIER SCIENTIFIC PUBLISHERS IRELAND
 SHANNON IRELAND
 ON ORDER
 SR0056316

TECHNIQUES IN ORTHOPAEDICS
 INI,APR 1986--
 ASPEN
 ROCKVILLE MD UNITED STATES
 ON ORDER
 SR0056633
 ASPEN PUBLISHERS INC.,1600 RESEARCH
 BOULEVARD,ROCKVILLE MD 20850

YEAR BOOK OF HEMATOLOGY
 1986?--
 YEAR BOOK MEDICAL PUBLISHERS
 CHICAGO UNITED STATES
 ON ORDER
 SR0056641
 YEAR BOOK MEDICAL PUBLISHERS,35 E.
 WACKER DR.,CHICAGO IL 60601

YEAR BOOK OF INFECTIOUS DISEASES
 1986--
 YEAR BOOK MEDICAL PUBLISHERS
 CHICAGO UNITED STATES
 ON ORDER
 SR0056637
 YEAR BOOK MEDICAL PUBLISHERS,35 E.
 WACKER DR.,CHICAGO IL 60601

YEAR BOOK OF OTOLARYNGOLOGY - HEAD AND NECK
 SURGERY
 1985--
 YEAR BOOK MEDICAL PUBLISHERS
 CHICAGO UNITED STATES
 CONTINUES: YEAR BOOK OF OTOLARYNGOLOGY.
 IN PROCESS
 SR0056655
 YEAR BOOK MEDICAL PUBLISHERS,35 E.
 WACKER DRIVE,CHICAGO IL 60601

YEAR BOOK OF PULMONARY DISEASE
 1986--
 YEAR BOOK MEDICAL PUBLISHERS
 CHICAGO UNITED STATES
 ON ORDER
 SR0056640
 YEAR BOOK MEDICAL PUBLISHERS,35 E.
 WACKER DR.,CHICAGO IL 60601

YEAR BOOK OF REHABILITATION
 1986--
 YEAR BOOK MEDICAL PUBLISHERS
 CHICAGO UNITED STATES
 ON ORDER
 SR0056639
 YEAR BOOK MEDICAL PUBLISHERS,35 E.
 WACKER DR.,CHICAGO IL 60601

YEAR BOOK OF VASCULAR SURGERY
 1986--
 YEAR BOOK MEDICAL PUBLISHERS
 CHICAGO UNITED STATES
 ON ORDER
 SR0056638
 YEAR BOOK MEDICAL PUBLISHERS,35 E.
 WACKER DR.,CHICAGO IL 60601

THE NLM

GRATEFUL MED Users:
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ISSN 0146-3055

JUNE 1986

No. 206

Technical Bulletin

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Geographic Searching In DIRLINE 9

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Change In NLM's Online Services Training Policy & Programs

Patricia C. Buchan
MEDLARS Management Section, NLM

The National Library of Medicine (NLM) offers training in searching the online databases available through its MEDLARS® system. Training is available to any person who is associated with an organization with an existing MEDLARS access code or to an individual who has already applied for access to NLM's online system.

Effective July 1, 1986, the training requirement is no longer a prerequisite for receiving a MEDLARS access code. Attendance at an Initial Online Services Training Class is still strongly encouraged for all users who intend to do searching for others and for those who plan to teach health professionals how to search.

Continued on page 5



| DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|-----------------|---------------|--------------------------|-------------------|-------------------|
| (ELHILL SYSTEM) | | | | |
| AVLINE | 14,888 | THROUGH 1986 | 12 JUN 86 | |
| BIOETHICS | 20,552 | JAN 73-1986 | 13 JUN 86 | 8606(EM) |
| CANCERLIT | 526,390 | JAN 63-JUN 86 | 07 JUN 86 | 8606(EM) |
| CANCERPROJ | 10,147 | THROUGH 1986 | 09 APR 86 | 8604(EM) |
| CATLINE | 604,783 | THROUGH 1986 | 12 JUN 86 | |
| CHEMLINE | 675,972 | | 12 APR 86 | 8604(EM) |
| CLINPROT | 5,482 | | 22 MAY 86 | 8605(EM) |
| DIRLINE | 15,168 | | 24 SEP 85 | |
| HEALTH | 347,256 | JAN 75-JUL 86 | 17 JUN 86 | 8607(EM) |
| HISTLINE | 72,905 | | 07 JUN 86 | 8606(EM) |
| MEDLINE | 638,395 | JAN 84-JUL 86 | 02 JUN 86 | 8607(EM) |
| MED83 | 286,615 | JAN 83-DEC 83 | 22 MAR 86 | |
| MED80 | 804,786 | JAN 80-DEC 82 | 19 APR 86 | |
| MED77 | 775,066 | JAN 77-DEC 79 | 08 FEB 86 | |
| MED75 | 642,612 | JAN 75-DEC 76 | 19 MAY 86 | |
| MED71 | 883,077 | JAN 71-DEC 74 | 07 JUN 86 | |
| MED66 | 954,574 | JAN 66-DEC 70 | 05 APR 86 | |
| MESH VOC | 57,538 | 1986 | 14 JUN 86 | |
| NAME AUTH | 197,157 | | 02 JUN 86 | |
| POPLINE | 147,735 | 1970-JUN 86 | 07 JUN 86 | 8606(EM) |
| RTECS | 80,076 | THROUGH JAN 86 | 21 FEB 86 | |
| SDILINE | 27,480 | JULY 86 | 02 JUN 86 | 8607(EM) |
| SERLINE | 66,817 | 1986 | 19 MAY 86 | |
| TOXLINE | 774,657 | | 19 MAY 86 | 8605(EM) |
| CBAC | 430,103 | 1981-VOL 104(7,8,9) | | |
| TOXBIB | 160,568 | 1981-JUN 86 | | |
| IPA (ASHP) | 36,479 | 1981-VOL 23(9,10) | | |
| BIOSIS | 30,890 | APR 1986 | | |
| HEEP | 49,788 | 1981-VOL 14(8) | | |
| PESTAB | 1,536 | 1981 | | |
| EMIC | 12,899 | 1981-MAR 1986 | | |
| ETIC | 12,616 | 1981-APR 1986 | | |
| TD3 | 23,542 | 1981-GRA&I 86(6,7) | | |
| HMTC | 1,869 | 1981-APR 1986 | | |
| ILO | 4,760 | APR 1986 | | |
| RPROJ/CRISP | 10,016 | FISCAL YEARS 1983 & 1984 | | |
| TOXBACK76 | 555,808 | | 27 AUG 84 | |
| CBAC | 298,383 | 1976-1980 | | |
| TOXBIB | 106,643 | 1976-1980 | | |
| IPA(ASHP) | 33,321 | 1976-1980 | | |
| HEEP | 63,796 | 1976-1980 | | |
| PESTAB | 14,757 | 1976-1980 | | |
| EMIC | 17,267 | 1976-1980 | | |
| ETIC | 11,970 | 1976-1980 | | |
| TD3 | 9,671 | 1976-1980 | | |
| TOXBACK65 | 598,424 | | 27 AUG 84 | |
| CBAC | 287,992 | 1965-1975 | | |
| TOXBIB | 155,387 | 1965-1975 | | |
| IPA(ASHP) | 33,876 | 1969-1975 | | |
| HEEP | 54,075 | 1970-1975 | | |
| HAPAB/PESTAB | 18,416 | 1968-1975 | | |
| EMIC | 19,554 | 1950-1975 | | |
| ETIC | 13,694 | 1950-1975 | | |
| TD3 | 839 | PRE-1965-1975 | | |
| HAYES | 10,039 | 1940-1968 | | |
| TMIC | 4,552 | 1940-1975 | | |

(TOXNET SYSTEM)

| | | | |
|-------|-------|--|-----------|
| CCRIS | 1,111 | | 04 JUN 86 |
| HSDB | 4,139 | | 22 MAY 86 |
| TDB | 4,139 | | 01 OCT 85 |

Editor: Carolyn B. Tilley
 Assistant Editor: T. Scott Plutchak
 Technical Notes Editor: Patricia E. Healy
 Grateful Med Page Editor: Kathleen Stenger
 (301) 496-6193

Direct Inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 Bldg. 38A, Rm. 4N421
 Bethesda, Maryland 20894

Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual, 1982 and Supplement, 1984 that is considered most relevant to the item being discussed, e.g., (Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

REVISION OF THE DOMESTIC MEDLARS ONLINE MEMORANDUM OF UNDERSTANDING (MOU)

As discussed on page 1 of this issue, effective July 1, 1986, formal training is no longer a prerequisite for receiving a MEDLARS access code. Therefore, item a., under 2., is removed from the MOU, also effective July 1. In the current MOU, 2. and 2.a. appear as follows:

2. The participating organization or individual agrees to:

a. Provide personnel for training;

New copies of the MOU with 2.a. deleted are available upon request from:

MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20894

(800) 638-8480 or (301) 496-6193

It is not necessary for current users to sign a new MOU. Anyone who wishes to re-sign should request a new copy from MMS, sign and date two copies and return them. One copy will then be sent back to the user after counter-signature at NLM. □

TELENET/UNINET NETWORK MERGER

GTE TELENET, Inc. and U.S. Telecom (UNINET) have announced plans for a merger. Formal approval for the merger is expected about July 1, 1986. The data communications side of the merger will be known as TELENET, while the voice communications side will be known as U.S. Sprint. Where there are cities with both TELENET and UNINET numbers, the UNINET number may be disconnected if analyses of the traffic indicate the TELENET number can adequately handle the volume. Where UNINET is the only number in a city, TELENET will evaluate the data traffic and decide whether to retain the node as a TELENET number. In all cases, the TELENET logon protocol will supersede the UNINET logon. More details are expected from TELENET in the near future. Watch future issues of the NLM Technical Bulletin for information on the transition.

Enclosed with this issue is a list of currently available telephone numbers for use in accessing the NLM computer. A new list, reflecting the merger, will be prepared as soon as possible. Anyone having problems with telephone numbers on this list should contact MEDLARS Management. □

TOXNET TELENET ADDRESS CHANGE

TOXNET users who access the TOXNET databases via TELENET are advised that the TOXNET TELENET connect address C 301 634 is no longer operational and cannot be used to access TOXNET. The TELENET connect address C 301 633 is the only address that may be used to access the TOXNET databases. □

CHEMLINE REGENERATION
(Manual 13+)

The CHEMLINE® file is scheduled to be regenerated in June 1986 with several changes and enhancements that will be useful to searchers. All Chemical Abstracts Service (CAS) Registry Numbers, Molecular Formulas and Systematic Names will be updated based on the latest CAS master files. A variety of new and updated non-systematic chemical names will be available in the Synonym (SY) field based on the content of the CAS Index Guide, the latest RTECS and HSDB files, the 1986 MESH® file, and the 1986 edition of USAN and the USP Dictionary of Drug Names, published by the United States Pharmacopeial Convention, Inc. (USP). NLM also will add some names of current biomedical interest. Ring structure data produced under contract will be added to more than 17,000 records and will be current to the end of 1983. The Locator (LO) field will carry the new values MED83, CANCERLIT, and

CANCERPROJ for files on the ELHILL system, as well as HSDB and CCRIS for files on the TOXNET system. The TDB locator will no longer be carried. A new feature of interest in CHEMLINE will be Pharmacologic and/or Therapeutic Category data obtained from USP for over 2,700 drugs. This searchable data will be present in a new Classification Code (CC) field. Following the regeneration, an article fully describing these changes will be published in the NLM Technical Bulletin.□

CATLINE/AVLINE USING 1986 MESH

The CATLINE® and AVLINE databases are being class-maintained in June and will be searchable using the 1986 MeSH Vocabulary. An article describing this regeneration of the CATLINE/AVLINE/NAF files will appear in an upcoming NLM Technical Bulletin.□

Please access FILE INFORM and type NEWS to see the most recent news item online!

Change In Training Policy
Continued from Page 1

Several NLM-authorized training programs are available for searchers interested in developing and/or improving their searching skills. The following descriptions represent these training programs.

I. Initial Online Services Training Class

The Initial Online Services Training Class is designed to introduce primary searchers to basic MEDLARS searching techniques, system capabilities, use of the MeSH vocabulary, free-text searching, and some special searching capabilities. The Initial Online Training Class is composed of modules to accommodate the varying search needs of the attendees.

The first module of the Initial training class is a three-day core course that concentrates on MEDLINE and discusses the system mechanics and capabilities involved in searching MEDLINE. Specifically, Module I provides an introduction to the MEDLARS system and includes the following:

- A. A brief history of MEDLARS with an overview of all available databases.
- B. System mechanics -- access procedures and basic commands.
- C. Special searching capabilities -- free-text searching, STRINGSEARCH, OFFSEARCH, STORESEARCH, and SAVE/SAVESEARCH.
- D. Use of the controlled vocabulary Medical Subject Headings (MeSH).
- E. Explanation of the MEDLINE unit record and formulation of search strategies in the MEDLINE database and its Backfiles.

The second module of the Initial training class is taught in one day and includes presentations and

in-depth discussions of the content, use, and searching methods associated with the chemical and toxicological databases available on the MEDLARS system. These include:

- A. CHEMLINE -- a chemical dictionary file providing synonyms and CAS Registry Numbers for use with TOXLINE®, RTECS, MEDLINE, and TOXNET.
- B. TOXLINE -- a bibliographic file focusing on the toxicology literature and research projects.
- C. An overview of the interrelationships between the chemical and toxicological files including discussions of RTECS (Registry of Toxic Effects of Chemical Substances) and the TOXNET system.

The third module of the Initial training class is a half-day session which covers the scope, content, and mechanics necessary to search the cancer literature found in MEDLARS databases created or sponsored by the National Cancer Institute. In-depth coverage of CANCERLIT and the user-friendly system PDQ is presented as well as an overview of the CANCERPROJ and CLINPROT databases. These files provide various types of cancer-related information ranging from bibliographic data to descriptive information on cancer protocols and clinical trials evaluating cancer treatments.

Most searchers will find it convenient and highly beneficial to attend all modules of the Initial training class. In all three modules, "hands-on" time is allotted so that attendees may interact with the online system and gain practical experience with the techniques presented during the lectures.

There is no charge for the Initial Online Services Training Classes. For application procedures, please see below under "Advanced Online Services Training Class."

II. Advanced Online Services Training Class

The NLM Advanced Online Services Training class is a five-day modular course which details the specialized databases on the MEDLARS system and provides trainees with additional opportunities to improve their searching skills.

The goal of the advanced training is to present the system techniques required to formulate complicated or multi-faceted searches of various NLM databases. These techniques will be discussed according to database groups as follows:

- A. Module I -- The technical services files CATLINE, NAME AUTHORITY FILE, AVLINE, and SERLINE® (1 day).
- B. Module II -- Advanced techniques for searching MEDLINE and the MESH VOCABULARY FILE; information on the specialized databases HEALTH PLANNING & ADMINISTRATION, POPLINE, BIOETHICS, and HISTLINE (1 day).
- C. Module III -- Those files concerned with chemical and toxicological searching, namely, CHEMLINE, TOXLINE, RTECS, and TOXNET (2 days).
- D. Module IV -- Advanced techniques used in searching the cancer information databases CANCERLIT, CLINPROT, CANCERPROJ, and PDQ (1/2 day).
- E. Module V -- The concepts and techniques involved in multiple database searching are covered in a "search workshop" (1/2 day).

There is no charge for the NLM Advanced Training Class. Attendance at an Initial Training Class is a prerequisite for attending the Advanced class.

How to apply

To apply for either the Initial or Advanced Online Training Classes, interested searchers should complete the "Request for NLM Online Training." A request form can be found in Appendix A of this issue. The same form is used for applying for either the Initial or Advanced classes, but only one type of class can be requested per form. Applicants should remember to indicate the modules of the Initial or Advanced classes that they plan to attend as well as the preferred site and dates of the training class. The 1987 schedule of Online Training Classes will be announced in a forthcoming issue of the NLM Technical Bulletin. For information about openings in the 1986 training classes, please contact the MMS Service Desk. Please note that no more than one person per MEDLARS User ID code will be scheduled into each class except where additional space is available.

III. "The Basics of Searching MEDLINE"

NLM has also developed a six-to-eight hour course that covers the basic elements of MEDLINE searching. This course, "The Basics of Searching MEDLINE," was originally designed primarily for health professionals who wish to learn the rudimentary search techniques for MEDLINE. The course does not contain the detail or the coverage of other databases that the full NLM Initial training class provides. "The Basics of Searching MEDLINE" is offered locally throughout the U.S. by NLM-trained instructors. More information about these courses can be obtained from the Regional Online Training and Information

Centers serving each geographic area. (Refer to the January 1986 NLM Technical Bulletin for an article about these Online Training Centers). There may be fees charged for these classes.

IV. Self-Study

To accompany the "Basics of Searching MEDLINE" course, a self-instructional workbook was designed to assist the searcher. The workbook, titled The Basics of Searching MEDLINE: A Guide for the Health Professional, is available from the National Technical Information Service for \$12.00 (plus \$3.00 shipping & handling fee per order). The order number is PB85-232650/GBB. This Guide was designed to illustrate the basic techniques of searching MEDLINE and contains numerous search examples and practice exercises taken from the INTROMED database. INTROMED is a special training database created specifically for use with this class and/or workbook and contains a subset of approximately 20,000 MEDLINE citations. INTROMED is billed at a reduced rate -- approximately one half the charge incurred on MEDLINE. The Guide can be ordered from NTIS, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161.

V. GRATEFUL MED

GRATEFUL MED is a front-end software

package from the National Library of Medicine used for accessing the NLM MEDLARS databases via a personal computer. This software is designed to simplify the search process for an untrained or novice user: Health professionals, scientists, and others with a need for medical information can use GRATEFUL MED to search MEDLINE, its Backfiles, and CATLINE without knowledge of NLM's ELHILL search system, controlled vocabulary (MeSH), or database structure. Experienced searchers can use the "expert" mode to take advantage of some useful and time-saving features, such as automatic login and downloading of citations in any of the MEDLARS databases except those on the TOXNET system.

GRATEFUL MED runs on any member of the IBM PC family and most compatibles with at least 256K RAM and one double-sided, double-density disk drive. It requires a HAYES Smartmodem or completely compatible modem. GRATEFUL MED software can be ordered from the National Technical Information Service at the address listed above (under Section IV) using the order number PB86-158482/GBB at a cost of \$29.95 (plus \$3.00 shipping and handling fee per order).

FOR ADDITIONAL INFORMATION ON THE NLM ONLINE SERVICES TRAINING PROGRAMS, PLEASE CONTACT THE MEDLARS MANAGEMENT SERVICE DESK AT 301/496-6193 OR TOLL-FREE AT 800/638-8480. □

Non-Billed Practice Time Policy Changes

Lois Ann Colaianni
Associate Director for Library Operations, NLM

For the past year (since April 1, 1985), NLM has been offering the equivalent of approximately two hours of practice time for each new access code to be used during the same month the code was assigned. This has been in the form of a \$40 credit for online use to be applied against the first month's bill. In some cases, although the code was approved by NLM early in the month, by the time the user received notification through the mail, the user had only a few days to use the practice time and sometimes was unable to use it at all during that month.

Starting with June 1, 1986 code assignments, any of the \$40 practice time credit not used in the month in which the code was activated will be available for credit in the following month. Thus, it will be possible for new users to spread out practice searching to the following month if the \$40 credit cannot be completely used in the month during which the code was first assigned.

The intent of this change in policy is to allow at least one full month during which the \$40 credit may be used. This practice time will not be extended beyond the first two months of code activation. NLM expects users to have their equipment for searching operational before they apply for a system access code since applications for access codes are processed in one week. □

*Monthly Search Hint***Geographic Searching
In DIRLINE**

Kenneth Alan Collins, Ph.D.
Specialized Information Services, NLM

One of the primary ways to search DIRLINE (Directory of Information Resources Online) is geographically. There are two data elements in the file that focus on location, ZP (Zip Code) and CY (Country). Several points should be kept in mind in order to search successfully on these data elements.

The ZP field contains both U.S. zip codes and, in certain cases, postal codes used by several foreign countries. Truncation of this data element, at least for U.S. locations, is a convenient way to search over areas wider than a single zip code. U.S. zip codes were developed so that each additional digit specifies an increasingly narrow geographic area. By truncating at the appropriate point, a user can carry out a geographic search on a multi-state region, a portion of a state, a city or a part of a city.

It is important to note, however, that both components that now constitute DIRLINE, namely the National Referral Center (NRC) subfile from the Library of Congress, and the National Health Information Clearinghouse (NHIC) subfile from the Department of Health and Human Services, input "expanded" or "Zip + 4" zip codes when available. These are the zip codes seen in business mailings that have the format 11111-2222. Since the ZP field is directly searchable, a user who keys

in only the basic 5-number zip code will fail to retrieve any records which contain that zip code in expanded format. To avoid this problem, individual, "regular" zip codes should always be searched with the truncation symbol, ":". Although the ZP field is designated as rangeable, the addition of these codes, and the resulting introduction of a non-numeric character (the hyphen) has made ranging of this data element unreliable. Users should refrain from ranging on zip code and use truncation instead.

For example, in order to find all organizations located in zip code 20894, the proper search formulation is:

```
SS 1 /C?
USER:
all 20894: (zp)
```

When searching by foreign country in DIRLINE via the CY (Country) field, note that at the present time the NRC subfile has variant names and formats for a number of countries. For example, users searching for organizations in England should search on ENGLAND, GREAT BRITAIN, and UNITED KINGDOM.

U.S. states may be searched by either full name or two-letter U.S. Postal Service abbreviation. The one abbreviation which may not be used is that for Oregon. The abbreviation, OR, is the same as the Boolean operator, and will always be (mis)read as the logical operator.□

GRATEFUL MED

[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Suggestions for this column are appreciated.]

Could you explain that portion of SETUP which allows you to store network phone numbers?

In the first part of SETUP, GRATEFUL MED will ask two questions about equipment. After you have answered these, GRATEFUL MED will display the following menu:

WHAT NETWORK DO YOU WANT TO CALL FIRST?

- 1 TELENET
- 2 UNINET
- 3 TYMNET
- 4 DIRECT

ENTER NUMBER FOLLOWED BY RETURN OR ZERO TO END.

You may choose the four access methods displayed in any order you like. For example, by typing in the number 3 (for TYMNET), you have made TYMNET the first network that GRATEFUL MED will use to call the NLM computer. An old or existing number for TYMNET will then be displayed. If your local TYMNET number is different in any way, you are instructed to enter the new or changed number. To leave the existing

number displayed by GRATEFUL MED unchanged, hit the ENTER key. GRATEFUL MED will then display a second TYMNET number. Again, you may input a changed number or hit the ENTER key to leave the number as is. As a result of inputting two TYMNET numbers, GRATEFUL MED will call NLM using the number input first, then it will try the second.

After input of the TYMNET numbers, you are returned to the initial menu where you may choose a second network. For example, type the number 1 for TELENET. This makes TELENET the second network that GRATEFUL MED will use to call the NLM computer. This will only occur when the TYMNET connection cannot be made. After you have entered these numbers, you will again be returned to the initial screen for a third and then a fourth choice.

If you do not wish to input all of the possible phone numbers during your first SETUP session, you should at least choose each of the options by selecting the appropriate number in turn from the initial menu. Then either hit carriage returns or ENTER in answer to the requests for new phone numbers. This "saves" these options and allows you to input the additional phone numbers at a later time.

If you have not followed the above steps and have "lost" some of the access options, there is a way of

retrieving them. The following steps should be followed:

- Exit from GRATEFUL MED to get to a DOS prompt.
- Type in DEL BLOGIN and press the ENTER key.
- Type in SEARCH. The system will respond with the message: YOU MUST RUN SETUP...
- All phone numbers must then be re-input, as well as your User ID code and password. □

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p.3.

CHANGE IN NLM'S ONLINE SERVICES TRAINING POLICY & PROGRAMS, p.1.

NON-BILLED PRACTICE TIME POLICY CHANGES, p. 8.

SERIALS UPDATE

INDEXED TITLES UPDATE, JUNE 1986

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last

UPDATE. More detailed information about each title may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, MAY 1986

- | | |
|---|--|
| <p>IDL APOLLONIA APOLLONIA (MALMO) INI,1952?-- STUDENTKAREN VID TANDLAEKARHOEGSKOLAN MALMO SWEDEN THIS TITLE IS NOT IN THE NLM COLLECTION INDEXING BEGAN WITH V32N4,1984. ADA 0518-1372 A57165000 JTC: 6JT</p> | <p>INI JOURNAL OF PEDIATRIC NURSING J PEDIATR NURS INI,FEB 1986-- GRUNE AND STRATTON ORLANDO FL UNITED STATES INDEXING BEGAN WITH VINI 1986 IN PROCESS 0882-5963 SR0055098 JTC: JNS</p> |
| <p>IDL CHUNG-HUA YA I HSUEH HUI TSA CHIH CHUNG-HUA YA I HSUEH HUI TSA CHIH INI,1982-- DENTAL ASSOCIATION OF THE REPUBLIC OF CHINA TAIPEI TAIWAN INDEXING BEGAN WITH V4N1,1985. ON ORDER SR0056786 JTC: CHU</p> | <p>INI JOURNAL OF POST ANESTHESIA NURSING J POST ANESTH NURS 1,1986-- GRUNE AND STRATTON ORLANDO FL UNITED STATES INDEXING BEGAN WITH VINI 1986 IN PROCESS 0883-9433 SR0055089 JTC: JS3</p> |
| <p>IDL INTERNATIONAL JOURNAL OF ADULT ORTHODONTICS AND ORTHOGNATHIC SURGERY INT J ADULT ORTHODON ORTHOGNATH SURG INI,1986-- QUINTESSENCE CHICAGO UNITED STATES IN PROCESS 0742-1931 SR0054827 JTC: INJ</p> | <p>INI LONG TERM CARE QUARTERLY LONG TERM CARE Q INI,SPRING 1986-- AMERICAN NURSES ASSOCIATION KANSAS CITY MO UNITED STATES INDEXING BEGAN WITH VINI,SPRING 1986 IN PROCESS SR0056649 JTC: LA5</p> |
| <p>HLI INTERNATIONAL JOURNAL OF TECHNOLOGY ASSESSMENT IN HEALTH CARE INT J TECHNOL ASSESS HEALTH CARE INI,JAN 1985-- CAMBRIDGE UNIVERSITY PRESS CAMBRIDGE ENGLAND INDEXING BEGAN WITH VINI,JAN 1985 W1 IN791MC 0266-4623 I28243000 JTC: GTI</p> | <p>IDL ODONTOLOGISKA FORENINGENS TIDSKRIFT ODONTOL FOREN TIDSKR 1,1937-- ODONTOLOGISKA FORENINGEN STOCKHOLM SWEDEN INDEXING BEGAN WITH V49N5,1985. W1 0D553 0029-8468 002860000 JTC: OEE</p> |
| | <p>HLI PHYSICIAN EXECUTIVE PHYSICIAN EXEC I2N1,JAN-FEB 1986-- AMERICAN ACADEMY OF MEDICAL DIRECTORS TAMPA FL UNITED STATES CONTINUES: MEDICAL DIRECTOR. INDEXING BEGAN WITH V12N1,JAN-FEB 1986 ON ORDER SR0056745 JTC: PBR</p> |

TITLE CHANGES, MAY 1986

| | |
|--|--|
| <p>IDL IM GODISNJAK VOJNOMEDICINSKE AKADEMIJE GOD VOJNOMED AKAD 26,1984-- GRO KULTURA BEOGRAD YUGOSLAVIA SPINE TITLE: GODISNJAK VMA. CONTINUES: ZBORNIK VOJNOMEDICINSKE AKADEMIJE. W1 G0414J 0352-664X SR0056732 JTC: FXG</p> | <p>HLI REVIEW - FEDERATION OF AMERICAN HOSPITALS REV FED AM HOSP 9N3,1976-19N1,JAN/FEB 1986 FEDERATION OF AMERICAN HOSPITALS LITTLE ROCK AR UNITED STATES CONTINUES INVESTORS-OWNED-HOSPITAL REVIEW. CONTINUED BY: REVIEW - FEDERATION OF AMERICAN HEALTH SYSTEMS. W1 RE252H 0148-9496 R28640000 JTC: EUJ</p> |
| <p>IM POP HLI MILBANK MEMORIAL FUND QUARTERLY; HEALTH AND SOCIETY MILBANK MEM FUND Q 51,1973-63N4,FALL 1985 MILBANK MEMORIAL FUND NEW YORK UNITED STATES CONTINUES: MILBANK MEMORIAL FUND QUARTERLY. CONTINUED BY: MILBANK QUARTERLY. W1 MI483D 0160-1997 M35900000 JTC: NOW</p> | <p>IM ZENTRALBLATT FUR BAKTERIOLOGIE, MIKROBIOLOGIE UND HYGIENE. 1. ABT. ORIGINALE B, HYGIENE ZENTRALBL BAKTERIOL MIKROBIOL HYG (B) 171N1,1980-181N6,DEC 1985 GUSTAV FISCHER VERLAG STUTTGART GERMANY, WEST CONTINUES: ZENTRALBLATT FUR BAKTERIOLOGIE. 1. ABT. ORIGINALE B, HYGIENE, KRANKENHAUSHYGIENE, BETRIEBSHYGIENE, PRAVENTIVE MEDIZIN. CONTINUED BY: ZENTRALBLATT FUR BAKTERIOLOGIE, MIKROBIOLOGIE UND HYGIENE. SERIE B, UMWELTHYGIENE, KRANKENHAUSHYGIENE, ARBEITSHYGIENE, PRAVENTIVE MEDIZIN. W1 ZE775BD 0174-3015 Z06616000 JTC: Y5R</p> |
| <p>IM POP HLI MILBANK QUARTERLY MILBANK Q 64N1,1986-- CAMBRIDGE UNIVERSITY PRESS NEW YORK UNITED STATES CONTINUES: MILBANK MEMORIAL FUND QUARTERLY; HEALTH AND SOCIETY. W1 MI483P 0887-378X SR0056775 JTC: M9Q</p> | <p>IM ZENTRALBLATT FUR BAKTERIOLOGIE, MIKROBIOLOGIE UND HYGIENE. SERIE B, UMWELTHYGIENE, KRANKENHAUSHYGIENE, ARBEITSHYGIENE, PRAVENTIVE MEDIZIN ZENTRALBL BAKTERIOL MIKROBIOL HYG -B- 182N1,DEC 1985-- GUSTAV FISCHER VERLAG STUTTGART GERMANY, WEST CONTINUES: ZENTRALBLATT FUR BAKTERIOLOGIE, MIKROBIOLOGIE UND HYGIENE. 1. ABT. ORIGINALE B, HYGIENE. W1 ZE77BDJ SR0056755 JTC: Y56</p> |
| <p>HLI REVIEW - FEDERATION OF AMERICAN HEALTH SYSTEMS REV FED AM HEALTH SYST 19N2,MAR/APR 1986-- FAHS REVIEW LITTLE ROCK AR UNITED STATES CONTINUES: REVIEW - FEDERATION OF AMERICAN HOSPITALS. ON ORDER-TITLECHANGE SR0056785 JTC: RWJ</p> | |

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES, MAY 1986

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH, and POPLINE are listed in the "INDEXED TITLES UPDATE" section. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill

loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ACCOMPLISHMENTS IN ONCOLOGY

INI, MAR 1986--
 J.B. LIPPINCOTT
 PHILADELPHIA UNITED STATES
 ON ORDER
 SR0056730 \$55.00

ACUTE CARE THERAPEUTICS

INI, 1986--
 PRACON INCORPORATED
 FAIRFAX VA UNITED STATES
 IN PROCESS
 SR0056864
 PRACON INCORPORATED, 10390 DEMOCRACY
 LANE, FAIRFAX VA 22030

ADOLESCENT MENTAL HEALTH ABSTRACTS

INI, SUMMER 1983--
 CENTER FOR ADOLESCENT MENTAL HEALTH
 ST LOUIS UNITED STATES
 ON ORDER
 SR0056683
 CENTER FOR ADOLESCENT MENTAL HEALTH,
 WASHINGTON UNIVERSITY, ST. LOUIS MO.

ADVANCES IN NEURAL AND BEHAVIORAL
 DEVELOPMENT

1, 1985--
 ABLEX PUBLISHING
 NORWOOD NJ UNITED STATES
 ON ORDER
 SR0056721
 ABLEX PUBLISHING CORP., 355 CHESTNUT
 STREET, NORWOOD NJ 07648

AIDS-FORSCHUNG

INI, JAN 1986--
 R.S. SCHULZ
 STARNBERGER GERMANY, WEST
 IN PROCESS
 SR0056762
 VERLAG R.S. SCHULZ, BERGER STRASSE 8 BIS
 10, 8136 PERCHA AM STARNBERGER SEE, WEST
 GERMANY

ANIMAL WELFARE INSTITUTE QUARTERLY

30N3, FALL 1981--
 ANIMAL WELFARE INSTITUTE
 WASHINGTON UNITED STATES
 CONTINUES: INFORMATION REPORT; ANIMAL
 WELFARE INSTITUTE.
 IN PROCESS
 A31068000
 ANIMAL WELFARE INSTITUTE, P.O. BOX
 3650, WASHINGTON DC 20007

ANNALS OF CHILD DEVELOPMENT

1, 1984--
 JAI PRESS
 GREENWICH CT UNITED STATES
 ON ORDER
 SR0056722
 JAI PRESS, 36 SHERWOOD PL., GREENWICH CT
 06830

ARCHIVES OF RESEARCH ON INDUSTRIAL
 CARCINOGENESIS

1, 1984?--
 PRINCETON SCIENTIFIC PUBLISHERS
 PRINCETON NJ UNITED STATES
 IN PROCESS
 SR0056810
 PRINCETON SCIENTIFIC PUBLISHERS INC., 301
 N. HARRISON ST., CN 5279, PRINCETON NJ
 08540

ASTHMA AND ALLERGY ADVANCE

198?--
 ASTHMA AND ALLERGY FOUNDATION OF AMERICA
 BETHESDA MD UNITED STATES
 ON ORDER
 SR0056686
 ASTHMA AND ALLERGY FOUNDATION OF
 AMERICA, 9604 WISCONSIN AVE., SUITE 100,
 BETHESDA MD 20814

ATCC QUARTERLY NEWSLETTER

6N1, JAN 1986--
 AMERICAN TYPE CULTURE COLLECTION
 ROCKVILLE MD UNITED STATES
 CONTINUES: QUARTERLY NEWSLETTER / AMERICAN
 TYPE CULTURE COLLECTION.
 IN PROCESS
 SR0056747
 AMERICAN TYPE CULTURE COLLECTION, 12301
 PARKLAWN DR, ROCKVILLE MD 20852

BULLETIN AND CLINICAL REVIEW OF BURN
 INJURIES

INI, JUL 1987?--
 INTERNATIONAL SOCIETY FOR BURN INJURIES
 DENVER CO UNITED STATES
 ON ORDER
 SR0056970
 INTERNATIONAL SOCIETY FOR BURN
 INJURIES, 4200 E 9TH AVE, C309, DENVER CO
 80262

CANCER VICTORS JOURNAL

20N1, SPRING 1986--
 INTERNATIONAL ASSOCIATION OF CANCER VICTORS
 AND FRIENDS
 PLAYA DEL REY CA UNITED STATES
 CONTINUES: CANCER NEWS JOURNAL.
 IN PROCESS
 SR0056812
 INTERNATIONAL ASSOCIATION OF
 CANCER, VICTORS AND FRIENDS, 7740 WEST
 MANCHESTER SUITE 110, PLAYA DEL REY CA
 90293

CARDIOLOGY BOARD REVIEW

INI, NOV 1984--
 MRA PUBLICATIONS
 NEW YORK UNITED STATES
 ON ORDER
 SR0056687
 MRA PUBLICATIONS, 2 PARK AVE., NEW YORK
 NY 10016

CARDIOSTIMOLAZIONE

1N1,1983--
 EDIZIONI LUIGI POZZI
 ROMA ITALY
 IN PROCESS
 SR0056867 \$60.00
 EDIZIONI LUIGI POZZI,RIVISTA
 CARDIOSTIMOLAZIONE,VIA PANAMA 68,00198
 ROMA,ITALY

CBE VIEWS

1,1978?--
 COUNCIL OF BIOLOGICAL EDITORS
 BETHESDA MD UNITED STATES
 OFFICIAL PUBLICATION OF THE COUNCIL OF
 BIOLOGICAL EDITORS.
 IN PROCESS
 SR0056742 \$24.00
 COUNCIL OF BIOLOGICAL EDITORS,9650
 ROCKVILLE PIKE,BETHESDA MD 20814

CLINICAL KIDNEY TRANSPLANTS

1985--
 UCLA TISSUE TYPING LABORATORY
 LOS ANGELES UNITED STATES
 IN PROCESS
 SR0056481
 UCLA TISSUE TYPING LABORATORY,1000
 VETERAN AVENUE,LOS ANGELES CA 90024

CLINICAL PERSPECTIVES IN CARDIOLOGY

1N1,DEC 1983?--
 COMMUNICATIONS IN MEDICINE
 NEW YORK UNITED STATES
 ON ORDER
 SR0056988
 COMMUNICATIONS IN MEDICINE,280 MADISON
 AVE,NEW YORK NY 10016

COMPENDIUM OF DRUG AND PATIENT INFORMATION

1,1985--
 BIOMEDICAL INFORMATION CORPORATION
 NEW YORK UNITED STATES
 CONTINUES: OBSTETRICIANS AND GYNECOLOGISTS
 COMPENDIUM OF DRUG THERAPY.
 ON ORDER
 SR0056536

CONTEMPORARY FAMILY THERAPY

8N1,SPRING 1986--
 HUMAN SCIENCES PRESS
 NEW YORK UNITED STATES
 CONTINUES: INTERNATIONAL JOURNAL OF FAMILY
 THERAPY.
 IN PROCESS
 SR0056995
 HUMAN SCIENCES PRESS, 72 FIFTH AVENUE,
 NEW YORK N Y 10011

CONTEMPORARY ISSUES IN HAEMOSTASIS AND

THROMBOSIS
 1,1985--
 CHURCHILL LIVINGSTONE
 EDINBURGH SCOTLAND
 IN PROCESS
 SR0056609

CONTEMPORARY PEDIATRICS

1N1,JAN 1984?--
 MEDICAL ECONOMICS COMPANY
 ORADELL NJ UNITED STATES
 IN PROCESS
 SR0056596 \$36.00
 MEDICAL ECONOMICS COMPANY,680
 KINDERAMACK ROAD,ORADELL NJ 07649

CONTEMPORARY PERSPECTIVES IN REHABILITATION

1,1986--
 F.A. DAVIS
 PHILADELPHIA UNITED STATES
 IN PROCESS
 SR0056735

CURRENT CONCEPTS IN DIAGNOSTIC NUCLEAR

MEDICINE
 1N1,SPRING 1984?--
 MACMILLAN PROFESSIONAL JOURNALS
 CHICAGO UNITED STATES
 ON ORDER
 SR0056739
 MACMILLAN PROFESSIONAL JOURNALS,640 N.
 LASALLE ST. SUITE 380,CHICAGO IL 60610

CURRENT METHODS IN CELLULAR NEUROBIOLOGY

1N1,1983--
 WILEY
 NEW YORK UNITED STATES
 ON ORDER
 SR0056515

CURRENT THERAPY IN NEPHROLOGY AND

HYPERTENSION
 1984/1985--
 C.V.MOSBY CO.
 ST. LOUIS UNITED STATES
 ON ORDER
 SR0056524
 C.V.MOSBY CO.,11830 WESTLINE INDUSTRIAL
 DR.,ST.LOUIS MO 63141

CURRENT TOPICS IN ENVIRONMENTAL AND

TOXICOLOGICAL CHEMISTRY
 1,198?--
 GORDON AND BREACH SCIENCE PUBLISHERS
 NEW YORK UNITED STATES
 IN PROCESS
 SR0056654
 GORDON AND BREACH SCIENCE
 PUBLISHERS,P.O. BOX 786,COOPER
 STATION,NEW YORK NY 10276

ENVIRONMENTAL POLICY ALERT

NI,1984--
 INSIDE WASHINGTON PUBLISHERS
 WASHINGTON UNITED STATES
 IN PROCESS
 SR0056454
 INSIDE WASHINGTON PUBLISHERS,P.O. BOX
 7167,BEN FRANKLIN STATION,WASHINGTON
 D.C. 20044

GERIATRIC MEDICINE TODAY
 IN1,SEP 1982--
 MED PUBLISHING INC.
 MORGANVILLE NJ UNITED STATES
 FIRST ISSUE CALLED INAUGURAL ISSUE.
 ON ORDER
 SR0056982
 MED PUBLISHING INC.,50 ROUTE
 9,MORGANVILLE NJ 07751

ISRAEL JOURNAL OF VETERINARY MEDICINE
 42N1,1986--
 ISRAEL VETERINARY MEDICAL ASSOCIATION
 TEL AVIV ISRAEL
 CONTINUES: REFUAH VETERINARITH.
 IN PROCESS
 SR0056790
 ISRAEL VETERINARY MEDICAL
 ASSOCIATION,BOX 1071,TEL AVIV,ISRAEL

GERONTOLOGIE AFRICAINE = AFRICAN GERONTOLOGY
 1984--
 CENTRE INTERNATIONAL DE GERONTOLOGIE SOCIALE
 PARIS FRANCE
 ON ORDER
 SR0056682
 CENTRE INTERNATIONAL DE GERONTOLOGIE
 SOCIALE, 91 RUE JOUFFROY, 75017 PARIS
 FRANCE

ITALIAN JOURNAL OF MEDICINE
 IN1,SPRING 1985--
 PENSIERO SCIENTIFICO EDITORE
 ROMA ITALY
 IN PROCESS
 SR0056509
 PENSIERO SCIENTIFICO EDITORE,VIA PANAMA
 46,00198 ROMA,ITALY

HEALTH LETTER / AMERICAN HEALTH FOUNDATION
 INJ,JAN-FEB 1986--
 AMERICAN HEALTH FOUNDATION
 NEW YORK UNITED STATES
 ON ORDER
 SR0056845
 AMERICAN HEALTH FOUNDATION,320 E. 43RD
 STREET,NEW YORK NY 10017

JOURNAL OF BANGLADESH COLLEGE OF PHYSICIANS
 AND SURGEONS
 IN1,AUG 1983--
 BANGLADESH COLLEGE OF PHYSICIANS AND
 SURGEONS INDIA
 DHAKA IN PROCESS
 SR0056605
 BANGLADESH COLLEGE PHYSICIANS,AND
 SURGEONS,MOHAKHALI,DHAKA-12,INDIA

INFECTIONS IN MEDICINE
 IN1,SEP-OCT 1984--
 SCP COMMUNICATIONS
 NEW YORK UNITED STATES
 ON ORDER
 SR0056984
 SCP COMMUNICATIONS INC.,134 W. 29TH
 ST.,NEW YORK NY 10001-5304

JOURNAL OF BUSINESS AND PSYCHOLOGY
 1,1986--
 HUMAN SCIENCE PRESS
 NEW YORK UNITED STATES
 ON ORDER
 SR0056773
 HUMAN SCIENCE PRESS,72 FIFTH AVENUE,NEW
 YORK NY 10011

INTERNATIONAL CANCER NEWS
 N1,JAN 1986--
 INTERNATIONAL UNION AGAINST CANCER (UICC)
 GENEVA SWITZERLAND
 CONTINUES: UICC NEWS.
 IN PROCESS
 SR0056581
 INTERNATIONAL UNION AGAINST CANCER,3 RUE
 DU CONSEIL-GENERAL,1205 GENEVA,
 SWITZERLAND

JOURNAL OF CURRENT PODIATRIC MEDICINE
 35N1,JAN 1986--
 CURRENT PODIATRY PUBLICATIONS
 BEARSVILLE NY UNITED STATES
 CONTINUES: CURRENT PODIATRIC MEDICINE.
 IN PROCESS
 SR0056729 \$15.00
 CURRENT PODIATRY PUBLICATIONS INC., P.O.
 BOX 458, BEARSVILLE NY 12409

INTERNATIONAL JOURNAL OF INDUSTRIAL
 ERGONOMICS
 1,1986--
 ELSEVIER
 AMSTERDAM NETHERLANDS
 ON ORDER
 SR0056707 \$73.75

JOURNAL OF THE EGYPTIAN NATIONAL CANCER
 INSTITUTE
 NATIONAL CANCER INSTITUTE, AND CAIRO
 UNIVERSITY PRESS
 CAIRO EGYPT
 ON ORDER
 SR0056780
 NATIONAL CANCER INSTITUTE AND CAIRO
 UNIVERISTY PRESS, 20 GAMAL EL-DIN, ABOU
 EL-MAHASIAN, GARDEN CITY, CAIRO, EGYPT

INTERNATIONAL JOURNAL OF PANCREATOLOGY
 IN1,1986--
 ELSEVIER SCIENCE
 NEW YORK UNITED STATES
 ON ORDER
 SR0056731 \$110.75

JOURNAL OF INTERVENTIONAL RADIOLOGY
 1986--
 LONGMAN GROUP
 HARLOW, ESSEX ENGLAND
 ON ORDER
 SR0056694 \$100.00

JOURNAL / SOCIETY OF OTORHINOLARYNGOLOGY
AND HEAD-NECK NURSES
1N1, SUMMER 1982--
SOCIETY OF OTORHINOLARYNGOLOGY AND
HEAD-NECK NURSES
WARREN OH UNITED STATES
IN PROCESS
SR0056788
SOCIETY OF OTORHINOLARYNGOLOGY, AND
HEAD-NECK NURSES, C/O THE WARREN OTOLOGIC
GROUP, 3893 MARKET STREET, WARREN OH 44484

MATERNAL-CHILD NURSING CURRENTS
33N1, 1986--
ROSS LABORATORIES
COLUMBUS OH UNITED STATES
CONTINUES: PEDIATRIC NURSING CURRENTS.
IN PROCESS
SR0056452
ROSS LABORATORIES, 625 CLEVELAND
AVE, COLUMBUS OH 43216

MIRCEN JOURNAL OF APPLIED MICROBIOLOGY AND
BIOTECHNOLOGY
1, 1985--
OXFORD UNIVERSITY PRESS
OXFORD ENGLAND
"A RESEARCH JOURNAL FOR BIOTECHNOLOGY IN
THE DEVELOPING WORLD"
ON ORDER
SR0057024 \$45.00

NEUROTRAUMA
N1, 1986--
BUTTERWORTHS
BOSTON UNITED STATES
NO. 1 1986 CONSISTS OF THE PROCEEDINGS OF
THE 1ST HOUSTON CONFERENCE ON NEUROTRAUMA.
IN PROCESS
SR0057031

NEW DEVELOPMENTS IN MEDICINE
1N1, JUN 1986--
MATTHEW BENDER
ALBANY NY UNITED STATES
ON ORDER
SR0056778
MATTHEW BENDER AND COMPANY, 1275
BROADWAY, ALBANY NY 12201

OR MANAGER
1N1, APR 1985--
OR MANAGER
BOULDER CO UNITED STATES
THE MONTHLY NEWSLETTER FOR OR DECISION
MAKERS.
ON ORDER
SR0056843
OR MANAGER, 5205 GALLATIN PLACE, BOULDER
CO 80303

PAIN AND ANALGESIA
1985--
PAIN AND ANALGESIA
SECAUCUS NJ UNITED STATES
SPONSORED AS A SERVICE TO PHYSICIANS BY
BRISTOL-MYERS COMPANY.
ON ORDER
SR0056632
PAIN AND ANALGESIA, 400 PLAZA
DRIVE, SECAUCUS NJ 07094

PERSPECTIVES IN GERIATRICS
1N1, FEB 1985--
STA COMMUNICATIONS
POINTE CLAIRE, CANADA
QUEBEC
ON ORDER
SR0056630
STA COMMUNICATIONS, 63 PLACE
FRONTENAC, POINTE CLAIRE QUEBEC, CANADA

PRE- AND PERI-NATAL PSYCHOLOGY JOURNAL
1, 1986--
HUMAN SCIENCES PRESS
NEW YORK UNITED STATES
ON ORDER
SR0056774
HUMAN SCIENCE PRESS, 72 FIFTH AVENUE, NEW
YORK NY 10011

QUALITY ASSURANCE AND UTILIZATION REVIEW
1N1, FEB 1986--
WILLIAMS AND WILKINS
BALTIMORE UNITED STATES
IN PROCESS
SR0056342 \$50.00

SEMINARS IN RESPIRATORY INFECTIOUS DISEASE
1N1, MAR 1986--
GRUNE AND STRATTON
ORLANDO FL UNITED STATES
ON ORDER
SR0057006
GRUNE & STRATTON INC., ORLANDO FLA 32887

STOFFWECHSELKRANKHEITEN
5N1, FEB 1986--
PMI VERLAG
FRANKURT/MAIN GERMANY, WEST
CONTINUES: DIABETES MELLITUS.
IN PROCESS
SR0056220 \$19.00
PMI VERLAG GMBH, HEINSTRASSE, 14 6000
FRANKFURT, WEST GERMANY

TRANSITIONS IN MENTAL RETARDATION
1,1984--
ABLEX PUBLISHING
NORWOOD NJ UNITED STATES
AN OFFICIAL SERIES OF NORTHEAST REGION X OF
THE AMERICAN ASSOCIATION ON MENTAL
DEFICIENCY.
ON ORDER
SR0056311
ABLEX PUBLISHING CORP., 355 CHESTNUT
ST., NORWOOD NJ 07648

WORLD PEDIATRICS AND CHILD CARE
1N1, APR-JUN 1985--
INTERPRINT
NEW DELHI INDIA
OFFICIAL PUBLICATION OF THE INTERNATIONAL
ACADEMY OF PEDIATRIC TRANSDISCIPLINARY
EDUCATION, AN ORGAN OF THE INTERNATIONAL
COLLEGE OF PEDIATRICS.
ON ORDER
SR0056466

TRAINEE INFORMATION

1. Reason for Training: Check only one.

___ Primary Searcher ___ Secondary/Backup Searcher ___ Other: _____

2. Online Training Courses Attended: Give dates/sites if known.

___ NLM INITIAL CLASS _____

___ BASICS OF MEDLINE _____

___ SIS SHORT COURSE _____

___ OTHER (SPECIFY) _____

3. Previous experience with NLM Databases: Specify approximate connect hours used per month.

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TOXNET ___ CATLINE ___ AVLINE ___ OTHER: _____

4. Experience with other online systems: Check all that apply.

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SDC ___ MEAD ___ WILSONLINE ___ PAPERCHASE ___ OTHER: _____

5. Experience with online interfaces/software packages:

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NOTE:

If you are applying for a USERID Code, be sure to include the Application for Access, two copies of the Memorandum of Understanding, and two copies of the Online Billing Agreement with this "Request for Training" application.

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MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20894

If you have any questions, please call the MEDLARS Management Service Desk at 301/496-6193 or toll-free at 800/638-8480.

Telephone Numbers For Tymnet, Telenet,* Uninet* And Direct Dial Access To The NLM Computer

This list is regularly produced by the Systems Support Branch, Office of Computer and Communications Systems, NLM. MEDLARS Management Section reproduces and distributes it as an enclosure with the NLM Technical Bulletin.

Please note the following features when using this list:

The list is alphabetized by the full spelling of the state; however, the two-letter abbreviations appear on the list. Not all suburban areas are listed; therefore, when looking for a specific city, one should check for cities in the entire calling area as well as the specific exchange.

To locate the speed of the line, read the modem designation at the right of each number and refer to the legend at the beginning of the list. For example, "A" following a telephone number indicates Bell 212A compatible, 300 or 1200 bps (bits per second, or baud).

The networks are offering an increasing number of 2400 bps nodes. As indicated in the legend, these numbers are followed by a dollar sign (\$). A compatible 2400 bps modem is required to use these nodes.

* Please see the Technical Notes in this issue of the NLM Technical Bulletin for information on a proposed TELENET/UNINET network merger.

NLM TECHNICAL BULLETIN • JUN 1986

JUNE 16, 1986

NETWORK ACCESS NUMBERS

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*****
*
* S= BELL 2025 OR 202T: 1200 bps *
* A= Bell 212A: 300/1200 bps *
* V= Vadic 3405:1200 bps *
* BV= Bell 212A/Vadic 3467 *
* $= 2400 bps:must have compatible *
* 2400 bps modem *
* *= NLM Direct Dial Number *
*
*
*****
    
```

UNLESS OTHERWISE NOTED, THE SPEED IS 110-300 BPS

| City | St | Tymnet | Telenet | Uninet |
|----------------|----|------------------|-----------------|------------------|
| Anniston | AL | %205/236-3342 BV | | |
| Bessemer | AL | | | 205/324-5440 BV |
| Birmingham | AL | 205/942-4141 BV | 205/328-2310 BV | 205/324-5440 BV |
| Birmingham | AL | 205/942-7898 \$ | | |
| Florence | AL | 205/767-7131 BV | 205/766-9101 BV | |
| Huntsville | AL | 205/882-3003 BV | 205/539-2281 BV | 205/536-2570 BV |
| Mobile | AL | 205/343-8414 BV | 205/432-1680 BV | 205/432-5590 BV |
| Montgomery | AL | 205/265-4570 BV | 205/269-0090 BV | 205/265-9210 BV |
| Prichard | AL | | | 205/432-5590 BV |
| Sheffield | AL | | 205/767-7960 BV | |
| Tuscaloosa | AL | 205/349-5670 BV | | %205/759-1132 BV |
| Anchorage | AK | 907/338-7222 BV | 907/276-0271 BV | |
| Barrow | AK | 907/852-2425 BV | | |
| Bethel | AK | 907/543-2411 BV | | |
| Cold Bay | AK | 907/532-2371 BV | | |
| Cordova | AK | 907/424-3744 BV | | |
| Dead Horse | AK | 907/659-2777 BV | | |
| Delta Junction | AK | 907/895-5070 BV | | |
| Dillingham | AK | 907/842-2688 BV | | |
| Fairbanks | AK | 907/456-3282 BV | | |
| Ft. Smith | AK | 501/782-3210 BV | | |
| Glennallen | AK | 907/822-5231 BV | | |
| Homer | AK | 907/235-5239 BV | | |
| Iliamna | AK | 907/571-1364 BV | | |
| Juneau | AK | 907/789-7009 BV | 907/586-9700 BV | |
| Kenai | AK | 907/262-1990 BV | | |
| Ketchikan | AK | 907/225-1871 BV | | |
| King Solomon | AK | 907/246-3049 BV | | |
| Kodiak | AK | 907/486-4061 BV | | |
| Kotzebue | AK | 907/442-2602 BV | | |
| Mcgrath | AK | 907/524-3256 BV | | |
| Nome | AK | 907/443-2256 BV | | |
| Northway | AK | 907/778-2301 BV | | |
| Palmer/Wasilla | AK | 907/745-0200 BV | | |
| Prudhoe Bay | AK | 907/659-2777 BV | | |
| Seward | AK | 907/224-3126 BV | | |
| Sitka | AK | 907/747-5887 BV | | |
| Soldotna | AK | 907/262-1990 BV | | |
| St. Paul | AK | 907/546-2320 BV | | |
| Talkeetna | AK | 907/733-2227 BV | | |
| Tanana | AK | 907/366-7167 BV | | |
| Valdez | AK | 907/366-7167 BV | | |
| Wasilla | AK | 907/745-0200 BV | | |
| Whittier | AK | 907/472-2467 BV | | |
| Yakutat | AK | 907/784-3453 BV | | |
| Mesa | AZ | | | 602/253-1940 BV |
| Phoenix | AZ | 602/254-5811 BV | 602/254-0244 BV | 602/253-1940 BV |
| Phoenix | AZ | 602/258-0554 \$ | | |
| Scottsdale | AZ | | | 602/253-1940 BV |
| Tempe | AZ | | | 602/253-1940 BV |
| Tucson | AZ | 602/790-0764 BV | 602/747-0107 BV | 602/747-7868 BV |
| | | 602/747-4856 \$ | | |
| Fayetteville | AR | 501/756-2201 BV | | |
| Fort Smith | AR | 501/782-3210 BV | | 501/782-4185 BV |
| Hot Springs | AR | %501/623-3576 BV | | |
| Jonesboro | AR | 501/935-7957 BV | | |
| Little Rock | AR | 501/666-6886 BV | 501/372-4616 BV | 501/372-5098 BV |
| Pine Bluff | AR | 501/535-8055 BV | | |
| Springdale | AR | 501/756-2201 BV | | |

| City | St | Tymnet | Telenet | Uninet |
|------------------|----|------------------|-----------------|-----------------|
| Alhambra | CA | 818/308-1800 BV | 818/507-0909 BV | 818/956-0906 BV |
| Anaheim | CA | | | 714/955-3293 BV |
| Antioch | CA | 415/778-3420 BV | | |
| Arcadia | CA | 818/308-1800 BV | | 818/956-0906 BV |
| Bakersfield | CA | 805/322-5078 BV | 805/327-8146 BV | 805/324-9643 BV |
| Belmont | CA | | | 415/592-4140 BV |
| Beverly Hills | CA | 818/789-9002 BV | | 213/748-0203 BV |
| Burbank | CA | 818/841-7890 BV | | 818/956-0906 BV |
| Burlingame | CA | 415/952-4757 BV | 415/591-0726 BV | |
| Canoga Park | CA | 818/789-9002 BV | 818/306-2984 BV | 818/715-0018 BV |
| Cathedral City | CA | 619/324-0920 BV | | |
| Chico | CA | 916/343-4401 BV | | |
| China Basin | CA | 415/952-4757 BV | | |
| Colton | CA | | 714/824-9000 BV | 714/785-0653 BV |
| Compton | CA | | 213/516-1007 BV | 213/435-9295 BV |
| Concord | CA | 415/682-3851 BV | 415/676-2834 BV | 415/674-0721 BV |
| Corona | CA | 714/737-5510 BV | | |
| Covina | CA | 714/594-4567 BV | 213/330-2227 BV | 714/623-6088 BV |
| Cupertino | CA | | | 408/293-9767 BV |
| Daly City | CA | | | 415/398-7533 BV |
| Danville | CA | | 415/829-6705 BV | |
| Davis | CA | 916/758-3551 BV | | |
| Diamond Bar | CA | 714/594-4567 BV | | |
| Downey | CA | | | 213/435-9295 BV |
| El Monte | CA | | | 818/956-0906 BV |
| El Segundo | CA | 213/643-2907 BV | | 213/215-3690 BV |
| | | 213/643-4388 \$ | | |
| Es Condido | CA | 619/480-0881 BV | 619/741-7756 BV | 619/743-2713 BV |
| Eureka | CA | 707/445-9671 BV | | |
| Fairfield | CA | 707/447-4160 BV | | 203/254-1160 BV |
| Fremont | CA | 415/490-7366 BV | | 415/424-0430 BV |
| Fresno | CA | 209/442-4328 BV | 209/233-0961 BV | 209/225-1354 BV |
| Fullerton | CA | | | 714/955-3293 BV |
| Garden Grove | CA | | 714/898-9820 BV | |
| Glendale | CA | | 818/507-0909 BV | 818/956-0906 BV |
| Hayward | CA | 415/430-2900 BV | 415/881-1382 BV | 415/581-4582 BV |
| Hollywood | CA | | | 213/748-0203 BV |
| Huntington Beach | CA | | | 714/955-3611 BV |
| Inglewood | CA | | | 213/215-3690 BV |
| Lancaster | CA | 805/948-4602 BV | | |
| Long Beach | CA | 213/435-0900 BV | 213/548-6141 BV | 213/435-9295 BV |
| Los Altos | CA | | | 415/424-0430 BV |
| Los Angeles | CA | 213/629-3001 S | 213/689-9040 | 213/748-0203 BV |
| Los Angeles | CA | 213/623-8500 V | 213/624-2251 BV | 213/748-0142 \$ |
| Los Angeles | CA | 213/587-0030 A | 213/937-3580 BV | |
| Los Angeles | CA | 213/587-7514 \$ | | |
| Manteca | CA | 805/985-7843 BV | | |
| Marina Del Ray | CA | 213/643-2907 BV | 213/306-2984 BV | |
| | | 213/643-4388 \$ | | |
| Mar Vista | CA | 213/643-2907 BV | | 213/748-0203 BV |
| | | 213/643-4388 \$ | | |
| Merced | CA | 209/384-7227 BV | | |
| Mission Hills | CA | 213/365-0853 BV | | |
| Mission Hills | CA | 213/789-9002 BV | | |
| Modesto | CA | 209/571-0408 BV | 209/576-2852 BV | 209/523-6033 BV |
| Monrovia | CA | | | 818/956-0906 BV |
| Monterey | CA | 408/373-4611 BV | 408/375-2675 BV | 408/373-1601 BV |
| Mountain View | CA | 408/980-8100 BV | 415/856-9995 BV | 415/424-0430 BV |
| Napa | CA | 707/257-1990 BV | | |
| Newport - | CA | 714/966-0313 BV | 714/558-6061 | 714/955-3611 BV |
| Beach | CA | 714/852-8141 \$ | 714/558-7078 BV | |
| Northridge | CA | 213/789-9002 BV | | |
| Norwalk | CA | 213/435-0900 BV | 213/404-2237 BV | 213/435-9295 BV |
| Oakland | CA | 415/430-2900 BV | 415/836-4911 BV | 415/652-3566 BV |
| | CA | 415/633-1896 \$ | | |
| Oceanside | CA | | 619/430-0613 BV | 619/722-4137 BV |
| Ontario | CA | 714/594-4567 BV | | 714/623-6088 BV |
| Oxnard | CA | 805/486-4811 BV | 805/656-6760 BV | 805/487-4971 BV |
| Palm Springs | CA | 619/324-0920 BV | | |
| Palo Alto | CA | 415/366-1092 BV | 415/856-9995 BV | 415/424-0430 BV |
| Pasadena | CA | 818/308-1800 BV | 818/507-0909 BV | 818/956-0906 BV |
| Pleasant Hill | CA | 415/682-3851 BV | | 415/674-0721 BV |
| Pleasanton | CA | 415/462-8900 BV | | |
| Pomona | CA | 714/594-4567 BV | | 714/623-6088 BV |
| Poway | CA | 7619/486-3902 BV | | |
| Rancho- | CA | 619/485-1990 BV | | |
| Bernardo | | | | |
| Redding | CA | 916/223-0449 BV | | |
| Redwood City | CA | 415/366-1092 BV | 415/366-1092 BV | 415/592-4140 BV |
| Redwood City | CA | 415/361-8701 \$ | | |
| Richmond | CA | | | 415/652-3566 BV |

| City | St | Tymnet | Telenet | Uninet |
|------------------------|----|-----------------|-----------------------------|-----------------|
| Riverside | CA | 714/370-1200 BV | 714/824-9000 BV | 714/785-0653 BV |
| Sacramento | CA | 916/447-7434 \$ | 916/448-6262 BV | 916/443-0447 BV |
| Salinas | CA | 408/757-0147 BV | 408/443-4940 BV | 408/758-5811 BV |
| San Bernardino | CA | | 714/824-9000 BV | 714/359-5732 BV |
| San Carlos | CA | | 415/591-0726 BV | 415/592-4140 BV |
| San Clemente | CA | 714/498-9504 BV | | |
| San Diego | CA | 619/296-3370 BV | 619/231-1922 | 619/458-1250 BV |
| San Diego | CA | 619/296-8747 \$ | 619/233-0233 BV | |
| San Fernando | CA | 213/365-0853 | | 213/215-3690 BV |
| San Francisco | CA | 415/974-1300 BV | 415/362-6200 | 415/398-7533 BV |
| San Francisco | CA | 415/543-0691 \$ | 415/956-5777 BV | 415/989-2916 \$ |
| San Jose/ Cupertino | CA | 408/980-8100 BV | 408/294-9119 BV | 408/293-9767 BV |
| " " | CA | 408/257-0593 | CCITT-FOR OVERSEAS USE ONLY | |
| San Leandro | CA | | | 415/652-3566 BV |
| San Luis Obispo | CA | 805/544-5753 BV | | |
| San Mateo | CA | | | 415/592-4140 BV |
| San Pedro | CA | 213/435-0900 BV | 213/548-6141 BV | 213/435-9295 BV |
| San Rafael | CA | 415/492-9320 BV | 415/472-5360 BV | 415/398-7533 BV |
| San Ramon | CA | | 415/829-6705 BV | |
| Santa Ana | CA | 714/966-0313 BV | 714/558-6061 | 714/955-3611 BV |
| Santa Ana | CA | | 714/558-7078 BV | |
| Santa Barbara | CA | 805/963-9241 BV | 805/682-5361 BV | 805/687-1154 BV |
| Santa Barbara | CA | 805/963-9251 BV | | |
| Santa Barbara | CA | 805/963-8731 BV | | |
| Santa Cruz | CA | 408/475-0981 BV | 408/429-6937 BV | |
| Santa Clara | CA | 408/986-0646 BV | | 408/293-9767 BV |
| Santa Monica | CA | 213/643-2907 BV | 213/306-2984 BV | 213/215-3690 BV |
| | | 213/643-4388 \$ | | |
| Santa Rosa | CA | 707/527-6180 BV | 707/578-4447 BV | 707/578-1108 BV |
| Sherman Oaks | CA | 213/821-2257 BV | | |
| Stockton | CA | 209/467-0601 BV | 209/957-7610 BV | 209/462-9981 BV |
| Sunnyvale | CA | | | 408/293-9767 BV |
| Thousand Oaks | CA | 805/496-3473 BV | | |
| Torrance | CA | | | 213/215-3690 BV |
| Vallejo | CA | 707/644-1192 BV | | 707/642-1247 BV |
| Van Nuys | CA | 818/789-9002 BV | | 818/712-0899 BV |
| Ventura | CA | 805/486-4811 BV | 805/656-6760 BV | 805/487-4971 BV |
| Vernon | CA | 213/626-2400 BV | | |
| Vernon | CA | 213/489-3430 BV | | |
| Vernon | CA | 213/623-8500 BV | | |
| Visalia | CA | 209/625-5523 BV | | |
| Vista | CA | 619/941-6700 BV | | |
| Walnut Creek | CA | 415/938-9550 BV | | 415/674-0721 BV |
| Waterbury | CA | | | 203/597-0275 BV |
| West Covina | CA | 818/594-4567 BV | | 818/369-8508 BV |
| Woodland Hills | CA | 916/758-3551 BV | 818/887-3160 BV | 213/932-0116 BV |
| Woodside | CA | | | 415/965-2701 BV |
| Arvada | CO | | | 303/363-9097 BV |
| Aurora | CO | | | 303/363-9097 BV |
| Boulder | CO | 303/830-9210 BV | | 303/363-9097 BV |
| Colorado Springs | CO | 303/590-1003 BV | 303/635-5361 BV | 303/363-5104 BV |
| Denver | CO | 303/830-9210 BV | 303/337-6000 | 303/363-9097 BV |
| Denver | CO | 303/832-3447 \$ | 303/337-6060 BV | |
| Fort Collins | CO | 303/221-0687 BV | 303/493-9131 BV | |
| Grand Junction | CO | | | 303/241-2911 BV |
| Greeley | CO | 303/352-0960 BV | | |
| Lakewood | CO | | | 303/363-9097 BV |
| Pueblo | CO | 303/543-9712 BV | 303/542-4053 BV | |
| Bloomfield | CT | 203/242-1986 BV | | 203/247-7723 BV |
| Bridgeport | CT | 203/579-1479 BV | 203/335-5055 BV | 203/254-1160 BV |
| Bristol | CT | 203/589-8200 BV | | |
| Byram | CT | 203/637-5552 BV | | |
| Canaan | CT | 203/824-0775 BV | | |
| Clinton | CT | 203/388-1461 BV | | |
| Danbury | CT | 203/798-8282 BV | 203/794-9075 BV | 203/794-9298 BV |
| Danielson | CT | 203/774-0141 BV | | |
| Darien | CT | 203/965-0000 BV | | |
| Enfield | CT | 203/623-0361 BV | | |
| Fairfield | CT | 203/454-2701 BV | | |
| Greenwich | CT | | | 203/325-4414 BV |
| Hartford | CT | 203/242-7140 BV | 203/247-9479 BV | 203/247-7723 BV |
| Kent | CT | 203/355-3282 BV | | |
| Madison | CT | 203/669-3282 BV | | |
| Meriden | CT | 203/631-3282 BV | | 203/271-1170 BV |
| Middleton | CT | 203/346-4500 BV | | |
| Milford | CT | | | 203/777-8376 BV |
| New Britain | CT | 203/223-3000 BV | | |
| New Haven | CT | 203/777-3282 BV | 203/624-5954 BV | 203/777-8376 BV |
| New London | CT | 203/442-3282 BV | | 203/447-2132 BV |

| City | St | Tymnet | Telenet | Uninet |
|------------------|----|-------------------|-------------------|------------------|
| New Milford | CT | 203/798-8282 BV | | |
| North Haven | CT | | | 203/777-8376 BV |
| Norwalk | CT | %203/454-2701 BV | | 203/866-7510 BV |
| Norwich | CT | | | 203/447-2132 BV |
| Old Saybrook | CT | 203/388-1461 BV | | |
| Seymour | CT | 203/388-1461 BV | | |
| Stafford Springs | CT | 203/429-3282 BV | | |
| Stamford | CT | 203/965-0000 BV | 203/348-0787 BV | 203/325-4414 BV |
| Stamford | CT | 203/327-2974 \$ | | |
| Storrs | CT | 203/456-3282 BV | | |
| Stratford | CT | 203/579-1479 BV | | |
| Torrington | CT | 203/482-3282 BV | | |
| Washington | CT | 203/355-3282 BV | | |
| Waterbury | CT | 203/755-0255 BV | | |
| Waterbury | CT | 203/755-5994 BV | 203/753-4512 BV | 203/597-0275 BV |
| West Hartford | CT | | | 203/247-7723 BV |
| Westport | CT | %203/454-2701 BV | | |
| Willimantic | CT | 203/456-3282 BV | | |
| Windsor | CT | 203/688-8181 BV | | |
| | | 203/623-0361 BV | | |
| Washington | DC | 703/691-8200 BV | 202/429-7896 | 301/731-2051 BV |
| Washington | DC | 703/691-8390 BV | 202/429-7800 BV | 202/459-0280 \$ |
| Washington* | DC | *301/480-3150 A * | *301/480-3150 A * | |
| Washington* | DC | *301/480-3129 V * | *301/480-3129 V * | |
| Dover | DE | 302/678-0449 BV | | |
| Wilmington | DE | 302/652-2060 BV | 302/454-7710 BV | 302/999-8915 BV |
| Boca Raton | FL | 305/272-7900 BV | 305/368-8300 BV | 305/368-1233 BV |
| Braden | FL | | | 813/955-9063 BV |
| Cape Canaveral | FL | | | 305/768-0031 BV |
| Daytona Beach | FL | 904/255-4783 BV | 904/255-2629 BV | 904/257-5768 BV |
| Delray Beach | FL | 305/272-7900 BV | | |
| Clearwater | FL | 813/796-2166 BV | | 813/576-0280 BV |
| Ft Lauderdale | FL | 305/463-0882 BV | 305/764-4505 BV | 305/565-5399 BV |
| | | 305/467-1870 \$ | | |
| Ft Myers | FL | 813/481-8866 BV | 813/337-0308 BV | 813/334-1188 BV |
| Ft Pierce | FL | 305/466-0661 BV | | |
| Holly Hill | FL | | 904/255-2629 BV | |
| Hollywood | FL | %305/599-2900 BV | | 305/565-5399 BV |
| Gainesville | FL | 904/378-4576 BV | 904/338-0220 BV | 904/373-0522 BV |
| Jacksonville | FL | 904/721-8100 BV | 904/353-1818 BV | 904/356-1115 BV |
| | | 904/721-8559 \$ | | |
| Lakeland | FL | 813/688-4366 BV | 813/688-4366 BV | |
| Longwood | FL | 305/841-0217 \$ | | |
| Melbourne | FL | 305/676-1393 BV | | 305/768-0031 BV |
| Merritt Isle | FL | 305/459-0671 BV | | |
| Miami | FL | %305/599-2900 BV | 305/372-0230 BV | 305/591-1254 BV |
| Miami | FL | %305/599-2964 \$ | | |
| Naples | FL | | | 813/649-5400 BV |
| Ocala | FL | 904/351-0305 BV | | |
| Orlando | FL | 305/841-0020 BV | 305/422-4088 BV | 305/894-4815 BV |
| | | 305/841-0217 \$ | | |
| Panama City | FL | 904/769-9446 BV | | |
| Pensacola | FL | 904/477-3344 BV | 904/432-1335 BV | |
| Pompano Beach | FL | 305/272-7900 BV | 305/941-5445 BV | |
| Rivera Beach | FL | | | 305/863-9660 BV |
| St Petersburg | FL | 813/796-2166 BV | 813/323-4026 BV | 813/576-0280 BV |
| St Petersburg | FL | 813/796-2166 BV | | |
| Sarasota | FL | 813/952-9000 BV | 813/923-4563 BV | 813/955-9063 BV |
| Sarasota | FL | 813/365-3526 A | | |
| Tahassee | FL | 904/878-2267 BV | 904/681-1902 BV | 904/681-0486 BV |
| Tampa | FL | 813/933-6210 \$ | 813/224-9920 BV | 813/273-9160 BV |
| Tampa | FL | 813/932-7070 BV | | |
| West Palm Beach | FL | 305/471-9310 BV | 305/833-6691 BV | 305/863-9660 BV |
| Winterhaven | FL | 813/688-5776 BV | | |
| Albany | GA | 912/833-2246 BV | | %912/888-9592 BV |
| Athens | GA | 404/546-0167 BV | 404/549-4524 BV | |
| Atlanta/ | GA | 404/446-0270 BV | 404/577-8911 | 404/321-5935 BV |
| Norcross | GA | 404/446-1508 \$ | 404/523-0834 BV | |
| Augusta/ | GA | 404/722-7967 BV | 404/724-2752 BV | 404/724-1279 BV |
| Martinez | GA | | | |
| Columbus | GA | 404/327-0396 BV | 404/571-0556 BV | 404/576-5709 BV |
| Macon | GA | 912/744-0605 BV | 912/741-1011 BV | |
| Marietta | GA | 404/424-0025 BV | | 404/252-0999 BV |
| Rome | GA | 404/234-0102 BV | | |
| Savannah | GA | 912/232-6751 BV | 912/236-2605 BV | 912/233-9117 BV |
| Honolulu | HI | 808/528-4450 BV | 808/524-8110 | |
| Honolulu | HI | 808/528-5300 \$ | 808/524-8380 A | |
| Boise | ID | 208/343-0404 BV | 208/343-0611 BV | |
| Idaho Fs | ID | 208/523-2964 BV | | |
| Lewiston | ID | | 208/743-0099 BV | |

| City | St | Tymnet | Telenet | Uninet |
|-----------------|----|-----------------|-----------------|-----------------|
| Pocatello | ID | 208/233-2501 BV | | |
| Arlington Hghts | IL | | | 312/663-9600 BV |
| Aurora | IL | 312/859-1143 BV | 312/859-8483 BV | 312/663-9600 BV |
| Belleville | IL | 618/235-9820 BV | | |
| Bloomington | IL | 309/829-0093 BV | 309/827-7000 BV | 309/827-4681 BV |
| Champaign | IL | 217/356-7552 BV | 217/384-6428 BV | 217/356-0827 BV |
| Chicago | IL | 312/922-6571 \$ | 312/938-0500 | 312/663-9600 BV |
| Chicago | IL | 312/922-4601 BV | 312/938-0600 BV | 312/922-3140 \$ |
| Cicero | IL | 312/345-9100 BV | | |
| Danville | IL | 217/431-3133 BV | | |
| Decatur | IL | 217/422-0612 BV | 217/422-0835 BV | 217/428-2445 BV |
| Dekalb | IL | | 815/758-2623 BV | |
| Downers Grove | IL | 312/790-4400 BV | | |
| East St. Louis | IL | | 314/421-4990 BV | 314/423-9120 BV |
| Elgin | IL | | | 312/663-9600 BV |
| Forest Park | IL | 312/345-9100 BV | | |
| Freeport | IL | 815/233-5585 BV | | |
| Glen Ellyn | IL | 312/790-4400 BV | | |
| Joliet | IL | 815/727-1019 BV | 815/726-0070 BV | 815/723-9004 BV |
| Kankakee | IL | 815/932-0850 BV | | |
| Lake Zurich | IL | 312/358-8770 BV | | |
| Libertyville | IL | 312/362-0820 BV | | |
| Maywood | IL | 312/345-9100 BV | | |
| No. Chicago | IL | 312/362-0820 BV | | |
| Normal | IL | | | 309/827-4681 BV |
| Oak Park | IL | | | 312/663-9600 BV |
| Palatine | IL | 312/358-8770 BV | | |
| Peoria | IL | 309/637-5961 BV | 309/637-8570 BV | 309/673-9103 BV |
| Rockford | IL | 815/398-6090 BV | 815/965-0400 BV | 815/965-4240 BV |
| Rock Island | IL | 309/788-3713 BV | | 309/788-0871 BV |
| St. Charles | IL | 312/859-1143 BV | | |
| Skokie | IL | | | 312/663-9600 BV |
| Springfield | IL | 217/753-7905 BV | 217/753-1373 BV | 217/544-0728 BV |
| Urbana | IL | 217/356-7552 BV | 217/384-6428 BV | 217/356-0827 BV |
| Waukegan | IL | | | 312/663-9600 BV |
| Bloomington | IN | | 812/332-1344 BV | |
| Evansville | IN | 812/464-8181 BV | 812/424-7693 BV | 812/424-0045 BV |
| Ft Wayne | IN | 219/422-2581 BV | 219/426-2268 BV | 219/422-2491 BV |
| Gary | IN | | 219/882-8800 BV | 219/882-1661 BV |
| Highland | IN | 219/838-6353 BV | | |
| Indianapolis | IN | 317/257-3461 A | 317/635-9630 | 317/236-9638 BV |
| Indianapolis | IN | 317/632-6408 | 317/634-5708 BV | |
| Kokomo | IN | 317/457-7257 A | 317/455-2460 BV | |
| | | 317/453-7818 BV | | |
| Lafayette | IN | 317/423-4544 BV | 317/742-1165 BV | |
| Marion | IN | 317/662-1928 A | | |
| Merrillville | IN | 219/769-7254 | | |
| Mishawka | IN | | | 219/232-2247 BV |
| Muncie | IN | 317/288-2477 A | 317/289-5068 BV | |
| Osceola | IN | | | 219/232-2247 BV |
| South Bend | IN | 219/234-5005 BV | 219/233-7104 BV | 219/232-2247 BV |
| Terre Haute | IN | 812/232-3605 BV | 812/232-5329 BV | |
| Ames | IA | | | 515/233-3610 BV |
| Cedar Falls | IA | | | 319/232-9252 BV |
| Cedar Rapids | IA | 319/363-7514 BV | 319/364-0911 BV | 319/363-0196 BV |
| Council Bluffs | IA | | | 402/341-2158 BV |
| Davenport | IA | 309/788-3713 BV | 319/324-2445 BV | 309/788-0871 BV |
| Des Moines | IA | 515/277-7752 BV | 515/288-4403 BV | 515/244-5838 BV |
| Dubuque | IA | 319/582-3599 BV | | 319/556-2051 BV |
| Iowa City | IA | 319/354-7371 BV | 319/351-1421 BV | 319/351-0252 BV |
| Marshtown | IA | 515/753-0667 BV | | |
| Rock Island | IA | 309/788-3713 BV | | |
| Sioux City | IA | 712/252-1681 BV | | 712/258-9219 BV |
| Waterloo | IA | 319/233-9227 BV | | 319/232-9252 BV |
| Kansas City | KS | 913/384-0055 BV | | 816/474-1129 BV |
| Lawrence | KS | 913/749-0271 BV | | |
| " | KS | | | 816/221-6722 \$ |
| Leavenworth | KS | 913/651-8094 BV | | |
| Manhattan | KS | 913/776-0121 BV | | |
| Salina | KS | 913/825-4845 BV | | |
| Shawnee Mission | KS | 913/384-1544 BV | | 816/474-1129 BV |
| Topeka | KS | 913/233-1682 BV | 913/233-9880 BV | 913/273-1081 BV |
| Wichita | KS | 316/681-0832 BV | 316/262-5669 BV | 316/264-9505 BV |
| | | 316/681-2719 \$ | | |
| Bowling Green | KY | 502/781-5711 BV | 502/782-7941 BV | |
| Frankfort | KY | | 502/875-4654 BV | |
| Lexington | KY | 606/253-3463 BV | 606/233-0312 BV | 606/252-5414 BV |
| Louisville | KY | 502/499-7110 BV | 502/589-5580 BV | 502/589-583 BV |
| Owensboro | KY | 502/685-1318 BV | | |
| Alexandria | LA | 318/443-9544 BV | | |

| City | St | Tymnet | Telenet | Uninet |
|---------------|----|------------------|------------------|-----------------|
| Baton Rouge | LA | 504/924-5102 BV | 504/343-0753 BV | 504/293-9503 BV |
| Bossier City | LA | | | 318/221-0769 BV |
| Kenner | LA | | | 504/834-7113 BV |
| Lafayette | LA | 318/237-9500 BV | 318/234-1095 BV | 318/232-4743 BV |
| Lake Charles | LA | 318/436-1633 BV | | 318/494-0698 BV |
| Metairie | LA | | | 504/834-7113 BV |
| Monroe | LA | %318/388-8810 BV | 318/387-6330 BV | |
| New Orleans | LA | 504/522-1370 BV | 504/524-4094 BV | 504/834-7113 BV |
| New Orleans | LA | 504/525-2014 BV | | |
| Shreveport | LA | 318/688-5840 BV | 318/221-5833 BV | 318/221-0769 BV |
| Slidell | LA | 504/649-6050 BV | | |
| Auburn | ME | %207/735-3975 BV | | |
| Augusta | ME | | 207/622-3123 BV | 207/623-4065 BV |
| Bangor | ME | 207/947-1196 BV | | 207/947-5261 BV |
| Lewiston | ME | 207/786-0645 BV | | |
| Portland | ME | 207/775-5971 BV | 207/761-4000 BV | 207/879-0025 BV |
| Aberdeen | MD | 301/273-7100 BV | | |
| Annapolis | MD | 301/263-2344 BV | 301/224-8550 BV | |
| Baltimore | MD | 301/528-9296 BV | 301/962-5010 | 301/366-3102 BV |
| Baltimore | MD | | 301/727-6060 BV | |
| Bethesda*/ | MD | 301/770-1680 | 202/429-7896 | 301/731-2051 BV |
| Rockville* | MD | | 202/429-7800 BV | |
| Bethesda*/ | MD | *301/480-3150 a* | *301/480-3150 A* | |
| Rockville* | MD | *301/480-3129 v* | *301/480-3129 V* | |
| Cumberland | MD | 301/777-5306 BV | | |
| Dundalk | MD | | | 301/366-3102 BV |
| Frederick/ | MD | 301/293-3380 BV | | |
| Hagerstown | MD | 301/293-3380 BV | | |
| Landover | MD | | | 301/731-2051 BV |
| Myersville | MD | 301/293-3380 BV | | |
| Silver Spring | MD | | | 301/731-2051 BV |
| Towson | MD | | | 301/366-3102 BV |
| Andover | MA | | | 617/475-4012 BV |
| Arlington | MA | | | 617/890-1808 BV |
| Attleboro | MA | 617/226-6441 BV | | |
| Boston | MA | 617/292-1900 BV | 617/292-0600 | 617/890-1808 BV |
| Boston | MA | 617/357-5052 \$ | 617/292-0662 BV | |
| Brockton | MA | %617/961-4051 BV | | 617/580-2551 BV |
| Brookline | MA | | | 617/890-1808 BV |
| Cambridge | MA | | | 617/890-1808 BV |
| F River | MA | 617/675-1750 BV | | |
| Framingham | MA | | 617/879-6798 BV | |
| Falmouth | MA | | 617/540-7500 BV | |
| Fitchburg | MA | 617/343-8480 BV | | |
| Holyoke | MA | | | 413/733-4141 BV |
| Lawrence | MA | 617/681-8802 BV | | 617/794-9198 BV |
| Lewiston | MA | 207/782-4101 BV | | |
| Lexington | MA | | 617/863-1550 BV | 617/890-1808 BV |
| Lowell | MA | 617/452-0819 BV | | 617/937-0087 BV |
| Lynn/Salem | MA | 617-599-0015 BV | | 617/890-1808 BV |
| Medford | MA | | | 617/890-1808 BV |
| Natick | MA | | | 617/872-0410 BV |
| New Bedford | MA | 617/996-8596 BV | | |
| Newton | MA | | | 617/890-1808 BV |
| Northampton | MA | | | 413/586-4941 BV |
| Pittsfield | MA | 413/499-0971 BV | | |
| Pramingham | MA | 617/620-1264 BV | | |
| Quincy | MA | | | 617/890-1808 BV |
| Randolph | MA | %617/961-4051 BV | | |
| Somerville | MA | | | 617/890-1808 BV |
| Springfield | MA | 413/781-6830 BV | 413/781-3811 BV | 413/733-4141 BV |
| Taunton | MA | 617/824-6692 BV | | 617/580-2551 BV |
| Waltham | MA | | | 617/890-1808 BV |
| " | MA | | | 617/890-5436 \$ |
| Woburn | MA | 617/935-2057 BV | | |
| Worcester | MA | 617/791-9000 BV | 617/755-4740 BV | 617/791-9752 BV |
| Woods Hole | MA | | 617/540-7500 BV | |
| Ann Arbor | MI | 313/662-8282 A | 313/996-5995 BV | 313/761-5402 BV |
| Battle Crk | MI | 616/962-1851 BV | 616/968-0929 BV | 616/965-0919 BV |
| Benton Hrbr/ | | | | |
| St. Joe | MI | 616/925-3134 BV | | |
| Cadillac | MI | %616/775-9242 BV | | |
| Dearborn | MI | | | 313/884-7017 BV |
| Detroit | MI | 313/963-3460 BV | 313/964-5538 | 313/884-7017 BV |
| Detroit | MI | | 313/964-2988 BV | |
| Flint | MI | 313/235-5730 BV | 313/235-8517 BV | 313/767-1102 BV |
| Freeland | MI | 517/695-6751 BV | | |
| Grand Rapids | MI | 616/459-2304 BV | 616/774-0966 BV | 616/774-0270 BV |
| Gross Pointe | MI | | | 313/884-7017 BV |
| Gulfport | MI | 601/868-0109 BV | | |
| Jackson | MI | 517/782-0584 BV | 517/782-8111 BV | 517/782-9335 BV |

| City | St | Tymnet | Telenet | Uninet |
|------------------|----|------------------|-----------------|------------------|
| Kalamazoo | MI | 616/388-2130 BV | 616/345-3008 BV | 616/388-7300 BV |
| Lansing | MI | 517/482-5721 BV | 517/484-0062 BV | 517/484-3116 BV |
| Livonia | MI | | | 313/884-7017 BV |
| Manistee | MI | %616/723-6516 BV | | |
| Marquette | MI | 906/228-3780 BV | | |
| Midland | MI | 517/631-4721 BV | | |
| Muskegon | MI | 616/725-8136 BV | 616/726-5723 BV | 616/739-4316 BV |
| Plymouth | MI | 313/451-2400 BV | | 313/761-5402 BV |
| Pontiac | MI | | | 313/332-2204 BV |
| Port Huron | MI | 313/982-0301 BV | | |
| Royal Oak | MI | | | 313/884-7017 BV |
| Saginaw | MI | 517/753-9921 BV | 517/790-5166 BV | |
| Southfield | MI | 313/424-8024 BV | 313/827-4710 BV | 313/884-7017 BV |
| St. Clair Shores | MI | | | 313/884-7017 BV |
| St. Joseph | MI | 616/925-3134 BV | | |
| Sterling Hgts. | MI | | | 313/884-7017 BV |
| Taylor | MI | | | 313/884-7017 BV |
| Traverse City | MI | 616/947-0050 BV | 616/946-2121 BV | |
| Warren | MI | | 313/575-9152 BV | 313/884-7017 BV |
| Westland | MI | | | 313/884-7017 BV |
| Wyoming | MI | | | 616/774-0270 BV |
| Ypsilanti | MI | | | 313/761-5402 BV |
| Bloomington | MN | | | 612/377-7041 BV |
| Duluth | MN | 218/722-7441 BV | 218/722-1719 BV | |
| Mankato | MN | 507/625-9481 BV | | |
| Minneapolis | MN | 612/333-2799 BV | 612/341-2459 BV | 612/377-7041 BV |
| Minneapolis | MN | 612/332-4024 \$ | | |
| Rochester | MN | 507/289-1900 BV | 507/282-5917 BV | |
| Saint Cloud | MN | 612/252-9093 BV | | 612/253-1298 BV |
| Saint Paul | MN | | | 612/377-7041 BV |
| Jackson | MS | 601/944-0860 BV | 601/969-0036 BV | 601/933-5901 BV |
| Jackson | MS | 601/355-9741 BV | | |
| Meridian | MS | 601/693-8216 BV | | |
| Pascagoula | MS | 601/769-6502 | | |
| Pascagoula | MS | 601/769-6673 A | | |
| Vicksburg | MS | 601/634-6670 BV | | %601/636-3633 BV |
| Pearl | MS | | | 601/932-5901 BV |
| Bridgeton | MO | 314/731-8002 BV | | 314/423-9120 BV |
| Columbia | MO | 314/874-2771 BV | 314/449-7947 BV | 314/449-7231 BV |
| Creve Coeur | MO | | | 314/423-9120 BV |
| Florissant | MO | | | 314/423-9120 BV |
| Independence | MO | | | 816/474-1129 BV |
| Jefferson City | MO | 314/634-8323 A | 314/634-5178 BV | 314/634-4680 BV |
| Joplin | MO | 417/782-3037 BV | | |
| Kansas City | MO | 913/384-1544 BV | 816/221-9900 BV | 816/474-1129 BV |
| Liberty | MO | | | 816/474-1129 BV |
| Rolla | MO | 314/364-3486 BV | | |
| Springfield | MO | 417/831-5044 BV | 417/864-4814 BV | |
| St. Joseph | MO | 816/232-1897 BV | | |
| St. Louis | MO | 314/731-8002 BV | 314/421-4990 BV | 314/423-9120 BV |
| St. Louis | MO | 314/621-4660 A | | |
| Billings | MT | 406/252-4880 BV | 406/245-7649 BV | 406/248-4730 BV |
| Bozeman | MT | 406/587-1930 BV | | |
| Butte | MT | 406/494-6615 BV | | |
| Great Fs | MT | 406/727-0100 BV | | |
| Helena | MT | | 406/443-0000 BV | |
| Missoula | MT | 406/721-5965 BV | 406/721-5900 BV | |
| Grand Island | NE | 308/382-4075 BV | | |
| High Point | NE | 919/884-4364 BV | | |
| Lincoln | NE | 402/474-7481 BV | 402/475-4964 BV | 402/474-7734 BV |
| Omaha | NE | 402/393-0903 BV | 402/341-7733 BV | 402/341-2158 BV |
| | | 402/393-0982 \$ | | |
| Carson City | NV | 702/885-8411 BV | | |
| Las Vegas | NV | 702/293-0300 BV | 702/737-6861 BV | 702/362-2971 BV |
| Reno | NV | 702/885-8411 BV | 702/827-6900 BV | 702/786-7503 BV |
| Concord | NH | | 603/224-1024 BV | 603/224-8324 BV |
| Durham | NH | 603/868-1502 BV | | |
| Hanover | NH | 603/643-4011 BV | | 603/643-6631 BV |
| Manchester | NH | 603/623-0409 BV | 603/627-8725 BV | 603/699-9632 BV |
| Merrimack | NH | | | 603/890-3614 BV |
| Nashua | NH | 603/882-0435 BV | 603/880-6241 BV | 603/880-3614 BV |
| Portsmouth | NH | | 603/431-2302 BV | |
| Salem | NH | 603/893-6200 BV | | |
| Atlantic City | NJ | 609/345-6888 BV | 609/348-0561 BV | 609/345-1001 BV |
| Bayonne | NJ | | | 201/623-7863 BV |
| Bloomfield | NJ | | | %201/429-7200 BV |
| Branchburg | NJ | | | 201/722-2261 BV |
| Camden | NJ | 609/665-5902 \$ | | 609/338-1177 BV |
| Carteret | NJ | | | 201/750-9190 BV |
| Cherry Hill | NJ | 609/665-5600 BV | | 609/338-1177 BV |
| | | 609/665-5902 \$ | | |

| City | St | Tymnet | Telenet | Uninet |
|------------------|----|------------------------------------|-----------------|-----------------|
| Eatontown | NJ | 201/542-2180 BV | | |
| Elizabeth | NJ | | | 201/623-7863 BV |
| Englewood Cliffs | NJ | 201/567-9841 BV 201/567-8951 \$ | | |
| Fords | NJ | | | 201/750-9190 BV |
| Ft. Monmouth | NJ | 201/542-2180 BV | | |
| Hackensack | NJ | | | 201/623-7863 BV |
| Irvington | NJ | | | 201/623-7863 BV |
| Jersey City | NJ | 201/824-1212 BV | 201/623-6818 | 201/623-7863 BV |
| Jersey City | NJ | | 201/623-0469 BV | |
| Lyndhurst | NJ | 201/864-8468 | | |
| Lyndhurst | NJ | 201/460-0180 A | | |
| Marlton | NJ | | 609/596-1500 BV | |
| Moorestown | NJ | 609/665-5600 BV | | |
| Morristown | NJ | 201/539-1222 BV | 201/455-0275 BV | 201/993-8018 BV |
| Newark/ | NJ | 201/824-3044 BV 201/567-8951 \$ | 201/623-6818 | 201/623-7863 BV |
| Union City | NJ | 201/864-8468 A | 201/623-0469 BV | 201/599-2200 BV |
| New Brunswick | NJ | | 201/745-2900 BV | 201/572-5555 BV |
| Oradell | NJ | | | 201/599-2200 BV |
| Paramus | NJ | | | 201/599-2200 BV |
| Parkridge | NJ | 201/742-0752 BV | | |
| Parsippany | NJ | | | 201/993-8018 BV |
| Passaic | NJ | | 201/778-5600 BV | 201/599-2200 BV |
| Patterson | NJ | 201/742-0752 BV | 201/684-7560 BV | 201/599-2200 BV |
| Pennsaukin | NJ | 609/665-5600 BV 609/665-5902 \$ | | 609/338-1177 BV |
| Perth Amboy | NJ | | | 201/750-9190 BV |
| Piscataway | NJ | 201/562-9700 BV 201/562-8550 \$ | | 201/572-5555 BV |
| Princeton | NJ | 609/452-1018 BV | 609/799-5587 BV | 609/683-4550 BV |
| Rahway | NJ | 201/499-4747 BV | | |
| Ridgewood | NJ | 201/742-0752 BV | | |
| River Edge | NJ | | | 201/599-2200 BV |
| Roseland | NJ | | | 201/429-7200 BV |
| Somerville | NJ | | | 201/722-2261 BV |
| Trenton | NJ | 609/989-8480 BV | 609/989-8847 BV | 609/888-0832 BV |
| Union City | NJ | 201/864-8468 BV | | 201/623-7863 BV |
| Vineland | NJ | 609/696-7121 BV | | |
| Wayne | NJ | 201/742-0752 BV | | |
| Woodbridge | NJ | | | 201/750-9190 BV |
| Albuquerque | NM | 505/242-8344 BV | 505/243-4479 BV | 505/843-7981 BV |
| Las Cruces | NM | 505/525-0011 BV | | |
| Santa Fe | NM | 505/988-5953 BV | 505/473-3403 BV | |
| Albany | NY | 518/458-8300 BV | 518/465-8444 BV | 518/449-1772 BV |
| Babylon | NY | | | 516/422-4980 BV |
| Binghamton | NY | 607/772-1153 BV | 607/772-6642 BV | |
| Buffalo | NY | 716/845-6610 BV | 716/847-1440 BV | 716/884-5980 BV |
| Buffalo | NY | 716/852-1077 \$ | | |
| Corning | NY | 607/962-4481 BV | | |
| Deer Park | NY | | 516/667-5566 BV | |
| Elmira | NY | 607/737-9010 A | | |
| Greece | NY | | | 716/454-2510 BV |
| Hempstead | NY | 516/485-7422 BV | 516/292-0320 | |
| Hempstead | NY | | 516/292-3800 BV | |
| Huntington | NY | 516/420-1221 BV | | 516/351-1431 BV |
| Ithaca | NY | 607/257-6601 BV | | 607/272-0211 BV |
| Latham | NY | | | 518/449-1772 BV |
| Melville | NY | 516/420-1221 BV | | |
| Mineola | NY | 516/294-3120 BV | | 516/294-3950 BV |
| Mount Vernon | NY | | | 212/736-3660 BV |
| New Rochelle | NY | | | 914/328-7844 BV |
| New City | NY | 914/638-4167 BV | | |
| New York City | NY | 212/943-4700 BV | 212/620-6000 BV | 212/736-3660 BV |
| New York City | NY | 212/532-0437 | 212/741-8100 BV | 212/594-3881 \$ |
| New York City | NY | 212/689-8850 S | 212/785-3860 BV | |
| New York City | NY | 212/785-5400 BV | | |
| New York City | NY | 212/269-6985 BV | | |
| New York City | NY | 212/509-5400 \$ | | |
| Niagara Fs | NY | 716/285-2561 BV | | 716/285-1582 BV |
| Perinton/ | NY | | | |
| Pittsford | NY | 716/385-5710 \$ | | |
| Plain View | NY | | | 516/933-6200 BV |
| Plattsburgh | NY | | 518/562-1890 BV | |
| Poughkeepsie | NY | 914/473-0401 BV | 914/473-2240 BV | 914/485-5430 BV |
| Rochester | NY | 716/248-8000 BV | 716/454-3430 | 716/454-2510 BV |
| Rochester | NY | 716/385-5710 \$ | 716/454-1020 BV | |
| Ronkonkoma | NY | 516/467-5178 BV | | |
| Schnectady | NY | | | 518/449-1772 BV |
| Syracuse | NY | 315/437-7111 BV | 315/472-5583 BV | 315/471-6114 BV |
| Troy | NY | | | 518/449-1772 BV |

| City | St | Tymnet | Telenet | Uninet |
|-----------------|----|-----------------|-----------------|-----------------|
| Town/Tonawanda | NY | | | 716/884-5980 BV |
| Utica/Rome | NY | 315/735-2991 BV | 315/797-0920 BV | 315/733-2991 BV |
| White Plains | NY | 914/328-7730 BV | 914/328-9199 BV | 914/328-7844 BV |
| Yonkers | NY | | | 914/328-7844 BV |
| Asheville | NC | 704/252-9023 BV | 704/252-9134 BV | 704/258-8480 BV |
| Chapel Hill | NC | | | 919/549-8382 BV |
| Charlotte | NC | 704/374-0803 \$ | 704/332-3131 BV | 704/373-0794 BV |
| Charlotte | NC | 704/377-0521 A | | |
| Davidson | NC | | | 704/373-0794 BV |
| Durham | NC | 919/549-8952 BV | 919/549-8139 BV | 919/549-8382 BV |
| Fayetteville | NC | 919/323-4202 BV | 919/323-8165 BV | |
| Gastonia | NC | 704/866-9095 BV | | |
| Greensboro | NC | 919/273-0332 BV | 919/273-2851 BV | 919/272-6033 BV |
| Greenville | NC | 919/758-7854 BV | | |
| High Point | NC | 919/884-4364 BV | 919/889-2253 BV | 919/884-0068 BV |
| Raleigh | NC | 919/829-0536 BV | 919/549-8139 BV | 919/549-8382 BV |
| Research Tri. | NC | | 919/549-8139 BV | 919/549-8382 BV |
| Rocky Mountain | NC | 919/977-0617 BV | | 919/823-4093 BV |
| Tarboro | NC | | | 919/823-4093 BV |
| Wilmington | NC | 919/762-1865 BV | | |
| Winston/Salem | NC | 919/761-1103 BV | 919/725-2126 BV | 919/748-0965 BV |
| Bismark | ND | 701/255-0869 BV | | 701/222-4844 BV |
| Fargo | ND | 701/280-0210 BV | | |
| Grand Forks | ND | 701/746-0344 BV | | |
| Mandan | ND | | 701/663-6499 BV | |
| Minot | ND | 701/839-4210 BV | | |
| Akron | OH | 216/535-1861 BV | 216/678-5115 BV | 216/434-0032 BV |
| Brook Park | OH | | | 216/771-7880 BV |
| Canton | OH | 216/455-0066 BV | 216/452-0903 BV | 216/453-2329 BV |
| Cincinnati | OH | 513/530-9019 BV | 513/579-0390 BV | 513/621-3433 BV |
| Cincinnati | OH | 513/530-9021 \$ | | |
| Cleveland | OH | 216/241-0024 BV | 216/575-1658 BV | 216/771-7880 BV |
| Columbus | OH | 614/221-1862 BV | 614/463-9340 BV | 614/461-6640 BV |
| Columbus | OH | 614/221-1612 \$ | | |
| Cuyahoga Falls | OH | | | 216/434-0032 BV |
| Dayton | OH | 513/223-3847 BV | 513/461-5254 BV | 513/461-0220 BV |
| Elyria | OH | | 216/323-5059 BV | |
| Euclid | OH | | 216/575-1658 BV | 216/771-7880 BV |
| Hamilton | OH | 513/894-1521 BV | | 513/621-3433 BV |
| Huntington | OH | 304/525-3202 BV | | |
| Kent | OH | | 216/678-5115 BV | 216/434-0032 BV |
| Kettering | OH | | | 513/461-0220 BV |
| Lima | OH | 419/228-6343 BV | | |
| Mansfield | OH | 419/529-3303 BV | 419/526-0686 BV | |
| Marysville | OH | 513/644-3896 A | | |
| Massillon | OH | | | 216/453-2329 BV |
| Parma | OH | | 216/575-1658 BV | 216/771-7880 BV |
| Springfield | OH | 513/325-0511 BV | | 513/324-1462 BV |
| Steubenville | OH | 614/283-2496 BV | | |
| Toledo | OH | 419/255-7790 BV | 419/255-7881 BV | 513/241-3514 BV |
| Warren | OH | 216/394-6529 BV | | |
| Youngstown | OH | 216/759-8892 BV | 216/743-1296 BV | 212/792-0410 BV |
| Ardmore | OK | 405/226-1260 BV | | |
| Bartlesville | OK | | | 918/336-1120 BV |
| Bethany | OK | | | 405/948-8513 BV |
| Britton | OK | | | 405/948-8513 BV |
| Enid | OK | 405/234-5320 BV | | |
| Lawton | OK | 405/353-6987 BV | | |
| Norman | OK | | | 405/948-8513 BV |
| Oklahoma City | OK | 405/947-6387 BV | 405/232-4546 BV | 405/948-8513 BV |
| Stillwater | OK | | 405/624-1112 BV | |
| Tulsa | OK | 918/582-9653 BV | 918/584-3247 BV | 918/747-2431 BV |
| Corvis | OR | | 503/754-9273 BV | |
| Eugene | OR | 503/485-0027 BV | 503/683-1460 BV | 503/683-0653 BV |
| Hood River | OR | | | 503/386-2902 BV |
| Medford | OR | 503/773-1257 BV | 503/779-6343 BV | |
| Portland | OR | 503/222-2151 \$ | 503/295-3028 BV | 503/287-4282 BV |
| Portland | OR | 503/222-0900 BV | | |
| Salem | OR | 503/585-0182 BV | 503/378-7712 BV | 503/362-8194 BV |
| Springfield | OR | 503/746-0027 BV | | |
| Allentown | PA | 215/865-6978 BV | 215/435-3330 BV | 215/437-4654 BV |
| Altoona | PA | 814/943-5848 BV | | |
| Bethlehem | PA | 215/865-6978 BV | | 215/437-4654 BV |
| Butler | PA | 412/285-9527 BV | | |
| Coatesville | PA | 215/838-0440 BV | | |
| Carlisle | PA | | | 717/243-4919 BV |
| Danville | PA | | | 717/275-1001 BV |
| Dowington | PA | 215/838-0300 BV | | |
| Easton | PA | | | 215/437-4654 BV |
| Erie | PA | 814/456-8501 BV | 814/899-2241 BV | |
| Fort Washington | PA | | | |

| City | St | Tymnet | Telenet | Uninet |
|------------------------|----|------------------|-----------------|-----------------|
| Greensburg | PA | 412/836-4470 BV | | |
| Harrisburg | PA | 717/763-6481 BV | 717/236-6882 BV | 717/657-4954 BV |
| Hershey | PA | | | 717/657-4954 BV |
| Johnstown | PA | | 814/535-7576 BV | |
| King of Prussia | PA | 215/337-9900 BV | 215/337-4300 BV | 215/561-0454 BV |
| Lancaster | PA | 717/397-7731 BV | 717/393-2154 BV | 717/299-6603 BV |
| Latrobe | PA | 412/836-4470 BV | | |
| Levittown | PA | 215/943-3700 BV | | 215/561-0454 BV |
| Monroeville | PA | | | |
| Mt. Penn | PA | 215/779-9580 BV | | |
| New Castle | PA | 412/654-1530 BV | | |
| Penn Hills | PA | | | 412/931-9360 BV |
| Philadelphia | PA | 215/751-0700 BV | 215/574-0620 | 215/561-0454 BV |
| Philadelphia | PA | 215/567-4390 BV | 215/574-9462 BV | |
| Pittsburgh | PA | 412/765-1320 BV | 412/288-9950 | 412/931-9360 BV |
| Pittsburgh | PA | | 412/288-9974 BV | |
| Reading | PA | 215/779-9580 BV | 215/372-7116 BV | 215/375-6186 BV |
| Scranton | PA | 717/346-4516 BV | 717/961-5321 BV | 717/343-0734 BV |
| State College | PA | 814/234-3853 BV | 814/231-1510 BV | |
| Upper Darby | PA | | | 215/561-0454 BV |
| Veg Forge | PA | 215/666-9190 BV | | 215/561-0454 BV |
| Wilkes Barre | PA | 717/826-8991 BV | | 717/823-3519 BV |
| Williamport | PA | | 717/494-1796 BV | |
| York | PA | 717/846-3900 BV | 717/846-6550 BV | 717/843-0965 BV |
| Newport | RI | 401/847-0502 BV | | |
| Pawtucket | RI | | | 401/273-7900 BV |
| Providence/ Warwick | RI | 401/273-0200 BV | 401/751-7912 BV | 401/273-7900 BV |
| Warwick | RI | | | 401/273-7900 BV |
| Woonsocket | RI | 401/765-2400 BV | | |
| Charleston | SC | 803/577-0452 BV | 803/722-4303 BV | 803/722-8311 BV |
| Columbia | SC | 803/254-7563 BV | 803/254-0695 BV | 803/256-5248 BV |
| Greenville | SC | 803/271-9213 BV | 803/233-3486 BV | 803/235-1654 BV |
| Spartanburg | SC | 803/582-0016 BV | 803/585-1637 BV | |
| Pierre | SD | | 605/224-6341 BV | |
| Rapid City | SD | 605/341-5337 BV | | 605/348-5099 BV |
| Scranton | SD | 605/335-0780 BV | | |
| Sioux Falls | SD | 605/335-0780 BV | 605/336-8593 BV | 605/338-6061 BV |
| Bristol | TN | | 615/968-1130 BV | 615/968-5360 BV |
| Chattanooga | TN | 615/265-1020 BV | 615/756-1161 BV | 615/267-2248 BV |
| Jackson | TN | 7901/423-1244 BV | | |
| Johnson City | TN | 615/928-1191 BV | | |
| Knoxville | TN | 615/690-1543 BV | 615/523-5500 BV | 615/523-5611 BV |
| Memphis | TN | 901/527-8006 BV | 901/521-0215 BV | 901/767-9431 BV |
| Nashville | TN | 615/885-3530 BV | 615/244-3702 BV | 615/256-6469 BV |
| Oakridge | TN | 615/483-0183 BV | | 615/481-3668 BV |
| Abilene | TX | 915/672-1363 BV | 915/676-9151 BV | 915/673-4020 BV |
| Amarillo | TX | 806/371-0031 BV | 806/373-0458 BV | 806/379-9211 BV |
| Arlington | TX | | | 214/263-1480 BV |
| Athens | TX | | | 214/677-2798 BV |
| Austin | TX | 512/444-3280 BV | 512/928-1130 BV | 512/473-2617 BV |
| Baytown | TX | 713/442-9746 BV | | |
| Beaumont | TX | | | 409/839-4731 BV |
| Brownsville | TX | 512/541-2251 BV | | 512/546-9665 BV |
| Bryan/ | TX | 409/823-1090 BV | 409/779-0173 BV | |
| College Station | TX | 409/823-1090 BV | | 409/882-0143 BV |
| Corpus Christie | TX | 512/883-8050 BV | 512/884-9030 BV | 512/241-5691 BV |
| Dallas | TX | 214/638-8888 BV | 214/748-0127 | 214/579-1288 BV |
| Dallas | TX | 214/630-5516 \$ | 214/748-6371 BV | |
| Denton | TX | 817/565-0552 BV | | |
| El Paso | TX | 915/533-1453 BV | 915/532-7907 BV | 915/533-7525 BV |
| Ft Worth | TX | 817/877-3630 BV | 817/332-4307 BV | 214/263-1480 BV |
| Galveston | TX | 409/765-7338 BV | 409/762-3308 BV | |
| Garland | TX | | | 214/438-1256 BV |
| Grand Prairie | TX | | | 214/263-1480 BV |
| Houston | TX | 713/556-6700 BV | 713/227-1018 BV | 713/552-9659 \$ |
| Houston | TX | 713/496-1332 \$ | | |
| Irving | TX | | | 214/438-1256 BV |
| Killeen | TX | 817/634-3439 BV | | |
| Lackland | TX | | | 512/647-0031 BV |
| Laredo | TX | 512/727-4626 BV | 512/724-1791 BV | 512/726-3017 BV |
| Leavenworth | TX | 913/682-2660 BV | | |
| Longview | TX | 214/23602401 BV | 214/236-4205 BV | |
| Lubbock | TX | 806/797-0765 BV | 806/747-4121 BV | 806/747-0344 BV |
| Mc Allen | TX | 512/631-0020 BV | | 512/682-0881 BV |
| Midland | TX | 915/683-5645 BV | 915/561-9811 BV | 517/832-5148 BV |
| Nederland | TX | 409/724-0726 BV | 409/722-3720 BV | |
| Odessa | TX | 915/563-3745 BV | 915/561-9811 BV | 214/597-8113 BV |
| Port Arthur | TX | 409/724-0726 BV | | 409/839-4731 BV |
| San Angelo | TX | | 915/944-7621 BV | 915/655-5033 BV |
| San Antonio | TX | 512/222-8002 BV | 512/225-8004 BV | 512/647-0031 BV |
| Terminal | TX | | 915/563-0086 BV | 915/563-1292 BV |

| City | St | Tymnet | Telenet | Uninet |
|-----------------|----|-----------------|-----------------|-----------------|
| Temple | TX | | 817/773-9423 BV | |
| Texas City | TX | 409/765-7338 BV | | |
| Tyler | TX | 214/597-9321 BV | | 214/597-8113 BV |
| Waco | TX | 817/752-1642 BV | 817/752-9743 BV | 817/756-6500 BV |
| Wichita Falls | TX | 817/761-1315 BV | | |
| Ogden | UT | 801/627-3453 BV | 801/627-1630 BV | |
| Orem/Provo | UT | 801/375-0645 BV | 801/373-0542 BV | |
| Salt Lake City | UT | 801/533-8152 BV | 801/359-0149 BV | 801/364-8985 BV |
| Burlington | VT | 802/864-5714 BV | 802/864-0808 BV | |
| Montpelier | VT | 802/223-3041 BV | 802/229-4966 BV | |
| Rutland | VT | | | 802/775-0722 BV |
| Alexandria | VA | | 202/429-7896 | 301/731-2051 BV |
| Alexandria | VA | | 202/429-7800 BV | |
| Annandale | VA | | 202/429-7896 | 703/476-1810 BV |
| Annandale | VA | | 202/429-7800 BV | |
| Arlington | VA | | | 703/476-1810 BV |
| Blacksburg | VA | | | 703/552-8236 BV |
| Charlottesville | VA | 804/293-4915 BV | 804/971-4082 BV | 804/979-4433 BV |
| Chesapeake | VA | | | 804/627-1295 BV |
| Covington | VA | | | 703/962-2126 BV |
| Fairfax | VA | 703/352-3136 \$ | 202/429-7896 | 703/476-1810 BV |
| Fairfax | VA | 703/691-8390 BV | 202/429-7800 BV | |
| Fairfax | VA | 703/352-3136 \$ | | |
| Falls Church | VA | | | 301/731-2051 BV |
| Harrisonburg | VA | | 703/434-7121 BV | |
| Hampton | VA | | | 804/244-5700 BV |
| Herndon | VA | | 703/435-1800 BV | |
| Lynchburg | VA | 804/846-0213 BV | | 804/846-0943 BV |
| McLean | VA | | | 202/347-3337 BV |
| Midlothian | VA | 804/744-4860 BV | | |
| | | 804/744-5039 \$ | | |
| Newport News | VA | 804/596-7608 BV | 804/596-6600 BV | 804/244-5700 BV |
| Norfolk | VA | 804/855-7751 BV | 804/625-1186 BV | 804/627-1295 BV |
| Petersburg | VA | 804/862-4700 BV | | |
| Portsmouth | VA | | | 804/627-1295 BV |
| Reston | VA | | | 703/476-1810 BV |
| Richmond | VA | 804/744-4860 BV | 804/788-9902 BV | 804/353-3813 BV |
| | | 804/744-5039 \$ | | |
| Roanoke | VA | 703/344-2762 BV | 703/342-1513 BV | 703/345-3246 BV |
| Springfield | VA | | | 301/731-2051 BV |
| Vienna | VA | | | 703/476-1810 BV |
| Virginia Beach | VA | | | 804/627-1295 BV |
| Williamsburg | VA | 804/872-9592 BV | | |
| Auburn | WA | | 206/939-9982 BV | |
| Bellevue | WA | | | 206/621-0227 BV |
| Bellingham | WA | 206/647-0666 BV | 206/733-2720 BV | 206/733-8800 BV |
| Enumclaw | WA | 206/825-7720 BV | | |
| Everett | WA | 206/353-5737 BV | | 206/339-2655 BV |
| Longview | WA | | 206/577-5835 BV | |
| Olympia | WA | 206/438-2772 BV | 206/754-0460 BV | 206/754-5169 BV |
| Richland | WA | 509/375-3367 BV | 509/375-5377 BV | 206/946-5354 |
| Seattle | WA | 206/285-0109 BV | 206/447-9012 | 206/621-0227 BV |
| Seattle | WA | 206/281-7141 \$ | 206/625-9612 BV | |
| Spokane | WA | 509/624-1549 BV | 509/455-4071 BV | 509/838-2342 BV |
| Tacoma | WA | 206/272-1503 BV | 206/627-1791 BV | 206/627-8778 BV |
| Vancouver | WA | 206/696-9305 BV | | |
| Wenatchee | WA | | 509/663-6227 BV | |
| Yakima | WA | 509/248-1462 BV | | |
| Charleston | WV | 304/345-9575 BV | 304/345-6471 BV | 304/344-1650 BV |
| Huntington | WV | 304/525-4406 BV | 304/523-2802 BV | 304/529-0304 BV |
| Morgantown | WV | 304/292-0682 BV | | |
| Parkersburg | WV | 304/428-8511 BV | | |
| Westover | WV | 304/233-7950 BV | 304/292-0682 BV | |
| Wheeling | WV | 304/233-7950 BV | | |
| Appleton | WI | 414/722-5580 BV | | 414/739-7830 BV |
| Beloit | WI | 608/632-4655 BV | | |
| Brookfield | WI | 414/785-1614 BV | | 414/549-3970 BV |
| Brookfield | WI | 414/785-0630 \$ | | |
| Eau Claire | WI | 715/832-1354 BV | 715/836-9295 BV | |
| Green Bay | WI | 414/432-3064 BV | 414/432-2815 BV | 414/535-0671 BV |
| Janesville | WI | 608/632-4655 BV | | |
| Kenosha | WI | | | 414/551-0401 BV |
| La Crosse | WI | 608/785-1450 A | | |
| | | 608/784-9099 BV | | |
| Madison | WI | 608/221-4211 | 608/257-5010 BV | 608/258-8408 BV |
| Madison | WI | 608/221-0091 A | | |
| Milwaukee | WI | 414/785-1614 BV | 414/271-3914 BV | 414/548-6920 BV |
| Neenah | WI | 414/722-5580 BV | | |
| Oshkosh | WI | 414/235-7473 BV | | |
| Racine | WI | 414/632-3006 BV | 414/552-7217 BV | 414/632-7395 BV |
| Sheboygan | WI | 414/452-2622 BV | 414/452-3995 BV | 414/459-7455 BV |

| <u>City</u> | <u>St</u> | <u>Tymnet</u> | <u>Telenet</u> | <u>Uninet</u> |
|-------------|-----------|-----------------|-----------------|-----------------|
| Sun Prairie | WI | | | 608/258-8408 BV |
| Superior | WI | | | 218/722-4639 BV |
| Wausau | WI | 715/355-1262 BV | | |
| West Allis | WI | | | 414/548-6920 BV |
| West Bend | WI | 414/334-1755 BV | | |
| Casper | WY | 307/234-4211 BV | 307/265-5167 BV | |
| Cheyenne | WY | 307/632-7464 BV | 307/638-4421 BV | |
| Laramie | WY | | | 307/721-4145 BV |

GRATEFUL MED Users:
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No. 207

THE NLM Technical Bulletin

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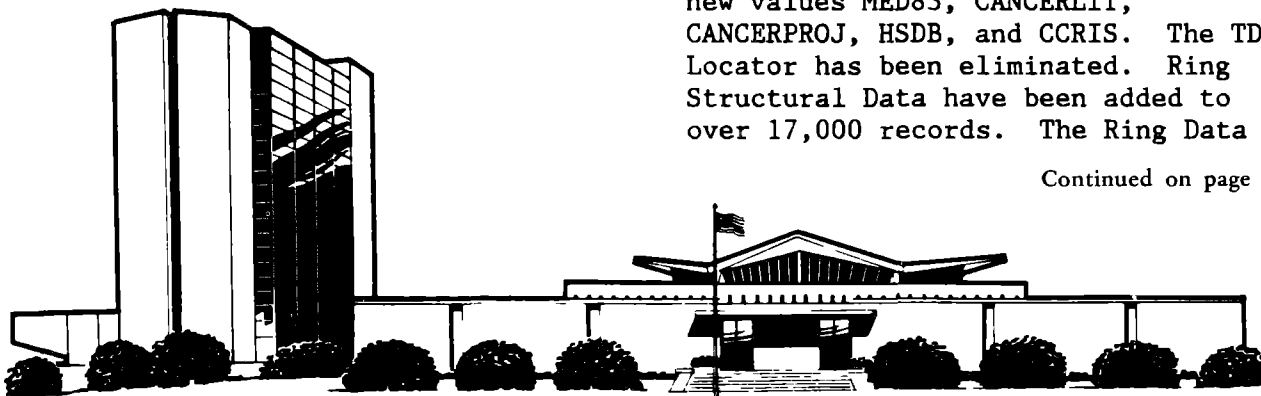
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Regenerated CHEMLINE Includes Drug Classification Data

George F. Hazard, Jr., Ph.D.
Specialized Information Services, NLM

In June 1986, a regenerated CHEMLINE® file was made available with several changes and enhancements that should be useful to searchers. In particular, a new field, the Classification Code (CC) field, has been added. It contains Pharmacologic and/or Therapeutic Category data from the publication USAN and the USP Dictionary of Drug Names (USPDDN) for over 2,700 drugs. In addition, names from a variety of sources have been added to the Synonym (SY) field, including names from the Chemical Abstracts Service (CAS) Index Guide, the 1986 MESH® file, the RTECS and HSDB files, and drug names from the 1986 edition of USPDDN. All CAS Registry Numbers (RN) and names from CAS have also been updated. The Locator (LO) field now includes the new values MED83, CANCERLIT, CANCERPROJ, HSDB, and CCRIS. The TDB Locator has been eliminated. Ring Structural Data have been added to over 17,000 records. The Ring Data

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NLM TECHNICAL BULLETIN • JUL 86

| DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|-----------------|---------------|-------------------------------|-------------------|-------------------|
| (ELHILL SYSTEM) | | | | |
| AVLINE | 15,040 | THROUGH 1986 | 24 JUL 86 | |
| BIOETHICS | 20,552 | JAN 73-1986 | 13 JUN 86 | 8606(EM) |
| CANCERLIT | 531,696 | JAN 63-JUL 86 | 05 JUL 86 | 8607(EM) |
| CANCERPROJ | 10,183 | THROUGH 1986 | 05 JUL 86 | 8607(EM) |
| CATLINE | 605,995 | THROUGH 1986 | 24 JUL 86 | |
| CHEMLINE | 684,125 | | 19 JUN 86 | 8606(EM) |
| CLINPROT | 5,529 | | 21 JUN 86 | 8606(EM) |
| DIRLINE | 15,413 | | 28 JUN 86 | |
| HEALTH | 350,598 | JAN 75-AUG 86 | 12 JUL 86 | 8608(EM) |
| HISTLINE | 73,333 | | 01 JUL 86 | 8607(EM) |
| MEDLINE | 665,966 | JAN 84-AUG 86 | 08 JUL 86 | 8608(EM) |
| MED83 | 286,615 | JAN 83-DEC 83 | 22 MAR 86 | |
| MED80 | 804,746 | JAN 80-DEC 82 | 26 JUL 86 | |
| MED77 | 775,066 | JAN 77-DEC 79 | 08 FEB 86 | |
| MED75 | 642,612 | JAN 75-DEC 76 | 19 MAY 86 | |
| MED71 | 883,077 | JAN 71-DEC 74 | 07 JUN 86 | |
| MED66 | 954,368 | JAN 66-DEC 70 | 12 JUL 86 | |
| MESH VOC | 57,943 | 1986 | 26 JUL 86 | |
| NAME AUTH | 274,435 | | 12 JUL 86 | |
| POPLINE | 148,721 | 1970-JUL 86 | 12 JUL 86 | 8607(EM) |
| RTECS | 81,596 | THROUGH APR 86 | 20 JUN 86 | |
| SDILINE | 27,571 | AUG 86 | 05 JUL 86 | 8608(EM) |
| SERLINE | 67,065 | 1986 | 19 JUL 86 | |
| TOXLINE | 814,274 | | 21 JUL 86 | 8607(EM) |
| CBAC | 445,640 | 1981-VOL 104(12,13) | | |
| TOXBIB | 167,046 | 1981-AUG 1986 | | |
| IPA (ASHP) | 37,557 | 1981-VOL 23(13,14) | | |
| BIOSIS | 37,203 | JUN 1986 | | |
| HEEP | 49,788 | 1981-VOL 14(8) | | |
| PESTAB | 1,536 | 1981 | | |
| EMIC | 12,899 | 1981-MAR 1986 | | |
| ETIC | 12,616 | 1981-APR 1986 | | |
| TD3 | 23,935 | 1981-GRA&I 86(8,9) | | |
| HMTc | 1,869 | 1981-APR 1986 | | |
| ILO | 4,915 | JUL 1986 | | |
| RPROJ/CRISP | 16,086 | FISCAL YEARS 1983, 1984, 1985 | | |
| ANEUPLOIDY | 3,593 | 1969-JUN 1986 | | |
| TOXBACK76 | 555,808 | | 27 AUG 84 | |
| CBAC | 298,383 | 1976-1980 | | |
| TOXBIB | 106,643 | 1976-1980 | | |
| IPA (ASHP) | 33,321 | 1976-1980 | | |
| HEEP | 63,796 | 1976-1980 | | |
| PESTAB | 14,757 | 1976-1980 | | |
| EMIC | 17,267 | 1976-1980 | | |
| ETIC | 11,970 | 1976-1980 | | |
| TD3 | 9,671 | 1976-1980 | | |
| TOXBACK65 | 598,424 | | 27 AUG 84 | |
| CBAC | 287,992 | 1965-1975 | | |
| TOXBIB | 155,387 | 1965-1975 | | |
| IPA (ASHP) | 33,876 | 1969-1975 | | |
| HEEP | 54,075 | 1970-1975 | | |
| HAPAB/PESTAB | 18,416 | 1968-1975 | | |
| EMIC | 19,554 | 1950-1975 | | |
| ETIC | 13,694 | 1950-1975 | | |
| TD3 | 839 | PRE-1965-1975 | | |
| HAYES | 10,039 | 1940-1968 | | |
| TMIC | 4,552 | 1940-1975 | | |
| (TOXNET SYSTEM) | | | | |
| CCRIS | 1,136 | | 01 JUL 86 | |
| HSDB | 4,142 | | 24 JUL 86 | |
| TDB | 4,139 | | 01 OCT 85 | |

Editor: Carolyn B. Tilley
 Assistant Editor: T. Scott Plutchak
 Technical Notes Editor: Patricia E. Healy
 Grateful Med Page Editor: Kathleen Stenger
 (301) 496-6193

Direct Inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 Bldg. 38A, Rm. 4N421
 Bethesda, Maryland 20894

Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual, 1982 and Supplement, 1984 that is considered most relevant to the item being discussed, e.g., (Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

LABOR DAY HOLIDAY SCHEDULE

The NLM computer will be up on a non-guaranteed basis on Monday, September 1, 1986, Labor Day. Non-guaranteed hours will be in effect from 5:00 pm Eastern Time (ET) on Saturday, August 30, 1986 to 11:15 pm ET on Monday, September 1. If the computer fails at anytime after 5:00 pm ET August 30, it is unlikely that it will be restarted until after 11:15 pm ET September 1. The computer room will not be staffed September 1. Non-prime rates will be in effect all day. The MEDLARS[®] Management Service Desk will not be staffed. □

RTECS UPDATE (Manual 14.4.18)

The RTECS database was updated on June 20, 1986 and contains records for NIOSH data through April 1986. Records which were previously too long

for ELHILL have been successfully shortened and now appear in the file. The NC (NIOSH Criteria Document) field now cites NIOSH recommended exposure limits as developed for criteria documents and other NIOSH publications, and reference the Morbidity and Mortality Weekly Report. The full field name will be changed shortly to "NIOSH Recommendations." □

CLINPROT INDEX TERM LISTING

The CLINPROT Index Term listing for June 1986 is now available. It may be requested by writing to the MEDLARS Management Section. Please include a self-addressed label with your request. No return postage is necessary. □

DIRLINE SELF-INSTRUCTIONAL GUIDE AND FACT SHEET

Copies of the revised DIRLINE Self-Instructional Guide and the new DIRLINE fact sheet are now available and may be requested by writing to either the MEDLARS Management Section or Specialized Information Services at NLM. Please include a self-addressed label with your request. No return postage is necessary. □

Please access FILE INFORM and type NEWS to see the most recent news item online!

**SPECIAL NOTICE:
VADIC MODEM USERS**

In early June, 1986, NLM was notified by GTE TELENET® that they plan to consolidate all asynchronous public dial services with a single access telephone number in each city. They think that this will provide greater convenience to users and simplify access procedures. This change is expected January 1, 1987. TYMNET® has advised NLM that they plan to make similar changes.

The new rotaries on a single access telephone number will be based on a new "triple modem" that can handle automatic speed detection for 300, 1200 and 2400 baud access. However, this upgrade will require the elimination of support for the Vadic 3405 (3400 series) modem protocol (marked either 'V' or 'BV' in the Telephone Numbers for Access to the NLM Computer list last issued with the June NLM Technical Bulletin).

This means that when new numbers are added in cities previously without service or when TELENET and TYMNET switch to the new triple modems in January 1987, some Vadic modems will no longer be supported and will not work for access with TELENET or TYMNET. (Remember that UNINET will be changing to the TELENET protocol in the near future. For details on this change see the June Technical Bulletin.)

Most MEDLARS searchers use modems which are Bell 103- (300 baud) or Bell 212A- (1200 baud) compatible. All Bell-compatible modems will continue to be supported with this planned change. However, some MEDLARS users may have Racal-Vadic 3400 series modems. TELENET has asked NLM to respond as soon as possible with information on users needing Vadic 3400 modem support.

NLM requests that any user with a Vadic or Vadic-compatible modem supply MMS with the following information, either in writing or via the MEDLARS system COMMENT command, as soon as possible:

- 1) User ID code or codes (do not include passwords).
- 2) The make and model of the Vadic (or Vadic-compatible) modem.
- 3) User's name and telephone number.
- 4) The TELENET or TYMNET numbers currently dialed, and city and state of origin.
- 5) How many hours per month MEDLARS is generally used with the code.

It is possible that some support for the Vadic 3405 protocol will continue to be provided by TELENET and TYMNET after January 1987. In order to assist TELENET and TYMNET in making this decision we need information concerning the use of Vadic modems as soon as possible.

CHEMLINE Regeneration
Continued from page 1

new unit record.

fields are now complete for all records added to CHEMLINE through the end of 1983.

Synonym (SY) Field

Figure 1 uses the drug Sulfamethoxazole as an example of the

This field contains various chemical, trade, proprietary, and company names from several sources. The name

| Sample Record | |
|---------------|--|
| RN | - 723-46-6 |
| MF | - C10-H11-N3-O3-S |
| N1 | - Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)- (9CI) |
| SY | - BENZENESULFONAMIDE, 4-AMINO-N-(5-METHYL-3-ISOXAZOLYL)- [HSDB:RTECS] |
| SY | - Gantanol [HSDB:RTECS:USPDDN] |
| SY | - HSDB 3186 [NLM] |
| SY | - MS 53 [HSDB:RTECS] |
| SY | - N(1)-(5-METHYL-3-ISOXAZOLYL)SULFANILAMIDE [HSDB] |
| SY | - Radonil [HSDB:RTECS] |
| SY | - Ro 4-2130 [HSDB:RTECS:USPDDN] |
| SY | - Sinomin [CAS:HSDB:RTECS] |
| SY | - Sulfamethalazole [HSDB:RTECS] |
| SY | - Sulfamethoxazol [HSDB:RTECS] |
| SY | - Sulfamethoxazole [CAS:HSDB*:MESH*:RTECS:USPDDN*] |
| SY | - Sulfamethylisoxazole [HSDB:MESH:RTECS] |
| SY | - Sulfanilamide, N(1)-(5-methyl-3-isoxazolyl)- (8CI) [CAS:HSDB] |
| SY | - Sulfisomezole [CAS:HSDB:MESH:RTECS] |
| SY | - Sulphamethoxazole [HSDB:MESH:RTECS:USPDDN] |
| SY | - 3-SULFANILAMIDO-5-METHYLISOKAZOLE [HSDB:RTECS] |
| SY | - 5-METHYL-3-SULFANILAMIDOISOKAZOLE [HSDB:RTECS] |
| SY | - [component of] Azo Gantanol [USPDDN] |
| SY | - [component of] Bactrim [USPDDN] |
| SY | - [component of] Cotrim [USPDDN] |
| SY | - [component of] Septra [USPDDN] |
| CC | - Antibacterial [USPDDN] |
| NR | - 1 |
| NR | - 1 |
| RS | - 5 |
| RS | - 6 |
| RE | - C3NO |
| RE | - C6 |
| CL | - NOC3 |
| LO | - TOXLINE |
| LO | - TOXBACK76 |
| LO | - TOXBACK65 |
| LO | - RTECS |
| LO | - MEDLINE |
| LO | - MED83 |
| LO | - MED80 |
| LO | - MED77 |
| LO | - CANCERLIT |
| LO | - CANCERPROJ |
| LO | - HSDB |
| LO | - CCRIS |
| LO | - TSCAINV |
| EM | - 8606 |

Figure 1

sources and their acronyms are:

| <u>Acronym</u> | <u>Source Name</u> |
|----------------|--|
| CAS | CAS Index Guide |
| HSDB | Hazardous Substances Data Bank, TOXNET system |
| MESH | Medical Subject Headings File |
| NLM | National Library of Medicine, Specialized Information Services |
| RTECS | Registry of Toxic Effects of Chemical Substances |
| USPDDN | USAN and the USP Dictionary of Drug Names |

All names were taken from the machine-readable versions of the sources available by May, 1986. Names taken from the CAS Index Guide, together with older systematic nomenclature from CAS, were used as a baseline to create the Synonym Field, and selected names taken from the other sources shown were merged in by RN to finish this process. Names were added to over 58,000 records in this final augmentation step. In this regeneration, names were taken from the HSDB file instead of TDB, since the chemical names used in these files almost totally overlap. The following name from the sample record:

SY - Sulfamethoxazole [CAS:HSDB*:
MESH*:RTECS:USPDDN*]

shows that the name Sulfamethoxazole was taken from the sources shown in the brackets. The asterisk (*) suffix on the HSDB, MESH, and USPDDN name sources shows that Sulfamethoxazole was chosen from the NAME field in HSDB, is a MeSH Heading in the MESH file, and is a United States Adopted Name (USAN) according to USAN and the USP Dictionary of Drug Names.

Where CAS Registry Numbers matched, the HSDB Number from the HSDB file on TOXNET was added as a synonym to CHEMLINE with the name source "NLM". The CHEMLINE record for a given HSDB

substance may be accessed by this number, in this case by typing "HSDB 3186". In the TOXNET system, this number is one of the identifiers which could be used to retrieve a given record in HSDB. The number would either be qualified, as in "3186 (HSN)," or it could be typed into HSDB directly as "3186". The number should not be input in TOXNET as "HSDB 3186", since the data are not stored in this format.

Other names, tagged with the name source "NLM", were added to the file from a year-long monitoring of new names appearing in the literature. These were basically non-systematic names for new substances or new names for old substances of high interest. They were added to the file if not already available from other sources.

The "[component of]" names have been updated in CHEMLINE from USPDDN data. These are names of mixtures which contain the chemical substance shown in the CHEMLINE record. They are not names for the pure substance. Thus:

SY - [component of] Bactrim [USPDDN]

shows that Sulfamethoxazole is a component of the preparation Bactrim. The term Bactrim should not be used in later TOXLINE® searches for citations concerning Sulfamethoxazole, since the biological activity of Bactrim, which is a mixture of Trimethoprim and Sulfamethoxazole, might be quite different from the activity of each individual component. Typing "Bactrim" into CHEMLINE retrieves 3 records, one for each of the two components of Bactrim, and one for the mixture itself.

Classification Code (CC) Field

The CC field was created to indicate the general category of usage of substances. The first data to be added to this field are Pharmacologic/

Therapeutic Category data from USAN and the USP Dictionary of Drug Names. These data are available for 2,707 drugs of the 5,837 with USPDDN name data, primarily records with USAN names, labelled "USPDDN*".

Data in the CC field are formatted and indexed in a manner similar to data appearing in the Synonym Field. USPDDN data have been translated to CHEMLINE conventions, with qualifying data in square brackets, and "USPDDN" appended as a data source in square brackets. For searching, all data not enclosed in square brackets are indexed, and in addition, all individual words are also indexed, applying the same rules used to create name fragments from the SY field. For example, the following CC field which prints as:

```
CC - Enzyme inhibitor [urease]
                        [USPDDN]
```

would produce the following searchable terms in the CC field:

```
ENZYME INHIBITOR
ENZYME
INHIBITOR
UREASE
USPDDN
```

A search for all Enzyme Inhibitors could be done as follows:

```
USER:
(cc) enzyme inhibitor
```

This yields 19 records. To limit this search to inhibitors of urease, the following strategy could be used:

```
USER:
(cc) enzyme inhibitor and urease
```

This yields 3 records.

The CC field prints in both the FULL and DETAILED print formats, directly after the SY field. Qualification is recommended in searching this field;

however it is not usually necessary, because the data are not similar to other data in CHEMLINE.

Ring Structural Data (NR,RS,RE,CL) Fields

In this regeneration, NLM has added Ring Data to over 17,000 records. This is in addition to data provided by CAS through the end of 1982, and by NLM since then. Ring Structural Data is now complete through all records added to CHEMLINE by the end of 1983. An audit of Ring Data from CAS uncovered cases where such data were missing from certain eligible records. These missing data have all been replaced, and users can search this valuable structural key with confidence for records added to the file through 1983.

Locator (LO) Field

In addition to previous file names, the Locator Field now carries the new values MED83, CANCERLIT, and CANCERPROJ from the ELHILL system, as well as HSDB and CCRIS from the TOXNET system. The TDB Locator has been dropped, since substances in this file overlap with HSDB. This field reflects the presence of a CAS Registry Number for a given substance in the files named as Locators (not the presence of a particular name of the substance). Since some files do not always carry Registry Number indexing for all records, the Locator data should be used carefully. The MEDLINE files, for instance, only began to carry RNs consistently in 1980, and CANCERLIT began in 1985. Searches for substances in these files by RN should be supplemented by other terminology such as chemical names searched as text words, or MESH Indexing. The Locator values now possible in CHEMLINE are: TOXLINE, TOXBACK76, TOXBACK65, RTECS, MEDLINE, MED83, MED80, MED77, CANCERLIT,

CANCERPROJ, HSDB, CCRIS, and TSCAINV.

Summary

The new CHEMLINE file continues evolutionary changes designed to aid searchers in effectively and efficiently searching for data pertaining to chemical substances. The ability to determine Pharmacologic and/or Therapeutic Categories for many drugs should be a useful addition for searchers interested in pharmaceutical substances; the additional Locator values not only give new pointers to files carrying pertinent data, but may sometimes be useful qualitative search keys in CHEMLINE because of the differences in scope of the various

files. Please forward any comments or suggestions concerning the new CHEMLINE file to the Division of Specialized Information Services, National Library of Medicine. □

Acknowledgements

Regeneration of a major file is a team effort. The following individuals and organizational units at NLM worked together and with the sources of our data to make this CHEMLINE regeneration successful.

Specialized Information Services (SIS): Mrs. Sylvia Stewart, Dr. Kenneth Alan Collins, Ms. Cynthia Gaines, Mr. Herbert Friedman, Biomedical Information Services Branch, Biomedical Files Implementation Branch.

Office of Computer and Communication Services (OCCS): Mrs. Mindy Tevlowitz, Mr. Vince Ruch

MEDLARS Management Section

Regeneration Of CATLINE, AVLINE, NAF

Carolyn N. Davis
Cataloging Section, NLM

The regeneration of CATLINE®, AVLINE, and the Name Authority File, completed on June 19, 1986, consisted of data changes, new values, and new features, which are described below. Those changes which pertain to CATLINE are denoted by [C]; those to AVLINE by [A], and those to NAF by [N].

I. New Valid Values

A. Item Type (IT) -- [C]

Two new valid values are being used:

| <u>VALUE</u> | <u>MEANING</u> |
|--------------|----------------|
| X | MANUSCRIPT |
| A | ANALYTIC |

All items that have a call number beginning with 'MS.' had their IT field changed from 'M' to 'X'.

Analytics of monographic series will be coded 'A' for new records, but in the regeneration, only items that have a call number of 'W1' and a library symbol of '02NLM' and '0XNLM' have had their IT field changed from 'M' to 'A'. (The main entry for the series remains 'Z'; only the analytics have been changed).

B. Shelving Location (SL) -- [C]

Items shelved in the History of Medicine Division (HMD) have had their Shelving Location values changed.

| <u>OLD VALUE</u> | <u>NEW VALUE</u> |
|------------------|------------------|
| Art | HMD/P&P |

| | |
|------------------|--------------|
| Art/OVRS | HMD/P&P/OVRS |
| Med. Hist. | HMD |
| Med. Hist./OVRS | HMD/OVRS |
| Med. Hist./OVRS2 | HMD/OVRS2 |

(Note: P&P refers to the Prints & Photos Collection; OVRS and OVRS2 refer to different classes of oversize items.)

All records with the old shelving values were changed. During the summer, items published between 1871-1913 will be shifted to the HMD collection, but the Shelving Location field will not be modified until after all pieces are moved.

II. Data Changes

A. Conversion of Corporate Name (CN) or Corporate Name as Subject (CS) to Uniform Title (UT) or Uniform Title as Added Entry (UA) or Uniform Title as Subject (UTS) -- [C], [A]

Before the implementation of Anglo-American Cataloguing Rules, 2nd ed. (AACR2), uniform titles were often entered in the Corporate Name fields. In this regeneration, each Corporate Name or Corporate Name as Subject was matched against the Name Authority File. If a name was coded for both Uniform Title and Corporate Name, and it matched the corporate name in the bibliographic record, the data was moved to the appropriate uniform title field.

B. Brackets Removed From Names (CN), (CS), (CNA), (CNS), (PN), (PS), and Uniform Title Headings (UA), (UT), (UTS) -- [C], [A]; and Corresponding Name Print Versions (NA) -- [N]

Many old records had brackets around various types of names to indicate that they did not appear on the piece in that form. This practice does not

conform to modern rules and interfered with searching and sorting, so the brackets were removed.

C. Initial Articles Removed from Conference (CNA) Corporate (CN), Personal (PN) Names and Uniform Titles (UA), (UT) and Their Subjects (CNS), (CS), (PS), and (UTS) -- [C], [A]; and Corresponding Name Print Versions (NA) -- [N]

Many old records had names preceded with initial articles for "A", "An", or "The" because they appeared on the piece in that form. Because these articles affected searching and sorting, they were removed.

D. Colon Removed from Corporate (CE), Personal (PE), and Title (SE) Series -- [C], [A]

The space colon space, which indicated a sub-series in the revision of Chapter 6 of the Anglo-American Cataloging Rules, 1974 revision was replaced with a period and two spaces to comply with earlier and later rules to make it easier for searching and sorting.

E. Issue Number in Series Moved from Print Version to Issue Number Subelement in Corporate (CE), Personal (PE), and Title (SE) Series -- [C], [A]

In many old records, the issue number was stored in the Print Version subelement instead of the Issue Number Subelement. If the subelement ended with a digit, the program scanned for a comma or semi-colon, and the digit(s) was moved to the 2nd subelement where the issue number is stored. This should make searching and sorting easier as well as making the data more USMARC-compatible.

F. Title Added Entry Indicator Replaced in Title (TI) Fields in Many Records -- [C], [A]

If a record's Main Entry Type (MT) was not Title (T) or Uniform Title (U) and if the Title Added Entry Indicator in the 2nd subelement of the Title (TI) field was "N", the indicator was changed to "G". This change was made so that the unit record will print in the Computer-Output Microform (COM) catalogs under the Title and to conform to current practice of making an added entry for a title which is not the main entry or uniform title.

G. Adding Period to "cent" in Name Date Subelement of the Personal Name (PN) and Personal Name as Subject (PS) -- [C]

In an earlier regeneration, the period, which had been incorrectly keyed in many old records, was removed from the end of the Name Date subelement; however many records had the period inadvertently removed when the subelement ended in "cent.", the abbreviation for century. The missing period has been restored.

H. 1986 MeSH Headings (MH) -- [C], [A]

All records that require 1986 MeSH heading replacements in the MH field were changed by the end of June.

I. Procurement Source (PC) and Price Field (PR) Changes -- [A]

Two procurement sources have been modified in the Procurement Source (PC) and the Price (PR) fields.

| <u>OLD SOURCE</u> | <u>NEW SOURCE</u> |
|----------------------------------|-------------------|
| Medcom, inc. Trainex Division | Medcom, Inc. |

Health Sciences
Consortium

Health Sciences
Consortium (U.S.)

J. Provisional Names Added to NAF --
[N]

About 80,000 name records that

previously had been considered to be in provisional status were added to the Name Authority File. Many of these names had been used only one time or appeared on CIP (Cataloging-in-Publication) bibliographic records and had resided only on NLM's inhouse name authority file.□

Aneuploidy Subfile Added To TOXLINE

Jeanne Goshorn
Specialized Information Services, NLM

Kathy Mavournin, Ph.D.
Environmental Mutagen, Carcinogen and Teratogen
Information Program, Oak Ridge National Laboratory

A new subfile related to mutagenesis will be added to TOXLINE with the update scheduled for July 19, 1986. The Aneuploidy subfile is a collection of bibliographic citations prepared by the Environmental Mutagen Information Center on the subject of numerical chromosomal abnormalities. The initial group of citations added to TOXLINE will contain 3,593 records of papers published since 1969. Regular updates are expected, with subfile growth estimated at a rate of 600 records per year. Papers included in the Aneuploidy subfile are divided into three subsets: population, screening, or general. The population subset includes references on the incidence and etiology of aneuploidy in human populations. Papers reporting effects of physical, chemical or biological agents on chromosome number or related endpoints constitute the screening subset. The general subset is a group of relevant papers that do not fit the definitions of the first two subsets, such as

mechanisms of chromosome segregation, mutations affecting nondisjunction rates in meiosis or mitosis, or the significance of aneuploidy in human diseases.

Each record in the Aneuploidy subfile contains basic bibliographic information and Keywords (KW) describing the subject matter. The Abstract field (AB) carries only an identifier similar to that in the EMIC subfile of TOXLINE which also is prepared by the Environmental Mutagen Information Center. A sample record is shown in Figure 1.

The subfile will be identified in the Secondary Source ID (SI) field in TOXLINE by the abbreviation "ANEUPL", and the terms "ANEUPLOIDY" and "FILE" will identify the subfile in the abstract field. Retrieval can be limited to this subfile by combining the search topic (using AND) with the statement ANEUPLOIDY AND FILE. The descriptive Keywords are assigned from an established list. Test organisms and agents are identified, as well as taxonomic class, species, cell type observed, and general exposure conditions (in vivo, in vitro). Chemical agents are identified by name and by the Chemical Abstracts Service Registry Number which appears in TOXLINE's CAS Registry Number (RN) field. □

| | |
|----|--|
| SI | - ANEUPL/79/000675 |
| AU | - COATE WB |
| AU | - KAPP RW |
| TI | - CHRONIC EXPOSURE TO LOW CONCENTRATIONS OF HALOTHANE-NITROUS OXIDE: REPRODUCTIVE AND CYTOGENIC EFFECTS IN THE RAT |
| SO | - ANESTHESIOLOGY 50:310;1979 |
| LA | - ENG |
| CD | - ANESA |
| AB | - ANEUPLOIDY FILE/EMIC/ORNL |
| KW | - AGENT TEST RESULTS |
| KW | - CHROMOSOME NUMBER |
| KW | - ANESTHETICS |
| KW | - MAMMAL RAT BONE MARROW |
| KW | - MAMMAL RAT SPERMATOGONIA |
| KW | - HALOTHANE |
| KW | - NITROUS OXIDE |
| RN | - 151-67-7; 10024-97-2 |
| EM | - 8607 |

Figure 1

GRATEFUL MED

[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Suggestions for this column are appreciated.]

Is it possible to use GRATEFUL MED with a 2400 baud modem?

Yes, GRATEFUL MED may be set up to operate with a 2400 baud modem. Basically, a program file of GRATEFUL MED called BLOGIN must be edited and SETUP must be run using the 2400 baud numbers and/or 1200 baud numbers. The following steps outline the 2400 baud set up procedures using a two floppy drive system. The necessary changes may be done on a hard disc by using DOS and EDLIN C:BLOGIN (see below).

1. Boot up DOS, keeping it in Drive A.
2. Put the working copy of GRATEFUL MED in Drive B.
3. Type: EDLIN B:BLOGIN <cr> (hit a carriage return)
(Note: "EDLIN" is a text editor program found in the supplemental program of DOS.)
4. System responds: End of input file
*
(the * is the user prompt when doing EDLIN)
5. Type: L <cr>
6. System responds with a list of the contents of the file BLOGIN; each line will have a line number.
7. Type: 3 <cr>
8. System responds: 3:00,9A,5A,00,20
3:*
9. Type: 00,A3,9A,00,20 <cr>

10. System responds: *
11. Type: 4 <cr>
12. System responds:
4:AT M0 E1 V1 Q0 F1
4:*
13. Type: ATM0E1V1Q0 <cr>
(Enter without spaces)
14. System responds: *
14. Type: L <cr>
Check lines 3 and 4 to be sure the changes you made actually "took".
If not repeat steps 7 through 14.
15. System responds: *
16. Type: E <cr> (carriage return to end)

Once these steps have been completed, it is possible to run SETUP and input the 2400 baud phone numbers and/or the 1200 baud numbers. (In the list of Telephone Numbers For Access To The NLM Computer, which is distributed to all users as an occasional supplement to the NLM Technical Bulletin, 2400 baud numbers are identified by a dollar sign (\$) following the number.) If you decide to use 1200 baud numbers with the 2400 baud setup, each phone number must be preceded with the letter L. This tells GRATEFUL MED that this phone number is a low speed number (in contrast to 2400 baud which is high speed). □

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p. 3.
MONTHLY SEARCH HINT, p. 14

Monthly Search Hint

Retrieving References On Head And Neck Neoplasms Using MeSH Headings

Janice L. Contini
Pacific Southwest Regional
Medical Library Service

MEDLINE searchers use MeSH headings to take advantage of the strength of that database: in-depth indexing based on a comprehensive vocabulary. MeSH headings also are available for searching in the HEALTH file, in the CANCERLIT database since 1980, and in the CANCERPROJ database since 1985.

When checking for a MeSH heading on the topic of cancer of the head and neck, the term HEAD AND NECK NEOPLASMS is easily located. The searcher might note the lack of a + following its tree number, indicating that there are no more specific terms under the heading in the Tree Structures. Ever since its introduction in 1976, HEAD AND NECK NEOPLASMS has been considered a "convenience" term that served as a general heading for indexing those papers dealing with neoplasms in that general area of the body. Because the term is not, medically speaking, a true neoplasm description, the MeSH Section at NLM never indented more specific headings under it, but relied on the MeSH annotation to direct indexers and searchers to those more specific headings. Upon perusal of the NEOPLASMS BY SITE (C4.588+) section of the Tree Structures, one can find the other MeSH headings which refer to neoplasms occurring in specific locations of the head and neck, but which are not indented below HEAD AND NECK NEOPLASMS.

Because the indexers apply the most specific MeSH heading to references,

one must use other MeSH headings in addition to HEAD AND NECK NEOPLASMS in order to retrieve all references in MEDLINE on the subject of head and neck neoplasms. The indexers use the heading HEAD AND NECK NEOPLASMS only for those articles discussing the subject in general or the subject of neck neoplasms. Figure 1 shows three examples.

For those articles discussing specific sites, specific MeSH headings are used. For example, if an article discusses neoplasms located in the larynx, LARYNGEAL NEOPLASMS is used, or for articles discussing cancer of facial tissue, FACIAL NEOPLASMS is used. Examples of these types are shown in Figure 2.

Those references would not be retrieved if only the term HEAD AND NECK NEOPLASMS was used. The searcher must use all of the following terms to ensure complete retrieval of articles on various head and neck neoplasms.

```

HEAD A#D NECK NEOPLASMS
FACIAL NEOPLASMS
Exp JAW NEOPLASMS (C4.588.149.450+)
SKULL NEOPLASMS
Exp MOUTH NEOPLASMS (C4.588.546+)
Exp OTORHINOLARYNGOLOGIC NEOPLASMS
(C4.588.660+)
    
```

Other MeSH headings may be used as well. ORBITAL NEOPLASMS may be included since nasopharyngeal neoplasms can invade the bony structure containing the eye. Usually researchers do not consider neoplasms occurring in the eye itself, the central nervous system, the pituitary gland, the thyroid gland, or the parathyroid gland as head and neck neoplasms; therefore, MeSH headings for those specific sites may be omitted from a comprehensive search for literature on head and neck neoplasms. The key is to check with

General Articles on Head and Neck Neoplasms

- TI - Rhabdomyosarcoma of the head and neck. A review of 25 cases.
- MH - Adolescence ; Adult ; Child ; Child, Preschool ; Female ; *Head and Neck Neoplasms/MORTALITY/THERAPY ; Human ; Male ; Middle Age ; Retrospective Studies ; *Rhabdomyosarcoma/MORTALITY/THERAPY
- TI - Evaluation of a suspected malignant lymph node in the neck.
- MH - Biopsy ; Carcinoma, Squamous Cell/DIAGNOSIS/*SECONDARY/SURGERY ; Case Report ; Head and Neck Neoplasms/*DIAGNOSIS/SURGERY ; Human ; Laryngeal Neoplasms/*DIAGNOSIS/SURGERY ; Lymphatic Metastasis/*DIAGNOSIS/SURGERY ; Male
- TI - Plasma exchange in six patients with advanced cancers of the head and neck.
- MH - Aged ; Carcinoma, Squamous Cell/*THERAPY ; Case Report ; Head and Neck Neoplasms/*THERAPY ; Human ; IgA/ANALYSIS ; IgE/ANALYSIS ; Lymphokines/ANALYSIS ; Male ; Middle Age ; *Plasma Exchange ; Plasmapheresis ; Support, Non-U.S. Gov't ; Support, U.S. Gov't, Non-P.H.S.

Figure 1

Articles on Specific Types of Head and Neck Neoplasms

- TI - Neurotropic melanoma of the face invading the maxillary nerve.
- MH - Case Report ; Facial Neoplasms/*PATHOLOGY/ULTRASTRUCTURE ; Female ; Human ; Maxillary Nerve/*PATHOLOGY ; Melanoma/*PATHOLOGY/ULTRASTRUCTURE ; Microscopy, Electron ; Middle Age ; Nervous System Neoplasms/PATHOLOGY/*SECONDARY/ULTRASTRUCTURE
- TI - Modification of the sublabial approach to midface, nasopharynx, and postnasal tumors.
- MH - Face/SURGERY ; Facial Neoplasms/*SURGERY ; Human ; Methods ; Nasopharyngeal Neoplasms/*SURGERY ; Nose Neoplasms/*SURGERY ; Paranasal Sinus Neoplasms/SURGERY ; Support, Non-U.S. Gov't
- TI - Facial squamous carcinoma with parotid metastasis--closure with cheek-neck rotation.
- MH - Aged ; *Carcinoma, Squamous Cell/SECONDARY/SURGERY ; Case Report ; *Facial Neoplasms/SURGERY ; Human ; Male ; Parotid Neoplasms/*SECONDARY/SURGERY ; *Surgical Flaps
- TI - Social work with laryngectomees.
- MH - Adaptation, Psychological ; Adult ; Aged ; Combined Modality Therapy ; Female ; Human ; Laryngeal Neoplasms/*SURGERY ; Laryngectomy/PSYCHOLOGY/*REHABILITATION ; Male ; Middle Age ; Patient Discharge ; Social Support ; *Social Work ; Terminal Care
- TI - The treatment of early (T1) glottic and supra-glottic carcinoma: does partial laryngectomy have a place?
- MH - Aged ; Female ; Follow-Up Studies ; Glottis/PATHOLOGY/SURGERY ; Human ; Laryngeal Neoplasms/MORTALITY/PATHOLOGY/*SURGERY ; Laryngectomy/*METHODS ; Lymphatic Metastasis/PREVENTION & CONTROL ; Male ; Middle Age ; Prognosis ; Radical Neck Dissection

Figure 2

the requester to be sure that all pertinent terms are used to retrieve citations dealing with neoplasms in the head and neck region. □

Editor's comment: For the 1987 edition of the Medical Subject Headings, the C4.588.433 section of the C4 tree has been extensively restructured in order to deal more effectively with the problem discussed in this article. After examination of the journal and monograph literature, the MeSH Section has decided to indent terms for the soft tissue neoplasms of this area under HEAD AND NECK NEOPLASMS. Figure 3 shows the revised hierarchy. Once

this change takes effect (in December 1986), it will not be necessary to EXPLODE MOUTH NEOPLASMS, FACIAL NEOPLASMS and OTORHINOLARYNGOLOGIC NEOPLASMS in order to get comprehensive retrieval since they will be indented under HEAD AND NECK NEOPLASMS. Searchers should note, however, that JAW NEOPLASMS and SKULL NEOPLASMS (which are neoplasms of bony tissue) will still need to be entered separately as indicated above.

Searchers should also note the general principle implicit in this article that always applies: Be sure to check the trees whenever using the EXPLODE command to be sure that all the terms desired really will be retrieved. □

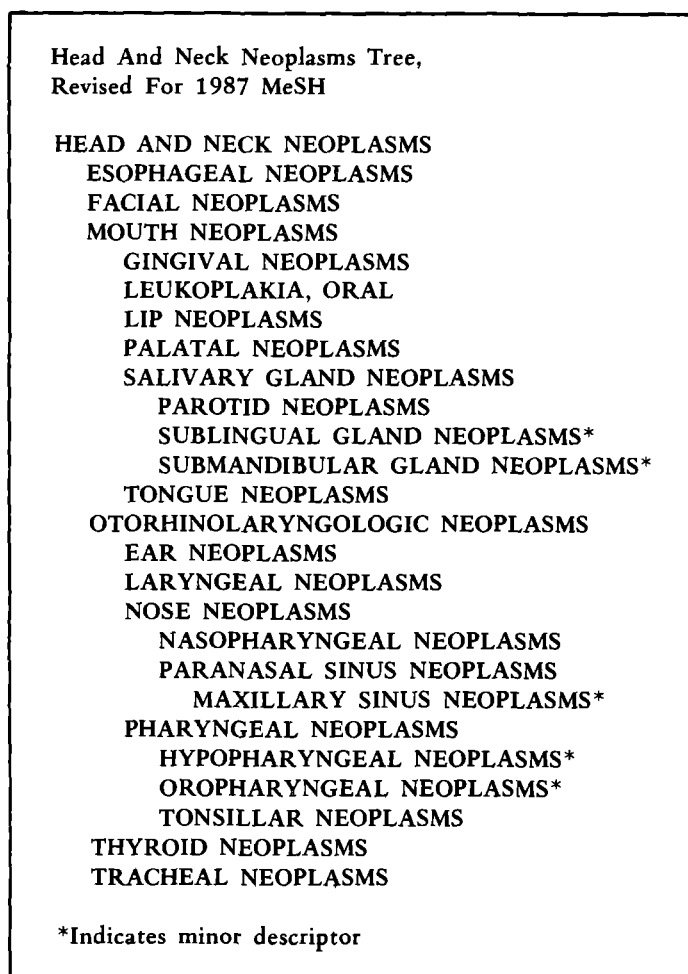


Figure 3

SERIALS UPDATE

INDEXED TITLES UPDATE, JULY 1986

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last

UPDATE. More detailed information about each title may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, JUNE 1986

IM AIDS RESEARCH
AIDS RES
IN1, APR 1983--
MARY ANN LIEBERT
NEW YORK UNITED STATES
INDEXING BEGAN WITH V1N1, 1983.
W1 AI696F 0737-6006
A18035000 JTC: AAV
MARY ANN LIEBERT, 157 EAST 86TH
STREET, NEW YORK NY 10028

IDL DENTIST
DENTIST
IN1, JAN 1985--
STEVENS PUBLISHING
WACO TX UNITED STATES
W1 DE427 0887-5669
SR0053523 JTC: D57

IM DIABETES/METABOLISM REVIEWS
DIABETES METAB REV
IN1/2, 1985--
WILEY
NEW YORK UNITED STATES
INDEXING BEGAN WITH V1N1, 1985.
W1 DI163H 0742-4221
SR0052199 JTC: EAR
JOHN WILEY AND SONS, INC., 605 THIRD
AVENUE, NEW YORK NY 10158

IM DIABETES RESEARCH AND CLINICAL PRACTICE
DIABETES RES CLIN PRACT
IN1, MAR 1985--
ELSEVIER
AMSTERDAM NETHERLANDS
INDEXING BEGAN WITH V1N1, 1985.
W1 DI167T 0168-8227
SR0052526 JTC: EBI
ELSEVIER SCIENCE PUBLISHERS B.V., P.O.
BOX 1527, 1000 BM AMSTERDAM, NETHERLANDS

IM DIAGNOSTIC CYTOPATHOLOGY
DIAGN CYTOPATHOL
IN1, JAN/MAR 1985--
IGAKU-SHOIN MEDICAL PUBLISHERS
NEW YORK UNITED STATES
INDEXING BEGAN WITH V1N1, 1985.
W1 DI258EX 8755-1039
SR0053953 JTC: EAH
IGAKU-SHOIN MEDICAL PUBLISHERS, 1140
AVENUE OF THE AMERICAS, NEW YORK NY 10036

IM DRUGS UNDER EXPERIMENTAL AND CLINICAL
RESEARCH
DRUGS EXP CLIN RES
1, APR 1977--
BIOSCIENCE EDIPRINT
GENEVA SWITZERLAND
INDEXING BEGAN WITH V11N1, 1985.
W1 DR897N 0378-6501
D21420000 JTC: EBM
BIOSCIENCE EDIPRINT, RUE WINKELRIED
8, 1211 GENEVA 1, SWITZERLAND

HLI HEALTHCARE EXECUTIVE
HEALTHCARE EXECUTIVE
IN1, 1986--
FOUNDATION OF THE AMERICAN CLLEGE OF
HEALTHCARE EXECUTIVES
CHICAGO UNITED STATES
INDEXING BEGAN WITH V1N1, JAN-FEB 1986.
ON ORDER 0883-5381
SR0057070 JTC: HEL

IM INTERNATIONAL JOURNAL OF CLINICAL
MONITORING AND COMPUTING
INT J CLIN MONIT COMPUT
IN1, 1984--
MARTINUS NIJHOFF
THE HAGUE NETHERLANDS
W1 IN766DJ 0167-9945
SR0051008 JTC: ITE
MARTINUS NIJHOFF PUBLISHERS, KLUWER
BOSTON INC, 190 OLD DERBY STREET,
HINGHAM MA 02043

- IM INTERNATIONAL JOURNAL OF HYPERTHERMIA
 INT J HYPERTHERMIA
 1N1,JAN/MAR 1985--
 TAYLOR AND FRANCIS
 LONDON ENGLAND
 OFFICIAL PUBLICATION OF THE EUROPEAN
 SOCIETY FOR HYPERTHERMIC ONCOLOGY AND THE
 NORTH AMERICAN HYPERTHERMIA GROUP.
 W1 IN768I 0265-6736
 SR0053575 JTC: IJY
 TAYLOR AND FRANCIS,RANKINE
 ROAD,BASINGSTOKE HANTS. RG24 0PR,ENGLAND
- IM JOURNAL OF CLINICAL HYPERTENSION
 J CLIN HYPERTENS
 1N1,MAR 1985--
 ELSEVIER
 NEW YORK UNITED STATES
 W1 J0588DB 0748-450X
 SR0053804 JTC: JCL
- IM JOURNAL OF COMPARATIVE PHYSIOLOGY. A,
 SENSORY, NEURAL, AND BEHAVIORAL PHYSIOLOGY
 J COMP PHYSIOL [A]
 154N1,JAN 1984--
 SPRINGER VERLAG
 BERLIN GERMANY, WEST
 CONTINUES IN PART: JOURNAL OF COMPARATIVE
 PHYSIOLOGY.
 W1 J0595JA 0340-7594
 J17601000 JTC: JUC
- IM JOURNAL OF COMPARATIVE PHYSIOLOGY. B,
 BIOCHEMICAL, SYSTEMIC, AND ENVIRONMENTAL
 PHYSIOLOGY
 J COMP PHYSIOL [B]
 154N1,JAN 1984--
 SPRINGER VERLAG
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 CONTINUES IN PART: JOURNAL OF COMPARATIVE
 PHYSIOLOGY.
 INDEXING BEGAN WITH V155N1,1985
 W1 J0595JAB 0174-1578
 J17602000 JTC: HVS
- IM JOURNAL OF FREE RADICALS IN BIOLOGY AND
 MEDICINE
 J FREE RADIC BIOL MED
 1N1,1985--
 PERGAMON PRESS
 NEW YORK UNITED STATES
 INDEXING BEGAN WITH V1N1,1985
 W1 J0662 0748-5514
 SR0053225 JTC: IAJ
- IDL KAO-HSIUNG I HSUEH KO HSUEH TSA CHIH
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 1N1,JAN 1985--
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 KAOHSIUNG TAIWAN
 CALLED ALSO: KAO-HSIUNG I CHIH.
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 W1 KA754C 0257-5655
 SR0055777 JTC: KAO
- IM MICROCIRCULATION, ENDOTHELIUM, AND
 LYMPHATICS
 MICROCIRC ENDOTHELIUM LYMPHATICS
 1N1,FEB 1984--
 DEERFIELD SCIENTIFIC PUBLISHERS
 DEERFIELD BEACH FL UNITED STATES
 IMPRINT VARIES: DEERFIELD BEACH, FL : VCH
 PUBLISHERS, 1985- .
 INDEXING BEGAN WITH V1N1,1984
 W1 MI298F 0740-9451
 SR0051843 JTC: M9N
 DEERFIELD SCIENTIFIC PUBLISHERS INC.,
 303 NW 12TH AVE., DEERFIELD BEACH FL
 33441
- INI NASU SUTESHON
 NASU SUTESHON
 1,1971--
 NASU SUTESHON
 TOKYO JAPAN
 INDEXING BEGAN WITH V16N1 1986
 W1 NA213 0387-351X
 N01740000 JTC: NQU
- IDL NIPPON HOTETSU SHIKA GAKKAI ZASSHI
 NIPPON HOTETSU SHIKA GAKKAI ZASSHI
 1,1957--
 NIHON SHIKA GAKKAI
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 SHIKA GAKKAI. TABLE OF CONTENTS ALSO IN
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 INDEXING BEGAN WITH V30N2,1986.
 W1 NI906M 0389-5386
 N25220000 JTC: NIP
- IDL RDH
 RDH
 1,1981--
 STEVENS PUBLISHING CORPORATION
 WACO TX UNITED STATES
 THE NATIONAL MAGAZINE FOR DENTAL HYGIENE
 PROFESSIONALS.
 INDEXING BEGAN WITH V6N1,1986.
 W1 RD2 0279-7720
 R04930000 JTC: RAG

INI REVISTA CUBANA DE ENFERMERIA
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 INI, JAN-APR 1985?--
 CENTRO NACIONAL DE INFORMACION DE CIENCIAS
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 SR0056875 JTC: RNM

INI STATE NURSING LEGISLATION QUARTERLY
 STATE NURS LEGIS Q
 3N4, WINTER 1985--
 AMERICAN NURSES ASSOCIATION
 KANSAS CITY MO UNITED STATES
 CONTINUES: STATE LEGISLATIVE REPORT.
 INDEXING BEGAN WITH V3N4 WINTER 1985
 IN PROCESS
 SR0055874 JTC: U9N

IM ZEITSCHRIFT FUR KINDER- UND
 JUGENDPSYCHIATRIE
 Z KINDER JUGENPSYCHIATR
 1, 1973--
 VERLAG HANS HUBER
 BERN SWITZERLAND
 SUPERSEDES JAHRBUCH FUR JUGENDPSYCHIATRIE
 UND IHRE GRENZGEBIETE DEUTSCHE VERINIGUNG
 FUR KINDER- UND JUGENDPSYCHIATRIE.
 INDEXING BEGAN WITH V13N1, 1985
 W1 ZE43N 0301-6811
 Z03840000 JTC: YF4
 VERLAG HANS HUBER, POSTFACH CH-3000,
 BERN 9, SWITZERLAND

TITLE CHANGES, JUNE 1986

IM ANATOMIA CLINICA
 ANAT CLIN
 1, 1978-7N4, 1985
 SPRINGER INTERNATIONAL
 BERLIN GERMANY, WEST
 COLOR SLIDES IN POCKET. CONTINUED BY:
 SURGICAL AND RADIOLOGIC ANATOMY.
 INDEXING BEGAN WITH V5N1, 1983.
 W1 AN1919W 0343-6098
 A30030000 JTC: ANC

IM CANADIAN JOURNAL OF COMPARATIVE MEDICINE
 Can J Comp Med
 32, APR 1968-49N4, OCT 1985
 CANADIAN VETERINARY MEDICAL ASSOCIATION
 OTTAWA CANADA
 CONTINUES: CANADIAN JOURNAL OF COMPARATIVE
 MEDICINE AND VETERINARY SCIENCE. CONTINUED
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 W1 CA586 0008-4050
 C03980000 JTC: C10

IM CANADIAN JOURNAL OF VETERINARY RESEARCH
 CAN J VET RES
 50N1, JAN 1986--
 CANADIAN VETERINARY MEDICAL ASSOCIATION
 OTTAWA CANADA
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 R.C.R.V. CONTINUES: CANADIAN JOURNAL OF
 COMPARATIVE MEDICINE.
 W1 CA619 0830-9000
 SR0056819 JTC: CKL

HLI HEALTHCARE EXECUTIVE
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 SR0057070 JTC: HEL

IDL CRANIO
 CRANIO
 3N1, DEC/FEB 1984-85--
 WILLIAMS AND WILKINS
 BALTIMORE MD UNITED STATES
 CONTINUES: JOURNAL OF CRANIO-MANDIBULAR
 PRACTICE.
 IN PROCESS 0886-9634
 SR0057088 JTC: CRN

IDL JOURNAL OF CRANIO-MANDIBULAR PRACTICE
 J CRANIOMANDIBULAR PRACT
 IN1, DEC/FEB 1982-83-2N4, SEP/NOV 1984
 CHROMA
 CHATTANOOGA TN UNITED STATES
 CONTINUED BY: CRANIO.
 W1 JO602W 0734-5410
 J18035000 JTC: IH7

IM SURGICAL AND RADIOLOGIC ANATOMY
 SURG RADIOL ANAT
 8N1, 1985--
 SPRINGER INTERNATIONAL
 BERLIN GERMANY, WEST
 CONTINUES: ANATOMIA CLINICA.
 W1 SU76D 0930-312X
 SR0057235 JTC: VBE

TITLES NO LONGER INDEXED AS OF JUNE 1986

IDL DENTAL-REVUE
 DENT REV
 1, 1984?-12, 1985
 VOGT-SCHILD
 SOLOTHURN SWITZERLAND
 ZEITSCHRIFT FUR ZAHNMEDIZIN.
 INDEXING BEGAN WITH N10, 1985.
 W1 DE348E 0255-6928
 SR0054749 JTC: EBO

INI NEWSETTE
 NEWSETTE
 IN1, 1961-22N4, 1982?
 MINISTRY OF HEALTH NATIONAL LEAGUE OF NURSES
 MANILA PHILIPPINES
 W1 NE997S 0418-7199
 N18400000 JTC: O33

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| <p>IDL QUINTESSENCIA QUINTESSENCIA IN1,1974?-10N6,1983? EDITORA QUINTESSENCIA DO BRASIL RIO DE JANEIRO BRAZIL W1 QU859N Q03255000 JTC: QLC</p> | <p>IDL REVISTA DE LA FACULTAD DE ODONTOLOGIA REV FAC ODONTOL UNIV NAC (CORDOBA) IN1,1969?-13N2,1981? DIRECCION GENERAL DE PUBLICACIONES CORDOBA ARGENTINA OFFICIAL ORGAN OF THE FACULTAD DE ODONTOLOGIA, UNIVERSIDAD NACIONAL DE CORDOBA. W1 RE409U 0325-1071 R34470000 JTC: RFO</p> |
| <p>IM RADIATION RESEARCH. SUPPLEMENT RADIAT RES [SUPPL] 1,1959-8,1985 ACADEMIC PRESS NEW YORK UNITED STATES VOLS. FOR 1985 ISSUED AS PT.2 OF RADIATION RESEARCH V.104,NO.2. W1 RA1661 0485-8611 R00700000 JTC: QHQ</p> | <p>INI SOINS. CARDIOLOGIE SOINS CARDIOL N1,MAR 1983-N38,APR 1986 SFIREC PARIS FRANCE W1 S08862KT 0755-1916 S30541000 JTC: UVK</p> |

INI SOINS. PATHOLOGIE TROPICALE
 SOINS PATHOL TROP
 N9,JAN 1978-N58,APR 1986
 SFIREC
 FRANCE
 CONTINUES: SOINS. EDITION AFRICAINE.
 W1 S08862SM 0222-9307
 S30545600 JTC: UVM

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES, JUNE 1986

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH, and POPLINE are listed in the "INDEXED TITLES UPDATE" section. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill

loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ACTA STRABOLOGICA
 1985--
 CERCLE D ETUDES DE RECHERCHE ET D
 ENSEIGNEMENT DE LA STRABOLOGIE
 PARIS FRANCE
 ON ORDER
 SR0057053
 CERCLE D ETUDES DE RECHERCHES ET
 D,ENSEIGNMENT DE LA STRABOLOGIE,29 RUE
 MANIN,75019 PARIS,FRANCE

ACUTE CORONARY CARE
 1986--
 MARTINUS NIJHOFF
 BOSTON UNITED STATES
 ON ORDER
 SR0057120
 MARTINUS NIJHOFF PUBLISHER,190 DERBY
 ST.,HINGHAM MA 02043

AMERICAN JOURNAL OF CARDIAC IMAGING
 1N1, JAN 1987--
 GRUNE AND STRATTON
 ORLANDO FL UNITED STATES
 ON ORDER
 SR0057206

AMERICAN JOURNAL OF CARDIOVASCULAR NURSING
 1N1, OCT/DEC 1986--
 J.P. LIPPINCOTT
 PHILADELPHIA UNITED STATES
 ON ORDER \$36.00
 SR0057153
 J.B. LIPPINCOTT, EAST WASHINGTON
 SQUARE, PHILADELPHIA PA 19105

AMERICAN JOURNAL OF PSYCHIATRIC NURSING
 1N1, FEB 1987--
 GRUNE AND STRATTON
 ORLANDO FL UNITED STATES
 ON ORDER
 SR0057205

ANNUAL REVIEW OF PULMONARY AND CRITICAL
 CARE MEDICINE
 1986/87--
 HANLEY AND BELFUS
 PHILADELPHIA UNITED STATES
 ON ORDER
 SR0057066

ARCHIVES OF CLINICAL NEUROPSYCHOLOGY
 1, 1986--
 PERGAMON
 ELMSFORD NY UNITED STATES
 ON ORDER \$75.00
 SR0057260
 PERGAMON JOURNAL INC., ELMSFORD NY

BRITISH JOURNAL OF NEUROSURGERY
 1, 1987--
 CARFAX
 HOPKINTON MA UNITED STATES
 ON ORDER \$90.00
 SR0057240
 CARFAX PUBLISHING COMPANY, 85 ASH
 STREET, HOPKINTON MA 01748

CARDIOVASCULAR DRUGS AND THERAPY
 1, 1987--
 NIJHOFF
 HINGHAM MA UNITED STATES
 ON ORDER \$120.00
 SR0057256

CLINICAL VISION SCIENCES
 1, 1986--
 PERGAMON
 ELMSFORD NY UNITED STATES
 ON ORDER \$145.00
 SR0057261
 PERGAMON JOURNALS INC., MAXWELL
 HOUSE, FAIRVIEW PARK, ELMSFORD NY 10523

COGNITIVE DEVELOPMENT
 1, 1986--
 ABLEX
 NORWOOD NJ UNITED STATES
 ON ORDER \$55.00
 SR0057149
 ABLEX, 355 CHESTNUT STREET, NORWOOD NJ
 07648

CURRENT THERAPY IN CARDIOVASCULAR DISEASES
 2, 1986/87--
 YEAR BOOK MEDICAL PUBLISHERS
 CHICAGO UNITED STATES
 ON ORDER \$52.00
 SR0057039
 YEAR BOOK MEDICAL PUBLISHERS, 35 EAST
 WACKER DRIVE, CHICAGO IL 60601

DUNS GUIDE TO HEALTHCARE COMPANIES
 1986--
 DUNS MARKETING SERVICES
 PARSIPPANY NJ UNITED STATES
 ON ORDER \$350.00
 SR0057107

HUMAN DEVELOPMENT
 1, 1986--
 ABLEX
 NORWOOD NJ UNITED STATES
 IN PROCESS
 SR0057054
 ABLEX PUBLISHING CORPORATION, 355
 CHESTNUT STREET, NORWOOD NJ 07648

JOURNAL OF CARDIOTHORACIC ANESTHESIA
 1N1, JAN 1987--
 GRUNE AND STRATTON
 ORLANDO FL UNITED STATES
 ON ORDER
 SR0057204

JOURNAL OF CARDIOVASCULAR NURSING
 1N1, OCT 1986--
 ASPEN PUBLISHERS
 ROCKVILLE MD UNITED STATES
 ON ORDER \$45.00
 SR0057233
 ASPEN PUBLISHERS INC, 1600 RESEARCH
 BLVD, ROCKVILLE MD 20850

JOURNAL OF ORTHOPAEDIC TRAUMA
1,1987--
RAVEN PRESS
NEW YORK
ON ORDER
SR0057266
UNITED STATES
\$78.00

JOURNAL OF VETERINARY INTERNAL MEDICINE
IN1,JAN/MAR 1987--
J.B. LIPPINCOTT
PHILADELPHIA
ON ORDER
SR0057157
\$40.00
J.B. LIPPINCOTT,EAST WASHINGTON
SQUARE,PHILADELPHIA PA 19105
UNITED STATES

MODERN ISSUES IN MENTAL HEALTH CARE
1986/87--
HATHERLEIGH
NEW YORK
ON ORDER
SR0057167
\$59.95
HATHERLEIGH COMPANY, 420 EAST 51ST
STREET,NEW YORK NY 10022
UNITED STATES

PALAESTRA
IN1,FALL 1984--
CHALLENGE PUBLICATIONS
MACOMB IL
FIRST ISSUE CALLED PREMIER ISSUE. THE
FORUM OF SPORT AND PHYSICAL EDUCATION FOR
THE DISABLED.
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SR0057264
UNITED STATES

PHLEBOLOGY
1,1986--
JOHN LIBBEY EUROTTEXT
MONTRouGE
ON ORDER
SR0057050
\$95.00
JOHN LIBBEY EUROTTEXT,6 RUE BLANCHE,92120
MONTRouGE,FRANCE
FRANCE

VACCINES...
1,1985--
COLD SPRING HARBOR LABORATORY
COLD SPRING HARBOR NY
TITLE VARIES WITH YEAR: VACCINES 85, ETC.
ON ORDER
SR0057207
UNITED STATES

PROBLEMS IN ANESTHESIA
IN1,JAN/MAR 1987--
J.B. LIPPINCOTT
PHILADELPHIA
ON ORDER
SR0057155
\$74.00
J.B. LIPPINCOTT,EAST WASHINGTON
SQUARE,PHILADELPHIA PA 19105
UNITED STATES

PROBLEMS IN CRITICAL CARE
IN1,JAN/MAR 1987--
J.B. LIPPINCOTT
PHILADELPHIA
ON ORDER
SR0057173
\$74.00
J.B. LIPPINCOTT,EAST WASHINGTON
SQUARE,PHILADELPHIA PA 19105
UNITED STATES

PROBLEMS IN UROLOGY
IN1,JAN/MAR 1987--
J.B. LIPPINCOTT
PHILADELPHIA
ON ORDER
SR0057156
\$74.00
J.B. LIPPINCOTT,EAST WASHINGTON
SQUARE,PHILADELPHIA PA 19105
UNITED STATES

SCIENCE ET SPORTS
IN1,MAR 1986--
ELSEVIER
PARIS
FRANCE
JOURNAL DE LA MEDECINE, DES SCIENCES ET DES
TECHNIQUES DES ACTIVITES PHYSIQUES,
SPORTIVES ET DES PRATIQUES CORPORELLES.
ON ORDER
SR0057046

TOXICOLOGY IN VITRO
1,1987--
PERGAMON
ELMSFORD NY
ON ORDER
SR0057241
\$95.00
PERGAMON JOURNALS INC.,MAXWELL
HOUSE,FAIRVIEW PARK,ELMSFORD NY 10523
UNITED STATES

THE NLM

GRATEFUL MED Users:
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ISSN 0146-3055

AUGUST 1986

No. 208

Technical Bulletin

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NLM Online Users' Meeting, MLA Annual Meeting, Minneapolis, MN, May 21, 1986

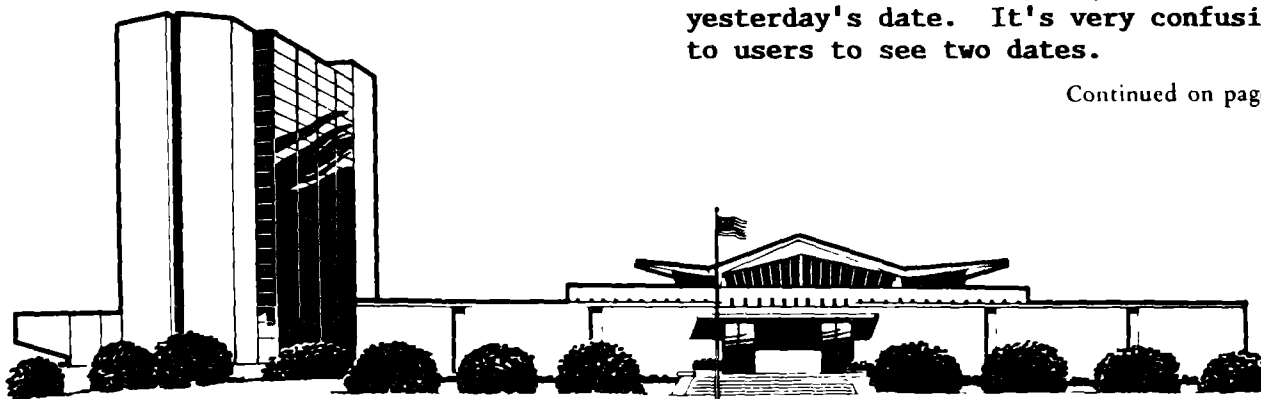
The following questions were posed during the online users' meeting. The answers provided are based on the answers given at the time of the meeting, but have been edited and, in some cases, amplified by staff at NLM.

1. Could you please comment on the history behind the name GRATEFUL MED?

Many suggestions were discussed within the Library, lists were prepared, and different options were discussed. The senior staff of the Library, including the Director, looked over the lists and chose the name GRATEFUL MED.

2. We've been doing a lot of PDQ searches recently. When you log in you get today's date, but when you move over and access the information on state-of-the-art, you get yesterday's date. It's very confusing to users to see two dates.

Continued on page 7



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| DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|-----------------|---------------|-------------------------------|-------------------|-------------------|
| (ELHILL SYSTEM) | | | | |
| AVLINE | 15,094 | THROUGH 1986 | 14 AUG 86 | |
| BIOETHICS | 20,902 | JAN 73-1986 | 09 AUG 86 | 8608(EM) |
| CANCERLIT | 537,095 | JAN 63-AUG 86 | 05 AUG 86 | 8608(EM) |
| CANCERPROJ | 10,183 | THROUGH 1986 | 05 JUL 86 | 8607(EM) |
| CATLINE | 606,783 | THROUGH 1986 | 14 AUG 86 | |
| CHEMLINE | 693,633 | | 09 AUG 86 | 8608(EM) |
| CLINPROT | 5,556 | | 02 AUG 86 | 8607(EM) |
| DIRLINE | 15,531 | | 02 AUG 86 | |
| HEALTH | 350,598 | JAN 75-AUG 86 | 12 JUL 86 | 8608(EM) |
| HISTLINE | 73,246 | | 08 AUG 86 | 8607(EM) |
| MEDLINE | 692,270 | JAN 84-SEP 86 | 02 AUG 86 | 8609(EM) |
| MED83 | 286,615 | JAN 83-DEC 83 | 22 MAR 86 | |
| MED80 | 804,746 | JAN 80-DEC 82 | 26 JUL 86 | |
| MED77 | 775,066 | JAN 77-DEC 79 | 08 FEB 86 | |
| MED75 | 642,612 | JAN 75-DEC 76 | 19 MAY 86 | |
| MED71 | 883,077 | JAN 71-DEC 74 | 07 JUN 86 | |
| MED66 | 954,368 | JAN 66-DEC 70 | 12 AUG 86 | |
| MESH VOC | 58,096 | 1986 | 16 AUG 86 | |
| NAME AUTH | 275,800 | | 09 AUG 86 | |
| POPLINE | 149,617 | 1970-AUG 86 | 12 AUG 86 | 8608(EM) |
| RTECS | 82,973 | THROUGH JUL 86 | 14 AUG 86 | |
| SDILINE | 26,340 | SEP 86 | 02 AUG 86 | 8609(EM) |
| SERLINE | 67,065 | 1986 | 19 JUL 86 | |
| TOXLINE | 830,718 | | 16 AUG 86 | 8608(EM) |
| CBAC | 453,380 | 1981-VOL 105(1,2) | | |
| TOXBIB | 170,404 | 1981-SEP 1986 | | |
| IPA (ASHP) | 38,195 | 1981-VOL 23(15,16) | | |
| BIOSIS | 40,299 | JUL 1986 | | |
| HEEP | 49,788 | 1981-VOL 14(8) | | |
| PESTAB | 1,536 | 1981 | | |
| EMIC | 12,899 | 1981-MAR 1986 | | |
| ETIC | 13,864 | 1981-JUN 1986 | | |
| TD3 | 24,299 | 1981-GR&I 86(10,11) | | |
| HMTc | 1,869 | 1981-APR 1986 | | |
| ILO | 4,915 | JUL 1986 | | |
| RPROJ/CRISP | 16,086 | FISCAL YEARS 1983, 1984, 1985 | | |
| ANEUPLOIDY | 3,593 | 1969-JUN 1986 | | |
| TOXBACK76 | 555,808 | | 27 AUG 84 | |
| CBAC | 298,383 | 1976-1980 | | |
| TOXBIB | 106,643 | 1976-1980 | | |
| IPA(ASHP) | 33,321 | 1976-1980 | | |
| HEEP | 63,796 | 1976-1980 | | |
| PESTAB | 14,757 | 1976-1980 | | |
| EMIC | 17,267 | 1976-1980 | | |
| ETIC | 11,970 | 1976-1980 | | |
| TD3 | 9,671 | 1976-1980 | | |
| TOXBACK65 | 598,424 | | 27 AUG 84 | |
| CBAC | 287,992 | 1965-1975 | | |
| TOXBIB | 155,387 | 1965-1975 | | |
| IPA(ASHP) | 33,876 | 1969-1975 | | |
| HEEP | 54,075 | 1970-1975 | | |
| HAPAB/PESTAB | 18,416 | 1968-1975 | | |
| EMIC | 19,554 | 1950-1975 | | |
| ETIC | 13,694 | 1950-1975 | | |
| TD3 | 839 | PRE-1965-1975 | | |
| HAYES | 10,039 | 1940-1968 | | |
| TMIC | 4,552 | 1940-1975 | | |
| (TOXNET SYSTEM) | | | | |
| CCRIS | 1,136 | | 01 JUL 86 | |
| HSDB | 4,142 | | 12 AUG 86 | |
| TDB | 4,139 | | 01 OCT 85 | |

Editor: Carolyn B. Tilley
 Assistant Editor: T. Scott Plutchak
 Technical Notes Editor: Patricia E. Healy
 Grateful Med Page Editor: Kathleen Stenger
 (301) 496-6193

Direct Inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 Bldg. 38A, Rm. 4N421
 Bethesda, Maryland 20894

Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual, 1986 that is considered to be most relevant to the item being discussed, e.g., (Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

COLUMBUS DAY HOLIDAY SCHEDULE

The NLM computer will be up on Monday, October 13, 1986, the day of the federal government observance of Columbus Day. Non-prime rates will be in effect all day. The MEDLARS® Management Service Desk will not be staffed. On Columbus Day, Sunday, October 12, 1985, regular Sunday hours and rates will be in effect. □

TELECOMMUNICATIONS NUMBERS AND ELIMINATION OF UNINET

On July 1, 1986, GTE and the United Telephone Company merged to become a new company, called US Sprint. This merger included the combination of four companies into one. The four companies were GTE Sprint Communications (voice long distance), GTE TELENET (data service), US Telecom (voice long distance), and United Telephone Company's UNINET (data service). TELENET is now a company under US Sprint, and UNINET network services are being phased out. Effective October 1, 1986, UNINET MEDLARS searchers should discontinue all use of their UNINET local access numbers and UNINET access procedures. Searchers should begin using either TELENET or TYMNET services to connect to the NLM MEDLARS system at that time. In those cities where there was only UNINET service, it is expected

that TELENET or TYMNET numbers will become available during the next few months. Please call the MEDLARS Management Service Desk if you experience telecommunications problems or have any questions regarding network access. □

GRATEFUL MED AVAILABLE TO CANADIAN USERS

Effective August 15, 1986, Canadian MEDLARS users may purchase GRATEFUL MED from the National Technical Information Service. The GRATEFUL MED package now includes the TELENET DATAPAC Telecommunications protocols necessary to use GRATEFUL MED from Canada. Special installation instructions are included with the package as well as information referring Canadians to HSRC (see below) for system access codes and user support.

The price is \$29.95 (U.S.) plus \$3.00 shipping and handling. The order number is PB86-158482/GBB. Orders should be sent to:

National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, Virginia 22161
703/487-4650 (for phone orders from individuals/organizations with an NTIS deposit account or major credit card)

Remittance should accompany all orders and must be in the form of: 1) a check drawn on a United States bank, 2) an international money order, or 3) an NTIS deposit account.

Canadian users with questions concerning GRATEFUL MED should call or write:

Health Sciences Resource Centre (HSRC)
Canada Institute for Scientific and
Technical Information (CISTI)
National Research Council
Ottawa, Ontario K1A 0S2
Telephone: (613) 993-1604
(M-F, 8:30 am to 4:30 pm Eastern Time)
□

Clearinghouse has changed its name.
The new name and the address are:

ODPHP Health Information Center (OHIC)
P.O. Box 1133
Washington, DC 20013-1133
800/336-4797
202/429-9091 (new local number)

CANCERPROJ UPDATES SUSPENDED

Due to recent budget constraints, the National Cancer Institute has announced that updating of the CANCERPROJ database has been suspended indefinitely. It is anticipated that the database will continue to be available on the MEDLARS system at least through September 1987. Many of the research projects in the database are relatively new and/or are multi-year projects, thus they will remain active during the next several years. □

Although the Clearinghouse has a new name, OHIC citations input to DIRLINE will continue to be identified in the Secondary Source (SI) field by the acronym, HR.

NOTE: ODPHP stands for Office of Disease Prevention & Health Promotion. The Center is known correctly as ODPHP Health Information Center. □

AUGUST 1986 INDEX MEDICUS

The August 1986 issue of Index Medicus consists of 1628 pages; 28 more pages than the printer is willing to guarantee will remain intact in one volume. In spite of these binding restrictions, this issue has been bound in one volume. If you experience any problems with the binding/pages, please do not ask for replacement copies because all issues potentially have the same problem. NLM does not plan to exceed the maximum number of pages for future issues. □

NEW DIRLINE SUBFILE

On August 2, 1986 DIRLINE was updated and a new subfile added. The new subfile, Poison Control Centers, has the acronym, PCC, in the Secondary Source (SI) field. It contains 118 records describing primarily state-designated Poison Control Centers or those certified by the American Association of Poison Control Centers. Please see future issues of the NLM Technical Bulletin for additional information about the new subfile. □

DIRLINE -- NATIONAL HEALTH INFORMATION CLEARINGHOUSE

The National Health Information

NEW TITLES INDEXED IN POPLINE

POPLINE will add title abbreviations and journal title codes for 26 POPLINE titles late this year. Please refer to the Serials Update section of this issue of the NLM Technical Bulletin for a complete list of these titles. There are also a number of titles in the List of Serials Indexed for Online Users (LSIOU) with the Special List Indicator of P which were not indexed

in POPLINE. These will be deleted from the 1987 LSIUO.□

NLM ONLINE SERVICES REFERENCE MANUAL, 1986 and MESH TOOLS 1987

The 1986 NLM Online Services Reference Manual may now be ordered from the National Technical Information Service (NTIS) for delivery in late September. The order number is PB86-219672/GBB. The hardcopy U.S. and Canadian price is \$46.00 (\$92.00 foreign); a microfiche version costs \$23.00 (\$46.00 foreign).

This is the first complete revision of the Manual since 1982. It contains 1,200 pages in 27 chapters and comes with two 2-inch red binders and index tabs. The Manual contains five new chapters: PART 15 User-Friendly PDQ, PART 19 DIRLINE, PART 25 TOXNET, PART 26 HSDB, and PART 27 CCRIS. Chapters 4 through 6 have been completely rewritten and expanded. The MEDLINE chapter, PART 7, has been extensively revised. Other chapters have been brought up to date. There are individual indexes at the end of each chapter and a comprehensive Index at the end.

The following 1987 MeSH® tools may also now be ordered from NTIS for delivery in late September:

Medical Subject Headings--
Annotated Alphabetic List, 1987
PB86-227774/GBB
\$21.00, U.S. and Canada
(\$42.00 foreign);
microfiche, \$6.50 (\$13.00 foreign)

Medical Subject Headings--
Tree Structures, 1987
PB86-227782/GBB
\$16.00, U.S. and Canada
(\$32.00 foreign);
microfiche, \$4.50 (\$9.00 foreign)

Permuted Medical Subject Headings, 1987
PB86-227790/GBB
\$15.00, U.S. and Canada
(\$30.00 foreign);
microfiche, 4.50 (\$9.00 foreign)

Remittance should be sent with all mail orders. Remember to add \$3.00 (\$4.00 foreign) shipping/handling charge per order. Please see the above Technical Note titled, GRATEFUL MED Available To Canadian Users, for the address and telephone number of NTIS.□

RTECS HARDCOPY PUBLICATION

The hardcopy Registry of Toxic Effects of Chemical Substances (RTECS), 1983-1984 Cumulative Supplement to the 1981-1982 Edition, is now available from:

Superintendent of Documents
U.S. Government Printing Office (GPO)
Washington, DC 20402
202/783-3238 (for phone orders with GPO deposit account or major credit card)

The GPO stock number is SN 017-033-00421-8. The price is \$27.00 (\$33.75 for Canada and foreign). Remittance should accompany all orders and should be in the form of a check payable to the Superintendent of Documents, a GPO deposit account or VISA or Mastercard account.

The 1983-1984 RTECS Cumulative Supplement together with the 1981-1982 edition of RTECS represents the RTECS file as of January 1985. The 1981-1982 printed edition of RTECS is available only from the National Technical Information Service (NTIS).

See the above Technical Note titled, GRATEFUL MED Available To Canadian Users, for the address and telephone number of NTIS.

The order number is PB85-218071. The U.S. and Canadian price is \$196.95

(\$393.90 foreign) for the three-volume hardcopy set. Payment must accompany all orders. Orders from U.S., Canada and Mexico should include \$3.00 to cover shipping/handling. The shipping charge for all other foreign orders is \$4.00.□

Please access FILE INFORM and type NEWS to see the most recent news item online!

NLM Online Users' Meeting
Continued from page 1

The previous day's date is often shown on records in PDQ because the software on which PDQ runs uses the date which is in effect at the time the system is brought up. Most of the time, the system is brought up at approximately 11:30 pm ET. Therefore, the date is usually a day behind the date of the day on which searching is being done.

3. GRATEFUL MED is uploading and downloading, and the user cannot search MEDLINE directly as with BRS/COLLEAGUE, which has a more user-friendly way to search enabling users to modify searches themselves. Are there any future plans to make GRATEFUL MED directly searchable by the end-user?

A searcher can use GRATEFUL MED's expert mode, which is the same as searching the ELHILL system. If the searcher selects option number 3, GO DIRECTLY TO SEARCH BYPASSING THE FORM, from the Action screen, GRATEFUL MED will do an automatic login to MEDLINE and put the user at SS 1. The searcher then takes control of the search session.

4. Do you have scheduled dates for fall MEDLINE updates?

The online updates are scheduled annually by the Regional Medical Libraries for the months of October through December. This year the three Regional Online Training and Information Centers -- the New York Academy of Medicine, the University of Nebraska, and the University of California at Los Angeles -- will sponsor updates throughout the United States. The schedule of updates will be published in the September issue of the NLM Technical Bulletin and can also be obtained from each of the Regional Training Centers.

5. You have added the Unique Identifier (UI) to the standard print commands. Do you plan to add it to Index Medicus? A large number of our ILL requests come from IM rather than MEDLINE.

There is a limit to the number of pages that can be bound in one volume of Index Medicus. The input is monitored each month so that we will not exceed the limit. By adding the UI we run the risk of exceeding the page limit or reducing the number of citations that can be printed. The alternatives are not particularly attractive. We would like to keep as many citations in the index as we can without exceeding the limit.

6. Considering the number of Master's theses and dissertations in the field of physical therapy, we would like you to consider enhancing MeSH terms in this discipline just as you did for communicative disorders in the 1970's.

When reviewing the vocabulary of a subject area, it has been our practice to consult with the various health professionals in a given field. You can encourage the representative professional associations to contact us or send us a list of the associations with whom you feel it might be beneficial for us to make contact. Inquiries and suggestions should be sent to the Head, MeSH Section.

7. We have several staff (medical staff secretaries and others) whose physicians have asked them to get GRATEFUL MED and do searching for them. What kind of training would you recommend that these people receive since there is a long waiting list to receive full intermediary training?

The long waiting list for attending the Initial Online Services Training

Class is only true for those classes being held at NLM. Most of the classes being taught in off-site locations can be attended as long as the registration is received early enough. Because the intent of GRATEFUL MED (GM) is to bypass the requirement for training, users of the GM software may not find the Initial class to be applicable to them since no instruction on GM is included in the one-week course.

Effective July 1, 1986, the requirement to attend a training course prior to receiving an access code was eliminated. Nevertheless, we are encouraging anyone interested in searching to obtain some type of training. This can be accomplished in a variety of ways:

- a) Attending the Initial Online Services Training Class, or
- b) Attending the "Basics of Searching MEDLINE" (one-day workshops), or
- c) Purchasing and studying the Guide used in the "Basics of Searching MEDLINE" course.

Our goal remains to provide instruction for preparing skilled searchers. Attending a one-day workshop may be preferable to attending no training at all.

8. Now that many libraries are using NLM's subsets, such as mini-MEDLINE, for end-user searching we are beginning to get suggestions from faculty members for adding journals to these subsets that are not in MEDLINE. Many of these are in allied health disciplines. Is NLM interested in that kind of input from subset users as to additional journals?

We certainly are. Write to Carolyn B. Tilley, Head, MMS for all subset-related suggestions. MEDLARS Management Section will forward

journal title suggestions to the MeSH Section, which coordinates journal selection for MEDLINE indexing.

9. Are there plans to change the ELHILL software to accommodate users who prefer not to have to answer the "Y/N" prompt to continue printing?

The ELHILL architecture will not permit users to bypass this system prompt. It may be possible in the future to increase further the number of lines between these prompts (the current maximum the user may choose is 100 lines).

10. Could you comment on the apparently increasing practice of starting to index with volume 3 on various titles and whether it is feasible to pick up the first few volumes of the title -- maybe not print them in IM but have them available online?

Our policy has been that if we pick up a journal for indexing and its present issues are in volume 3 or volume 4, we will go back and pick up the earlier issues so that Index Medicus and MEDLINE will contain the complete run from volume 1 forward. Even if NLM does not currently hold the earlier volumes, we attempt to locate them from other sources such as the National Institutes of Health Library. If you know of any titles that we began indexing at volumes 3 or 4, of which volumes 1 or 2 are missing from MEDLINE or its backfiles, please submit them to the Head, Index Section. We will make every effort to prevent this from happening in the future.

11. I have had occasions when the requester would like specific subheadings, but would also like to see the general articles. Could you label those "general" or is there some

way to get these without excluding the others?

A technique for retrieving articles that print "up-front" in Index Medicus (this is the commonly accepted definition of a "general article" in MEDLINE) was published as a Monthly Search Hint in the April 1985 issue of the NLM Technical Bulletin. There are presently no plans to add some kind of "General" label to these citations.

12. I am interested in using TOXNET. I don't feel comfortable without training. Do you have any plans for a training program?

Training in TOXNET searching is available in both the Initial and the Advanced level training courses. In the Initial class, TOXNET is discussed on Thursday afternoon during Module II (Module I is required before taking Module II). During the Advanced class more time is devoted to TOXNET during Module III on Wednesday and Thursday of the class. Initial training is a prerequisite for the Advanced class. In addition, the Specialized Information Services training staff present training seminars on TOXNET at professional society meetings, e.g., American Chemical Society, Society of Toxicology. Their staff can be consulted about presenting these seminars at other information conferences as well.

13. Why not bring a similar session (TOXNET) demo here (i.e., MLA) for one half-day so that existing users can sit in a structured session since you bring it to specialized societies?

In 1987 an Initial Online Services Training Class will precede the MLA Annual Meeting (the week of May 11-15). If you have attended Module I or the entire Initial Training Class previously you may register for Module II of that class which discusses

TOXNET. The schedule of classes for 1987 and an application form will be published in the September 1986 NLM Technical Bulletin. Class size is limited.

14. Why can't you do the same thing for some of the Regional Meetings that are coming up? At present we are told we must get a class together in our city, organize the number of people without their knowing how much it's going to cost, and then find out how much it's going to cost after they have committed themselves and prorate the cost of the whole deal. That is awkward for many institutions.

As mentioned, during the fall 1986 Online Updates information concerning TOXNET will be presented and in a number of sites special TOXNET workshops will be held by the Regional Trainers.

Having NLM staff, i.e., MEDLARS Management and Specialized Information Services Staff present training programs at the Regional Meetings is not a feasible method of disseminating TOXNET information. In these days of budget cuts, NLM has neither the staff nor the funds to use for the travel required to adequately provide TOXNET training throughout the country. NLM is investigating other methods of decentralizing training which would not require so much staff time and travel.

15. I would like some clarification on your new policy for charging interest on bills 30 days past due. When does the 30 day period begin? The date at the head of the invoice?

When interest charging begins in January 1987, the 30 day period will begin the date the invoice is mailed out. However, from discussions with NTIS, there is an unofficial 15 days added on to the 30 day limit to allow

for the mailing of invoices from NTIS.

16. Were you also considering other government agencies, such as state agencies, which usually take six weeks for everything to be processed?

There is a federal law that requires NTIS and other government agencies to charge interest. NTIS has no choice but to comply with the law. You have the responsibility to alert your agency's business office to this new policy. We have the responsibility to produce billing tapes promptly and to make sure the invoices are promptly sent by NTIS.

17. Our experience has been that although we forward our payment and pay promptly, NTIS is consistently several months behind in crediting these payments.

We know this is a serious problem. We would like to know of specific instances of problems via an online comment or telephone call. We will try to follow up as best we can.

18. I have a question about training for trainers of Health Professionals. When will a schedule be available? Would it be possible to do it at Regional Meetings?

This year (May 1986), the training trainers' course, "Teaching MEDLINE to the Health Professional", was held in conjunction with the Annual Meeting in Minneapolis, MN, immediately upon conclusion of the conference. The National Library of Medicine will not conduct this training again as it has been picked up as part of the Regional Online Training and Information Centers' contractual obligations. Each of the Regional Training Centers will be providing two of these one-day sessions each year at various sites. Contact the Training Center which

serves your geographic region to obtain the dates for their scheduled 'training trainers' programs.

19. The HSDB has not been very popular with my users compared with Hazardline. Can you tell us what the schedule is for enhancement of the chemicals in HSDB?

In addition to regular updates for the HSDB, new information will be added to HSDB records by an express update process. Several express update contractors are scanning the literature for current information on HSDB chemicals. When they find relevant items, they enter the items into the appropriate HSDB record and the public file is updated with the new information.

Please keep in mind that HSDB is both scientifically reviewed and referenced. Emergency response and many other toxicology specialists find reviewed data very helpful.

For fact sheets and search aids, call Specialized Information Services, (301) 496-1131 or (301) 496-6531.

20. Would you comment on MEDLARS III?

The contract for Phase I of the MEDLARS III project, which involved the cataloging of monographs and selection and acquisitions activities at NLM, will be completed in September 1986. An update article on MEDLARS III will appear in a future issue of the Technical Bulletin.

21. Are we being charged for changing files? For instance, if you are in MEDLINE and go back to B83, are you being charged an additional charge for that? Some people told me there is an additional charge and I never saw it in the bill.

You probably incur a disk access when you issue a FILE command, so it might be a portion of a penny or something like that. In an OFFSEARCH we do not charge for the processing minutes, disk accesses, or characters. You pay \$1.00 for each database in an OFFSEARCH, plus page charges, but no additional online charge for changing files online is assessed.

22. Has anyone talked about the possibility of including within the standard PRT format the RF field so that review articles could be quickly identified?

The problem is with character charges. Does everybody want to pay for that field to spill out in a print default? [The audience's answer was a definite NO.]

23. Would it be possible for NLM to have "Review" as part of the title or source instead of having to add an extra field?

The suggestion is being submitted to the Index Section to consider adding [review] as a rubric behind the title of review articles, in the same way that [letter], [editorial], etc., are.

24. Are there imminent plans to publish the OSRM?

The 1986 NLM Online Services Reference Manual may now be ordered from the National Technical Information Service

(NTIS) for delivery in late September.

The order number is PB86-219672/GBB. The hardcopy U.S. and Canadian price is \$46.00 (\$92.00 foreign); a microfiche version costs \$23.00 (\$46.00 foreign). Please refer to the Technical Note titled, NLM Online Services Reference Manual, 1986, included in this issue for complete ordering information.

25. Will the TOXLINE® regeneration this summer create another file?

TOXLINE will be regenerated next spring or summer. We have not decided whether we will have two or three backfiles. If you have suggestions or questions, please call Jeanne Goshorn or Susan Hawk, Specialized Information Services, at (301) 496-1131.

26. Does NLM have any plans to issue GRATEFUL MED for another type of computer such as an Apple? We have quite a few users at our institution who have Apples at home. That seems to be quite popular besides the IBM.

This is the most frequently asked question by potential users. This feature is on the list of future enhancements, but we cannot give a specific date of availability. NLM is currently working on Version 2.0 of GRATEFUL MED; however, this version will not be Apple-compatible because rewriting the software to be machine-independent is a major effort. □

Searching Within A Single HSDB Record

Philip Wexler
Specialized Information Services, NLM

Databanks such as TOXNET's HSDB invite searching of a different nature from that of bibliographic databases. One such difference involves searching for data within a single retrieved record. In bibliographic files, if a strategy yields one posting, the user is not likely to refine the strategy further but will simply accept or reject the record in its entirety. If accepted, the next likely step would be to print the data fields of interest (e.g., author, title, source, abstract). Although a similar approach is possible in a file such as HSDB, the option of performing further searching within the retrieved record may be preferable in certain situations. The usefulness of this option is partially related to the relative lengthiness of HSDB records in comparison with typical bibliographic records. Furthermore, the 141 data fields currently in HSDB far exceed the number for a typical bibliographic file. Searchers of HSDB may know they are interested in certain data about a chemical but may not be sure in which fields this data resides. Although HSDB data fields have been organized for ease of retrieval, overlap in subject matter among fields is unavoidable. The following question illustrates two approaches to searching for information within a retrieved HSDB chemical record:

Question:

What respiratory effects have been tied to trichloroethylene?

Approach 1:

SS 1 /C?
USER: trichloroethylene (name)
SS (1) PSTG (1)

SS 2 /C?
USER: prt tox, toxv, seri, etc.

Discussion:

After retrieving the trichloroethylene record, the user must determine in which fields the concept of respiratory effects is likely to occur. This is not a totally obvious process. After selecting some likely fields, a print command will result in the display of all occurrences within each requested field. That is, information on respiratory effects might appear along with data unrelated to such effects and the user might need to scan through unrelated data in order to find the desired information.

Approach 2:

SS 1 /C?
USER: trichloroethylene (name)
SS (1) PSTG (1)

SS 2 /C?
USER: all respirat: or inhalation or
all lung: or all alveol: or
.... etc.
SS (2) PSTG (--lots--)

SS 3 /C?
USER: 1 and 2
SS (3) PSTG (1)

SS 4 /C?
USER: prt hits

Discussion:

Again, the user begins by retrieving the trichloroethylene record. However, now the entire HSDB file (i.e., all fields for all chemicals) is searched for words synonymous with or related to the concept of respiratory effects. The number of postings depends on which search terms are selected and how they are combined, but this number is likely to be large. When search statements 1 and 2 are combined, however, the user must, by virtue of the quality of the

AND operator, retrieve no more than 1 posting. If no respiratory effects were noted for trichloroethylene or if the user failed to choose appropriate synonyms, SS (3) would yield 0 postings. However, as long as there is at least one respiratory effect note in the trichloroethylene record, SS (3) will always yield exactly 1 posting. The PRT HITS command then permits the printing of only those occurrences in the trichloroethylene record in which the specified terms appear.

Different questions demand different search strategies and although the above discussions appear to favor the second approach, this will not always be so. The type of data sought is a primary consideration in determining an approach. Purely numeric information such as CPP category data would probably favor the former approach. Thus, to search for the pH of trichloroethylene, the only sensible method would be to enter PRT PH, after retrieving the chemical record. Another important consideration is whether a comprehensive or selective search is required. If just a brief rundown of respiratory effects was needed,

Approach 1 above could be adapted by simply typing PRT SERI. Approach 1 could also be restricted by printing only fields related to human effects, for instance. If the fields specified to print in Approach 1 did not contain any information related to the question, Approach 2 should definitely be tried.

Note: Approach 3, containing features not yet implemented, would be the best of all possible worlds. This hypothetical interaction is certainly an attractive alternative:

SS 1/C?

USER: trichloroethylene (name)

SS (1) PSTG (1)

SS 2/C?

USER: please give me exactly what i want

SS (2) PSTG (your wish is my command)

.....
 mental telepathy
 connection completed

SS 3/C?

USER: once again, perfect, noble machine. thank you□

GRATEFUL MED

[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Suggestions for this column are appreciated.]

Can I copy the downloaded retrieval from a search onto another disk or onto a file on my hard disk for further manipulation at a later time?

Yes, this is possible using the DOS copy command. You must first let GRATEFUL MED download the search in the usual manner and then exit from it. You will then be in DOS. The file that you will need to copy is called OUTPUT. When this file is copied onto another disk or to a different area on the hard disk, it may be manipulated as you wish using your own software.

For example:

FOR A TWO DISK DRIVE FLOPPY SYSTEM
(with GRATEFUL MED in Drive A and a formatted disk in drive B)

A> COPY OUTPUT B:ANYNAME

FOR A HARD DISK SYSTEM

C> COPY OUTPUT ANYNAME
(the file will be stored in the current subdirectory)

Name the file any name that you want -- just make sure it is not a name that currently belongs to another file and that it follows DOS naming conventions. (Using an existing file name will cause the old file to be overwritten by the new file.) We suggest naming the file with a unique

name which reflects the subject content of the search.

If you want to use these files with the GRATEFUL MED program at a later time, such as to print them using your printer and the GRATEFUL MED software, you may copy them back onto the GRATEFUL MED working copy. You must use the filename OUTPUT when copying back to GRATEFUL MED -- GRATEFUL MED will not recognize any alternate names.

For example:

FOR A TWO DISK FLOPPY SYSTEM

A> COPY B:ANYNAME A:OUTPUT

FOR A HARD DISK SYSTEM

(be sure you are in the GRATEFUL MED subdirectory)

C> COPY ANYNAME C:OUTPUT

□

How many copies of the GRATEFUL MED software have been sold to date?

As of August 8, NTIS reports having delivered 1,787 copies of GRATEFUL MED. □

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p. 3.
NLM ONLINE USERS MEETING, p. 1.

Monthly Search Hint

Midlands Online Region Hedges Save Time And Money

Helen-Ann Brown
Midlands Online Region

Hedges are cost-effective search aids which come in handy as today's budgets shrink and database searching costs rise. Hedges save time and money over individual term entry on subsequent searches. Using the SAVESEARCH procedure, synonyms of frequently used concepts can be "ORed" together to form a hedge. Then just one term can be used to name the hedge so that it can be recognized easily at a later time.

Plant "hedges" in the file in which they will be executed using the SAVESEARCH command. At SS 1 /C? type SAVESEARCH. Use OR to combine the synonyms. When all terms have been entered, type FINISHED. At the SEARCHNAME cue, name the hedge in a way that will identify it uniquely. The hedge is now ready for execution; in fact, this hedge may be used during the very session after the SAVESEARCH procedure is completed. To use the hedge in later search sessions, just type in the name of the hedge with the qualifier (SN) after it. This savesearch is saved in the UUSF (Unified User Specifications File) at no cost and will remain there until it is deleted. Periodically check the amount of space in the UUSF using the SAVE LIST command. The amount of free space should never fall below 10%.

The Midlands Online Region has developed some useful hedges to use in TOXLINE and its backfiles (which now average about \$95.00 per hour to search during prime time). The hedges listed below were created by the participants of the MEDLARS Initial

Training classes during 1985. In order to demonstrate the cost-effectiveness of hedges, each was entered in the TOXLINE file during prime time. The cost of input and search time was noted. Then the SAVESEARCH hedge was executed during prime time, with the cost and time noted. All times and costs are estimates. The amount of space each hedge occupies in the UUSF area is also listed in Figure 1. From the cost chart it is clear that using the SAVESEARCH hedge saves time and money.

[Editor's note: Hedges should always be constructed with the individual searcher's own needs in mind. Those listed below should not be considered to be NLM authoritative hedges for these concepts. Some searchers may wish to modify them in a variety of ways in order to meet their own needs. The rule-of-thumb in creating hedges is to always be sure that the synonyms chosen are those that fit the particular need.

In the following examples, the name of the hedge is followed by the textwords suggested for searching that concept]

INFANT

Embryo or Embryonic or Fetus or Foetus or Fetal or Foetal or Perinatal or Prenatal or Neonate or Neonates or Neonatal or Newborn or Newborns or Baby or Babies or Infant or Infants or Infancy or Multiple and All Birth# or Twin or Twins or Triplet or Triplets or All Quadruplet# or All Quintuplet#

CHILD

Child or Children or Childhood or Boy or Boys or Girl or Girls or Juvenile or Juveniles or Youth or Youths or Pediatric or Pediatrics or Paediatric or Paediatrics

TEEN

All Adolescent# or Adolescence or All Teen# or Teenage or All Teenager#

OLD

Aged or Old and Age or Elderly or Geriatric or Geriatrics

MAN

Man or Men or Male or Males

WOMAN

Woman or Women or Female or Females

PREGNANT

Pregnant or Pregnancy or Pregnancies or All Trimester# or Fertility or Birth

DEFECT

Infertile or Infertility or Sterility or Abortion or Abortions or Miscarry or Miscarried or Miscarriage or Miscarriages or Stillbirth or Stillbirths or Stillborn or Abnormality or Abnormalities or Birth and All Defect# or Congenital and All Defect# or Chromosomal and All Aberration# or Teratogenic or Mutagenic

HEART

Heart or Coronary or Aortocoronary or Cardiac or Cardiogenic or Cardiomyopathy or Cardiomyopathies or Endocardial or Endocarditis or Pericardial or Pericarditis or Angina or Anginal or Tachycardia or Tachycardiac or Bradycardia or Bradycardiac or Wolff and Parkinson and White or WPW or Arrhythmia or Long and QT or Atrial and Fibrillation or Atrial and Fibrillating or Atrial and Flutter or Murmur.

LUNG

Pulmonary or Respiratory or Lung or Lungs or Airway or Airways or Bronchi or Bronchus or Bronchial or Bronchogenic or Bronchospasm or Bronchospastic or Asthma or Asthmatic or Asthmatics or Emphysema or COPD or Tuberculosis or TB or Pneumonia

LIVER

Liver or Portal or Hepatic or Hepatitis or Hepatoma or Bile or Jaundice

KIDNEY

Kidney or Kidneys or Renal or Nephritic or Nephrosis or Nephroses or Nephropathy or Nephropathies or Glomerulonephritis

NERVE

CNS or Central and Nervous and System or Cerebrospinal or Nerve or Nervous or Neuron or Neurons or Neural or Neurotoxic or Neurotoxicity or Synapse or Synaptic

BRAIN

Brain or Cerebrum or Cerebral or Cerebellum or Cerebellar or Cerebrovascular

MENTAL

Mental or Mentally or Behave or Behaves or Behaved or Behavior or Behaviors or Behavioral or Behaviorally or Behaviour or Behavioural or Emotion or Emotions or Emotional or Personality or Psychology or Psychologic or Psychological or Psychometric or Psychomotor or Psychopathology or Psychopathological or Schizophrenia or Schizophrenics or Paranoid or Dementia or Alzheimer or Alzheimers or Depression or Depressive

CLOT

Embolism or Emboli or Thromboembolism or Thromboembolic or Thrombus or Thrombi or Thrombotic or Thrombosis or Thrombosed or Phlebitis or Thrombophlebitis or All Clot: or Occlude or Occluded or Occlusion

CIRCULATION

Circulation or Aorta or Artery or Arteries or Arterial or Vein or Veins or Venous or Asystole or Systole or Systolic or Diastole or Diastolic

STEROID

All Steroid# or All Glucocorticosteroid# or Cortisone or 53-06-5 or Cortisol or Hydrocortisone or 50-23-7 or Prednisone or 53-03-2 53-03-2 or Prednisolone or 50-24-8 or Methylprednisolone or 83-43-2 or Beclomethasone or 4419-39-0

KINETIC

Kinetic or Kinetics or
Pharmacokinetics or Pharmacokinetic or
Metabolism or Metabolic

BIOAVAIL

Elimination or Reabsorption or
Distribution or Secretion or
Adsorption or Solubility or
Bioavailable or Bioavailability or
Biotransformation or Clearance or
Half-life or Half and Life

CANCER

Cancer or Cancers or Cancerous or
Neoplasm or Neoplasms or Neoplasia or
Neoplastic or Adenocarcinoma or
Carcinogen or Carcinogens or
Carcinogenesis or Carcinoma

MALIGNANT

Sarcoma or Sarcomas or
Rhabdomyosarcoma or Neuroblastoma or
Leiomyoma or Preleukemia or
Preleukemic or Leukemia or Malignant
or Malignancy or Malignancies or
Metastasis or Metastases or
Metastasize or Metastasized or
Oncogene or Oncogenes or Oncogenic or
Oncologic

IMMUNE

Immunology or Immune or Immunologic or
Immunity or Autoimmune or
Immunodeficient or Immunodeficiency or
Immunodeficiencies or
Immunocompromised

IMMUNOGLOBULIN

Immunoglobulin or Immunoglobulins or
IGG or IGG4 or IGE or IGM or IGA or
IGD

ALLERGY

Allergic or Allergy or Allergies or
Hypersensitivity or Hypersensitive or
Hypersensitivities or Sensitive or
Sensitivities or Antigen or Antigens
or Antigenic

ANTIBODY

Antibody or Antibodies or Gamma and
All Globulin# or All Gammaglobulin# or
Autoantibody or Autoantibodies

LEUKOCYTE

Leukocytes or Leukocyte or Leucocyte
or Leucocytes or Neutrophil or
Neutrophils or Granulocyte or
Granulocytes or Macrophage or
Macrophages

ANAPHYLAXIS

Arachidonic or All SRS#A or
Leukotriene or Leukotrienes or
Anaphylactic or Anaphylaxis or
Interferon or Lymphokine or
Lymphokines

VACCINE

All Innoculation# or Inoculate or All
Immunization# or Immunize or All
Vaccine# or All Vaccinate# or All
Vaccination#

WORK

Occupational or Occupation or
Employment or Employee or Employees or
Industrial or Warehouse or Workshop or
Workshops or Workstation or
Workstations or Work and All Station#
or Workplace or Factory or Factories
or all Ergonomic;

ENVIRONMENT

Exposed or Exposure or Environment or
Environmental or Enviroments or
Surroundings or Atmosphere or
Atmospheric or Climate or Weather or
Acid and Rain or Ozone

ASBESTOS

Asbestos or Asbestosis or Silica or
Silicosis or Brown and Lung or Black
and Lung or Pneumoconiosis

FUME

Emissions or Fume or Fumes or
Radioactive and Waste or Hazardous and
Waste or Toxic and Waste or Landfill
or Landfills or Sludge or Noise or
Noises

STATS

Survey or Surveys or Statistics or
Statistical or Epidemiologic or
Epidemiological or Cross and Section
or Sampling or Mass and Screening or
Prospective or Retrospective □

Cost and time figures for inputting and executing hedges

| <u>HEDGE NAME</u> | <u>Entry Time</u> | <u>Entry Cost</u> | <u>Execute Time</u> | <u>Execute Cost</u> | <u>% of File Used</u> |
|-------------------|-------------------|-------------------|---------------------|---------------------|-----------------------|
| Infant | 4 min | \$ 5.78 | 1 min | \$ 1.59 | 7% |
| Child | 2 min | \$ 2.65 | 0 min | \$.48 | 5% |
| Teen | 2 min | \$ 2.12 | 0 min | \$.33 | 2% |
| Old | 2 min | \$ 2.33 | 0 min | \$.78 | 3% |
| Man | 1 min | \$ 1.56 | 0 min | \$.76 | 2% |
| Woman | 1 min | \$ 1.44 | 0 min | \$.66 | 2% |
| Pregnant | 2 min | \$ 2.10 | 0 min | \$.59 | 3% |
| Defect | 3 min | \$ 3.75 | 0 min | \$.70 | 7% |
| Heart | 5 min | \$ 6.09 | 1 min | \$ 1.38 | 11% |
| Lung | 3 min | \$ 3.85 | 1 min | \$.90 | 8% |
| Liver | 1 min | \$ 1.58 | 0 min | \$.69 | 3% |
| Kidney | 2 min | \$ 2.36 | 0 min | \$.52 | 5% |
| Nerve | 3 min | \$ 4.01 | 0 min | \$.95 | 5% |
| Brain | 1 min | \$ 1.50 | 0 min | \$.42 | 3% |
| Mental | 4 min | \$ 4.41 | 0 min | \$.75 | 10% |
| Clot | 2 min | \$ 2.82 | 0 min | \$.48 | 6% |
| Circulation | 2 min | \$ 2.22 | 0 min | \$.54 | 4% |
| Steroid | 4 min | \$ 4.17 | 0 min | \$.67 | 6% |
| Kinetic | 2 min | \$ 2.33 | 0 min | \$.81 | 3% |
| Bioavail | 4 min | \$ 4.71 | 1 min | \$ 1.23 | 5% |
| Cancer | 3 min | \$ 3.93 | 1 min | \$ 1.16 | 5% |
| Malignant | 3 min | \$ 3.28 | 0 min | \$.56 | 6% |
| Immune | 3 min | \$ 3.12 | 0 min | \$.54 | 4% |
| Immunoglobulin | 2 min | \$ 2.17 | 0 min | \$.37 | 4% |
| Allergy | 2 min | \$ 2.24 | 0 min | \$.66 | 5% |
| Antibody | 2 min | \$ 2.78 | 0 min | \$.52 | 4% |
| Leukocyte | 2 min | \$ 1.95 | 0 min | \$.46 | 4% |
| Anaphylaxis | 2 min | \$ 2.26 | 0 min | \$.41 | 3% |
| Vaccine | 1 min | \$ 1.63 | 0 min | \$.35 | 3% |
| Work | 3 min | \$ 4.28 | 1 min | \$ 1.18 | 7% |
| Environment | 3 min | \$ 3.96 | 1 min | \$ 1.70 | 5% |
| Asbestos | 2 min | \$ 2.58 | 0 min | \$.48 | 3% |
| Fume | 2 min | \$ 2.57 | 0 min | \$.81 | 4% |
| Stats | 2 min | \$ 2.58 | 0 min | \$.89 | 5% |

Figure 1

Serials Update

INDEXED TITLES UPDATE, AUGUST 1986

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last

UPDATE. More detailed information about each title may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, JULY 1986

- | | |
|---|--|
| <p>POP AMERICAN SOCIOLOGICAL REVIEW AM SOCIOL REV 1,1936-- AMERICAN SOCIOLOGICAL ASSOCIATION NEW YORK UNITED STATES INDEXING FOR IM CEASED WITH V49N3,1984. W1 AM808 0003-1224 A25845000 JTC: 433 AMERICAN SOCIOLOGICAL ASSOCIATION, 1722 'N' STREET NW, WASHINGTON DC 20036</p> | <p>POP CHILDREN IN THE TROPICS CHILD TROP N56,1969-- INTERNATIONAL CHILDRENS CENTRE PARIS FRANCE EDITED BY THE INSTITUT DE PEDIATRIE SOCIALE, UNIVERSITE DE DAKAR AND THE INTERNATIONAL CHILDRENS CENTRE, PARIS. TRANSLATION OF L ENFANT EN MILIEU TROPICAL. W1 CH694R C18440000 JTC: CDR CHATEAU DE LONGCHAMP,BOIS DE BOULOGNE, 75016 PARIS</p> |
| <p>POP BIOLOGY AND SOCIETY BIOL SOC 1N1,MAR 1984-- EUGENICS SOCIETY LONDON ENGLAND JOURNAL OF THE EUGENICS SOCIETY. CONTINUES: BULLETIN / THE EUGENICS SOCIETY, WHICH IS NOT IN THE NLM COLLECTION. IN PROCESS 0266-3880 SR0057181 JTC: A4M EUGENICS SOCIETY,69 ECCLESTON SQUARE,LONDON SW1V 1PJ,ENGLAND</p> | <p>POP DEMOGRAPHY INDIA DEMOGR INDIA 1,OCT 1972-- HINDUSTAN PUBLISHING DELHI INDIA THIS TITLE IS NOT IN THE NLM COLLECTION. PIP SR0057469 JTC: ECU</p> |
| <p>POP BRITISH JOURNAL OF FAMILY PLANNING BR J FAM PLANN 1,1975?-- NATIONAL ASSOCIATION OF FAMILY PLANNING DOCTORS LONDON ENGLAND CONTINUES: JOURNAL OF FAMILY PLANNING DOCTORS. OFFICIAL JOURNAL OF THE NATIONAL ASSOCIATION OF FAMILY PLANNING DOCTORS. W1 BR531 0144-8625 B34710000 JTC: AXW NATIONAL ASSOCIATION OF FAMILY PLANNING DOCTORS, 27 SUSSEX PLACE, REGENTS PARK, LONDON NW1 4RG, ENGLAND</p> | <p>POP DEMOSTA DEMOSTA 1968-- FEDERAL STATISTICAL OFFICE-DEMOGRAPHIC INSTITUTE PRAHA CZECHOSLOVAKIA THIS TITLE IS NOT IN THE NLM COLLECTION. PIP 0011-8338 SR0057470 JTC: EC4</p> |

- IDL DENTIST
DENTIST
1N1,JAN 1985--
STEVENS PUBLISHING
WACO TX
W1 DE427
SR0053523
UNITED STATES
0887-5669
JTC: D57
- POP EKISTICS: THE PROBLEMS AND SCIENCE OF HUMAN SETTLEMENTS
EKISTICS
4,OCT 1957--
ATHENS CENTER OF EKISTICS
ATHENS GREECE
CONTINUES: TROPICAL HOUSING AND PLANNING MONTHLY BULLETIN.
W1 EK22 0013-2942
E04240000 JTC: EEP
ATHENS CENTER OF EKISTICS OF THE, ATHENS TECHNOLOGICAL ORGANIZATION, 24 STRAT. SYNDESMOU ST., 10673 ATHENS GREECE
- POP ESTUDIOS DE POBLACION
ESTUD POBLACION
1,1976--
ASOCIACION COLOMBIANA PARA EL ESTUDIO DE LA POBLACION
BOGOTA COLOMBIA
W1 ES965
E13665000 JTC: ELQ
- POP EUROPEAN JOURNAL OF POPULATION
EUR J POPUL
1N1,JAN 1985--
ELSEVIER SCIENCE PUBLISHERS, NORTH-HOLLAND AMSTERDAM NETHERLANDS
CONTINUES: EUROPEAN DEMOGRAPHIC INFORMATION BULLETIN.
W1 EU72EC 0168-6577
SR0053525 JTC: EOT
- POP FAMILY RELATIONS
FAM RELAT
29,1980--
NATIONAL COUNCIL ON FAMILY RELATIONS
MINNEAPOLIS MN UNITED STATES
CONTINUES: FAMILY COORDINATOR.
W1 FA454H 0197-6664
F01150000 JTC: ERQ
NATIONAL COUNCIL ON FAMILY RELATIONS,
1219 UNIVERSITY AVE. SE, MINNEAPOLIS MN 55414
- POP GENUS
GENUS
1,1935--
COMITATO ITALIANO PER LO STUDIO DEI PROBLEMI DELLA POPOLAZIONE
ROME ITALY
SOCIETA ITALIANA DI GENETICA ED EUGENICA
TEXT IN ITALIAN, FRENCH OR ENGLISH.
W1 GE357 0016-6987
G05000000 JTC: FN8
COMITATO ITALIANO PER LO STUDIO DEI,PROBLEMI DELLA POPOLAZIONE,VIA NOMENTANA,41-00161 ROMA - VERSAMENTI,C/C P. 34345009,ITALY
- POP INTERNATIONAL DEMOGRAPHICS
INT DEMOGR
1N1,APR 1982--
AMERICAN DEMOGRAPHICS
ITHACA NY UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
PIP 0731-5414
SR0057473 JTC: HDH
- POP INTERNATIONAL FAMILY PLANNING PERSPECTIVES
INT FAM PLANN PERSPECT
5,1979--
ALAN GUTTMACHER INSTITUTE FOR THE PLANNED PARENTHOOD FEDERATION OF AMERICA, FAMILY PLANNING INTERNATIONAL ASSISTANCE DIVISION
NEW YORK UNITED STATES
CONTINUES: INTERNATIONAL FAMILY PLANNING PERSPECTIVES AND DIGEST. SUPPORTED BY THE U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT.
W1 IN748MAT 0190-3187
I25730000 JTC: GGU
ALAN GUTTMACHER INSTITUTE, 515 MADISON AVE., NEW YORK NY 10022
- HLI INTERNATIONAL JOURNAL OF HEALTH PLANNING AND MANAGEMENT
INT J HEALTH PLANN MANAGE
1N1,NOV 1985--
JOHN WILEY
CHICHESTER ENGLAND
INDEXING BEGAN WITH V1N1,1985.
W1 IN767R 0749-6753
SR0053859 JTC: IER
- POP INTERNATIONAL MIGRATION
INT MIGR
1N1,1963--
INTERGOVERNMENTAL COMMITTEE FOR MIGRATION
GENEVA SWITZERLAND
THIS TITLE IS NOT IN THE NLM COLLECTION.
PIP 0020-7985
SP0057474 JTC: HDI
- POP INTERNATIONAL MIGRATION REVIEW
INT MIGR REV
1,FALL 1966--
CENTER FOR MIGRATION STUDIES OF NEW YORK
NEW YORK UNITED STATES
SUPERSEDES INTERNATIONAL MIGRATION DIGEST. SPONSORED BY THE SOCIETY OF ST. CHARLES AND THE AMERICAN COMMITTEE ON ITALIAN MIGRATION. SUMMARIES IN FRENCH, GERMAN, AND SPANISH.
W1 IN825 0197-9183
I28900000 JTC: HET
CENTER FOR MIGRATION STUDIES,209 FLAGG PL,STATEN ISLAND NY 10304

POP JOURNAL OF COMPARATIVE FAMILY STUDIES
 J COMP FAM STUD
 1,1970--
 UNIVERSITY OF CALGARY. DEPARTMENT OF
 SOCIOLOGY
 CALGARY CANADA
 WI J0594H 0047-2328
 J17480000 JTC: IA3
 UNIVERSITY OF CALGARY,DEPARTMENT OF
 SOCIOLOGY,2500 UNIVERSITY DR.,CALGARY
 ALBERTA T2N 1N4,CANADA

POP PHILIPPINE POPULATION JOURNAL
 PHILIPP POPUL J
 1N1,1985--
 COMMISSION ON POPULATION AND THE
 DEMOGRAPHIC RESEARCH AND DEVELOPMENT
 FOUNDATION
 MANILA PHILIPPINES
 THIS TITLE IS NOT IN THE NLM COLLECTION.
 PIP
 SR0057111 JTC: PIS

HLI JOURNAL OF COMPLIANCE IN HEALTH CARE
 J COMPLIANCE HEALTH CARE
 1N1,SPRING 1986--
 SPRINGER
 NEW YORK UNITED STATES
 INDEXING BEGAN WITH V1N1 SPRING 1986.
 IN PROCESS 0887-6509
 SR0054822 JTC: HVD

POP PLANNED PARENTHOOD REVIEW
 PLANN PARENTHOOD REV
 1N1,SPRING 1981--
 PLANNED PARENTHOOD FEDERATION OF AMERICA
 NEW YORK UNITED STATES
 THIS TITLE IS NOT IN THE NLM COLLECTION.
 PIP 0275-5122
 SR0057461 JTC: PAX

POP JOURNAL OF FAMILY HISTORY
 J FAM HIST
 1976--
 JAI PRESS
 GREENWICH CT UNITED STATES
 WI J06443R 0363-1990
 J21080000 JTC: IAP

POP POPULATION EDUCATION NEWS
 POPUL EDUC NEWS
 1973?--
 HARYANA BRANCH OF FAMILY PLANNING
 ASSOCIATION OF INDIA
 CHANDIGARH INDIA
 THIS TITLE IS NOT IN THE NLM COLLECTION.
 PIP
 SR0057509 JTC: PBF

HLI JOURNAL OF HEALTHCARE EDUCATION AND TRAINING
 J HEALTHC EDUC TRAIN
 1N1,SUMMER 1986--
 AMERICAN SOCIETY FOR HEALTHCARE EDUCATION
 OF THE AMERICAN HOSPITAL ASSOCIATION
 CHICAGO UNITED STATES
 INDEXING BEGAN WITH V1N1,SUMMER 1986.
 IN PROCESS
 SR0057394 JTC: JOH

POP POPULATION GEOGRAPHY
 POPUL GEOGR
 1N1,1978?--
 ASSOCIATION OF POPULATION GEOGRAPHERS OF
 INDIA
 CHANDIGARH INDIA
 PIP
 SR0056604 JTC: PBG

POP MALAYSIAN JOURNAL OF REPRODUCTIVE HEALTH
 MALAYS J REPROD HEALTH
 19??--
 REPRODUCTION RESEARCH CENTRE AND MALAYSIAN
 ASSOCIATION OF MATERNAL AND NEONATAL HEALTH
 KUALA LUMPUR MALAYSIA
 THIS TITLE IS NOT IN THE NLM COLLECTION.
 PIP
 SR0057475 JTC: MBS

POP POPULATION STUDIES
 POPUL STUD (CAMB)
 1,1947--
 POPULATION INVESTIGATION COMMITTEE
 LONDON ENGLAND
 WI P0675 0032-4728
 P19900000 JTC: PNR
 POPULATION INVESTIGATION COMMITTEE, C/O
 LONDON SCHOOL OF ECONOMICS, HOUGHTON
 ST,LONDON WC2A 2AE, ENGLAND

POP MIGRATION TODAY
 MIGR TODAY
 1N1,SEP 1973--
 CENTER FOR MIGRATION STUDIES OF NEW YORK
 STATEN ISLAND NY UNITED STATES
 THIS TITLE IS NOT IN THE NLM COLLECTION.
 PIP 0197-9175
 SR0057476 JTC: NDP

INI REVISTA CUBANA DE ENFERMERIA
 REV CUBANA ENFERM
 1N1,JAN-APR 1985?--
 CENTRO NACIONAL DE INFORMACION DE CIENCIAS
 MEDICAS
 HABANA CUBA
 IN PROCESS
 SR0056875 JTC: RNM

POP SOCIAL SCIENCE QUARTERLY
 SOC SCI Q
 1, JUN 1982--
 UNIVERSITY OF TEXAS PRESS
 AUSTIN TX UNITED STATES
 THIS TITLE IS NOT IN THE NLM COLLECTION.
 PIP 0038-4941
 SR0057464 JTC: UT6

POP UFSI REPORTS
 UFSI REP
 N1, 1982--
 UNIVERSITIES FIELD STAFF INTERNATIONAL
 HANOVER NH UNITED STATES
 THIS TITLE IS NOT IN THE NLM COLLECTION.
 PIP 0743-9644
 SR0057463 JTC: WLR

TITLE CHANGES, JULY 1986

IM ARCHIWUM HISTORII MEDYCYNY
 Arch Hist Med (Warsz)
 20, 1957-48N2, 1985
 PANSTOWY ZAKLAD WYDAWNICTW LEKARSKICH
 WARSZAWA POLAND
 CONTINUES ARCHIWUM HISTORJI I FILOZOFJI
 MEDYCYNY. CONTINUED BY: ARCHIWUM HISTORII
 I FILOZOFII MEDYCYNY.
 W1 AR7553 0004-0762
 A65130000 JTC: 753

HLI HOSPITAL PURCHASING MANAGEMENT
 HOSP PURCH MANAGE
 1, MAY 1976-V11N2, APR 1986
 HOSPITAL PURCHASING INSTITUTE
 LEXINGTON MA UNITED STATES
 CONTINUED BY: HOSPITAL MATERIALS MANAGEMENT.
 W1 H0871P
 H19940000 JTC: GB6

IM ARCHIWUM HISTORII I FILOZOFII MEDYCYNY
 ARCH HIST FILOZ MED
 48N3, 1985--
 PANSTOWY ZAKLAD WYDAWNICTW LEKARSKICH
 WARSZAWA POLAND
 CONTINUES: ARCHIWUM HISTORII MEDYCYNY.
 W1 AR7552 0860-1844
 SR0057336 JTC: 75F

IM JOURNAL OF APPLIED BIOCHEMISTRY
 J APPL BIOCHEM
 1, FEB 1979-7N6, DEC 1985
 ACADEMIC PRESS UNITED STATES
 NEW YORK
 CONTINUED BY: BIOTECHNOLOGY AND APPLIED
 BIOCHEMISTRY.
 INDEXING BEGAN WITH V5N1, 1983.
 W1 J0539V 0161-7354
 J12805000 JTC: HEA

IM BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY
 BIOTECHNOL APPL BIOCHEM
 8N1, FEB 1986--
 ACADEMIC PRESS
 NEW YORK UNITED STATES
 CONTINUES: JOURNAL OF APPLIED BIOCHEMISTRY.
 IN PROCESS 0885-4513
 SR0057517 JTC: AHF

IM QUARTERLY REVIEWS ON DRUG METABOLISM AND
 DRUG INTERACTIONS
 Q REV DRUG METAB DRUG INTERACT
 3N1/2, 1980-5N1, 1984
 FREUND
 LONDON ENGLAND
 CONTINUES: REVIEWS ON DRUG INTERACTIONS.
 CONTINUED BY: REVIEWS ON DRUG METABOLISM
 AND DRUG INTERACTIONS.
 INDEXING BEGAN WITH V4N1, 1982.
 W1 QU526H 0334-2190
 Q02610000 JTC: RCF

HLI HOSPITAL MATERIALS MANAGEMENT
 HOSP MATER MANAGE
 11N3, MAR 1986--
 CHI PUBLICATIONS
 ANN ARBOR MI UNITED STATES
 CONTINUES: HOSPITAL PURCHASING MANAGEMENT.
 ON ORDER-TITLECHANGE 0163-1322
 SR0057396 JTC: HOS

IM REVIEWS ON DRUG METABOLISM AND DRUG
 INTERACTIONS
 REV DRUG METABOL DRUG INTERACT
 V5N2-3, 1985--
 FREUND
 LONDON ENGLAND
 CONTINUES: QUARTERLY REVIEWS ON DRUG
 METABOLISM AND DRUG INTERACTIONS.
 W1 RE257K
 SR0057311 JTC: RR8

TITLES NO LONGER INDEXED AS OF JULY 1986

| | | | |
|---|---|--|---|
| <p>IM ADVANCES IN BIOLOGICAL AND MEDICAL PHYSICS Adv Biol Med Phys 1,1948-17,1980 ACADEMIC PRESS NEW YORK W1 AD439 A13260000</p> | <p>UNITED STATES 0065-2245 JTC: 2IK</p> | <p>IDL FO. FACULTAD DE ODONTOLOGIA FO 3,1976-? FACULTAD DE ODONTOLOGIA MEXICO CONTINUES: ENO FO. ON ORDER F07515000</p> | <p>MEXICO JTC: EXC</p> |
| <p>IM CELL AND MUSCLE MOTILITY CELL MUSCLE MOTIL 1,1981-6,1985 PLENUM PRESS NEW YORK INDEXING BEGAN WITH V3,1983. W1 CE127 C10789000</p> | <p>UNITED STATES 0730-9554 JTC: CMM</p> | <p>IM RADIATION RESEARCH. SUPPLEMENT RADIAT RES (SUPPL) 1,1959-8,1985 ACADEMIC PRESS NEW YORK VOL. FOR 1985 ISSUED AS PT.2 OF RADIATION RESEARCH V.104,NO.2. W1 RA1661 R00700000</p> | <p>UNITED STATES 0485-8611 JTC: QMQ</p> |
| <p>IM VIROLOGY MONOGRAPHS Viro1 Monogr 1,1968-18,1981 SPRINGER VERLAG NEW YORK SUPERSEDES HANDBOOK OF VIRUS RESEARCH. W1 VI83 V07980000</p> | | <p>UNITED STATES 0083-6591 JTC: XDW</p> | |

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES, JULY 1986

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH, and POPLINE are listed in the "INDEXED TITLES UPDATE" section. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill

loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if know. Information provided is not authorized NLM cataloging data. For further information contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ADVANCES IN PEDIATRIC INFECTIOUS DISEASES
1,1986--
YEAR BOOK MEDICAL PUBLISHERS
CHICAGO
ON ORDER
SR0057361
UNITED STATES
YEAR BOOK MEDICAL PUBLISHERS INC.,35 E.
WACKER DR.,CHICAGO IL 60601

AMERICAN JOURNAL OF HEALTH PROMOTION
1N1,JUN 1986--
SYRACUSE NY
ON ORDER
SR0057415
UNITED STATES
\$36.00
AMERICAN JOURNAL OF HEALTH
PROMOTION,P.O. BOX 6646,SYRACUSE NY 13217

APHASIOLOGY
 1N1,1987--
 TAYLOR AND FRANCIS
 LONDON ENGLAND
 ON ORDER
 SR0057430 \$100.00
 TAYLOR AND FRANCIS,RANKINE
 ROAD,BASINGSTOKE HANTS RG24 OPR,ENGLAND

CLINICAL AND EXPERIMENTAL OPTOMETRY
 69N1,JAN 1986?--
 AUSTRALIAN OPTOMETRICAL ASSOCIATION
 VICTORIA AUSTRALIA
 OFFICIAL JOURNAL OF THE AUSTRALIAN
 OPTOMETRICAL ASSOCIATION. CONTINUES:
 AUSTRALIAN JOURNAL OF OPTOMETRY.
 IN PROCESS
 SR0057278
 AUSTRALIAN OPTOMETRICAL ASSOCIATION,204
 DRUMMOND STREET,P.O. BOX 185,CARLTON
 SOUTH,VICTORIA 3053,AUSTRALIA

CLINICAL LABORATORY MANAGEMENT REVIEW
 1,1987--
 WILLIAMS AND WILKINS
 BALTIMORE UNITED STATES
 ON ORDER
 SR0057405 \$39.00

CLINICAL LINGUISTICS AND PHONETICS
 1,1987--
 TAYLOR AND FRANCIS
 BASINGSTOKE ENGLAND
 ON ORDER
 SR0057437 \$45.00
 TAYLOR AND FRANCIS LTD,RANKINE
 ROAD,BASINGSTOKE HANTS RG24 OPR,ENGLAND

CLINICAL NEUROPSYCHOLOGIST
 1,1987--
 SWETS
 LISSE NETHERLANDS
 ON ORDER
 SR0057331 \$77.50
 SWETS PUBLISHING SERVICE,HEEREWEG
 347,2161 CA LISSE,THE NETHERLANDS

CLINICAL NURSE SPECIALIST
 1,JAN 1987--
 WILLIAMS AND WILKINS
 BALTIMORE UNITED STATES
 ON ORDER
 SR0057381 \$45.00

CONTEMPORARY ISSUES IN OBSTETRICS AND
 GYNECOLOGY
 1,1986--
 CHURCHILL LIVINGSTONE
 NEW YORK UNITED STATES
 CATALOGING IN PUBLICATION.
 ON ORDER
 SR0057358

CURRENT RESEARCH UPDATES IN OBSTETRICS AND
 GYNECOLOGY
 1,1985--
 CRU
 BELLINGHAM WA UNITED STATES
 ON ORDER
 SR0057349 \$125.00
 CRU PUBLISHING,P.O. BOX 2831,BELLINGHAM
 WA 98227

CURRENT REVIEWS IN PAEDIATRICS
 1,1985--
 CHURCHILL LIVINGSTONE
 EDINBURGH SCOTLAND
 IN PROCESS
 SR0057280

FOOD BIOTECHNOLOGY
 1,1987--
 MARCEL DEKKER
 NEW YORK UNITED STATES
 ON ORDER
 SR0057417 \$175.00
 MARCEL DEKKER,279 MADISON AVENUE,NEW
 YORK NY 10016

FUNDAMENTAL AND CLINICAL PHARMACOLOGY
 1,1987--
 ELSEVIER
 PARIS FRANCE
 ON ORDER
 SR0057257 \$144.00
 EDITIONS SCIENTIFIQUES ELSEVIER,91 RUE
 DE RENNES,75006 PARIS,FRANCE

IN VITRO TOXICOLOGY / JOURNAL OF MOLECULAR
 AND CELLULAR TOXICOLOGY
 1,1987--
 MARY ANN LIEBERT
 NEW YORK UNITED STATES
 ON ORDER
 SR0057384 \$90.00
 MARY ANN LIEBERT INC.,157 EAST 87TH
 STREET,NEW YORK NY 10028

INTERNATIONAL REVIEW OF INDUSTRIAL AND
 ORGANIZATIONAL PSYCHOLOGY
 1986--
 JOHN WILEY AND SONS
 NEW YORK UNITED STATES
 IN PROCESS
 SR0057357

JOURNAL OF THE AMERICAN COLLEGE OF
 NEUROPSYCHIATRISTS
 1N1,SPRING 1986--
 AMERICAN COLLEGE OF NEUROPSYCHIATRISTS
 BIRMINGHAM MI UNITED STATES
 IN PROCESS
 SR0057344 \$12.00
 AMERICAN COLLEGE OF NEUROPSYCHIATRISTS,ED
 ITORIAL DEPARTMENT,30400 TELEGRAPH,SUITE
 133,BIRMINGHAM MI 48010

JOURNAL OF ANXIETY DISORDERS
 1,1987--
 PERGAMON PRESS
 ELMSFORD NY
 ON ORDER
 SR0057419
 UNITED STATES
 \$75.00

JOURNAL OF CLINICAL BIOCHEMISTRY AND
 NUTRITION
 1,1986--
 MARUZEN
 TOKYO
 ON ORDER
 SR0057376
 MARUZEN CO. INC.,P.O. BOX 5050,TOKYO
 103,JAPAN
 JAPAN
 \$120.00

JOURNAL OF FAMILY PSYCHOLOGY
 1,SEP 1987--
 SAGE
 BEVERLY HILLS CA
 ON ORDER
 SR0057377
 SAGE PUBLICATIONS,275 SOUTH BEVERLY
 DRIVE,BEVERLY HILLS CA 90212
 UNITED STATES
 \$70.00

JOURNAL OF HEAD TRAUMA REHABILITATION
 1,1986--
 ASPEN
 ROCKVILLE MD
 ON ORDER
 SR0057410
 UNITED STATES
 \$60.00

LASER NURSING
 1,1985--
 MARY ANN LIEBERT
 NEW YORK
 ON ORDER
 SR0057383
 MARY ANN LIEBERT,157 EAST 86TH
 STREET,NEW YORK NY
 UNITED STATES
 \$60.00

LEUKEMIA
 1,1987--
 WILLIAMS AND WILKINS
 BALTIMORE
 OFFICIAL JOURNAL OF THE LEUKEMIA SOCIETY OF
 AMERICA AND THE LEUKAEMIA RESEARCH FUND,
 U.K.
 ON ORDER
 SR0057387
 UNITED STATES
 \$340.00

LOSS, GRIEF AND CARE
 1,SEP 1986--
 HAWORTH
 NEW YORK
 ON ORDER
 SR0057423
 UNITED STATES
 \$42.00

PAEDIATRIC MEDICINE
 1,1985--
 DRUID PUBLISHING
 TORONTO
 ON ORDER
 SR0057411
 DRUID PUBLISHING,52 ST CLAIR AVE
 E,TORONTO ONT M4T 1M9,CANADA
 CANADA

PROGRESS IN MEDICAL MICROBIOLOGY
 2,1986--
 GUSTAV FISCHER VERLAG
 STUTTGART
 CONTINUES: FORTSCHRITTE DER MEDIZINISCHEN
 MIKROBIOLOGIE.
 IN PROCESS
 SR0057352
 GUSTAV FISCHER VERLAG,WOLLGRASWEG
 49,D-7000 STUTTGART(HOHNENHEIM),GERMANY
 GERMANY, WEST

SOCIAL AND HEALTH REVIEW
 1,1985?--
 UNITED CEREBRAL PALSY ASSOCIATIONS
 NEW YORK
 IN PROCESS
 SR0057347
 UNITED CEREBRAL PALSY ASSOCIATIONS,66
 EAST 34TH ST.,NEW YORK NY 10016
 UNITED STATES

TOPICS IN ACUTE CARE AND TRAUMA
 REHABILITATION
 1,1986--
 ASPEN
 ROCKVILLE MD
 ON ORDER
 SR0057409
 UNITED STATES
 \$65.00

WORK AND STRESS
 1,JAN 1987--
 TAYLOR AND FRANCIS
 BASINGSTOKE
 ON ORDER
 SR0057422
 TAYLOR AND FRANCIS,BASINGSTOKE HANTS
 RG24 0PR,ENGLAND
 ENGLAND
 \$100.00

YEARBOOK OF NUTRITIONAL MEDICINE
 1ST ED 1984/85--
 KEATS PUBLISHING
 NEW CANAAN CT
 ON ORDER
 SR0057359
 KEATS PUBLISHING INC.,27 PINE ST.,BOX
 876,NEW CANAAN CT 06840
 UNITED STATES

The NLN

MEDLINE'S FIFTEENTH ANNIVERSARY
See enclosed supplement

ISSN 0146-3055

SEPTEMBER 1986

No. 209

Technical Bulletin

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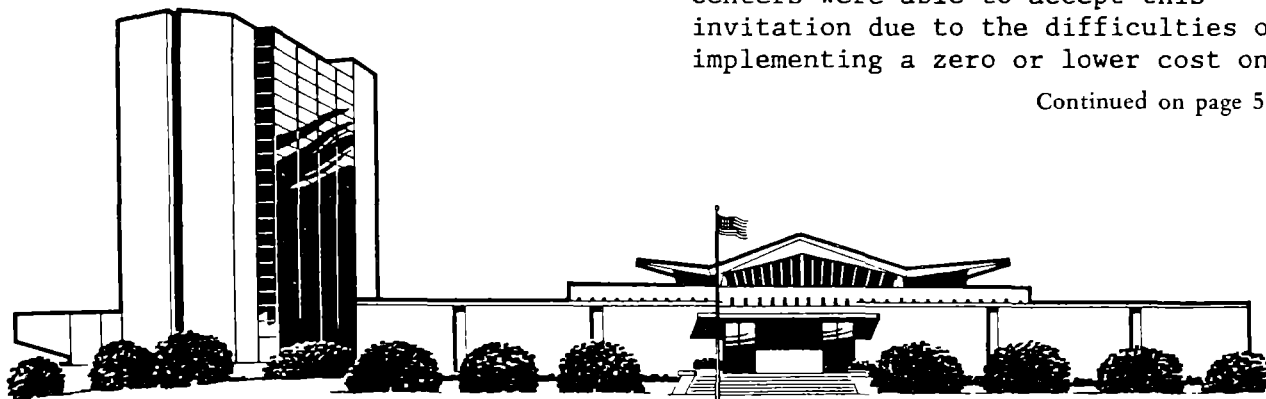
Search MEDLINE For Free On October 27, 1986

During 1986, the National Library of Medicine is celebrating 150 years of service to the biomedical community in the United States and throughout the world. In October, NLM will also mark the 15th anniversary of MEDLINE.

In commemoration of the MEDLINE anniversary, all online usage on the MEDLINE, SDILINE, and the MEDLINE Backfiles will be free all day on Monday, October 27, to domestic users accessing the NLM computer. (Only online services for these files will be non-billed; the usual charges will be in effect for offline processes--offline prints, offsearches, etc.)

NLM has invited domestic vendors and International MEDLARS Centers to join in the October 27th celebration. NLM indicated that it will not charge for usage on the MEDLINE files for that day for centers that passed along the savings to their users. Not all centers were able to accept this invitation due to the difficulties of implementing a zero or lower cost on

Continued on page 5



NLM TECHNICAL BULLETIN • SEP 86

| DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|-----------------|---------------|----------------------|-------------------|-------------------|
| (ELHILL SYSTEM) | | | | |
| AVLINE | 15,273 | THROUGH 1986 | 18 SEP 86 | |
| BIOETHICS | 20,902 | JAN 73-1986 | 09 AUG 86 | 8608(EM) |
| CANCERLIT | 542,488 | JAN 63-SEP 86 | 30 AUG 86 | 8609(EM) |
| CANCERPROJ | 10,183 | THROUGH 1986 | 05 JUL 86 | 8607(EM) |
| CATLINE | 608,176 | THROUGH 1986 | 18 SEP 86 | |
| CHEMLINE | 693,633 | | 09 AUG 86 | 8608(EM) |
| CLINPROT | 5,597 | | 04 SEP 86 | 8608(EM) |
| DIRLINE | 15,531 | | 02 AUG 86 | |
| HEALTH | 356,122 | JAN 75-OCT 86 | 20 SEP 86 | 8610(EM) |
| HISTLINE | 73,778 | | 17 SEP 86 | 8609(EM) |
| MEDLINE | 718,570 | JAN 84-OCT 86 | 30 AUG 86 | 8610(EM) |
| MED83 | 286,615 | JAN 83-DEC 83 | 22 MAR 86 | |
| MED80 | 804,746 | JAN 80-DEC 82 | 13 SEP 86 | |
| MED77 | 775,066 | JAN 77-DEC 79 | 08 FEB 86 | |
| MED75 | 642,612 | JAN 75-DEC 76 | 19 MAY 86 | |
| MED71 | 882,903 | JAN 71-DEC 74 | 16 AUG 86 | |
| MED66 | 954,368 | JAN 66-DEC 70 | 12 AUG 86 | |
| MESH VOC | 58,333 | 1986 | 19 SEP 86 | |
| NAME AUTH | 277,242 | | 06 SEP 86 | |
| POPLINE | 150,630 | 1970-SEP 86 | 20 SEP 86 | 8609(EM) |
| RTECS | 82,973 | THROUGH JUL 86 | 14 AUG 86 | |
| SDILINE | 26,332 | OCT 86 | 30 AUG 86 | 8610(EM) |
| SERLINE | 67,534 | 1986 | 20 SEP 86 | |
| TOXLINE | 843,087 | | 20 SEP 86 | 8609(EM) |
| CBAC | 461,013 | 1981-VOL 105(3,4) | | |
| TOXBIB | 182,773 | 1981-OCT 1986 | | |
| IPA (ASHP) | 38,960 | 1981-VOL 23(17,18) | | |
| BIOSIS | 43,381 | AUG 1986 | | |
| HEEP | 49,788 | 1981-VOL 14(8) | | |
| PESTAB | 1,536 | 1981 | | |
| EMIC | 12,899 | 1981-MAR 1986 | | |
| ETIC | 13,864 | 1981-JUN 1986 | | |
| TD3 | 25,188 | 1981-GRA&I 86(12-15) | | |
| HMTC | 1,869 | 1981-APR 1986 | | |
| ILO | 4,915 | JUL 1986 | | |
| RPROJ/CRISP | 16,086 | FISCAL YEARS 1983-85 | | |
| ANEUPLOIDY | 3,593 | 1969-JUN 1986 | | |
| TOXBACK76 | 555,808 | | 27 AUG 84 | |
| CBAC | 298,383 | 1976-1980 | | |
| TOXBIB | 106,643 | 1976-1980 | | |
| IPA(ASHP) | 33,321 | 1976-1980 | | |
| HEEP | 63,796 | 1976-1980 | | |
| PESTAB | 14,757 | 1976-1980 | | |
| EMIC | 17,267 | 1976-1980 | | |
| ETIC | 11,970 | 1976-1980 | | |
| TD3 | 9,671 | 1976-1980 | | |
| TOXBACK65 | 598,424 | | 27 AUG 84 | |
| CBAC | 287,992 | 1965-1975 | | |
| TOXBIB | 155,387 | 1965-1975 | | |
| IPA(ASHP) | 33,876 | 1969-1975 | | |
| HEEP | 54,075 | 1970-1975 | | |
| HAPAB/PESTAB | 18,416 | 1968-1975 | | |
| EMIC | 19,554 | 1950-1975 | | |
| ETIC | 13,694 | 1950-1975 | | |
| TD3 | 839 | PRE-1965-1975 | | |
| HAYES | 10,039 | 1940-1968 | | |
| TMIC | 4,552 | 1940-1975 | | |
| (TOXNET SYSTEM) | | | | |
| CCRIS | 1,136 | | 01 JUL 86 | |
| HSDB | 4,142 | | 19 AUG 86 | |
| TDB | 4,139 | | 01 OCT 85 | |

Editor: Carolyn B. Tilley
 Assistant Editor: T. Scott Plutchak
 Technical Notes Editor: Patricia E. Healy
 Associate Editor: Kathleen Stenger
 (301) 496-6193

Direct Inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 Bldg., 38A, Rm. 4N421
 Bethesda, Maryland 20894

Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual, 1986 that is considered to be most relevant to the item being discussed, e.g., (Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

EXTENDED MMS SERVICE DESK HOURS FOR TRIAL PERIOD

During the months of October and November, 1986, MMS is extending the Service Desk hours until 6:00 pm Eastern Time (ET), Monday through Friday, in order to study the service needs of MEDLARS users during the 5:00-6:00 pm ET time period. This two-month timeframe will be used to collect data. Please share the news of our extended Service Desk hours with other searchers. It is necessary that the MEDLARS user community be aware of the extra service time in order for the data collected to reflect accurate needs for further NLM decision making. □

UNINET DISCONTINUED

Reminder: Effective October 1, 1986, MEDLARS searchers who use UNINET to access the databases at NLM should discontinue all use of their UNINET local access numbers and UNINET access procedures. Searchers should begin using either TELENET or TYMNET services to connect to the NLM MEDLARS system at that time. In those cities where there was only UNINET service, it is expected that TELENET or TYMNET numbers will become available during the next few months. Please call the MEDLARS Management Service Desk if you experience telecommunications problems. Please see the August 1986

NLM Technical Bulletin, p. 3, for details of the TELENET/UNINET merger. □

VETERANS DAY HOLIDAY SCHEDULE

The NLM computer will be up on a guaranteed basis on Tuesday, November 11, 1986, Veterans Day. Non-prime rates will be in effect all day. The MEDLARS Management Service Desk will not be staffed. □

TDB TO BE DISCONTINUED ON TOXNET

REMINDER: As previously announced in the April 1986 NLM Technical Bulletin, p. 3, the TOXICOLOGY DATA BANK (TDB) will be discontinued on TOXNET after September 30, 1986. All data in the TDB file has been subsumed by the larger, more comprehensive HAZARDOUS SUBSTANCES DATA BANK (HSDB) on NLM's TOXNET system. Users who have previously limited their searching to TDB should be reassured that they will retain access to all the TDB data plus considerably more by searching HSDB. □

SPECIFYING USER ID CODE WITH NTIS PAYMENTS

To insure proper and timely credit to your NTIS MEDLARS account of payments made for MEDLARS online services, please include your NTIS invoice number or MEDLARS User ID code (e.g., ABC01) on your check or purchase order. Your NTIS invoice number or MEDLARS User ID code should also be used on all correspondence to NTIS or the MEDLARS Management Section concerning billing matters to facilitate resolution of your problem.

NOTE: DO NOT INCLUDE with the payment or correspondence your PASSWORD, that is, the word used after the alphanumeric User ID code and the (/), when accessing MEDLARS (e.g., ABC01/password). A password is used with the User ID code to prevent unauthorized MEDLARS access and should never be casually given out to anyone or posted near the terminal. Use the PROFILE MODIFY PASSWORD command to change your password periodically for security reasons. The new password should be alphabetic; it must be at least three (3) characters in length, but no more than eight (8).□

ADDITIONAL REGISTRY NUMBERS ADDED TO RTECS

RTECS was updated on August 14, 1986 and now contains 82,973 records corresponding to NIOSH data through July 1986. This update contains 3,000 additional Chemical Abstracts Service (CAS) Registry Numbers (RN) located as a result of NIOSH and NLM's collaborative effort to add Registry Numbers to RTECS. Seventy percent of RTECS records now carry Registry Numbers.□

DIRLINE 'PRINT' DISPLAY

Effective September 11, the data elements (or fields) that display when a user issues a PRINT (PRT) command in DIRLINE have been changed. Issuance of this command now causes the following data elements to display: Secondary Source Identifier (SI), Name (NA), Address (AD), and Institutional Contacts (IC). The SI, NA, and AD fields are present in all records. The IC field is present only in records having the Secondary Source Identifiers of HR (for ODPHP Health Information Center) or PCC (for Poison Control Centers).

Previously use of the PRINT command in DIRLINE caused the Secondary Source Identifier (SI), Name (NA), Abstract (AB), Holdings (HO), and General Notes (GN) data elements to be displayed; the Address (AD) was not displayed. This change in the DIRLINE PRINT display has been implemented to conform with the standard PRINT command and to display brief, basic information. Costs for printing basic information are also reduced as a result of this change. The PRINT FULL command still includes the AB, HO, and GN data.□

Please access FILE INFORM and type NEWS to see the most recent news item online!

Search MEDLINE for free

Continued from page 1

one file in their accounting and billing systems.

As of September 15, the following organizations have replied that they would participate in offering a "free day" of MEDLINE searching on their computer systems, or through international online access to NLM's computer: BRS, DIALOG, DIMDI (West Germany), DOKDI (Switzerland), MIC/KIBIC (Sweden), INSERM (France), BLAISE-LINK (England), PAFAMS (Colombia), South African Medical Research Council, University of Alabama, Georgetown University, Texas Tech University, Houston Academy

of Medicine, University of Texas at Dallas, Johns Hopkins University, Cornell University, Washington University (St. Louis), Medical University of South Carolina, Eastern Virginia Medical School, and Yale University. Please look for an announcement from the vendor or center you normally use for searching.

The success of MEDLINE is in large measure due to the enthusiasm and competence of the thousands of MEDLINE searchers who serve the biomedical community. NLM is pleased to recognize MEDLINE'S 15th anniversary and as part of the Library's Sesquicentennial Year. □

NLM Online Training Program 1987

Patricia C. Buchan
MEDLARS Management Section, NLM

The schedule of NLM Online Services Training classes has been announced for 1987 and is reproduced on page 7. During the coming year, a total of 42 Initial Training classes will be held throughout the United States. Thirty of these will be held at sites other than NLM. Every attempt will be made to place training applicants in the class being taught in the location nearest to them. If a class is filled, the applicant will be placed in the first available class either at NLM or at a local site. Because many

of the 1986 classes have been filled, a number of applicants have been placed on a waiting list for 1987 classes. These applicants will receive first priority when the scheduling process for 1987 begins.

This year, there will be ten offerings of the Advanced Online Services Training class. Five of these will be taught at NLM, and five will be taught regionally.

The revised application for training was enclosed with the June 1986 NLM Technical Bulletin. Please make photocopies of this form for future requests for training or contact the MEDLARS Management Service Desk for a copy of the application.□

ERRATUM

Dorothy Earley, Midlands Online Region, should have been listed as co-author of the article "Midlands Online Region Hedges Save Time and Money" which appeared in the August 1986 issue of the NLM Technical Bulletin. Several typographical errors also crept into the article while it was being prepared: the words INOCULATE and INOCULATION in the VACCINE hedge, and DEMENTIA in the MENTAL hedge were misspelled. We regret these errors.

NLM ONLINE SERVICES TRAINING
TENTATIVE

1987 SCHEDULE OF INITIAL CLASSES

| <u>DATES</u> | <u>LOCATION</u> | <u>DATES</u> | <u>LOCATION</u> |
|---------------|--------------------|---------------------|------------------|
| JANUARY 5- 9 | Bethesda, MD | JULY 13-17 | Sacramento, CA |
| 12-16 | New Orleans, LA | 13-17 | San Antonio, TX |
| 12-16 | Honolulu, HI | 20-24 | Bethesda, MD |
| 12-16 | Columbia, SC | 20-24 | Philadelphia, PA |
| FEBRUARY 2- 6 | Los Angeles, CA | AUGUST 3- 7 | Bozeman, MT |
| 2- 6 | Jackson, MS | 10-14 | Cincinnati, OH |
| 9-13 | St. Louis, MO | 10-14 | Hanover, NH |
| 23-27 | Bethesda, MD | 24-28 | Bethesda, MD |
| MARCH 2- 6 | New York, NY | 31-SEPT. 4 | Omaha, NE |
| 9-13 | Chicago, IL | SEPTEMBER 28-OCT. 2 | Bethesda, MD |
| 9-13 | Tucson, AZ | 28-OCT. 2 | Los Angeles, CA |
| 23-27 | Bethesda, MD | 28-OCT. 2 | New York, NY |
| APRIL 6-10 | Los Angeles, CA | OCTOBER 26-30 | Bethesda, MD |
| 6-10 | Omaha, NE | NOVEMBER 2- 6 | Bethesda, MD |
| 6-10 | Bethesda, MD | 2- 6 | Miami, FL |
| MAY 4- 8 | Salt Lake City, UT | 16-20 | Bethesda, MD |
| 4- 8 | Buffalo, NY | DECEMBER 7-11 | Chapel Hill, NC |
| 4- 8 | Bethesda, MD | 7-11 | Detroit, MI |
| 11-15 | Portland, OR | 7-11 | Seattle, WA |
| JUNE 1- 5 | Los Angeles, CA | | |
| 8-12 | New York, NY | | |
| 15-19 | Milwaukee, WI | | |
| 15-19 | Bethesda, MD | | |

1987 SCHEDULE OF ADVANCED CLASSES

| <u>DATES</u> | <u>LOCATION</u> | <u>DATES</u> | <u>LOCATION</u> |
|-----------------|-----------------|--------------------|-----------------|
| JANUARY 26-30 | Bethesda, MD | JUNE 22-26 | Milwaukee, WI |
| FEBRUARY 2- 6 | St. Louis, MO | AUGUST 3- 7 | Bethesda, MD |
| MARCH 30-APR. 4 | Los Angeles, CA | AUGUST 17-21 | Hanover, NH |
| APRIL 27-MAY 1 | Bethesda, MD | NOVEMBER 30-DEC. 4 | Bethesda, MD |
| JUNE 1- 5 | Bethesda, MD | DECEMBER 14-18 | Chapel Hill, NC |

1987 Online Services Updates

In the fall of each year, Online Services Updates are held throughout the United States. This year, the Updates will be sponsored by the three Regional Online Training and Information Centers (the University of California at Los Angeles, the University of Nebraska, and the New York Academy of Medicine) and will be held at various locations around the country. These Update sessions provide information on changes to the MeSH Vocabulary, databases, and network policy, which are anticipated or planned for the near future, to institutions and individuals who access MEDLARS. The 1987 Updates planned for the fall of 1986 have been scheduled. The dates and locations of these Updates are shown below.

For additional information on the locations and contact persons for Updates in the Eastern Region, searchers should contact Micki McIntyre at the New York Academy of Medicine (212) 876-8763; for Updates in the Midlands Region, Helen-Ann Brown, University of Nebraska Medical Center Library (800) 633-7654; and for Updates in the Western Region, Janice Contini, UCLA Biomedical Library (213) 825-1200.

1987 NLM Online Services Updates: Eastern Online Training Region

| DATE | LOCATION |
|--------|--|
| Oct 3 | Boston, Massachusetts |
| Oct 8 | Princeton, New Jersey (HSLANJ) |
| Oct 15 | Mid-Atlantic MLA Chapter, Charlottesville, Virginia |

| | |
|------------------|--|
| Oct 17 | Gulf Shores, Alabama |
| Oct 22 | North-Atlantic MLA Chapter, Hartford, Connecticut |
| Oct 24 | Winston-Salem, North Carolina |
| Oct 27 | Pittsburgh MLA Chapter, Pittsburgh, Pennsylvania |
| Nov 3 | Atlanta, Georgia |
| Nov 5 | Southern MLA Chapter, Nashville, Tennessee |
| Nov 7 | Upstate NY & Ontario MLA Chapter, Rochester, New York |
| Nov 10 | New York City, New York |
| Nov 12 and 13 | Philadelphia MLA Chapter, Philadelphia, Pennsylvania |
| Nov 24 | New York City, New York |
| Dec 1 | Bethesda, Maryland |
| Dec 4 | Tampa, Florida |

1987 NLM Online Services Updates: Midlands Online Training Region

| DATE | LOCATION |
|--------|-------------------------|
| Sep 29 | Des Moines, Iowa |
| Oct 1 | Topeka, Kansas |
| Oct 2 | Omaha, Nebraska |
| Oct 7 | St. Clair, Michigan |
| Oct 10 | Madison, Wisconsin |
| Oct 14 | Albuquerque, New Mexico |
| Oct 15 | Denver, Colorado |
| Oct 17 | Salt Lake City, Utah |

| | | | |
|--------|---------------------------|--------|---------------------------|
| Oct 20 | Casper, Wyoming | Oct 9 | Portland, Oregon |
| Oct 20 | Minneapolis, Minnesota | Oct 11 | Bozeman, Montana |
| Oct 23 | Chicago, Illinois | Oct 14 | Anchorage, Alaska |
| Oct 29 | Ft. Worth, Texas | Oct 16 | Boise, Idaho |
| Nov 3 | Columbus, Ohio | Oct 17 | Seattle, Washington |
| Nov 7 | Louisville, Kentucky | Oct 30 | Long Beach, California |
| Nov 14 | Sioux Falls, South Dakota | Oct 30 | Irvine, California |
| Nov 17 | New Orleans, Louisiana | Oct 31 | Glendale, California |
| Nov 19 | Little Rock, Arkansas | Nov 10 | Sacramento, California |
| Nov 21 | Oklahoma City, Oklahoma | Nov 12 | San Francisco, California |
| Nov 24 | St. Louis, Missouri | Nov 14 | Berkeley, California |
| Dec 5 | Indianapolis, Indiana | Nov 25 | Honolulu, Hawaii |

Dec 3 Phoenix, Arizona

1987 NLM Online Services Updates:
Western Online Training Region

Dec 4 Tucson, Arizona

DATE LOCATION

Oct 7 Reno, Nevada

In the Western Region the Update Sessions will be held in the morning from 8-12. The afternoons will be devoted to a TOXNET workshop developed by SIS.□



[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated.]

I noticed that when I am sent my User ID code I receive two passwords, an ELHILL/MEDLEARN password and a PDQ password. Which password do I enter during SETUP? How do I access PDQ?

New users are sent one User ID code and two passwords. The ELHILL/MEDLEARN password provides access to MEDLINE, the MEDLINE backfiles, CATLINE, and other MEDLARS databases including MEDLEARN. The PDQ password allows you to access PDQ. PDQ (Physician Data Query) is an online user-friendly system that has been designed by the National Cancer Institute to assist physicians in the treatment of cancer patients. PDQ makes use of a menu-based approach.

During SETUP, you should input your User ID code and ELHILL/MEDLEARN password. The PDQ password should NOT be stored during SETUP.

To LOGON to PDQ choose option 3 (direct access) from the ACTION Screen in GRATEFUL MED. Once GRATEFUL MED has connected to the NLM computer follow these steps to connect to PDQ:

1. At SS 1 /C?
USER:

Type: LOGON (CR)
2. The system responds with the message:
IKJ####/ENTER USERID-

Enter your NLM User ID code/special PDQ password followed by ENTER or press the carriage return.

PDQ responds:

```
LOGON IN PROGRESS AT (time and day)
.
.
.
PDQUFS CURRENT USERS:
HELLO (User ID code)
```

PDQ then prompts you for information concerning the type of display format you want to use in the session. To begin searching type START when prompted followed by pressing the ENTER key or carriage return.

To LOGOFF PDQ:

1. At any caret prompt (>) type:

EXIT (CR)

2. When prompted type:

END (CR)

You should not have your retrieval reformatted; but you may print your PDQ search interaction. You will also be prompted to review the interaction.□

3. Answer NO to the question "IF YOU ARE AN ELHILL USER AND WOULD LIKE TO LOGON TO ELHILL, ENTER YES".

You are then returned to GRATEFUL MED. Because PDQ records are different from MEDLINE and CATLINE, relevancy judgement of retrieval is not appropriate.

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p. 3.
NLM ONLINE TRAINING PROGRAM,
p. 6.
NLM ONLINE UPDATES, p. 8.

The Poison Control Centers Component Subfile In DIRLINE

Kenneth Alan Collins, Ph.D.
Specialized Information Services, NLM

The third and newest component subfile, Poison Control Centers (PCCs), was added to DIRLINE (Directory of Information Resources Online), at the beginning of August 1986, as part of a DIRLINE file rebuild. This subfile, while containing only 118 records (i.e., 118 centers), is expected to be a valuable addition to DIRLINE because of the important services such centers provide.

The PCC subfile does not list every organization which calls itself a "poison control center". The PCCs in DIRLINE are those which appeared in the April 30, 1986 issue of the publication Emergency Medicine (EM). EM has been publishing such a listing for many years, originally with data compiled by the U.S. Food and Drug Administration. Beginning with the 1986 list, selection criteria for the inclusion of PCCs were developed by EM in consultation with representatives of the American Association of Poison Control Centers (AAPCC) as well as other toxicologists. These criteria were developed to assure that only those PCCs would be listed that met certain minimum performance conditions; these criteria will also be used in preparing future listings. The net effect of the screening process has been to considerably reduce the number of PCCs listed compared to earlier years.

To be included, a PCC must either have a separate, dedicated staff (regardless of whether the PCC is part of a larger organization or not), or, if it does not have a separate staff, it must receive at least 1,500

calls/year concerning actual human exposure incidents, be available 24 hours/day, and have either a registered pharmacist or M.D. on the staff. For a few centers, the requirement regarding number of calls/year has been relaxed if the geographic area covered is large but sparsely settled (e.g., Alaska).

EM supplied the name, address, and telephone number(s) of each center. This information was based on a questionnaire returned to the publication in January 1986. A spot check of telephone numbers was made to determine the likelihood that, overall, this information was correct. The spot check indicated a high level of accuracy. The National Library of Medicine developed three "boilerplate" abstracts to be used, as appropriate, in the AB (Abstract) field of each PCC record in DIRLINE. That is, the descriptions found in this field are not specific for a particular center. The three types of centers are those which are certified by the AAPCC, those which are not certified by the AAPCC, but nevertheless are designated as statewide or regional centers by either state law or a state health department, and those which fit into neither category. In numerous instances, an AAPCC-certified center is also a state-designated center. The third type is often a satellite of a regional or statewide center. These abstracts were developed with assistance from both the editor of EM and the 1985/86 President of AAPCC.

Each PCC record contains the acronym "PCC" in the SI (Secondary Source Identifier) field. At the time this subfile was added to DIRLINE, no unique number was attached to the acronym, since the source of the information, the list in EM, does not use a numbering system. However, numbers will be added at the time of the next update, to allow online searchers quick access to particular records. Thus, a record in which the

SI field now contains PCC, might contain, for example, PCC/071 when this becomes effective. Users will be able to search by the acronym only, to produce a subset of all PCCs, or by a specific number, as is true with other components of DIRLINE.

The format of PCC records is the same as that of OHIC (ODPHP Health Information Center) records. Telephone numbers are found in the IC (Institution Contacts) data element, and if there is more than one number, this data element repeats. There is at least one center located in every state except Montana, which is served by a center in another state. In this instance, this fact is mentioned in the GN (General Notes) field, which is Text Word searchable. The Entry Month (EM) for all PCC records is currently 8604, representing the date the list was published in EM. The KW (Keywords) were developed by the National Library of Medicine. There are three Keyword groups, corresponding to the three types of PCCs as explained in the discussion of the AB field. For all AAPCC-certified centers (35 in all), there is a See Also reference in the FX (Forward Cross Reference) field to the AAPCC

record. The ZP (Zip Code) field contains either a 5-digit basic or a 9-digit "Zip+4" zip code. (See the July 1986 issue of the NLM Technical Bulletin for helpful hints on geographic searching in DIRLINE).

If any address or telephone number information is changed for the PCC record between one annual listing in EM and the next, the date that this information changed will be noted in the LR (Last Revision Date) field.

Searching for Poison Control Centers in DIRLINE is remarkably easy. If the user knows in advance that he is only looking for such centers, he should immediately restrict searching to this file by using the PCC acronym in the SI field. This would most commonly be ANDed with a particular state to find the one or more PCCs located in that state.

Figure 1 shows a sample search for Poison Control Centers located in Texas. Two print commands which might typically be used to display information from this subfile are PRT and PRT DL. The results from the first of these are shown in Figure 1, the second in Figure 2. □

YOU ARE NOW CONNECTED TO THE DIRLINE FILE.

SS 1 /C?

USER:

pcc (si)

PROG:

SS (1) PSTG (118)

SS 2 /C?

USER:

1 and tx (cy)

PROG:

SS (2) PSTG (3)

SS 3 /C?

USER:

prt 2

PROG:

1

SI - PCC

NA - R.E. Thomason General Hospital

NA - El Paso Poison Control Center

AD - 4815 Alameda Ave., El Paso, TX 79905

IC - (915) 533-1244

2

SI - PCC

NA - Parkland Memorial Hospital

NA - North Central Texas Poison Center

AD - P.O. Box 35926, Dallas, TX 75235

IC - in Texas, (800) 441-0040

IC - (214) 920-2400

Figure 1

SS 3 /C?

USER: prt 1 skip 2 dl

PROG:

3

SI - PCC
 NA - University of Texas Medical Branch
 NA - Texas State Poison Center
 AD - Eighth & Mechanic Sts., Galveston, TX 77550-2780
 CY - Texas (TX)
 ZP - 77550-2780
 IC - in Texas, (800) 392-8548
 IC - (409) 765-1420
 IC - in Austin, (512) 478-4490
 IC - in Houston, (713) 654-1701
 AB - A poison control center provides information on poisonous or potentially poisonous substances, including pesticides, industrial and household chemicals, drugs, foods, and plants, as well as animal and insect bites and stings. Frequent questions concern childhood poisoning and drug overdoses. This regional poison control center has received certification from the American Association of Poison Control Centers (AAPCC). It is staffed 24-hours/day by a poison control team of professionals (primarily nurses, pharmacists, and/or physicians) qualified to interpret and convey poisoning information to health professionals and lay persons. A medical director or designated physician-alternate is always available for consultation. To receive AAPCC certification this poison control center has demonstrated maintenance of strict criteria regarding staffing, staff qualifications, available reference resources, data collection, professional and public education programs, and regional treatment capabilities. It has been state-designated to serve a region comprising a defined minimum population base.

KW - American Association of Poison Control Centers
 KW - State-designated Poison Control Centers
 KW - Regional Poison Control Centers
 KW - Poison Control Centers
 KW - PCC
 KW - Accidents
 KW - Accident prevention
 KW - Animal bites
 KW - Poisonous plants
 KW - Insect bites
 KW - Household chemicals
 KW - Poisoning emergency
 KW - Poisoning hotline
 FX - See also NRC/69/014302, American Association of Poison Control Centers.
 EM - 8604

Figure 2

Monthly Search Hint

Searching The MH Field In CATLINE/AVLINE

Carolyn N. Davis
Technical Services Division, NLM

Some searchers have experienced problems when using unqualified subject terms in CATLINE or AVLINE. All data elements, except Text Words (TW) and Keywords (KW), are looked at for a match to an unqualified search term in these databases. If the subject term is actually a See reference rather than the preferred MeSH form, the system may find a match for that term in another searchable field, and give its postings rather than performing the map to the real MeSH heading. To alleviate this problem, it is best to qualify a subject search by (MH) in order to search for topics.

For example, there is a record in CATLINE which has a Uniform Title (UT) field that contains the word "Cancer". "Cancer" is a See reference to the MeSH term NEOPLASMS, but when a searcher inputs the term CANCER, one posting is received for the Uniform Title instead of for all the records which have the MeSH Subject Heading, NEOPLASMS, on them.

SS 1 /C?
USER:
cancer

PROG:
SS (1) PSTG (1)

The automatic mapping to NEOPLASMS will occur if the searcher inputs CANCER (MH).

SS 2 /C?
USER:
cancer (mh)

PROG:
SS (2) PSTG (5350)

The same thing happens when 'AIDS' is entered. The postings for the records with the Series (SE) "Aids" is retrieved instead of all the records with the heading-ACQUIRED IMMUNODEFICIENCY SYNDROME.

SS 3 /C?
USER:
aids

PROG:
SS (3) PSTG (2)

If AIDS (MH) is entered, the searcher will retrieve all the records for ACQUIRED IMMUNODEFICIENCY SYNDROME.

SS 4 /C?
USER:
aids (mh)

PROG:
SS (4) PSTG (74)

If those topics are not wanted as subject headings, an unqualified search will certainly retrieve the Uniform Title or Series. However, the best way to search for Series, Uniform Title, Corporate Names, etc., is to use the Text Word Capability. Searching AIDS (TW) will retrieve all the records which have the word AIDS in any corporate or personal name, title, uniform title, series, imprint, title continuation, or authorship statement. However, the Text Word search will not necessarily retrieve the MeSH Subject Headings.

SS 5 /C?
USER:
aids (tw)

PROG:
SS (5) PSTG (867)
□

Serials Update

INDEXED TITLES UPDATE, SEPTEMBER 1986

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last

UPDATE. More detailed information about each title may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, AUGUST 1986

INI NEW ERA NURSING IMAGE INTERNATIONAL
 NEW ERA NURS IMAGE INT
 1,1985?---
 ILESA DIOCESE PRINTING PRESS
 OYO STATE NIGERIA
 INDEXING BEGAN WITH V2N2,1986.
 ON ORDER
 SR0057698 JTC: OA9

INI PROFESSIONAL NURSE
 PROF NURSE
 INI, JAN 1986--
 AUSTEN CORNISH PUBLISHERS
 LONDON ENGLAND
 INDEXING BEGAN WITH V1N10, JUL 1986.
 ON ORDER 0266-8130
 SR0057692 JTC: PZJ

INI TRADIMUS
 TRADIMUS
 1,1985?--
 RCN TYPESETTING AND PRODUCTION
 LONDON ENGLAND
 INDEXING BEGAN WITH NO.2, SUMMER 1986.
 ON ORDER 0269-0977
 SR0057691 JTC: WAO
 ROYAL COLLEGE OF NURSING, 20 CAVENDISH
 SQUARE, LONDON W1M 0AB, ENGLAND

TITLE CHANGES, AUGUST 1986

HLI GHAA JOURNAL
 GHAA J
 7N1, SPRING 1986--
 GROUP HEALTH ASSOCIATION OF AMERICA
 WASHINGTON UNITED STATES
 CONTINUES: GROUP HEALTH JOURNAL.
 ON ORDER-TITLECHANGE 0888-4250
 SR0057561 JTC: FAO

HLI MCGRAW HILLS MEDICINE AND HEALTH
 MCGRAW HILLS MED HEALTH
 40N30, JUL 1986--
 MCGRAW HILL
 WASHINGTON UNITED STATES
 CONTINUES: WASHINGTON REPORT ON MEDICINE
 AND HEALTH.
 ON ORDER
 SR0057565 JTC: M9J

IM JAPANESE JOURNAL OF PSYCHIATRY AND NEUROLOGY
 JPN J PSYCHIATRY NEUROL
 40N1, MAR 1986--
 FOLIA PUBLISHING SOCIETY
 TOKYO JAPAN
 CONTINUES: FOLIA PSYCHIATRICA ET
 NEUROLOGICA JAPONICA.
 IN PROCESS 0912-2036
 SR0057786 JTC: KOB

IM NCI MONOGRAPHS
 NCI MONOGR
 N1, 1986--
 NATIONAL CANCER INSTITUTE
 BETHESDA MD UNITED STATES
 CONTINUES: NATIONAL CANCER INSTITUTE
 MONOGRAPHS AND: CANCER TREATMENT SYMPOSIA.
 IN PROCESS
 SR0057740 JTC: NS3

| | |
|---|--|
| <p>IM ORIGINS OF LIFE AND EVOLUTION OF THE BIOSPHERE ORIG LIFE EVOL BIOSPH 15N1,1984-- REIDEL DORDRECHT NETHERLANDS CONTINUES: ORIGINS OF LIFE. IN PROCESS SR0057597 JTC: OK8</p> | <p>POP PATHWAYS PATHWAYS SUMMER,1986-- PATHFINDER FUND CHESTERNUT HILL MA UNITED STATES CONTINUES: PATHPAPERS. IN PROCESS SR0057589 JTC: PCN</p> |
|---|--|

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT,
NON-INDEXED TITLES, AUGUST 1986

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH, and POPLINE are listed in the "INDEXED TITLES UPDATE" section. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill

loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if know. Information provided is not authorized NLM cataloging data. For further information contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ADVANCES IN THE BEHAVIORAL ASSESSMENT OF CHILDREN AND FAMILIES
2,1986--
JAI PRESS
BROOKLYN NY UNITED STATES
CONTINUES: ADVANCES IN THE BEHAVIORAL MEASUREMENT OF CHILDREN.
IN PROCESS
SR0057789
JAI PRESS,C/O MERCEDES DISTRIBUTION CENTER,160 IMLAY STREET,BROOKLYN NY 11231

BIOCATALYSIS
1,1986--
HARWOOD ACADEMIC
LONDON ENGLAND
ON ORDER
SR0057717 \$152.00
HARWOOD ACADEMIC PRESS,1 BEDFORD ST,LONDON WC2E9PP,ENGLAND

ADVANCES IN GASTROENTEROLOGY
1,1985--
PICCIN
PADUA ITALY
IN PROCESS
SR0057580
PICCIN EDITORE,VIA BRUNACCI 122,35100 PADUA,ITALY

BREAST DISEASE
1,1987--
ELSEVIER
NEW YORK UNITED STATES
ON ORDER
SR0057632 \$120.00

ALLERGY TODAY
1984--
LIPHOOK
HAMPSHIRE ENGLAND
ON ORDER
SR0057678

CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS
1,1986--
ELSEVIER
AMSTERDAM NETHERLANDS
ON ORDER
SR0057795 \$116.00

ASAIO PRIMERS IN ARTIFICIAL ORGANS
1,1987--
J.P. LIPPINCOTT
PHILADELPHIA UNITED STATES
ON ORDER
SR0057634 \$80.00
J.P. LIPPINCOTT,EAST WASHINGTON SQUARE,PHILADELPHIA PA

CURRENT STUDIES IN DIAGNOSTIC IMAGING
7,1987--
KARGER
BASEL SWITZERLAND
CONTINUES: BIBLIOTHECA RADIOLOGICA.
ON ORDER
SR0057790

DRUG DESIGN AND DELIVERY
 IN1,AUG 1986--
 HARWOOD ACADEMIC
 LONDON ENGLAND
 ON ORDER
 SR0057720 \$176.00
 STBS,1 BEDFORD ST,LONDON WC2E 9PP,ENGLAND

EPILEPSY RESEARCH
 1,1987--
 ELSEVIER
 AMSTERDAM NETHERLANDS
 ON ORDER
 SR0057733 \$145.00

FORTSCHRITTE IN DER CHIRURGIE
 1,1986--
 W. ZUCKSCHWERDT VERLAG
 MUNCHEN GERMANY, WEST
 IN PROCESS
 SR0057530
 W. ZUCKSCHWERDT VERLAG,KRONWINKLER
 STRASSE 24,D-8000 MUNCHEN 60,WEST GERMANY

FRONTIERS IN PHARMACOLOGY AND PHYSIOLOGY
 1,1986--
 KARGER
 BASEL SWITZERLAND
 ON ORDER
 SR0057791 \$84.00

HMO PRACTICE
 1,1987--
 J.B. LIPPINCOTT
 PHILDELPHIA UNITED STATES
 ON ORDER
 SR0057655 \$52.00

IN VIVO
 1,1987--
 IN VIVO
 KIFISSIA GREECE
 ON ORDER
 SR0057729 \$220.00
 DR. J.G. DELINASSIOS,MANAGING
 EDITOR,P.O. BOX 51359,KIFISSIA GR-145
 10,GREECE

INDIAN JOURNAL OF CLINICAL BIOCHEMISTRY
 1,1986--
 MANIPAL INDIA
 ON ORDER
 SR0057650
 DR T.N.PATTABIRAMAN,DEPT OF
 BIOCHEMISTRY,KASTURBA MEDICAL
 COLLEGE,MANIPAL 576 119,INDIA

INDIAN JOURNAL OF COLO-PROCTOLOGY
 IN1,JAN 1986--
 CALCUTTA INDIA
 IN PROCESS
 SR0057681
 DR. S.A. MOMEN,30,CIRCUS AVENUE,CALCUTTA
 700 017,INDIA

INTERNATIONAL JOURNAL OF COMPARATIVE
 PSYCHOLOGY
 1,1987--
 HUMAN SCIENCES PRESS
 NEW YORK UNITED STATES
 ON ORDER
 SR0057656 \$75.00
 HUMAN SCIENCES PRESS,72 FIFTH AVENUE,NEW
 YORK NY 10011

JOURNAL OF DIABETIC COMPLICATIONS
 1,1987--
 J.B. LIPPINCOTT
 NEW YORK UNITED STATES
 ON ORDER
 SR0057635 \$84.00
 J.P. LIPPINCOTT,EAST WASHINGTON SQUARE,
 PHILADELPHIA PA 19105

JOURNAL OF PAEDIATRIC DENTISTRY
 1,1985--
 BLACKWELL SCIENTIFIC
 OXFORD ENGLAND
 ON ORDER
 SR0057754

LIPID MEDIATORS
 1,1987--
 GERON X
 LOS ALTOS CA UNITED STATES
 ON ORDER
 SR0057663 \$70.00
 GERON X INC.,P.O.BOX 1108,LOS ALTOS CA
 94022

NEPHROLOGY DIALYSIS TRANSPLANTATION
 1,1986--
 SPRINGER VERLAG
 NEW YORK UNITED STATES
 ON ORDER
 SR0057629 \$69.00
 SPRINGER VERLAG,44 HARTZ WAY,SECAUCUS NJ
 07094

PEDIATRIC REVIEWS AND COMMUNICATIONS
 1,1986--
 HARWOOD ACADEMIC
 CHUR SWITZERLAND
 ON ORDER
 SR0057724 \$112.00
 STBS,1 BEDFORD ST,LONDON WC2E 9PP,ENGLAND

FRATIQUE DENTAIRE
 1,1986--
 MASSON
 PARIS FRANCE
 ON ORDER
 SR0057675

PROGRESS IN TRANSFUSION MEDICINE
 1,1986--
 CHURCHILL LIVINGSTONE
 NEW YORK UNITED STATES
 ON ORDER
 SR0057603 \$28.00
 CHURCHILL LIVINGSTONE,19 W. 44TH
 STREET,NEW YORK NY 10036

PROTEIN SEQUENCES AND DATA ANALYSIS
 1,1987--
 SPRINGER-VERLAG
 SECAUCUS NJ UNITED STATES
 ON ORDER
 SR0057627 \$296.00
 SFRINGER-VERLAG,44 HARTZ WAY,SECAUCUS NJ
 07094

PSYCHOLOGY AND HEALTH
 1,1986--
 HARWOOD ACADEMIC
 CHUR SWITZERLAND
 ON ORDER
 SR0057725 \$104.00
 STBS,1 BEDFORD ST,LONDON WC2E 9PP,ENGLAND

REVUE DE L ETUDIANT EN MEDECINE
 IN1,SEP/OCT 1985--
 PANORAMA DU MEDECIN
 PARIS FRANCE
 ON ORDER
 SR0057676
 PANORAMA DE MEDECIN,18 RUE DE
 MARIGNAN,75008 PARIS,FRANCE

SERODIAGNOSIS AND IMMUNOTHERAPY
 1,1987--
 ACADEMIC PRESS
 LONDON ENGLAND
 ON ORDER
 SR0057730

SPEKTRUM DER AUGENHEILKUNDE
 1,1987--
 SPRINGER-VERLAG
 NEW YORK UNITED STATES
 ON ORDER
 SR0057654 \$69.00
 SPRINGER-VERLAG,44 HARTZ WAY,SECAUCUS NJ
 07094

STEREOCHEMISTRY OF ORGANOMETALLIC AND
 INORGANIC COMPOUNDS
 1,1986--
 ELSEVIER SCIENCE PUBLISHERS
 AMSTERDAM NETHERLANDS
 IN PROCESS
 SR0057472

SURGICAL ENDOSCOPY ULTRASOUND AND
 INTERVENTIONAL TECHNIQUES
 1,1987--
 SPRINGER VERLAG
 NEW YORK UNITED STATES
 ON ORDER
 SR0057631 \$107.00
 SPRINGER-VERLAG,44 HARTZ WAY,SECAUCUS NJ
 07094

SURGICAL RESEARCH COMMUNICATIONS
 1,1986--
 HARWOOD ACADEMIC
 CHUR SWITZERLAND
 ON ORDER
 SR0057728 \$136.00
 STBS,1 BEDFORD ST,LONDON WC2E 9PP,ENGLAND

SYNAPSE
 1,1987--
 ALAN R. LISS
 NEW YORK UNITED STATES
 ON ORDER
 SR0057535 \$210.00

TEACHING AND TRAINING IN PSYCHOGERIATRIC
 MEDICINE
 1,1986--
 KARGER
 BASEL SWITZERLAND
 ON ORDER
 SR0057792 \$17.00

TRENDS IN ECOLOGY AND EVOLUTION
 1,1987--
 ELSEVIER
 AMSTERDAM NETHERLANDS
 ON ORDER
 SR0057804 \$240.00

THE
FIFTEEN YEARS OF MEDLINE
Special Supplement

NLM

ISSN 0146-3055

SEPTEMBER 1986

Supplement No. 1

Technical Bulletin

In This Issue:

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| A MEDLINE Snapshot | 2 |
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| The First 25 MEDLINE Users | 8 |
| MEDLINE At Fifteen: Getting There | 9 |
| MEDLARS...or MEDLINE...or ELHILL...or What? | 16 |
| Computer Savvy | 19 |

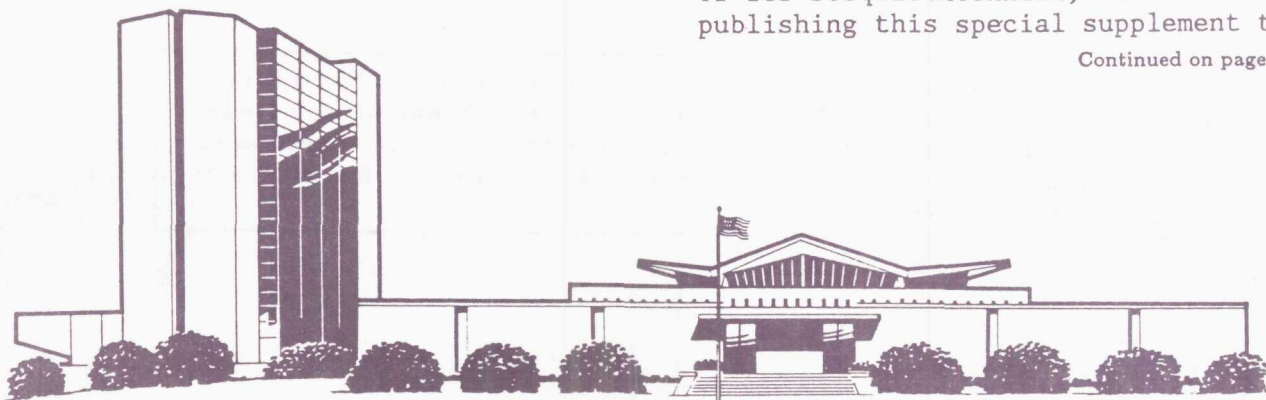
Fifteen Years Of MEDLINE: A Special Supplement

Donald A.B. Lindberg, M.D.
Director, National Library of Medicine

Fifteen years ago, in October 1971, the National Library of Medicine introduced to the biomedical community the first nationally available local-call online retrieval system--MEDLINE. The database contained approximately 147,000 citations from 236 journals and was accessible to an initial user group of 25 institutions four hours a day, Monday through Friday. Today MEDLINE and its Backfiles contain more than five million citations and are available virtually 24 hours a day, seven days a week to thousands of domestic individual and institutional users. Countless others access the database worldwide through the 15 non-U.S. MEDLARS Centers and through commercial vendors.

In conjunction with NLM's celebration of its sesquicentennial, we are publishing this special supplement to

Continued on page 8



MEDLARS MANAGEMENT SECTION STAFF

(With approximate years of service in MMS)

| | |
|-----------------------------|-----------------------------|
| Barbara Albright (5 years) | Lou Knecht (9 years) |
| Michele Alsheimer (2 years) | Annette Morris (2 years) |
| Peggy Beavers (3 years) | Scott Plutchak (2 years) |
| Jane Bryant (2 years) | Patricia Pothier (11 years) |
| Patricia Buchan (6 years) | Jane Rosov (4 years) |
| Lucie Chen (2 years) | Harriet Rusin (2 years) |
| Joyce Connor (2 years) | Barbara Ryan (16 years) |
| Lisa Granger (1 year) | Yvonne Scott (18 years) |
| Ann Ha (2 years) | Kathleen Stenger (2 years) |
| Kathi Hanrahan (11 years) | Carolyn Tilley (13 years) |
| Patricia Healy (8 years) | Karen Wallingford (4 years) |
| Joung Kim (1 year) | Dawn Wilson (1 year) |

A MEDLINE SNAPSHOT

August 1986, MEDLARS

| | |
|---|-----------|
| Total MEDLINE citations, including Backfiles | 5,064,880 |
| Total domestic User ID codes | 6,746 |
| Total domestic connect hours, August 1986 | 12,557 |
| Total domestic searches, August 1986 | 172,998 |
| Total domestic citations printed online, August 1986 | 2,947,707 |
| Total domestic citations printed offline, August 1986 | 1,497,675 |
| Total domestic offline print pages, August 1986 | 388,180 |

This special supplement was edited and prepared by T. Scott Plutchak and Patricia E. Healy with editorial assistance from Carolyn B. Tilley, Lou Wave S. Knecht, Kathleen Stenger, Patricia C. Buchan and the MEDLARS Management Section staff. Direct accolades to: MEDLARS Management Section, National Library of Medicine, Bldg. 38A, Rm. 4N421, 8600 Rockville Pike, Bethesda, Maryland 20894.

Technical Notes

The following Technical Notes present an historical perspective of the development of the MEDLINE databases on the MEDLARS system. Highlighted are significant achievements and events from the 15 years of MEDLINE service. Many of the Technical Notes are reprinted verbatim from previous issues of the NLM Technical Bulletin--others are extracted or adapted from NLM Technical Bulletin articles or announcements. In each case the source of the Technical Note is referenced. The early Technical Notes reference the NLM Technical Bulletin as it was known during the period October 1971-March 1977 -- Library Network/MEDLARS Technical Bulletin. In April 1977 the name of the publication was changed to its current title--NLM Technical Bulletin.

MEDLINE ANNOUNCED

Library Network/MEDLARS Technical Bulletin, Oct 1971, p.5

In October 1971 the National Library of Medicine initiated a new service, MEDLINE (MEDLARS Online), to provide an online bibliographic searching capability for medical schools, medical libraries, hospitals, and research institutions throughout the country. MEDLINE allows almost instantaneous searching of the medical literature.

The initial database consists of all the articles in the top 236 medical journals indexed for MEDLARS since January 1, 1969, with 147,000 citations. This data is being expanded and will cover over 1,000 journals and contain over 450,000 citations. MEDLINE operates on the IBM 360/50 computer of the National

Library of Medicine and can support up to 25 simultaneous users.

The Library is installing a data communication network to facilitate access to the service. The initial phase of the network will provide local numbers in Albany, New York; Cincinnati, Ohio; Atlanta, Georgia; Sacramento, California; Houston, Texas; and Denver, Colorado; special connecting lines will be extended from these network nodes to the Regional Libraries and MEDLARS Search Centers. By January 1972, the network will be extended so that the computer can be reached by a local call in at least twenty major cities.

Each user of the service will pay for his own terminal and telephone costs. The system can be used by teletype, TWX, IBM 2741, and other terminals operating at 100, 148, or 300 words per minute. User institutions can obtain appropriate terminals for as low as \$65 per month. In addition to paying these costs, user institutions must agree to send at least one person for training in the use of the system and, further, they must agree to provide bibliographic services to health professionals beyond their normal service responsibilities.

Development of MEDLINE has been spurred by the success of AIM-TWX (Abridged Index Medicus via the Teletypewriter Exchange Network), an experimental service developed in June 1970 by the System Development Corporation for the Library's Lister Hill National Center for Biomedical Communications and the Library Operations staff of NLM. The AIM-TWX database comprises citations to articles published in the last five years in 100 English-language journals in clinical medicine, plus a small number concerned with toxicology and other subjects.

NEW COMPUTER INSTALLATION
Library Network/MEDLARS Technical
Bulletin, Nov 1971, p.8

In December, the present IBM 360/50 will be replaced with an IBM 370/155 which will operate three times as fast. The service will be extended to eight hours a day (from the present four hours a day), 9:00 am-5:00 pm ET in January.

1972 MEDLINE TRAINING SCHEDULE ANNOUNCED
Library Network/MEDLARS Technical
Bulletin, Nov 1971, p.8

A tentative schedule for training MEDLINE users at NLM has been established. The three-week courses will be given starting on the following dates in 1972: January 17, February 28, April 10, August 21, October 2, November 6. In addition, tentative arrangements are being made with UCLA to provide training in that region.

TO OBTAIN MEDLINE SYSTEM NEWS
Library Network/MEDLARS Technical
Bulletin, Jan 1972, p.7

Presently there is no NEWS command in MEDLINE. To obtain system news, you must use a variation of the COMMENT command. See example below.

Form of Entry: "----- COMMENT"

PROG:
 SS 1/C? -- SEARCH STATEMENT 1 OR
 COMMAND:

USER:
 "----- COMMENT" (must be input in
 quotes with 8 hyphens, 1
 space, the word COMMENT)

MEDLINE COMMUNICATIONS NETWORK
Library Network/MEDLARS Technical
Bulletin, Jun 1972, p.8

In late February 1971, when a decision was made to implement the ELHILL bibliographic retrieval programs on the National Library of Medicine's computer, the Lister Hill Center Staff, with the assistance of the National Bureau of Standards, began an investigation of possible backbone communication networks which might offer the remote users of the NLM system an opportunity to lower their individual communications costs. Based on the experience of the AIM-TWX pilot project, there was a concern that unless the communications costs of the users could be reduced, the usage of any centralized retrieval system would be severely limited.

As a result of this investigation and a subsequent request for proposals, the NLM has negotiated contracts with the Western Union Corporation and the TYMSHARE Corporation for ADP/Telecommunications services which will constitute a backbone communications network for MEDLINE users. One advantage of the TYMSHARE segment of the MEDLINE network is that users will be able to access other computers on the network by dialing the same phone number as that used for MEDLINE.

MEDLINE CHARGES INTRODUCED
Library Network/MEDLARS Technical
Bulletin, Feb 1973, p.2

The National Library of Medicine will introduce a modest user charge for its online services by April 1. In order to allow adequate lead time to the MEDLARS Centers for necessary budget modifications, the system will not be fully implemented until July 1.

MEDLINE AT SUNY

Library Network/MEDLARS Technical Bulletin, Mar 1973, p.3

The MEDLINE and SDILINE databases are now also available at the State University of New York (SUNY) at Albany. These databases are identical at NLM and SUNY and are being run on the same programs.

MEDLINE ANALYSTS MEETING AT MLA--KANSAS CITY

Library Network/MEDLARS Technical Bulletin, Apr 1973, p.3

There will be an informal meeting of MEDLINE and MEDLARS analysts during the 72nd Annual Conference of the Medical Library Association to be held in Kansas City, Missouri, May 27-May 31, 1973. All persons trained at NLM or UCLA are invited to attend, as well as anyone who uses the system a great deal.

OFFSEARCH PRINTS

Library Network/MEDLARS Technical Bulletin, Feb 1975, p.3

OFFSEARCH print requests are printed by the NLM computer in Bethesda, Maryland each Wednesday and Saturday evening and mailed to the user the morning of the next working day. Users who have entered searches which retrieve '0' Postings should receive a cover page so indicating. If you have not received your search within one week from the day it should have been printed, please contact MEDLARS Management Section.

ABSTRACTS, MEDLINE & SDILINE

Library Network/MEDLARS Technical Bulletin, Feb 1975, p.3

When the ELHILL databases are updated with the 1975 Index Medicus citations, the MEDLINE and SDILINE files will begin including abstracts from selected journals. The abstracts will be taken from journal issues with a publication date of January 1975 and later. Detailed techniques for searching these abstracts will appear in a future issue of the Technical Bulletin.

EXPLODE MAIN HEADINGS OR TREE NUMBERS

Library Network/MEDLARS Technical Bulletin, Nov 1975, p.6

The searcher, in addition to using MeSH Tree Numbers for EXPLOSIONs, now has the ability to Explode on Main Headings (e.g., EXP CYSTS).

NONSERIAL LITERATURE, MEDLINE AND INDEX MEDICUS

Library Network/MEDLARS Technical Bulletin, May 1976, p.3

Index Medicus and MEDLINE are no longer limited strictly to references to articles from the journal literature. Beginning with the May 1976 issue, selected congresses, symposia, proceedings, and multi-authored monographs will be included. Because of the large amount of such literature, monographs will be selected carefully on the basis of quality, currency, and special interest to particular groups of

MEDLARS and MEDLINE users.
[Editor's note: Since 1981, monographs
have no longer been indexed for
MEDLINE or Index Medicus]

MEDLEARN

*Library Network/MEDLARS Technical
Bulletin*, Nov 1976, p.3

Effective November 1, 1976, all
MEDLINE subscribers will have access
to the computer-assisted instruction
(CAI) course *MEDLEARN*. This CAI
course is designed to teach users how
to search the NLM's bibliographic
retrieval system.

**ELIMINATION OF THE INITIAL
DOUBLE QUOTE**

NLM Technical Bulletin, Jun 1978, p.5

Effective July 3, 1978, a program
change will be in effect which will
allow users to input commands without
the leading double quote (") mark.

PRE-EXPLOSIONS IN THE MEDLINE FILES

NLM Technical Bulletin, Nov 1978, p.7

With the mounting of the 1979 MEDLINE
files, a new capability called
Pre-Explosion, has been added to
facilitate searching. It is designed
to overcome some of the processing
limitations of the Explode capability
that cause overflow conditions.

**SUNY SERVICE TO BE DISCONTINUED
DECEMBER 13**

NLM Technical Bulletin, Oct 1982, p.3

Effective December 13, 1982, MEDLARS
service on the SUNY computer will be
discontinued.

MEDLINE BACKFILES ONLINE

NLM Technical Bulletin, Oct 1982, p.7

With the increased capacity for
storage made available by the new IBM
3033 MP system, NLM plans to make all
the MEDLINE Backfiles available online
effective December 13, 1982.

NLM ANNOUNCES SUBSETS PROGRAM

NLM Technical Bulletin, Sep 1984, p.5

Subsets of the MEDLINE database are
now available on magnetic tape for
domestic users.

**ROUND-THE-CLOCK AVAILABILITY
FOR ELHILL FILES**

NLM Technical Bulletin, Apr 1985, p.7

Effective June 1, 1985, the ELHILL
files will be available virtually 24
hours a day, 7 days a week.

MEDLINE POCKET CARD

NLM Technical Bulletin, Oct 1985, p.9

A new MEDLINE Pocket Card is now

available. This pocket card is intended to provide users with a quick reference to many commonly-used MEDLINE procedures.

**NLM INTRODUCES GRATEFUL MED:
A USER-ASSISTED INTERFACE
TO MEDLINE AND CATLINE**

NLM Technical Bulletin, Feb 1986, p.1

On February 5, 1986, NLM unveiled a new front-end software package for accessing NLM's MEDLINE, MEDLINE Backfiles and CATLINE databases via a personal computer. This software,

named GRATEFUL MED, is designed to simplify the search process for an untrained or novice user. Health professionals, scientists, and others with a need for medical information can use GRATEFUL MED to search MEDLINE, its Backfiles, and CATLINE without knowledge of NLM's ELHILL search system, controlled vocabulary (MeSH), or database structure. Experienced searchers can use "expert mode" to take advantage of some useful and time-saving features, such as automatic login and downloading of citations in any of the MEDLARS databases except those on the TOXNET system.

Continued from page 1

the NLM Technical Bulletin to honor NLM's premier database. Included in this issue are the reminiscences of individuals involved in the planning and implementation of the online system as well as the thoughts of some of those "brave" individuals who first conquered the online frontier.

I hope you will take time to read and enjoy this supplement. Medical information has come a long way in this last 15 years and MEDLINE was at the forefront of what came to be known as the "online revolution." NLM is proud to have played a central role in this revolution.

The First 25 MEDLINE Users

The following list contains the names of the first 25 MEDLINE users. All were given access to the system on October 29, 1971.

College of Physicians Library, Philadelphia, PA
 Emory University, A.W. Calhoun Medical Library, Atlanta, GA
 George Washington University Hospital Library, Washington, DC
 Georgetown University Medical Center, J.V. Dahlgren Library,
 Washington, DC
 Harvard University, Francis Countway Library, Cambridge, MA
 John Crerar Library, Chicago, IL
 National Library of Medicine, Mid-Atlantic Regional Medical Library,
 Bethesda, MD
 National Library of Medicine, Reference Services Division, Bethesda,
 MD
 National Institutes of Health Library, Bethesda, MD
 New York Academy of Medicine, New York, NY
 Ohio State University College of Medicine, Health Center Library,
 Columbus, OH
 System Development Corporation, Santa Monica, CA
 Texas Medical Center, J.H. Jones Library, Houston, TX
 University of Alabama, Lister Hill Library, Birmingham, AL
 University of California at Los Angeles, Biomedical Library, Los
 Angeles, CA
 University of Colorado, Charles Denison Memorial Library, Denver, CO
 University of Pittsburgh, Falk Library, Pittsburgh, PA
 University of Texas, Medical School Library, Dallas, TX
 University of Virginia, Medical School Library, Charlottesville, VA
 University of Washington, Health Sciences Library, Seattle, WA
 VA Hospital Library, Washington, DC
 Walter Reed General Hospital Library, Washington, DC
 Wayne State University, Shiffman Medical Library, Detroit, MI

MEDLINE At Fifteen: Getting There

Editor's note: For this special supplement we have asked a variety of individuals who were involved in the early days of MEDLINE as developers and users to share some of their thoughts on this fifteenth anniversary. We hope these present some sampling of the feelings and reminiscences of the thousands of individuals who have played some part in the short history of MEDLINE so far.

From MEDLARS To MEDLINE

Martin M. Cummings, M.D.

MEDLARS I, designed by Dr. Frank B. Rogers, was a remarkable achievement at the time of its implementation in 1964. However, it became evident that the batch mode of responding to search requests did not provide timely responses to the users. Although the decentralization of MEDLARS to several universities improved the system's performance, it became clear that planning should take place immediately for upgrading the efficiency of the MEDLARS system.

The first large-scale evaluation of any large operating information system was performed on MEDLARS by F.W. Lancaster in 1965 [Lancaster, F. Wilfrid, Evaluation of the MEDLARS Demand Search Service, (National Library of Medicine, Bethesda, MD, 1968)]. This study revealed the need to improve the vocabulary of Medical

Subject Headings and subheadings used for indexing the biomedical literature. This improvement was accomplished through the work of Dr. Peter Olch and Dr. Norman Shumway with the assistance of subject experts in the biomedical community. They also reviewed the quality of the journals selected for Index Medicus and MEDLARS. These actions led to greater user satisfaction and a rapid increase in demands for service.

In 1969, MEDLARS II was planned by Dr. Joseph Leiter and his staff. This plan suggested that online indexing and vocabulary development would be useful. Taking these specifications, Dr. Ruth Davis and Mr. Davis McCarn of the newly created Lister Hill National Center for Biomedical Communications, engaged the System Development Corporation to develop an online prototype which was called AIM-TWX. Abridged Index Medicus was used as the database while the Teletypewriter Exchange Network formed the communications system. The successful performance of AIM-TWX led to its further development as MEDLINE (MEDLARS onLINE) in 1971. This highly creative utilization of new computer technology was rapidly extended to include other databases including those now known as TOXLINE and CHEMLINE. Credit for these important developments are due to Dr. Henry Kissman and Mr. Bruno Vasta of the Specialized Information Services.

The powerful capabilities of MEDLINE and MEDLARS, which provide several million searches per year in support of medical research, education, and patient care, are a brilliant example of the creativity, innovation, and commitment to improved service which have characterized the National

Library of Medicine since its founding in 1836.

Dr. Martin M. Cummings is Director Emeritus of the National Library of Medicine. He was Director, NLM from 1964 to 1983.

Fifteen Years of Excellence and Innovation

Joseph Leiter, Ph.D.

It is difficult to resist feeling nostalgic about the early days of MEDLINE. The painful trials and tribulations of those first days have long since been transformed into more pleasant memories.

Among the principal factors that have kept MEDLINE well ahead as the leading database for medical information is the excellent quality of its content. The unsung heroes in this endeavor have been the indexers and revisers who have provided a quality product that has been unexcelled. The Medical Subject Headings (MeSH) provided the medium that enabled indexers to establish a consistent base.

Although it is now taken for granted, we must not overlook the pioneering contribution of Davis McCarn in exploiting commercial network resources to establish a value-added network. This reduction of telecommunications costs was a critical factor in the explosive development of online services.

Other unsung heroes are the staff in MEDLARS Management who provided the

man-machine interfaces by training librarians on the effective use of the system and then in providing support for the network.

These past fifteen years have seen a democratization and decentralization of the system. Access no longer requires long and sometimes onerous training periods. MEDLINE provided the mortar which finally cemented together the Regional Medical Library into a truly integrated network.

Dr. Joseph Leiter retired as Associate Director for Library Operations, National Library of Medicine in 1983. He had been in that post since 1965.

In The Beginning...

Davis B. McCarn

Before there was even a Lister Hill Center, a small R&D staff assembled at NLM to try to improve the delivery of health information. One of its first actions was to review the specifications for MEDLARS II which did not then provide an online searching capability. The R&D staff demonstrated the feasibility and utility of several online services, particularly the pioneering system developed at the State University of New York. The R&D staff also funded an analysis by the System Development Corporation of the features that a good system should include.

This experimentation and analysis finally led to the first nationwide experimental service, AIM-TWX, the Abrridged Index Medicus via the TWX

network. This service made its debut at the Medical Library Association conference in New Orleans in May 1970, and the service was an instant success. Ninety institutions had become users after the first three months. All doubts about the demand for online access to MEDLARS were resolved.

Following this, planning began immediately on an expanded service to provide access to a larger database in a less costly manner. (AIM was too small, and TWX was too expensive.) The new service, MEDLINE, based on NLM's IBM 360 computer, began on October 29, 1971. By February 1972, the database had been expanded to include all priority one journals, the 360 had been replaced with an IBM 370, and this computer had been connected to TYMNET (then known as TYMSHARE) as the first user of a value-added network.

The original MEDLARS II contract had been cancelled in April 1971 when it was seen that the original plans were inadequate to the capabilities then being discovered. The second MEDLARS II contract, awarded in June 1971, was based on the online searching software being used for AIM-TWX. Thus MEDLINE became the parent to MEDLARS II, which was successfully completed in early 1975. MEDLARS II included such features as improved maintenance facilities, authority control, mapping, and enhanced photocomposition, and allowed for the expansion of the system to eventually include the more than 20 databases available on MEDLARS today.

Davis McCarn is now president of Online Information International, Inc., and is the developer of GRATEFUL MED. In 1971 he was Acting Director, Lister Hill National

Center for Biomedical Communications, NLM. He was Associate Director, Office of Computers and Communications Systems, NLM from 1972 to 1976.

Database Searching: Then and Now

Betsey S. Beamish

The June 1986 NLM Technical Bulletin announced that formal training is no longer necessary for accessing the MEDLINE databases. This ends a twenty-year tradition of requiring users to take NLM-sponsored training classes. In 1965, the first three people to receive formal training, including Bob Lewis and me from the UCLA Biomedical Library, and Fred Pattison from the American Journal of Nursing, were exposed to three months of indexing and three months of searcher training at NLM. One fond memory that I have from these classes was Thelma Charen's encouragement and excellent teaching, which guided us through the complex task of indexing.

Those early days of searching were marked by pre-punched cards and two-week turn-around times. At the UCLA Biomedical Library, searches encoded in pre-punched MeSH vocabulary cards were batched and mailed to NLM for centralized processing. The end products of the search requests, printed bibliographies, were then mailed back to the searcher from NLM. As cumbersome as this system was, it offered an advantage: searches could be requested at a location outside of NLM. The UCLA Biomedical Library, under contract from NLM, handled

search requests directly from medical school faculty, practitioners and researchers. The University of Colorado, also under contract from NLM, was the first to offer NLM search services, and even processed their own searches.

These two schools formed the beginnings of what is now a worldwide network of medical libraries offering online access to NLM's databases. In contrast to a small number of medical librarians who were trained in 1965, thousands of health professionals and librarians currently are trained every year in NLM-sponsored classes.

Betsy Beamish is now a hospital library consultant based in California. She was a MEDLARS searcher at UCLA Biomedical Library from 1965 to 1969.

MEDLINE's Fifteenth Birthday

Lois Ann Colaianni

What an exciting day it was in 1965 when, while I was an intern in biomedical librarianship, Louise Darling inquired if I would be interested in a position as a MEDLARS searcher! She explained that the National Library of Medicine was decentralizing its new MEDLARS batch search and retrieval capability. Duplicate copies of the MEDLARS tapes were to be made available for searching on local computers at institutions throughout the country.

During the first phase of this decentralization, a small network of regional MEDLARS Search Centers would be developed. The Biomedical Library at UCLA was to be one of these pilot Centers. The idea of being able to produce literature searches by searching a file of machine-readable citations intrigued me and I quickly indicated my interest. At that time, the impact of this embryonic project on the future of information services was not obvious to many.

The effective use of telecommunications networks and terminals to access the MEDLARS databases at NLM in the 1970's temporarily slowed interest in the local processing of MEDLARS data. Over two decades later however, a number of institutions are now taking advantage of the increased power of small computers to mount NLM databases and provide search and retrieval capabilities locally. If the promise of compact disk technology is realized, storing and retrieving data for institutional or personal use will be easily accomplished.

This fall as MEDLINE's 15th birthday is celebrated and we think back over the years since MEDLARS was introduced, we can more fully appreciate the substantial changes that have occurred in searching machine-readable databases. However, the excitement is far from over. The future holds at least an equal measure of stimulating change.

Lois Ann Colaianni is presently Associate Director for Library Operations, National Library of Medicine. She was an intern at the UCLA Biomedical Library in 1965.

MEDLINE Training and the Transition to Online

James F. Williams II

As you can imagine, the opportunity to spend three weeks at NLM and to be trained on the new system in the initial training course was both an honor and a privilege. After we arrived and were told that the traditional training for MEDLARS search analysts had been an intense six months, we were sure that our training would be on the most advanced system extant. And so it was. All the time we were training, our thoughts were filled with how great it would be to have the system available on site for use at our fingertips, without the necessity for an intermediary.

The training was structured, comprehensive and well-planned. My terminal partner (Eloise Foster) and I spent many nights at NLM doing our homework (training assignments, including exercises), and I'll always remember our joy at having the system to ourselves after the NLM staff had left for the day. When it was all over, I recall that my only criticism was that the training had concentrated too much on indexing; Thelma Charen had done an excellent job at preparing me to think like an indexer. The transition from indexer to search analyst was not, consequently, too smooth for me as I recall being oriented towards narrow specificity in my early searches, and in training sessions I designed and conducted at the local level.

I can say without any reservations that the training session was an invaluable experience for me. Aside from the searching skills attained, I was a better librarian, and my

perspectives on access to the scholarly record of medicine were broadened tremendously. Likewise, the transition from mail-in search requests to onsite, online search generation had an immediate and lasting impact on the research capacity of my institution. All aspects of library operations were affected by the advent of online services, from collection development to faculty liaison programs to document delivery services. And, as we look back to those early days in the seventies and think of how the MEDLINE system served as a precursor to automated bibliographical control and retrieval as we know it today, those of us in that initial training course know without a doubt that we were trained on the "most advanced system extant."

James Williams is Director, University Libraries, Wayne State University, Detroit, Michigan. In 1971 he was a reference librarian at Wayne State.

Remembering...MEDLINE's First Fifteen Years

Eloise C. Foster

It seems like only yesterday that I attended the first MEDLINE training session as a staff member with the Southeastern Regional Medical Library Program. Yet it was 1971 and this year marks the fifteenth anniversary of MEDLINE. I am personally proud to have been a part of the development of the National Library of Medicine's online network as a searcher, Regional

Medical Library Program administrator, catalyst for the development of the Health Planning and Administration database, and promoter of this network and what it can do for individual health care professionals.

Throughout the years, dedicated and committed staff at the National Library of Medicine have combined leadership and vision with service to network users. The result has been a network without peer and one that has influenced others in both the public and private sectors. Technological advances have constantly enhanced the usefulness of the system; additional files have been developed, often in cooperation with other organizations; education and training have always been available to both new and seasoned system users; and the National Library of Medicine has been receptive to feedback from its varied clientele.

Today our library patrons take it for granted that a search can be performed while they wait...or that they can perform their own searches. In 1971, our patrons were grateful they would no longer have to wait three or four weeks for a MEDLARS retrieval. Results obtained from use of the network contribute to the support of patient care, education, administration, and research in local settings throughout the world.

On this fifteenth anniversary of MEDLINE's introduction, we pause to reflect both about the past and about the future impact such changes will have on the biomedical community. We also share with the National Library of Medicine our thanks for past accomplishments and our support for undertaking new initiatives.

Eloise Foster is the Director of the AHA Resource Center, American Hospital Association, Chicago, Illinois. She was a staff member with the Southeastern Regional Medical Library Program in 1971.

Reminiscences on the Occasion of the 15th Anniversary of MEDLINE

J. Michael Homan

When I arrived green from graduate school to begin work as a USPHS intern at the UCLA Biomedical Library in 1971 I didn't immediately grasp the fact that a new age of information access was beginning to unfold. Very soon, however, I was caught-up in the excitement of AIM-TWX, the then new online database available exclusively (and free of charge!) from the SDC computer in Santa Monica. I remember the feeling of exhilaration and satisfaction of finally understanding the concepts of the online surrogate record, searchable fields, and Boolean logic (thanks to the patience and teaching skills of the UCLA MEDLARS Search Center staff). An even greater sense of satisfaction occurred when I started using AIM-TWX and the iterative search process to check my MEDLARS formulations as an online quality control check prior to a MEDLARS full-file batch search. This prevented reruns which caused a long delay for users, and prevented the much more dreaded possibility of having the staff at NLM revise my MEDLARS batch formulation because of some error!

A MEDLARS indexing class at NLM preceded my online training class by several weeks in 1971. Having your first indexing attempt revised by Thelma Charen (The Medical Indexer Assoluto) could also be considered an exhilarating experience of sorts! I remember quite vividly receiving a hot pink note attached to a hemorrhaging indexing data form (my first attempt; Mrs. Charen's corrections in red ink) with the admonition "What young indexer out of the golden west forgot to coordinate PREGNANCY and FEMALE?" (I was indexing Ob/Gyn journals as I recall.) You can be sure I remember the concept of redundant indexing to this day. My online class, which immediately followed the indexing class, went very smoothly except for one afternoon when a student familiar with the MEDLARS batch searching techniques tried to "OR" together 8 or 10 of the D subcategories (Chemicals and Drugs--e.g., D1 or D2 or D3, etc.). The computer was not programmed to time slice in 1971, and the entire country came to a screeching halt while the D category search was processed. The computer churned away on that search alone for 15 or 20 minutes.

My fondest memories of the early days

of online searching are related to the MEDLINE training program established at UCLA under NLM auspices. There is a tremendous sense of accomplishment for an instructor when students totally unfamiliar with online searching develop new technical skills in the relatively short training sessions. In the early days of training, most students had never seen an online terminal, much less worked with one. This situation sometimes led to a condition known as "terminal hysteria," characterized by a red face and partially paralyzed fingers. Following a detailed explanation of the EXPLODE capability during a one-on-one tutorial session, one student afflicted with terminal hysteria was asked to tell the computer to EXPLODE a MeSH Tree Number. The student looked at the terminal, then at the instructor, and finally looked back at the terminal before audibly exclaiming "Explode!" in a rather forceful manner. Ah...those were the days!

Michael Homan is Head, Information Services & Central Technical Documents of the Corporate Technical Library, The Upjohn Company, Kalamazoo, Michigan. In 1971 he was an intern at the UCLA Biomedical Library.

MEDLARS...or MEDLINE ...or ELHILL...or What? A primer of NLM terminology

T. Scott Plutchak
Index Section, NLM

In the beginning was created Index Medicus. And Index Medicus was computerized, and from the fruits of that labor was brought forth MEDLARS. And MEDLARS begat AIM-TWX which begat MEDLINE. And MEDLINE's kindred were called TOXLINE, CATLINE, SERLINE, CANCERLIT, and a host of others. And from out of the land of Nod to the East there came the mysterious TSO and its helpmeet INQUIRE, and they brought forth MEDLEARN and PDQ, the User-Friendly. Then MEDLARS begat TOXNET which begat HSDB and CCRIS. And the names by which MEDLARS and its descendants called themselves were legion...

Back in the early sixties, when the National Library of Medicine first began experimenting with computerized retrieval of information from databases, the system was called MEDLARS, for Medical Literature Analysis and Retrieval System. This name still stands as the umbrella over the wide variety of systems and databases and databanks that NLM employs to gain access to the world's medical knowledge; but as NLM searchers know, there are many other terms involved and the relationships between them can often seem arcane and confusing. The remarks below and the chart that follows are meant to elucidate those relationships and clarify the meanings of the various terms themselves.

MEDLARS is now operated on two computers, one located at the National Library of Medicine in Bethesda, Maryland, just outside of Washington, DC; and one located "up the pike" in

Kensington, Maryland. These computers support different parts of the system and do not communicate with each other in any way (although this may change in the future).

The computer at NLM supports the bulk of the MEDLARS operations. Nearly all of the publicly available databases are searched using a set of programs called ELHILL3 (usually referred to just as ELHILL). The name ELHILL was chosen in honor of Senator Lister Hill (L.Hill) from Alabama. He and then Senator John F. Kennedy sponsored the legislation in 1956 that transformed the Armed Forces Medical Library into the National Library of Medicine.

Three copies of the ELHILL programs are normally running simultaneously and it is one of these to which the user is connected when dialing to NLM. Hence the welcome message: Welcome to the National Library of Medicine's ELHILL Retrieval System.

It is ELHILL that gives the message SS 1 /C? USER:, that prompts CONTINUE PRINTING? (Y/N), that shows how many PSTG a search has retrieved, and that tells how much the whole thing cost when the user logs off. ELHILL itself, of course, contains no information; that is found in the databases themselves.

The databases are nothing more than huge record files and associated indexes, from which ELHILL picks and chooses at the direction of the user. They generally contain lists of bibliographic references to published literature (although there is considerable variation among them) and constitute the most familiar MEDLARS names at NLM and around the world: MEDLINE, TOXLINE, CATLINE, DIRLINE and all the others. When a MEDLARS Management staff member refers to "the ELHILL databases" in response to a telephone query, these are the ones being talked about.

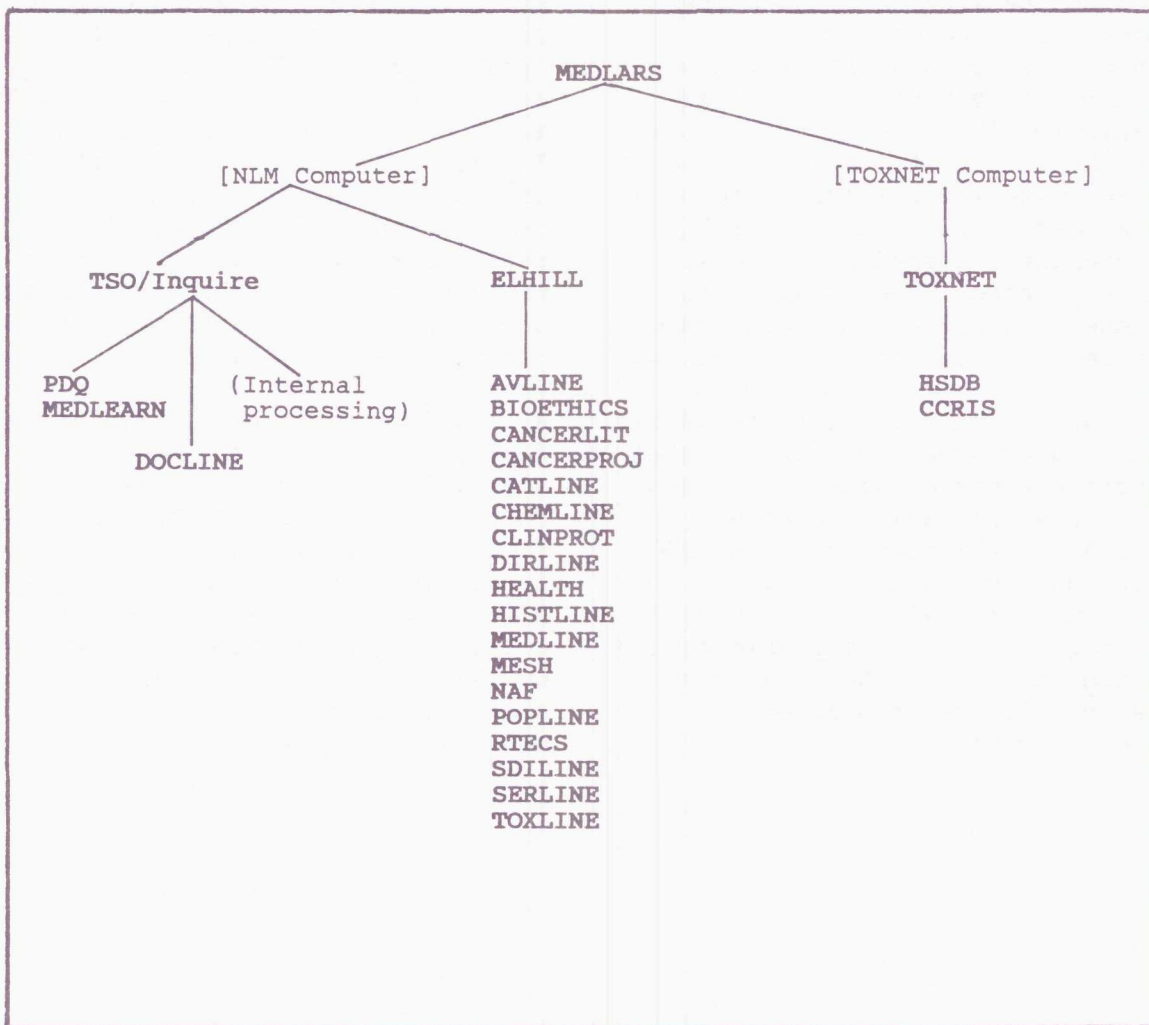
By no means all of MEDLARS' useful information is controlled by ELHILL. Using a slightly different set of access instructions, a MEDLARS searcher can enter the world of TSO -- Time Sharing Option. This is the area of the computer where the Library's internal processing operations are performed, and the major piece of software here is a set of programs from Infodata Systems, Inc. called INQUIRE. INQUIRE is somewhat similar to ELHILL in that it can be used to manipulate the information found in computerized files, but where ELHILL was expressly designed for a very specific purpose, INQUIRE was designed as a general purpose tool that could be applied in a variety of situations.

MEDLARS users enter TSO for one of two reasons: to use the computer-assisted instruction program called *MEDLEARN*, or to access the National Cancer Institute's user-friendly system PDQ. Readers who have followed the discussion so far will now understand why it requires separate passwords and procedures to access these -- they reside in a different part of the computer from the regular ELHILL

system.

On the second computer in Kensington is the newest part of the MEDLARS system, TOXNET. TOXNET itself is not a database, but is a set of programs modelled after, and similar to, ELHILL. These programs are designed for searching databanks, rather than databases, and TOXNET now has two: the Hazardous Substances Databank (HSDB) and the Chemical Carcinogenesis Research Information System (CCRIS). Whereas the databases like MEDLINE contain lists of bibliographic references, databanks contain bodies of information gathered from a variety of sources. As a database is to an index, so a databank is to a textbook.

All MEDLARS users have this entire family of information sources available to them. As time goes on there will undoubtedly be more; the family tree will continue to grow larger and more complex. We have come a long way from the day when MEDLINE could be said to stand for MEDLARS OnLINE, but MEDLARS itself will always stand for quality access to the medical knowledge of the world.



MEDLARS

Computer Savvy

After 15 years of online MEDLINE many of you have "conquered" searching, but, are you computer savvy? Why not take this test to see just how computer savvy you are?!

1. When you hear the word 'byte', what do you think of first?
 a) food b) vampire c) computer characters _____
2. When you hear the words 'user friendly', what do you think of first?
 a) ice cream b) an airline c) easily used computer program _____
3. When you hear the words 'end user', what do you think of first?
 a) last person in line b) toilet paper c) computer searcher _____
4. When you hear the word 'software', what do you think of first?
 a) negligee b) melted tupperware c) computer program _____
5. When you hear the words 'front end', what do you think of first?
 a) auto bumper b) a buxom woman c) computer interface _____
6. When you hear the words 'GRATEFUL MED', what do you think of first?
 a) your rich doctor b) a rock group c) NLM's computer interface _____
7. When you hear the word 'online', what do you think of first?
 a) ticket line for a rock concert b) a tightrope c) computers _____
8. When you hear the word 'baud', what do you think of first? _____
 a) house of ill-repute b) what chess is played on
 c) data transmission speed
9. When you hear the word 'duplex', what do you think of first?
 a) your home b) something doubly complex c) transmission echo _____
10. When you hear the word 'parity', what do you think of first? _____
 a) a special fruit b) stocks & bonds or farmers c) computer error
 check
11. When you hear the word 'Apple', what do you think of first?
 a) New York b) a fruit c) a personal computer _____

12. When you hear the word 'modem', what do you think of first?
a) pie with ice cream b) southern expression for lawn cutting
c) data signal processor _____
13. When you hear the word 'Elhill', what do you think of first?
a) spanish mountain b) Alabama senator c) NLM's computer system _____
14. When you hear the word 'floppy', what do you think of first?
a) a pair of sandals b) Easter rabbit c) computer disk _____
15. When you hear the expression 'boot it up', what do you think of first?
a) square dancing b) Nancy Sinatra's song c) re-loading a pc _____
16. When you hear the word 'downloading', what do you think of first?
a) trucks going uphill b) losing weight c) printing on disks _____
17. When you hear the word 'diskette', what do you think of first?
a) a female disk b) a tiny nightclub c) computer storage device _____
18. When you hear the word 'dos', what do you think of first?
a) laundry detergent b) a German leader c) an operating system _____

SCORING

Score one for every question you answered correctly. Note that letter 'C' is the correct response to each question.

If your score falls between 1 and 7, you are either a new-searcher or you have a terrific sense of humor.

If your score falls between 8 and 13, you've been searching for a while and are just teasing about the questions you entered incorrectly.

If your score falls between 14 and 18, you're computer savvy alright - but you have to admit the other answers were pretty cute, eh!

THE
GRATEFUL MED Users
See page 14

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OCTOBER 1986

No. 210

NLM Technical Bulletin

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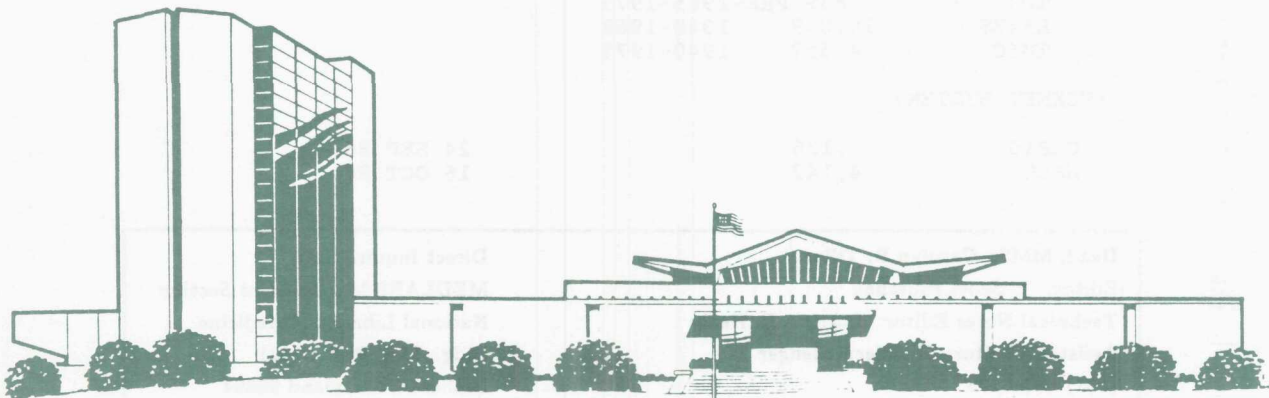
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Special Year-End Processing Issue

This issue of the *NLM Technical Bulletin* contains an expanded Technical Notes section, concentrating on issues related to year-end processing. Year-end processing involves large-scale maintenance of MEDLINE, the MEDLINE Backfiles, HEALTH, and the CANCERLIT databases, primarily to reflect changes in the MeSH (Medical Subject Headings) vocabulary. The results of these operations may have a substantial impact on searchers, particularly those with SAVESEARCHes and those who participate in the Automatic SDI program.

Various Technical Notes discuss these changes and operations in detail and include the dates when these changes take effect. Searchers should pay careful attention to these dates in order to plan for the updating of SAVESEARCHes.

The Technical Notes begin on page 3.



| DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|-----------------|---------------|-------------------------------|-------------------|-------------------|
| (ELHILL SYSTEM) | | | | |
| AVLINE | 15,422 | THROUGH 1986 | 23 OCT 86 | |
| BIOETHICS | 21,252 | JAN 73-1986 | 11 OCT 86 | 8610(EM) |
| CANCERLIT | 547,950 | JAN 63-AUG 86 | 04 OCT 86 | 8610(EM) |
| CANCERPROJ | 10,183 | THROUGH 1986 | 05 JUL 86 | 8607(EM) |
| CATLINE | 609,279 | THROUGH 1986 | 23 OCT 86 | |
| CHEMLINE | 702,056 | | 11 OCT 86 | 8610(EM) |
| CLINPROT | 5,690 | | 23 OCT 86 | 8610(EM) |
| DIRLINE | 15,557 | | 21 OCT 86 | |
| HEALTH | 358,570 | JAN 75-NOV 86 | 11 OCT 86 | 8611(EM) |
| HISTLINE | 74,325 | | 04 OCT 86 | 8610(EM) |
| MEDLINE | 745,027 | JAN 84-NOV 86 | 04 OCT 86 | 8611(EM) |
| MED83 | 286,600 | JAN 83-DEC 83 | 11 OCT 86 | |
| MED80 | 804,746 | JAN 80-DEC 82 | 13 SEP 86 | |
| MED77 | 775,043 | JAN 77-DEC 79 | 04 OCT 86 | |
| MED75 | 642,612 | JAN 75-DEC 76 | 19 MAY 86 | |
| MED71 | 882,903 | JAN 71-DEC 74 | 16 AUG 86 | |
| MED66 | 954,368 | JAN 66-DEC 70 | 12 AUG 86 | |
| MESH VOC | 58,608 | 1986 | 27 OCT 86 | |
| NAME AUTH | 279,114 | | 27 OCT 86 | |
| POPLINE | 151,438 | 1970-OCT 86 | 11 OCT 86 | 8610(EM) |
| RTECS | 82,973 | THROUGH JUL 86 | 14 AUG 86 | |
| SDILINE | 26,458 | NOV 86 | 04 OCT 86 | 8611(EM) |
| SERLINE | 67,534 | 1986 | 20 SEP 86 | |
| TOXLINE | 864,132 | | 18 OCT 86 | 8610(EM) |
| CBAC | 472,238 | 1981-VOL 105(5,6,7) | | |
| TOXBIB | 188,619 | 1981-NOV 1986 | | |
| IPA (ASHP) | 39,714 | 1981-VOL 23(19,20) | | |
| BIOSIS | 46,223 | SEP 1986 | | |
| HEEP | 49,788 | 1981-VOL 14(8) | | |
| PESTAB | 1,536 | 1981 | | |
| EMIC | 12,899 | 1981-MAR 1986 | | |
| ETIC | 13,864 | 1981-JUN 1986 | | |
| TD3 | 25,486 | 1981-GRA&I 86(16,17) | | |
| HMTC | 1,869 | 1981-APR 1986 | | |
| ILO | 4,915 | JUL 1986 | | |
| RPROJ/CRISP | 16,086 | FISCAL YEARS 1983, 1984, 1985 | | |
| ANEUPLOIDY | 3,593 | 1969-JUN 1986 | | |
| TOXBACK76 | 555,808 | | 27 AUG 84 | |
| CBAC | 298,383 | 1976-1980 | | |
| TOXBIB | 106,643 | 1976-1980 | | |
| IPA (ASHP) | 33,321 | 1976-1980 | | |
| HEEP | 63,796 | 1976-1980 | | |
| PESTAB | 14,757 | 1976-1980 | | |
| EMIC | 17,267 | 1976-1980 | | |
| ETIC | 11,970 | 1976-1980 | | |
| TD3 | 9,671 | 1976-1980 | | |
| TOXBACK65 | 598,424 | | 27 AUG 84 | |
| CBAC | 287,992 | 1965-1975 | | |
| TOXBIB | 155,387 | 1965-1975 | | |
| IPA(ASHP) | 33,876 | 1969-1975 | | |
| HEEP | 54,075 | 1970-1975 | | |
| HAPAB/PESTAB | 18,416 | 1968-1975 | | |
| EMIC | 19,554 | 1950-1975 | | |
| ETIC | 13,694 | 1950-1975 | | |
| TD3 | 839 | PRE-1965-1975 | | |
| HAYES | 10,039 | 1940-1968 | | |
| TMIC | 4,552 | 1940-1975 | | |

(TOXNET SYSTEM)

| | | |
|-------|-------|-----------|
| CCRIS | 1,136 | 24 SEP 86 |
| HSDB | 4,142 | 16 OCT 86 |

Head, MMS: Carolyn B. Tilley
 Editor: T. Scott Plutchak
 Technical Notes Editor: Patricia E. Healy
 Assistant Editor: Kathleen Stenger
 (301) 496-6193

Direct Inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 Bldg., 38A, Rm. 4N421
 Bethesda, Maryland 20894

Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 that is considered most relevant to the item being discussed, e.g., (Manual 2.9). Users should keep in mind that the item may pertain to other section of the Manual as well.

SCHEDULED DOWNTIME DECEMBER 13 & 14

The NLM computer will be unavailable on Saturday, December 13, 1986 and Sunday, December 14, 1986, in order to install the MEDLINE/SDILINE/BACKFILES, HEALTH and CANCERLIT databases class-maintained with the 1987 Medical Subject Headings. Please see the Technical Notes in this issue titled, "YEAR-END PROCESSING" and "CANCERLIT YEAR-END PROCESSING AND AUTOMATIC SDIs" for additional information about the change to the 1987 databases.

THANKSGIVING HOLIDAY COMPUTER SCHEDULE

The NLM computer will be up on a non-guaranteed basis on Thursday, November 27, 1986, Thanksgiving Day. Non-guaranteed hours will be in effect from 11:15 pm Eastern Time (ET) on Wednesday, November 26, 1986 to 11:15 pm ET on Thursday, November 27, 1986. This means that if the computer fails at any time after 11:15 pm ET on November 26, it is unlikely to be restarted until after 11:15 pm ET November 27. The computer room will not be staffed on November 27. Non-prime rates will be in effect all day. The MEDLARS Management Service Desk will not be staffed.

DOSE & SCHEDULE MODIFICATION INFORMATION TO BE ADDED TO PDQ

The National Cancer Institute (NCI) anticipates that it will be adding dose and schedule modification information to the PDQ Protocol file in November. Specific data on dose and schedule modification for treatment-induced toxicity to normal organs will assist clinicians in the management of patients undergoing treatment. This information will be provided initially for approximately 115 phase III protocols. Eventually, all phase III protocols should have dose modification data. This information will be printable, but not searchable. Further details will be included in the PDQ online news and the *NLM Technical Bulletin* as they become available.

NEW DIRLINE SUBFILE

In October, a new subfile will be added to the DIRLINE database. This subfile, known as DRACON (for Drug Abuse Communications Network), contains data obtained from a group of clearinghouses that specialize in drug abuse information. Some of these clearinghouses also have information on alcohol abuse and mental health issues.

The subfile was prepared by the National Clearinghouse for Drug Abuse Information from data supplied by the individual clearinghouses. Initially the subfile will contain information about 50 of the DRACON centers. As additional DRACON centers supply information about their activities to the Clearinghouse, it will be added to the subfile. There are approximately 100 DRACON centers.

The DRACON subfile will be identified in DIRLINE by the acronym, DRA, in the Secondary Source Identifier (SI) field. A future issue of the *NLM Technical Bulletin* will contain a detailed article describing this subfile.

CLINPROT INDEX TERM LISTING

The CLINPROT Index Term listing for September 1986 is now available. It may be requested by writing to the MEDLARS Management Section. Please include a self-addressed label with your request. No return postage is necessary.

1986 BIOETHICS THESAURUS AVAILABLE

The 1986 edition of the *Bioethics Thesaurus*, the controlled vocabulary used for indexing BIOETHICSLINE, is now available. It can be purchased for \$5.00 (prepaid) from the BIOETHICS Information Retrieval Project, Kennedy Institute of Ethics, Georgetown University, Washington, DC 20057. Terms from this thesaurus are searchable in the KW (Keyword) field of the online database.

ADDENDUM TO MEDLARS PRICING SCHEDULE

Effective October 1, 1986, there will be a \$25.00 charge for a sample tape of an NLM database produced in advance of signing a tape license agreement. This is standard practice for the NLM Subset Program and is now being extended to all types of tape licensees. Please amend your "NLM DOMESTIC AND FOREIGN CHARGES AND MINIMUMS FOR ONLINE SERVICES AND LEASING TAPE COPIES OF DATABASES, Effective January 1, 1986" to reflect this new charge. This document was last published as Appendix A to the April 1986 *NLM Technical Bulletin*.

YEAR-END PROCESSING

The 1987 MEDLINE and HEALTH files are expected to be available online with January 1987 data on Monday, December

15, 1986. At that time, all searches using MeSH must conform to the *Medical Subject Headings, 1987*. (Please see also the following Technical Note on the availability of CANCERLIT with 1987 MeSH vocabulary.) Changes to the MeSH vocabulary for 1987 are reflected in the various lists contained in the preface to the *Medical Subject Headings--Annotated Alphabetic List, 1987*. This publication has been available from the National Technical Information Service since the end of September; order information was given in the August 1986 *NLM Technical Bulletin*, p. 5.

When using these lists, please note that:

- 1) Three of the four lists of new headings ("New Medical Subject Headings with Previous Indexing," "New Medical Subject Headings with Scope Notes," and "New Medical Subject Headings by Subcategory") contain only those headings that were not in the 1986 MeSH. They do not include new forms of existing headings; these appear in the list titled, "New Medical Subject Headings Replacing Deleted Headings."
- 2) Deleted headings in the two lists, "New Medical Subject Headings Replacing Deleted Headings" and "Deleted Medical Subject Headings with Replaced-By Headings," followed by (en) or (ep) may still be used as search terms. (A deleted heading followed by (ep) is a printed "see" cross reference. A deleted heading followed by (en) does not print in the Annotated MeSH.) Those terms not followed by (en) or (ep) may not be used as search terms and must be deleted from all stored and/or saved searches. Terms followed by (en) or (ep) may remain in any stored and/or saved searches.
- 3) There are two lists of "Topical Subheadings by Category": since 1975, and 1966-74. Before 1975, subheadings were allowed for entire categories, e.g., the subheading "anatomy & histology" could be used with all Category A and Category B MeSH headings. Beginning in 1975, NLM began the practice of restricting some

subheadings to use with MeSH headings classified in specific subcategories within a category. For example, the subheading "anatomy & histology" is now restricted within Categories A and B for use with those MeSH headings in Subcategories A1-A10, A13-A16, B1-B2, and B5-B6.

4) The list of tree number changes is included as part of the *Medical Subject Headings--Tree Structures, 1987*. Although it is recommended that the MeSH heading terms themselves be used in the EXPLODE instruction whenever possible, there are circumstances that require the use of the tree number instead, e.g., when a term is in more than one tree, with different terms in each tree. When this occurs, the term will have more than one tree number. If the user wishes to search the term EXPLODED only in a specific tree, the user should EXPLODE using the desired tree number. This list of changes may be used to validate tree numbers used in previous searches, especially stored or saved searches.

Automatic SDIs on SDILINE/HEALTH (Please see also the following Technical Note for information on CANCERLIT SDIs.)

All STORESEARCHes stored for use with the SDILINE and HEALTH files in the Automatic SDI Program should be reviewed. Those searches requiring revision due to 1987 vocabulary changes must be deleted and re-stored by Friday, December 12, 1986 in order to receive correct retrieval. (The January (8701 (EM)) SDILINE and HEALTH SDIs will be processed beginning on or about December 15, 1986.) To facilitate review of stored searches, searchers will be able to execute their STORESEARCHes online between November 17, 1986 and December 12, 1986; the December 1986 SDILINE will contain 1987 MeSH terms during this time so searchers can run their STORESEARCHes against this revised SDILINE to check correct operation of stored strategies against the new vocabulary. Only SDILINE will have 1987 vocabulary terms on citations during this time period.

In order to check correct operation of stored searches during this designated period, searchers should first record the number of citations received for each stored search executed by NLM through the Automatic SDI Program against the December 1986 SDILINE (available November 1) with the 1986 vocabulary. (The number of citations retrieved is listed on the front of each SDI printout received. The name of the stored search is the title of the printout.) Beginning November 17, 1986, searchers should execute online each SDILINE stored search against the December SDILINE, which will contain the same number of citations but will then reflect 1987 MeSH vocabulary. (Stored searches may be executed in the same manner as saved searches during this period, i.e., by inputting the stored search name online qualified by (SN). Be sure you are connected to SDILINE.) If the number of citations (i.e., postings) retrieved is not equal to the number received in the December 1986 SDILINE printouts with 1986 vocabulary, searchers may assume the stored search has been affected by a 1987 vocabulary change. Searchers should then display the strategy (use the command DISPLAY with the stored search name) and check the terms against the lists in front of the 1987 MeSH. Tree numbers should be checked in the 1987 MeSH Tree Structures; CAS Registry Numbers should be checked in the online MESH VOCABULARY FILE. Remember to check the list of headings new for 1987; some of these new MeSH headings may be pertinent to the search strategies reviewed.

In summary, the 1986 Year-end Processing schedule is as follows:

November 1, 1986:

December 1986 MEDLINE/SDILINE (8612 (EM)) with 1986 MeSH vocabulary available online.

November 15-16, 1986:

SDILINE unavailable in order to implement this database with 1987 vocabulary.

November 17, 1986 through December 12, 1986:

December 1986 SDILINE with 1987 MeSH terms available online with STORESEARCHes executable online.

December 13-14, 1986:

The NLM computer will be unavailable for searching so that the 1987 MEDLINE/SDILINE/HEALTH/CANCERLIT databases and MEDLINE Backfiles may be installed. (The TOXNET computer is unaffected.)

Note: If the installation of the 1987 databases proceeds smoothly, it is possible that the computer will come back up early, that is, on either December 13 or 14, with the 1987 databases ready for searching. These dates are given as guidelines so searching schedules can be planned.

December 15, 1986:

8701 (EM) MEDLINE/SDILINE/HEALTH database updates available online with January 1987 data. The CANCERLIT database updated through 8612 (EM) should also be available online this date. These databases and the MEDLINE Backfiles should then be searched using the 1987 MeSH vocabulary.

December 15, 1986:

SDILINE and HEALTH Automatic SDIs will be processed by NLM against January 1987 (8701 (EM)) data beginning on this date. Please see following note for information about the processing of CANCERLIT SDIs.

CANCERLIT YEAR-END PROCESSING & AUTOMATIC SDIs

The National Cancer Institute (NCI) and NLM are working together to accomplish Year-end Processing for CANCERLIT by the same date as MEDLINE/MEDLINE

Backfiles/SDILINE and HEALTH. If all goes well, CANCERLIT with 1987 MeSH vocabulary should be available online on Monday, December 15, 1986.

The normal 8612 (EM) update for CANCERLIT, originally scheduled for December 8, 1986, will be delayed one week. It will be included in the 1987 version of CANCERLIT that should appear online December 15, 1986. The 8612 (EM) citations will use the 1987 MeSH vocabulary. Therefore, all CANCERLIT Automatic SDIs must be revised for the 1987 MeSH vocabulary and restored by December 12, 1986. The CANCERLIT 8612 (EM) Automatic SDIs will be run after the 8701 (EM) Automatic SDIs for SDILINE and HEALTH, probably starting the week of December 22. (Note: the CANCERLIT EM tag is always one month behind the SDILINE and HEALTH EM tag.)

New Feature (Effective December 15)

The CANCERLIT file will include one major new feature for 1987. The tag, FOR, will be added to the Language (LA) field for all non-English citations. Therefore, it will be possible to use the strategy 'AND NOT FOR (LA)' to limit a search in CANCERLIT to only English citations.

Additional Changes

The CANCERGRAM Identifier (CG) field will be updated during the Year-end Processing of CANCERLIT. Remember, this field is updated only on an annual basis.

YEAR-END PROCESSING OF TITLE ABBREVIATIONS

Over the years, discrepancies have occurred between journal title abbreviations as cited in MEDLINE and the corresponding indexing control records in SERLINE. NLM has identified these problem areas

and will be making appropriate corrections to either the SERLINE or MEDLINE records this fall as part of Year-end Processing. For the most part, it is the older MEDLINE data in MED66 and MED71 that are affected. Not all of the corrections can be made this fall; work will continue into next year. This effort is a follow-up project to last year's major correction of title abbreviations in the MEDLINE, MED83, MED80 and HEALTH files. Making the SERLINE and MEDLINE journal title abbreviations agree will help interlibrary loan procedures and further improve the quality of MEDLINE data.

**ADDITIONAL MEDLINE
BACKFILE MAINTENANCE**

MED66 and MED71 will undergo special maintenance during the regular Year-end Processing at NLM to correct features which are inconsistent with other MEDLINE Backfiles.

MeSH terms, which are currently in all upper case in these two oldest Backfiles, will be converted to upper/lower case to conform with the format of the more recent MEDLINE files. For example:

HEART DISEASES
will become
Heart Diseases

In addition, identical MeSH headings which appear on a record two or more times (i.e., an occurrence for each subheading on the term) will be "collapsed" to a single occurrence of the term with all of its subheadings. For example:

ISONIAZID/ADMINISTRATION &
DOSAGE
ISONIAZID/THERAPEUTIC USE

will become:

Isoniazid/ADMINISTRATION&DOSAGE/
THERAPEUTIC USE

These changes do not affect searching of any of the files. The changes will merely be reflected in all future printing of MEDLINE and Backfile citations.

MEDLINE AND BACKFILES 1987

Effective December 15, 1986, MEDLINE and its Backfiles with their primary dates of coverage will be as follows:

| <i>Primary File</i> | <i>Aliases</i> | <i>Coverage</i> |
|---------------------|----------------|-----------------|
| MEDLINE | MED | 1985- |
| MED83 | M83,BACK83,B83 | 1983-84 |
| MED80 | M80,BACK80,B80 | 1980-82 |
| MED77 | M77,BACK77,B77 | 1977-79 |
| MED75 | M75,BACK75,B75 | 1975-76 |
| MED71 | M71,BACK71,B71 | 1971-74 |
| MED66 | M66,BACK66,B66 | 1966-70 |

**1987 MESH VOCABULARY
AND DATABASES**

The MEDLINE, MEDLINE Backfiles, SDILINE, and HEALTH files will be available on December 15, 1986 with 1987 MeSH terms. If all goes according to schedule, CANCERLIT is also expected to be available on this date with 1987 MeSH terms. Other files using MeSH vocabulary (i.e., CATLINE, AVLINE, BIOETHICS, CANCERPROJ, and POPLINE) will be maintained for 1987 vocabulary at later dates. Please watch future issues of the *NLM Technical Bulletin* and the online NEWS for announcements. Searches stored for the Automatic SDI program for CATLINE, AVLINE, or POPLINE should not be revised for 1987 vocabulary at this time.

JANUARY 1987 SDILINE AUTOMATIC SDIS DELAYED DUE TO YEAR-END PROCESSING; FEBRUARY 1987 SDIS TO BE RUN EARLY

The 1987 MEDLINE, MEDLINE Backfiles, and SDILINE will be made available on Monday, December 15, 1986, one week later than usual due to Year-end Processing activities. The 8701 (EM) SDILINE Automatic SDIs for January 1987 will therefore be run in early December rather than late November.

The 8702 (EM) SDILINE Automatic SDIs for February 1987 will be run one week early -- over the weekend of December 20, 1986 -- and will be mailed during the following week.

Billing for Automatic SDIs on SDILINE, November/December 1986

Due to the two updates of SDILINE in the month of December 1986 (8701 (EM) and 8702 (EM)), participants in the Automatic SDI program should expect charges for two sets of SDILINE Automatic SDIs on their December invoices. No SDILINE Automatic SDIs will be run in November 1986. Participants in the Automatic SDI program should expect no charges for SDILINE Automatic SDIs on their November invoices.

AVAILABLE PRE-EXPLOSIONS

Appendix A is a list of available pre-explosions for 1987. The list is printed on one side so it can be removed from the issue and posted near the searcher's terminal. No new pre-explosions were added for 1987.

The pre-explosions are included on pages CXXXVIII-CXXXIX of the *Medical Subject Headings--Annotated Alphabetic List, 1987*. Pre-exploded terms are indicated by a black dot (●) next to the heading in the 1987

MeSH and Tree Structures. When the form of the heading varies from the corresponding MeSH term, the variant form is provided in the annotation for the heading.

DATABASE UPDATE SCHEDULE

Appendix B is the Database Update Schedule for 1987. This list includes the schedule for updating the following databases: MEDLINE/SDILINE, HEALTH, POPLINE, CANCERLIT, and TOXLINE. The list is printed on one side so it can be removed from the issue and posted near the searcher's terminal.

HOLIDAY SCHEDULE 1987

Appendix C is the NLM computer holiday schedule for 1987. The list is printed on one side so it can be removed from the issue and posted near the searcher's terminal.

NEW MEDLARS BROCHURE ENCLOSED

Enclosed with this issue is a copy of the new MEDLARS brochure. Additional copies may be obtained by calling or writing the MEDLARS Management Section or the Office of Inquiries and Publications Management at NLM.

PHONES LIST

Enclosed with this issue of the *NLM Technical Bulletin* is an updated list of telephone numbers which can be used to access the NLM computers.

New NLM Computer: Status and Plans

Melvin Beckelheimer

Office of Computer and Communications Systems, NLM

On June 8, 1986, NLM replaced the IBM 3033-M24 processor with a 3081-K32 processor. This new processor is capable of executing more than 18 million instructions per second and has 32 million characters of main memory. This represents an 80% increase in processor instruction rate and a 33% increase in main memory size over the 3033-M24.

The 3081 operates under the MVS/XA operating system that implements the IBM extended architecture capabilities. With extended architecture the main storage addressable by a program is increased from 16 million characters to 2 billion characters. Also the maximum number of input/output devices supported is increased from 1,917 to 65,536.

During the next year NLM will be increasing both processor power and direct access storage capacity. NLM plans to upgrade the 3081-K32 to a 3084-Q64, effectively doubling our current central processing power. The online direct access storage capacity will also be increased to 210 billion characters, an increase of 200% over the current 70 billion characters.

APRIL IMPLEMENTATION OF INTEREST ON OVERDUE ACCOUNTS EXPECTED

To comply with Federal regulations, the National Technical Information Service (NTIS) must charge interest on overdue accounts. NTIS expects to begin charging interest on MEDLARS accounts overdue by 30 days (45 days, actually, to allow for mailing times) in April 1987. In the interim, the National Library of Medicine is working closely with NTIS on the MEDLARS billing process in order to assure that all invoices are being sent, and user payments posted, in a timely manner. If you or your institution have outstanding balances which represent old problems or amounts due, we suggest that you contact Ms. Virginia Birchette at (703) 487-4770, National Technical Information Service, to settle the account discrepancy. If the MEDLARS Management Section staff can be of assistance or answer any question with regard to this matter, please contact us.

TYMNET/NLM Menu Service

TYMNET and the National Library of Medicine have implemented a new service called the "NLM Menu" under the TYMNET Menu Server for searchers accessing MEDLARS via TYMNET. The new NLM Menu allows users to select various MEDLARS Systems by choosing a number from a menu. It is possible to transfer between those systems without having to go through separate access sequences. The menu is available using domestic access only; NLM is investigating international access.

Accessing the NLM Menu is possible by dialing any local TYMNET access number. As the example below shows, after the "PLEASE LOG IN:" prompt from TYMNET, type "NLMMENU", to request a selection menu. The desired option may be selected by typing the appropriate number. The user will then be logged into the MEDLARS system chosen and must enter the appropriate User ID code and password. Each time the user logs off a MEDLARS system, TYMNET automatically takes the user back to the NLM Main Menu. Another option may be selected at this time.

Please refer to the example in the following figures. Option #1 connects to the MEDLARS ELHILL system of databases. Once in MEDLINE, the user can then change to any other ELHILL database by issuing a FILE command. The MEDLEARN, PDQ, and TOXNET systems

may each be accessed by selecting their appropriate numbers (2, 3, and 4, respectively). In option 2, users will need to send a break after receiving the disconnect message from MEDLEARN to get back to the NLM Main Menu. To exit from the NLM Main Menu, select option Q which releases the user back to regular TYMNET access where another non-NLM host computer can be accessed.

It is not possible to use the NLM Menu with GRATEFUL MED as only regular TYMNET access procedures are programmed into the software. The new NLM Menu is available in addition to the regular TYMNET access procedures; it does not replace existing TYMNET procedures. There is no additional charge for using the NLM Menu. Toll-free TYMNET users should contact the MEDLARS Management Section (MMS) for NLM Menu access procedures.

TYMNET is sponsoring a contest with this introduction of the NLM Menu. Although NLM, as part of the Federal government, cannot participate or provide information, if searchers are interested in the details of this contest, called the "Dinner Winner" contest, they should contact one of these two TYMNET representatives for further information: Helen Haden (800/538-9350) or Lisa Geib (703/827-9110).

TYMNET's new NLM Menu offers a convenient, easy method for accessing the NLM's MEDLARS databases. Comments from users are welcome. Please direct them to the MEDLARS Management Section.

NLM Menu: Connecting to ELHILL

please log in: nlmmenu

WELCOME TO NATIONAL LIBRARY OF MEDICINE'S COMPUTER SERVICES

NLM Main Menu

- 1 ELHILL (Bibliographic Retrieval)
- 2 MEDLEARN (Computer Assisted Instructions for MEDLINE)
- 3 PDQ (NCI Cancer Information)
- 4 TOXNET (Toxicology Data Network)
- 5 DOCLINE/TSO (IBM Timesharing Option)

THE FOLLOWING ARE FOR NLM RESEARCH AND DEVELOPMENT ONLY

- 6 CMT (ASCII/3270 Protocol Converter)
 - 7 LHCNCBC (Lister Hill - VAX)
 - 8 NPSI (X.25 Testing)
- Q Log Off

3568

Please select a service number >> 1

NLM: call connected

PLEASE ENTER USERID/PASSWORD OR LOGON

MMS SERVICE DESK HOURS EXTENDED TO 6:00 PM ET MON-FRI DURING OCT-NOV.

ACCESS FILE INFORM AND TYPE NEWS.

NLM TIME 14:30:23 DATE 86:281 LINE 683

WELCOME TO THE NATIONAL LIBRARY OF MEDICINE'S ELHILL RETRIEVAL SYSTEM. YOU ARE NOW CONNECTED TO THE MEDLINE (1984 FORWARD) FILE.

SS 1 /C?

USER:

stop y

TIME 0:00:07 NLM TIME 14:30:30 . . .

PROG:

GOOD-BYE! THE ESTIMATED TOTAL ONLINE COST FOR THIS 0 MINUTE TERMINAL SESSION IS \$ 0.03.

*** END OF SESSION ***

TYMNET: call cleared by request

[ms] circuit cleared

NLM Menu: Connecting to TOXNET

NLM Main Menu

- 1 ELHILL (Bibliographic Retrieval)
- 2 MEDLEARN (Computer Assisted Instructions for MEDLINE)
- 3 PDQ (NCI Cancer Information)
- 4 TOXNET (Toxicology Data Network)
- 5 DOCLINE/TSO (IBM Timesharing Option)

THE FOLLOWING ARE FOR NLM RESEARCH AND DEVELOPMENT ONLY

- 6 CMT (ASCII/3270 Protocol Converter)
- 7 LHNCBC (Lister Hill - VAX)
- 8 NPSI (X.25 Testing)
- Q Log Off

3568

Please select a service number >> 4

P 2 HOST IS ON LINE

[SEND A CARRIAGE RETURN OR BREAK SIGNAL AT THIS POINT]

WELCOME TO THE NATIONAL LIBRARY OF MEDICINE'S
TOXICOLOGY DATA NETWORK (TOXNET)

PLEASE ENTER USERID/PASSWORD

TOXNET NEWS BULLETIN

NOTICE: TDB no longer exists. Type NEWS for more details.
TOXNET Logon/Logoff Problems Resolved. Type NEWS.

YOU ARE NOW CONNECTED TO THE HAZARDOUS SUBSTANCES DATABANK FILE. SOME DATA IN
THIS FILE MAY NOT BE PEER REVIEWED.

There are NEWS items dated 10/07/86 that you have not yet seen. Type NEWS to
see the latest.

SS 1 /C?
USER:
stop y

TIME 0:00:10 NLM TIME 14:29:03 ...

GOOD-BYE! THE ESTIMATED TOTAL ONLINE COST FOR THIS 10 SECOND TERMINAL SESSION
IS \$ 0.18.

*** END OF SESSION ***

DROPPED BY HOST

[ms] circuit cleared

NLM Menu: Disconnect

NLM Main Menu

- 1 ELHILL (Bibliographic Retrieval)
- 2 MEDLEARN (Computer Assisted Instructions for MEDLINE)
- 3 PDQ (NCI Cancer Information)
- 4 TOXNET (Toxicology Data Network)
- 5 DOCLINE/TSO (IBM Timesharing Option)

THE FOLLOWING ARE FOR NLM RESEARCH AND DEVELOPMENT ONLY

- 6 CMT (ASCII/3270 Protocol Converter)
- 7 LHNCBC (Lister Hill - VAX)
- 8 NPSI (X.25 Testing)

Q Log Off

3568

Please select a service number >> q

GOODBYE. THANK YOU FOR USING THE NLM MENU.

RETURNING TO TYMNET

please log in:



Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated.

I would like to learn more about searching the NLM system. Are there any self-instructional guides available that I can read and use to teach myself more about searching MEDLINE directly?

Yes, there is a workbook, titled *The Basics of Searching MEDLINE: A Guide for the Health Professional*, which can be ordered from NTIS, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161. The order number is PB-232650/GBB and the cost is \$12.00 (plus \$3.00 shipping & handling fee per order). This guide accompanies the NLM-designed "Basics of Searching MEDLINE" course and illustrates the basic techniques of searching MEDLINE. Please refer to the article titled "Changes in NLM's Online Services Training Policy & Programs" in the June 1986 NLM Technical Bulletin for more complete information on the various types of training.

Since UNINET access has been discontinued, should GRATEFUL MED users continue to use UNINET?

GRATEFUL MED users will not be able to connect to the NLM computer using UNINET anymore. If you have chosen UNINET as your first access method during SETUP, you should change this and make either TYMNET or TELENET the first

access method. If you do not, GRATEFUL MED will try to call the UNINET number twice before going on to call your second access method. It will save you time to have the working access methods as your first choices. After you have input TYMNET and TELENET as the first two choices (in either order), select DIRECT and use the carriage return to go through the requests for new phone numbers. When prompted for your User ID code and password, it is not necessary to key them in again if you have previously done so. Simply carriage return through this question. Please refer to the June 1986 GRATEFUL MED column for more complete details of the SETUP process.

Does the TYMNET Menu Server work with GRATEFUL MED?

It is not possible to access NLM using the TYMNET Menu Server as only regular TYMNET access procedures are programmed into the software. (For more information on the TYMNET Menu Server, please see the article titled "NLM Menu Service" in this issue.)

Editor's note: The GRATEFUL MED logo that first appeared above last month's column is the "official" logo that is used to identify GRATEFUL MED and items about this product. It will appear at the front of every GRATEFUL MED column from now on.

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p. 3.
AVAILABLE PRE-EXPLOSIONS,
Appendix A.
DATABASE UPDATE SCHEDULE,
Appendix B.
HOLIDAY SCHEDULE 1987,
Appendix C.

*Monthly Search Hint:***Searching For
AZT (azidothymidine)**

Ruth L. Stander
Index Section, NLM

The popular press has recently featured a drug which shows promise in treating AIDS (see, for example, "Results of preliminary tests prompts AIDS drug's release," *The Washington Post*, Sept. 20, 1986, p. A1). These articles usually refer to the drug as AZT.

Articles on the antiviral drug AZT (3'-azido-3'-deoxythymidine) cannot be retrieved in MEDLINE or its Backfiles by searching with the term AZT as a text word. As of October 1986, searching AZT (TW) will retrieve 52 citations. However, 51 of these refer to the antibiotic Aztreonam, which is also abbreviated in journal articles as AZT (see Figure 1).

The desired AIDS treatment compound can be found in the supplementary chemical records of the online MESH file, although it does not appear in the printed product *Medical Subject Headings--Supplementary Chemical Records, 1986*. Figure 2 shows the

online record for AZT.

When searching for a term from the supplementary chemical records in MEDLINE or its Backfiles, the qualifier (NM) is required when searching for a Name of Substance (NM) or a Synonym (SY) from a MeSH record. A qualifier is not needed when searching on the Chemical Abstracts Service (CAS) Registry Number (RN) of 30516-87-1. Thus, entering the Name of Substance or any of the Synonyms from the MESH record, followed by (NM), will retrieve the desired citations, as will entering the CAS Registry Number by itself. This is illustrated for AZT in Figure 3.

Terms from the supplementary chemical records in MESH have been available for use online since the June 1980 SDILINE. Some references encountered before that date are noted in the MESH record. In the case of 3'-azido-3'-deoxythymidine, two citations were seen in 1978 in the journal *Experimental Cell Research*, volume 16 number 1, on pages 21 and 31, and are noted in the SO (Source) field (see Figure 2). Searchers should note that this field is not complete; it will, however, be useful in locating some citations prior to June 1980.

```

AZT as a Textword

SS 1 /C?
USER:
azt (tw)

PROG:
SS (1) PSTG (52)

SS 2 /C?
USER:
prt 5 ti

PROG:

1
TI - [Well-controlled comparative study on aztreonam and cefoperazone
in the treatment of complicated urinary tract infections]

2
TI - [Efficacy evaluation of aztreonam for suppurative otitis media]

3
TI - [Fundamental and clinical studies on aztreonam in obstetrics and
gynecology]

4
TI - [Clinical evaluation of aztreonam in the field of obstetrics and
gynecology]

5
TI - [Clinical experience with aztreonam in the field of obstetrics
and gynecology]
    
```

Figure 1

```

MESH Chemical Record for AZT (antiviral)

NM - 3'-azido-3'-deoxythymidine
RN - 30516-87-1
SY - BW A509U
SY - BWA-509U
SY - azidothymidine
SY - AZT (antiviral)
HM - THYMIDINE/*analogs
PA - ANTIVIRAL AGENTS
DA - 790101
MR - 860926
RO - M:RLS
RO - M:RLS
SO - Exp Cell Res 116(1):21;1978
SO - Exp Cell Res 116(1):31;1978
FR - 9
NO - inhibitor of HTLV-III-LAV replication
RY - C
UI - 18000
    
```

Figure 2

```

Searching for AZT (antiviral)
SS 1 /C?
USER:
3'-azido-3'-deoxythymidine (nm)

PROG:
SS (1) PSTG (8)

SS 2 /C?
USER:
bw a509u (nm)

PROG:
SS (2) PSTG (8)

SS 3 /C?
USER:
bwa-509u (nm)

PROG:
SS (3) PSTG (8)

SS 4 /C?
USER:
azidothymidine (nm)

PROG:
SS (4) PSTG (8)

SS 5 /C?
USER:
azt (antiviral) (nm)

PROG:
SS (5) PSTG (8)

SS 6 /C?
USER:
30516-87-1

PROG:
SS (6) PSTG (8)

SS 7 /C?
USER:
1 or 2 or 3 or 4 or 5 or 6
[Note that each term used results in
exactly the same retrieval]

PROG:
SS (7) PSTG (8)

SS 8 /C?
USER:
prt 5 ti

PROG:

1
TI - Antiviral drugs for AIDS. Current status and future prospects.

2
TI - In search of the best drugs against AIDS [news]

3
TI - Antiviral therapy. New drugs and their uses.

4
TI - The search for an AIDS vaccine.

5
TI - AIDS drug shows promise in preliminary clinical trial [news]
    
```

Figure 3

Serials Update

INDEXED TITLES UPDATE, OCTOBER 1986

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last

UPDATE. More detailed information about each title may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

IDL ANKARA UNIVERSITESI DIS HEKIMLIGI FAKULTESI
 DERGISI
 ANKARA UNIV HEKIM FAK DERG
 IN1,1974?--
 ANKARA UNIVERSITESI
 ANKARA TURKEY
 INDEXING BEGAN WITH V12N2,MAY-AUG 1985.
 ON ORDER
 SR0057914 JTC: ANK

IDL INTERNATIONAL JOURNAL OF ORAL AND
 MAXILLOFACIAL IMPLANTS
 INT J ORAL MAXILLOFAC IMPLANTS
 IN1,SUMMER 1986--
 QUINTESENCE
 LOMBARD IL UNITED STATES
 INDEXING BEGAN WITH VIN1,1986.
 IN PROCESS 0882-2786
 SR0054652 JTC: GJR

IDL ARCHIVOS DE ODONTOESTOMATOLOGIA
 ARCH ODONTOESTOMATOL
 IN1,DEC 1985--
 EDICIONES ERGON
 BARCELONA SPAIN
 INDEXING BEGAN WITH VIN1,DEC 1985.
 ON ORDER
 SR0057842 JTC: 7ZD
 EDICIONES ERGON,PLAZA EQUILAZ 13,08017
 BARCELONA,SPAIN

INI JOURNAL OF HOLISTIC NURSING
 J HOLIST NURS
 IN1,MAR 1983--
 AMERICAN HOLISTIC NURSES ASSOCIATION
 SPRINGFIELD MO UNITED STATES
 OFFICIAL JOURNAL OF THE AMERICAN HOLISTIC
 NURSES' ASSOCIATION.
 INDEXING BEGAN WITH V4N1,SPRING 1986.
 W1 J0671H
 SR0052687 JTC: IB4
 CYNTHIA WHEELER,EXECUTIVE
 DIRECTOR,AMERICAN HOLISTIC NURSES
 ASSOCIATION,205 ST. LOUIS ST.SUITE
 506,SPRINGFIELD,MO 65806

IDL DYSPHAGIA
 DYSPHAGIA
 IN1,1986--
 SPRINGER
 NEW YORK UNITED STATES
 INDEXING BEGAN WITH VIN2,1986.
 W1 DY997 0179-051X
 SR0054813 JTC: DYY

IDL JOURNAL OF THE TOHOKU DENTAL UNIVERSITY
 J TOHOKU DENT UNIV
 1974--
 DEO GEKKAI
 KORIYAMA-SHI JAPAN
 INDEXING BEGAN WITH V13N1,1986.
 ON ORDER 0385-0161
 SR0053044 JTC: FYH

HLI HEALTH CARE LAW NEWSLETTER
 HEALTH CARE LAW NEWSL
 IN1,JUL 1986--
 MATTHEW BENDER
 NEW YORK UNITED STATES
 INDEXING BEGAN WITH VIN1,JUL 1986.
 ON ORDER
 SR0057975 JTC: GAU
 MATTHEW BENDER,235 EAST 45TH STREET,NEW
 YORK NY 10017

IDL SHOWA IGAKKAI ZASSHI. JOURNAL OF THE SHOWA
 MEDICAL ASSOCIATION
 SHOWA IGAKKAI ZASSHI
 1,1939--
 SHOWA UNIVERSITY AND SHOWA MEDICAL
 ASSOCIATION
 TOKYO JAPAN
 INDEXING BEGAN WITH V45N5,OCT 1985.
 W1 SH56 0037-4342
 S24720000 JTC: SHW

HLI HOSPITAL FOOD AND NUTRITION FOCUS
 HOSP FOOD NUTR FOCUS
 1,SEP 1984--
 ASPEN PUBLISHERS
 GAITHERSBURG MD UNITED STATES
 INDEXING BEGAN WITH V3N1,SEP 1986.
 ON ORDER 0747-7367
 SR0051938 JTC: GDF
 ASPEN PUBLISHERS, INC.,16792 OAKMONT
 AVE.,GAITHERSBAURG MD 20877.

IDL SUOMEN HAMMASLAAKARILEHTI
 SUOM HAMMASLAAKARILEHTI
 1,1954?--
 KAIJA LIRKKI
 HELSINKI FINLAND
 NLM COLLECTS 33,1986-- ONLY.
 INDEXING BEGAN WITH V33N1,JAN 1986.
 ON ORDER 0355-4090
 SR0057897 JTC: SUO

TITLE CHANGES, SEPTEMBER 1986

- | | |
|---|---|
| <p>IM CANADIAN JOURNAL OF ANAESTHESIA CAN J ANAESTH 34N1, JAN 1987-- CANADIAN ANAESTHETISTS SOCIETY TORONTO CANADA CONTINUES: CANADIAN ANAESTHETISTS SOCIETY JOURNAL. ON ORDER 0832-610X SR0057985 JTC: C8L</p> | <p>IM JAPANESE JOURNAL OF PSYCHIATRY AND NEUROLOGY JPN J PSYCHIATRY NEUROL 40N1, MAR 1986-- FOLIA PUBLISHING SOCIETY TOKYO JAPAN CONTINUES: FOLIA PSYCHIATRICA ET NEUROLOGIA JAPONICA. W1 JA971J 0912-2036 SR0057786 JTC: K08</p> |
| <p>IM GENOME GENOME 29N1, 1987-- NATIONAL RESEARCH COUNCIL OF CANADA OTTAWA CANADA CONTINUES: CANADIAN JOURNAL OF GENETICS AND CYTOLOGY. ON ORDER 0831-2796 SR0058053 JTC: FNP</p> | <p>HLI MCGRAW HILLS MEDICINE AND HEALTH MCGRAW HILLS MED HEALTH 40N30, JUL 28 1986-- MCGRAW HILL WASHINGTON UNITED STATES CONTINUES: MCGRAW-HILLS WASHINGTON REPORT ON MEDICINE AND HEALTH. IN PROCESS SR0057565 JTC: M9J</p> |
| <p>HLI HEALTH CARE MARKETER AND TARGET MARKET HEALTH CARE MARK TARGET MARKET 1N1, MAR 17 1986-- KEY COMMUNICATIONS GROUP BETHESDA MD UNITED STATES CONTINUES: COST CONTAINMENT; WHICH IS NOT IN THE NLM COLLECTION. IN PROCESS 0884-6596 SR0055933 JTC: GAI</p> | <p>INI NURSING RSA VERPLEGING NURS RSA VERPLEGING 1N1, JAN 1986-- JUTA KENWYN SOUTH AFRICA BILINGUAL PUBLICATION REPLACING CURATIONS. CONTINUES: CURATIONIS. ON ORDER 0258-1547 SR0055772 JTC: NRV</p> |

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES,
SEPTEMBER 1986

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH, and POPLINE are listed in the "INDEXED TITLES UPDATE" section. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill

loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ACTA PEDIATRICA MEDITERRANEA
1N1, 1985--
A. CARBONE
PALERMO ITALY
AN INTERNATIONAL REVIEW OF
MEDICOL-CHIRURGICOL PAEDIATRIC SCIENCES.
IN PROCESS
SR0057875
A. CARBONE, VIA G. DAITA, 29-90139
PALERMO, ITALY

ADVANCES IN APPLIED DEVELOPMENTAL PSYCHOLOGY
1, 1985--
ABLEX PUBLISHING
NORWOOD NJ UNITED STATES
ON ORDER
SR0058014
ABLEX PUBLISHING CORP., 355 CHESTNUT
ST., NORWOOD NJ 07648

ALIMENTARY PHARMACOLOGY AND THERAPEUTICS
 1,1987--
 BLACKWELL SCIENTIFIC
 OXFORD ENGLAND
 ON ORDER
 SR0057930 \$115.00

BIOCHEMISTRY SERIES IV
 1ST ED,1985--
 MAHESH JAIN FOR SHREE PUBLISHING HOUSE
 DELHI INDIA
 IN PROCESS
 SR0057817
 DISTRIBUTORS: JAIN BOOK DEPOT,4056
 AJMERI GATE,DELHI,110006,INDIA

BIOETHICS
 1,1987--
 BASIL BLACKWELL AND MOTT
 OXFORD ENGLAND
 ON ORDER
 SR0057814 \$80.00
 BASIL BLACKWELL AND MOTT,108 COWLEY
 ROAD,OXFORD OX4 1J,ENGLAND

BIOSCAN
 1,1986--
 ORYX
 PHOENIX AZ UNITED STATES
 ON ORDER
 SR0057936 \$425.00
 PRYX PRESS,2214 N CENTRAL,PHOENIX AZ
 85004-1483

BONE MARROW TRANSPLANTATION. SUPPLEMENT
 1N1,1986--
 MACMILLAN
 LEICESTERSHIRE ENGLAND
 IN PROCESS
 SR0058026
 BONE MARROW TRANSPLANTATION,FARDON
 ROAD,MARKET HARBOROUGH LEICESTERSHIRE
 LE16 9NR,ENGLAND

BRAIN BEHAVIOR AND IMMUNITY
 1,1987--
 ACADEMIC
 DULUTH MN UNITED STATES
 ON ORDER
 SR0057933 \$100.00

CHIROPRACTIC SPORTS MEDICINE
 1,1987--
 WILLIAMS AND WILKINS
 BALTIMORE UNITED STATES
 ON ORDER
 SR0057918 \$65.00

CLINICAL TRANSPLANTATION
 1,1987--
 MUNKSGAARD
 COPENHAGEN DENMARK
 ON ORDER
 SR0057932 \$112.50

COMPREHENSIVE GERONTOLOGY SERIES A-C
 1,1987--
 MUNKSGAARD
 COPENHAGEN DENMARK
 ON ORDER
 SR0057922 \$114.50

CONSERVATION BIOLOGY
 1,1987--
 BLACKWELL SCIENTIFIC
 BOSTON UNITED STATES
 ON ORDER
 SR0057919 \$65.00

FITNESS IN BUSINESS
 1N1,JUL 1986--
 WILLIAMS AND WILKINS
 BALTIMORE UNITED STATES
 ON ORDER
 SR0058029 \$39.00

INNOVATIONS
 1,JUL 1986?--
 CENTER FOR HEALTHCARE COMMUNICATIONS
 NEW YORK UNITED STATES
 IN PROCESS
 SR0057830
 CENTER FOR HEALTHCARE COMMUNICATIONS,420
 LEXINGTON AVENUE,NEW YORK NY 10017

JOURNAL OF ADOLESCENT RESEARCH
 1N1,SPRING 1986--
 H.E.L.P. BOOKS
 TUCSON AZ UNITED STATES
 ON ORDER
 SR0058015

JOURNAL OF CLINICAL NUTRITION AND
GASTROENTEROLOGY
IN1,1986--
ERGON
BARCELONA SPAIN
IN PROCESS
SR0057989 \$38.00
EDICIONES ERGON,PLAZA EGUILAZ 13
BARCELONA 08017,SPAIN

JOURNAL OF CLINICAL RESEARCH AND DRUG
DEVELOPMENT
1,1987--
ELSEVIER
NEW YORK UNITED STATES
ON ORDER
SR0057917 \$96.00

JOURNAL OF CONTAMINANT HYDROLOGY
1,1986--
ELSEVIER
AMSTERDAM NETHERLANDS
ON ORDER
SR0057801 \$128.00

JOURNAL OF FOOD COMPOSITION AND ANALYSIS
1,1987--
ACADEMIC
DULUTH MN UNITED STATES
ON ORDER
SR0057934 \$70.00

MEDICAL AND VETERINARY ENTOMOLOGY
1,1987--
BLACKWELL SCIENTIFIC
OXFORD ENGLAND
ON ORDER
SR0057929 \$113.00

MOLECULAR ENDOCRINOLOGY
1,1987--
WILLIAMS AND WILKINS
BALTIMORE UNITED STATES
ON ORDER
SR0058030 \$145.00

MOLECULAR GENETICS, MICROBIOLOGY, AND
VIROLOGY
1987--
ALLERTON PRESS
NEW YORK UNITED STATES
ON ORDER
SR0057858 \$425.00
ALLERTON PRESS,150 FIFTH AVENUE,NEW YORK
NY 10011

NURSESEARCH
JUN 1987--
NURSING AND ALLIED HEALTH
GLENDALE CA UNITED STATES
ON ORDER
SR0057812 \$150.00
NURSING AND ALLIED HEALTH,1509 WILSON
TERRACE,P.O. BOX 871,GLENDALE CA
91209-0871

ORAL MICROBIOLOGY AND IMMUNOLOGY
IN1,1986--
MUNKSGAARD
COPENHAGEN DENMARK
ON ORDER
SR0057847
MUNKSGAARD,35 NORRE SOGADE,DK-1370
COPENHAGEN K,DENMARK

PERSPECTIVES ON PREVENTION
IN1,FALL 1986--
ASSOCIATION OF TEACHERS OF PREVENTIVE
MEDICINE
WASHINGTON UNITED STATES
FIRST ISSUE CALLED PREMIER ISSUE.
IN PROCESS
SR0057982
ASSOCIATION OF TEACHERS OF,PREVENTIVE
MEDICINE,1030 15TH ST N.W.,SUITE
1020,WASHINGTON DC 20005

PREVENTIVE PEDIATRICS
1,1987--
FREUND
TEL AVIV ISRAEL
ON ORDER
SR0057815 \$100.00
FREUND PUBLISHING HOUSE LTD.,P.O. BOX
35101,61 NACHMANI STREET,TEL AVIV ISRAEL
61350

SALIX
IN1,1985--
NW-VERLAG
WURZBURG GERMANY, WEST
ZEITSCHRIFT FUR ETHNOMEDIZIN.
ON ORDER
SR0058021

SURVEY AND DIGEST OF PSYCHOPHARMACOLOGY,
NEUROPHARMACOLOGY, AND NEUROCHEMISTRY
1,1987?--
FREUND PUBLISHING
TEL AVIV ISRAEL
ON ORDER
SR0057855 \$100.00
FREUND PUBLISHING,P.O.BOX 35010,61
NACHMANI ST,TEL AVIV,ISRAEL

SURVEY AND DIGEST OF RADIOLOGY
1,1987--
FREUND PUBLISHING
TEL AVIV ISRAEL
ON ORDER
SR0057856 \$100.00
FREUND PUBLISHING,BOX 35010,61 NACHMANI
ST,TEL AVIV,ISRAEL

WORLD TRANSLATIONS INDEX
1,1987--
INTERNATIONAL TRANSLATIONS CENTRE
DELFT NETHERLANDS
FORMED BY MERGER OF: TRANSLATIONS REGISTER
INDEX AND: WORLD TRANSINDEX.
ON ORDER
SR0057861

THEORIE UND FORSCHUNG. PSYCHOLOGISCHE
MEDIZIN
1,1986--
S. RODERER VERLAG
REGENSBURG GERMANY, WEST
IN PROCESS
SR0058018

TRANSFUSION MEDICINE REVIEWS
1,1987--
GRUNE AND STRATTON
DULUTH MN UNITED STATES
ON ORDER
SR0057816 \$51.00
GRUNE AND STRATTON. P.O. 6209,DULUTH MN

APPENDIX A

PRE-EXPLOSIONS 1987

| <u>Pre-Explosion Name (PX)</u> | <u>Tree Number where-Subsumed Terms may be Found</u> |
|---|--|
| ABNORMALITIES | C16.131 |
| ANTIBIOTICS | D20.85 |
| ANTIBODIES | D24.611.125 |
| BACTERIA | B3 |
| BACTERIAL INFECTIONS | C1.252 |
| BEHAVIOR | F1.145 |
| BEHAVIOR A#D BEHAVIOR MECHANISMS | F1 |
| BEHAVIORIAL A#D MENTAL DISORDERS | F3 |
| BIOCHEM PHENOM METAB | G6 |
| BLOOD PROTEINS | D12.776.124 |
| BRAIN | A8.186.211 |
| CARBOHYDRATES | D9.203 |
| CARDIOVASCULAR AGENTS | D18 |
| CARDIOVASCULAR DISEASES | C14 |
| CARDIOVASCULAR SYSTEM | A7 |
| CELLS | A11 |
| CENTRAL NERVOUS SYSTEM | A8.186 |
| CENTRAL NERVOUS SYSTEM DISEASES | C10.228 |
| CHEMISTRY, ANALYTICAL | E5.196 |
| CIRCULATORY, RESPIRATORY PHYSIOLOGY | G9 |
| DENTISTRY | E6 |
| DIAGNOSIS, LABORATORY | E1.223 |
| DIGESTIVE SYSTEM DISEASES | C6 |
| ENZYMES | D8.586 |
| EQUIPMENT A#D SUPPLIES | E7 |
| GASTROINTESTINAL DISEASES | C6.405 |
| GENETICS | G5 |
| HEALTH FACILITIES | N2.278 |
| HEALTH SERVICES | N2.421 |
| HEART DISEASES | C14.280 |
| HORMONES | D6.472 |
| IMMUNITY | G4.610 |
| IMMUNOLOGIC FACTORS | D24.611 |
| LIPIDS | D10.516 |
| MAMMALS | B2.649 |
| MENTAL DISORDERS | F3.709 |
| METABOLIC DISEASES | C18.452 |
| METALS | D1.552 |
| MISCELLANEOUS TECHNICS | E5 |
| MOUTH A#D TOOTH DISEASES | C7 |
| MUSCULOSKELETAL DISEASES | C5 |
| NEOPLASMS | C4 |
| NERVOUS SYSTEM | A8 |
| NERVOUS SYSTEM DISEASES | C10 |
| NEUROLOGIC MANIFESTATIONS | C10.597 |
| ORGANIZATION A#D ADMINISTRATION | N4.452 |
| PHYSIOLOGY, GENERAL | G7 |
| PROTEINS | D12.776 |
| PSYCHOLOGIC PROCESSES PRINCIPLES | F2 |
| REPRODUCTION, UROGENITAL PHYSIOLOGY | G8 |
| RESPIRATORY TRACT DISEASES | C8 |
| RODENTIA | B2.649.865 |
| SIGNS A#D SYMPTOMS | C23.888 |
| SKIN DISEASES | C17 |
| STEROIDS | D4.808 |
| SURGERY, OPERATIVE | E4 |
| UNITED STATES MC (as a MeSH heading) | Z1.107.567.875 |
| UNITED STATES (as a place of publication) | Z1.107.567.875 |
| VASCULAR DISEASES | C14.907 |
| VERTEBRATE VIRUSES | B4.909 |
| VERTEBRATES | B2 |
| VIRUS DISEASES | C2 |
| VIRUSES | B4 |
| WOUNDS A#D INJURIES | C21.866 |

Pre-Explosions are searchable only by the Pre-Explosion Name (PX) or
*Pre-Explosion Name (PX) and not by the tree number.

APPENDIX B

DATABASE UPDATE SCHEDULE FOR 1987

| <u>ENTRY MONTH</u> | <u>UPDATED MEDLINE/ SDILINE AVAILABLE</u> | <u>UPDATED HEALTH AVAILABLE</u> | <u>UPDATED POPLINE AVAILABLE</u> | <u>UPDATED CANCERLIT AVAILABLE</u> | <u>UPDATED TOXLINE AVAILABLE</u> |
|------------------------|---|---|--|--|--|
| 8701 (EM) | DEC 15 | DEC 15 | JAN 10 | JAN 3 | JAN 17 |
| 8702 (EM) | JAN 3 | JAN 10 | FEB 7 | JAN 31 | FEB 14 |
| 8703 (EM) | JAN 31 | FEB 7 | MAR 7 | FEB 28 | MAR 14 |
| 8704 (EM) | FEB 28 | MAR 7 | APR 11 | APR 4 | APR 18 |
| 8705 (EM) | APR 4 | APR 11 | MAY 9 | MAY 2 | MAY 16 |
| 8706 (EM) | MAY 2 | MAY 9 | JUN 6 | MAY 30 | JUN 13 |
| 8707 (EM) | MAY 30 | JUN 6 | JUL 11 | JUL 5* | JUL 18 |
| 8708 (EM) | JUL 5* | JUL 11 | AUG 8 | AUG 1 | AUG 15 |
| 8709 (EM) | AUG 1 | AUG 8 | SEP 12 | SEP 5 | SEP 19 |
| 8710 (EM) | SEP 5 | SEP 12 | OCT 10 | OCT 3 | OCT 17 |
| 8711 (EM) | OCT 3 | OCT 10 | NOV 7 | OCT 31 | NOV 14 |
| 8712 (EM) | OCT 31 | NOV 7 | DEC 14 | DEC 14 | DEC 21 |

December updates for POPLINE, CANCERLIT, and TOXLINE are subject to change.

*Adjusted for holiday.

APPENDIX C

1987
HOLIDAY SCHEDULE

Listed below is the holiday schedule for calendar year 1987. As was the case last year, the NLM computer is scheduled to be UP on every holiday listed below. However, on some holidays, computer hours are non-guaranteed. A computer status of non-guaranteed means that if the computer goes down, it is unlikely to be restarted until after midnight of the holiday. Specific details on guaranteed versus non-guaranteed hours of operation for each holiday will be published prior to that holiday in the Technical Bulletin. Non-prime rates will be in effect on non-guaranteed holidays and on guaranteed holidays when the MEDLARS Management Service Desk is not staffed.

| <u>HOLIDAY</u> | <u>DATE</u> | <u>SYSTEM STATUS</u> |
|--|-------------|----------------------|
| Christmas Day (1986) | Thu, Dec 25 | Non-guaranteed* |
| New Year's Day | Thu, Jan 1 | Non-guaranteed* |
| Martin Luther King's Birthday | Thu, Jan 15 | Guaranteed |
| Martin Luther King's Birthday (Observed) | Mon, Jan 19 | Guaranteed* |
| Washington's Birthday (Observed) | Mon, Feb 16 | Guaranteed* |
| Washington's Birthday | Sun, Feb 22 | Non-guaranteed* |
| Memorial Day (Observed) | Mon, May 25 | Non-guaranteed* |
| Memorial Day | Sat, May 30 | Non-guaranteed* |
| Independence Day (Observed) | Fri, Jul 3 | Non-guaranteed* |
| Independence Day | Sat, Jul 4 | Non-guaranteed* |
| Labor Day | Mon, Sep 7 | Non-guaranteed* |
| Columbus Day | Mon, Oct 12 | Guaranteed* |
| Veterans Day | Wed, Nov 11 | Guaranteed* |
| Thanksgiving Day | Thu, Nov 26 | Non-guaranteed* |
| Christmas Day (1987) | Fri, Dec 25 | Non-guaranteed* |

*Non-prime rates are in effect all day.

The TOXNET computer is up 24 hours-a-day, 7 days-a-week, and the system status is always guaranteed. Non-prime rates will be in effect on all holidays.

Notice of changes to this schedule and/or temporary changes in hours of operation will also appear in the online NEWS.

THE NLM

GRATEFUL MED Users
See page 16

ISSN 0146-3055
NOVEMBER 1986
No. 211

Technical Bulletin

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New Money-Saving Feature Available: PRINT BROWSE

A new ELHILL print capability called PRINT BROWSE will be implemented on Monday, December 15, 1986. PRINT BROWSE allows the searcher to print a designated data element without incurring the online citation charge portion of the pricing algorithm (all other components, including character charges, remain in effect). Using PRINT BROWSE, the searcher will be able to determine the relevance of the retrieved records at a lower cost than can currently be done.

The PRINT BROWSE data elements and their category qualifiers for the various databases are as follows:

For:
CHEMLINE and RTECS
The qualifier is:
N1 (CAS TYPE 1 NAME)

For:
DIRLINE and NAME AUTHORITY
FILE

The qualifier is:
NA (NAME)

Continued on page 5.



NLM TECHNICAL BULLETIN NOV 86

| DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|-----------------|---------------|-------------------------------|-------------------|-------------------|
| (ELHILL SYSTEM) | | | | |
| AVLINE | 15,555 | THROUGH 1986 | 26 NOV 86 | |
| BIOETHICS | 21,252 | JAN 73-1986 | 11 OCT 86 | 8610(EM) |
| CANCERLIT | 552,869 | JAN 63-NOV 86 | 01 NOV 86 | 8611(EM) |
| CANCERPROJ | 10,183 | THROUGH 1986 | 05 JUL 86 | 8607(EM) |
| CATLINE | 610,260 | THROUGH 1986 | 26 NOV 86 | |
| CHEMLINE | 702,056 | | 11 OCT 86 | 8610(EM) |
| CLINPROT | 5,748 | | 26 NOV 86 | 8611(EM) |
| DIRLINE | 15,557 | | 21 OCT 86 | |
| HEALTH | 361,678 | JAN 75-DEC 86 | 08 NOV 86 | 8612(EM) |
| HISTLINE | 74,748 | | 08 NOV 86 | 8611(EM) |
| MEDLINE | 771,682 | JAN 84-DEC 86 | 01 NOV 86 | 8612(EM) |
| MED83 | 286,600 | JAN 83-DEC 83 | 11 OCT 86 | |
| MED80 | 804,746 | JAN 80-DEC 82 | 13 SEP 86 | |
| MED77 | 775,043 | JAN 77-DEC 79 | 04 OCT 86 | |
| MED75 | 642,612 | JAN 75-DEC 76 | 19 MAY 86 | |
| MED71 | 882,903 | JAN 71-DEC 74 | 16 AUG 86 | |
| MED66 | 954,368 | JAN 66-DEC 70 | 12 AUG 86 | |
| MESH VOC | 58,608 | 1986 | 27 OCT 86 | |
| NAME AUTH | 279,919 | | 24 NOV 86 | |
| POPLINE | 152,286 | 1970-NOV 86 | 08 NOV 86 | 8611(EM) |
| RTECS | 84,556 | THROUGH OCT 86 | 26 NOV 86 | |
| SDILINE | 26,655 | DEC 86 | 01 NOV 86 | 8612(EM) |
| SERLINE | 67,926 | 1986 | 01 NOV 86 | |
| TOXLINE | 880,908 | | 15 NOV 86 | 8611(EM) |
| CBAC | 480,221 | 1981-VOL 105(8,9) | | |
| TOXBIB | 191,717 | 1981-DEC 1986 | | |
| IPA (ASHP) | 40,478 | 1981-VOL 23(21) | | |
| BIOSIS | 49,194 | OCT 1986 | | |
| HEEP | 49,788 | 1981-VOL 14(8) | | |
| PESTAB | 1,536 | 1981 | | |
| EMIC | 12,899 | 1981-MAR 1986 | | |
| ETIC | 15,184 | 1981-NOV 1986 | | |
| TD3 | 25,965 | 1981-GRA&I 86 (18,19) | | |
| HMTC | 1,869 | 1981-APR 1986 | | |
| ILO | 5,076 | NOV 1986 | | |
| RPROJ/CRISP | 16,086 | FISCAL YEARS 1983, 1984, 1985 | | |
| ANEUPLOIDY | 3,593 | 1969-JUN 1986 | | |
| TOXBACK76 | 555,808 | | 27 AUG 84 | |
| CBAC | 298,383 | 1976-1980 | | |
| TOXBIB | 106,643 | 1976-1980 | | |
| IPA(ASHP) | 33,321 | 1976-1980 | | |
| HEEP | 63,796 | 1976-1980 | | |
| PESTAB | 14,757 | 1976-1980 | | |
| EMIC | 17,267 | 1976-1980 | | |
| ETIC | 11,970 | 1976-1980 | | |
| TD3 | 9,671 | 1976-1980 | | |
| TOXBACK65 | 598,424 | | 27 AUG 84 | |
| CBAC | 287,992 | 1965-1975 | | |
| TOXBIB | 155,387 | 1965-1975 | | |
| IPA(ASHP) | 33,876 | 1969-1975 | | |
| HEEP | 54,075 | 1970-1975 | | |
| HAPAB/PESTAB | 18,416 | 1968-1975 | | |
| EMIC | 19,554 | 1950-1975 | | |
| ETIC | 13,694 | 1950-1975 | | |
| TD3 | 839 | PRE-1965-1975 | | |
| HAYES | 10,039 | 1940-1968 | | |
| TMIC | 4,552 | 1940-1975 | | |
| (TOXNET SYSTEM) | | | | |
| CCRIS | 1,136 | | 24 SEP 86 | |
| HSDB | 4,142 | | 16 OCT 86 | |

Head, MMS: Carolyn B. Tilley
 Editor: T. Scott Plutchak
 Technical Notes Editor: Patricia E. Healy
 Assistant Editor: Kathleen Stenger
 (301) 496-6193

Direct Inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 Bldg., 38A, Rm. 4N421
 Bethesda, Maryland 20894

Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 that is considered most relevant to the item being discussed, e.g., (Manual 2.9). Users should keep in mind that the item may pertain to other section of the Manual as well.

NLM COMPUTER UNAVAILABLE SATURDAY & SUNDAY DECEMBER 13-14, 1986

Reminder: The NLM computer is scheduled to be unavailable on Saturday, December 13, 1986 and Sunday, December 14, 1986 in order to install the 1987 MEDLINE, MEDLINE Backfiles, SDILINE, HEALTH, and CANCERLIT databases. (The TOXNET computer is unaffected.) If the installation of the 1987 databases proceeds smoothly, it is possible that the computer will come back up early, that is on either December 13 or 14, with the 1987 databases ready for searching. These dates are given as guidelines so searching schedules can be planned. Please see the Technical Note in the October 1986 *NLM Technical Bulletin*, p. 4, titled "YEAR-END PROCESSING," for additional information.

CHRISTMAS AND NEW YEAR'S HOLIDAYS

The NLM computer is scheduled to be UP on Christmas (Thursday, December 25) and New Year's Day (Thursday, January 1, 1987). The computer status on these holidays will be non-guaranteed. This means that if the computer goes down it is unlikely to be restarted until after midnight of the holiday. Users are also advised that non-guaranteed hours of operation may begin early on Christmas Eve and New Year's Eve. Specific details on guaranteed versus non-guaranteed hours of operation for the NLM computer for each holiday will appear as online NEWS items the week before the holiday. Non-prime rates will be in effect all day on these

holidays and the MEDLARS Management Service Desk will not be staffed. The TOXNET computer will be up on both holidays on a guaranteed basis.

MEDLINE DATES OF COVERAGE TO CHANGE

Reminder: Effective December 15, 1986, the date the MEDLINE database and its Backfiles are made available using the 1987 MeSH vocabulary, the dates of coverage for MEDLINE and MED83 will change. MEDLINE will cover primarily 1985-present; MED83 will cover primarily 1983 & 1984. Please see the October 1986 *NLM Technical Bulletin*, p. 7, for complete dates of coverage for all the Backfiles.

BILLING FOR AUTOMATIC SDIs ON SDILINE, NOVEMBER/DECEMBER 1986.

Reminder: Due to the two updates of SDILINE in the month of December 1986 (8701 (EM) and 8702 (EM)), participants in the Automatic SDI program should expect charges for two sets of SDILINE Automatic SDIs on their December invoices. No SDILINE Automatic SDIs will be run in November 1986. Participants in the Automatic SDI program should expect no charges for SDILINE Automatic SDIs on their November invoices. Please see the Technical Note in the October 1986 *NLM Technical Bulletin*, p. 8, titled "JANUARY 1987 SDILINE AUTOMATIC SDIs DELAYED DUE TO YEAR-END PROCESSING," for additional information.

TWO NEW COMMAND ALIASES

Effective October 21, 1986, two new command aliases became available for use by searchers. These aliases are: PRT COMP (for PRT COMPRESSED) and SUBS DISP (for SUBS DISPLAY).

BACKFILE POSTINGS IN THE MESH VOCABULARY FILE

After December 15, 1986, the date when the 1987 MEDLINE databases become available, the Backfile Postings fields of the MESH VOCABULARY FILE will be changed to reflect the latest regeneration of the MEDLINE Backfiles. The six data elements will be:

- M83 (for MED83 Backfile)
- M80 (for MED80 Backfile)
- M77 (for MED77 Backfile)
- M75 (for MED75 Backfile)
- M71 (for MED71 Backfile)
- M66 (for MED66 Backfile)

The numeric values in each of these fields will reflect the postings for the term in each of the Backfiles. Each Backfile Postings field has two entries: the total postings for the term in a particular Backfile, and the *Index Medicus* (IM) or "main point" postings (indicated by an asterisk (*)).

For example, a descriptor term in the MESH VOCABULARY FILE may have entries similar to the following:

- M83 - 105
- M83 - *77
- M80 - 122
- M80 - *100
- M77 - 179
- M77 - *120
- M75 - 166
- M75 - *131
- M71 - 195
- M71 - *155
- M66 - 183
- M66 - *101

SOME OHIC RECORDS MISSING FROM DIRLINE UPDATE

On October 21, 1986, the DIRLINE database was updated. (Please see the article on page 6 of this issue for complete details on this update.) During this update, 36 OHIC (ODPHP Health Information Center) records were inadvertently dropped by the contractor. Those 36 records will be reinput to the DIRLINE database during the next update, tentatively scheduled for mid-January 1987. Appendix A is the list of these 36 organizations with the "HR" number from the SI field. Users who need a copy of the content of these DIRLINE records can obtain a printout of the record by writing Specialized Information Services (SIS) at NLM. Printouts of these 36 records were prepared before DIRLINE was updated.

TUMOR KEY, 1987

The 1987 edition of the Tumor Key is now available for order from the National Technical Information Service (NTIS). The full title and ordering information for this publication are:

Technical Notes: MEDLARS Indexing Instructions, Tumor Key Supplement, 1987
 Order Number = PB87-105409/GBB
 Hardcopy Price = \$8.50 (U.S. & Canada);
 17.00 (foreign)
 Microfiche Price = \$5.95 (U.S. & Canada);
 \$11.90 (foreign)

Order from:

National Technical Information Service
 5285 Port Royal Road
 Springfield, Virginia 22161
 703/487-4650 (For credit card or NTIS
 deposit account orders)

Please access **FILE INFORM** and type **NEWS** to see the most recent news items online!

PRINT BROWSE
Continued from page 1.

For:
AVLINE, BIOETHICS, CANCERLIT,
CANCERPROJ, CATLINE, CLINPROT,
HEALTH, HISTLINE, MEDLINE,
MEDLINE Backfiles, POPLINE,
SDILINE, SERLINE, TOXLINE, and
TOXLINE Backfiles

The qualifier is:
TITLE (TI).

PRINT BROWSE has not been implemented
in the MESH VOCABULARY FILE.

To use PRINT BROWSE, enter PRINT
BROWSE, PRINT BR, or PRINT XX (XX
being the PRINT BROWSE data element for
the database being searched). Using any
other categories or print formats will result
in the usual charges.

The per citation savings using PRINT
BROWSE will be:

| | |
|------------|--------|
| TOXLINE* | \$.09 |
| CHEMLINE* | \$.10 |
| All Others | \$.01 |

* The 1986 TOXLINE and CHEMLINE online citation charges
already include a discount for estimated browsing for royalty
purposes. The 1987 rates will not have this discount, but
instead will take advantage of PRINT BROWSE to give this
discount at the time of online printing.

PRINT BROWSE will be reflected in the
SHOW COST DL display as shown in Figure
1.

Please note that even though PRINT
BROWSE will not be implemented online
until December 15, NLM will be crediting all
bills for the entire month of December,
whenever the PRINT XX command is given.
(The forms PRINT BROWSE and PRINT BR
cannot be used until December 15.)

Show Cost Display Including PRINT BROWSE Information

```

USER:
show cost dl
PROG:
THE ESTIMATED TOTAL ONLINE COST FOR THIS 0 MINUTE MEDLINE SESSION IS $
0.11.
  YOU HAVE ENTERED 2 INTERACTIONS AND 0 SEARCH STATEMENTS.
  5 CITATIONS WERE PRINTED AND 450 CHARACTERS WERE SENT TO YOUR
  TERMINAL.
  5 OF THE DISPLAYED CITATIONS WERE BROWSED.
  THE COMPUTER HAS USED 14 WORK UNITS IN PERFORMING YOUR INTERACTIONS.
    
```

Figure 1

Recent Changes To DIRLINE

Addition of the DRACON component subfile;
System software and other changes.

Kenneth Alan Collins, Ph.D.
Specialized Information Services, NLM

DIRLINE was updated on October 21, 1986. The changes made to the database fall into two major categories, contents and system software.

I. Contents

The most significant content change was the addition of a fourth component subfile, DRACON (Drug Abuse Communications Network) to DIRLINE. This is the second in a projected series of small "specialty" subfiles, as contrasted with the two subfiles that constitute the major portion of the database, namely, the National Referral Center (NRC) database from the Library of Congress, and the ODPHP Health Information Center (OHIC) database from the Office of Disease Prevention and Health Promotion, U.S. Department of Health and Human Services. The first "specialty" subfile was the Poison Control Centers, added in early August 1986 (see the September 1986 *NLM Technical Bulletin*). These two newest components, and future planned ones, contain a relatively small number of records focused on a particular health-related subject, and in some instances, contain only a certain type of organization.

While small, the DRACON subfile is considered of high interest, because of the great national concern about drug abuse. The DRACON Network contains about 100 state-authorized drug abuse information clearinghouses (plus several centers abroad). Some of these actually have a broader mandate, and provide information on all types of substance abuse (including alcohol), as well as the mental health problems associated with them. The Network receives technical assistance from the National Clearinghouse for Drug Abuse Information (NCDAI), which is part of the National

Institute on Drug Abuse of the U.S. Public Health Service. NCDAI acts as a coordinating body for DRACON.

The DRACON subfile in DIRLINE was built directly by NCDAI, with the assistance of the National Library of Medicine (NLM). NCDAI will maintain the currency of information in the file. Initially, 49 of the DRACON centers were added to DIRLINE. The information used was gathered by NCDAI by means of a questionnaire sent to each center in May 1986. Unfortunately, not all centers responded; creation of a DRACON record was contingent on receiving a completed questionnaire. Hence, the information in each DRACON record, including the abstract, was supplied by the center described. As additional centers respond, new records will be created for them, and they will appear in future DIRLINE updates.

All DRACON records use the acronym "DRA" in the SI (Secondary Source Indicator) field. Each record has a unique number, e.g., DRA/025. A specific record can be called up by its number in the SI field; alternatively, all DRACON centers can be retrieved by searching on DRA qualified by SI. Names in the NA field follow a hierarchical approach, as used particularly in NRC records. Thus, when NA repeats, the last occurrence will be the actual name of the DRACON center.

The IC (Institution Contacts) field does not contain titles of contact persons. Instead, it contains the telephone number(s) of the center. The AD (Address), CY (Country), and ZP (Zip Code) fields are treated similarly to these fields in other DIRLINE components.

The AB (Abstract) field provides a description of the center's activities, formatted similarly to the AB field in NRC records. Each description is specific to the activity of a particular center. The HO (Holdings) field has not been used. Other data elements which are not presently being used for this subfile are GN (General Notes), ID (Identification Number), NT (Name Type), PO (Performing Organization), and SA (Supporting Agency).

Every DRACON record contains a forward cross reference (in the FX field) to the National Clearinghouse for Drug Abuse Information. Some, which provide information on alcohol abuse, and have a described connection with the National Clearinghouse for Alcohol Information (NCALI), have a forward cross reference to this latter agency. Keywords (KW field) were developed by NCDAI in cooperation with NLM, based on information provided in the abstract. Every record contains the keywords "Drug Abuse" and "DRACON", but some, as appropriate, may contain "Alcohol Abuse" and/or "Mental Health". There are some selected additional terms. The EM (Entry Month) field for most DRACON records contains "8605" reflecting the date the questionnaire was received. A few contain a slightly later date.

Figures 1 and 2 display the output from two sample DRACON searches.

The first search (Figure 1) is designed to find all DRACON centers located in New Hampshire by using the acronym DRA from the SI field combined with "New Hampshire" from the CY field. The retrieval is displayed in the default PRINT format.

The second search (Figure 2) is designed to find any DRACON centers located in areas with zip codes beginning with "53", by using the Textword (TW) DRACON and truncating the retrievable zip codes at the root "53". (Note that DRA (SI) could have been entered instead of DRACON (TW)). The posting retrieved is displayed in the PRINT DETAILED format.

II. System Software

A number of changes were made to the search and command software for DIRLINE. When a user enters DIRLINE using the command FILE DIRLINE, a warning message is included:

USER:
file DIRLINE

PROG:
YOU ARE NOW CONNECTED TO THE DIRLINE FILE. DUE TO THE FREQUENCY OF CHANGE, ORGANIZATIONAL ADDRESSES AND TELEPHONE NUMBERS LISTED ARE NOT GUARANTEED TO BE CURRENT.

The message is intended to remind users that while NLM tries to assure the correctness of information in its databases, location data is difficult to keep current. The warning message was considered particularly important after the Poison Control Centers subfile was added, in the event that a telephone number taken from the file in a poisoning emergency proved to be no longer correct.

A completely revised EXPLAIN DIRLINE display is now available online for users who would like to have a description of the database.

The ranging capability has been removed from DIRLINE. Previously, ranging was possible in the ZP (Zip Code) and EM (Entry Month) fields. However, as soon as "Zip+4" zip codes, containing hyphens, were added to this field, ranging no longer worked correctly. Furthermore, because the EM field in DIRLINE refers to the date the subfile producer originally prepared a final record, and not, as with bibliographic databases, the MEDLARS entry month, there is no reason to range on this field. Hence, ranging was removed entirely.

The PO (Performing Organization) data element can now be searched. It is both directly and Textword (TW) searchable. This brings the PO field into line with the search characteristics of the SA (Supporting Agency) field. It is also analogous to PO in the CANCERPROJ database. Formerly, in DIRLINE, PO was not searchable at all.

The NT (Name Type) field now displays only when PRINT DETAILED is issued. It used to appear in PRINT FULL also. However, this field is currently used only in the NRC component, and it was felt that it was the type of information generally consigned to the DETAILED format only.

Finally, though not apparent at the present time to MEDLARS searchers, several new data elements were internally defined to DIRLINE. What this means is that as contents become available for input to these fields, they will begin to be seen in selected records. Future announcements will appear as these data elements receive data which can be displayed.

Users who plan to search DIRLINE should request a copy of the *DIRLINE Self-Instructional Guide*. Although this is not a detailed user's guide, in that it does not cover, comprehensively, all aspects of searching the database, it is intended to get users started. Every effort is being made to keep this guide up-to-date.

| DRACON Record -- PRINT INDENTED | |
|---------------------------------|---|
| SS 1 /C? | |
| USER: | |
| dra (si) | |
| PROG: | |
| SS (1) PSTG (49) | |
| SS 2 /C? | |
| USER: | |
| 1 and new hampshire (cy) | |
| PROG: | |
| SS (2) PSTG (3) | |
| SS 3 /C? | |
| USER: | |
| prt indented | |
| PROG: | |
| 1 | |
| SECONDARY SOURCE ID | DRA/033 |
| NAME | New Hampshire Office of Alcohol and Drug Abuse Prevention |
| NAME | Regional Office for Western New Hampshire |
| ADDRESS | State Office Building, 17 Water Street, Claremont, NH 03743 |
| INSTITUTION CONTACTS | (603) 542-6484 |
| 2 | |
| SECONDARY SOURCE ID | DRA/032 |
| NAME | Solve, Inc. |
| NAME | Alcohol/Drug Abuse Prevention Project |
| ADDRESS | P.O. Box 157, Atkinson, NH 03811 |
| INSTITUTION CONTACTS | (603) 898-1516 |
| 3 | |
| SECONDARY SOURCE ID | DRA/031 |
| NAME | New Hampshire Office of Alcohol and Drug Abuse Prevention |
| ADDRESS | Waldron Towers, Green Street, Dover, NH 03820 |
| INSTITUTION CONTACTS | (603) 749-7326 |

Figure 1

DRACON Record -- PRINT DL INDENTED

SS 3 /C?
 USER:
 (tw) dracon and all 53: (zp)
 PROG:
 SS (3) PSTG (1)

SS 4 /C?
 USER:
 prt dl indented
 PROG:

1
 SECONDARY SOURCE ID
 NAME
 NAME
 ADDRESS
 COUNTRY
 ZIP CODE
 INSTITUTION CONTACTS
 ABSTRACT

DRA/048
 University of Wisconsin Hospital and Clinics
 Wisconsin Clearinghouse
 P.O. Box 1468, Madison, WI 53701
 Wisconsin (WI)
 53701
 (608) 263-2797

INTRODUCTION: The Wisconsin Clearinghouse is the state information center for alcohol and other drug information, also serving schools, agencies, programs, community groups and businesses nationwide. The staff develops publications on alcohol and other drugs, mental health, primary prevention, health promotion and youth development. Assistance is offered to other non-profit organizations in development and distribution of their materials and training of professionals in the selection and use of health education materials. The Clearinghouse assists in the development of public education campaigns, and evaluates health education materials (especially alcohol and drug) and publishes the results. INFORMATION SERVICES:

Distributes publications on alcohol and other drugs, mental health, health promotion, primary prevention pamphlets, booklets, books, manuals, curricula, kits, and posters to elementary school age through adult, including professionals. The library is a non-circulating research collection. These services are available to Wisconsin residents. This program is a member of the Drug Abuse Communications Network (DRACON). FEES: Some publications are free and others are available at nominal cost.

KEYWORDS
 KEYWORDS
 KEYWORDS
 KEYWORDS
 KEYWORDS
 KEYWORDS
 KEYWORDS
 KEYWORDS
 FORWARD XREF

Drug abuse
 Alcohol abuse
 Mental health
 Substance abuse
 DRACON
 Chemical dependence
 Primary prevention
 Youth development
 See also HR/0006, National Clearinghouse for Drug Abuse Information
 8605

ENTRY MONTH

Figure 2

HISTLINE Update

James H. Cassidy
 Young Rhee
 History of Medicine Division, NLM

Beginning with the September 1986 update a number of changes are being planned for the HISTLINE database. Most of these were available online on October 18, 1986.

1. New Data Elements (effective with 8609 (EM) data, prospective only)

a) Language (LA)

The language in which the item is written is directly searchable using the standard three-letter abbreviations (e.g., ENG, FRE, GER). Multilingual works such as symposia or congresses may have up to six occurrences of the LA field. FOR (for Foreign) is generated as a search value for each citation that does not include ENG as a language. The Appendix of Part 8 (CATLINE) of the *Online Services Reference Manual* includes a complete list of language codes. The value FOR may be used to exclude non-English language items:

SS 2 /C?

USER:

surgery and not for (la)

b) Holdings Status (HS)

The purpose of the HS field is to provide a

"flag," for users of the HISTLINE database as well as the printed *Bibliography of the History of Medicine*, to any cited periodical item which is not part of the NLM collection. If this flag is present in a citation, then the periodical is not available from NLM. The value in this field is "N" and is directly searchable using the qualifier (HS). This can be used to eliminate material from 8609 (EM) forward that is not in NLM's collection.

SS 3 /C?

USER:

2 and not n (hs)

Eventually, the value "N" will be translated online to the phrase "This item not in NLM collection." This is expected online sometime after January 1, 1987.

In the *Bibliography of the History of Medicine*, an asterisk (*) appears at the end of the Journal Title Abbreviation for these citations. It is suggested that this field be checked before sending interlibrary loan requests to NLM.

Remember that these two new fields are not present on retrospective (pre-8609 (EM)) records.

2. Changed print commands

The data elements included in the standard print commands have been changed as shown in Table 1.

New HISTLINE PRINT Defaults

| PRINT (PRT) | PRINT FULL (PRT FU) | PRINT DETAILED (PRT DL) |
|-------------|---------------------|-------------------------|
| UI (added) | UI (added) | UI (position moved) |
| AU | AU | AU |
| TI | TI | TI |
| HS (new) | LA (new) | LA (new) |
| SO | KW | KW |
| | PS | PS |
| | HS (new) | CB |
| | SO | AE |
| | | DA |
| | | LR |
| | | EM |
| | | HS (new) |
| | | SO |

Table 1

NOTICE: NTIS PAYMENTS

Many institutional users of the MEDLINE system have a variety of accounts and bills handled through the National Technical Information Service, which acts as the billing agent for NLM and other government agencies. In some cases, the purchasing or billing department of the institutions encloses a single payment or purchase order to cover these various bills. **However, if the top portion of the MEDLARS bill does not accompany the payment, there will probably be a delay in crediting that payment to the proper account.** This is particularly crucial because NTIS will start charging interest on unpaid balances on MEDLARS accounts starting in April 1987 (see the October 1986 *NLM Technical Bulletin* for more information on interest charges). Be sure to notify the billing or purchasing department that they must include the top portion of the monthly invoice in order to avoid inconvenient and possibly costly delays in processing payments and purchase orders.

Monthly Search Hint:

Storing Journal Codes To Be Incorporated Into Search Strategies

Diana Stephens
Pacific Southwest Regional
Medical Library Service

Introduction

Among its other uses, the SAVESEARCH command allows Journal Title Codes (JC) to be stored, recalled online, and incorporated as part of the search strategy. Journal Title Codes are the three-character codes that are assigned to journal titles in the MEDLARS system and can be found in the *List of Serials Indexed for Online Users*. Hospital librarians, librarians with small library collections, or health care professionals may find storing JCs with the SAVESEARCH command very useful.

This procedure allows the librarian to obtain a printout of those articles available in the library for immediate retrieval. At times when two or three recent articles on a topic are needed within a few hours, incorporating the stored JCs as part of the search strategy eliminates those articles which would have to be obtained via interlibrary loan and produces a printout of immediately available articles. The saved JCs can also be used to print out first, citations to articles available from the library's collection, and then others on the topic. Knowing which articles can be obtained immediately and which require interlibrary loan (ILL) requests can be helpful for both librarians and health care professionals. The JCs for the major nursing journals which are indexed in *Index Medicus* and do not appear in the nursing special list may also be stored as a SAVESEARCH to be combined with a search strategy (this method is described in an article by Joyce A. Conner in the *NLM Technical Bulletin* 1985 Jul;195:20-2). Health professionals may find it useful to store JCs for their favorite journals to be run

against SDILINE each month for current awareness of topics in the literature.

SAVESEARCH

SAVESEARCH allows the stored Journal Title Codes to be combined with the online search strategy, and used for the functions discussed above. However, one must remember that with SAVESEARCH, the strategy is saved in the Unified User Specification File (UUSF) where the user profile is stored. Because the User ID code, password, stored address, page length and page width are also stored in this area, ten percent of the space should be reserved when saving searches. If the amount of free space falls below ten percent, the searcher runs the risk of destroying part of the User Profile with the saved search strategy.

To determine the amount of space left in this area, the SAVE LIST command is used. The author of this article saved seventy JCs which left over seventy-five percent free space in this area. For hospital libraries that have collections of under one hundred journal titles and do not have a large number of search requests that require saving searches, there should be adequate space to save the JCs with SAVESEARCH. Each library has to determine whether or not there is enough room to save JCs in the UUSF file with the SAVESEARCH command.

STORESEARCH

For libraries with larger collections, or where it is not feasible to store Journal Title Codes in the UUSF file with SAVESEARCH, STORESEARCH is an alternative way of storing JCs. A STORESEARCH, however, may only be used in OFFSEARCH which means that the STORESEARCH may not be used online. Most of the uses discussed previously for stored JCs therefore do not apply. However, STORESEARCH allows the user to store searches without taking up space in their UUSF. Searches of up to 380 terms or up to 5,800 characters can be entered in a stored search and there is no limit to the number of individual STORESEARCHes that can be stored (refer to the *NLM Online*

Services Reference Manual 1986, Section 5.1.5.1 for complete information on limits and restrictions on the use of STORESEARCH and OFFSEARCH). This is another option for anyone who wants to limit the search to journal articles that are available in the library collection.

Finding and Entering Journal Title Codes

In order to store Journal Title Codes with either SAVESEARCH or STORESEARCH, JCs must be located for each journal title in the library's collection. This can be easily done by consulting the *List of Serials Indexed for Online Users* (LSIOU). The JC is the three-character abbreviation to the right of the journal title as listed there. JCs rather than ISSN numbers or journal title abbreviations are suggested for storage because they take up less space in the storage area and because they are easier to type. When storing JCs in SAVESEARCH, a method for reducing the number of codes which actually have to be stored is to compare the library holdings with the *Abridged Index Medicus* (AIM) list of journals and then store only the codes not in the AIM list. An article by Julia B. Faust discussing this method appears in the *Bulletin of the Medical Library Association* 1982 April;70(2):241-3.

Once the codes have been obtained for each journal title, the SAVESEARCH can be performed. After logging onto the system the command SAVESEARCH is issued. Prequalification eliminates having to type in the qualifier after each code. The codes are connected with the logical OR operator. Leaving the logical operator OR at the end of a line and hitting the carriage return will cause the computer to provide a CONTINUE message so that the codes may be continued on the next line (see Figure 1).

An alternative is to enter each line separately as a search statement. With this method, all previous search statements are ORed together in the last search statement.

When all JCs have been entered with the logical operator OR connecting them, the SAVESEARCH is completed by entering the

instruction FINISHED. At this time the computer will ask for the name of the search. In Figure 1, the name "codes" is given. The JCs in the example were stored while in SERLINE so that each code would retrieve one posting and codes entered incorrectly would produce a NO POSTINGS message. (This will work only for codes for which there is no corresponding title in SERLINE. If a code entered incorrectly matches a code used for some other journal, it will be accepted. Careful rechecking of what has been typed in is a must to be sure that one has stored only the desired codes.) The JCs can now be used online as part of the search strategy (see Figure 2).

Using Stored Journal Title Codes in Searching

In the search strategy in Figure 2, the stored Journal Title Codes were combined with the search topic, in this case the use of lithium to treat bipolar disorder or depression. The SN (Search Name) qualifier is used to refer to the search name for the stored JCs. The end result will be a retrieval for journals held in the library or articles appearing in specific journals.

In the example given in Figure 2, the searcher could have presented the patron with a separate list of citations for those journals not available in the library. At SS 5, the searcher could enter:

```
SS 5 /C?
USER:
3 and not 4

PROG:
SS (5) PSTG (183)
```

This would allow the searcher to print another list of citations to articles in journals not available in the library's collections and which could be ordered via interlibrary loan.

The storing of JCs has several benefits for small libraries. Individual searchers who wish to limit their retrieval to citations published in particular journals will also find this useful.

Summary

The various methods of saving a search strategy (such as a list of Journal Title Codes) are summarized below:

SAVE is a command used *after* a search strategy has been input to the computer to save the strategy to be used online or in OFFSEARCH. The SAVED search can be used by itself or incorporated as part of another search strategy. It is stored in the User Profile area. Only search statements that have postings are saved.

SAVESEARCH may be used *before* a search strategy has been input to the computer to save all search statements until the searcher issues the FINISHED instruction. The search strategy may be used online or in

OFFSEARCH and is stored in the User Profile area. Search statements are saved even if there are no postings when they are first entered.

STORESEARCH may be used before a search strategy has been entered. All search statements are saved whether or not there are postings until the searcher enters the instruction FINISHED. Stored searches may only be used in OFFSEARCH.

OFFSEARCH is the command used when the searcher wishes to input a strategy once and have it run against up to six different files overnight. Offline prints for the search strategy are mailed to the searcher. OFFSEARCH is the only way a STORESEARCH may be executed.

Storing Journal Title Codes (JC)

```

SS 1 /C?
USER:
file serline

PROG:
YOU ARE NOW CONNECTED TO THE SERLINE FILE.

SS 1 /C?
USER:
savesearch

PROG:
ENTER SEARCH-

*STS* SS 1 /C?
USER:
(jc) bpc or cjt or ck6 or cjp or clr or c8r or clp or

PROG:
CNT 1

USER:
qge or qgh or qgi or pss or qgk or qgr or qh4 or qh7 or qha

PROG:
SS (1) PSTG (16)

*STS* SS 2 /C?
USER:
finished

PROG:
SEARCHNAME?

USER:
codes

PROG:
SEARCH SET FROM SS 1 FORWARD SAVED AS 'CODES'.
SAVESEARCH COMPLETED.
    
```

Figure 1

Using Saved JCs In A Search

```

SS 1 /C?
USER:
bipolar disorder/dt or depression/dt

PROG:
SS (1) PSTG (558)

SS 2 /C?
USER:
lithium/tu

PROG:
SS (2) PSTG (535)

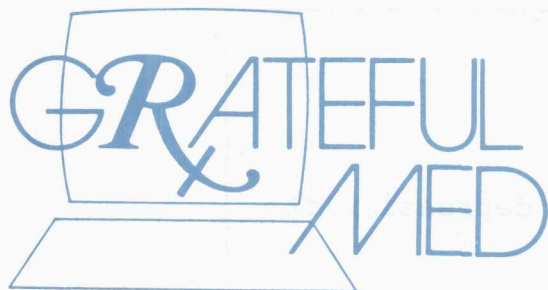
SS 3 /C?
USER:
1 and 2

PROG:
SS (3) PSTG (189)

SS 4 /C?
USER:
3 and codes (sn)

PROG:
SS (4) PSTG (6)
    
```

Figure 2



Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated.

When GRATEFUL MED logs into the NLM computer to do my search, I sometimes see messages like NLM COMPUTER DOWN SUN 10/26 7AM TO 8AM; CHANGES TO HISTLINE/RTECS, ACCESS FILE INFORM AND TYPE NEWS. Could you explain these messages and tell me how to access FILE INFORM?

When you are logging into the NLM computer you are automatically sent a message that is called a Broadcast. This Broadcast is one method that MEDLARS Management employs to relay important information to online users. It can only be two lines in length and often runs for one day or a portion of a day. More important Broadcasts can run longer than one day. The Broadcast contains information that MEDLARS Management considers urgent, such as the announcement of database updates.

Whenever space in the Broadcast permits, MEDLARS Management will include the message "ACCESS FILE INFORM AND TYPE NEWS". The NEWS is another method of communicating information to online users. Some of the NEWS items may contain more information than a broadcast and most NEWS items will run for one week. You may look at the NEWS while connected to any ELHILL database, but FILE INFORM use is charged at reduced rates so you will save 50% to 60% by using FILE INFORM to read the NEWS. In order to access FILE INFORM from

GRATEFUL MED, you would need to choose option 3 from the ACTION Screen (direct access). Once GRATEFUL MED has connected to the NLM computer, you'll be logged into MEDLINE. To access FILE INFORM and get the NEWS:

At: SS 1 /C?
USER:

Type: file inform (CR)

Once logged into file INFORM:

At: SS 1 /C?
USER:

Type: news (CR)

You will first see a summary chart of the available NEWS items. This summary chart prints as the first NEWS item and shows at a glance what the topic of each NEWS note is and when it was entered online. You will see the prompt, MORE NEWS? (YES/NO), after each NEWS item so that you can read the NEWS items one at a time. This allows you to stop when you get to a NEWS item that you have already read.

Once you have finished all the NEWS items you wish to see, enter STOP Y at a USER: prompt, and GRATEFUL MED will log you off the NLM computer.

For more complete information on the NEWS and Broadcasts please refer to the article in the July 1985 issue of the *NLM Technical Bulletin* entitled, "The NEWS in Review".

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p. 3.
INTRODUCING GRATEFUL MED BY
SATELLITE, p. 12
ERRATA IN 1987 MESH, p.19

Introducing GRATEFUL MED By Satellite

NLM and the VA Co-Sponsor Test Broadcast

Becky Lyon-Hartmann
Regional Medical Library Program

The National Library of Medicine and the Veterans Administration (VA) are conducting a joint experiment to test the feasibility of using satellite communications to broadcast an educational program to a large, geographically dispersed audience. On January 22, 1987 from 2:00 to 4:00 pm Eastern Time, NLM will present "Introducing GRATEFUL MED: Easy Access to the World's Biomedical Literature" to 22 Veterans Administration Medical Centers (VAMC) in the states of California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington and Wyoming using the Hospital Satellite Network.

The program will be developed and presented by staff of NLM's MEDLARS Management Section and will feature the user-friendly search capabilities of the GRATEFUL MED software program, which provides easy access to MEDLINE and other NLM databases. Live audio question and answer segments will also be included so that attendees will be able to ask questions of the instructors. Participation is open to all health professionals and search intermediaries. Although preregistration is required, there is no registration fee. Participants will be asked to complete an evaluation form at the end of the program.

This is a good opportunity for health professionals and search intermediaries to learn how to use this very popular search interface. It will also be useful to have a large number and variety of health professionals evaluate video teleconferencing as a method of obtaining training.

To obtain further information about the broadcast or to request a registration form, contact the appropriate VAMC directly.

CALIFORNIA

Fresno
Cynthia Meyer, (209) 225-6100

Livermore
Jane Levie, (415) 447-2560

Martinez
Dorothea Bennett, (415) 228-6800

Palo Alto
C. Reese Gallimore, (415) 493-5000

San Francisco
William Koch, (415) 221-4810

COLORADO

Denver
Chief, Library Service, (303) 399-8020

Fort Lyon
Helen Bradley, (303) 456-1260

Grand Junction
Lynn L. Bragdon, (308) 382-3660

IDAHO

Boise
Gordon Carlson, (208) 336-5100

MONTANA

Fort Harrison
Chief, Library Service, (919) 488-2120

Miles City
Elizabeth Alme, (406) 232-3060

NEVADA

Reno
Janet Monk, (702) 329-1051

OREGON

Portland
Nymah Trued, (503) 222-9221

Roseburg
Kathy Jordan, (503) 672-4411

White City
Sarah Fitzpatrick, (503) 424-3796

UTAH

Salt Lake City
Chief, Library Service, (801) 582-1565

WASHINGTON

American Lake (Tacoma)
Dennis Levi, (206) 582-8440

Seattle
Mary Jo Harbold, (206) 764-2065

Spokane
Ruth Jones, (509) 328-4521

Walla Walla
Max Merrell, (509) 525-5200

WYOMING

Cheyenne
Eris Kirby, (307) 778-7550

Sheridan
Mary Curtis-Kellett, (307) 672-3473

Errata In The 1987 MeSH

Medical Subject Headings -- Tree Structures

1. Listed below are the corrected tree numbers for the Medical Subject Headings -- Tree Structures, 1987. The underlined page numbers indicate the page where the erroneous tree number appears in bold face in the numeric tree number sequence. The other page numbers are those where the erroneous tree number appears in small type to the right of the main tree number numeric sequence. These additional tree numbers indicate where the heading is located elsewhere in the Tree Structures. In this instance, to locate the tree number to be corrected, scan the page for the heading and then correct the appropriate tree number on the right. Please note that these additional tree numbers may be truncated at the third hierarchical level so the full tree number listed below may not appear.

| | | |
|-------------------------|------------------------------|--|
| p. XXV | SOFTWARE | Change L1.568.810 to L1.700.568.810 |
| p. 58, <u>60</u> | CHANCROID | Change C1.539.919.173 to C1.539.780.173 |
| p. 58, <u>60</u> | GONORRHEA | Change C1.539.919.367 to C1.539.780.367 |
| p. 58, <u>60</u> 122 | GRANULOMA INGUINALE | Change C1.539.919.451 to C1.539.780.451 |
| p. <u>60</u> | LYMPHOGRANULOMA VENEREUM | Change C1.539.919.603 to C1.539.780.603 |
| p. 58, <u>60</u> | SYPHILIS | Change C1.539.919.859 to C1.539.780.859 |
| p. <u>68</u> , 75 | HAMARTOMA SYNDROME, MULTIPLE | Change C4.430.435 to C4.435 |
| p. <u>81</u> , 83 | ESOPHAGITIS, PEPTIC | Change C6.306.506.414 to C6.306.780.414 |
| p. <u>90</u> , 117 | CHOANAL ATRESIA | Change C9.603.171. to C9.603.171 |
| p. 73, <u>91</u> | MAXILLARY SINUS NEOPLASMS | Change C9.652.503.575 to C9.692.503.575 |
| p. <u>176</u> | MEPARTRICIN | Change D2.455.326.271.665.530.400 to D2.455.326.271.665.400 |

| | | |
|------------------------------|----------------------------|--|
| p. <u>176,</u> <u>302</u> | MEPARTRICIN | Change D20.85.632.592 to D20.85.500 |
| p. <u>318</u> | HLA-D ANTIGENS | Change D24.611.216.705.50.260 to D24.611.216.705.552.50.400 <u>Add</u> D24.611.216.705.552.450.400 |
| p. <u>318</u> | HLA-DP ANTIGENS | Change D24.611.216.705.50.260.260 to D24.611.216.705.552.50.420 <u>Add</u> D24.611.216.705.552.450.420 |
| p. <u>318</u> | HLA-DQ ANTIGENS | Change D24.611.216.705.50.260.270 to D24.611.216.705.552.50.430 <u>Add</u> D24.611.216.705.552.450.430 |
| p. <u>318</u> | HLA-DR ANTIGENS | Change D24.611.216.705.50.260.280 to D24.611.216.705.552.50.440 <u>Add</u> D24.611.216.705.552.450.440 |
| p. <u>334</u> | ANTIGENS, IMMUNE RESPONSE | Change D26.611.216.705.50 to D24.611.216.705.552.50 |
| p. <u>349</u> | ANESTHESIA, CLOSED-CIRCUIT | Change E3.155.179.197.280 to E3.155.197.197.280 |
| p. <u>400</u> | RECEPTORS, GONADOTROPIN | Change G6.184.154.803.648.740.405 to G6.184.154.803.740.405 |
| p. <u>453</u> | SPECIALTY BOARDS | Change N3.706.110.210.580 to N3.706.110.120.580 |

2. The following three terms are missing D tree numbers in the printed MeSH. Add them in the appropriate places in the numeric sequence on p. 268. (The page number given in parenthesis is that on which each term appears in the G tree sequence. Add the D tree number to the small-type columns on the right).

| | | |
|-------------------------------------|---------------------|---------|
| RECEPTORS, GASTROINTESTINAL HORMONE | D12.776.543.750.642 | (p.399) |
| RECEPTORS, NEUROHUMOR | D12.776.543.750.790 | (p.399) |
| RECEPTORS, PITUITARY HORMONE | D12.776.543.750.793 | (p.400) |

Medical Subject Headings -- Annotated Alphabetic List, 1987

1. Please make the following tree number changes on the pages given in the Medical Subject Headings -- Annotated Alphabetic List, 1987.

ANESTHESIA, CLOSED-CIRCUIT p.43
See Refs ANESTHESIA, REBREATHING p.44
 CLOSED-CIRCUIT ANESTHESIA p.163
Change E3.155.179.197.280
 to E3.155.197.197.280

ANTIGENS, IMMUNE RESPONSE p.53

See Refs CLASS II ANTIGENS p.160

IA ANTIGENS p.387

IA-LIKE ANTIGENS p.387

IMMUNE-ASSOCIATED ANTIGENS p.390

IMMUNE RESPONSE ANTIGENS p.390

IMMUNE-RESPONSE-ASSOCIATED ANTIGENS p.390

Change D26.611.216.705.50

to D24.611.216.705.552.50

CHANCROID p.140

Change C1.539.919.173

to C1.539.780.173

CHOANAL ATRESIA p.148

Change C9.603.171.

to C9.603.171

ESOPHAGITIS, PEPTIC p.271

See Ref ESOPHAGITIS, REFLUX p.271

Change C6.306.506.414

to C6.306.780.414

GONORRHEA p.331

Change C1.539.919.367

to C1.539.780.367

GRANULOMA INGUINALE p.333

See Ref GRANULOMA, VENEREUM p.333

Change C1.539.919.451

to C1.539.780.451

HAMARTOMA SYNDROME, MULTIPLE p.340

See Refs COWDEN'S DISEASE p.183

MULTIPLE HAMARTOMA SYNDROME p.502

Change C4.430.435

to C4.435

HLA-D ANTIGENS p.364

See Refs CLASS II HUMAN ANTIGENS p.160

HLA-D-RELATED ANTIGENS p.364

HLA-DW ANTIGENS p.364

HUMAN CLASS II ANTIGENS p.372

IA-LIKE ANTIGENS, HUMAN p.387

IMMUNE-ASSOCIATED ANTIGENS, HUMAN p.390

IMMUNE-RESPONSE ANTIGENS, HUMAN p.390

IMMUNE RESPONSE-ASSOCIATED ANTIGENS, HUMAN p.390

Change D24.611.216.705.50.260

to D24.611.216.705.552.50.400

Add D24.611.216.705.552.450.400

HLA-DP ANTIGENS p.364

See Refs HLA-PL ANTIGENS p.365
 HLA-SB ANTIGENS p.365
Change D24.611.216.705.50.260.260
 to D24.611.216.705.552.50.420
Add D24.611.216.705.552.450.420

HLA-DQ ANTIGENS p.364

See Refs HLA-DC ANTIGENS p.364
 HLA-MB ANTIGENS p.364
Change D24.611.216.705.50.260.270
 to D24.611.216.705.552.50.430
Add D24.611.216.705.552.450.430

HLA-DR ANTIGENS p.364

See Refs HLA-BR ANTIGENS p.364
 HLA-MT ANTIGENS p.364
Change D24.611.216.705.50.260.280
 to D24.611.216.705.552.50.440
Add D24.611.216.705.552.450.440

LYMPHOGRANULOMA VENEREUM p.453

See Ref LYMPHOGRANULOMA INGUINALE p.453
Change C1.539.919.603
 to C1.539.780.603

LYMPHOMA p.454

Replace the annotation with:
 "malignant lymphoma" can go here; do not confuse with
 malignant lymphogranuloma (= HODGKIN'S DISEASE);
 "non-Hodgkin's lymphoma" = LYMPHOMA, NON-HODGKIN'S or
 specific indentions; "Mediterranean lymphoma" =
 LYMPHOMA, MEDITERRANEAN see IMMUNOPROLIFERATIVE SMALL
 INTESTINAL DISEASE; /anal /blood /secret /supply
 /ultrastruct permitted; coord IM with precoord
 organ/neopl term (IM)

MAXILLARY SINUS NEOPLASMS p.465

Change C9.652.503.575
 to C9.692.503.575

MEPARTRICIN p.474

See Ref METHYLPARTRICIN p.484
Change D2.455.326.271.665.530.400
 to D2.455.326.271.665.400
Change D20.85.632.592
 to D20.85.500

RECEPTORS, GASTROINTESTINAL HORMONE p.655

See Refs GASTROINTESTINAL HORMONE RECEPTORS p.315
 INTESTINAL HORMONE RECEPTORS p.409
Add D12.776.543.750.642

RECEPTORS, GONADOTROPIN p.655

See Refs CHORIONIC GONADOTROPIN RECEPTORS p.152
 GONADOTROPIN RECEPTORS p.331
 MENOTROPIN RECEPTORS p.473
 PITUITARY GONADOTROPIN RECEPTORS p.597

Change G6.184.154.803.648.740.405
 to G6.184.154.803.740.405

RECEPTORS, NEUROHUMOR p.656

See Refs NEUROHUMOR RECEPTORS p.521
 NEUROMEDIATOR RECEPTORS p.521
 NEUROMODULATOR RECEPTORS p.521
 NEUROREGULATOR RECEPTORS p.523

Add D12.776.543.750.790

RECEPTORS, PITUITARY HORMONE p.656

See Ref PITUITARY HORMONE RECEPTORS

Add D12.776.543.750.793

SPECIALTY BOARDS p.709

Change N3.706.110.210.580
 to N3.706.110.120.580

SYPHILIS p.737

Change C1.539.919.859
 to C1.539.780.859

2. In the list of "Deleted Medical Subject Headings With Replaced-By Headings - 1987" on p. LXXVIII:

The deleted heading AVAILABILITY EQUIVALENCY should be followed by (ep), indicating that it is still usable as a printed cross-reference to BIOLOGICAL AVAILABILITY.

3. The following printed see references should be deleted.

- p. 655 **RECEPTORS, EPIDERMAL GROWTH FACTOR-UROGASTRONE**
 X EPIDERMAL GROWTH FACTOR-UROGASTRONE RECEPTORS
- p. 264 **EPIDERMAL GROWTH FACTOR-UROGASTRONE RECEPTORS** see RECEPTORS,
 EPIDERMAL GROWTH FACTOR-UROGASTRONE
- p. 648 **RADIOGRAPHIC IMAGE INTERPRETATION, COMPUTER ASSISTED**
 X IMAGE INTERPRETATION, COMPUTER ASSISTED RADIOGRAPHIC
- p. 389 **IMAGE INTERPRETATION, COMPUTER ASSISTED RADIOGRAPHIC** see
 RADIOGRAPHIC IMAGE INTERPRETATION, COMPUTER ASSISTED
- p. 469 **MEDICATION SYSTEMS, HOSPITAL**
 X UNIT DOSE DRUG DISTRIBUTION SYSTEMS, HOSPITAL
- p. 783 **UNIT DOSE DRUG DISTRIBUTION SYSTEMS, HOSPITAL** see MEDICATION
 SYSTEMS, HOSPITAL

Serials Update

INDEXED TITLES UPDATE, NOVEMBER 1986

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the

last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, OCTOBER 1986

IM ADVANCES IN CONTRACEPTION
 ADV CONTRACEPT
 IN1,MAR 1985--
 MTP PRESS
 LANCASTER ENGLAND
 OFFICIAL JOURNAL OF THE SOCIETY FOR THE
 ADVANCEMENT OF CONTRACEPTION.
 INDEXING BEGAN WITH V1N1,1985
 W1 AD546C 0267-4874
 SR0055425 JTC: 2K8
 KLUWER ACADEMIC PUBLISHERS
 GROUP,DISTRIBUTION CENTER,P.O. BOX
 322,3300 AH DORDRECHT,NETHERLANDS

IM BIOESSAYS
 BIOESSAYS
 IN1,JUL 1984--
 CAMBRIDGE UNIVERSITY PRESS FOR THE ICSU
 PRESS
 CAMBRIDGE ENGLAND
 ISSUE FOR JULY 1984 CALLED ALSO FIRST ISSUE.
 INDEXING BEGAN WITH V3N1,1985.
 W1 BI663P 0265-9247
 SR0051782 JTC: 9YY

IM BIOSENSORS
 BIOSENSORS
 IN1,1985--
 ELSEVIER APPLIED SCIENCE PUBLISHERS
 BARKING ESSEX ENGLAND
 INDEXING BEGAN WITH V1N1,1985.
 W1 BI915H 0265-928X
 SR0053536 JTC: 9Z9

INI CANADIAN OPERATING ROOM NURSING JOURNAL
 CAN OPER ROOM NURS J
 IN1,FEB 1983--
 HEALTH MEDIA INC. FOR THE OPERATING ROOM
 NURSES OF CANADA
 WILLOWDALE, ONT CANADA
 INDEXING BEGAN WITH V3N3,MAY-JUN 1985.
 W1 CA634 0712-6778
 C04715000 JTC: CJ2

IM CANCER SURVEYS
 CANCER SURV
 IN1,SPRING 1982--
 OXFORD UNIVERSITY PRESS FOR THE IMPERIAL
 CANCER RESEARCH FUND
 OXFORD ENGLAND
 INDEXING BEGAN WITH V4N1,1985.
 W1 CA692D 0261-2429
 C06055000 JTC: CNG

IM CONTEMPORARY ISSUES IN CLINICAL BIOCHEMISTRY
 CONTEMP ISSUES CLIN BIOCHEM
 1,1984--
 CHURCHILL LIVINGSTONE
 EDINBURGH SCOTLAND
 INDEXING BEGAN WITH V1,1984.
 W1 C0769MQC 0265-6701
 SR0054576 JTC: DRA
 CHURCHILL LIVINGSTONE, ROBERT STEVENSON
 HOUSE, 1-3 BAXTERS PLACE, LEITH WALK
 EDINBURGH, EH1 3AF SCOTLAND

IM CRC CRITICAL REVIEWS IN CLINICAL
 NEUROBIOLOGY
 CRC CRIT REV CLIN NEUROBIOL
 IN1,1984--
 CRC PRESS
 BOCA RATON FL UNITED STATES
 CALLED ALSO: CRITICAL REVIEWS IN CLINICAL
 NEUROBIOLOGY.
 INDEXING BEGAN WITH V1N1,1985.
 W1 CR1242 0742-941X
 SR0051965 JTC: DTR

IM CRISIS
 CRISIS
 IN1,APR 1980--
 HOGREFE
 TORONTO CANADA
 PUBLISHED UNDER THE AUSPICES OF THE
 INTERNATIONAL ASSOCIATION FOR SUICIDE
 PREVENTION.
 INDEXING BEGAN WITH V6N1,1985.
 W1 CR202M 0227-5910
 C52317000 JTC: DT9
 C.J.HOGREFE INC, 525 EGLINTON AVE E,
 TORONTO ONTARIO M4P 1N5, CANADA

IM EURO REPORTS AND STUDIES
 EURO REP STUD
 1,1979--
 REGIONAL OFFICE FOR EUROPE, WORLD HEALTH
 ORGANIZATION
 COPENHAGEN DENMARK
 INDEXING BEGAN WITH N91,1985.
 W1 E59 0250-8710
 E14910000 JTC: EUO
 WORLD HEALTH ORGANIZATION, DISTRIBUTION
 AND SALES, 1211 GENEVA 27, SWITZERLAND

IM EUROPEAN JOURNAL OF EPIDEMIOLOGY
 EUR J EPIDEMIOL
 IN1, MAR 1985--
 EUROPEAN JOURNAL OF EPIDEMIOLOGY
 ROME ITALY
 INDEXING BEGAN WITH VINI, MAR 1985.
 W1 EU72DE 0392-2990
 SR0054183 JTC: ERE
 EUROPEAN JOURNAL OF EPIDEMIOLOGY, P.O.
 BOX 6180, 00100 ROME, ITALY

IDL FUKUOKA SHIKA DAIGAKU GAKKAI ZASSHI
 FUKUOKA SHIKA DAIGAKU GAKKAI ZASSHI
 IN1, 1974--
 SOCIETY OF FUKUOKA DENTAL COLLEGE
 FUKUOKA JAPAN
 CALLED ALSO: FUKUOKA DENTAL COLLEGE SOCIETY
 JOURNAL, 1974-1980; THE JOURNAL OF FUKOUKA
 DENTAL COLLEGE, 1981- .
 INDEXING BEGAN WITH V13N1, 1986.
 W1 FU503M 0385-0064
 F14750000 JTC: ER7

IDL JOURNAL / AMERICAN ACADEMY OF GNATHOLOGIC
 ORTHOPEDICS
 J AM ACAD GNATHOL ORTHOP
 IN1, 1984--
 AMERICAN ACADEMY OF GNATHOLOGIC ORTHOPEDICS
 HOUSTON TX UNITED STATES
 ISSUED IN COOPERATION WITH THE
 INTERNATIONAL ASSOCIATION FOR ORTHODONTICS,
 SEP 1985.
 INDEXING BEGAN WITH V3N3, SEP 1986.
 ON ORDER 0886-0164
 SR0058078 JTC: HAP
 LAWRENCE M. ALDERSON, D.D.S., 7324
 SOUTHWEST FRWY., SUITE 885, HOUSTON TX
 77074

IDL JOURNAL DE BIOMATERIAUX DENTAIRES
 J BIOMATER DENT
 IN1, JAN 1985--
 EDITIONS CDP
 PARIS FRANCE
 INDEXING BEGAN WITH VINI, JAN 1985.
 W1 J0237KH 0295-6195
 SR0056597 JTC: HJH

IM JOURNAL OF EXPERIMENTAL PATHOLOGY
 J EXP PATHOL
 IN1, 1983--
 MARY ANN LIEBERT
 NEW YORK UNITED STATES
 INDEXING BEGAN WITH VINI, 1985.
 W1 J0644R 0730-8485
 J20615000 JTC: JEX
 MARY ANN LIEBERT, 1651 THIRD AVE, NEW YORK
 NY 10128

IDL JOURNAL OF FORENSIC ODONTO-STOMATOLOGY
 J FORENSIC ODONTOSTOMATOL
 IN1, JAN/JUN 1983--
 JOURNAL OF FORENSIC ODONTO-STOMATOLOGY
 JOHANNESBURG SOUTH AFRICA
 INDEXING BEGAN WITH VINI, 1983.
 W1 J0656
 J21670000 JTC: HPL

IM JOURNAL OF GENERAL INTERNAL MEDICINE
 J GEN INTERN MED
 IN1, JAN/FEB 1986--
 HANLEY AND BELFUS
 PHILADELPHIA UNITED STATES
 OFFICIAL JOURNAL OF THE SOCIETY FOR
 RESEARCH AND EDUCATION IN PRIMARY CARE
 INTERNAL MEDICINE.
 INDEXING BEGAN WITH VINI, JAN-FEB 1986.
 W1 J0667F 0884-8734
 SR0055345 JTC: JGI
 HANLEY AND BELFUS INC., 210 SOUTH 13TH
 STREET, PHILADELPHIA PA 19107

IM JOURNAL DE TOXICOLOGIE CLINIQUE ET
 EXPERIMENTALE
 J TOXICOL CLIN EXP
 5N1, JAN/FEB 1985--
 MASSON
 PARIS FRANCE
 CONTINUES: JOURNAL DE TOXICOLOGIE MEDICALE.
 OFFICIAL ORGAN OF THE SOCIETE FRANCAISE DE
 TOXICOLOGIE.
 INDEXING BEGAN WITH V5N1, JAN-FEB 1985.
 W1 J03653D 0753-2830
 SR0054012 JTC: JTC

IM MA TSUI HSUEH TSA CHI
 MA TSUI HSUEH TSA CHI
 SOCIETY OF ANESTHESIOLOGISTS OF REPUBLIC OF
 CHINA
 TAIPEI TAIWAN
 INDEXING BEGAN WITH V23N1, MAR 1985.
 W1 MA102 0254-1319
 M00050000 JTC: MAT
 SOCIETY OF ANESTHESIOLOGISTS OF REPUBLIC
 OF CHINA, P.O. BOX 26-473, TAIPEI, TAIWAN

IM MD COMPUTING
 MD COMPUT
 IN1, 1984--
 SPRINGER-VERLAG
 NEW YORK UNITED STATES
 VOL. 1, NO. 1 PRECEDED BY A PREMIER ISSUE
 WITH TITLE: MEDCOMP.
 INDEXING BEGAN WITH VINI, 1984.
 W1 MD9994 0724-6811
 M08470000 JTC: MDC

IM MEDICAL TOXICOLOGY
 MED TOXICOL
 IN1, JAN/FEB 1986--
 ADIS PRESS
 AUCKLAND NEW ZEALAND
 AN INTERNATIONAL JOURNAL OF CLINICAL
 TOXICOLOGY AND ADVERSE DRUG REACTION
 EXPERIENCES.
 INDEXING BEGAN WITH VINI, JAN-FEB 1986.
 W1 ME5276 0112-5966
 SR0055227 JTC: MDT
 ADIS PRESS, 401 SOUTH STATE STREET,
 NEWTON PA 18940

- IM MEDICINE AND WAR
 MED WAR
 IN1,JAN/APR 1985--
 JOHN WILEY AND SONS
 CHICHESTER ENGLAND
 VOL 1 COMPLETE IN 3 ISSUES.
 INDEXING BEGAN WITH VIN1,1985.
 W1 ME649W 0748-8009
 SR0052491 JTC: M6N
- IM MEDIZINISCHE KLINIK
 MED KLIN
 78JAHRG,1(21JAN)1983--
 URBAN UND VOGEL
 MUNCHEN GERMANY, WEST
 CONTINUES: MEDIZINISCHE KLINIK
 [KLINIK-AUSG.].
 INDEXING BEGAN WITH V81N1,1986.
 W1 ME8236TC 0723-5003
 M25525000 JTC: M9K
 URBAN UND SCHWARZENBERG, POSTFACH 20 24
 40, 8 MUNCHEN 2, FEDERAL REPUBLIC OF
 GERMANY
- IM MEDIZINISCHE KLINIK. SUPPLEMENT
 MED KLIN (SUPPL)
 IN1,MAR 1986--
 URBAN UND VOGEL
 MUNCHEN GERMANY, WEST
 CALLED ALSO: THERAPIE DER GEGENWART.
 SUPPLEMENT
 INDEXING BEGAN WITH VIN1,1986.
 W1 ME8236TCG
 SR0056508 JTC: MRT
 URBAN UND VOGEL,LINDWURMSTRASSE
 95,D-8000 MUNCHEN 2,WEST GERMANY
- IM MICROSCOPIA ELECTRONICA Y BIOLOGIA CELULAR
 MICROSC ELECTRON BIOL CELULAR
 8N1,MAR-JUN 1984--
 SOCIEDADES LATINOAMERICANA DE MICROSCOPIA
 ELECTRONICA
 MENDOZA ARGENTINA
 CONTINUES: REVISTA DE MICROSCOPIA
 ELECTRONICA.
 INDEXING BEGAN WITH V9N1,1985.
 W1 MI309LH 0326-3142
 SR0055895 JTC: MWJ
 MICROSCOPIA ELECTRONICA Y BIOLOGIA
 CELULAR, CASILLA DE CORREO 131, 5500
 MENDOZA ARGENTINA
- IM MOLEKULIARNAIA GENETIKA, MIKROBIOLOGIA, I
 VIRUSOLOGIA
 MOL GEN MIKROBIOL VIRUSOL
 1,1983--
 MOLEKULIARNAIA GENETIKA MIKROBIOLOGIA I
 VIRUSOCOGIA
 MOSKVA USSR
 UNCATALOGED SERIAL RECORD.
 INDEXING BEGAN WITH N1,1985.
 W1 M0198L 0208-0613
 M43510000 JTC: NMJ
 MOLEKULIARNAIA GENETIKA MIKROBIOLOGIA I
 VIRUSOLOGIA,117 GSP-7, MOSKA B-246 USSR
- IM NEW DIRECTIONS FOR CHILD DEVELOPMENT
 NEW DIR CHILD DEV
 N1,1978--
 JOSSEY-BASS
 SAN FRANCISCO UNITED STATES
 INDEXING BEGAN WITH N27,1985.
 W1 NE374DR 0195-2269
 N14443000 JTC: N6G
 JOSSEY-BASS, 433 CALIFORNIA ST., SAN
 FRANCISCO CA 94104
- IM PEDIATRIC EMERGENCY CARE
 PEDIATR EMERG CARE
 IN1,MAR 1985--
 WILLIAMS AND WILKINS
 BALTIMORE UNITED STATES
 INDEXING BEGAN WITH VIN1,1985.
 W1 PE167FC 0749-5161
 SR0051332 JTC: PAU
 WILLIAMS AND WILKINS, 428 E. PRESTON
 STREET, BALTIMORE MD 21202
- IM TOXICOLOGY AND INDUSTRIAL HEALTH
 TOXICOL IND HEALTH
 IN1,1985--
 PRINCETON SCIENTIFIC
 PRINCETON NJ UNITED STATES
 INDEXING BEGAN WITH VIN1,1985.
 W1 T095B 0748-2337
 SR0054193 JTC: VNS
 PRINCETON SCIENTIFIC PUBLISHERS
 INC.,P.O. BOX 2155,PRINCETON NJ 08540

- IM VIRUS RESEARCH. SUPPLEMENT
 VIRUS RES [SUPPL]
 1,SEP 1985--
 ELSEVIER SCIENCE PUBLISHERS
 AMSTERDAM NETHERLANDS
 SUPPLEMENT TO: VIRUS RESEARCH.
 INDEXING BEGAN WITH V1,1985.
 W1 V1836DA 0168-1702
 SR0058100 JTC: XEN

THE FOLLOWING TITLES WILL NOW BE INDEXED
FOR IM AS WELL AS FOR INI

INI CANCER NURSING
IM

CANCER NURS
1,FEB 1978--
RAVEN PRESS
NEW YORK UNITED STATES
VIN1,1978-V8N1,1985 PUBLISHED BY MASSON.
INDEXING FOR IM BEGAN WITH V9N4,1986.
W1 CA6845 0162-220X
C05740000 JTC: CNC

IM COMPUTERS IN NURSING
INI

COMPUT NURS
IN1,MAR 1983--
LIPPINCOTT
PHILADELPHIA UNITED STATES
INCLUDES 3RD (1983) AND 4TH (1984)
PROCEEDINGS OF THE NATIONAL CONFERENCE ON
COMPUTER TECHNOLOGY AND NURSING.
INDEXING FOR INI BEGAN WITH V1,1983.
INDEXING FOR IM BEGAN WITH V4N5,1986.
W1 C04572BC 0736-8593
C36405000 JTC: CIN

IM GERIATRIC NURSING
INI

GERIATR NURS (NEW YORK)
1,MAY/JUN 1980--
AMERICAN JOURNAL OF NURSING COMPANY
NEW YORK UNITED STATES
INDEXING FOR IM BEGAN WITH V7N6,1986.
W1 GE457CB 0197-4572
G05600500 JTC: FW7
AMERICAN JOURNAL OF NURSING COMPANY, 555
WEST 57 ST, NEW YORK NY 10019

INI JOURNAL OF PROFESSIONAL NURSING
IM

J PROF NURS
IN1,JAN-FEB 1985--
W.B. SAUNDERS
PHILADELPHIA UNITED STATES
OFFICIAL JOURNAL OF THE AMERICAN
ASSOCIATION OF COLLEGES OF NURSING.
INDEXING FOR INI BEGAN WITH VIN1,1985.
INDEXING FOR IM BEGAN WITH V3N5,1986.
W1 J08443F 8755-7223
SR0054450 JTC: H3P

INI MCN; AMERICAN JOURNAL OF MATERNAL CHILD
NURSING

HLI
IM
MCN
1,1976--
AMERICAN JOURNAL OF NURSING
NEW YORK UNITED STATES
INDEXING FOR IM BEGAN WITH V11N6,1986.
W1 M225 0361-929X
M08380000 JTC: MA3

INI PUBLIC HEALTH NURSING
IM

PUBLIC HEALTH NURS
IN1,MAR 1984--
BLACKWELL SCIENTIFIC PUBLICATIONS
BOSTON UNITED STATES
INDEXING FOR INI BEGAN WITH VOL. 1 NO.
1,MAR 1984. INDEXING FOR IM BEGAN WITH
V3N4,1986.
W1 PU532 0737-1209
SR0050967 JTC: PHN

INI WESTERN JOURNAL OF NURSING RESEARCH
IM

WEST J NURS RES
1,WINTER 1979--
SAGE PUBLICATIONS
BEVERLY HILLS CA UNITED STATES
INDEXING FOR IM BEGAN WITH V8N4,1986.
W1 WE635 0193-9459
W03710000 JTC: XNZ

TITLE CHANGES, OCTOBER 1986

IM AIDS RESEARCH AND THERAPY

AIDS RES THER
4,1987--
MARY ANN LIEBERT
NEW YORK UNITED STATES
CONTINUES: AIDS RESEARCH.
ON ORDER 0889-2229
SR0057967 JTC: ART

IM CLEVELAND CLINIC JOURNAL OF MEDICINE

CLEVE CLIN J MED
54N1,JAN/FEB 1987--
CLEVELAND CLINIC FOUNDATION
CLEVELAND OH UNITED STATES
CONTINUES: CLEVELAND CLINIC QUARTERLY.
ON ORDER
SR0058283 JTC: DBN

IM GENOME
 GENOME
 29N1,1987--
 NATIONAL RESEARCH COUNCIL OF CANADA
 OTTAWA CANADA
 CONTINUES: CANADIAN JOURNAL OF GENETICS
 AND CYTOLOGY.
 ON ORDER 0831-2796
 SR0058053 JTC: FNP

IM JOURNAL OF THE AMERICAN ACADEMY OF CHILD
 AND ADOLESCENT PSYCHIATRY
 J AM ACAD CHILD ADOLESC PSYCHIATRY
 26N1,JAN 1987--
 WILLIAMS AND WILKINS
 BALTIMORE MD UNITED STATES
 CONTINUES: JOURNAL OF THE AMERICAN ACADEMY
 OF CHILD PSYCHIATRY.
 ON ORDER 0890-8567
 SR0058220 JTC: HGS

IM JOURNAL OF ULTRASTRUCTURE AND MOLECULAR
 STRUCTURE RESEARCH
 J ULTRASTRUCT MOL STRUCT RES
 94N1,JAN 1986--
 ACADEMIC PRESS
 SAN DIEGO CA UNITED STATES
 CONTINUES: JOURNAL OF ULTRASTRUCTURE
 RESEARCH.
 W1 J0968CK 0889-1605
 SR0058289 JTC: IJK

INI NURSING RSA VERPLEGING
 NURS RSA VERPLEGING
 IN1,JAN 1986--
 JUTA
 KEN'WYN SOUTH AFRICA
 CONTINUES: CURATIONIS.
 INDEXING BEGAN WITH VIN1,1986.
 ON ORDER 0258-1547
 SR0055772 JTC: NRV

IM PARASITOLOGY RESEARCH
 PARASITOL RES
 73N1,1987--
 SPRINGER
 BERLIN GERMANY, WEST
 CONTINUES: ZEITSCHRIFT FUR PARASITENKUNDE.
 ON ORDER
 SR0058221 JTC: PRE

IM PHARMACOLOGY AND TOXICOLOGY
 PHARMACOL TOXICOL
 60,1987--
 MUNKSGAARD
 COPENHAGEN DENMARK
 CONTINUES: ACTA PHARMACOLOGICA ET
 TOXICOLOGICA.
 ON ORDER
 SR0058219 JTC: PHT

TITLES NO LONGER INDEXED AS OF OCTOBER 1986

IM DAKAR MEDICAL
 DAKAR MED
 24,1979-29N1,1984
 SOCIETE MEDICALE D AFRIQUE NOIRE DE LANGUE
 FRANCAISE
 DAKAR SENEGAL
 CONTINUES BULLETIN DE LA SOCIETE MEDICALE D
 AFRIQUE NOIRE DE LANGUE FRANCAISE. BULLETIN
 OF THE SOCIETE MEDICALE D AFRIQUE NOIRE DE
 LANGUE FRANCAISE.
 INDEXING BEGAN WITH V.24,N.1,1979
 W1 DA243M 0049-1101
 D00291000 JTC: EAM

IM TRANSACTIONS OF THE NEW YORK ACADEMY OF
 SCIENCES
 TRANS NY ACAD SCI
 1,1881-16,1897;SER 2:1,1939-41,1983?
 NEW YORK ACADEMY OF SCIENCES
 NEW YORK UNITED STATES
 W1 TR226T 0028-7113
 T17480000 JTC: W8Y

IM SURGICAL GASTROENTEROLOGY
 SURG GASTROENTEROL
 IN1,1982-3N1-2,1984
 MASSON PUBLISHING USA
 NEW YORK UNITED STATES
 INDEXING BEGAN WITH V3N1,1984.
 W1 SU765K 0730-2681
 S48525000 JTC: SUR

IM VITAL AND HEALTH STATISTICS. SERIES 3,
 ANALYTICAL AND EPIDEMIOLOGICAL STUDIES
 VITAL HEALTH STAT [3]
 21,JUN 1983-22,1984?
 U.S. DEPT OF HEALTH AND HUMAN SERVICES,
 PUBLIC HEALTH SERVICE, NATIONAL CENTER FOR
 HEALTH STATISTICS
 HYATTSVILLE MD UNITED STATES
 CONTINUES: VITAL AND HEALTH STATISTICS.
 SERIES 3, ANALYTICAL STUDIES. NO. 22,
 PUBLISHED OUT OF CHRONOLOGICAL ORDER IN
 MAR. 1982, HAS SECTION TITLE: ANALYTICAL
 STUDIES.
 W2 A N148VC
 V08765000 JTC: VH3

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES,
OCTOBER 1986

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH and POPLINE are listed in the "INDEXED TITLES UPDATE" section. Please include the NLM call number on interlibrary loan requests. Of course, NLM

cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, please contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ADAPTED PHYSICAL ACTIVITY QUARTERLY
1,1984--
HUMAN KINETICS PUBLISHERS
CHAMPAIGN IL UNITED STATES
ON ORDER
SR0058124
HUMAN KINETICS PUBLISHERS,BOX
5076,CHAMPAIGN IL 61820

ADOLESCENT AND PEDIATRIC GYNECOLOGY
1,1988--
SPRINGER VERLAG
NEW YORK UNITED STATES
OFFICIAL JOURNAL OF THE NORTH AMERICAN
SOCIETY FOR PEDIATRIC AND ADOLESCENT
GYNECOLOGY.
ON ORDER
SR0058228

ADVANCES IN PEDIATRIC SPORT SCIENCE
1,1984--
HUMAN KINETICS PUBLISHERS
CHAMPAIGN IL UNITED STATES
ON ORDER
SR0058125
HUMAN KINETICS PUBLISHERS,BOX
5076,CHAMPAIGN IL 61820

ADVANCES IN PSYCHOPHYSIOLOGY
1,1985--
JAI PRESS
GREENWICH CT UNITED STATES
IN PROCESS
SR0058145
JAI PRESS INC.,36 SHERWOOD
PLACE,GREENWICH CT 06836

ANGIOLOGISCHE SCHRIFTEN
1,1986--
PERIMED
ERLAGEN GERMANY, WEST
IN PROCESS
SR0058248

APPLIED COGNITIVE PSYCHOLOGY
1,1987--
WILEY
CHICHESTER ENGLAND
CONTINUES: HUMAN LEARNING, WHICH IS NOT IN
THE NLM COLLECTION.
ON ORDER
SR0058294 \$98.00

AUSTRALIAN PRIVATE DOCTOR
1N1,NOV/DEC 1985--
PRIVATE DOCTORS OF AUSTRALIA
WENTWORTHVILLE, AUSTRALIA
NSW
ON ORDER
SR0058159

BILDGEBENDE VERFAHREN IN DER NEURORADIOLOGIE
1,1986--
GEORG THIEME
STUTTART GERMANY, WEST
IN PROCESS
SR0058129
GEORG THIEME VERLAG,RUDIGERSTRASSE
14,D-7000 STUTTART 30,WEST GERMANY

BLOOD REVIEWS
1N1,MAR 1987--
LONGMAN GROUP
HARLOW ESSEX ENGLAND
ON ORDER
SR0058216 \$90.00
LONGMAN GROUP LTD.,4TH AVENUE -
PENNACLES,HARLOW ESSEX CM19
5AA,HARLOW,ENGLAND

COMMUNITY PSYCHIATRIST
1N1,MAY 1985--
AMERICAN ASSOCIATION OF COMMUNITY MENTAL
HEALTH CENTER PSYCHIATRISTS
NEW YORK UNITED STATES
NEWSLETTER OF THE AMERICAN ASSOCIATION OF
COMMUNITY MENTAL HEALTH CENTER
PSYCHIATRISTS.
IN PROCESS
SR0058075

CURRENT ORTHOPAEDICS
1,1987--
LONGMAN GROUP LTD
BIRMINGHAM AL UNITED STATES
ON ORDER
SR0058213 \$95.00
LONGMAN GROUP LTD., P.O. BOX
11318,BIRMINGHAM AL 35202

EUROPEAN JOURNAL OF PERSONALITY
1,1987--
WILEY
CHICHESTER ENGLAND
JOURNAL OF THE EUROPEAN ASSOCIATION OF
PERSONALITY PSYCHOLOGY.
ON ORDER
SR0058295 \$90.00

EUROPEAN JOURNAL OF PLASTIC SURGERY
9N1,1986--
SPRINGER INTERNATIONAL
BERLIN GERMANY, WEST
CONTINUES: CHIRURGIA PLASTICA.
IN PROCESS
SR0058150 \$95.00

FIBRINOLYSIS
1,1987--
LONGMAN GROUP
BIRMINGHAM AL UNITED STATES
ON ORDER
SR0058215 \$115.00
LONGMAN GROUP LTD., P.O. BOX
11318,BIRMINGHAM AL 35202

GENES AND DEVELOPMENT
1N1,APR 1987--
COLD SPRING HARBOR LABORATORY
COLD SPRING UNITED STATES
HARBOR NY
ON ORDER
SR0058232 \$195.00
COLD SPRING HARBOR LABORATORY,FULFILLMENT
DEPT,COLD SPRING HARBOR NY 11724

GENOMICS
1N1,JUL 1987--
ACADEMIC PRESS
ORLANDO FL UNITED STATES
ON ORDER
SR0058184

HAFIZ-I SIHHAT
SHAIKH NIYAZ AHMAD
LAHAUR PAKISTAN
ON ORDER
SR0058120

HEART AND CIRCULATION
1,1986--
PHI-VERLAG
FRANKFURT/MAIN GERMANY, WEST
ON ORDER
SR0058229

HONG KONG JOURNAL OF PAEDIATRICS
1N1, 1984?--
HONG KONG PAEDIATRIC SOCIETY
HONG KONG HONG KONG
OFFICIAL PUBLICATION OF THE HONG KONG
PAEDIATRIC SOCIETY.
ON ORDER
SR0058157
HONG KONG JOURNAL OF PAEDIATRICS,P.O.
BOX 864,G.P.O. HONG KONG

JOURNAL OF BRITISH ASSOCIATION OF
PSYCHOPHARMACOLOGY
1,1987--
OXFORD UNIVERSITY PRESS
OXFORD ENGLAND
ON ORDER
SR0058214 \$90.00
OXFORD UNIVERSITY PRESS,WALTON
STREET,OXFORD OX2 6D,ENGLAND

JOURNAL OF CHEMICAL DEPENDENCY TREATMENT
1N1,SPRING 1987--
HAWORTH PRESS
NEW YORK UNITED STATES
ON ORDER
SR0058246 \$42.00
HAWORTH PRESS INC.,28 EAST 22 STREET,NEW
YORK NY 10010

JOURNAL OF HEALTH CARE CHAPLAINCY
1N1,1987--
HAWORTH PRESS
NEW YORK UNITED STATES
ON ORDER
SR0058245 \$42.00
HAWORTH PRESS,28 WEST 22 STREET,NEW YORK
NY 10010

JOURNAL OF NATIONAL BLACK NURSES ASSOCIATION
1N1,SPRING 1986--
NATIONAL BLACK NURSES ASSOCIATION
BOSTON UNITED STATES
ON ORDER
SR0058198
SADAKO HOLMES,EXECUTIVE
DIRECTOR,NATIONAL BLACK NURSES
ASSOCIATION,P.O. BOX 18358,BOSTON MA
02118

JOURNAL OF PASTORAL PSYCHOTHERAPY
1N1,SPRING 1987--
HAWORTH PRESS
NEW YORK UNITED STATES
ON ORDER
SR0058243 \$32.00
HAWORTH PRESS INC.,28 EAST 22 STREET,NEW
YORK NY 10010

JOURNAL OF POSTGRADUATE MEDICAL INSTITUTE
1N1,1986--
POSTGRADUATE MEDICAL INSTITUTE
PESHAWAR PAKISTAN
IN PROCESS
SR0058093
DEPARTMENT OF PUBLICATION, POSTGRADUATE
MEDICAL INSTITUTE,PESHAWAR PAKISTAN

JOURNAL OF PSYCHOPHYSIOLOGY
 1,1987--
 OXFORD UNIVERSITY PRESS
 OXFORD ENGLAND
 ON ORDER
 SR0058209 \$90.00
 OXFORD UNIVERSITY PRESS,WALTON
 STREET,OXFORD OX2 6DP,ENGLAND

JOURNAL OF SPORTS MANAGEMENT
 1,1987--
 HUMAN KINETICS
 CHAMPAIGN IL UNITED STATES
 ON ORDER
 SR0058210 \$28.00
 HUMAN KINETICS,615 WEST KIRBY,BOX
 5076,CHAMPAIGN IL 61820

KOREAN JOURNAL OF INTERNAL MEDICINE
 1N1,JAN 1986--
 KOREAN ASSOCIATION OF INTERNAL MEDICINE
 SEOUL KOREA, SOUTH
 ON ORDER
 SR0058155
 THE KOREAN JOURNAL OF INTERNAL
 MEDICINE,THE KOREAN MEDICAL ASSOCIATION
 BUILDING,302-75,DONGBU ICHON DONG,YONG
 SAN KU,P.O. BOX 2062,SEOUL KOREA

LASER IN MEDICINE AND SURGERY
 1,1985--
 ERDMANN-BRENGER MEDIZINISCHER VERLAG
 MUNCHEN GERMANY, WEST
 FIRST TWO NUMBERS HAVE TITLE IN GERMAN:
 LASER IN DER MEDIZIN UND CHIRURGIE.
 JOURNAL FOR APPLICATION AND EXPLORATION OF
 LASERBEAM. ORGAN OF THE LASER ASSOCIATION
 OF NEUROLOGICAL SURGEONS OF EUROPE.
 ON ORDER
 SR0058114

MEDECINE ET HISTOIRE
 1986--
 SEGHERS
 PARIS FRANCE
 ON ORDER
 SR0058116
 SEGHERS,6 PL SAINT-SULPICE,75279 PARIS
 CEDEX 06,FRANCE

MODERN OCULAR PHARMACOLOGY
 3,1987--
 BENSALAM PA UNITED STATES
 CONTINUES: TOPICS IN OCULAR PHARMACOLOGY
 AND TOXICOLOGY.
 ON ORDER - TITLE CHANGE
 SR0058201

MOLECULAR ENDOCRINOLOGY
 1,1987--
 WILLIAMS AND WILKINS
 BALTIMORE UNITED STATES
 ON ORDER
 SR0058030 \$145.00

OBJECTIF SANTE
 1,1986--
 MALOINE
 PARIS FRANCE
 REVUE OMNIDISCIPLINAIRE DES MEDECINES
 NATURELLES ET ALLOPATHIQUES.
 ON CRDER
 SR0058117
 MALOINE,27 RUE DE L ECOLE-DE-MEDEGINE,PAR
 IS 75006,FRANCE

PEDIATRIC NEPHROLOGY
 1,1987--
 SPRINGER VERLAG
 BERLIN GERMANY, WEST
 JOURNAL OF THE INTERNATIONAL PEDIATRIC
 NEPHROLOGY ASSOCIATION.
 ON ORDER
 SR0058089 \$151.00

PRIMER SERIES FOR HEALTH CARE PROFESSIONALS
 1,1985--
 JOHN C.S. KEPNER ESQUIRE
 NEW YORK UNITED STATES
 IN PROCESS
 SR0058272
 JOHN C.S. KEPNER ESQUIRE,P.O. BOX
 1856,NEW YORK NY 10116

PSYCHOLOGIE IN DER BLAUE EULE
 1,1986--
 VERLAG DIE BLAUE EULE
 ESSEN GERMANY, WEST
 IN PROCESS
 SR0058271

SCANDINAVIAN JOURNAL OF CARING SCIENCE
 1,1987--
 ALMQUIST AND WIKSELL
 STOCKHOLM SWEDEN
 ON ORDER
 SR0058208 \$63.00

ULTRASCHALL IN KLINIK UND PRAXIS
 1,1986--
 SPRINGER-VERLAG
 BERLING GERMANY, WEST
 VOL 1 COMPLETE IN 2 NOS.
 ON ORDER
 SR0058090 \$69.00

UROLOGIA COLOMBIANA
 1N1,JUL 1986--
 EDITORIAL KELLY
 CARTAGENA COLOMBIA
 IN PROCESS
 SR0058183

**List of Organizations Temporarily Deleted
From The OHIC Subfile of DIRLINE**

| | |
|--|--------------------|
| Adrenal Metabolic Research Society of the Hypoglycemia Foundation | HR/0108 |
| American Group Psychotherapy Association | HR/0119 |
| American Hirschsprung's Disease Association | HR/2216 |
| American Leprosy Missions | HR/1646 |
| American Pediatric Society | HR/0835 |
| American Spasmodic Torticollis Association | HR/2224 |
| American Spice Trade Association | HR/1545 |
| Association for Glycogen Storage Diseases | HR/2228 |
| Calorie Control Council | HR/1137 |
| Center For Attitudinal Healing | HR/1757 |
| Compassionate Friends | HR/2077 |
| Ear Foundation | HR/2223 |
| Ehlers-Danlos National Foundation | HR/2220 |
| Georgia Division of Public Health | HR/0908 |
| Hysterectomy Educational Resources and Services Foundation | HR/2217 |
| Immune Deficiency Foundation | HR/2227 |
| International Academy of Preventive Medicine | HR/0937 |
| Kansas Department of Health and Environment | HR/2213 |
| Minnesota Department of Health | HR/2214 |
| National Abortion Rights Action League | HR/0491 |
| National Center for Health Statistics | HR/0031 |
| National Hydrocephalus Foundation | HR/2212 |
| National Paint and Coatings Association | HR/0983 |
| National Rehabilitation Association | HR/0428 |
| National Wellness Institute | HR/2218 |
| Nebraska Department of Health | HR/2219 |
| Nutrition Foundation | HR/0154 |
| Nutrition Today Society | HR/0644 |
| Osteogenesis Imperfecta--National Capitol Area PMS Access | HR/2215 HR/2211 |
| Sarcoidosis Family Aid and Research Foundation | HR/2229 |
| Sexaholics Anonymous | HR/1808 |
| Social Legislation Information Service | HR/0880 |
| Spinal Cord Society | HR/2106 |
| Texas Department of Health | HR/2221 |
| United Leukodystrophy Foundation | HR/2225 |

TECHNICAL BULLETIN
GRATEFUL MED Users
See page 16

ISSN 0146-3055
DECEMBER 1986
No. 212

TECHNICAL BULLETIN

Technical Bulletin

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Fifteenth Anniversary

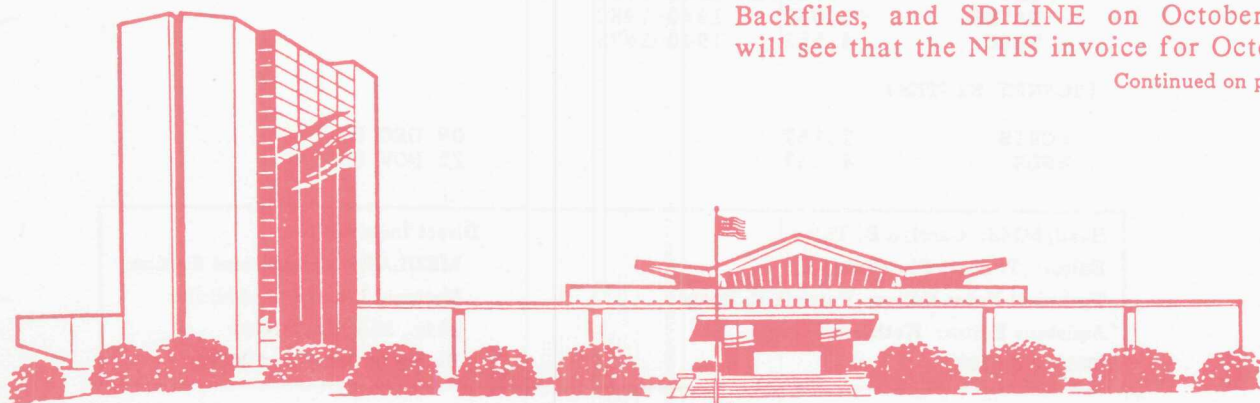
Sheldon Kotzin
Chief, Bibliographic Services Division, NLM

It was more than "business-as-usual" on October 27, 1986, as NLM and many of its International MEDLARS Centers and tape licensees celebrated the 15th Anniversary of MEDLINE with a free day of searching for users of MEDLINE, its Backfiles, and SDILINE. By early morning, the NLM computer reached its capacity of simultaneous users causing some disruption in service, but after adjustments were made, afternoon and evening use was steady at peak levels.

One fourth (about 2,000) of all MEDLARS codes accessed the MEDLARS system on October 27. Usage against the entire MEDLARS system totaled 1,860 connect hours, of which 1,630 non-billed hours were used to search MEDLINE, its Backfiles, and SDILINE. Total usage for the free day exceeded the previous record-high day by 600 hours.

Searchers who accessed MEDLINE, its Backfiles, and SDILINE on October 27, will see that the NTIS invoice for October

Continued on page 5.



NLM TECHNICAL BULLETIN DEC 86

| DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|-----------------|---------------|-------------------------------|-------------------|-------------------|
| (ELHILL SYSTEM) | | | | |
| AVLINE | 15,595 | THROUGH 1986 | 11 DEC 86 | |
| BIOETHICS | 21,602 | JAN 73-1986 | 06 DEC 86 | 8612(EM) |
| CANCERLIT | 557,877 | JAN 63-DEC 86 | 15 DEC 86 | 8612(EM) |
| CANCERPROJ | 10,183 | THROUGH 1986 | 05 JUL 86 | 8607(EM) |
| CATLINE | 610,709 | THROUGH 1986 | 11 DEC 86 | |
| CHEMLINE | 713,144 | | 06 DEC 86 | 8612(EM) |
| CLINPROT | 5,748 | | 26 NOV 86 | 8611(EM) |
| DIRLINE | 15,557 | | 21 OCT 86 | |
| HEALTH | 364,396 | JAN 75-JAN 87 | 15 DEC 86 | 8701(EM) |
| HISTLINE | 75,259 | | 06 DEC 86 | 8612(EM) |
| MEDLINE | 499,463 | JAN 85-JAN 87 | 15 DEC 86 | 8701(EM) |
| MED83 | 584,305 | JAN 83-DEC 84 | 15 DEC 86 | |
| MED80 | 804,744 | JAN 80-DEC 82 | 15 DEC 86 | |
| MED77 | 775,043 | JAN 77-DEC 79 | 15 DEC 86 | |
| MED75 | 642,612 | JAN 75-DEC 76 | 15 DEC 86 | |
| MED71 | 882,903 | JAN 71-DEC 74 | 15 DEC 86 | |
| MED66 | 954,368 | JAN 66-DEC 70 | 15 DEC 86 | |
| MESH VOC | 59,283 | 1987 | 15 DEC 86 | |
| NAME AUTH | 280,344 | | 05 DEC 86 | |
| POPLINE | 152,286 | 1970-NOV 86 | 08 NOV 86 | 8611(EM) |
| RTECS | 84,556 | THROUGH OCT 86 | 26 NOV 86 | |
| SDILINE | 25,486 | JAN 87 | 15 DEC 86 | 8701(EM) |
| SERLINE | 67,926 | 1986 | 01 NOV 86 | |
| TOXLINE | 880,908 | | 15 NOV 86 | 8611(EM) |
| CBAC | 480,221 | 1981-VOL 105(8,9) | | |
| TOXBIB | 191,717 | 1981-DEC 1986 | | |
| IPA (ASHP) | 40,478 | 1981-VOL 23(21) | | |
| BIOSIS | 49,194 | OCT 1986 | | |
| HEEP | 49,788 | 1981-VOL 14(8) | | |
| PESTAB | 1,536 | 1981 | | |
| EMIC | 12,899 | 1981-MAR 1986 | | |
| ETIC | 15,184 | 1981-NOV 1986 | | |
| TD3 | 25,965 | 1981-GRA&I 86 (18,19) | | |
| HMTc | 1,869 | 1981-APR 1986 | | |
| ILO | 5,076 | NOV 1986 | | |
| RPROJ/CRISP | 16,086 | FISCAL YEARS 1983, 1984, 1985 | | |
| ANEUPLOIDY | 3,593 | 1969-JUN 1986 | | |
| TOXBACK76 | 555,808 | | 27 AUG 84 | |
| CBAC | 298,383 | 1976-1980 | | |
| TOXBIB | 106,643 | 1976-1980 | | |
| IPA(ASHP) | 33,321 | 1976-1980 | | |
| HEEP | 63,796 | 1976-1980 | | |
| PESTAB | 14,757 | 1976-1980 | | |
| EMIC | 17,267 | 1976-1980 | | |
| ETIC | 11,970 | 1976-1980 | | |
| TD3 | 9,671 | 1976-1980 | | |
| TOXBACK65 | 598,424 | | 27 AUG 84 | |
| CBAC | 287,992 | 1965-1975 | | |
| TOXBIB | 155,387 | 1965-1975 | | |
| IPA(ASHP) | 33,876 | 1969-1975 | | |
| HEEP | 54,075 | 1970-1975 | | |
| HAPAB/PESTAB | 18,416 | 1968-1975 | | |
| EMIC | 19,554 | 1950-1975 | | |
| ETIC | 13,694 | 1950-1975 | | |
| TD3 | 839 | PRE-1965-1975 | | |
| HAYES | 10,039 | 1940-1968 | | |
| TMIC | 4,552 | 1940-1975 | | |
| (TOXNET SYSTEM) | | | | |
| CCRIS | 1,157 | | 09 DEC 86 | |
| HSDB | 4,142 | | 25 NOV 86 | |

Head, MMS: Carolyn B. Tilley
 Editor: T. Scott Plutchak
 Technical Notes Editor: Patricia E. Healy
 Assistant Editor: Kathleen Stenger
 (301) 496-6193

Direct Inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 Bldg., 38A, Rm. 4N421
 Bethesda, Maryland 20894

Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 that is considered most relevant to the item being discussed, e.g., (Manual 4.7.2). Users should keep in mind that the item may pertain to other sections of the Manual as well.

MARTIN LUTHER KING'S BIRTHDAY HOLIDAY SCHEDULE

The NLM computer will be up on a guaranteed basis on Monday, January 19, 1987, the day of the federal government observance of Martin Luther King's birthday. Non-prime rates will be in effect all day and the MEDLARS Management Service Desk will not be staffed. On Martin Luther King's actual birthday, Thursday, January 15, 1987, the NLM computer will be up and the MMS Service Desk staffed. Regular rates will be in effect all day. Please see the October 1986 *NLM Technical Bulletin*, Appendix C, for the complete 1987 holiday schedule.

TOXNET SPECIAL LOGOFF PROCEDURE

NLM will be collecting information on TOXNET usage during the period from January 5 through January 23, 1987. Upon exiting from TOXNET, users will be asked about their preceding search session. Although participation is voluntary, NLM strongly encourages searchers to cooperate. The information collected will be helpful to NLM in its continuing efforts to improve the performance and usefulness of TOXNET.

COMMENT COMMAND (Manual 1986, 4.9.2)

The COMMENT command prompts have been revised to be more user-friendly. The revised

wording, shown in the example below, became effective online on Monday, December 15, 1986.

SS 1 /C?
USER:
comment

PROG:
DOES YOUR COMMENT REQUIRE A
RESPONSE FROM NLM? (YES/NO)

USER:
y

PROG:
NAME & TELEPHONE NUMBER:

USER:
s. plutchak 301/496-3261

PROG:
ADDRESS?

USER:
114 Tayer Terrace

PROG:
CITY, STATE (PLEASE DO NOT
ABBREVIATE), AND ZIP-

USER:
rockland, maryland 20900

PROG:
CONTINUE YOUR COMMENT OR TYPE
THE WORD FINISHED.

USER:
i need to know if my modem will work with
grateful med

PROG:
CONTINUE YOUR COMMENT OR TYPE
THE WORD FINISHED.

USER:
finished

PROG:
SS 1 /C?
USER:

SIGNED ADVANCED TRAINING CLASS

The Advanced Online Services Training class to be held at NLM, April 27, 1987 to May 1, 1987, will be signed for the hearing-impaired. Any searcher who could benefit from this service should send a training application to the MEDLARS Management Section as soon as possible requesting this particular class. Please indicate on the form that you are hearing-impaired. For additional information, please contact MMS.

Reminder: Attendance at an Initial Online Training Class is a prerequisite for the advanced class.

DEMONSTRATION CODES POLICY; PDQ ACCESS ADDED

To assist searchers in publicizing MEDLARS search services at their institutions, the MEDLARS Management Section makes available a limited number of non-billed User ID codes/passwords for searchers to use when demonstrating the MEDLARS databases. These codes are called demonstration codes and may be requested for short demonstrations, inhouse staff orientations, etc., by calling the MMS Service Desk during business hours. Searchers requesting a demonstration code will be asked to provide some information about themselves and the upcoming demonstration, namely, their regular User ID code; name, address, and telephone number; purpose of the demonstration; the make-up of the audience (e.g., physicians, nurses, medical students); and the anticipated size of the audience. Searchers will be asked to call back to report on the demonstration and will be asked for the actual size of the audience on the day of the demonstration, the total connect time used, and the number of offline prints generated. *Demonstration codes may not be used for training of inhouse staff or other training-related activities.* (Non-billed codes are available for health professional training classes. For more information on these, see the February 1986 *NLM Technical Bulletin* p. 9-10.)

Previously, MMS demonstration codes permitted access to all MEDLARS databases except PDQ; PDQ demonstration codes had to be requested separately from the National Cancer Institute (NCI). Effective December 1, 1986, MMS demonstration codes now have access to PDQ. Therefore, when planning a demonstration of the PDQ database, it is no longer necessary to call NCI for a special PDQ demonstration code. A regular MMS demonstration code may be requested for this purpose. As with other demonstration code requests, searchers will be asked to provide information to MMS before and after the demonstration.

TOXNET POCKET CARD

Enclosed with this issue is the latest version of the TOXNET Pocket Card. Additional copies of this pocket card may be requested by writing to Specialized Information Services (SIS). Please include a self-addressed mailing label. No postage is necessary.

PDQ SEARCH REQUEST FORM

PDQ was designed to be user-friendly and therefore requires no prior search training. However, because it was developed for the physician searcher, it often requires specific knowledge of cancer medicine in order to make appropriate selections from the menus. Therefore, when searches are being executed by an intermediary, it is useful to have the physician requester available. If this cannot be arranged, NCI recommends that searchers first collect from the requester pertinent information which will likely be needed during the search. To assist searchers, NCI has developed the PDQ Search Request form which is included in this issue of the *NLM Technical Bulletin* as Appendix A. When using this form, please note the attached annotations.

Please access **FILE INFORM** and type **NEWS** to see the most recent news items online!

Fifteenth anniversary
Continued from page 1

reflects the free day of searching. To verify this, for each database take either the prime hours or the non-prime hours and multiply the number in the rates column times the number in the quantity column. The calculated total will be more than the total

shown on the invoice if that file was accessed on the free day and was either MEDLINE, one of its Backfiles, or SDILINE.

NLM wishes to thank all database licensees and International MEDLARS Centers who were able to join in the celebration by passing along the non-billed use to their searchers.

Ordinarily, we do not draw attention to achievements of specific members of our staff. However, the retirement of Yvonne B. Scott from the Medlars Management Section after 30 years of federal employment merits recognition.

Many of you know Yvonne personally, but all who search the MEDLARS database and use *Index Medicus* have benefitted from her knowledge and skills. Yvonne joined MMS when it was formed in 1971. While contributing in many ways during the past fifteen years, including a two-year stint as Section Head, her primary responsibility has been to serve as the Library's foremost expert in search strategy formulation and the production of *Index Medicus* and other recurring publications. This has required an outstanding knowledge of MeSH, and the MEDLARS photocomposition process as well as skill in communicating with subject experts to see that quality publications were prepared. Besides her ongoing tasks associated with *Index Medicus*, Yvonne worked on the creation and production of the *Hospital Literature Index*, the *Index to Dental Literature*, and the *International Nursing Index*. Her many friends throughout the world wish her well on her retirement.

Sheldon Kotzin, Chief, Bibliographic Services Division
Carolyn B. Tilley, Head, MEDLARS Management Section

Extended Subheadings

Thelma Charen
Senior Technical Adviser, Index Section, NLM

When I started indexing over 35 years ago we had so-called standard subheadings, natural subdivisions of organs, organisms, diseases, drugs, etc., which are today known as the subheadings assigned by MeSH by category.

In those days, too, we had permission to use any subheading with any main heading that could be married quietly and effectively and enjoyed a happy, sensible companionship.

I have been concerned for some time about the high-volume headings with only limited subheadings. This wrought a hardship for the user of *Index Medicus* in that he was confronted with literally hundreds of citations "up front", i.e., unbroken by subheadings.

In 1987, some MeSH subheadings are extended beyond their assigned categories. With more enthusiasm than originality I shall henceforth refer to them officially as "extended subheadings", defined as the use of selected subheadings extended beyond the usual application by MeSH programming.

For example, PREGNANCY (G8) appears in the *Cumulated Index Medicus V.26 1985* with 16 columns of citations under it. At approximately 30 citations per column, this gives 462 "up fronts" (i.e., without a subheading) as against 16 with /drug effects and 2 with /radiation effects -- the only subheadings permitted with Category G8 since subheadings were reintroduced in 1966.

In the same vein, INFANT, NEWBORN shows 8 1/2 columns unbroken, without subheadings (approximately 255 citations), as against 23 citations under INFANT, NEWBORN/psychology -- permitted to Category M in which INFANT, NEWBORN lies.

The two headings PREGNANCY and

INFANT, NEWBORN will benefit greatly in *Index Medicus* by the breakdown by selected subheadings. There will be no difficulty in remembering what new sort of assignment has been made if one thinks of PREGNANCY as a kind of "dis-ease" -- for it is that: it will now take a great many subheadings which have for many years been used with Category C (Diseases). Too, there will be no trouble if one thinks of INFANT, NEWBORN as a little animal -- for it is that: it will now take a great many subheadings which have for many years been used with Category B2 (Vertebrates).

Here is the PREGNANCY array of permitted subheadings for 1987:

/blood
/cerebrospinal fluid
/drug effects
/immunology
/metabolism
/physiology
/psychology
/radiation effects
/urine

There will be no change or new policy in the use or meaning or indexing practice with regard to the subheadings in these exciting new pairings. Below are samples of 1987 and 1986 indexing:

"Peripheral blood levels of progesterone in human pregnancy"

1987: PROGESTERONE/blood
PREGNANCY/blood

1986: PROGESTERONE/blood
PREGNANCY

"Kidney function in normal pregnancy"

1987: KIDNEY/physiol
PREGNANCY/physiol

1986: KIDNEY/physiol
PREGNANCY

"Effect of pregnancy on maternal lipid metabolism"

1987: LIPIDS/metab
PREGNANCY/metab

1986: LIPIDS/metab
PREGNANCY

Here is the INFANT, NEWBORN array of permitted subheadings for 1987:

/blood
/cerebrospinal fluid
/growth
/immunology
/metabolism
/microbiology
/parasitology
/physiology
/psychology
/urine

The extended subheadings above will be used for PREGNANCY and INFANT, NEWBORN when they are to be printed in *Index Medicus* or, as searchers put it, "the central point of the article." Indexers will not use them when PREGNANCY and INFANT, NEWBORN are picked up in routine indexing as Check Tags: there is no change of policy here -- Check Tags remain inviolate.

Remember, though, that when we index a

non-Check Tag concept for depth indexing, we shall apply the subheading whether the term is IM or NIM. In other words, the effect of a drug on BLOOD PROTEINS will go in a BLOOD PROTEINS/*drug effects (i.e., IM); the effect of a drug on the liver, with a section on the effect on blood proteins will go in as LIVER/*drug effects (IM) + BLOOD PROTEINS/drug eff (NIM).

Examine the Introduction to the *Medical Subject Headings -- Annotated Alphabetic List, 1987*. In all discussions of subheadings with permitted categories there will be a long series of tree numbers for the specific headings within a tree to which extended subheadings apply. Extended subheadings appear in the annotation under all applicable Main Headings.

I have given on the following pages two displays: one showing extended subheadings by category, the other, an alphabetization of the Main Headings with the extensions.

Anyone with questions about the use of extended subheadings should get in touch with the MEDLARS Management Section which will direct all puzzlements to Index Section.

Other uses of extended subheadings to large-volume terms are being considered. Send suggestions to the MeSH Section, NLM.

NEW SUBHEADING ASSIGNMENTS

Here is the lineup of new assignments for old subheadings to old main headings. The main headings are grouped by category and the subheadings are shown in the usual form given in annotations.

Category C

ASCITIC FLUID

now permitted: /anal /cytol

CALCULI
 BLADDER CALCULI
 CHOLELITHIASIS
 COMMON BILE DUCT
 CALCULI
 KIDNEY CALCULI
 SALIVARY DUCT CALCULI
 URETERAL CALCULI
 URINARY CALCULI

now permitted: /anal /ultrastruct

Category D13

BLOOD PROTEINS & all
 indentions

now permitted: /drug eff

DNA & all indentions

now permitted: /drug eff /ultrastruct

RNA & all indentions

now permitted: /drug eff /ultrastruct

Category F1

FOOD HABITS
 ALCOHOL DRINKING }

now permitted: /drug eff /ethnol
 /physiol /psychol /rad eff

Category G3

DISEASE OUTBREAKS now permitted: /econ /hist /vet
 DISEASE RESERVOIRS now permitted: only /class /vet

Category G4

PIGMENTATION)
 EYE COLOR) now permitted: /genet
 HAIR COLOR)
 SKIN PIGMENTATION)

Category G7

AGING now permitted: /blood-csf-urine
 /drug eff /ethnol /genet /immunol
 /metab /pathol /physiol /psychol
 /rad eff

Category G8

PREGNANCY
 PREGNANCY, PROLONGED)

 LABOR)
 LABOR ONSET)
 LABOR STAGE, FIRST) now permitted: /blood-csf-urine
 LABOR STAGE, SECOND) /drug eff /immunol /metab /physiol
 LABOR STAGE, THIRD) /psychol /rad eff

 PUERPERIUM
 LACTATION
 LACTATION, PROLONGED)

Category G8
(contd)

PREGNANCY, ANIMAL
ANESTRUS
DIESTRUS
ESTRUS
METESTRUS
PROESTRUS

now permitted: /blood-csf-urine
/drug eff /immunol /metab /physiol
/rad eff

PUBERTY
MENARCHE
CLIMACTERIC
MENOPAUSE
MENOPAUSE, PRE-
MATURE

now permitted: /blood-csf-urine
/drug eff /ethnol /genet /immunol
/metab /physiol /psychol /rad eff

Category G12

DRUG RESISTANCE
DRUG RESISTANCE,
MICROBIAL
INSECTICIDE RESIST-
ANCE
INSULIN RESISTANCE
PENICILLIN RESIST-
ANCE
R FACTORS

only /genet /rad eff
only /genet /rad eff
only /genet /rad eff
only /drug eff /genet /rad eff
only /drug eff /genet /rad eff
only /drug eff /genet /rad eff

Category M

INFANT, NEWBORN
INFANT, LOW BIRTH
WEIGHT
INFANT, POSTMATURE
INFANT, PREMATURE
INFANT, SMALL FOR
GESTATIONAL AGE

now permitted: /blood-csf-urine
/growth /immunol /metab /microbiol
/parasitol /physiol /psychol

EXTENDED SUBHEADINGS

Here is a list of extended subheadings and the main headings with which they may be used in 1987.

/analysis

ASCITIC FLUID
CALCULI & all specifics

AGING
INFANT, NEWBORN & all indentions
PREGNANCY

PREGNANCY, PROLONGED

LABOR

LABOR ONSET

LABOR STAGE, FIRST

LABOR STAGE, SECOND

LABOR STAGE, THIRD

PUERPERIUM

LACTATION

LACTATION, PROLONGED

PREGNANCY, ANIMAL

ESTRUS

ANESTRUS

DIESTRUS

METESTRUS

PROESTRUS

PUBERTY

MENARCHE

CLIMACTERIC

MENOPAUSE

MENOPAUSE, PREMATURE

/blood-csf-urine

/immunology

/metabolism

/physiology

/cytology

ASCITIC FLUID

/drug effects

BLOOD PROTEINS & all indentions

DNA

RNA

/econ

DISEASE OUTBREAKS

/ethnology

AGING

ALCOHOL DRINKING

FOOD HABITS

/genetics

AGING
 PUBERTY
 MENARCHE
 CLIMACTERIC
 MENOPAUSE
 MENOPAUSE, PREMATURE
 DRUG RESISTANCE & all indentions
 PIGMENTATION & all indentions

/growth & development

INFANT, NEWBORN & all indentions

/microbiology

INFANT, NEWBORN & all indentions

/parasitology

INFANT, NEEBORN & all indentions

/pathology

AGING

/psychology

AGING
 PREGNANCY as on preceding page
 PUERPERIUM as on preceding page
 PUBERTY as on preceding page
 CLIMACTERIC as on preceding page
 INFANT, NEWBORN & all indentions

ALCOHOL DRINKING
 FOOD HABITS

/ultrastructure

CALCULI & all specifics
 DNA
 RNA

/veterinary

DISEASE OUTBREAKS
 DISEASE RESERVOIRS

Expanded Entry Vocabulary For 1987 MeSH

Peri Schuyler
Bibliographic Services Division, NLM

The entry vocabulary for MeSH has been expanded in two ways for 1987:

1. Singular versions of plural headings and plural versions of singular headings have been created.
2. Direct-order versions for inverted headings and inverted-order versions for direct-order headings have been created.

These additional entry points have been generated as non-print entry terms (EN); that is, all will be searchable online, but will not show up as *see* references in the printed *MeSH* or *Index Medicus*. Using the heading ADENOMA, CHROMOPHOBE as an example, the array below illustrates the various permutations that are now searchable:

ADENOMA, CHROMOPHOBE [*original term*]
ADENOMAS, CHROMOPHOBE
CHROMOPHOBE ADENOMA
CHROMOPHOBE ADENOMAS

While the majority of headings have been included in the expansion, some groups have been excluded. Many are Latin genus/species names, which are not meant to be converted (e.g., *ESCHERICHIA COLI*, *ENTAMOEBAS HISTOLYTICA*); others were omitted because of processing limitations or because the

resulting conversion might have been confusing. No changes were made to the following groups of terms:

1. Category Z geographical headings;
2. NON-MESH and other headings ending with a parenthetical qualifier, e.g., BODY REGIONS (NON MESH), DISCRIMINATION (PSYCHOLOGY), TRANSLOCATION (GENETICS);
3. All headings in Category B1.500 (HELMINTHS) and B1.841 (PROTOZOA);
4. Any heading exclusively in Category B3 (BACTERIA), Category B5 (ALGAE AND FUNGI), or Category B6 (PLANTS);
5. Category D chemical terms were given direct/inverted expansions only -- no singular/plural conversions were made.

Since these changes were made using an algorithm, and not all terms could be correctly categorized to fit a set of rules, some downright silly entries have been generated, like FOOTS and TOOTHS. These will be deleted by MeSH staff as time permits, but as they will not show up in print, and do not cause any harm, no additional programming was requested to try and accommodate the entire range of possible permutations.

It is hoped that the expanded entry vocabulary will make it easier for searchers, especially those less familiar with MeSH terminology, to use MeSH without the necessity for remembering the exact form of the headings.

TELENET/TYMNET Toll-Free Customer Service Numbers

Normally, NLM requests that all data communications problems experienced on the TELENET or TYMNET communications networks be reported directly to the MEDLARS Management Section. In this way, NLM is able to monitor the service received by MEDLARS users and to report and research problems on behalf of our users with TELENET/TYMNET.

However, the NLM and TOXNET computers are now available for searching virtually 24 hours a day, seven days a week, and the MMS staff is not always available to assist with telecommunications problems during early morning, evening or weekend hours. Therefore, the 800 toll-free numbers for both networks are being published here so that searchers will have recourse to assistance during those hours outside of the regular MMS Service Desk times.

Here are suggestions for obtaining telecommunications assistance:

If the problem occurs when the MEDLARS Management Service Desk is staffed (currently, Monday-Friday 8:30 am - 5:00 pm Eastern Time), call the MMS Service Desk for assistance.

(800)638-8480 (toll-free)
or
(301)496-6193

If the problem occurs when the MEDLARS Management Service Desk is not staffed, call the appropriate network (either TELENET or TYMNET) directly for assistance. The toll-free numbers are:

TELENET: (800)336-0437
(All states except Alaska and Hawaii; Alaska users AlaskaNet at (907)264-7383; Hawaii users call TELENET direct at (703)689-6400)

TYMNET: (800)336-0149
(According to TYMNET this number operates in all states)

When you reach NLM, TELENET or TYMNET, be prepared to provide the following information:

1) *The number you dialed.* You may be asked for the telephone number dialed to get access to the NLM or TOXNET computers. If an automatic dialer is used when accessing, the local telephone number for TELENET/TYMNET can generally be found by checking the list of "Telephone Numbers For TYMNET, TELENET and Direct Dial Access to the NLM Computer" published periodically with the *NLM Technical Bulletin*. (The last list was published with the October 1986 *NLM Technical Bulletin*.) If there is more than one TELENET/TYMNET telephone number for your area and an automatic dialer is used for logging into the NLM or TOXNET computers, record the telephone numbers that have been stored on your terminal should a communication problem need to be reported. When reporting a telephone number, please include the area code with the telephone number and the city and state of origin.

2) *The node/port you are on.* The node/port number is sent to the terminal immediately after the connection to the network is made. It represents the node/port to which your call has been connected.

When accessing TELENET, the node/port number is sent to the terminal after the two initial carriage returns are sent by the searcher to TELENET, e.g.,

```
<CR> <CR> (Sent by searcher)
TELENET (Sent by TELENET)
202 17j (Node/port number sent
to searcher by
TELENET)
```

When accessing TYMNET, the node/port number is sent to the terminal after TYMNET has sent the message to the searcher, "Please type your terminal identifier." (Remember, this message will appear as a line of garbage at terminal speeds higher than 300 baud.) An example of a

TYMNET node/port number is:

Please type your terminal identifier:
 (Searcher enters terminal identifier with
 no carriage return)
 -2544-105-
 (This is the node/port number sent to
 searcher's terminal by TYMNET)

3) *An exact description of the problem you are having and/or the message being received from the network.* Being able to provide the network representative with full details will expedite the resolution of the telecommunications problem.

If the telecommunications problem cannot be satisfactorily resolved, please call the MEDLARS Management Service Desk during

business hours. Every effort will be made to effect a solution. (Messages may also be left on the MMS 800 number recorder if it is outside of MMS hours of operation) Problems of a recurring nature should be reported to MMS for discussion with appropriate NLM and/or TYMNET/TELENET staff. For further information on TELENET/TYMNET access procedures and messages, please consult the *Online Services Reference Manual, 1986*. The relevant sections are:

- TELENET Access Procedures
Section 3.5.3.1
- TYMNET Access Procedures
Section 3.5.2.1
- TELENET Messages
Section 3.5.3.3
- TYMNET Messages
Section 3.5.2.3



[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated.]

I would like to search for citations published in the American Journal of Gastroenterology. When I press the HOME key at the journal abbreviation line on the MEDLINE input screen, I don't see a journal abbreviation for this title. Is there a way that I can search for citations from this journal in MEDLINE?

To search for citations from the *American Journal of Gastroenterology* using GRATEFUL MED, you need to find the Journal Title Abbreviation (TA). It is Am J Gastroenterol. This may then be typed in on the journal abbreviation line of the MEDLINE input screen thus limiting your search to only citations from this journal.

Information on journal titles can be found in several publications and online files. These are described below.

1. When you press the HOME key at the JOURNAL ABBREVIATION line, GRATEFUL MED displays the list of journal titles and Journal Title Abbreviations found in *Abridged Index Medicus* (AIM). You may type in any one of the listed journal abbreviations, or type in 'AIM' to limit your search to all of the AIM journals. AIM is a publication which contains citations from approximately 117 English-language clinical journals. It was designed principally for use by individual practitioners and the libraries of small hospitals and clinics. On those

occasions when you are interested in literature that is not contained in the *Abridged Index Medicus* journals, you may turn to either the full *Index Medicus* or to the online MEDLINE file. MEDLINE contains citations from over 3,200 journal titles. These include the AIM journals, the journals indexed for *Index Medicus*, and also approximately 550 other journal titles in such areas as nursing and dentistry.

2. The *List of Serials Indexed for Online Users* (LSIOU) contains a listing of all journal titles and journal abbreviations for MEDLINE. This publication is designed to provide complete bibliographic information on journals cited in MEDLINE (and its Backfiles), HEALTH PLANNING & ADMINISTRATION, and POPLINE. It contains information on all journals currently indexed as well as those journals which are no longer indexed for these files. It is arranged alphabetically by title abbreviation, followed by full title. The LSIOU is an annual publication released every April and is available from NTIS. The order number is PB86-148418/GBB and the cost is \$12.00 for the 1986 edition.

3. Another publication which contains information on journals is the *List of Journals Indexed in Index Medicus* (LJI). This publication contains only those journals which are currently indexed for *Index Medicus*. The journals are listed in four sections:

- alphabetic listing by abbreviated title, followed by full title;
- alphabetic listing by full title, followed by abbreviated title;
- alphabetic listing by subject field; and
- alphabetic listing by country of origin.

The LJI is an annual publication released every January and is available from GPO. The order number is S/N 717-100-00003-4 and the cost is \$10.00 for the 1987 edition.

4. The online SERLINE file is the journal authority file for journal titles in the NLM collection and/or indexed for MEDLINE,

HEALTH, and POPLINE. The LSIU and LJI are produced from SERLINE. To access SERLINE using GRATEFUL MED, choose option 3, direct access, from the ACTION screen and type in the command FILE SERLINE. Then do a Text Word (TW) search for the journal title in which you are interested. PRINT the results. Use the abbreviation found in the TA (Title Abbreviation) field on the JOURNAL ABBREVIATION line in the GRATEFUL MED MEDLINE INPUT Screen.

At: SS 1 /C?
USER:

Type: file serline (CR)

Once logged into file SERLINE:

At: SS 1 /C?
USER:

Type: (tw) american and journal and gastroenterology

PROG:
SS (1) PSTG (2)

At: SS 2 /C?
USER:

Type: print ti, ta

PROG:

1
TI - AMERICAN JOURNAL
OF
GASTROENTEROLOGY
TA - Am J Gastroenterol

2
TI - AMERICAN JOURNAL
OF PROCTOLOGY,
GASTROENTEROLOGY
AND COLON AND
RECTAL SURGERY
TA - Am J Proctol
Gastroenterol Colon
Rectal Surg

At: SS 2 /C?
USER:

Type: stop y

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p. 3
TELENET/TYMNET TOLL-FREE
CUSTOMER SERVICE NUMBERS, p. 14

Health Planning & Administration: Secondary Source ID (SI) Field

The Secondary Source ID (SI) field is being redesigned to be more uniform with other MEDLARS databases, and, as a consequence, more useful as a record identifier.

The format will resemble that used for CANCERLIT. The alphabetic characters will still denote the source of the record and will now be followed by a slash and an eight-digit string.

In the case of MEDLINE-derived records, the numeric string will correspond to the Unique Identifier (UI) and can, therefore, be used for DOCLINE orders.

For example:

SI - MED/86032975

This means that HEALTH printouts can be used for DOCLINE input as long as the SI field on the citation needed through interlibrary loan contains the acronym MED.

In the case of records derived from the American Hospital Association, the numeric string will also correspond to the UI. However, a UI from an AHA record cannot be used for DOCLINE orders because

DOCLINE only verifies UI's in MEDLINE and its Backfiles and CATLINE; a UI from an AHA record would, therefore, be rejected in DOCLINE.

In the case of records that also carry an additional SI indicator for the Association of American Medical Colleges, there will be no numeric string in this occurrence following the alphabetic source indicator of AAMC. This is because the value AAMC never appears alone on a record, but rather as a second occurrence of the SI field. The UI will be found in the first occurrence.

For example:

SI - MED/80011463
SI - AAMC

In the case of records derived from the National Health Planning Information Center (NHPIC), the value NP will still be followed by the six-digit string (a NHPIC numbering scheme) that has always been a part of the field for NP records.

For example:

SI - NP/023167

The Secondary Source ID field in the HEALTH file will be searchable using: 1) the prefix (MED, AHA, AAMC, NP) alone or qualified (SI) as before, or 2) the entire prefix/number string alone or qualified by SI.

Monthly Search Hint:

Retraction Of Publication and Errata

T. Scott Plutchak
Index Section, NLM

The medical literature is not writ in stone. Not only can new discoveries make last month's publications out of date, sometimes the publications themselves contain errors, mistakes or inaccuracies. The National Library of Medicine is determined to make MEDLINE and *Index Medicus* reflect these changes as quickly as possible. Therefore, as notices of these appear in the literature, the MEDLINE records are modified in order to account for them.

There are two broad classes to be considered here: Retraction of Publication and Errata.

Retraction of Publication

The MeSH Heading RETRACTION OF PUBLICATION was added in 1984. The use of this heading is described in the *MEDLARS Indexing Manual* Section 33.16:

"An editor sometimes publishes a statement retracting an article he published previously. A retraction may refer to an entire article or to a portion thereof. Such retractions will be indexed under RETRACTION OF PUBLICATION (IM) provided the retraction is written by one or more authors of the original paper or by the editor of the journal in which the retracted article was published." The only heading that will appear on citations retracting articles will be RETRACTION OF PUBLICATION; no changes are made to the headings assigned to the retracted articles.

Once such a retraction is identified, Quality Control staff in the Index Section go into MEDLINE, or its Backfiles, to locate the original citation and modify the title in such a way as to direct the searcher to the

retraction. Figure 1 shows examples of a retraction citation and the modified citation of the article to which it refers. The "retracted by..." statement appended to the original title enables the searcher to readily locate the retraction to determine its bearing on the original publication.

Errata

The other category to be considered here is Errata -- errors in the printing of the article as opposed to errors in the work itself. Beginning with the 1987 indexing year, announcements of these items will also be reflected in MEDLINE. The *MEDLARS Indexing Manual* states, "Errors in articles will be corrected in [cumulated] *Index Medicus* [and MEDLINE] when so acknowledged by publishers, editors or authors in the journals from which articles are indexed.... Errors will actually be corrected in only those elements of a citation and text which appear in *Index Medicus* and MEDLINE." Errors that will be corrected online include such things as misspelled or missing authors' names, incorrect dosages given in an abstract, and the like. When an error occurs in the text of an article not reflected in MEDLINE (e.g., in tables, diagrams, text, micrographs, bibliographies, etc.), an all purpose erratum rubric will be typed after the cited article.

Changes to citations and/or abstracts are identified using the following rubrics: [published erratum appears in...], [corrected to...], [corrected], [correction of...], [corrected; erratum to be published].

Figure 2 shows some samples of citations corrected in MEDLINE as a result of published errata.

This handling of retractions and errata in MEDLINE assists the user in determining the reliability of the information retrieved from the database and helps NLM move closer to its goal of providing the most accurate and timely access to the medical literature possible. For more information on the handling of retractions and errata, please contact the Index Section, NLM.

Sample of a Retraction of Publication citation:

UI - 86266052
 AU - Ohhashi T
 AU - Azuma T
 TI - Retraction. Sympathetic effects on spontaneous activity in bovine mesenteric lymphatics [letter] [Retraction of Ohhashi T, Azuma T. In: Am J Physiol 1984 Oct;247(4 Pt 2):H610-5]
 MH - *Retraction of Publication
 SO - Am J Physiol 1986 Jul;251(1 Pt 2):H226

Original citation as modified in MEDLINE:

UI - 85044219
 AU - Ohhashi T
 AU - Azuma T
 TI - Sympathetic effects on spontaneous activity in bovine mesenteric lymphatics. [Retracted by Ohhashi T, Azuma T. In: Am J Physiol 1986 Jul;251(1 Pt 2):H226]
 MH - Animal
 MH - Atropine/PHARMACODYNAMICS
 MH - Cattle
 MH - Cocaine/PHARMACODYNAMICS
 MH - Electric Conductivity/DRUG EFFECTS
 MH - Electric Stimulation
 MH - Guanethidine/PHARMACODYNAMICS
 MH - Hexamethonium Compounds/PHARMACODYNAMICS
 MH - Lymphatic System/DRUG EFFECTS/*INNERVATION
 MH - Muscle Contraction/DRUG EFFECTS
 MH - Norepinephrine/*PHARMACODYNAMICS
 MH - Support, Non-U.S. Gov't
 MH - Sympathetic Nervous System/DRUG EFFECTS/*PHYSIOLOGY
 MH - Tetrodotoxin/PHARMACODYNAMICS
 SO - Am J Physiol 1984 Oct;247(4 Pt 2):H610-5

Figure 1

Misspelled author's name:

AU - Carrollton JE
AU - Brooke MH
AU - Norris BJ
AU - Carroll JE/[corrected to Carrollton JE]
TI - Dystrophic lipid myopathy in two sisters [published erratum appears in Arch Neurol 1986 May;43(5):501]
SO - Arch Neurol 1986 Feb; 43(2):128-31

Error in an abstract:

The citation appears thus:

AU - Tamer AM
AU - Friedman LB
AU - Maxwell SR
AU - Cynamon HA
AU - Perez HN
AU - Cleveland WW
TI - Oral rehydration of infants in a large urban U.S. medical center [published erratum appears in J Pediatr 1986 Jan;108(1):160]
SO - J Pediatr 1985 Jul;107(1):14-9

Corrections in the abstract are indicated thus:

A prospective randomized study of ... chloride [corrected] ... 30 mEq/L bicarbonate, 2gm/dL glucose [corrected] ... 3gm/dL [corrected] was given ...

Figure 2

Serials Update

INDEXED TITLES UPDATE, DECEMBER 1986

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the

last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, NOVEMBER 1986

INI CANADIAN CRITICAL CARE NURSING JOURNAL
CAN CRIT CARE NURS J
INI,SEP 1984--
HEALTH MEDIA INCORPORATED FOR THE SOCIETY
OF CRITICAL CARE NURSES OF CANADA
TORONTO CANADA
CALLED ALSO: CCCNJ, DEC.1985?- .
INDEXING BEGAN WITH V3N2,APR 1986.
W1 CA546J 0826-6778
SR0055386 JC: CGN

INI JOURNAL OF BURN CARE AND REHABILITATION
J BURN CARE REHABIL
INI,SEP/OCT 1980--
BURN SCIENCE PUBLISHERS
DALLAS TX UNITED STATES
OFFICIAL PUBLICATION OF THE AMERICAN BURN
ASSOCIATION.
INDEXING BEGAN WITH V7N4,JUL-AUG 1986.
W1 J057R 0273-8481
J14885000 JC: HLK

INI JOURNAL OF CARDIOVASCULAR NURSING
J CARDIOVASCUL NURS
INI,NOV 1986--
ASPEN PUBLISHERS
FREDERICK MD UNITED STATES
INDEXING BEGAN WITH V1N1,NOV 1986.
IN PROCESS 0889-4655
SR0057233 JC: JCN

HLI JOURNAL OF CONTEMPORARY HEALTH LAW AND
POLICY
J CONTEMP HEALTH LAW POLICY
INI,SPRING 1985--
CATHOLIC UNIVERSITY OF AMERICA PRESS
WASHINGTON UNITED STATES
INDEXING BEGAN WITH V1N1,1985.
W1 J0595T 0882-1046
SR0054761 JC: IDD

HLI JOURNAL FOR HOSPITAL ADMITTING MANAGEMENT
J HOSP ADMIT MANAGE
1,1975?--
NATIONAL ASSOCIATION OF HOSPITAL ADMITTING
MANAGERS
WASHINGTON UNITED STATES
NLM COLLECTS V12N1,SUMMER 1986- .
INDEXING BEGAN WITH V12N1,SUMMER 1986
ON ORDER
SR0058373 JC: HA2
NATIONAL ASSOCIATION OF HOSPITAL
ADMITTING MANAGERS, SUITE 700,1101
CONNECTICUT AVE.,NW,WASHINGTON DC 20036.

HLI OR MANAGER
OR MANAGER
INI,APR 1985--
OR MANAGER
BOULDER CO UNITED STATES
THE MONTHLY NEWSLETTER FOR OR DECISION
MAKERS.
INDEXING BEGAN WITH V2N1,JAN 1986.
IN PROCESS 8756-8047
SR0056843 JC: OI7

IDL PRACTICA ODONTOLOGICA
 PRACT ODONTOL
 IN1,NOV/DEC 1979--
 EDICIONES INDEX
 MEXICO CITY MEXICO
 INDEXING BEGAN WITH V7N8,AUG 1986.
 W1 PR137F 0185-5905
 P21430000 JC: PHX

IDL REVISTA DEL MUSEO DE LA FACULTAD DE
 ODONTOLOGIA DE BUENOS AIRES
 REV MUSEO FAC ODONTOL B AIRES
 IN1,JUN 1986--
 UNIVERSIDAD DE BUENOS AIRES
 BUENOS AIRES ARGENTINA
 INDEXING BEGAN WITH VIN1,JUN 1986.
 ON ORDER
 SR0058485 JC: RBO

TITLE CHANGES, NOVEMBER 1986

IM BAILLIERES CLINICAL GASTROENTEROLOGY
 BAILLIERES CLIN GASTROENTEROL
 1987--
 BAILLIERE TINDALL ENGLAND
 CONTINUES: CLINICS IN GASTROENTEROLOGY.
 ON ORDER
 SR0058361 JC: BBG

INI HOLISTIC NURSING PRACTICE
 HLI
 HOLIST NURS PRACT
 IN1,NOV 1986--
 ASPEN UNITED STATES
 FREDERICK MD
 SUPERSEDES: TOPICS IN CLINICAL NURSING.
 INDEXING BEGAN WITH VIN1,1986.
 ON ORDER 0887-9311
 SR0058474 JC: HNP

IM GASTROENTEROLOGIC CLINICS OF NORTH AMERICA
 GASTROENTEROL CLIN NORTH AM
 1987--
 W.B. SAUNDERS UNITED STATES
 PHILADELPHIA
 CONTINUES: CLINICS IN GASTROENTEROLOGY.
 ON ORDER
 SR0058346 JC: GNA

IM JOURNAL OF CLINICAL PHARMACY AND
 THERAPEUTICS
 J CLIN PHARM THER
 12N1,FEB 1987?--
 BLACKWELL SCIENTIFIC PUBLICATIONS
 OXFORD ENGLAND
 CONTINUES: JOURNAL OF CLINICAL AND
 HOSPITAL PHARMACY.
 ON ORDER 0269-4727
 SR0058349 JC: HPI

TITLES NO LONGER INDEXED AS OF NOVEMBER 1986

IM CLINICAL IMMUNOLOGY REVIEWS
 CLIN IMMUNOL REV
 1,1981-4N2,1985
 MARCEL DEKKER UNITED STATES
 NEW YORK
 V15N3,1985 OF IMMUNOLOGICAL INVESTIGATIONS
 ALSO CALLED: SPECIAL ISSUE. CLINICAL
 IMMUNOLOGY REVIEWS.
 INDEXING BEGAN WITH VIN1,1981.
 W1 CL715I 0277-9366
 C25748000 JC: DFF

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES,
NOVEMBER 1986

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH and POPLINE are listed in the "INDEXED TITLES UPDATE" section. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by

the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, please contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ADVANCES IN HEALTH EDUCATION AND PROMOTION
1,1986--
JAI PRESS
GREENWICH CT UNITED STATES
ON ORDER
SR0058545
JAI PRESS INC.,36 SHERWOOD
PLACE, GREENWICH CT. 06836

ADVANCES IN SYSTEM ANALYSIS
1,1986--
FRIEDR VIEWEG AND SON
BRAUNSCHWEIG/WIESB GERMANY, WEST
ADEN
IN PROCESS
SR0058310 \$140.00

ADVANCES IN TRAUMA
1,1986--
YEAR BOOK MEDICAL PUBLISHERS
CHICAGO UNITED STATES
ON ORDER
SR0058375
YEAR BOOK MEDICAL PUBLISHERS,35 E.
WACKER DRIVE, CHICAGO IL 60601

AIDS RECORDS
1,1987?--
BIO-DATA PUBLISHERS
WASHINGTON UNITED STATES
ON ORDER
SR0058548 \$275.00
BIO-DATA PUBLISHERS, BOX 66020, WASHINGTON
DC 20035-6020

ANER
1,1986--
HUG-VERLAG FELDMANN
ESSEN GERMANY, WEST
FACHZEITUNG FUR MANNERHEILKUNDE UND
ALLGEMEINE MEDIZIN. SUPPLEMENT TO: GYNE.
ON ORDER
SR0058506

BIO MEDICA
1N1,1986--
BIO MEDICA
TOKYO JAPAN
ON ORDER
SR0058326 \$37.00

BIOMODULATION UND BIOTHERAPIE DES KREBES
1,1986--
VERLAG FUR MEDIZIN FISCHER
HEIDELBERG GERMANY, WEST
IN PROCESS
SR0058384

BIOPHARMA
1,1987--
ADIS
AUCKLAND NEW ZEALAND
ON ORDER
SR0058387 \$295.00
ADIS PRESS, SUITE B-30 OXFORD COURT
BUSINESS CENTER, LANHORNE PA 19047

BRITISH REVIEW OF BULIMIA AND ANOREXIA
NERVOSA
1N1, DEC 1986--
ANOREXIC FAMILY AID NATIONAL INFORMATION
CENTER
NORWICH ENGLAND
ON ORDER
SR0058492
ANOREXIC FAMILY AID, SACKVILLE PLACE, 44
MAGDALEN ST, NORWICH, NORFOLK NR3
1JE, ENGLAND

CARDIAC SURGERY
1N1, OCT 1986--
HANLEY AND BELFUS
PHILADELPHIA UNITED STATES
ON ORDER
SR0058360 \$78.00
HANLEY AND BELFUS, BOX 1377, PHILADELPHIA
PA 19105-9990

CARDIOTHORACIC SURGERY
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CONTINUES: MEDIZINTECHNIK IN KRANKENHAUS
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PORTO ALEGRE BRAZIL
IN PROCESS
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WASHINGTON UNITED STATES
ON ORDER
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20036

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EASTON PA UNITED STATES
ON ORDER
SR0058464 \$275.00
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AMERICA,TWENTIETH AND NORTHAMPTON
STREETS,EASTON PA 18042

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ZENTRALBLATT FUR PHARMAZIE,
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1,1986--
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BERLIN GERMANY, EAST
ON ORDER
SR0058524 \$140.00
VERLAG VOLK UND GESUNDHEIT,VILLENANG
2,DDR-6900 JENA,EAST GERMANY

PDO Search Request

Please fill in all applicable items of information for desired searches.

Name: _____ Telephone No. _____

A. Cancer Treatment Information, yes / no

1. Diagnosis (Cancer Type) _____

2. Stage _____

a. Is cell type relevant: _____yes _____no

Please specify _____
(e.g. small cell lung carcinoma)

b. Recurrent disease following therapy? _____yes _____no

3. Type of information to be retrieved:

a. Information for Patients _____yes _____no

b. State-of-the-Art Treatment Information _____yes _____no

B. Active Protocols yes/no

1. Diagnosis (cancer type) _____

2. Stage: _____

a. Metastatic? _____yes _____no To what sites? _____

b. Recurrent disease following therapy? _____yes _____no

c. Prior treatment received that could exclude patients from protocols:

1. Surgery _____yes _____no

2. Radiation _____yes _____no

3. Chemotherapy _____yes _____no

a. which drugs _____

3. Is cell type an important consideration? If so, please specify _____

4. Phase of investigation: Adjuvant____, I____, II____, or III____

5. Is the treatment modality an important search criteria? If so:
- a. to be used: _____
 - b. to be excluded: _____
6. If important, specify drug(s) _____
(Please provide generic drug name.)
7. Is the Lead Organization or Group an important consideration? If so, please provide the names of the organizations (e.g., ECOG.)
8. Is the location of the organization(s) participating in the protocol(s) an important consideration? If so, please specify the state(s).

9. Protocol information to be retrieved:
- a. Protocol title and Chairman yes no
 - b. Entry Criteria and Objectives yes no
 - c. All protocol details yes no
 - d. Participants in selected area only yes no
 - e. All participants yes no
10. Other retrieval information that may affect protocol applicability: sex, age, menopausal status, etc. _____

PDQ Searching Hints
For Use With PDQ Search Request

A.1 If the physician wants to see a list of all state-of-the-art statements in PDQ, choose option #4 (Cancer Information) from the Main PDQ Menu. Then type LIST at the caret (>). Since statements are revised on a monthly basis and new statements may be added from one month to another, this list should not be stored as a reference document for prolonged periods.

A.2 Stage of disease is an important factor which often determines which treatment option should be selected under options 3 and 7 (Treatment by Cell Type/Stage) on the PDQ Cancer Information Menu. If the requester does not specify the stage and merely indicates that the tumor has become metastatic, the stage that precedes "recurrent" or "relapsed" disease under option #7 is generally the most appropriate stage (e.g.: stage IV breast cancer).

If the stage specified is not shown under option 3 or 7, a translation of one staging system to another can often be found by reviewing the information in Staging Information (option #6). In colon cancer, for example, the section on staging provides users with the information that Duke's C colon cancer is equivalent to Stage III colon cancer.

A.2.a Treatment options often vary based on the histopathology (cell classification) of the cancer which is determined by the pathologist at diagnosis. Therefore, each requester should be asked whether cell type is an important prognostic factor that influences the selection of therapy.

A.3 Information for patients is located on the left side of the Cancer Information Menu and information for physicians (State-of-the-Art) is on the right. (If in doubt about what to print, print all information on a side except that in options #3 or #7. Under these two options, print stage-specific information requested by the physician.

B.1 See A.1 above. Note that protocols can be retrieved for only one diagnosis at a time. Currently there is little information in PDQ for metastatic tumors that have an unknown primary. However, a statement on adenocarcinoma of unknown origin is in preparation.

B.2 See A.2 above.

B.3 See A.2.a above.

B.4 Cancer treatment research is performed in "Phases". The earliest phase of clinical investigation is the Phase I study. This is the first time that the therapy is used in humans. Generally, only patients who have cancers that are unresponsive to standard forms of treatment and those that recur with metastatic disease following initial cancer treatment are candidates for these trials. In contrast, a Phase III trial is one that is designed

to see if a promising therapy that has successfully passed through the early phases can produce responses that are equivalent to standard therapies for that type or stage of disease. Type "help" or enter a "?" after selecting "phase" in the PDQ protocol menu for a concise explanation of each phase of investigation.

- B.5 The words "treatment modality" refer to the type of therapy (e.g.: chemotherapy or radiotherapy). A list of the treatment modalities available in PDQ can be found in the PDQ User Guide and on the PDQ Treatment Modality Menu. Sometimes it is necessary to exclude a modality such as radiation therapy.
- B.6 Always ask for the generic drug name. If you only have the commercial drug name and don't get any hits, try an abbreviation. PDQ will retrieve all drugs and combination chemotherapy regimens containing the drug specified by the user. Only one drug may be specified for each search.
- B.7 Ask the requestor if the PDQ protocol retrieval should be limited to a certain state or state. Geographic location is often an important factor in the selection of a protocol for patients. With the exception of a few protocols being conducted in Canada, all protocols in PDQ are being conducted in the U.S. Multiple states, as well as Canadian provinces, may be specified by entering the two character postal code. A list of postal codes for states and Canadian provinces will be displayed if the searcher selects state retrieval (option #7) on the PDQ protocol menu.
- B.8 Requester may ask for all protocols being performed by a specific group or at a specific organization (e.g.: ECOG or MAYO) by entering a unique identification number from option #1 (unique id) on the protocol menu. Abbreviations for groups can be found in Appendix A of the PDQ User Guide. For example, a search for ECOG:, MAYO: would retrieve all protocols that were being performed by both organizations. The colon (:) is used to perform a root search to retrieve up all unique identifiers beginning with those initials.
- B.9 Standard PDQ print formats will work for the information listed as follows:
- 9a. - short format
 - 9a. & 9b. - medium format
 - 9c. - long format
 - 9d. or 9e. - names format
- The "Custom" print format can be used to combine any or all of the above.
- B.10 Any keywords that might be useful in searching protocol titles or manual screening through entry criteria could be listed here.



National Institutes of Health
National Library of Medicine
Bethesda MD 20209

December 4, 1986

Dear Domestic MEDLARS User

This is to notify you that on January 1, 1987, the pricing structure of CHEMLINE and TOXLINE will be modified in response to increases in the 1987 royalty rates charged by Chemical Abstracts Service (CAS), and BioSciences Information Service (BIOSIS), the suppliers of proprietary data for these files.

To reflect these changes, the NLM Online Pricing Algorithm has been updated in the Connect Charge and Citation Charge components. Based on past experience, we estimate that the approximate average hourly rate in Prime Time for CHEMLINE will be \$86, and that for TOXLINE will be \$109. An individual's actual hourly rate will vary, of course, based on total resources used.

It is important to note that in past years, a discount for estimated browsing was built into the online Citation Charge for CAS data as allowed under NLM's license from CAS. With the advent of the new PRINT BROWSE feature, this discount will be given at the time of online printing rather than as an average to all users built into the Citation Charge. In order to minimize costs, we encourage users to take advantage of PRINT BROWSE to refine their searches, and save the more detailed print formats for final answer display.

Please see Table I on the reverse side of this letter for the new NLM rates for the six components of the online algorithm. Additionally, note that offline page charges and TOXLINE Automatic SDI rates have been increased due to royalty charges. NLM did not increase any of its component charges for these files. For your information, Table II gives a further breakdown of changes in royalties by supplier of information.

Sincerely yours,

Lois Ann Colaianni
Associate Director
Library Operations

Henry Kissman, Ph.D.
Associate Director
Specialized Information Services.

(over)

TABLE I

New NLM Rates for CHEMLINE and TOXLINE

January 1, 1987

ONLINE PRICING ALGORITHM

| Files | Connect Charge (Per Hour) | | Search Statement Charge | Citation Charge*** | Interaction Charge (Carriage Returns) | Computer Resources (Disk Accesses) (Per 100) | | Character Charge (Per 1,000) | |
|---------------------|---------------------------|-----------|-------------------------|--------------------|---------------------------------------|--|--------|------------------------------|--------|
| | Non-Prime | Prime | | | | Non-Prime | Prime | Non-Prime | Prime |
| CHEMLINE | \$58.50* | \$61.25* | \$0.01 | \$0.26* | \$0.01 | \$0.06 | \$0.12 | \$0.08 | \$0.12 |
| TOXLINE & BACKFILES | \$73.10** | \$75.85** | \$0.01 | \$0.16** | \$0.01 | \$0.06 | \$0.12 | \$0.08 | \$0.12 |

* Includes Royalty of \$54.00 Per Connect Charge and \$0.25 Per Citation Charge

** Includes Royalty of \$68.60 Per Connect Charge and \$0.15 Per Citation Charge and its Backfiles.

***Discount for estimated browsing no longer included in Citation Charge.

Use PRINT BROWSE command to print records online without incurring a Citation Charge.

OFFLINE PROCESSING RATES

Pages

CHEMLINE \$1.46 (Includes \$1.28 Royalty Charge)

TOXLINE \$0.66 (Includes \$0.48 Royalty Charge)

AUTOMATIC SDI SEARCHES

TOXLINE \$4.00 Per search (Includes \$3.00 Royalty Charge)

TABLE II

1986-7 Online Royalties by Supplier For CHEMLINE and TOXLINE

| | | TOXLINE | | CHEMLINE | |
|--------|------|----------------|-----------------|----------------|-----------------|
| | | Connect Charge | Citation Charge | Connect Charge | Citation Charge |
| CAS | 1986 | \$44.00 | \$0.068 | \$54.00 | \$0.092 |
| | 1987 | 54.00 | 0.135* | 54.00 | 0.257* |
| ASHP | 1986 | 10.00 | 0.006 | --- | --- |
| | 1987 | 10.00 | 0.006 | --- | --- |
| BIOSIS | 1986 | 4.10 | 0.011 | --- | --- |
| | 1987 | 4.60 | 0.0125 | --- | --- |

* Rate no longer includes a discount for estimated browsing