

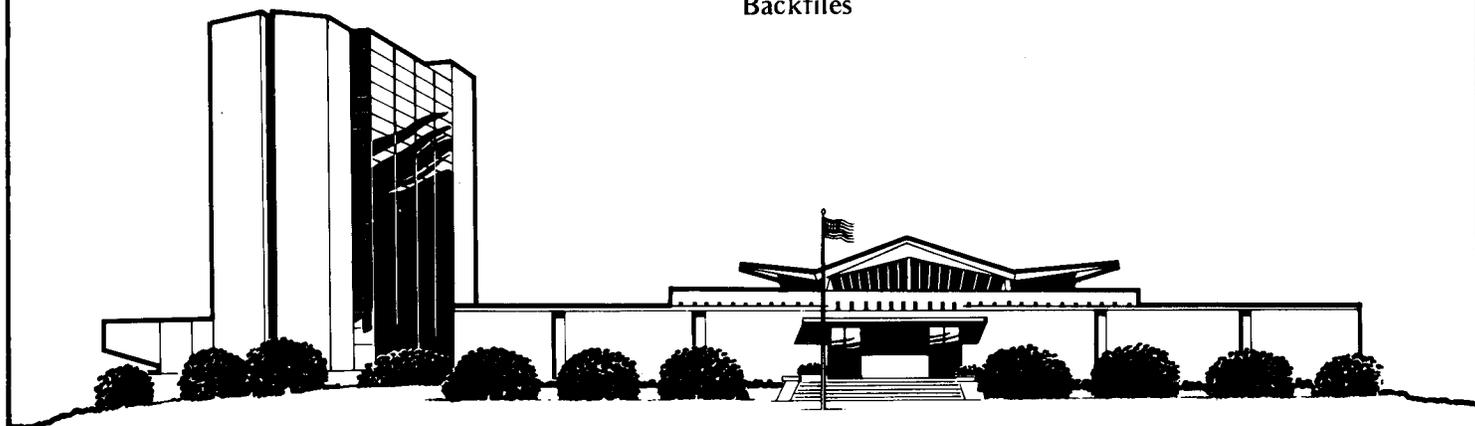
THE NLM TECHNICAL BULLETIN

REGULAR ITEMS

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- 3 Technical Notes
- 10 New Serials and Title Changes Announcements -
December 1981

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Backfiles



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DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	10,497	THROUGH 1982	22 JAN 82	
*BIOETHICS	12,180	JAN 73-JUL 81	16 SEP 81	8109(EM)
*CANCERLIT	281,885	JAN 63-JAN 82	18 JAN 82	8201(EM)
*CANCERPROJ	21,117	1978-1981	12 NOV 81	8110(EM)
*CATLINE	356,712	THROUGH 1982	22 JAN 82	
*CHEMLINE	520,741		25 JAN 82	8201(EM)
*CLINPROT	2,860		17 NOV 81	8110(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
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MED79	264,528	JAN 79-DEC 79	14 DEC 81	
MED77	510,972	JAN 77-DEC 78	14 DEC 81	
+MED75	642,934	JAN 75-DEC 76	14 DEC 81	
+MED72	669,105	JAN 72-DEC 74	14 DEC 81	
+MED69	668,257	JAN 69-DEC 71	14 DEC 81	
+MED66	501,801	JAN 66-DEC 68	14 DEC 81	
MESH VOC	42,969	1982	18 JAN 82	
*NAME AUTH	123,565		25 JAN 82	
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 8600 Rockville Pike
 Bethesda, Maryland 20209

TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the Online Services Reference Manual 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.

- MED79
ONLINE - On December 14, 1981, the MED79 (BACK79) file became available for online searching at NLM and SUNY. This file contains 1979 citations removed from MEDLINE during year-end processing. To use the file online, type FILE MED79 or FILE BACK79 or FILE B79. The file is also available through OFFSEARCH. (See the Monthly Hint in the December 1981 Bulletin for instructions on executing an OFFSEARCH in MEDLINE and all six backfiles.) Entry date (DA) ranges for MEDLINE and its backfiles are included in this issue as Appendix A.
- POPLINE
PRINT AR
(Manual,
Part 24.4) - The PRINT AR command in POPLINE has been changed to include three additional data elements. The new format for PRINT AR will contain these fields in the following order: Secondary Source ID (SI), Author (AU), Corporate Name (CN), Transliterated/Vernacular Title (TT), Title (TI), General Notes (GN), Abstract (AB), Address (AD), and Source (SO).
- MEDLINE AND
INDEX MEDICUS
LIMITED TO
SERIALS - MEDLINE and Index Medicus will be limited to serial literature only. Monographic chapters will no longer be indexed.
- PERGAMON PRESS
ABSTRACTS
ONLINE - Abstracts for journals published by Pergamon Press and indexed in Index Medicus will be included in the MEDLINE database, beginning with journal issues published in 1982.
- TDB UPDATE - The Toxicology Data Bank (TDB) has been updated. There are now 2,802 full records and a total of 3,555 records in the database. A new list of names of all TDB records will be made available following the next TDB update which is scheduled for Spring 1982. Those users who have requested such lists in the past will automatically receive the new version.
- SEARCHING ISSN -
AND ISBN
NUMBERS IN
CATLINE AND
AVLINE - When searching ISSN or ISBN numbers in CATLINE and AVLINE, use the truncation symbol (:) at the end of the number to ensure retrieval of numbers qualified by phrases or key title. This will be corrected as soon as possible and notice of the correction will be printed in the Bulletin.

Example: 0-7216-7878-5: will retrieve

the ISBN 0-7216-7878-5 (set).

0-7216-7878-5 will not.

CHANGE IN CHARGING MECHANISM FOR DATABASE TAPE RECIPIENTS
Joseph Leiter, Ph.D., Associate Director for Library Operations

In November 1981, the NLM Board of Regents reviewed the MEDLARS agreements for leasing tape copies of NLM's databases as well as online access for foreign countries and recommended that NLM charge on a use fee structure. The intent of this change is a more equitable arrangement for all, i.e., charges based on usage rather than flat, fixed charges. The change from a fixed fee for MEDLINE/MEDLARS tapes to a use fee structure is similar to mechanisms used by other database producers, both Federal and in the professional nonprofit sector. The change went into effect January 1, 1982.

There is now a minimum charge of \$20,000 per year for MEDLINE and its backfiles which includes usage at \$4.00 per online connect hour and \$0.01 per offline printed citation whether printed offline from online searching, offline searching, or SDI. Usage greater than the \$20,000 minimum will be charged at the same \$4.00 per connect hour and \$0.01 per offline printed citation. Previously, charges were \$50,000 for the first year and \$30,000 each year thereafter for leasing tape copies of MEDLARS databases.

In summary, any institution or organization which leases NLM MEDLARS databases and subsequently provides service on its own system (i.e., some foreign MEDLARS centers, BRS, and DIALOG) must now pay NLM a minimum of \$20,000 which includes usage fees of \$4.00 per connect hour and \$0.01 per offline printed citation instead of an annual fee only.

SCORE MEETING REPORT

Gail Yokote, Texas Medical Center, Houston Academy of Medicine

The Standing Committee for Online Retrieval Education (SCORE) met on September 24, 1981, at the National Library of Medicine (NLM). Major topics discussed included:

- 1) Test of the revised Medical Library Association (MLA) Continuing Education Course, CE 33, "Health Planning and Administration";
- 2) Introduction of new members, review of the history of SCORE, and discussion of the goals and current role of SCORE;
- 3) The SCORE self-paced manual on OFFSEARCH/STORESEARCH;
- 4) The SCORE slide/tape program on STRINGSEARCH/SENTENCESEARCH;
- 5) The SCORE self-paced workbook on neuroanatomy MeSH terms;
- 6) Status of the NLM Online Services Training Program; and
- 7) Future Plans.

Test of the revised MLA CE 33 "Health Planning and Administration"

On September 23, 1981, the revision of this course was tested at NLM with a group of approximately 20 individuals from Region IV. SCORE members attended and during the SCORE meeting met with Ellen Brassil, co-developer and instructor of the Health Planning and Administration course, to provide her with comments and suggestions for improving the course. Once changes in the course have been reviewed by the SCORE committee, the course will be available for MLA to offer.

Introduction of new members, review of history of SCORE and discussion of the goals and current role of SCORE

The four new SCORE members, Catherine Seeley, Carol Fenichel, Kathryn Jones, and Gail Yokote, were introduced. Pat Healy of MEDLARS Management Section, NLM, assumed the chairmanship of SCORE from Phyllis Mirsky. For the benefit of new members, a brief historical review of SCORE was presented, and the past accomplishments, current projects, and goals of SCORE were discussed. Past projects include:

- 1) Development of the Technical Resource Person (TRP) and Technical Update programs
- 2) Survey of continuing education needs for NLM online searchers
- 3) Subject oriented continuing education courses (e.g., Neoplasia)
- 4) Continuing education courses on technical aspects of searching

The role of SCORE as an advisory committee to the Associate Director for Library Operations, NLM, representing the entire network, was re-emphasized. The nomination procedure and rotation schedule for committee members was explained.

Self-paced manual on OFFSEARCH/STORESEARCH

Tricia McKeown presented copies of sections of this self-paced manual to the committee for review. The manual was field tested in November 1981. A final copy will be completed by January 1982 and presented to the committee for approval. Following acceptance of the final product, the SCORE committee will make recommendations as to the mode of distribution.

Slide/tape on STRINGSEARCH/SENTENCESEARCH

Carolyn Reid reported on the status of the project to develop a slide/tape program on STRINGSEARCH/SENTENCESEARCH. A draft version should be available by February 1982. Carol Fenichel will also be working on this project.

Self-paced workbook on neuroanatomy MeSH terms

Ellen Nagle informed the committee that a draft of the workbook on neuroanatomy MeSH terms would be distributed to members at the next SCORE meeting. The workbook will contain a basic reading list in neurology and appropriate MeSH notes, plus diagrams on color microfiche. This tool will assist searchers in selecting proper MeSH headings in this subject area.

Status of the NLM Online Services Training Program

Pat Healy briefed the committee on the NLM Training Program. NLM is currently developing a comprehensive training plan which will include a means of distributing more training responsibilities to centers outside of NLM. Revised training agendas are also included in the plan. SCORE members will be asked to comment on the plan when it is developed.

Future Plans

Concurrent with the development of the NLM training plan, Carolyn Reid and Gail Yokote will develop guidelines for NLM-affiliated training centers. In addition, Gail Yokote and Tricia McKeown will develop guidelines for institutions wishing to host an NLM training course.

Carol Fenichel will develop a pathfinder document to assist searchers in the RML network in pursuing additional sources of continuing education. This document, which will be distributed by the MEDLARS Management Section to new users and others on request, will include advice on how to sponsor online searching courses, as well as information on professional library and information associations, MLA CE courses and publications on online searching. The searcher may then contact these organizations regarding membership and available continuing education opportunities. In conjunction with this effort, SCORE will ultimately develop guidelines for the development of documents for each region concerning services available to searchers in that region. These documents could serve as a "welcome package" to the NLM online network on a regional basis. Specific action on this proposal will be deferred until the regional reconfiguration is complete.

As a result of concern by SCORE members for more review-type continuing education opportunities, two other projects were introduced. These are a self-paced workbook on MeSH and a self-assessment program for trained searchers. The workbook, which will be developed by Catherine Seeley and Kathryn Jones, will contain information on the indexing process, basic principles of indexing, the structure of MeSH and the uses for subheadings.

Tricia McKeown will draft a list of topics which a self-assessment package might include. She will present these to the committee at the next meeting.

The next SCORE meeting is tentatively scheduled for the last week in February 1982.

Outgoing Members

The committee wishes to express its thanks to Ellen Nagle, Patti Corbett, Carol Maurer and Mary Metter for the significant contributions they have made to SCORE during their tenure on the committee.

SCORE Membership - 1981/82

Tricia McKeown
University of Texas Health
Science Center, Dallas

Carol Fenichel, Ph.D.
Philadelphia College of Pharmacy & Science

Catherine Seeley
State University of New York, Syracuse

Carolyn Anne Reid
Midcontinental Regional Medical
Library Program
University of Nebraska Medical Center

Gail Yokote
Houston Academy of Medicine

Kathryn Jones
University of Alabama in Birmingham

Melvin Spann, Ph.D. (ex Officio)
National Library of Medicine

Debbie Baillie (ex Officio)
National Research Council, Ottawa

Patricia Healy, Chairman
National Library of Medicine

EDUCATIONAL ACCESS PROGRAM FOR COURSES IN ONLINE INFORMATION
RETRIEVAL OFFERED IN THE UNITED STATES
Joseph Leiter, Ph.D., Associate Director for Library Operations

Effective February 1982, NLM is revising its Educational Access Program. Outlined below are the specifics of this program. Please contact MEDLARS Management Section if there are any questions or for an application packet to request educational codes.

NLM PROGRAM OBJECTIVE: To provide for online information retrieval instruction in courses relating to library/information science in the U.S.

COMPONENTS OF THE PROGRAM:

1. Access to NLM databases is provided for course preparation by instructors and for course work and practice by students.
2. All NLM databases available on the NLM and SUNY computers may be accessed as follows: SUNY: MEDLINE and its Backfiles, HEALTH PLANNING & ADMINISTRATION; NLM: all databases except those available on the SUNY computer.
3. NLM's **MEDLEARN** (CAI program) access on the NLM computer.
4. Educational codes are available only to domestic institutions of higher education or professional schools or societies that incorporate instruction on online retrieval systems in regularly scheduled courses. A course announcement, syllabus, or other material must be submitted to NLM by the institution requesting educational access codes as well as two copies of the online billing agreement (see #8) for each educational code requested.
5. Up to 10 educational access codes per institution for each class/course.
6. Educational codes are available in monthly increments for up to one year.
7. Educational codes are billed at non-prime connect hour rates plus the standard page charges for offprints. Royalty charges for TOXLINE, TOXBACK74, TOXBACK65, and CHEMLINE continue to be applicable.
8. Two copies of the NLM online billing agreement must be completed for each educational access code requested. This authorizes the National Technical Information Service (NTIS) to bill the educational institution for the connect hours and offprint page charges incurred.
9. In addition to two copies of the billing agreement per code requested, two copies of a Memorandum of Understanding (MOU) must be signed and returned to NLM. This MOU is intended to assure a common understanding of the responsibilities of NLM and the organizations utilizing educational codes.
10. The NLM Online Services Reference Manual is a resource document for online searchers. It describes the various databases as well as the basic system capabilities applicable in all databases. It is recommended that at least one copy be available for class members to use. 1982 Manuals will be available from NTIS in the near future.

MONTHLY HINT: COMPUTER PIRATES!

Editor's Note: The following hint was written by a user who understandably prefers to remain anonymous. Other users have reported similar experiences, and it seems likely that this problem is on the increase.

Do you perform demonstrations of MEDLINE and/or have users present during literature searches? Do you modify your PROFILE to change PAGESWIDTH, PAGESLENGTH, etc. and then throw away the printout sheets? If so, beware of computer pirates who may be watching the keys as you type or examining old discarded printouts to obtain the PASSWORD listed in your PROFILE.

Unfortunately, we had the experience of initiating login procedures and receiving the "USER ID ALREADY IN USE" message. Since there is only one terminal in our hospital medical library, this was an unnerving but, we hoped, unique experience! We called MEDLARS Management, had our user ID cancelled, logged in and changed our PASSWORD, and thought the situation was corrected.

Two days later, upon logging in, we again found "USER ID ALREADY IN USE." This time, we not only changed our PASSWORD and verified with MEDLARS Management that someone had indeed been trying to use our old PASSWORD the previous day, but we further analyzed how this could happen again.

As a result of our experiences we suggest the following procedures to protect your ID and PASSWORD:

1. Always have the user wait elsewhere while you login ("Byte Heads" -- people who love computers -- have a quick minds and excellent eyes!)
2. Destroy all printouts which include summaries of your PROFILE.
3. Choose a term for your PASSWORD that has no relation to your staff, institution, geographic area, library's initials, etc.
4. If you have any suspicions about unauthorized use of your PASSWORD, immediately use the PROFILE MODIFY command and change to a new word on both SUNY and NLM.
5. Document your online time and searching for the month to compare with NTIS billing charges in case of questions.

TENTATIVE
 ONLINE SERVICES TRAINING SCHEDULE 1982
 (6 months only plus Regional classes)

Jan 11-15	Initial	NLM
Jan 19-21	3-day Initial	RML 6 (by NLM)
Jan 25-29	Advanced	NLM
Feb 1-5	Initial	Nebraska
Feb 8-12	Initial	NLM
Feb 22-26	Initial	NLM
Mar 1-5	Advanced	NLM
Mar 8-12	Initial	UCLA
Mar 15-19	Initial	NLM
Mar 29-Apr 2	Initial	NLM
Apr 14-16	3-day Initial	RML 1 (by NLM)
Apr 19-23	Advanced	NLM
Apr 26-30	Initial	NLM
May 3-7	Initial	Nebraska
May 10-14	Initial	NLM
May 17-21	Initial	UCLA
May 26-28	3-day Initial	RML 2 (by NLM)
Jun 7-11	Initial	NLM
Jun 9-11	3-day Initial	UCLA
Jun 21-25	Advanced	NLM
Jun 28-Jul 2	Initial	NLM
Jul 7-9	3-day Advanced	RML 5 (by NLM)
Aug 23-25	3-day Initial	RML 7 (by Nebraska)
Sep 8-10	3-day Advanced	RML 3 (by NLM)
Sep 29-Oct 1	3-day Initial	RML 9 (by Nebraska)

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - DECEMBER 1981
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. 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. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

<p>ADVANCED GERIATRIC MEDICINE 1,1981-- PITMAN LONDON IN PROCESS A12916000</p>	<p>ENGLAND</p>	<p>HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY. ADVANCES AND PERSPECTIVES 1,1980?-- ACADEMIC PRESS NEW YORK IN PROCESS H12290000</p>	<p>UNITED STATES</p>
<p>ADVANCES IN DISEASE PREVENTION 1,1981-- SPRINGER NEW YORK IN PROCESS A13745000</p>	<p>UNITED STATES</p>	<p>INTERNATIONAL CONFERENCE ON IMMUNOPHARMACOLOGY 1ST,1980-- PERGAMON OXFORD ON ORDER I21830000</p>	<p>ENGLAND</p>
<p>ANNALES DE EEG EXPLORATION FONCTIONELLE DU SYSTEME NERVEUX 1,1981-- ELSEVIER AMSTERDAM ON ORDER A31833000</p>	<p>NETHERLANDS</p>	<p>IM INTERNATIONAL JOURNAL OF CARDIOLOGY VINI,1981-- ELSEVIER/NORTH-HOLLAND SUPERSEDES: EUROPEAN JOURNAL OF CARDIOLOGY. AMSTERDAM W1 IN766C I26451000 \$85.00</p>	<p>NETHERLANDS</p>
<p>IM CLINICAL AND EXPERIMENTAL DIALYSIS AND APHERESIS 5N1,1981-- MARCEL DEKKER CONTINUES: JOURNAL OF DIALYSIS. NEW YORK W1 CL657 C25450000</p>	<p>UNITED STATES</p>	<p>INTERNATIONAL SYMPOSIUM ON PLASTIC AND RECONSTRUCTIVE SURGERY OF THE HEAD AND NECK 3RD,1980?-- GRUNE AND STRATTON CONTINUES INTERNATIONAL SYMPOSIUM ON PLASTIC AND RECONSTRUCTIVE SURGERY IN THE FACE AND NECK. NEW YORK IN PROCESS I33945000</p>	<p>UNITED STATES</p>
<p>CLINICAL IMMUNOLOGY REVIEWS IN1, 1981-- MARCEL DEKKER NEW YORK IN PROCESS C25748000 \$90.00</p>	<p>UNITED STATES</p>	<p>METHODS IN NEUROBIOLOGY 1,1981-- PLENUM PRESS NEW YORK IN PROCESS M32785000</p>	<p>UNITED STATES</p>
<p>COMMENTS ON MODERN BIOLOGY. PART A, COMMENTS ON MOLECULAR AND CELLULAR BIOPHYSICS IN1,1980-- GORDON AND BREACH LONDON IN PROCESS C31865000</p>	<p>ENGLAND</p>	<p>PHYSICAL AND OCCUPATIONAL THERAPY IN PEDIATRICS 1,1980-- HAWORTH PRESS NEW YORK ON ORDER P13887000</p>	<p>UNITED STATES</p>
<p>CURRENT REVIEWS IN BIOMEDICINE 1,1981-- ELSEVIER/NORTH-HOLLAND BIOMEDICAL PRESS AMSTERDAM ELSEVIER NORTH HOLLAND PUB. CO., 52 VANDERBILT AVE., NEW YORK NY 10017 IN PROCESS C57292000</p>	<p>NETHERLANDS</p>	<p>QUALITY OF FOODS AND BEVERAGES 1,1981-- ACADEMIC PRESS NEW YORK ON ORDER Q00970000 \$29.50</p>	<p>UNITED STATES</p>

APPENDIX A

DATE OF ENTRY (DA) RANGES FOR YEARLY SEGMENTS OF MEDLINE AND ALL BACKFILES

MED66 1966 - 651113 through 661101
 1967 - 661123 through 671129
 1968 - 671212 through 681111

MED69 1969 - 681117 through 691119
 1970 - 691126 through 701112
 1971 - 701117 through 711117

MED72 1972 - 711130 through 721030
 1973 - 721108 through 731116
 1974 - 731130 through 741119

MED75 1975 - 741205 through 751108
 1976 - 751120 through 761103

MED77 1977 - 761104 through 771031
 1978 - 771101 through 781027

MED79 1979 - 781118 through 791026

MEDLINE 1980 - 791027 through 801027
 1981 - 801028 through 811030
 1982 - 811031 through

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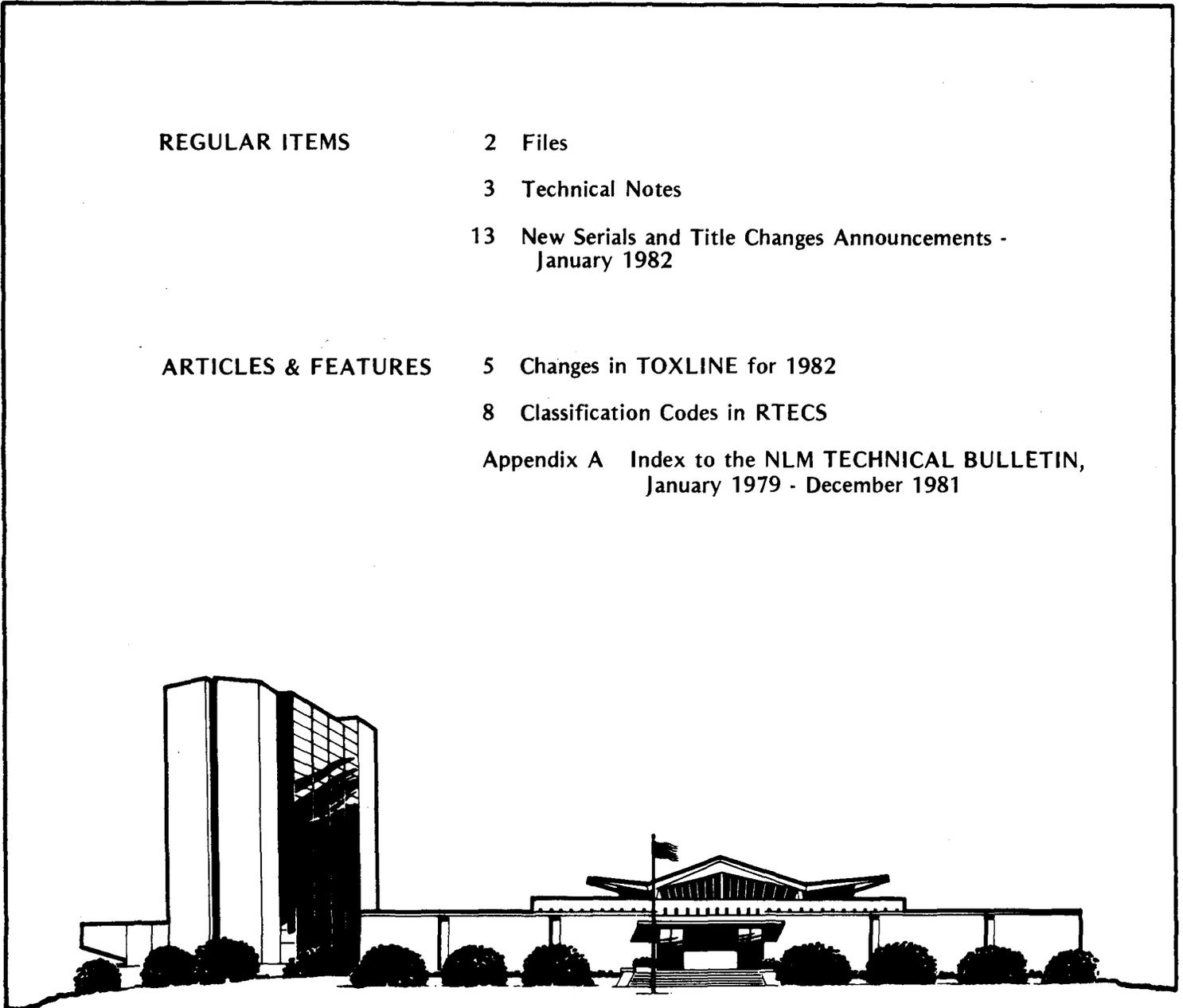
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SDILINE
AUTOMATIC SDIs - Reminder: Beginning with the February update the SDILINE Automatic SDIs will once again be processed one week prior to that month's update being available online. This procedure was first implemented with the 8109 (EM) update; however, during year-end processing the SDILINE Automatics were processed and mailed at the same time the online file was made available.

CANCERPROJ
UPDATE
DELAYED - Since Smithsonian Science Information Exchange (SSIE) was terminated as of October 1981, the next update of the CANCERPROJ database will be delayed at least until June 1982. The International Cancer Research Data Bank Program (ICRDB) is currently searching for another organization to process information about cancer research projects; meanwhile, an interim procedure is being set up for processing information about federally funded research.

CHEMLINE
REGENERATION - The CHEMLINE file was regenerated and became available to users on January 24, 1982. The file increased in size because records from the latest 1981 update are included. This regeneration also includes the most recent 1981 update. All changes in CAS Registry Numbers, CA index names or synonyms are reflected in the new file. At this time all CAS Registry Number records for chemical substances containing ring systems include this ring information. However, Chemical Abstracts service will not supply this information for subsequent 1982 updates. Please be aware that searching with ring information will give incomplete retrieval following the March 1982 update. We are currently looking into other means of supplying this type of information.

HEALTH FILE
(MANUAL, Part 23) - The Health Planning & Administration database became available for searching with the 1982 MeSH terms and pre-explosions on February 2, 1982.

HEALTH Automatic SDIs for 8202 (EM) were mailed February 10. This was the first monthly processing of SDIs for this file. HEALTH Autos for 8203 (EM) were processed and mailed after the February 15 update. Therefore, users received these two mailings within a shorter than normal time interval.

As previously announced, SUNY-primary access users may now input strategies to be stored for HEALTH Automatic SDIs every Tuesday between 12 noon and 1 p.m. ET against the HEALTH file at NLM. Remember to use the "H" prefix as part of the stored search name.

- POPLINE FILE - On January 18, 1982 the POPLINE file became available for
(MANUAL, Part 24) searching with the 1982 MeSH vocabulary.
- CLINPROT - An updated listing of the CLINPROT Thesaurus, January 1982,
THESAURUS is now available. Copies can be requested from either the
(MANUAL, Part 18) MEDLARS Management Section or the International Cancer
Research Data Bank, Westwood Building, 10A-18, Bethesda, MD
20205.
- TOXLINE - Recent budget cuts at EPA have terminated the EPA-sponsored
SUBFILE CHANGES publication Pesticides Abstracts and the continued acquisition
(MANUAL, Part 12) of this information for the TOXLINE subfile PESTAB. The
update for January, 8201(EM), is the final addition of
material to PESTAB. As indicated in the CANCERPROJ note
(page 3), the Smithsonian Science Information Exchange
(SSIE) has been terminated; the existing SSIE database has
been transferred to the National Technical Information
Service (NTIS). The December 8112 (EM) update to the RPROJ
subfile was the last update provided by SSIE; it contained
February 1982 data. Additional updates to this subfile are
uncertain at this time. See the article on page 5 for
detailed information on changes to this database.
- MeSH CONTAINS - The online MeSH file at both NLM and SUNY now contains
MEDLINE BACKFILE postings for all MEDLINE backfiles. This includes the
POSTINGS new MED79 database; the data element for this file is B79.
(MANUAL, Part 6) Each data element has two entries: the total postings and
the IM postings, indicated by an asterisk (*). These data
elements are not directly searchable. They are displayed
in a PRINT FULL or PRINT DETAILED command.

The entry for HEART DISEASES from the MeSH file follows:

```

prt fu compr
PROG:

1
MH - Heart Diseases
DE - HEART DIS
DC - 1
MN - C14.280
FX - NEUROCIRCULATORY ASTHENIA:3
TH - BIOETHICS ; POPLINE
B79 - 734 ; *460
B77 - 1646 ; *1051
B75 - 2398 ; *1385
B72 - 2946 ; *1559
B69 - 3055 ; *1867
B66 - 2082 ; *1501
    
```

- TB INDEX - Appendix A is a revised index to the NLM Technical Bulletin,
issues January 1979 through December 1981.

CHANGES IN TOXLINE FOR 1982
 Carolyn G. McHale, Specialized Information Services

OVERVIEW: This article discusses several changes affecting the TOXLINE database over the past several months. The enrichment of the database with additional toxicology-related material is first explained. This is followed by a discussion of the modification of the CBAC subfile due to the loss of abstracts from three Chemical Abstract (CA) sections. Eight section deletions from the IPA subfile are then enumerated. No new material will be added to two subfiles, PESTAB and RPROJ; this is also explained.

TOXBIB SUBFILE

TOXBIB, the TOXLINE subfile obtained from MEDLINE, has been broadened to include in-depth coverage of the following areas:

- Drug interactions
- Environmental pollution, including
 - Air pollution
 - Waste products
 - Water pollution
 - Pesticide residues
 - Food contamination
- Occupational diseases/disorders
- Radiation injuries
- Radiation induced disorders/diseases
- Radiation health
- Substance use disorders

This was accomplished by modifying the monthly TOXBIB search profile performed against MEDLINE to include these concepts. The February 1982 update, 8202 (EM), included the yield from the new profile. The 1982 MeSH vocabulary was also incorporated with this update for the TOXBIB subfile.

Previous input from MEDLINE focused on adverse effects, poisoning and toxicity of drugs/chemicals and diseases/disorders that are chemically induced. The enlarged search profile will increase the number of citations obtained from MEDLINE by approximately 25%, from an average of 2076 to 2600 citations per month.

MeSH terms and their subheadings are available in the Keyword (KW) data element for all the TOXBIB subfile citations. To search using specific MeSH terms, qualify with KW and truncate after the MeSH main heading to assure that all citations, regardless of attached subheadings, are retrieved.

Example:

SS 1/C?
 USER:
 (KW) TOBACCO USE DISORDER:
 PROG:

MM (TOBACCO USE DISORDER:) (10)
 1 TOBACCO USE DISORDER *BLOOD (KW)
 2 TOBACCO USE DISORDER *COMPLICATIONS (KW)
 3 TOBACCO USE DISORDER *PHYSIOPATHOLOGY (KW)
 4 TOBACCO USE DISORDER BLOOD (KW)
 5 TOBACCO USE DISORDER COMPLICATIONS (KW)
 6 TOBACCO USE DISORDER COMPLICATIONS/DIAG (KW)
 7 TOBACCO USE DISORDER ETIOLOGY/PSYCHOLOG (KW)
 8 TOBACCO USE DISORDER METABOLISM (KW)
 9 TOBACCO USE DISORDER PHYSIOPATHOLOGY (KW)
 10 TOBACCO USE DISORDER PHYSIOPATHOLOGY/*P (KW)
 SPECIFY NUMBERS, ALL, OR, NONE-

USER:
 all
 PROG:
 SS (1) PSTG (22)

(One could avoid the multi-meaning message by typing ALL preceding the MeSH heading, i.e., (KW) ALL TOBACCO USE DISORDER:).

Searching the Keyword data element with MeSH terms, of course, will only retrieve citations from the TOXBIB subfile, which constitutes 17% of TOXLINE.

CBAC SUBFILE

The CBAC subfile of TOXLINE is undergoing modification at this time. CBAC, obtained from Chemical Abstracts Service (CAS), represents approximately 50% of TOXLINE. Since 1975 we have obtained complete citations including abstracts from the following Sections of Chemical Abstracts:

- 1 Pharmacodynamics
- 2 Hormone Pharmacology
- 3 Biochemical Interactions
- 4 Toxicology
- 5 Agrochemicals
- 8 Radiation Biochemistry
- 59 Air Pollution and Industrial Hygiene
- 60 Sewage and Wastes
- 62 Essential Oils and Cosmetics
- 63 Pharmaceuticals
- 64 Pharmaceutical Analysis

Beginning in 1982, CAS made changes in the make up of the portions of the Chemical Abstract (CA) records that are available for online searching. TOXLINE will have to be altered to accommodate these changes. The major change is that abstracts will no longer be available for the citations in Sections 8, 59, and 60. Instead, relevant keywords and concept headings derived from the CAS-supplied citation record will be placed in the Abstract data element, which will continue to be searchable by text word.

Sections 8, 59 and 60 represent about 20% of the citations obtained from CAS each month. The information in these three sections will not be included in the TOXLINE updates of 8202 (EM) and 8203 (EM). We are planning to complete the required programming changes and subsequently add these sections in the April update, 8204 (EM). More detail on the exact nature of the changes to the CBAC subfile will be given in a future Technical Bulletin article.

IPA SUBFILE

The information obtained from the American Society of Hospital Pharmacists for the International Pharmaceutical Abstracts (IPA) subfile has been modified. Beginning with the coverage of Volume 19, eight of the IPA sections will not be available to TOXLINE. These eight sections are from IPA's Practice Track which includes pharmacy practice, legislation, laws, regulations, history, economics, and education. The IPA subfile will continue to have the Action Track and the Research Track which include adverse drug reactions, toxicity, drug interactions, drug testing, environmental toxicity, biopharmaceutics, pharmacology, and drug stability. Specifically, IPA sections 3-19 will continue to be in TOXLINE.

PESTAB SUBFILE

Recently the Environmental Protection Agency (EPA) has terminated support for the publication Pesticides Abstracts. Of course, this also eliminated the continued acquisition of this information for the TOXLINE subfile, PESTAB. The update for January, 8201 (EM), is the final addition of new material to PESTAB. The records added in the February update, 8202 (EM), were records rejected during 1981 that have since been corrected. We are evaluating the resulting net loss to TOXLINE of information in the pesticide area and are looking at possible replacement files.

RPROJ SUBFILE

The Smithsonian Science Information Exchange (SSIE) has been terminated resulting in the transfer of the database and its maintenance to the National Technical Information Service (NTIS). The December update, 8112 (EM), to the RPROJ subfile was the last update provided by SSIE; it contained February 1982 data. Additional updates to this subfile are uncertain since it is unclear how NTIS will provide this information.

CLASSIFICATION CODES IN RTECS

Jeanne C. Goshorn, Specialized Information Services, NLM

The Classification Code (CC) field in the online RTECS file is a multiply occurring field containing terms used to describe a compound as a particular type of agent. Since there have been some recent changes in this field, we would like to take this opportunity to alert online users to these changes and to explain some of the criteria used by the National Institute of Occupational Safety and Health (NIOSH), the agency responsible for file content, in assigning the terms/phrases found in the Classification Code (CC) field.

We are pleased to announce that we have reinstated to full search and print status all the Classification Code entries originally used in this field. This means that pesticide subclassifications are once again available in the online RTECS file. All 23 terms/phrases listed in Section 14.4.19 of the Online Services Reference Manual for RTECS are again directly searchable and printable. The list of terms shown in the Specialized Information Services version of the RTECS User's Guide, page 9, should be replaced with the following list of general terms/phrases and pesticide subclassifications:

General Terms/Phrases

AGRICULTURAL CHEMICAL
TUMORIGEN
DRUG
MUTAGEN
ORGANOMETALLIC
TERATOGEN
HORMONE
NATURAL PRODUCT
PRIMARY IRRITANT

Pesticide Subclassifications

ACARICIDE
AVICIDE
FUNGICIDE
GERMICIDE
GROWTH REGULATOR
HERBICIDE
ATTRACTANT REPELLENT CHEMOSTERILANT
INSECTICIDE
MOLLUSCICIDE
NEMATOCIDE
RODENTICIDE
UNCLASSIFIED
EXPERIMENTAL PESTICIDE
PESTICIDE-NO LONGER USED

All of the above Classification Code field entries are generated by NIOSH from internal file information originally established to simplify RTECS processing, and later released to the online file in order to facilitate searching of RTECS. Such a coding system has many possible applications for users accessing information across the RTECS file, as well as for those interested in a specific chemical compound. However, the user is warned that:

1. the Classification Code entries do not represent an evaluation of substance's toxicity, and
2. the codes are not all-inclusive with respect to use. (That is, there may be some substances in the RTECS file that should be, but are not, coded as belonging to certain classifications.)

In general, Classification Codes (CC) entries must be interpreted only in conjunction with other information found in each compound's record.

In order to further clarify the interpretation of Classification Code (CC) entries, a more detailed discussion of the criteria for assigning some of these codes might be useful. From this viewpoint, two categories of codes exist: 1) those based on the types of toxicity data found in a record for a compound and 2) those based on related information about use or application found in references from which the data were extracted. The terms TUMORIGEN, MUTAGEN, TERATOGEN, and PRIMARY IRRITANT fall into the first category, and thus indicate that respective data line(s) appear in the compound's record.

A compound with a Classification Code (CC) entry of TUMORIGEN may have reference to either positive or negative tumorigenic activity. The criteria for applying the TUMORIGEN term are that one or more of the following occur in its RTECS record:

1. One or more tumorigenic data lines. That is, Toxicity Data Keyword(s) (TDKW, searchable as IX) CARCINOGENIC, NEOPLASTIC, EQUIVOCAL TUMORIGENIC AGENT; or
2. United Nations International Agency for Research on Cancer (IARC) review line(s) (regardless of whether the IARC review concluded that the substance's carcinogenicity was positive, suspected, indefinite, negative, or no data available); or
3. National Toxicology Program (NTP) carcinogenesis bioassay status line(s) (regardless of whether the substance had only been selected for test or whether the NTP bioassay was positive, negative, indefinite, or still in progress).

Based on the above criteria, therefore, there may be some substances in RTECS that have only negative IARC review or NTP status lines, but that still appear with the Classification Code (CC) TUMORIGEN. The purpose of using these criteria is not to erroneously indict substances as tumorigens, but rather to bring the results of IARC reviews and NTP bioassays to the user's attention.

Similarly, any substance with the Classification Code (CC) MUTAGEN will contain one or more Toxicity Data Index Strings with MUTATION as a Toxicity Data Keyword (TDKW, searchable as IX). These data lines are defined as including positive results in either in vivo or in vitro studies.

A substance with the Classification Code (CC) TERATOGEN will contain:

1. One or more reproductive effects Toxicity Data Index Strings. That is, the Toxicity Data Keyword (TDKW, searchable as IX) REPRODUCTIVE or TERATOGENIC will appear in at least one line;
2. One or more tumorigenic Toxicity Data Index Strings that cite tumors in the reproductive system, that is, the Toxicity Data Keyword (TDKW, searched as IX) REPRODUCTIVE followed by TUMOR will appear.

Finally, any substance classified as PRIMARY IRRITANT will contain one or more Toxicity Data Index Strings with SKIN or EYE and IRRITATION as Toxicity Data Keywords (TDKW, searched as IX).

The remaining general Classification Code (CC) terms not discussed in detail previously and the pesticide subclassifications are assigned based on use or application information found only in references from which RTECS data for the compound were extracted. Thus the use classifications are not all-inclusive, but are based only on the references from which RTECS is compiled. A few general statements about what is included in some of the application type Classification Codes (CC) might be useful to searchers: AGRICULTURAL CHEMICAL includes those used to improve crop yields, such as fertilizers and pesticides of all kinds. DRUG includes both commercially available (approved) compounds as well as those that are identified as experimental. HORMONE includes both those found naturally in the body and synthetic substances that act as hormones. NATURAL PRODUCT includes organic compounds that are produced by plants, animals, and microorganisms.

An online searcher of the RTECS file thus has available a selection of both general and application type Classification Codes (CC) with which to search across the file for groupings of compounds based on specific end user needs. For instance, one might search for all compounds in RTECS with a Classification Code (CC) of TUMORIGEN:

```

SS 1 /0?
USER:
(cc) tumorigen
PRG:
SS (1) PSTG (2908)

SS 2 /0?
USER:
prt 1 include cc
PRG:

SI - NIOSH/AB0900000
N1 - 5-ACENAPHTHENAMINE
RN - 4657-93-6
CC - TUMORIGEN
    
```

Again the user is cautioned about the need to review the complete data record for retrieved compounds, since some assignments of classification code (CC) TUMORIGEN will be for negative results.

As another example, a user might search for all compounds in RTECS used as a HERBICIDE and for which reports of human effects are included:

SS 1 /C?

USER:

(cc) herbicide and humans (1x)

PROG:

SS (1) PSTG (37)

SS 2 /C?

USER:

prt 1 toxdata, include cc

PROG:

SI - NIOSH/AG6825000

N1 - ACETIC ACID, (2,4-DICHLOROPHENOXY)-

RN - 94-75-7

CC - AGRICULTURAL CHEMICAL

CC - TUMORIGEN

CC - MUTAGEN

CC - TERATOGEN

CC - HERBICIDE

CC - GROWTH REGULATOR

SO - GISAAA Giscena i Sanitaria, 31,28,66

TDKW- INHALATION;MAN;HUMANS;TCLo:10 mg/m3 ;TOXIC EFFECTS
GASTROINTESTINAL TRACT

Here, too, the user is cautioned about interpretation of the search results and is reminded that the use classification is assigned based only on references cited in RTECS.

(continued next page)

Finally, the user may wish to use the Classification Code (CC) field as a pointer, including it in a preliminary online RTECS print for a substance or group of substances and using the terms that are found in this field to determine what other parts of the record might serve his particular needs. For example:

SS 1 /0?

USER:

(sv) vinyl chloride

PROG:

SS (1) PSTG (1)

SS 2 /0?

USER:

prt include cc

PROG:

SI - NIOSH/KU9625000

N1 - ETHYLENE, CHLORO-

RN - 75-01-4

CC - AGRICULTURAL CHEMICAL

CC - TUMORIGEN

CC - MUTAGEN

CC - TERATOGEN

CC - UNCLASSIFIED

SS 2 /0?

USER:

(ix) mutation and i

PROG:

SS (2) PSTG (1)

SS 3 /0?

USER:

prt toxdata

PROG:

SI - NIOSH/KU9625000

N1 - ETHYLENE, CHLORO-

RN - 75-01-4

S0 - ARTODN Archives of Toxicology. 45,1,80

TDKW- MUTATION;SISTER CHROMATID EXCHANGE;HAMSTER;RODENTS;INHALATION
12500 PPM/6H

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - JANUARY 1982
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. 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. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

ADVANCES IN CLINICAL CYTOLOGY
 1,1981--
 BUTTERWORTH
 WOBURN MA UNITED STATES
 ON ORDER
 A13635300
 \$66.95

ANNUAL REVIEW OF CONTACT LENSES
 MAR 1981?--
 NEW ENGLAND COLLEGE OF OPTOMETRY
 UNITED STATES
 IN PROCESS
 A54042000

BROSCHURE DES FORSCHUNGSINSTITUTS FUR DIE
 ZAHNARZTLICHE VERSORGUNG
 1,1980--
 DEUTSCHER ARZTE-VERLAG
 KOLN-LOVENICH GERMANY, WEST
 IN PROCESS
 B36710000

CLINICAL PHARMACOLOGY AND THERAPEUTICS
 SERIES
 1,1981--
 PRAEGER
 EASTBOURNE SUSSEX ENGLAND
 PRAEGER PUBLISHERS, 521 FIFTH AVENUE, NEW
 YORK, N.Y., 10017
 IN PROCESS
 C26475000

CLOT
 1,1981--
 BARI ITALY
 PERIODICO SCIENTIFICO C/O
 FRONTERA, V. AMORUSO 60/A, 70124 BARI, ITALY
 IN PROCESS
 C27690000

COMPUTERS IN THE PRACTICE OF MEDICINE
 1,1980--
 ADDISON-WESLEY
 READING MA UNITED STATES
 W1 C04573
 C36450000

GENETIC ENGINEERING
 1,1981--
 ACADEMIC PRESS
 LONDON ENGLAND
 ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW
 YORK, NY 10003
 IN PROCESS
 G04565000

HEARING RESEARCH AND THEORY
 1,1981--
 ACADEMIC PRESS
 NEW YORK UNITED STATES
 111 FIFTH AVE., NEW YORK, NY 10003
 IN PROCESS
 H09370000
 \$29.00

INTERDISZIPLINARE GERONTOLOGIE
 1,1981--
 WERK VERLAG DR. EDMUND BANASCHEWSKI
 MUNCHEN GERMANY, WEST
 IN PROCESS
 I19285000

IM LARC MEDICAL
 IN1, OCT 1981--
 LARC MEDICAL
 CONTINUES LILLE MEDICAL.
 LILLE FRANCE
 LARC MEDICAL, 19 BIS, RUE D INKERMANN,
 59000 LILLE, FRANCE
 IN PROCESS
 L02370000

SEMINARS IN DERMATOLOGY
 IN1, MAR 1982--
 THIEME STRATTON
 NEW YORK UNITED STATES
 ON ORDER
 S19210000
 \$65.00

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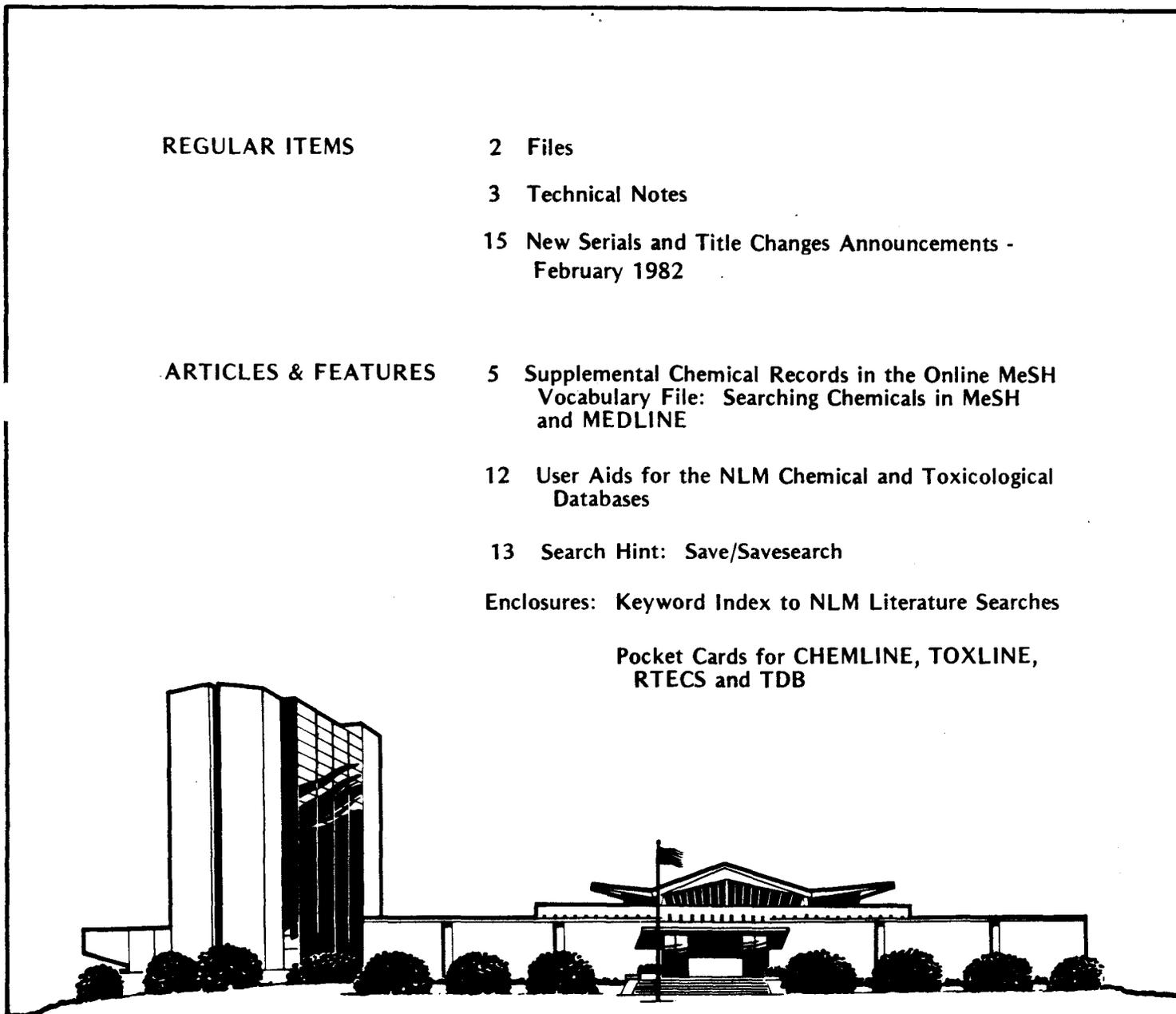
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*AVLINE	10,603	THROUGH 1982	29 MAR 82	
*BIOETHICS	12,934	JAN 73-DEC 81	10 MAR 82	8203(EM)
*CANCERLIT	290,793	JAN 63-MAR 82	22 MAR 82	8203(EM)
*CANCERPROJ	21,117	1978-1981	12 NOV 81	8110(EM)
*CATLINE	395,602	THROUGH 1982	29 MAR 82	
*CHEMLINE	525,805		15 MAR 82	8203(EM)
*CLINPROT	2,990		03 FEB 82	8201(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
HEALTH	198,360	JAN 75-APR 82	15 MAR 82	8204(EM)
*HISTLINE	49,496		25 MAR 82	8203(EM)
MEDLINE	463,049	JAN 80-APR 82	08 MAR 82	8204(EM)
MED79	264,528	JAN 79-DEC 79	14 DEC 81	
MED77	510,972	JAN 77-DEC 78	14 DEC 81	
+MED75	642,934	JAN 75-DEC 76	14 DEC 81	
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MESH VOC	43,331	1982	29 MAR 82	
*NAME AUTH	126,952		22 MAR 82	
*POPLINE	99,194	1970-MAR 82	15 MAR 82	8203(EM)
*RTECS	50,430	1979 ED.-JAN 82	15 MAR 82	
SDILINE	22,130	APR 82	08 MAR 82	
*SERLINE	38,949	1982	29 MAR 82	
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CBAC	309,867	1977-VOL 35(4)		
TOXBIB	103,226	1977-APR 82		
IPA	26,545	1977-VOL 19(1,2)		
HEEP	57,724	1977-VOL 11(4)		
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HEEP	29,662	1971-1973		
HAPAB	12,966	1966-1973		
HAYES	10,039	1940-1966		
TMIC	4,552	1971-1975		

1) * = NLM ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

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TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the Online Services Reference Manual 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.

NAME AUTHORITY FILE ACCESS (Manual, Part 10.2) - To access the NAME AUTHORITY FILE, users can now issue the command FILE NAF. FILE NAME and FILE NAME AUTHORITY FILE are still appropriate commands used to enter this database.

POPULATION INDEX DATA IN POPLINE - Beginning with the March 15, 1982 POPLINE update, data from the Population Index will be added to the file. Population Index, an annotated bibliographic journal, is produced at the Office of Population Research of Princeton University. With the addition of this data, the scope of POPLINE is increased to include comprehensive coverage of the demographic literature. The initial 15,123 records added with this update cover the issues of Population Index published from 1979 through the first quarter of 1981.

FOREIGN TITLES ON SUNY OFFPRINTS - Foreign-language citations printed offline on the SUNY computer can now be distinguished from English-language citations by the parentheses surrounding the title. Note that foreign language citations printed offline on the NLM computer will continue to be distinguished by brackets around the titles.

MISDIRECTED ILLs - ILL librarians may notice that they have been losing photocopied interlibrary loans that have been received from NLM. Some librarians, after removing the ILL request forms, are forwarding the ILL photocopies to their patrons in the same envelopes that NLM uses for the initial mailing. The libraries' mail rooms then place these franked envelopes with the outgoing mail and they are returned to NLM marked "Return to Sender." Since the request forms have been removed, NLM is unable to mail the ILLs again. It is recommended that librarians either completely mark out the NLM return address and the franking, or use a different envelope for internal routing.

"KEYWORD INDEX TO NLM LITERATURE SEARCHES" - A revised "Keyword Index to NLM Literature Searches" is enclosed with this issue. Copies of the Literature Searches listed may be obtained at no charge by writing to:
 Literature Search Program, Reference Section
 National Library of Medicine
 8600 Rockville Pike
 Bethesda, Maryland 20209
 The name of the requester, typed on a gummed label, must accompany the request (no return postage necessary).

POCKET CARDS - Pocket cards for CHEMLINE, TOXLINE, RTECS, and TDB are
FOR CHEMLINE, enclosed with this issue. See the article on page
TOXLINE, RTECS, for additional information.
AND TDB

PLEASE TYPE NEWS TO SEE MOST RECENT NEWS ITEMS ONLINE

NEW AUTOMATIC SDI FEATURES

Carolyn B. Tilley, MEDLARS Management Section, NLM

Two new features that should directly aid the searcher have been added recently to NLM's Automatic SDI service. First, Automatic SDI searches will now print out in alphanumeric order by searchname for each user ID code. Sorting by searchname will mean that Automatic SDI printouts will print in ascending order by the entire stored searchname (remember that the special prefix is included as part of the name). For example, printouts from SDILINE will be printed out in the following order:

S001 HEART
S042 LIVER
S701 INFANT NUTRITION
S702 ANIMAL NUTRITION
S702 LEARNING DISORDERS

Automatic SDI printouts for the TOXLINE, CANCERLIT, and HEALTH PLANNING AND ADMINISTRATION databases will also be printed out in order by searchname. This program change is designed to expedite your separation and distribution of prints to your patrons. Because of this change in printout processing, regular offsearches will print out in taskname order rather than in groupings by backfiles. It is expected that this will make your job of distributing regular offprints easier and should help MMS in separation of printouts and maintenance of user statistics.

The second new feature added to the Automatic SDI service is a statement that will appear on the address information sheets for each printout indicating the database and the entry month searched. (Incidentally, these cover sheets do not count in your page charges.) An example of the statement that will appear on printouts of Automatic SDIs from SDILINE is:

```
*****  
NLM AUTOMATIC SDI PROGRAM --- SDILINE DATABASE --- 8205 (ENTRY MONTH)  
*****
```

Occasionally, Automatic SDI searches may be run twice during one month, which might create some confusion upon receipt of the Automatic SDI printouts. The new cover sheet message should eliminate any confusion and readily identifies the update month for each search.

SUPPLEMENTAL CHEMICAL RECORDS IN THE ONLINE MESH VOCABULARY FILE:
 SEARCHING CHEMICALS IN MESH AND MEDLINE
 Ruth L. Stander, Index Section, NLM

In early 1980 the Supplemental Chemical Records were established as a third record type in the online MeSH Vocabulary File. These 20,000 records, which were originally housed in a manual card file in the Index Section, have been identified in indexed MEDLINE journals since 1970 but were not used frequently enough to qualify as MeSH descriptor terms. The Chemical Records subset of MeSH, which at the present time numbers approximately 28,000 records, became searchable in MEDLINE in June 1980. New chemical records are added to the MeSH File as chemicals and biologicals are identified during the indexing process. No attempt has been made to insert data retroactively into citations included in MEDLINE before 1980. The chemical subset of the vocabulary file, however, contains bibliographic information for chemicals identified between 1970 and 1980. The chemical records in MeSH are periodically updated to reflect new information obtained from MEDLINE journals, from authoritative references, and as a result of changes made in the descriptor records in MeSH. Chemical Abstracts Service Registry Numbers, hereinafter referred to as RN, and Enzyme Commission Numbers, abbreviated as EC in this article, are added and updated by referring to the most recently regenerated version of CHEMLINE and the latest edition of Enzyme Nomenclature.

STRUCTURE OF THE SUPPLEMENTAL CHEMICAL RECORD IN THE MESH VOCABULARY FILE

Part 6.7.3 of the forthcoming 1982 edition of the NLM Online Services Reference Manual provides the unit record for chemicals in the MeSH Vocabulary File; Part 6.8 includes a description of each of the specific data elements involved in the chemical records in the file. A unit record and brief definitions of the more important data elements are given below:

1
 NI - FENCAMFAMINE
 RN - 1209-98-9
 SY - 2-ETHYLAMINO-3-PHENYLNORCAMPHANE
 SY - REACTIVAN
 SY - N-ETHYL-3-PHENYLBICYCLO(2.2.1)HEPTAN-2-AMINE
 NI - BICYCLO(2.2.1)HEPTAN-2-AMINE, N-ETHYL-3-PHENYL-
 HM - #NORBORNANES
 PA - ANALEPTICS
 PA - TRANQUILIZING AGENTS, MAJOR
 DA - 790101
 MR - 800122
 MR - 820115
 RO - M:MEG
 RO - M:RLS
 RO - M:RLS
 SO - PSYCHOPHARMACOLOGY 63(3):281:1979
 SO - ACT NERV SUDER (PRAHA) 1979:21(3):187
 SO - BR J CLIN PHARMACOL 1980:9(2):195
 TH - MERCK INDEX, 9TH ED, P. 518, #3893
 TH - NEGWER, 5TH ED, #2426
 TH - USAN 1978, P. 129 - HCL
 FR - 6
 NO - RN IN CHEMLINE FOR HCL: 2240-14-4
 RY - C
 UI - 20900

(1) Name of Substance (NM)

This is the main entry for the chemical compound. Wherever possible, the generic name of the chemical as given in United States Adopted Names (USAN), Merck Index, or International Nonproprietary Names (INN) is used. For enzymes, the name adopted by the Commission on Biological Nomenclature of the International Union of Pure and Applied Chemistry and published in Enzyme Nomenclature is used. This data element is directly and name fragment searchable in MeSH and MEDLINE. It is displayed in all standard PRINT commands.

(2) Chemical Abstracts Service Registry Number/EC Number (RN)

This field contains either the RN or the EC number. There are two exceptions: 1) if an RN or EC Number is not available, the number zero is put into the RN field; 2) if the NM is a salt or stereoisomer of a given compound, the RN field carries the RN for the parent compound and not the particular salt or stereoisomer. RNs for salts and stereoisomers of the compound, which have been found in CHEMLINE, are listed in the Note (NO) field. RNs in the Note (NO) field are not searchable in either MeSH or MEDLINE. EC Numbers may be 1, 2, 3, or 4 digits depending on the degree of characterization of the enzyme. Example: EC 2.- or EC 2.6.- or EC 2.6.1.- or EC 2.6.1.4. (N.B.: EC must be included with the number in the search statement; only a four-digit EC Number will retrieve a unique record.) This data element is directly searchable in MeSH or MEDLINE as follows:

RN SEARCH-- USER: 1209-98-9 (RN)
 EC SEARCH-- USER: EC 2.6.1.4 (RN)

It is displayed in all standard PRINT commands.

(3) Synonyms (SY)

This field contains synonyms for the Names of Substances (NM) that have been identified in indexed MEDLINE journals. These may also be structural names other than the CAS Type 1 Name (N1). No attempts have been made to supply all synonyms available; only those which have actually appeared in indexed journals are included. This data element is directly and name fragment searchable in the MeSH file only. It is displayed in all standard PRINT commands.

(4) Heading Mapped To (HM)

This field identifies the MeSH heading or MeSH heading/subheading combination under which citations on a given chemical will be located in the MH field in MEDLINE and/or in Index Medicus. If the MeSH heading is preceded by an asterisk, the citation may be found under this term in Index Medicus and the heading will appear in the MH field of the appropriate citation in MEDLINE. If the MeSH term in this field is not preceded by an asterisk, the heading will appear only in the MH field in MEDLINE and the citation will not appear in Index Medicus. This data element is directly searchable. It is displayed in all standard PRINT commands.

(5) Pharmacological Action (PA)

At the present time this field contains the pharmacological action, biological activity or function attributed to the chemical term in

indexed MEDLINE journals. These activities are displayed as MeSH headings (e.g., ANTIHYPERTENSIVE AGENTS) or as MeSH heading/subheading combinations (e.g., SUBSTANCE P/antag, ALLERGY/drug ther). It may also contain headings associated with or qualifying the term in the NM field, such as the identification of the microorganism from which a named toxin was isolated. This data element is directly and name fragment searchable in the MeSH file only.

(6) Source (SO) and Frequency (FR)

In the chemical term unit record, the Source field lists the bibliographic reference (journal title abbreviation, volume, issue, page, year) of the MEDLINE citation to the article that discusses the chemical. All listed Sources are to MEDLINE data entered before the automated chemical term records were implemented in the MeSH Vocabulary File, i.e., before 800211 (DA). The Frequency field is the number of times the chemical has been identified in MEDLINE journals. In most cases, the FR count does not equal the number of occurrences of the SO field. This is because the FR is the total count, or the SO field count plus the MEDLINE hits since the implementation of chemical term unit records.

(7) Date of Entry (DA)

The Date of Entry in the form YY0101 (e.g., 790101 for records created in 1979) appears in all records in the initial set of approximately 20,000 chemicals; these records were created before 800211. All records created after 800211 contain the exact DA for the year, month, and day the record was created. This data element is directly searchable and rangeable. It should be searched with the qualifier (DA). It is displayed in a PRINT DETAILED command.

RECORD CREATION AND FILE INTERACTIONS: Chemical Term Unit Record

A chemical record in the MeSH Vocabulary File originates primarily from chemicals noted by indexers during the process of indexing MEDLINE journals. After creation of the record, the supplemental chemical term is added when appropriate during indexing to the Index Citation Form along with appropriate subheading(s) and print designations and routed through the keyboarding cycle. After keyboarding, the indexed citation is validated against chemical records in the MeSH Vocabulary File during the input/edit routines. These programs extract the Name of Substance (NM), its RN or EC Number (RN) and MeSH headings taken from the HM field of the chemical term unit record and insert them into the RN and MH fields of the MEDLINE unit record as shown below.

<u>Input of Non-MeSH Heading Chemical Term on Index Citation Form</u>	<u>Chemical Term Unit Record in MeSH File</u>	<u>Output in MEDLINE Unit Record</u>
MH-	NM- FENCAMFAMINE	MH- NORBORNANES/*
MH-	RN- 1209-98-9	PHARMACODYNAMICS
NM- FENCAMFAMINE/*PHARM	SY- 2-ETHYLAMINO-3- PHENYLNORCAMPHANE	MH-
	SY- REACTIVAN	MH-
	SY- N-ETHYL-3-PHENYLBI- CYCLO(2.2.1)HEPTAN- 2-AMINE	RN- 1209-98-9 (FENCAMFAMINE)
	HM- *NORBORNANES	

RECORD CREATION AND FILE INTERACTIONS: Descriptor Unit Record

MeSH Category D headings (MH), which also carry RN/EC numbers in the MeSH Vocabulary File (main heading or descriptor record type as opposed to chemical term record type), print in two places on the MEDLINE unit record: 1) in the MH field with the appropriate subheadings and/or print designators, and 2) in the RN field as the Name of Substance after the RN/EC number. For example:

<u>Input of MeSH Descriptor on Index Citation Form</u>	<u>Descriptor Unit Record in MeSH File</u>	<u>Output in MEDLINE Unit Record</u>
MH-	MH- ACETAZOLAMIDE	MH- ACETAZOLAMIDE/*
MH-	RN- 59-66-5	PHARMACODYNAMICS
MH- ACETAZOLAMIDE/*PHARM	BX- DIAMOX...	MH-
	BX- DIACARB...	MH-
	BX- DIURAMIDE...	RN- 59-66-5

Group terms such as INDOLES or pharmacological action terms such as ANTIHYPER-TENSIVE AGENTS do not carry RNs and therefore do not appear in the RN field in MEDLINE.

The name fragment routine used in building and searching these records is the same as that used in the CHEMLINE programs; the format for entries in the RN field (with the exception of enzymes) is also that used in the CHEMLINE file.

SEARCHING SUPPLEMENTAL CHEMICAL RECORDS IN MESH

Directly searchable fields are:

- (1) Name of Substance (NM)
- (2) Registry/EC Number (RN)
- (3) Synonyms (SY)
- (4) Heading Mapped To (HM)
- (5) Pharmacological Action (PA)
- (6) Date of Entry (DA)
- (7) Major Revision Date (MR)
- (8) Frequency (FR)
- (9) Record Originator (RO)
- (10) Record Type (RY)
- (11) Unique Identifier (UI)

To retrieve a specific term (without obtaining multiple postings) the user can ask for either the Name of Substance, a Synonym, or the Registry/EC Number. A query using the Name of Substance or a Synonym will retrieve a record only if those specific terms are present in the MeSH chemical record, while a query using the Registry/EC Number will retrieve the record regardless of Name of Substance or Synonyms included in the record (exception: parent RN and not specific RN is used for salts and stereoisomers). For example, in a search for fencamfamine entering the terms FENCAMFAMINE or 2-ETHYLAMINO-3-PHENYLNORCAMPHANE or REACTIVAN or N-ETHYL-3-PHENYLBICYCLO(2.2.1)HEPTAN-2-AMINE will retrieve the desired record. However, if "euvitol," which is also a synonym for fencamfamine but is not present in the MeSH record, is entered in the search statement, the fencamfamine record is not retrieved. If the RN 1209-98-9 is entered in the search statement, the fencamfamine record will be retrieved regardless of the Name of Substance or Synonyms included in the record. For multi-term chemical names it is suggested that the Name Fragments (NF) be searched, as in the example on the following page.

SS 1 /C?
 USER:
 (nf) phenylbicyclo and amine
 PROG:
 SS (1) PSTG (2)

SS 2 /C?
 USER:
 prt compr
 PROG:

1
 NM - FENCAMFAMINE
 RN - 1209-98-9
 SY - 2-ETHYLAMINO-3-PHENYLNORCAMPHANE ; REACTIVAN ;
 N-ETHYL-3-PHENYLBICYCLO(2.2.1)HEPTAN-2-AMINE
 HM - #NORBORNANES
 PA - ANALEPTICS ; TRANQUILIZING AGENTS, MAJOR

MeSH descriptor records can be searched with the qualifier (TW) but not with the qualifier (NF); MeSH chemical term records can be searched with (NF) but not (TW). However, preceding the query with the word "all" will retrieve postings from either main heading descriptor records or supplemental chemical records.

Records which carry a zero in the RN field cannot be searched by Registry/EC Number.

SEARCHING CHEMICALS IN MEDLINE

Directly searchable elements in MEDLINE are:

- (1) The Name of Substance and Synonyms mapped to it, both with the qualifier (NM);
- (2) Name fragments (NF) of the Name of Substance only;
- (3) Registry or Enzyme Commission Numbers (RN). These numbers print in the composite RN field with the Name of Substance. The RN field is also displayed in response to the PRINT FULL command.

Example:

2
 AU - DELBEKE FT ; DEBACKERE M
 TI - DETECTION AND METABOLISM OF FENCAMFAMINE AND THE INFLUENCE OF ACETAZOLAMIDE ON ITS URINARY EXCRETION.
 LA - ENG
 MH - ACETAZOLAMIDE/#PHARMACODYNAMICS ; CHROMATOGRAPHY, GAS ; ELECTRONS ; HUMAN ; NORBORNANES/#METABOLISM/URINE
 RN - 1209-98-9 (FENCAMFAMINE) ; 59-66-5 (ACETAZOLAMIDE)
 SO - BIOPHARM DRUG DISPOS 1981 JAN-MAR:2(1):17-30

To retrieve records for fencamfamine, the searcher can enter either FENCAMFAMINE (NM), any of the three Synonyms found in the MeSH record with the qualifier (NM), or 1209-98-9. Analogous to searching chemical records in the MeSH file, entering a Synonym for a desired compound will only result in retrieval if the Synonym is in the MeSH chemical record. However, the RN 1209-98-9 will retrieve all citations for the compound. If a searcher has a compound for which the name cannot be found in the MeSH file, one may search CHEMLINE to obtain an RN and then enter the RN into a MEDLINE search. For example, if the searcher has only the name euvitol available, a search of the MeSH file fails to turn up any hits. The searcher may then enter euvitol in a CHEMLINE search. This will retrieve a record (see below) identifying the RN as 1209-98-9, containing the Synonyms (SY) euvitol and fencamfamine, and MEDLINE among the locators (LO). The RN may then be used to retrieve citations in a MEDLINE search.

Example of CHEMLINE retrieval:

```

1
RN - 1209-98-9
ON - 37335-75-4 (CAS)
MF - C15-H21-N
N1 - BICYCLO(2.2.1)HEPTAN-2-AMINE, N-ETHYL-3-PHENYL- (9CI)
SY - 2-NORBORNANAMINE, N-ETHYL-3-PHENYL- (8CI)
SY - 2-ETHYLAMINO-3-PHENYLBICYCLO(2.2.1)HEPTANE
SY - 2-ETHYLAMINO-3-PHENYLNORBORNANE
SY - 2-ETHYLAMINO-3-PHENYLNORCAMPHANE
SY - N-ETHYL-3-PHENYLBICYCLO(2.2.1)HEPTAN-2-AMINE
SY - N-ETHYL-3-PHENYL-2-NORBORNANAMINE
SY - EUVITOL
SY - FENCAMFAMIN
SY - FENCAMFAMINE
SY - FENCAMFAMINUM
SY - PHENCAMPHAMINE
SY - 2-PHENYL-3-ETHYLAMINOBICYCLO(2.2.1)HEPTANE
SY - 2-PHENYL-3-ETHYLAMINONORBORNANE
SY - 3-PHENYL-N-ETHYL-2-NORBORNANAMINE
SY - REACTIMERCK
LO - TOXLINE
LO - TOXBACK65
LO - TOXBACK74
LO - RTECS
LO - MEDLINE
    
```

Example of MEDLINE search:

```

SS 1 /C?
USER:
1209-98-9 (rn)
PROG:
SS (1) PSTG (3)
    
```

SS 2 /C?
 USER:
 prt ti, mh, rn, so 1, skip 1, comp
 PROG:

2
 TI - DETECTION AND METABOLISM OF FENCAMFAMINE AND THE INFLUENCE OF
 ACETAZOLAMIDE ON ITS URINARY EXCRETION.
 MH - ACETAZOLAMIDE/*PHARMACODYNAMICS ; CHROMATOGRAPHY, GAS ; ELECTRONS
 ; HUMAN ; NORBORNANES/*METABOLISM/URINE
 RN - 1209-98-9 (FENCAMFAMINE) ; 59-66-5 (ACETAZOLAMIDE)
 SO - BIOPHARM DRUG DISPOS 1981 JAN-MAR:2(1):17-30

The same results are achieved using REACTIVAN (NM) or one of the chemical names in the Synonym field in the MeSH record with the qualifier (NM) or the RN 1209-98-9. The N1 name is not directly searchable. MeSH descriptors which carry an RN/EC number in their MeSH record will also appear in the RN field in the MEDLINE record; they can be searched in MEDLINE either as MeSH Headings (MH) or entry terms, or by entering the RN/EC number, or as a chemical term (NM), but not by one of the entry terms to the MeSH Heading with the qualifier (NM). However, for terms appearing both as MH and NM, the default mode is MH. There is therefore no need to qualify a term when searching for it as an MH.

Example:

Acetazolamide in the record above can be searched as ACETAZOLAMIDE (MH), ACETAZOLAMIDE (NM) or by using its RN 59-66-5, but not by using its non-print entry terms DIAMOX, DIACARD or DIURAMIDE with the qualifier (NM). Group terms such as NORBORNANES or pharmacological action terms such as TRANQUILIZING AGENTS, MAJOR, which do not carry RNs in their MeSH records, will not appear in the RN field in MEDLINE. Biologicals or other terms in the MeSH chemical records for which RNs cannot be obtained from Chemical Abstracts will have the number zero followed by the Name of Substance in the RN field in MEDLINE, e.g., the term benzodiazepine receptor which has a zero in the RN field in MeSH will appear in MEDLINE as RN- 0 (BENZODIAZEPINE RECEPTOR) and can therefore only be searched as the term BENZODIAZEPINE RECEPTOR (NM) or as one of its synonyms with the qualifier (NM) but not by the use of a RN.

There are, therefore, five possible entry points for searching terms from the Supplemental Chemical Records in MEDLINE:

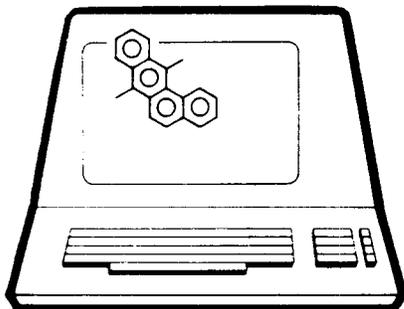
1. by Name of Substance (NM)
2. by RN/EC Number (RN)
3. by Synonym (NM)
4. by Text Word occurrence (TW)
5. by Name Fragments of Name of Substance (NF)

There are also five possible entry points for MeSH descriptor chemicals (Category D) in MEDLINE:

1. by MESH Heading (MH)
2. by Entry Term (MH)
3. by Name of Substance (NM)
4. by RN/EC number (RN)
5. by Text Word occurrence (TW)

USER AIDS FOR THE NLM CHEMICAL AND TOXICOLOGICAL DATABASES
 Miriam Perkins and Cynthia Gaines, Specialized Information Services, NLM

Three types of user aids produced by the Specialized Information Services (SIS) program of the National Library of Medicine are now available for use with the NLM chemical and toxicological databases (CHEMLINE, TOXLINE, RTECS, and TDB). These are user guides, available from NTIS; and information sheets and pocket cards, available from SIS free of charge. All of these use the symbol, shown to the left, of a 7,12-dimethylbenzanthracene molecule superimposed over a CRT terminal to signify biomedical information online. Four colors are used to differentiate the user aids for each database: blue is associated with CHEMLINE, green with TOXLINE, orange with RTECS, and red with TDB.



The user guides were produced to provide a convenient set of the four database chapters (CHEMLINE, TOXLINE, RTECS, and TDB) from the Online Services Reference Manual produced by MEDLARS Management Section (MMS). The user guides have been completely rewritten since the current edition of the Manual was released; the identical content will appear in the forthcoming 1982 edition of the Manual. The SIS user guides feature varied type sizes for headings and subheadings as well as bold face type for user input within the examples. Emphasis has been placed on ease of reading by generous spacing within the arrangement of each page. The set of guides has been issued in a loose-leaf binder titled NLM Chemical and Toxicological Files. Copies of the guides and binder were mailed in mid-October to all users having a combined usage in the NLM chemical and toxicological databases of one hour or more during a three month period. Copies of the user guides are also provided to searchers attending online training at NLM.

The information sheets (also known as fact sheets) give a short description of the databases, as well as cost, availability, and contact person. They will be revised semi-annually and issued in March and September. Copies of the information sheets were distributed with the October 1981 issue of the NLM Technical Bulletin.

The pocket cards serve as quick reference tools that give an overview of what is contained in each database; this includes the unit record, a description of each of the data elements, typical search strategies, cost, and availability. They will be revised yearly and issued every October. Pocket cards for CHEMLINE, TOXLINE, RTECS, and TDB are enclosed with this issue of the Bulletin.

As of April 1982, additional copies of the user guides, including the binder and section dividers, can be purchased through the National Technical Information Service (NTIS). The price is \$30.00; the order number is PB82-143215. For a limited time, this package will also include a pocket card for each database.

Additional copies of information sheets or pocket cards can be obtained from SIS. Please submit requests to Cynthia Gaines, SIS; Bldg. 38A, Rm 3N309; National Library of Medicine; Bethesda MD 20209. Phone 301/496-1131.

SEARCH HINT: SAVE/SAVESEARCH

Recently some searchers have destroyed their UUSF (Unified User Specification File) areas and therefore could not access the system until these were rebuilt by NLM staff. The UUSF area is connected to each user ID code used to access the system. The UUSF contains such items as password, pagelength, pagewidth, stored address, and saved searches. Below are a few hints that can help you to avoid saved search problems that can adversely affect your UUSF area:

1. Make sure your UUSF area always contains at least 10% free space. The best way to check for available space is to issue a SAVE LIST command before adding new SAVES or SAVESEARCHes. If the SAVE or SAVESEARCH area becomes full no further searches can be saved and the UUSF area may be destroyed temporarily if you attempt to add more SAVES.
2. When removing saved searches of either type, instruct the system to delete them one at a time, i.e.:

USER:

SAVE (searchname) REMOVE (carriage return)

PROG:

OK? (Y/N/C/ADDRESS)?

USER:

Y

(enter next searchname to be removed using the SAVE _____ REMOVE command followed by a carriage return).

Several users have had problems when they did not remove each SAVESEARCH one at a time.

3. Unless absolutely necessary, avoid stringsearching in SAVE and SAVESEARCH. Instead, use direct and, if possible, positive combinations. For example:

USE:

AND ENG (LA)

Some time overflows will be encountered using the Boolean AND rather than stringsearching for ENG; however, you can be more certain that your search will be properly executed in files containing the ENG (LA) element. For SAVE/SAVESEARCH, never use stringsearch for items that may be searched directly, even if there are fewer than 200 citations to stringsearch. An excellent rule of thumb is that if there is a choice between searching directly or stringsearching, direct searching is more efficient. This precaution is true for other storage mode searches including OFFSEARCH and STORESEARCH (especially Automatic SDI STORESEARCHes).

USE: Again, some time overflows will be encountered by
 AND HUMAN using the Boolean AND rather than stringsearching for
 HUMAN. However, to insure that your search is pro-
 perly executed, use direct searching.

More than one stringsearch in a saved search is especially dangerous
because this can yield incorrect retrieval results, especially when one
issues a stringsearch against a search statement that is itself the result
of a stringsearch.

SAVE/SAVESEARCH allows one to process search strategies in multiple files in
an efficient and time-saving manner, but certain conventions must be observed
that are not always necessary for non-storage mode searches. SAVE/SAVESEARCH
can ultimately help to save connect time if these few basic suggestions are
followed.

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - FEBRUARY 1982
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. 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. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

BEITRAGE ZUR PSYCHOPATHOLOGIE
 1,1981--
 SPRINGER
 BERLIN
 ON ORDER
 B03735000
 GERMANY, WEST

CORNEA
 1,1982--
 MASSON PUBLISHING USA
 NEW YORK
 ON ORDER
 C49110000
 UNITED STATES

DEVELOPMENTS IN MOLECULAR VIROLOGY
 1,1981--
 MARTINUS NIJHOFF
 HAGUE
 IN PROCESS
 D08364500
 \$60.40
 NETHERLANDS

EXCERPTA MEDICA. SECTION 37, DRUG
 LITERATURE INDEX
 12,1980--
 EXCERPTA MEDICA
 CONTINUES: DRUG LITERATURE INDEX.
 AMSTERDAM
 IN PROCESS
 E18650000
 NETHERLANDS

HEALTH POLICY SERIES
 1,1981--
 MARCEL DEKKER
 BASEL
 ON ORDER
 H07345500
 SWITZERLAND

INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES
 IN PRENATAL DIAGNOSIS
 1ST, 1980--
 JOHN WILEY AND SONS
 CHICHESTER
 ON ORDER
 I34280000
 \$46.95
 ENGLAND

JOURNAL OF CLINICAL LABORATORY AUTOMATION
 1N1, JUL/AUG 1981--
 APPLETON - CENTURY - CROFTS
 NEW YORK
 ON ORDER
 J16770000
 UNITED STATES

SURGICAL GASTROENTEROLOGY
 1,1982--
 MASSON PUBLISHING USA
 NEW YORK
 ON ORDER
 S48525000
 UNITED STATES

JOURNAL OF PROTEIN CHEMISTRY
 1,1982--
 PLENUM
 NEW YORK
 ON ORDER
 J36010000
 \$18.00
 UNITED STATES

KRANKENHAUS-HYGIENE AND INFEKTIONSVERHUTUNG
 1,1981--
 FISCHER AND PFLAUM VERLAG
 MUNCHEN
 ON ORDER
 K11890000
 \$25.90
 GERMANY, WEST

MAGNETIC RESONANCE IMAGING
 1N1, SPRING 1982--
 PERGAMON PRESS
 NEW YORK
 ON ORDER
 M01133000
 \$100.00
 UNITED STATES

MICROCIRCULATION (HAGUE)
 1,1981--
 MARTINUS NIJHOFF
 AN INTERNATIONAL JOURNAL SPONSORED BY THE
 EUROPEAN SOCIETY FOR MICROCIRCULATION
 HAGUE
 ON ORDER
 M34427000
 \$62.90
 NETHERLANDS

PROGRESS IN PESTICIDE BIOCHEMISTRY
 1,1981--
 WILEY
 NEW YORK
 ON ORDER
 P48555000
 \$53.00
 UNITED STATES

RECENT ADVANCES IN CLINICAL THERAPEUTICS
 1,1981--
 ACADEMIC PRESS
 CONTAINS PROCEEDINGS OF 3RD ANNUAL
 SYMPOSIUM ON RECENT ADVANCES IN CLINICAL
 THERAPEUTICS
 NEW YORK
 ON ORDER
 R05750000
 \$29.50
 UNITED STATES

KEYWORD INDEX TO NLM LITERATURE SEARCHES (77-1 -- 81-29)
 Charlotte Kenton
 Reference Section, NLM

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80-23	ABUSE Child
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79-10	ADOLESCENT alcoholism
79-13	ADOLESCENT Hypertension in the child or
78- 8	ADOLESCENT pregnancy
81-11	ADVERSE effects of cosmetics
78-17	ADVERSE effects of diazepam on the fetus and neonate
80-13	ADVERSE effects of intrauterine devices
78- 9	ADVERSE effects of oral contraceptives (Updates LS 74-20)
78-29	ADVERSE effects of prenatal exposure to diethylstilbestrol (DES)
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79- 4	ANTI-INFLAMMATORY analgesic Sulindac: an
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81-25	ARSENIC toxicology
79- 3	ARTHRITIS Hip or knee replacement in
79- 9	ARTHRITIS Psychological aspects of rheumatoid
77-14	ASBESTOS toxicity (Includes and updates LS 73-31)
80-11	ASSISTANTS Nurse practitioners and physicians'
81-27	AUDIOVISUAL aids, computer assisted instruction, and programmed instruction in education for the health professions (Updates LS 78-10,78-11,78-15,78-16,78-18,78-19,78-25)
78-25	AUDIOVISUAL aids, programmed instruction, and computer assisted instruction in allied health education (Updates LS 74- 8)
78-19	AUDIOVISUAL aids in dental education (Updates LS 74- 9)
78-10	AUDIOVISUAL aids in medical education (Updates LS 74- 6)
78-15	AUDIOVISUAL aids in nursing education (Updates LS 74- 7)
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77- 8	CANCER Platinum complexes in the treatment of
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81-14 ELDERLY Nutrition and the
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 78-27 MALPRACTICE The physician and
 77- 2 MAMMOGRAPHY
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 81- 8 MEDICAL graduates in the U.S. Foreign (Updates LS 79-14)
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 78-13 NEONATE, including the fetal alcohol syndrome (FAS) Maternal
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 78- 5 NERVOUS stimulation for control of pain
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 81- 1 NEUROBEHAVIORAL toxicology Occupational
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 80-11 NURSE practitioners and physicians' assistants
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 80-17 PARVOVIRUS (CPV) Canine
 80- 1 PASSIVE smoking
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 81-15 PHOTOTHERAPY for neonatal jaundice
 78-27 PHYSICIAN and malpractice The
 81-10 PHYSICIAN, including occupational risks The impaired
 80-11 PHYSICIANS' assistants Nurse practitioners and
 78- 3 PHYSICAL fitness in the rehabilitation of patients with
 cardiovascular disease Exercise therapy and
 80-21 PLASMIDS as vectors of antibiotic resistance
 77- 8 PLATINUM complexes in the treatment of cancer
 80-32 POLYBROMINATED biphenyl compounds Toxicology of
 80-26 POLYCHLORINATED biphenyl compounds Toxicology of
 79- 7 POPULATION control in developing countries
 80-11 PRACTITIONERS and physicians' assistants Nurse
 78- 8 PREGNANCY Adolescent
 78-23 PREGNANCY, or the newborn Smoking and reproduction
 78-29 PRENATAL exposure to diethylstilbestrol (DES) Adverse effects of
 81-27 PROFESSIONS Audiovisual aids, computer assisted instruction,
 and programmed instruction in education for the health
 78-25 PROGRAMMED instruction, and computer assisted instruction
 in allied health education Audiovisual aids (Updates LS 74- 8)
 78-18 PROGRAMMED instruction in dental education Computer
 assisted and (Updates LS 74- 9)
 81-27 PROGRAMMED instruction in education for the health professions
 Audiovisual aids, computer assisted instruction, and
 78-11 PROGRAMMED instruction in medical education Computer assisted
 and (Updates LS 74- 6)
 78-16 PROGRAMMED instruction in nursing education Computer
 assisted and (Updates LS 74- 7)
 80- 6 PSORIASIS therapy
 81-13 PSYCHIATRY and the elderly
 81-18 PSYCHOLOGIC aspects of cancer (Updates LS 77-17)
 78- 4 PSYCHOLOGICAL and socioeconomic aspects of kidney dialysis
 77-17 PSYCHOLOGICAL aspects of cancer (Updates LS 73-13)
 79- 9 PSYCHOLOGICAL aspects of rheumatoid arthritis
 81-12 PSYCHOLOGY of aging and the elderly
 81-22 RADIOGRAPHIC contrast media Adverse reactions to
 78-30 RECERTIFICATION or relicensure

77-15 RECOMBINANT DNA (Updates LS 76-25)
78- 6 RECOMBINANT DNA (Updates LS 77-15)
78- 3 REHABILITATION of patients with cardiovascular disease
Exercise therapy and physical fitness in the
80-29 REIMPLANTATION
78-30 RELICENSURE Recertification or
79- 3 REPLACEMENT in arthritis Hip or knee
78-12 REPLACEMENT therapy Estrogen
78-23 REPRODUCTION, pregnancy, or the newborn Smoking and
81-16 REPRODUCTIVE toxicology Male
80-21 RESISTANCE Plasmids as vectors of antibiotic
80- 4 RESUSCITATION (CPR) Cardiopulmonary
80-20 RETARDED Sexual sterilization of the mentally
78- 7 RETINOPATHY Photocoagulation in diabetic
78-26 REVERSAL Sterilization
80- 7 REYE'S syndrome
79- 9 RHEUMATOID arthritis Psychological aspects of
77-13 RIGHT TO DIE Euthanasia and the
81-10 RISKS The impaired physician, including occupational
81-17 ROTAVIRUS infections in infants and children
77- 9 SACCHARIN
78-22 SARCOIDOSIS (Updates LS 76-31)
81-20 SCANNING of the brain Computed tomographic
78-20 SCIATICA Chymopapain in the treatment of back pain and
81- 2 SCREENING and counseling Genetic
81-23 SELENIUM Adverse effects of
80-18 SELF-CARE
80-20 SEXUAL sterilization of the mentally retarded
81- 4 SHOCK syndrome Toxic & Suppl
77-11 SILICONE on the breast Effects of
78-23 SMOKING and reproduction, pregnancy, or the newborn
80- 1 SMOKING Passive
78- 4 SOCIOECONOMIC aspects of kidney dialysis Psychological and
79-11 SODIUM, food habits, and weight reduction Hypertension
-- role of body weight,
77- 7 SOLID tumors Bone marrow transplantation in leukemia and
80- 2 SPINAL cord injuries therapy and rehabilitation
80-20 STERILIZATION of the mentally retarded Sexual
78-26 STERILIZATION reversal
78- 5 STIMULATION for control of pain Transcutaneous
electrical nervous
81- 6 SUDDEN infant death syndrome (Updates LS 76-17)
79- 6 SUICIDE or depression in childhood and adolescence
80-31 SULFOXIDE Therapeutic use of dimethyl
79- 4 SULINDAC: an anti-inflammatory analgesic
80-12 SURGERY and the elderly
78-13 SYNDROME (FAS) Maternal alcohol use and effects on the
fetus and neonate, including the fetal alcohol
77- 1 SYNDROME Guillain-Barre
80- 7 SYNDROME Reye's
81- 6 SYNDROME Sudden infant death (Updates LS 76-17)
81- 4 SYNDROME Toxic shock & Suppl
79-17 TERRORISM or civil disorders
77- 6 THALLIUM toxicology
80-31 THERAPEUTIC use of dimethyl sulfoxide
79- 5 THERAPEUTIC use of marijuana
78-12 THERAPY Estrogen replacement
78- 3 THERAPY and physical fitness in the rehabilitation of
patients with cardiovascular disease Exercise
77-10 THRIVE Failure to
79- 1 THROMBOEMBOLIC disease prophylaxis Low-dose heparin in
81-20 TOMOGRAPHIC scanning of the brain Computed
81- 4 TOXIC shock syndrome & Suppl
77-14 TOXICITY Asbestos (Includes and updates LS 73-31)
81-25 TOXICOLOGY Arsenic
80- 9 TOXICOLOGY Benzene
77- 4 TOXICOLOGY Bismuth
81-24 TOXICOLOGY Chromium
81-16 TOXICOLOGY Male reproductive
81- 1 TOXICOLOGY Occupational neurobehavioral
80-32 TOXICOLOGY of polybrominated biphenyl compounds
80-26 TOXICOLOGY of polychlorinated biphenyl compounds
77- 5 TOXICOLOGY Ozone
77- 6 TOXICOLOGY Thallium
80- 8 TOXICOLOGY Vinyl chloride
78- 5 TRANSCUTANEOUS electrical nervous stimulation for
control of pain
79- 2 TRANSFER In vitro fertilization or embryo
81- 5 TRANSLUMINAL angioplasty Percutaneous
77- 7 TRANSPLANTATION in leukemia and solid tumors Bone marrow

81- 9 TRAVELER'S diarrhea
78-20 TREATMENT of back pain and sciatica Chymopapain in the
77- 8 TREATMENT of cancer Platinum complexes in the
77- 7 TUMORS Bone marrow transplantation in leukemia and solid
80-21 VECTORS of antibiotic resistance Plasmids as
78-28 VETERINARY medicine, and allied health professions Malpractice
in hospitals, dentistry, nursing, pharmacy,
80- 8 VINYL chloride toxicology
SBS 1980-1 VOLCANOES Biomedical effects of
79-11 WEIGHT, sodium, food habits, and weight reduction
Hypertension -- role of body

THE NLM TECHNICAL BULLETIN

REGULAR ITEMS

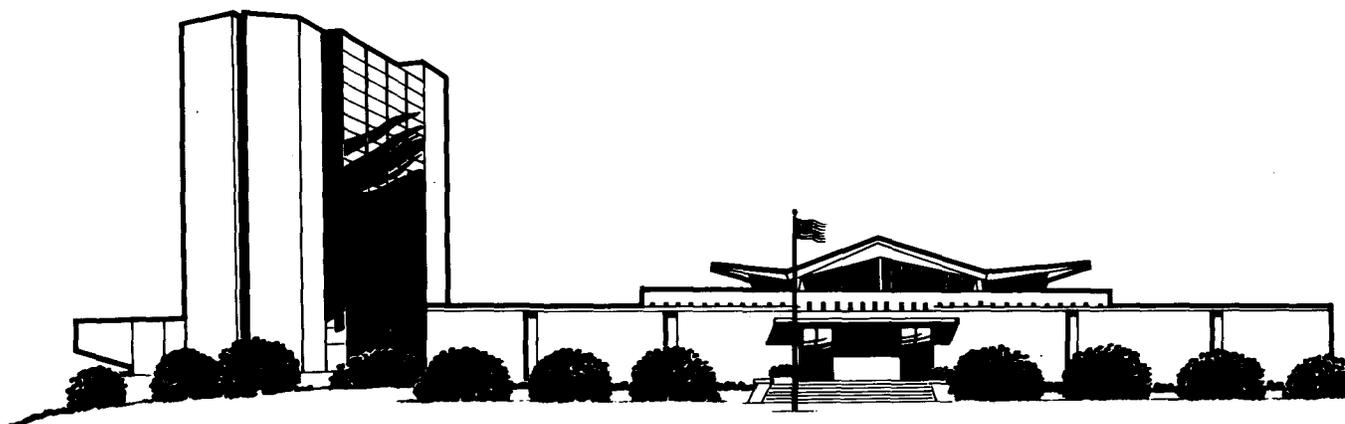
- 2 Files
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Appendix A Phones List

Enclosure: Map of Online Centers in the United States, March 1982



Contents Not Copyrighted • Freely Reproducible

DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	10,666	THROUGH 1982	23 APR 82	
*BIOETHICS	12,934	JAN 73-DEC 81	10 MAR 82	8203(EM)
*CANCERLIT	297,027	JAN 63-APR 82	27 APR 82	8204(EM)
*CANCERPROJ	21,117	1978-1981	12 NOV 81	8110(EM)
*CATLINE	396,940	THROUGH 1982	23 APR 82	
*CHEMLINE	525,805		15 MAR 82	8203(EM)
*CLINPROT	3,088		27 APR 82	8204(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
HEALTH	200,473	JAN 75-MAY 82	12 APR 82	8205(EM)
*HISTLINE	49,496		25 MAR 82	8203(EM)
MEDLINE	484,372	JAN 80-MAY 82	05 APR 82	8205(EM)
MED79	264,528	JAN 79-DEC 79	14 DEC 81	
MED77	510,972	JAN 77-DEC 78	14 DEC 81	
+MED75	642,934	JAN 75-DEC 76	14 DEC 81	
+MED72	669,105	JAN 72-DEC 74	14 DEC 81	
+MED69	668,257	JAN 69-DEC 71	14 DEC 81	
+MED66	501,801	JAN 66-DEC 68	14 DEC 81	
MESH VOC	43,568	1982	26 APR 82	
*NAME AUTH	128,389		20 APR 82	
*POPLINE	99,858	1970-APR 82	12 APR 82	8204(EM)
*RTECS	50,430	1979 ED.-JAN 82	15 MAR 82	
SDILINE	21,327	MAY 82	05 APR 82	
*SERLINE	38,949	1982	29 MAR 82	
*TDB	3,555		28 DEC 81	
*TOXLINE	405,645		24 APR 82	8204(EM)
CBAC	186,306	1979-VOL 96(6)		
TOXBIB	67,135	1979-MAY 82		
IPA (ASHP)	13,848	1979-VOL 19(3,4)		
HEEP	32,247	1979-VOL 11(5)		
PESTAB	8,209	1979-VOL 14(DEC 81)		
EMIC	34,796	1950-OCT 81		
ETIC	23,895	1950-OCT 81		
RPROJ	28,306	1979-FEB 82		
TD3	19,903	GRA & I 26(5,6)		
*TOXBACK74	474,653		19 APR 82	
CBAC	265,253	1974-1978		
TOXBIB	103,386	1974-1978		
IPA (ASHP)	30,606	1974-1978		
HEEP	61,871	1974-1978		
PESTAB	13,537	1974-1978		
+TOXBACK65	387,377		19 APR 82	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1969-1973		
HEEP	29,662	1970-1973		
HAPAB/PESTAB	12,966	1968-1973		
HAYES	10,039	1940-1968		
TMIC	4,552	1940-1973		

1) * = NLM ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

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 Bethesda, Maryland 20209

TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the Online Services Reference Manual 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.

LIST OF JOURNALS INDEXED IN INDEX MEDICUS, 1982

- The revised 1982 edition of the List of Journals Indexed in Index Medicus (LJI) is now available from the Superintendent of Documents, Government Printing Office, Washington, DC 20402. The cost is \$6.50 (domestic) or \$8.15 (foreign) and can be ordered using the stock number 017-052-00231-7.

NEW EXPLAINS AVAILABLE

- Three general information EXPLAINS have been added to the system as follows:

SUBJECT	COMMAND
Hours of ELHILL & MEDLEARN availability on the NLM & SUNY computers; MMS Service Desk hours	EXPLAIN HOURS
Charges for connect time, offprint pages, royalty fees and Automatic SDIs	EXPLAIN CHARGES (EXPLAIN PRICES or EXPLAIN COST are also valid)
Prime/Non-Prime Time	EXPLAIN PRIME TIME (EXPLAIN NON-PRIME TIME or EXPLAIN NON PRIME TIME are also valid)

PROCESSING PRINTS

- Offprints (offline prints and offsearch printouts) ordered on either the NLM or SUNY computer are processed that same evening and mailed the following working day (e.g., offprints requested on Friday are mailed on Monday).

The exception is that offprints ordered on the NLM computer on Saturday will be processed on Monday evening and mailed Tuesday.

POPLINE MESSAGE

- The POPLINE welcome message now contains the reminder that many of the items cited in the file are not available at NLM. Upon issuing the command, FILE POPLINE, the following message will appear:

YOU ARE NOW CONNECTED TO THE POPLINE FILE.
SOME ITEMS MAY NOT BE IN THE NLM COLLECTION;
PLEASE USE SERLINE OR CATLINE FOR AVAILABILITY INFORMATION.

NEW SECONDARY
SOURCE ID IN
CANCERLIT

- Herner & Company, a National Cancer Institute contractor responsible for inputting meeting abstracts into the CANCERLIT database, can now be identified in the SI (Secondary Source ID) field. These records are present from 1981 forward; e.g., HERN/81/00001 (SI). Note also that these meeting abstract citations will also contain "enrichment" indexing terms in the Keyword (KW) field.

CHANGES IN
CATLINE &
AVLINE

Upon regeneration of the CATLINE and AVLINE files, the following changes were made, effective March 29, 1982:

DATA ELEMENTS

Conference Name (CNA) - Conference names have been removed from the Corporate Name (CN) field and input into the CNA field where they were parsed into four subelements. These are: Conference Name Print Version/Conference Number/Conference Date/Conference Place. This field is directly searchable and each subelement is Text Word searchable. For example, the Conference Name (CNA)

CNA - Society for Developmental Biology. Symposium/39th/1980/Storrs, Conn./

can be searched with Text Words as follows:

(TW) DEVELOPMENTAL AND STORRS AND 39TH

Personal Name (PN) and Personal Name as Subject (PS) - The new format for these elements will contain the name qualifier in parentheses before the honorific, instead of following it, e.g.,

PN - Burnet, F. M./ (Frank Macfarlane)/Sir/1899-//

Main Entry Type (MT) - Two new values are: Conference Name Main Entry Type, directly searchable as F; and, Uniform Title Main Entry Type; directly searchable as U.

SEARCHING/PRINTING CHANGES

ISBN (BN) and ISSN (IS) numbers can be searched directly without appending a truncation (:) symbol.

PRINT CC - This print format has been expanded to include the new data elements and main entry types discussed above. If a main entry type is not valid, one of the following messages will appear: MAIN ENTRY TYPE IS MISSING, or MAIN ENTRY TYPE NOT, AS YET, SUPPORTED BY PRT CC. If either of these print out, please send a copy of the record print-out to Head, Cataloging Section, NLM.

--PLEASE TYPE NEWS TO SEE MOST RECENT NEWS ITEMS ONLINE--

NUMBER RANGES, PRINT ELEMENT OVERRIDES, AND VARIOUS
OTHER MATTERS RELATING TO THE AUTOMATIC SDI SERVICE
Patricia E. Pothier and Sheila T. Proudman
MEDLARS Management Section, NLM

With the implementation of tailored PRINT formats for all number ranges in the automatic SDI service at the beginning of 1982 (see NLM Technical Bulletin, December 1981, p. 6-7), it became apparent that some misunderstanding exists about the relationship between the number ranges and the elements of the citation that will be printed. The present article attempts to clarify this matter as well as some other problem areas noticed in regard to automatic SDIs.

NUMBER RANGES AND PRINT ELEMENT OVERRIDES

Searchnames for automatic SDI searches must include, as the first five characters of the name, a four-character alphanumeric code followed by a space. The first character is the letter that indicates the database to be searched: S for SDILINE, T for TOXLINE, C for CANCERLIT, and H for the Health Planning and Administration database. The three numbers immediately following the letter indicate which data elements of each citation the user wishes to be printed. The relationship between the various three-digit number ranges and the elements that will be printed is shown on the reverse of the Automatic SDI Service Request Form. This relationship is the same as that shown on the request form in Chapter 5 of the Online Services Reference Manual. (A revised form that includes the Health file was recently distributed with the Bulletin, December 1981.)

Two things must be remembered: 1) within each predefined number range for each database the same elements will be printed for all searches, and 2) you cannot override part of a number range. Both of these points are easier to explain by means of a hypothetical example.

Let us assume that five physicians in your institution want to receive monthly updates from SDILINE on the subject of recombinant DNA, but each of them wants to see the citations in a different degree of detail. Dr. One is satisfied with the bare bones of the citation, i.e., a STANDARD print of author, title and source. You store his search and call it S001 RECOMBINANT DNA DR ONE. All searches prefixed S001 through S200 will automatically print the author, the title and the source, so there is no need to inform MEDLARS Management of your print choice, since by selecting a number between 001 and 200 you have automatically informed the program. Similarly, if Dr. Two wants his search to print FULL with the author's address, the search must be numbered between S201 and S400. If Dr. Three wants to see the author, title, source, vernacular title, language, MeSH headings, abstract, and author's address, his search must be prefixed with a number between S401 and S600. If Dr. Four wants to see the author, title, source and abstract, his searches must be prefixed with a number between S601 and S700. Finally, if Dr. Five is not satisfied with any of the pre-set print formats, you can specify a tailored format by numbering his search in the series S701 through S800 and indicating on the SDI request form what elements he wishes to be printed.

Prior to 1982, this last situation was the only case in which it was proper to write anything on the lines that said 'specify print elements...' on the form. If a searcher had stored only searches with numbers lower than 701 and indicated a tailored print format (which previously was legal only for the S701-S800 range) he was not getting what he intended; the program was looking for non-standard print instructions only for searches in the S701-S800 series, and it did not find any such searches.

With the advent of the print element override capability, announced in the December 1981 NLM Technical Bulletin, it is possible for the user to remedy this situation. If, for instance, you stored searches with prefixes in the S201-S400 series and later discovered that you really had no need to see the MeSH headings but would like to see the language, you can submit a copy of the new automatic SDI service request form, indicating S201-S400 under the header NUMERICAL RANGE and AU, TI, SO, LA under the header PRINT ELEMENTS. BUT remember that this action overrides the normal print elements of the S201-S400 series for all searches so numbered. No search that has been or will be stored in that number series will display the MeSH headings. The override applies to the whole series; it is not possible to override the normal print elements for S201 through S300 while keeping them in effect for S301 through S400. It is all or nothing.

The procedures discussed above apply to all databases on which SDI service is available. The expressions STANDARD, FULL and DETAILED may refer to different print elements in the different databases; the user must consult the appropriate chapters in the Manual to make sure he is selecting the correct number range. The principles discussed apply to all databases.

OTHER IMPORTANT POINTS ABOUT SDI SEARCHNAMES

The first four characters of the searchname indicate the database to be searched and the print format. But there are other conventions, relating both to this part of the name and to the title portion of the searchname, that must be observed when naming searches.

First, the 30-character limit on searchnames includes the four-character alphanumeric prefix and the space following it.

Second, the alphanumeric prefix part of the search name must not have a space between the letter and the number: S001, not S 001.

Third, if the 30th character of the searchname is a space followed by more characters, the search will not be processed, and it can only be purged using the full (over 30 characters) name originally typed when storing the search.

Fourth, as the Online Services Reference Manual points out, searchnames may not be purely numeric and they may not contain the words AND or OR; such searches will not be processed. Searches also should not contain any characters other than letters and numbers. Although some special characters can be used in a search name (such as a period), as a general practice, avoid using any special characters such as hyphens, commas, periods, etc. in searchnames.

Fifth, if you store a search in the 701-800 series, you must notify MEDLARS Management as to which elements you want printed. Otherwise, the search program will execute the search, but the print program, lacking instructions, will be unable to print it.

Finally, no searches may be numbered higher than 800.

SOME OTHER IMPORTANT POINTS ABOUT AUTOMATIC SDI SEARCHES

There are several points about automatic SDIs other than number ranges and searchnames which, if carefully observed by the searcher, will greatly facilitate both the administration of the program and the processing of the searches.

1. Even though a copy of the new SDI Request Form was sent to all users, there is no need to return it unless you want to change your name or address, override the pre-set print elements for a number range, or have your printout sorted in some way other than by journal title abbreviation. You must also send in a form if you wish to initiate SDI service on a database for which you have not previously submitted a form. The rule is still one form for each database.
2. Once you have submitted a form for automatic SDI service on a given database, you do not need to send additional forms just because you store more searches to be run against that database. The form is only needed to establish the service; once the service is established, all properly named stored searches will be processed.
3. The box on the new form marked "change a previously submitted form" means exactly that. We can change any item of information you have supplied on a previous form; we cannot change either a search strategy or a searchname. To do that you must purge the search and reenter it.
4. If you receive, instead of a printout, a message such as GENTRM OVFL, PROCPSTG OVFL, STORPSTG OVFL, or STRINGSEARCH LIMIT EXCEEDED, do not ignore it. It implies that a program limit has been exceeded by your search strategy, and the search should be purged and reformulated so as to process fewer citations. Some users may wonder why they receive these messages for automatic SDIs run against CANCERLIT, TOXLINE, and the Health Planning and Administration file, even though the search strategy is essentially the same as one that ran successfully against SDILINE. Remember, SDILINE is a small database containing only the latest month of MEDLINE. The other files have no such separate segment for the latest update, so your strategy is processed against the entire file before its final result is ANDed with the current EM (Entry Month). If you ignore these messages month after month, you are making the program go through the same exercise over and over, thus needlessly increasing the processing time and ultimately delaying everybody's searches. For a list of the relevant program limits, see Section 5.10 STORESEARCH LIMITATIONS in the Online Services Reference Manual.

We have tried in this paper to clarify a few of the problems that have come to our attention regarding the automatic SDI service. We hope that users will not hesitate to call or write MEDLARS Management Section for assistance in any aspect of using the service.

TOXLINE REGENERATION
 Carolyn G. McHale, Specialized Information Services

A regenerated TOXLINE became available April 19, 1982. Many duplicate citations have been removed and the remaining citations have been redistributed between the TOXBACK74 and the TOXLINE files. There is one offline file, TOXBACK65 (pre-1965 through 1973) and two online files, TOXBACK74 (1974-78) and TOXLINE (1979-present plus the entire EMIC and ETIC subfiles). In addition to this restructuring, the ranging capability is now available in the TOXLINE/TOXBACK files. These modifications are explained below.

1. Duplicate Citations

Due to the subfile structure of TOXLINE, many duplicate citations occur in the file (some more than twice). Removal of most of these duplicate citations is accomplished during the regeneration process. A series of computer programs is used to identify and eliminate duplicate citations from only the TOXLINE file. This reduces the number of retrieved duplicate citations throughout the user's online and offline prints. However, all duplicates have not been eliminated:

- 1) When duplicate identification is questionable no deletion occurs
- 2) No EMIC or ETIC records have been deleted
- 3) TOXBIB subfile (from MEDLINE) duplicates have been retained with the abstract removed from the record; all other data elements including the Keyword field (KW), which contains the MeSH terms, have been retained for searching.

2. Backfiles

Citations for the primary publication years 1977 and 1978 have been placed in the TOXBACK74 file. Thus, TOXBACK74 contains bibliographic citations for publication years 1974 through 1978.

TOXBACK65 publication year coverage remains the same, pre-1965 through 1973. The individual subfile coverage period is revised to reflect a more accurate coverage.

<u>Subfile</u>	<u>Primary Publication Year Coverage</u>
TOXBIB	1965-1973
CBAC	1965-1973
IPAC	1969-1973
HEEP	1970-1973
HAPAB(PESTAB)	1968-1973
HAYES	1940-1968
TMIC	1940-1973

Approximately 3% of the file is from publication years prior to 1965; most of this is contained in the HEEP, HAYES and TMIC subfiles. There are a few citations in each of the subfiles prior to the given publication year coverage. Therefore, when ranging in the YR (Year) data element, use LESS THAN the given publication year coverage to retrieve those few citations from earlier years.

3. Subfile changes

The EMIC and ETIC subfiles have been completely replaced during this regeneration. The Environmental Mutagen and Environmental Teratology Information Centers at the Oak Ridge National Laboratory (ORNL) had previously enhanced the EMIC/ETIC databases and the TOXLINE regeneration was an opportune time to replace these subfiles and also include older records that were previously missing. Consequently, the entire EMIC/ETIC files are now contained in TOXLINE (EMIC - 34,796 records, ETIC - 23,895 records). All EMIC/ETIC records have the Entry Month (EM) of 8203. The EMIC subfile contains no abstracts, however KEYWORDS are available on the records. One enhancement to the EMIC/ETIC subfile is the indexing of the literature type, currently found in the Keyword (KW) field. Future plans are to place this information in the new Publication Type (PT) field. (At this time, indexed literature types cannot be placed in the PT field; please see the article on page 10 of this issue titled "Changes in the CBAC Subfile of TOXLINE" for a discussion of the new PT data element.) The following literature types identified by ORNL are now placed in the Keyword (KW) field:

Abstract	Note (non-copyrighted publication)
Book	Popular (scope info in popular press)
Book review	List (published list of references)
Chapter	Related paper
Collaborative study	Report (usually case reports on humans)
Dissertation	Report with data
Editorial	Symposium
Hypothesis (no data)	Review
Journal	Workshop
Letter	Patent
Methods	Epidemiological study
Meeting report	

The RPROJ subfile reflects the current toxicology and epidemiology research; therefore, the 1978 data, which is no longer timely, has been deleted. The RPROJ coverage of current research is 1979 to present. Remember, the last update to this subfile occurred in December 1981 (EM 8112). No time frame can be given for additional updates to this subfile.

The TD3 subfile remains in TOXLINE in its entirety. Since TD3 became a component of TOXLINE in February 1981, it was decided that all records, including those prior to 1979, should remain in the file until the next regeneration.

4. Ranging capability

The ranging capability has been added to all the TOXLINE files during regeneration. The two data elements searchable by ranging are the publication Year (YR) and the Entry Month (EM). A qualifier is required when ranging in the Entry Month (EM) data element. No citations will be retrieved if the EM qualifier is missing. Ranging will be useful to limit retrieval of a search topic to specific publication years or entry months.

Ranging has three formats:

1. FROM ___ TO ___

Retrieval includes the dates specified

FROM 74 TO 77 (YR)
FROM 8201 TO 8204 (EM)

2. LESS THAN ___

Retrieval excludes the date specified

LESS THAN 80 (YR)
 LESS THAN 8201 (EM)

3. GREATER THAN ___

Retrieval excludes the date specified

GREATER THAN 79 (YR)
 GREATER THAN 8201 (EM)

Please note the appropriate years of coverage when ranging in the TOXLINE, TOXBACK74 and TOXBACK65 files.

Following is a sample search in TOXLINE for citations concerning formaldehyde that have been published in 1979 and 1980:

SS 1/C? 50-00-0
 SS 2/C? FORMALDEHYDE OR FORMALIN OR FORMOL OR METHANAL
 SS 3/C? 1 OR 2
 SS 4/C? 3 AND FROM 79 TO 80 (YR)

CHANGES IN THE CBAC SUBFILE OF TOXLINE
 Carolyn G. McHale, Specialized Information Services

Three new data elements, Classification Code (CC), Publication Type (PT), and Corporate Name (CN), have been added to the TOXLINE file. Initially these data elements will be online in the CBAC subfile. In the future, they also will be incorporated into the structure of the other subfiles as applicable. Please be advised that searching these data elements at this time will limit retrieval to the CBAC records containing the Entry Month (EM) of 8202 and greater.

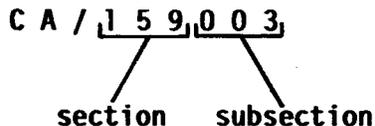
<u>Qualifier</u>	<u>Data Element</u>	<u>Search Status</u>	<u>SD</u>	<u>PRT FU</u>	<u>DL</u>
CC	Classification Code	*			X
CN	Corporate Name	*,TW	X	X	X
PT	Publication Type	*			X

* Directly searchable
 TW Text Word searchable

DEFINITION OF THE DATA ELEMENTS

1. Classification Code contains the Chemical Abstract Service's (CAS) Section/ Subsection. CAS has added a third digit to their section number, a leading "1". The old CAS section 59 now is identified as 159. This data element is directly searchable using the qualifier CC.

Example: SS 1/C? (CC) CA/159003



2. Corporate Name is used to identify the corporate author name when there is no personal author name available. A citation will never have both an Author and a Corporate Name. An example of a Corporate Name is:

CN - United States Environmental Protection Agency

The NBR command can be used to obtain the variations found in this data element. Remember that only a small number of citations currently contain this data element; therefore, multiple time overflows will occur when NBRing the CN specifically.

3. Publication Type identifies the standard types of citations indexed by CAS. The data element contains one of the following values:

MONOGRAPH
 THESIS
 JOURNAL ARTICLE
 PATENT
 TECHNICAL REPORT

CAS MODIFICATIONS

CAS has made changes in the section coverage and the format of information that are available to TOXLINE. Since 1975 the following sections have been in TOXLINE:

CA SECTIONS	SECTION TITLE (11th Col. Index Period)
101	Pharmacodynamics
102	Hormone Pharmacology
103	Biochemical Interactions
104	Toxicology
105	Agrochemicals
108	Radiation Biochemistry
159	Air Pollution & Industrial Hygiene
160	Sewage and Wastes
162	Essential Oils and Cosmetics
163	Pharmaceuticals
164	Pharmaceutical Analysis

With the beginning of the 11th Collective Index Period, January 1982, the narrative type abstracts will no longer be available for Sections 108, 159, and 160. In order to provide as much information as possible for the citations from these sections, text words from the CAS Keyword field, Concept Headings and Text Modification data fields will be placed into the Abstract (AB) field of the TOXLINE record. Therefore, this information will be searchable via Text Words (TW). Records in this format will first appear when the regenerated TOXLINE is available this April. (Please see the article on page 8 of this issue titled "TOXLINE Regeneration.")

With the 11th Collective Index Period, CAS also has made several changes in the categorization of toxicology-relevant information. Several new CA sections that contain toxicological information have been added. The content is being evaluated for complete relevancy. These new sections are:

CA SECTIONS	SECTION TITLE
114	Mammalian Pathological Biochemistry
117	Food and Feed Chemistry
118	Animal Nutrition
161	Water
171	Nuclear Technology

DATA ELEMENT CHANGES INCORPORATED INTO CBAC CITATIONS

Three directly searchable TOXLINE data elements not previously used by the CBAC subfile now contain information. These are:

CY COUNTRY
 IS INTERNATIONAL STANDARD SERIAL NUMBER
 ZP ZIP CODE

During regeneration this spring all citations in the CBAC subfile (volume 96, 11th Collective Index Period) that were added to TOXLINE in the 8202 and 8203 updates have been modified to include the new data elements. Therefore, all 11th Collective Index Period citations in the CBAC subfile has information in these data elements:

CC CLASSIFICATION CODE
 CN CORPORATE NAME (where applicable)
 CY COUNTRY
 IS INTERNATIONAL STANDARD SERIAL NUMBER
 PT PUBLICATION TYPE
 ZP ZIP CODE

AVLINE UPDATE: APRIL 1982
 Alice E. Jacobs, Cataloging Section, NLM

PUBLICATION NOTE

The NLM Current Catalog Proof Sheets now contain a new section, titled the Audiovisual Section, which includes new NLM cataloging records for audiovisuals. This section first appeared in issue No. 7, January 1982. As a separate section, the Audiovisuals Section and its monthly title index provide a timely and browsable tool for audiovisual acquisitions activities. This publication is available on subscription from the Medical Library Association (919 N. Michigan Avenue, Chicago, IL 60611).

CATALOGING NOTE

With the adoption of the Anglo-American Cataloguing Rules (2nd ed., 1978) in January 1981, NLM began applying the provisions for entry in Chapter 21, "Choice of Access Points," to audiovisual materials. The results of this change are: eighty-three percent (83%) of the 921 audiovisuals cataloged in 1981 were assigned title main entry and seventeen percent (17%) were assigned personal name main entry. This analysis shows that, while title main entry is no longer assigned exclusively as was prior NLM practice, cases which require title main entry continue to predominate where responsibility is divided or ambiguous.

PRODUCER REVIEWS

Although the final results and recommendations of the test phase discussed in a previous AVLINE update (see NLM Technical Bulletin, September 1981, p. 6) are not yet available, the National Library of Medicine, in cooperation with the Association of American Medical Colleges (AAMC), has made substantial progress in gathering assessment data for all audiovisuals cataloged prior to July 31, 1981 that were candidates for the review process. Thus far, in this final year of AAMC coordination of the AVLINE appraisal process, which ended March 31, 1982, a total of 788 review reports have been received and 449 titles were processed under the individual critical review mechanism. For the outstanding items where critical review information was not prepared, descriptive information was either solicited from the producer of the item or extracted from producer/distributor catalogs on file at NLM. Because of the variability of the information available from these sources, not all assessment data elements (i.e., health science fields, educational levels, specialties, and learning methods) were obtained for the approximately 339 titles processed in this manner to date. In such cases, NLM assigned the tag "undetermined" to indicate that the assessment data was not available from the producer source. The tag "undetermined" appears in the General Notes (GN) field of the AVLINE record and also as a searchable Review Data (RD) tag. An example of an AVLINE record augmented by descriptive information extracted from a producer catalog is provided on the next page. (Please note that this is a record cataloged under AACR1, as are many of the outstanding "Pending" titles.)

- 1
- MH - Accreditation*/videocassettes
- MH - Hospitals*/videocassettes
- MH - Informed Consent*/videocassettes
- MH - Patient Advocacy*/videocassettes
- MH - Patient Education*/videocassettes
- PN - Johnson, Robert L.////
- CN - American Hospital Association/
- TI - Professional, accreditation, and legal statements supporting patient education/N
- GMD - [Videorecordings]
- AS - / AHA ; produced by the Media Center.
- IM - [Chicago] ::American Hospital Assn.:[1977]
- CO - 1 cassette, 25 min. : sd., col. ; 3/4 in.
- GN - Available also as a slide set.
- GN - Audience level:
- GN - --#Allied health: undetermined.
- GN - --Specialty: hospital administration, jurisprudence.
- GN - Review date: Feb. 1982.
- GN - Learning method: Support.
- GN - Developed in part under contract NO 200-75-0542 with the Bureau of Health Education, CDC, and HEW.
- GN - Credits: Robert L. Johnson, et al.
- AB - (Producer) Documents on accreditation, informed consent, and patient's rights are reviewed. Their implications for patient education are considered.
- UI - 7900422A

'Undetermined' indicates that assessment data for educational level is not available from producer catalog

'Producer' indicates that the abstract has been extracted from producer catalog

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - MARCH 1982
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. 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. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

IM ACTA PATHOLOGICA, MICROBIOLOGICA ET IMMUNOLOGICA SCANDINAVICA. SECTION A: PATHOLOGY
90N1, JAN 1982--
MUNKSGAARD
CONTINUES ACTA PATHOLOGICA ET MICROBIOLOGICA SCANDINAVICA. SECTION A: PATHOLOGY.
COPENHAGEN DENMARK
MUNKSGAARD, INTERNATIONAL PUBLISHERS LTD.,
35 NORRE SOGADE, DK-1370 COPENHAGEN, DENMARK
IN PROCESS
A08026000

IM ACTA PATHOLOGICA, MICROBIOLOGICA ET IMMUNOLOGICA SCANDINAVICA. SECTION B: MICROBIOLOGY
90N1, FEB 1982--
MUNKSGAARD
CONTINUES ACTA PATHOLOGICA ET MICROBIOLOGICA SCANDINAVICA. SECTION B: MICROBIOLOGY.
COPENHAGEN DENMARK
IN PROCESS
A08027000

- IM ACTA PATHOLOGICA, MICROBIOLOGICA ET IMMUNOLOGICA SCANDINAVICA. SECTION C: IMMUNOLOGY
90N1, FEB 1982--
MUNKSGAARD
CONTINUES ACTA PATHOLOGICA ET MICROBIOLOGICA SCANDINAVICA. SECTION C: IMMUNOLOGY.
COPENHAGEN DENMARK
IN PROCESS
A08028000
- ALLERGY REVIEW
1N1, JULY 1981--
ALLERGY REVIEW
DENVER UNITED STATES
ON ORDER
A21635000
\$37.00
- AMERICAN HEALTH
1,1981--
AMERICAN HEALTH
NEW YORK UNITED STATES
AMERICAN HEALTH, 80 FIFTH AVENUE NEW YORK,
NEW YORK 10011
IN PROCESS
A23714400
- BASIC AND CLINICAL CARDIOLOGY
1,1981--
MARCEL DEKKER
NEW YORK UNITED STATES
MARCEL DEKKER, INC, 270 MADISON AVENUE, NEW
YORK, NEW YORK 10016
IN PROCESS
B01081000
- CLINICAL NUTRITION
1N1, MAR 1982--
CHURCHILL LIVINGSTONE
EDINBURGH SCOTLAND
ON ORDER
C21617000
\$90.00
- CLINICAL GERONTOLOGIST
1N1, FALL 1982--
HAWORTH PRESS
NEW YORK UNITED STATES
ON ORDER
C25605000
- DEVELOPMENTS IN NUCLEAR MEDICINE
1,1981--
NIJHOFF
THE HAGUE NETHERLANDS
KLWER ACADEMIC PUBLISHERS GROUP,
DISTRIBUTION CENTER, P.O. BOX 322, 3300 AH
DORDRECHT, THE NETHERLANDS
IN PROCESS
D08382000
- EUROPEAN JOURNAL OF SEXUALLY TRANSMITTED DISEASES
1N1, MAR 1982--
CHURCHILL LIVINGSTONE
EDINBURGH SCOTLAND
ON ORDER
E16290000
\$90.00
- IM GRAEFES ARCHIVE FOR CLINICAL AND EXPERIMENTAL OPHTHALMOLOGY
218N1, 1982--
SPRINGER-VERLAG
CONTINUES: ALBRECHT VON GRAEFES ARCHIV FUR KLINISCHE UND EXPERIMENTELLE OPHTHALMOLOGIE.
BERLIN GERMANY, WEST
W1 6R139M
G11070000
- IM JOURNAL OF CELLULAR BIOCHEMISTRY
18N1, 1982--
ALAN R LISS
RUNNING TITLE: JCB. CONTINUES: JOURNAL OF SUPRAMOLECULAR STRUCTURE AND CELLULAR BIOCHEMISTRY.
NEW YORK UNITED STATES
W1 J0579C
J15490000
- IM JOURNAL OF CELLULAR BIOCHEMISTRY. SUPPLEMENT
6, 1982--
ALAN R LISS
CONTINUES JOURNAL OF SUPRAMOLECULAR STRUCTURE AND CELLULAR BIOCHEMISTRY. SUPPLEMENT.
NEW YORK UNITED STATES
IN PROCESS
J15491000
- IM JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY
40N1, JAN 1982--
W. B. SAUNDERS
CONTINUES JOURNAL OF ORAL SURGERY.
PHILADELPHIA UNITED STATES
IN PROCESS
J33030000
- PRATIQUE MEDICALE
1, 1982--
MASSON
CONTINUES PSYCHIATRIE DU PRATICIEN, GYNECOLOGIE OBSTETRIQUE DU PRATICIEN, AND DERMATOLOGIE DU PRATICIEN.
PARIS FRANCE
ON ORDER
P22710000

PHONES LIST

UNLESS OTHERWISE NOTED, THE SPEED OF THE NUMBERS IS 10-30 CHARACTERS PER SECOND (CPS).

* = DIRECT DIAL NUMBER

FOR 120 CPS USE COMPATIBLE MODEMS INCLUDE:

V3405 = VADIC 3400 SERIES COMPATIBLE. THE FOLLOWING VADIC EQUIPMENT IS COMPATIBLE: VA3455P AND VA3451P MODEMS AND VA3434 COUPLER. THE FOLLOWING ANDERSON JACOBSON EQUIPMENT IS COMPATIBLE: AJ1255 MODEM AND AJ 1234 COUPLER.

B/V = VADIC SUPER MODEM (V3467) NODE. USERS WITH BELL 103, 113, OR 212A MODEMS OR V3400 SERIES COMPATIBLE MODEMS MAY USE THESE NUMBERS. NOTE: BELL 103 AND 113 ARE LOW SPEED MODEMS.

B202 = INDICATES NODE IS BELL 202C OR 202S DATA SET COMPATIBLE.

B212A = BELL 212A DATA SET COMPATIBLE.

FOR IBM 2741 TERMINAL ACCESS:

B = INDICATES THAT BOTH CORRESPONDENCE AND EBCDIC CODED TERMINALS ARE SUPPORTED BY TYMNET. THE USER MUST TYPE A P FOLLOWED BY A CARRIAGE RETURN SO THAT TYMNET CAN DETERMINE THE "CODE" TO BE USED. USE CORRECT TERMINAL IDENTIFIER FOR TELENET ACCESS VIA 2741'S. THE NETWORKS DO NOT SUPPORT BCD CODED 2741'S.

ALL PHONE NUMBERS ARE SUBJECT TO CHANGE OR DELETION WITHOUT PRIOR NOTICE.

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
AK	ANCHORAGE	CONTACT ALASKA TELEPHONE COMPANY FOR ACCESS					
AK	JUNEAU	CONTACT ALASKA TELEPHONE COMPANY FOR ACCESS					
AL	BESSEMER				205/326-3420	B/V	120
AL	BIRMINGHAM	205/942-4141	B/V	120	205/326-3420		
AL	BIRMINGHAM				205/326-3420	B/V	120
AL	FLORENCE				205/766-9101	B/V	120
AL	HUNTSVILLE	205/539-5377	FX B		205/539-2281		
AL	HUNTSVILLE	205/539-3753	FX B/V	120	205/539-2281	B/V	120
AL	MOBILE	205/432-3382	B/V	120	205/432-1680	B/V	120
AL	MONTGOMERY	205/834-3410	FX B		205/265-1500		
AL	MONTGOMERY				205/265-1500	B/V	120
AL	SHEFFIELD				205/766-9101	B/V	120
AR	FT. SMITH	501/782-3210	B/V	120			
AR	JONESBORO	501/932-6886	B212A	120			
AR	LITTLE ROCK	501/372-5780	FX B		501/374-4100		
AR	LITTLE ROCK	501/376-3768	B212A	120	501/372-4616	B/V	120
AR	SPRINGDALE	501/756-2201	B/V	120			
AZ	MESA				602/254-0244	B/V	120
AZ	PHOENIX	602/254-5811	B				
AZ	PHOENIX	602/254-5811	B/V	120	602/254-0244	B/V	120
AZ	SCOTTSDALE				602/254-0244	B/V	120
AZ	TEMPE				602/254-0244	B/V	120
AZ	TUCSON	602/790-0764	B		602/745-1666		
AZ	TUCSON	602/747-4097	B/V	120	602/745-1666	B/V	120
CA	ALHAMBRA	213/572-0999	FX B		213/956-8235		
CA	ALHAMBRA	213/280-1103	FX B212A	120	213/507-1006	B/V	120
CA	ANAHEIM				714/558-6061		
CA	ANAHEIM				714/558-7078	B/V	120
CA	ANTIOCH	415/757-6855	FX B				
CA	ARCADIA	213/574-7636	FX B				
CA	ARCADIA	213/574-8834	FX B212A	120			
CA	BAKERSFIELD				805/327-8146		
CA	BAKERSFIELD				805/327-8146	B/V	120
CA	BURLINGAME	415/348-4992	FX B		415/595-0360		
CA	BURLINGAME	415/583-6950	FX B212A	120	415/591-0726	B/V	120
CA	CANOGA PARK				213/822-9287		
CA	CANOGA PARK				213/306-2984	B/V	120
CA	COLTON	714/825-9372	B		714/824-1710		
CA	COLTON	714/824-8170	B212A	120	714/824-9000	B/V	120
CA	CUPERTINO	408/446-7309	B212A	120			

CA SANTA ANA				714/558-6061	
CA SANTA ANA				714/558-7078 B/V	120
CA SANTA BARBARA	805/682-9641	FX B		805/682-5361	
CA SANTA BARBARA	805/682-9641	FX B/V	120	805/682-5361 B/V	120
CA SANTA CLARA				408/279-8450	
CA SANTA CLARA				408/279-2425 B/V	120
CA SANTA CRUZ	408/426-8400	FX B/V	120		
CA SANTA MONICA				213/822-9287	
CA SANTA MONICA				213/306-2984 B/V	120
CA SANTA ROSA	707/546-1050	B			
CA SANTA ROSA	707/546-6776	B212A	120		
CA SUNNYVALE				408/279-8450	
CA SUNNYVALE				408/279-2425 B/V	120
CA TORRANCE				213/549-5150	
CA TORRANCE				213/548-6141 B/V	120
CA VAN NUYS	213/986-9503	FX B			
CA VENTURA	805/486-4811	B/V	120	805/656-6760 B/V	120
CA VENTURA				805/656-6760 B/V	120
CA VISTA	714/727-6011	FX B			
CA WALNUT CREEK	415/932-0116	FX B			
CA WEST COVINA	213/331-3954	B			
CA WEST COVINA	213/915-5702	FX B212A	120		
CA WOODLAND HILLS				213/992-0144	
CA WOODSIDE				415/856-9930	
CA WOODSIDE				415/856-9995 B/V	120
CO AURORA				303/773-8500	
CO AURORA				303/741-4000 B/V	120
CO AURORA				303/694-2710 B/V	120
CO BOULDER				303/773-8500	
CO BOULDER				303/741-4000 B/V	120
CO BOULDER				303/694-2710 B/V	120
CO COLO. SPRINGS	303/475-2121	FX B/V	120	303/634-5676	
CO COLO. SPRINGS				303/635-5361 B/V	120
CO DENVER	303/830-9210	B/V	120	303/773-8500	
CO DENVER	303/830-9116	V3405	120	303/741-4000 B/V	120
CO DENVER				303/694-2710 B/V	120
CO LAKEWOOD				303/773-8500	
CO LAKEWOOD				303/741-4000 B/V	120
CO LAKEWOOD				303/694-2710 B/V	120
CT BRIDGEPORT	203/367-6021	B/V	120		
CT DANBURY	203/743-1340	FX B		203/794-9075	
CT DANBURY	203/743-1650	B212A	120	203/794-9075 B/V	120
CT DARIEN	203/655-8931	B			
CT DARIEN	203/655-7951	B212A	120		
CT FAIRFLD/BRDGPT	203/333-4926	B212A	120		
CT GREENWICH				203/357-1800	
CT GREENWICH				203/348-0787 B/V	120
CT HARTFORD	203/242-7140	B		203/522-0344	
CT HARTFORD	203/242-7417	B212A	120	203/247-9479 B/V	120
CT MILFORD				203/624-5954 B/V	120
CT NEW HAVEN	203/789-0579	B			
CT NEW HAVEN	203/787-1702	B212A	120	203/624/5954 B/V	120
CT STAMFORD				203/348-0787 B/V	120
CT WATERBURY	203/755-1153	FX B			
CT WEST HARTFORD				203/522-0344	
CT WEST HARTFORD				203/247-9479 B/V	120
DC WASHINGTON	202/442-3900	B			
DC WASHINGTON	703/841-0200	B		202/347-1400	
DC WASHINGTON	703/841-9560	B		202/783-2050	
DC WASHINGTON	703/734-3900	B			
DC WASHINGTON	301/770-1680	B			
DC WASHINGTON	703/841-9330	V3405	120	202/347-6093 B/V	120
DC WASHINGTON	703/734-8370	B212A	120	202/347-3061 B212A	120
DC WASHINGTON	703/442-7800	B212A	120		
DC WASHINGTON	703/841-3550	B212A	120		
DC WASHINGTON	703/442-3960	B/V	120	202/347-6757 B/V	120
DC WASHINGTON*	301/492-3150	BELL	30/120		
(AUTOM. SPEED DETECTOR - ENTER P (CR))					
DC WASHINGTON*	301/492-3142	B2025	120		
DC WASHINGTON*	301/492-3129	V3405	120		
DC WASHINGTON*	301/492-3132	V3405	120		
DC WASHINGTON*	301/492-3134	V3405	120		
DC WASHINGTON*	301/492-3135	V3405	120		
DE WILMINGTON	302/658-5261	FX B		302/454-7710	
DE WILMINGTON	302/658-8611	B212A	120	302/454-7710 B/V	120
FL CLEARWATER				813/323-4026 B/V	120
FL DAYTONA BEACH	904/252-4481	FX B			
FL FT LAUDERDALE	305/467-3807	B/V	120	305/764-4505 B/V	120
FL JACKSONVILLE	904/721-8100	B		904/356-2264 B/V	120
FL MELBOURNE	305/725-8011	FX B			

FL MELBOURNE	305/724-9972	B212A	120		
FL MIAMI	305/624-7900	B/V	120	305/371-4801	
FL MIAMI				305/371-4822	B/V 120
FL ORLANDO	305/851-3530	(30 CPS ONLY)		305/422-4088	
FL ORLANDO	305/859-7670	B212A	120	305/422-4088	B/V 120
FL PENSACOLA	904/434-0134	FX B/V	120		
FL ST PETERSBURG	813/535-6441	B		813/323-4026	
FL ST PETERSBURG	813/535-1446	B212A	120	813/323-4026	B/V 120
FL SARASOTA	813/365-3526	FX B212A	120		
FL TALLAHASSEE				904/224-6824	B/V 120
FL TAMPA	813/977-2400	B		813/224-9920	
FL TAMPA	813/977-2400	B212A	120	813/223-1088	B/V 120
FL W PALM BEACH	305/627-5410	FX B/V	120	305/833-6691	
GA ATLANTA				404/577-8911	
GA ATLANTA	404/659-1600	B212A	120	404/523-0834	B/V 120
GA MACON	912/236-1904	V3405	120		
GA SAVANNAH	912/352-7259	FX B		912/236-2605	
GA SAVANNAH	912/236-1904	FX B/V	120		
HI HONOLULU	CONTACT HAWAII TELEPHONE COMPANY FOR ACCESS(TELENET)				
HI HONOLULU	CONTACT WESTERN UNION INT'L FOR ACCESS(TYMNET)				
IA CEDAR RAPIDS	319/363-2482	FX B		319/364-0911	
IA CEDAR RAPIDS	319/363-9019	FX B212A	120	319/364-0911	B/V 120
IA COUNCIL BLUFFS				402/341-7733	
IA COUNCIL BLUFFS				402/341-7733	B/V 120
IA DAVENPORT	319/322-5642	FX B			
IA DAVENPORT	319/324-7197	B/V	120		
IA DES MOINES	515/288-6640	B		515/288-4403	
IA DES MOINES	515/288-8097	B212A	120	515/288-4403	B/V 120
IA IOWA CITY	319/354-7371	B			
IA IOWA CITY	319/354-9532	B212A	120		
IA WATERLOO	319/233-9227	B212A	120		
ID BOISE	208/343-4851	B		208/343-0611	
ID BOISE	208/344-4311	B212A	120	208/343-0611	B/V 120
IL ARLINGTON HTS				312/938-0500	
IL ARLINGTON HTS				312/938-0600	B/V 120
IL CHAMPAIGN				217/384-6428	
IL CHAMPAIGN				217/384-6428	B/V 120
IL CHICAGO	312/346-4961	B		312/938-0500	
IL CHICAGO	312/368-4700	B		301/938-0600	B/V 120
IL CHICAGO	312/368-4607	B			
IL CHICAGO	312/641-1630	B212A	120	312/938-0600	B/V 120
IL CHICAGO	312/372-0391	V3405	120		
IL CICERO				312/938-0500	
IL CICERO				312/938-0600	B/V 120
IL E. ST. LOUIS				314/421-4990	
IL E. ST. LOUIS				314/421-4990	B/V 120
IL FREEPORT	815/233-5585	B			
IL JOLIET	815/723-9854	B212A	120		
IL OAK PARK				312/938-0500	
IL OAK PARK				312/938-0600	B/V 120
IL PEORIA	309/673-2156	FX B		309/637-8601	
IL PEORIA				309/637-8570	B/V 120
IL ROCKFORD	815/398-6090	B			
IL SKOKIE				312/938-0500	
IL SKOKIE				312/938-0600	B/V 120
IL SPRINGFIELD	217/753-7905	B/V	120	217/753-1373	
IL SPRINGFIELD				217/753-1373	B/V 120
IL URBANA				217/384-6428	
IL URBANA				217/384-6428	B/V 120
IN EVANSVILLE	812/423-6885	FX B		812/424-5250	B/V 120
IN FT WAYNE	219/424-5162	FX B			
IN GARY				219/882-8800	
IN GARY				219/882-8800	B/V 120
IN HIGHLAND	219/836-5452	FX B			
IN INDIANAPOLIS	317/257-3461	B		317/635-9630	
IN INDIANAPOLIS	317/926-1253	B212A	120	317/634-5708	B/V 120
IN MARION	317/662-0091	FX B			
IN MERRILLVILLE	219/769-7254	FX B			
IN MISHAWKA				219/233-7104	B/V 120
IN OSCEOLA				219/233-7104	B/V 120
IN SOUTH BEND	210/233-4163	B		219/233-7104	B/V 120
KS KANSAS CITY	913/677-2833	B		816/221-9900	
KS KANSAS CITY	913/677-0707	B212A	120	816/221-9900	B/V 120
KS SHAWNEE MISSION	913/677-2833	B			
KS SHAWNEE MISSION	913/677-0707	B212A	120		
KS TOPEKA	913/233-0690	FX B		913/233-9880	
KS TOPEKA				913/233-9880	B/V 120
KS WICHITA	316/265-1241	B/V	120	316/262-5669	
KS WICHITA				316/262-5669	B/V 120
KY BOWLING GREEN				502/843-9026	B/V 120

KY FRANKFORT				502/875-3920 B/V	120
KY LEXINGTON	606/253-3463	B		606/233-0312	
KY LEXINGTON	606/253-3498	B212A	120		
KY LOUISVILLE	502/361-3881	B		502/589-7520	
KY LOUISVILLE	502/361-3821	B212A	120	502/589-5580 B/V	120
LA BATON ROUGE	504/292-4050	B		504/343-0753	
LA BATON ROUGE	504/292-2650	B212A	120		
LA LAFAYETTE	318/237-9500	B/V	120		
LA MONROE				318/387-6330	
LA NEW ORLEANS	504/524-4371	B/V	120	504/524-4094 B/V	120
LA SHREVEPORT				318/221-5833	
LA SHREVEPORT	318/688-4666	FX B212A	120	318/221-5833 B/V	120
MA ARLINGTON	617/482-4677	B			
MA ARLINGTON	617/482-5605	B		617/338-1400	
MA ARLINGTON	617/482-7035	B/V	120	617/338-7495 B/V	120
MA BOSTON	617/482-4677	B			
MA BOSTON	617/482-5605	B		617/338-1400	
MA BOSTON	617/482-7035	B/V	120	617/338-7495 B/V	120
MA BROOKLINE	617/482-4677	B			
MA BROOKLINE	617/482-5605	B		617/338-1400	
MA BROOKLINE	617/482-7035	B/V	120	617/338-7495 B/V	120
MA CAMBRIDGE	617/482-4677	B			
MA CAMBRIDGE	617/482-5605	B		617/338-1400	
MA CAMBRIDGE	617/482-7035	B/V	120	617/338-7495 B/V	120
MA CHICOPEE	413/781-6830	B		413/739-7221	
MA CHICOPEE	413/781-0145	B212A	120		
MA HOLYOKE	413/781-6830	B		413/739-7221	
MA HOLYOKE	413/781-0145	B212A	120		
MA LEXINGTON				617/863-1550	
MA LEXINGTON				617/863-1565 B/V	120
MA MEDFORD	617/482-4677	B			
MA MEDFORD	617/482-5605	B		617/338-1400	
MA MEDFORD	617/482-7035	B/V	120	617/338-7495 B/V	120
MA NEWTON	617/482-4677	B			
MA NEWTON	617/482-5605	B		617/338-1400	
MA NEWTON	617/482-7035	B/V	120	617/338-7495 B/V	120
MA QUINCY	617/482-4677	B			
MA QUINCY	617/482-5605	B		617/338-1400	
MA QUINCY	617/482-7035	B/V	120	617/338-7495 B/V	120
MA SOMERVILLE	617/482-4677	B			
MA SOMERVILLE	617/482-5605	B		617/338-1400	
MA SOMERVILLE	617/482-7035	B/V	120	617/338-7495 B/V	120
MA SPRINGFIELD	413/781-6830	B		413/739-7221	
MA SPRINGFIELD	413/781-0145	B212A	120		
MA WALTHAM	617/482-4677	B			
MA WALTHAM	617/482-5622	B		617/338-1400	
MA WALTHAM	617/482-3386	B212A	120	617/338-7495 B/V	120
MA WALTHAM	617/482-1854	V3405	120		
MA WORCESTER	617/754-9451	FX B			
MA WORCESTER	617/755-5601	B212A	120	617/755-4740 B/V	120
MD ANNAPOLIS	301/547-8100	B		301/266-6886	
MD ANNAPOLIS	301/685-2845	B212A	120		
MD BALTIMORE	301/547-8100	B		301/962-5010	
MD BALTIMORE	301/244-8959	B212A	120	301/727-6060 B/V	120
MD BETHESDA	703/841-0200	B		202/347-1400	
MD BETHESDA	301/770-1680	B			
MD BETHESDA	703/524-9215	B212A	120	202/347-3061 B212A	120
MD BETHESDA	703/841-9330	V3405	120	202/347-6093 B/V	120
MD COLLEGE PARK	703/841-0200	B		202/347-1400	
MD COLLEGE PARK	703/524-9215	B212A	120	202/347-3061 B212A	120
MD COLLEGE PARK	703/841-9330	V3405	120	202/347-6093 V3405	120
MD DUNDALK	301/547-8100	B		301/962-5010	
MD DUNDALK	301/244-8959	B212A	120	301/727-6060 B/V	120
MD ROCKVILLE	703/841-0200	B		202/347-1400	
MD ROCKVILLE	301/770-1680				
MD ROCKVILLE	703/524-9215	B212A	120	202/347-3061 B212A	120
MD ROCKVILLE	703/841-9330	V3405	120	202/347-6093 B/V	120
MD SILVER SPRING	301/770-1680	B			
MD SILVER SPRING	703/841-0200	B		202/347-1400	
MD SILVER SPRING	703/524-9215	B212A	120	202/347-3061 B212A	120
MD SILVER SPRING	703/841-9330	V3405	120	202/347-6093 B/V	120
MD TOWSON	301/547-8100	B		301/962-5010	
MD TOWSON	301/244-8959	B212A	120	301/727-6060 B/V	120
ME AUGUSTA				207/623-5136 B/V	120
ME PORTLAND	207/773-2029	FX B212A	120		
MI ANN ARBOR	313/665-2627	B		313/996-0351	
MI ANN ARBOR	313/662-8282	B212A	120	313/996-5995 B/V	120
MI BATTLE CREEK				616/968-0929	
MI BATTLE CREEK				616/968-0929 B/V	120
MI CADILLAC	616/775-1261	B/V	120		

MI DETROIT	313/963-3388	B		313/964-5538	
MI DETROIT	313/963-8880	B212A	120	313/964-2988 B/V	120
MI DETROIT	313/963-2353	V3405	120		
MI FLINT				313/233-3050	
MI FLINT	313/732-7303	B212A	120	313/233-3050 B/V	120
MI GRAND RAPIDS	616/459-5069	FX B/V	120	616/458-1200	
MI GRAND RAPIDS				616/774-0966 B/V	120
MI JACKSON	517/787-9461	B			
MI KALAMAZOO	616/385-3150	B		616/385-0160	
MI KALAMAZOO	616/388-3534	B/V	120		
MI KALAMAZOO	616/388-3534	B/V	120		
MI LANSING	517/487-2040	FX B/V	120	517/372-5400	
MI LANSING				517/372-5420 B/V	120
MI MANISTEE	616/723-8373	FX B/V	120		
MI PLYMOUTH	313/459-8900	B			
MI PLYMOUTH	313/459-8100	B212A	120		
MI SAGINAW				517/790-5166	
MI SOUTHFIELD	313/569-8350	B			
MI ST JOSEPH	616/429-2568	FX B/V	120		
MI TRAVERSE CITY	616/946-0002	FX B/V	120		
MI WARREN				313/575-9480 B/V	120
MN DULUTH				218/722-1719 B/V	120
MN MANKATO	507/625-1684	B212A	120		
MN MINNEAPOLIS	612/339-5200	B		612/341-2459 B/V	120
MN MINNEAPOLIS	612/339-8086	B			
MN MINNEAPOLIS	612/339-2415	B212A	120		
MN ROCHESTER	507/282-3741	B212A	120		
MN ST. PAUL	612/339-5200	B		612/341-2459 B/V	120
MN ST. PAUL	612/339-2415	B212A	120		
MO BRIDGETON	314/731-2304	FX B			
MO COLUMBIA	314/875-1150	FX B			
MO FLORISSANT				314/421-4990 B/V	120
MO JEFFERSON CITY	314/634-3273	B212A	120		
MO JOPLIN	417/782-3037	B/V	120		
MO KANSAS CITY	913/677-2833	B		816/221-9900	
MO KANSAS CITY	913/677-0707	B212A	120	816/221-9900 B/V	120
MO SPRINGFIELD	417/831-0566	B212A	120		
MO ST JOSEPH	816/232-0624	B212A	120		
MO ST LOUIS	314/421-5110	B		314/421-4990	
MO ST LOUIS	314/621-4660	B212A	120	314/421-4990 B/V	120
MS JACKSON	601/944-0860	FX B		601/969-0036 B/V	120
MS JACKSON	601/969-5141	B212A	120		
MS PASCAGOULA	601/769-6502	B			
MS PASCAGOULA	601/769-6673	B212A	120		
MT BUTTE	406/494-2998	B212A	120		
MT HELENA				406/443-0000	
NE LINCOLN	402/475-8659	FX B/V	120	402/475-8392 B/V	120
NE OMAHA	402/392-2970	B		402/341-7733	
NE OMAHA	402/397-0414	B212A	120	402/341-7733 B/V	120
NC ASHEVILLE	704/255-0021	B212A	120	704/253-3517 B/V	120
NC CHARLOTTE	704/376-2545	FX B		704/374-0371	
NC CHARLOTTE	704/376-2544	FX B212A	120	704/332-3131 B/V	120
NC DAVIDSON	919/549-0441	B		919/549-8311	
NC DAVIDSON				919/549-8139 B/V	120
NC DURHAM	919/549-0441	B		919/549-8311	
NC DURHAM	919/549-8910	B212A	120	919/549-8139 B/V	120
NC GREENSBORO	919/379-0470	B/V	120	919/273-2851 B/V	120
NC HIGH POINT	919/885-0171	FX B		919/889-2253	
NC HIGH POINT	919/885-0171	FX B/V	120	919/889-2253 B/V	120
NC RALEIGH/DURHAM	919/549-0441	B		919/549-8311	
NC RALEIGH/DURHAM	919/832-6592	FX B212A	120	919/549-8139 B/V	120
NC RES. TRI. PARK	919/549-0441	B		919/549-8311	
NC RES. TRI. PARK				919/549-8139 B/V	120
NC WINSTON-SALEM				919/725-2126 B/V	120
NC WINSTON-SALEM	919/725-9252	B/V	120	919/725-2126 B/V	120
ND BISMARCK				701/663-5081	
ND MANDAN				701/663-5081	
NH CONCORD				603/224-8110	
NH CONCORD				603/224-1024 B/V	120
NH MANCHESTER	603/623-8859	FX B/V	120		
NH NASHUA	603/882-0435	FX B/V	120		
NH PORTSMOUTH				603/431-2302	
NJ ATLANTIC CITY				609/348-0561	
NJ BAYONNE				201/623-6818	
NJ BAYONNE				201/623-0469 B/V	120
NJ ENGLEWOOD CLFS	201/894-8250	B			
NJ JERSEY CITY				201/623-6818	
NJ JERSEY CITY				201/623-0469 B/V	120
NJ LYNDHURST	201/460-0100	B			
NJ LYNDHURST	201/460-0180	B212A	120		

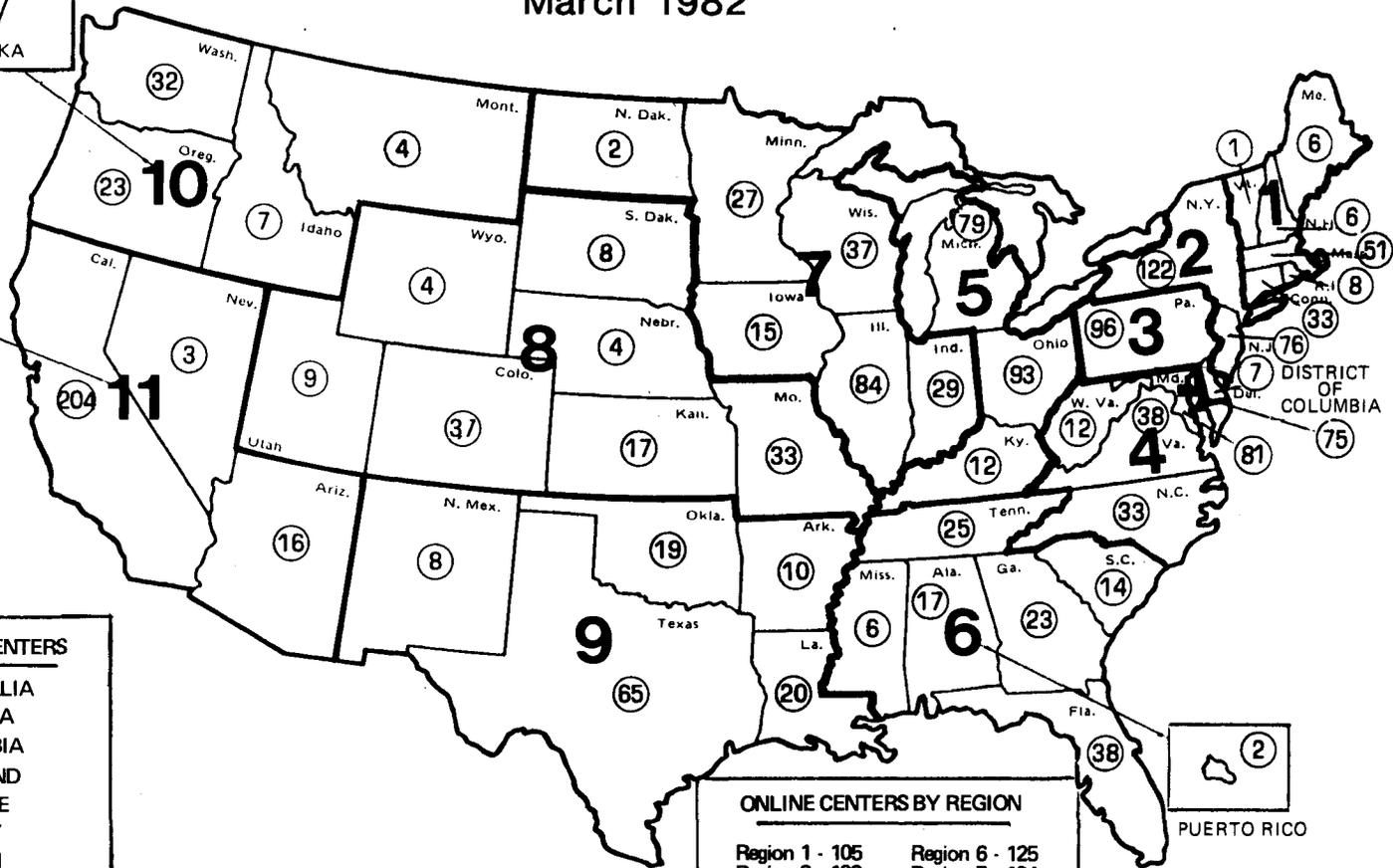
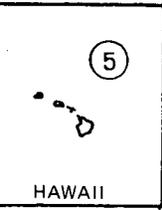
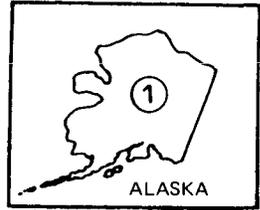
NJ MARLTON				609/596-1500 B/V	120
NJ MOORESTOWN	609/235-3761	FX B			
NJ MORRISTOWN	201/267-3997	B212A	120	201/455-0275 B/V	120
NJ NEW BRUNSWICK				201/246-1090	
NJ NEWARK	201/483-5937	B		201/623-6818	
NJ NEWARK	201/483-4878	B212A	120	201/623-0469 B/V	120
NJ PASSAIC				201/777-0952	
NJ PATERSON				201/684-7560 B/V	120
NJ PISCATAWAY	201/981-1900	B/V	120		
NJ PRINCETON	609/452-8970				
NJ PRINCETON	609/452-8560	B212A	120	609/683-1312 B/V	120
NJ RIDGEWOOD	201/447-6175	FX B212A	120		
NJ TRENTON				609/989-8847 B/V	120
NJ UNION	201/483-5937	B			
NJ UNION	201/483-4878	B212A	120		
NJ UNION CITY				201/623-6818	
NJ UNION CITY				201/623-0469 B/V	120
NJ WAYNE	201/785-4480	B			
NM ALBUQUERQUE				505/243-7701	
NM ALBUQUERQUE	505/843-6301	B/V	120	505/243-4479 B/V	120
NV BOULDER CITY	702/293-0300	B			
NV CARSON CITY	702/882-7810	B/V	120		
NV LAS VEGAS	702/293-0300	B/V	120	702/733-2158	
NV LAS VEGAS				702/737-6861 B/V	120
NV RENO	702/882-7810	B/V	120		
NY ALBANY	518/463-3111	FX B		518/445-9111	
NY ALBANY	518/434-2633	B212A	120	518/465-8444 B/V	120
NY BINGHAMPTON				607/772-6642 B/V	120
NY BUFFALO	716/845-6610	B		716/847-0600	
NY BUFFALO	716/847-0500	B212A	120	716/847-1440 B/V	120
NY CORNING	607/962-5071	B			
NY CORNING	607/936-4151	B212A	120		
NY DEER PARK				516/586-7810	
NY ELMIRA	607/737-9010	B212A	120		
NY HEMPSTEAD, LI	516/872-6500	FX B		516/292-0320	
NY HEMPSTEAD, LI	516/872-6500	FX B/V	120	516/292-3800 B/V	120
NY HUNTINGTON, LI	516/549-2780	FX B			
NY HUNTINGTON, LI	516/549-2780	FX B/V	120		
NY MINOLA	516/222-1423	FX B212A	120		
NY NEW YORK				212/785-2540	
NY NEW YORK	212/683-0131	B			
NY NEW YORK	212/532-0437	B		212/736-0099	
NY NEW YORK	212/685-4414	B			
NY NEW YORK	212/668-0130	B212A	120	212/947-9600 B/V	120
NY NEW YORK	212/532-8101	B212A	120	212/785-3860 B/V	120
NY NEW YORK	212/684-6363	B/V	120		
NY NEW YORK	212/785-5400	B/V	120		
NY NIAGARA FALLS	716/285-6691	FX B			
NY NIAGARA FALLS	716/285-3114	FX B212A	120		
NY POUGHKEEPSIE	914/471-6100	FX B/V	120	914/473-5600	
NY ROCHESTER	716/248-8000	B		716/454-3430	
NY ROCHESTER	716/248-8350	B212A	120	716/454-1020 B/V	120
NY ROME				315/797-0920 B/V	120
NY SCHENECTADY				518/445-9111	
NY SCHENECTADY				518/465-8444 B/V	120
NY SYRACUSE	315/437-7111	B		315/472-5503	
NY SYRACUSE	315/437-1117	B212A	120	315/472-5583 B/V	120
NY TROY				518/445-9111	
NY TROY				518/465-8444 B/V	120
NY UTICA				518/465-8444 B/V	120
NY WHITE PLAINS	914/684-6075	B/V	120	914/328-9199 B/V	120
NY WHITE PLAINS	914/328-9580	B/V	120		
OH AKRON	216/535-1861	B/V	120	216/762-9791 B/V	120
OH CANTON				216/452-0903	
OH CINCINNATI	513/891-7211	B		513/621-7017	
OH CINCINNATI	513/791-5311	B212A	120	513/579-0390 B/V	120
OH CINCINNATI	513/793-8893	B/V	120		
OH CLEVELAND	216/781-7050	B			
OH CLEVELAND	216/861-5383	B212A	120	216/575-1658 B/V	120
OH COLUMBUS	614/421-7270	B		614/463-9340 B/V	120
OH COLUMBUS	614/421-1650	B212A	120		
OH DAYTON	513/223-3847	B		513/461-1570	
OH DAYTON	513/461-6400	B212A	120	513/461-5254 B/V	120
OH EUCLID				216/241-0940	
OH EUCLID				216/696-4225 B/V	120
OH KENT				216/678-5115	
OH MARYSVILLE	513/642-2015	FX B212A	120		
OH PARMA				216/241-0940	
OH PARMA				216/696-4225 B/V	120
OH TOLEDO	419/243-3144	FX B		419/225-7805	

OH TOLEDO	419/255-2946	FX B212A	120	419/225-7881	B/V	120
OH YOUNGSTOWN	216/744-5326	B212A	120	216/743-2296	B/V	120
OK BETHANY	405/947-0561	B				
OK BETHANY	405/949-0125	B212A	120	405/232-4546	B/V	120
OK NORMAN	405/947-6387	B/V	120	405/232-4546	B/V	120
OK OKLAHOMA CITY				405/232-4546		
OK OKLAHOMA CITY	405/947-6387	B/V	120	405/232-4546	B/V	120
OK STILLWATER				405/624-1112		
OK TULSA				918/584-3247		
OK TULSA	918/582-4433	B/V	120	918/584-3247	B/V	120
OR PORTLAND	503/226-0627	B		503/295-3000		
OR PORTLAND	503/231-4077	B212A	120	503/295-3028	B/V	120
OR SALEM				503/378-7712	B/V	120
PA ALLENTOWN	215/433-6131	FX B		215/425-3330		
PA ALLENTOWN	215/432-5926	B212A	120	215/425-3330	B/V	120
PA ALTOONA	814/946-8888	B212A	120			
PA DOWINGTON	215/269-9861	FX B/V	120			
PA ERIE	814/453-7161	B		814/453-7561		
PA ERIE				814/453-6859	B/V	120
PA HARRISBURG	717/236-1190	FX B				
PA HARRISBURG	717/233-8531	FX B212A	120	717/236-6882	B/V	120
PA JOHNSTOWN				814/535-7576		
PA JOHNSTOWN				814/535-8541	B/V	120
PA KING OF PRUSSIA	215/337-9900	B212A	120	215/337-4300	B/V	120
PA PENN HILLS				412/288-9950		
PA PENN HILLS				412/288-9974	B/V	120
PA PHILADELPHIA	215/561-6120	B		215/574-0620		
PA PHILADELPHIA	215/567-1381	B212A	120	215/574-9462	B/V	120
PA PITTSBURGH	412/765-1320	B		412/288-9950		
PA PITTSBURGH	412/261-4151	B212A	120	412/288-9974	B/V	120
PA SCRANTON				717/961-5321		
PA SHARON				412/346-6576		
PA UPPER DARBY				215/574-0620		
PA UPPER DARBY				215/574-9462	B/V	120
PA VALLEY FORGE	215/666-9190	B				
PA VALLEY FORGE	215/666-0930	B212A	120			
PA YORK	717/846-3900	B/V	120	717/846-6550	B/V	120
RI PROVIDENCE	401/273-2922	FX B/V	120			
RI PROVIDENCE	401/273-2923	FX B/V	120	401/751-7912	B/V	120
RI WARWICK				401/751-7912	B/V	120
SC CHARLESTON	803/577-2179	FX B/V	120	803/722-4303	B/V	120
SC COLUMBIA	803/252-0840	FX B				
SC COLUMBIA	803/256-5238	FX B212A	120	803/254-0695	B/V	120
SC GREENVILLE	803/271-2418	FX B		803/233-3488		
SC GREENVILLE	803/271-9967	FX B		803/233-3486	B/V	120
SC SPARTANBURG	803/585-2637	FX B/V	120			
SD PIERRE				605/224-6188		
TN CHATTANOOGA	615/756-5856	B		615/756-5323		
TN CHATTANOOGA	615/756-0561	B212A	120	615/756-1161	B/V	120
TN KNOXVILLE	615/637-3118	FX B		615/523-5500		
TN KNOXVILLE	615/523-7458	FX B212A	120	615/523-5500	B/V	120
TN MEMPHIS	901/529-0170	B		901/525-2563		
TN MEMPHIS	901/529-0183	B212A	120	901/521-0215	B/V	120
TN NASHVILLE	615/367-9382	B		615/244-8310		
TN NASHVILLE	615/361-7566	B212A	120	615/244-5099	B/V	120
TX ABILENE				915/676-7701		
TX ABILENE				915/676-8545	B/V	120
TX AUSTIN	512/444-3280	B/V	120	512/928-1130	B/V	120
TX BAYTOWN	713/427-5856	FX B				
TX BEAUMONT	713/832-2589	FX B				
TX CORPUS CHRISTI	512/882-3641	FX B212A	120	512/884-9030	B/V	120
TX DALLAS	214/638-8888	B/V	120	214/748-0127		
TX DALLAS	214/688-1444	B/V	120	214/748-6371	B/V	120
TX EL PASO	915/544-9590	B/V	120	915/532-7907	B/V	120
TX EL PASO	915/532-1936	B212A	120			
TX FORT WORTH	214/263-4581	FX B/V	120	817/336-7791		
TX FORT WORTH				817/332-4307	B/V	120
TX GALVESTON				713/762-3308	B/V	120
TX HOUSTON	713/975-0500	B/V	120	713/227-1018	B/V	120
TX HOUSTON	713/977-7671	B212A	120	713/227-1018	B/V	120
TX LACKLAND				512/225-8004	B/V	120
TX LONGVIEW	214/758-1756	FX B/V	120			
TX LUBBOCK	806/762-0136	FX B				
TX MIDLAND	915/683-5645	B				
TX MIDLAND	915/683-9833	B212A	120			
TX NEDERLAND				713/724-6717	B/V	120
TX ODESSA	915/563-3745	FX B		915/332-6883		
TX SAN ANGELO				915/944-7621	B/V	120
TX SAN ANTONIO	512/225-8002	B/V	120	512/225-8004	B/V	120
UT SALT LAKE CITY	801/582-8972	B				

UT SALT LAKE CITY	801/582-6060	B212A	120	801/359-0149 B/V	120
VA CHESAPEAKE				804/625-1186 B/V	120
VA HERNDON				703/435-3333	
VA LYNCHBURG	804/528-0021 FX	B212A	120		
VA NEWPORT NEWS	804/596-5754 FX	B/V	120	804/596-6600 B/V	120
VA NORFOLK	804/625-8301	B212A	120	804/625-1186 B/V	120
VA PORTSMOUTH				804/625-1186 B/V	120
VA RICHMOND	804/744-4860	B/V	120	804/788-9902 B/V	120
VA ROANOKE	703/345-6668 FX	B/V	120		
VA VIRGINIA BEACH				804/525-1186 B/V	120
VT BURLINGTON	802/864-0054 FX	B212A	120		
VT MONTPELIER				802/229-4966	
WA AUBURN				206/939-9982 B/V	120
WA BELLEVUE	206/625-9937	B212A	120	206/625-9612 B/V	120
WA BELLEVUE	206/625-9900	B		206/447-9012	
WA ENUMCLAW	206/825-6909 FX	B212A	120		
WA LONGVIEW				206/577-5835	
WA OLYMPIA	206/943-4190 FX	B			
WA RICHLAND	509/375-3367	B/V	120		
WA SEATTLE	206/625-9900	B		206/447-9012	
WA SEATTLE	206/625-9937	B212A	120	206/625-9612 B/V	120
WA SPOKANE	509/747-4105	B/V	120	509/455-4071 B/V	120
WA TACOMA	206/952-6800 FX	B		206/627-1791 B/V	120
WA WENACHEE				509/662-1901	
WA WENACHEE				509/662-1901 B/V	120
WI APPLETON	414/734-9940 FX	B/V	120		
WI EAU CLAIRE	715/834-7863 FX	B212A	120		
WI GREEN BAY	414/468-6808	B/V	120		
WI MADISON	608/221-4211	B		608/251-5904	
WI MADISON	608/221-0891	B212A	120	608/257-5010 B/V	120
WI MILWAUKEE	414/257-3482	B		414/271-2560	
WI MILWAUKEE	414/257-1703	B/V	120	414/271-3914 B/V	120
WI NEENAH	414/722-5580	B/V	120		
WI OSHKOSH	414/235-4594 FX	B/V	120		
WI RACINE	414/637-0910	B/V	120		
WV CHARLESTON	304/345-2908	B212A	120	304/345-6471 B/V	120
WV HUNTINGTON	304/522-6261 FX	B			
WY CHEYENNE				307/638-4421 B/V	120

National Library of Medicine ONLINE CENTERS in the UNITED STATES

March 1982



- NON - U. S. CENTERS**
- AUSTRALIA
 - CANADA
 - COLOMBIA
 - ENGLAND
 - FRANCE
 - ITALY
 - JAPAN
 - MEXICO
 - P.A.H.O.
 - SOUTH AFRICA
 - SWEDEN
 - SWITZERLAND
 - WEST GERMANY

ONLINE CENTERS BY REGION

Region 1 - 105	Region 6 - 125
Region 2 - 198	Region 7 - 194
Region 3 - 103	Region 8 - 112
Region 4 - 239	Region 9 - 122
Region 5 - 184	Region 10 - 67
Region 11 - 228	
TOTAL 1677	



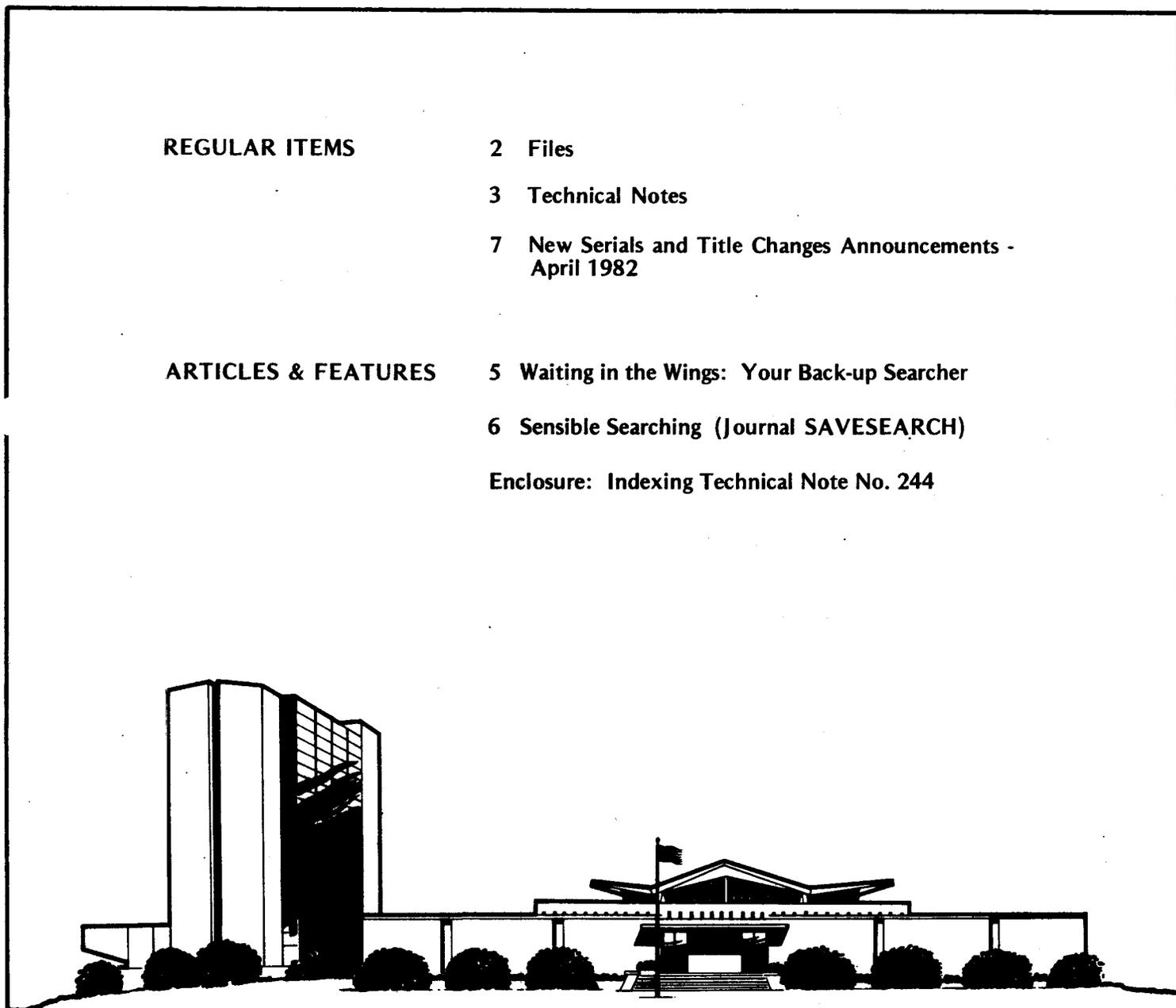
THE NLM TECHNICAL BULLETIN

REGULAR ITEMS

- 2 Files
- 3 Technical Notes
- 7 New Serials and Title Changes Announcements - April 1982

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 - 6 Sensible Searching (Journal SAVESEARCH)
- Enclosure: Indexing Technical Note No. 244



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*CANCERPROJ	21,117	1978-1981	12 NOV 81	8110(EM)
*CATLINE	398,546	THROUGH 1982	21 MAY 82	
*CHEMLINE	530,754		17 MAY 82	8205(EM)
*CLINPROT	3,088		27 APR 82	8204(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
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*HISTLINE	49,496		25 MAR 82	8203(EM)
MEDLINE	505,373	JAN 80-JUN 82	03 MAY 82	8206(EM)
MED79	264,528	JAN 79-DEC 79	14 DEC 81	
MED77	510,972	JAN 77-DEC 78	14 DEC 81	
+MED75	642,934	JAN 75-DEC 76	14 DEC 81	
+MED72	669,105	JAN 72-DEC 74	14 DEC 81	
+MED69	668,257	JAN 69-DEC 71	14 DEC 81	
+MED66	501,801	JAN 66-DEC 68	14 DEC 81	
MESH VOC	43,794	1982	17 MAY 82	
*NAME AUTH	129,975		24 MAY 82	
*POPLINE	100,450	1970-MAY 82	10 MAY 82	8205(EM)
*RTECS	51,430	1979 ED.-JAN 82	15 MAR 82	
SDILINE	21,274	JUN 82	03 MAY 82	
*SERLINE	39,343	1982	20 MAY 82	
*TDB	3,555		03 MAY 82	
*TOXLINE	426,415		24 MAY 82	8205(EM)
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TOXBIB	69,547	1979-JUN 82		
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TOXBIB	112,170	1968-1973		
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HEEP	29,662	1970-1973		
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 Technical Notes Editor: Patti Patterson
 301/496-6193

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 MEDLARS Management Section
 National Library of Medicine
 8600 Rockville Pike
 Bethesda, Maryland 20209

TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the Online Services Reference Manual 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.

- NLM ONLINE USERS MEETING AT MLA - The annual NLM Online Users Meeting will be held at the Medical Library Association's Annual Meeting on June 14, 1982, 12:30 - 2:00 p.m. in the Disneyland Hotel in Anaheim, California. All NLM online users are encouraged to attend.
- MEMORIAL DAY HOLIDAY SCHEDULE - Please note that there is a change in the Memorial Day holiday schedule as published in the October 1981 NLM Technical Bulletin. Both the NLM and SUNY computers will be operational on May 24. NLM will be up on May 31 from 8:30 a.m. to 5:00 p.m. ET and SUNY will be down on that date. SUNY-primary access users can search MEDLINE, its backfiles, and the HEALTH file at NLM on May 31. The MMS Service Desk will not be staffed on May 31 because it is an official government holiday.
- SATURDAY HOURS AT NLM - Users are reminded that regular Saturday hours on the NLM computer cannot be guaranteed. Saturday searching and demonstrations should be scheduled with this in mind. NLM will make every effort to have the system available as scheduled from 8:30 a.m. to 5:00 p.m. ET. If you are unable to access the NLM system on Saturday, please call the NLM computer room (301/496-9113) to determine the status of the system. (MEDLARS Management Section is not staffed on Saturdays). Computer operators only answer questions regarding the up/down status of the system and do not answer technical questions such as searching the databases, requests to cancel codes, purging OFFSEARCHes, etc.
- LIST OF SERIALS AND MONOGRAPHS INDEXED FOR ONLINE USERS, 1982 - The revised edition of List of Serials and Monographs Indexed for Online Users, 1982 can now be ordered from the National Technical Information Service (NTIS). The order number is PB 82-189390 and the price is \$9.00 hardcopy (\$4.00 microfiche). Distribution will be made by NTIS in late May.
- NOTES FOR MEDICAL CATALOGERS, - Since 1981, each quarterly issue of the NLM Current Catalog has included an appendix of "Notes for Medical Catalogers" containing articles and news announcements describing the cataloging 1981 policies, procedures, and bibliographic databases of NLM's Cataloging Section, Technical Services Division (News, February 1981). The four sections of Notes published in 1981 have been collected and reprinted as one report which can be ordered from the National Technical Information Service (Springfield, VA 22161). Order by full title and accession number--Notes for Medical Catalogers, 1981 (PB82-196569). Price: \$13.50 (\$4.00 microfiche).

WAITING IN THE WINGS: YOUR BACK-UP SEARCHER
 Sheila T. Proudman, MEDLARS Management Section, NLM

There are some steps that can be taken to smooth the way for a substitute who has to perform searches in the absence of the primary searcher. The most helpful action the primary searcher can take is to give the back-up searcher a complete inservice training program, or perhaps even convince the library administration that attending outside training classes is as necessary for a back-up searcher as it is for the primary searcher. Other things that might be done if neither of these courses of action is feasible include:

1. Keep all search tools, manuals, descriptive materials, instruction sheets, etc., current and in one central and well-publicized location.
2. Create a list of steps to follow to access each search system used, along with telephone numbers for assistance. Include all current account numbers/userID codes/passwords and leave these with the back-up searcher.
3. If possible, include a list of other online searchers in the organization or the local area who might be able to offer advice and/or assistance to an inexperienced searcher.
4. Make sure all record-keeping and billing procedures are explained in detail in writing.

The following is a sample of a login aid that could be given to the back-up searcher. Please make modifications as needed for your specific organization.

TO USE NLM OR SUNY	
TYMNET	TELENET
<p>When asked for identifier type _____ but do not press carriage return. At LOG IN type either NLM or SUNY. At PASSWORD type BCN. After the semi-colon (;) press the carriage return.</p>	<p>Begin by pressing carriage return twice. After TERMINAL = type another carriage return. After the @ sign type either C 301 20 (for NLM) or C 518 20 (for SUNY). After the CONNECTED message press carriage return.</p>
<p>At request ENTER /LOGIN type /LOGIN. At request for USERID/PASSWORD type _____ over the disguising marks. For help call _____ at _____ or the</p>	
<p>MEDLARS Management Service Desk, (800) 638-8480 or (301) 496-6193.</p>	

Sensible Searching

This suggestion was submitted by JoAnn Babish, librarian at the Moses Taylor Hospital, Scranton, PA, to the "Online Connection," the Region 3 newsletter, and is presented here because of its universal applicability.

Ms. Babish sometimes finds it beneficial to limit search results to items published in journals collected by her library, especially when information is needed before an interlibrary loan can be processed. Because only a small percentage of her journals are non-Abridged Index Medicus (AIM) journals, she uses a combination of two search techniques: the AIM Subset indicator A (SB) and a saved search of journal title codes or title abbreviations for the non-AIM journals. To limit a large retrieval, she first combines the result with the Subset indicator:

```
USER:
5 AND A (SB)
PROG:
SS (6) PSTG (245)
```

then with her saved search of journal title codes:

```
USER:
5 AND MTH JOURNALS (SN)
PROG:
SS (7) PSTG (56)
```

As a final step she will type 6 OR 7 to bring the two lists together.

The use of these two techniques improves search efficiency by taking advantage of an existing subset, which saves processing time that would be spent if the journal title code of every journal in the library's collection were entered in the saved search. A smaller saved search also takes up much less free space in the user's UUSF (Profile) area, leaving more space for other saved searches. The advantage of adding non-AIM titles to the search, says Ms. Babish, is that "I frequently come across valuable articles which I would have missed had I only limited myself to AIM."

Note: A detailed presentation of this search technique written by Julia B. Faust was published in the Bulletin of the Medical Library Association 70 (2): 241-243, April 1982.

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - APRIL 1982
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. 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. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

- | | |
|--|---|
| <p>ADVANCES IN MODERN ENVIRONMENTAL TOXICOLOGY
 1,1980--
 SENATE PRESS
 PRINCETON NJ
 UNITED STATES
 ADVANCES IN MODERN ENVIRONMENTAL TOXICOLOGY
 SENATE PRESS, PRINCETON, N.J.
 ON ORDER
 A14525000
 \$40.00</p> <p>ADVANCES IN VETERINARY IMMUNOLOGY
 1981--
 ELSEVIER
 AMSTERDAM
 ON ORDER
 A15515000
 \$55.75</p> <p>IM AMERICAN JOURNAL OF CLINICAL ONCOLOGY
 5N1, FEB 1982--
 MASSON
 CONTINUES: CANCER CLINICAL TRIALS.
 NEW YORK
 UNITED STATES
 MASSON PUBLISHING U.S.A., INC. 14 E. 60TH
 ST. NEW YORK, N.Y. 10022
 W1 AM45K
 A24010000
 \$59.00</p> <p>ANTIMICROBIAL CHEMOTHERAPY RESEARCH STUDIES
 SERIES
 1981--
 RESEARCH STUDIES PRESS
 CHICHESTER SUSSEX
 ENGLAND
 IN PROCESS
 A55850000</p> <p>IM CLINICAL AND EXPERIMENTAL HYPERTENSION.
 PT. A, THEORY AND PRACTICE
 A4N1-2,1982--
 MARCEL DEKKER
 CONTINUES IN PART: CLINICAL AND
 EXPERIMENTAL HYPERTENSION.
 NEW YORK
 UNITED STATES
 MARCEL DEKKER INC., 270 MADISON AVE., NEW
 YORK NY 10016
 W1 CL658B
 C25470000
 \$173.00</p> | <p>IM CLINICAL AND EXPERIMENTAL HYPERTENSION.
 PART B, HYPERTENSION IN PREGNANCY
 B1N1,1982--
 MARCEL DEKKER
 CONTINUES IN PART: CLINICAL AND
 EXPERIMENTAL HYPERTENSION.
 NEW YORK
 UNITED STATES
 MARCEL DEKKER, INC., 270 MADISON AVE., NEW
 YORK NY 10016
 W1 CL658C
 C25477000
 \$173.00</p> <p>CLINICAL OPHTHALMOLOGY
 1981--
 HARPER MEDICAL
 NEW YORK
 UNITED STATES
 HARPER MEDICAL NEW YORK, N.Y.
 ON ORDER
 C26210000</p> <p>IM COMPUTERIZED RADIOLOGY
 6N1,JAN/FEB 1982--
 PERGAMON PRESS
 CONTINUES COMPUTERIZED TOMOGRAPHY
 ELMSFORD NY
 UNITED STATES
 IN PROCESS
 C36077000</p> <p>IM CRITICAL REVIEWS IN BIOMEDICAL ENGINEERING
 7N1,DEC 1981--
 CRC PRESS
 CONTINUES: CRITICAL REVIEWS IN
 BIOENGINEERING.
 BOCA RATON FL
 UNITED STATES
 W1 CR216W
 C52485000</p> <p>IM FOOD AND CHEMICAL TOXICOLOGY
 20N1,FEB 1982--
 PERGAMON PRESS
 CONTINUES: FOOD AND COSMETICS TOXICOLOGY.
 OXFORD
 ENGLAND
 W1 F0403
 F09610000</p> |
|--|---|

IM HUMAN NUTRITION. APPLIED NUTRITION
 36AN1,FEB 1982--
 JOHN LIBBEY
 CONTINUES IN PART: JOURNAL OF HUMAN
 NUTRITION.
 LONDON ENGLAND
 JOHN LIBBEY AND COMPANY LTD., 80-84
 BONDWAY, LONDON SW 81SF, ENGLAND
 W1 HU448V
 H22325100

JOURNAL OF CLINICAL SURGERY APPLIED
 PHYSIOLOGY AND METABOLISM
 1,1982--
 APPLETON-CENTURY-CROFTS
 EAST NORWALK CT UNITED STATES
 APPLETON CENTURY CROFTS,25 VAN ZANT ST,EAST
 NORWALK CT 06855
 ON ORDER
 J17190000
 \$45.00

IM JOURNAL OF EXPERIMENTAL PSYCHOLOGY.
 LEARNING, MEMORY, AND COGNITION
 8N1,JAN 1982--
 AMERICAN PSYCHOLOGICAL ASSOCIATION
 CONTINUES: JOURNAL OF EXPERIMENTAL
 PSYCHOLOGY. HUMAN LEARNING AND MEMORY.
 WASHINGTON UNITED STATES
 MICROFORM SOURCE:UNIVERSITY MICROFILMS
 INTERNATIONAL,300 N ZEEB RD,ANN ARBOR MI
 48106
 W1 J0644VJ
 J20730000

JOURNAL OF PHARMACOLOGY
 1981--
 HOUSE OF PEARSE
 TWICKENHAM ENGLAND
 HOUSE OF PEARSE 325 STAINES ROAD TWICKENHAM
 TW2 5AX ENGLAND
 ON ORDER
 J34590000
 \$40.00

JOURNAL OF TRADITIONAL CHINESE MEDICINE
 1N1,SEP 1981--
 ACADEMY OF TRADITIONAL CHINESE MEDICINE
 BIEJING CHINA
 DISTRIBUTED BY: CHINA NATIONAL PUBLICATIONS
 IMPORT AND EXPORT CORPORATION, P.O. BOX
 1818-B, BEIJING, CHINA
 IN PROCESS
 J40551000

IM SOCIAL SCIENCE AND MEDICINE (1982)
 16N1,1982--
 PERGAMON PRESS
 CONTINUES SOCIAL SCIENCE AND MEDICINE.
 PT.A, MEDICAL SOCIOLOGY. PT.B, MEDICAL
 ANTHROPOLOGY. PT.C, MEDICAL ECONOMICS.
 PT.D, MEDICAL GEOGRAPHY. PT.E, MEDICAL
 PSYCHOLOGY. PT.F, MEDICAL AND SOCIAL
 ETHICS.
 OXFORD ENGLAND
 W1 S0127G
 S28690000
 \$182.00

ZENTRALBLATT IMMUNOLOGIE KLINISCHE
 RHEUMATOLOGIE
 334N1,1982--
 SPRINGER-VERLAG
 CONTINUES: ZENTRALBLATT IMMUNOLOGIE-
 TRANSPLANTATION.
 BERLIN GERMANY, WEST
 IN PROCESS
 Z07150000

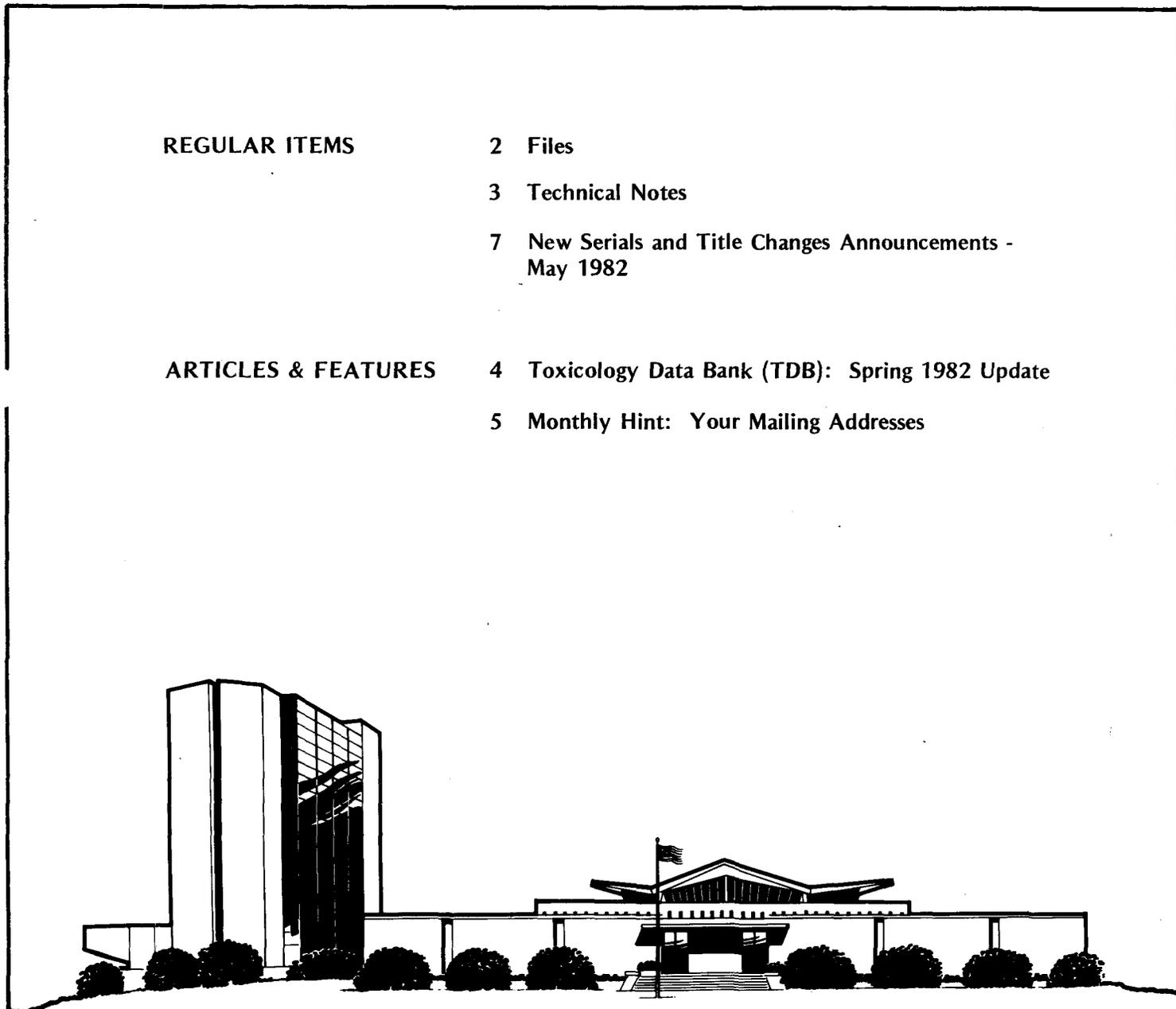
THE NLM TECHNICAL BULLETIN

REGULAR ITEMS

- 2 Files
- 3 Technical Notes
- 7 New Serials and Title Changes Announcements -
May 1982

ARTICLES & FEATURES

- 4 Toxicology Data Bank (TDB): Spring 1982 Update
- 5 Monthly Hint: Your Mailing Addresses



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MESH VOC	44,057	1982	21 JUN 82	
*NAME AUTH	129,975		24 MAY 82	
*POPLINE	101,112	1970-JUN 82	14 JUN 82	8206(EM)
*RTECS	53,425	1979 ED.-APR 82	01 JUN 82	
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INDEPENDENCE DAY HOLIDAY SCHEDULE - Just a reminder that both the NLM and SUNY computers will be down on Monday, July 5, 1982, in observance of Independence Day. In addition, the NLM computer will be down on Saturday, July 3, but SUNY will be available that day from 8:30 am to 5 pm ET. Offprints entered that day will be processed Tuesday, July 6, and mailed the next day.

ONLINE SERVICES TRAINING CLASSES - The following online services training classes have been added to the 1982 schedule:

July 19-23	Initial	NLM
July 26-30	Initial	NLM
Aug. 2-6	Initial	Nebraska
Aug. 9-13	Advanced	UCLA
Sept.13-17	Initial	UCLA

All training applications or requests for applications should be directed to the MEDLARS Management Section. Future classes will also be announced in the NLM Technical Bulletin.

MLA RECERTIFICATION CREDIT FOR NLM ONLINE TRAINING/UPDATES - Members of the Medical Library Association who attend an NLM Online Services Training course and/or an NLM Annual TRP Update receive contact hours toward recertification. Contact hours are awarded on the basis of one contact hour per 50 minutes actual class time. Persons who attend the full Initial or Advanced classes will receive 35 contact hours (the equivalent of 3.5 MLA continuing education units, or CEUs), while auditors in either of those classes will receive 21 contact hours (the equivalent of 2.1 MLA CEUs). Auditors are trainees who participate in all aspects of the course with the exception of hands-on practice sessions. Members attending the Abbreviated sessions of the Initial or Advanced courses also receive 21 contact hours. Currently, persons attending an Annual Update session sponsored by a Regional Medical Library receive four contact hours (the equivalent of .4 MLA CEUs).

In making application for recertification, members should specify the name of the class, the dates attended, and the location of the course. MLA can validate this information against the official class lists supplied by NLM. Attendance at Annual Update sessions can likewise be verified by lists supplied by the Regional Medical Libraries.

TOXICOLOGY DATA BANK (TDB): SPRING 1982 UPDATE
Carol B. Haberman, M.S., M.P.A.
Specialized Information Services

On May 3, 1982 the Spring 1982 version of the TDB (Toxicology Data Bank) became available through the National Library of Medicine's MEDLARS system. TDB now has a total of 3,555 records of which 2,960 are complete. Of the completed records, 502 have been revised as of the date shown in the LR (Last Revision) field for the record. If the date in the LR field is more recent than the date in the ST (Status) field, then the revised record has not been reviewed by the TDB Peer Review Committee. Alterations to the original record may include correction of errors by modification of data and/or addition of new information from selected Peer Review Committee-approved sources. Where the ST date and the LR date agree, the original TDB record has been completely re-examined, and new material has been added as required. Data from older editions of a source will probably remain in the record when the validity of the information has not been challenged.

The Peer Review Committee plays a unique and central role in the TDB project. Currently composed of fourteen toxicologists who are or have been members of the National Institutes of Health, Division of Research Grants Toxicology Study Section, the Committee reviews all completed and fully revised records prior to their being placed in the online file. The Status field indicates the date of Committee approval (YYMMDD in the first six characters). The primary function of the Peer Review Committee is to assure that the information presented in the record accurately reflects present knowledge concerning the toxicology of the substance. The Committee also advises on compound selection and the sources to be used in building the TDB records.

CHANGES TO TDB

TDB users will notice that several changes have occurred in the file over the last several months. The order of the printing of the data in the record has been modified for the PRT DL command; there is now a PRT FULL defined for the TDB; and the ST and LR fields print at the beginning of the record for all standardized, predefined print commands. The new TDB pocket card which was distributed with the March 1982 Technical Bulletin shows these changes to the unit record as well as other modifications described below.

Mutagenicity information is now included as part of the VALS search category in the Gene-Tox (GENE) data element. Each occurrence of this information includes the citation to the publication that more completely describes the summary results reported by the program. The Gene-Tox Program is funded by the U.S. Environmental Protection Agency, and its purpose is in part to evaluate the current status of bioassays in genetic toxicology. Further information on this program can be obtained by contacting the Environmental Mutagen Information Center, Oak Ridge National Laboratory, Post Office Box Y, Oak Ridge, Tennessee 37830 - Telephone: 615/574-7871.

In addition to the change represented by the addition of the Gene-Tox field to the database, the Therapeutic Index field has been eliminated. Furthermore, Poisoning Potential, PPOT, now is part of the VALS search category. The Poisoning Potential field contains information concerning the potential of toxicity to humans where the data involved are not so detailed as to require the indexing offered by the Human Toxicity/Human Toxicity Keywords combination. It is used for data on humans analogous to the data on animals and non-humans carried in the Toxicity Values, TOXV, field.

We have made a start on informing the searcher of the length of the TDB record. Complete records added or revised as a result of this update include as part of the Status statement the term RLGTH: followed by the number (up to five digits) of characters of data in the record. This number represents the count of characters of data in the record under consideration. From this information, and based upon the user's terminal linesize and page length, the length of the entire TDB record can be estimated. Eventually, all completed records will contain this information.

Many of the changes that have been made to the TDB are based upon requests received from our user community. Your comments are invited so that the utility of this service can be improved. Please write us at TOXICOLOGY DATA BANK, Toxicology Information Program, Specialized Information Services, National Library of Medicine, Bethesda, MD 20209.

MONTHLY HINT: Your Mailing Addresses

Four types of items are regularly mailed to users of the NLM online system: a) printouts from computer searches, b) the monthly NLM Technical Bulletin, c) monthly bills, and d) printouts from monthly Automatic SDI searches.

Offline PRINT and OFFSEARCH requests are either addressed during the procedure as the user answers the NAME? ADDRESS? and CITY, STATE, ZIP? questions, or from the user's PROFILE, which may contain a stored address. If there is a stored address, the computer will not ask the three name and address questions during an offline PRINT or OFFSEARCH; the printout will be sent to the stored address. Users may override the stored address for a particular printout by using the MAIL = PROMPT instruction, or by using the three specific keywords followed by equals signs and the new values:

```

USER:
NAME = S. SMITH, RM. 109
PROG:
SEARCH TITLE, OR NONE-
USER:
ADDRESS = 10 MAPLE ST.
PROG:
SEARCH TITLE, OR NONE-
USER:
CITSTAZIP = ANYPLACE, JM 55555
    
```

A stored address in the PROFILE area is changed online by using the PROFILE MODIFY command. Details may be found in chapter 4 of the Online Services Reference Manual or by typing EXPLAIN PROFILE online. Reminder: NLM and SUNY PROFILES are totally separate; an address must be entered or changed at each computer.

The monthly NLM Technical Bulletin is mailed to the name and address that appears on the user's Online Billing Agreement under "NLM Technical Bulletin and Administrative Address." Monthly bills are sent to the address listed on the Online Billing Agreement under "Billing Address." To change either of these, a letter must be sent to MEDLARS Management Section specifying the userID code, old address, and new address. Reminder: There is only one Technical Bulletin mailing address per Billing Agreement, i.e., per userID code. If multiple copies are required within the organization, photocopies should be made and distributed.

Mailing address information for Automatic SDI service printouts is taken from the Automatic SDI Service Request Form submitted by a user to begin service. If there is an address change, a new Service Request form (or a letter giving specifics of the userID code, old address, new address, and database(s) affected) must be sent to MEDLARS Management Section. All printouts produced via the service are sent to the same address.

There is no connection between the PROFILE stored address, the Billing Agreement addresses, and the Automatic SDI form address. Therefore, if a searcher or organization has a new mailing address, not only should the PROFILE be changed, but the appropriate forms and/or letters must be provided to MMS to insure timely receipt of all materials.

--- PLEASE TYPE NEWS TO SEE THE MOST RECENT NEWS ITEMS ONLINE ---

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - MAY 1982
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. 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. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

- | | |
|--|---|
| <p>IM ACTA RADIOLOGICA: ONCOLOGY, RADIATION
 THERAPY, PHYSICS AND BIOLOGY
 19,1980--
 SOCIETIES OF MEDICAL RADIOLOGY IN DENMARK,
 FINLAND, NORWAY AND SWEDEN
 CONTINUES ACTA RADIOLOGICA, ONCOLOGY,
 RADIATION, PHYSICS, BIOLOGY.
 STOCKHOLM SWEDEN
 IN PROCESS
 A08830000</p> | <p>INFECTIOUS DISEASES NEWSLETTER
 1,1981--
 ELSEVIER/NORTH-HOLLAND
 AMSTERDAM NETHERLANDS
 ON ORDER
 I13007000
 \$84.00</p> |
| <p>AGING AND CELL STRUCTURE
 1,1981--
 PLENUM
 NEW YORK UNITED STATES
 ON ORDER
 A17463000
 \$59.50</p> | <p>PROGRESS IN MEDICAL RADIATION PHYSICS
 1,1982--
 PLENUM PRESS
 NEW YORK UNITED STATES
 PLENUM PRESS, 233 SPRING STREET, NEW YORK,
 NY 10013
 IN PROCESS
 P48088000</p> |
| <p>BRAIN AND COGNITION
 1,1982--
 ACADEMIC PRESS
 NEW YORK UNITED STATES
 ACADEMIC PRESS INC., 111 FIFTH AVE., NEW
 YORK NY 10003
 ON ORDER
 B33025000
 \$45.00</p> | <p>IM REVUE INTERNATIONALE DU TRACHOME ET DE
 PATHOLOGIE OCULAIRE TROPICALE ET
 SUBTROPICALE ET DE SANTE PUBLIQUE
 NS58N1/2,1981--
 LABORATOIRES H. FAURE
 CONTINUES: REVUE INTERNATIONALE DU TRACHOME
 ET DE PATHOLOGIE OCULAIRE TROPICALE ET
 SUBTROPICALE.
 ANNONAY FRANCE
 LABORATOIRES H. FAURE 07104 ANNONAX CEDX,
 FRANCE
 IN PROCESS
 R44150000</p> |
| <p>HUMAN NEUROBIOLOGY
 IN1,MAR 1982--
 SPRINGER VERLAG
 NEW YORK UNITED STATES
 IN PROCESS
 H22325000</p> | <p>IM SCIENTIA SINICA. SERIES B: CHEMICAL,
 BIOLOGICAL, AGRICULTURAL, MEDICAL AND EARTH
 SCIENCES
 25N1,JAN 1982--
 ACADEMIA SINICA
 CONTINUES IN PART: SCIENTIA SINICA.
 BEIJING CHINA
 SCIENTIFIC AND TECHNICAL BOOKS SERVICES
 LTD., P.O. BOX 197, LONDON WC2N 4DE, ENGLAND
 IN PROCESS
 S12891000
 \$180.00</p> |
| <p>IMMUNOLOGIA CLINICA
 1,1982--
 MASSON
 NEW YORK UNITED STATES
 ON ORDER
 I06050000</p> | |

THEORY IN PSYCHOPHARMACOLOGY
1,1981--
ACADEMIC PRESS
LONDON ENGLAND
ACADEMIC PRESS INC., 111 FIFTH AVENUE, NEW
YORK, NEW YORK 10003
IN PROCESS
T08241000

ZENTRALBLATT RADIOLOGIE
125N1,1981--
SPRINGER VERLAG
CONTINUES ZENTRALBLATT FUR DIE GESAMTE
RADIOLOGIE.
BERLIN GERMANY, WEST
IN PROCESS
Z07285000

ZENTRALBLATT RECHTSMEDIZIN
24N1, 1982--
SPRINGER-VERLAG
CONTINUES ZENTRALBLATT FUR DIE GESAMTE
RECHTSMEDIZIN UND IHRE GRENZBIETE.
BERLIN GERMANY, WEST
IN PROCESS
Z07286000

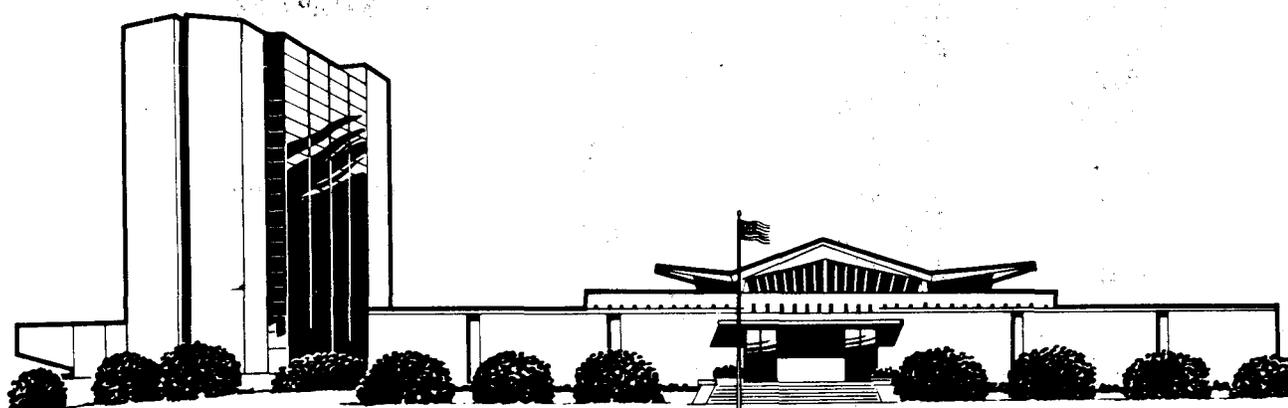
THE NLM TECHNICAL BULLETIN

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- 2 Files
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- 10 New Serials and Title Changes Announcements -
June 1982

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Contain Certain Chemicals in Singular Form



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DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	10,878	THROUGH 1982	16 JUL 82	
*BIOETHICS	12,934	JAN 73-DEC 81	10 MAR 82	8203(EM)
*CANCERLIT	306,611	JAN 63-JUL 82	19 JUL 82	8207(EM)
*CANCERPROJ	21,117	1978-1981	12 NOV 81	8110(EM)
*CATLINE	426,910	THROUGH 1982	16 JUL 82	
*CHEMLINE	530,754		17 MAY 82	8205(EM)
*CLINPROT	3,088		27 APR 82	8204(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
HEALTH	207,123	JAN 75-AUG 82	12 JUL 82	8208(EM)
*HISTLINE	50,464		28 JUN 82	8206(EM)
MEDLINE	551,566	JAN 80-AUG 82	06 JUL 82	8208(EM)
MED79	264,479	JAN 79-DEC 79	14 DEC 81	
MED77	510,972	JAN 77-DEC 78	14 DEC 81	
+MED75	642,934	JAN 75-DEC 76	14 DEC 81	
+MED72	669,105	JAN 72-DEC 74	14 DEC 81	
+MED69	668,257	JAN 69-DEC 71	14 DEC 81	
+MED66	501,801	JAN 66-DEC 68	14 DEC 81	
MESH VOC	44,319	1982	19 JUL 82	
*NAME AUTH	132,815		19 JUL 82	
*POPLINE	101,737	1970-JUL 82	12 JUL 82	8207(EM)
*RTECS	53,425	1979 ED.-APR 82	01 JUN 82	
SDILINE	21,620	AUG 82	06 JUL 82	
*SERLINE	39,534	1982	06 JUL 82	
*TDB	3,555		03 MAY 82	
*TOXLINE	436,998		28 JUN 82	8206(EM)
CBAC	208,042	1979-VOL 96(10,11)		
TOXBIB	72,195	1979-JUL 82		
IPA (ASHP)	14,748	1979-VOL 19(7,8)		
HEEP	33,393	1979-VOL 11(7)		
PESTAB	8,209	1979-VOL 14(DEC 81)		
EMIC	34,796	1950-OCT 81		
ETIC	24,895	1950-MAY 82		
RPROJ	28,306	1979-FEB 82		
TD3	11,366	GRA & I 82(10,11)		
*TOXBACK74	474,653		19 APR 82	
CBAC	265,253	1974-1978		
TOXBIB	103,386	1974-1978		
IPA (ASHP)	30,606	1974-1978		
HEEP	61,871	1974-1978		
PESTAB	13,537	1974-1978		
+TOXBACK65	387,377		19 APR 82	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1969-1973		
HEEP	29,662	1970-1973		
HAPAB/PESTAB	12,966	1968-1973		
HAYES	10,039	1940-1968		
TMIC	4,552	1940-1973		

1) * = NLN ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

Editor: Carolyn B. Tilley
 Assistant Editor: Rose Marie Woodsmall
 Technical Notes Editor: Patti Patterson

301/496-6193

Direct Inquiries to:
 MEDLARS Management Section
 National Library of Medicine
 8600 Rockville Pike
 Bethesda, Maryland 20209

TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the Online Services Reference Manual 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.

MeSH IN
CANCERLIT

- Online connect hours for searching the regenerated CANCERLIT file will be free for domestic users from July 9 through August 7. Note, though, that page charges resulting from offsearches, offline prints, and automatic SDIs will continue to be assessed.

The regenerated CANCERLIT file has been indexed with MeSH Headings (MH) for records with a publication year of 1980 or later. As a reminder, when searching with a MeSH term in CANCERLIT, you must qualify the term with (MH), e.g.:

CARCINOMA (MH)
PROG:
SS (1) PSTG (3392)

An unqualified term defaults to the text word, e.g.:

CARCINOMA
PROG:
SS (2) PSTG (51494)

However, when exploding a subject heading, do not qualify with (MH), for the program defaults to the individual MeSH term rather than all terms in the hierarchy.

Correct form:	Defaults to brain as a MH:
EXP BRAIN	EXP BRAIN (MH)
PROG:	PROG:
SS (3) PSTG (1258)	SS (4) PSTG (709)

Also, the qualifier (TW) will now retrieve terms from both the Abstract (AB) and Title (TI) fields, while (TF) will retrieve terms from the Title (TI) field only (as before). These features also apply to CANCERLIT automatic SDIs. Users should review stored automatic SDI strategies in view of these changes. A list of Keywords (KW) used as "enrichment terms" will be included with an article in the August issue of the NLM Technical Bulletin.

TELECOMMUNICA-
TIONS NETWORKS

- Because of recent changes in the telecommunications charges for the use of other online systems, several of our users have asked about the possibility of our telecommunications charges also changing. Users are reminded that NLM pays all telecommunications charges for access to our online system. INWATS access is provided for those users who are located in cities without a local telecommunications node. (NLM will not pay long-distance charges incurred for calling a node instead of using INWATS.)

We expect no changes in the near future in our present agreements with the telecommunications providers.

- PRE-EXPLOSIONS FOR 1983 MESH VOCABULARY - Users are invited to suggest pre-explosions for the 1983 MeSH Vocabulary. Please call or write the MEDLARS Management Section with your ideas before July 31, 1982.
- EXPLOSIONS IN SAVESEARCH, STORESEARCH, OR OFFSEARCH - Explosions used in SAVESEARCH, STORESEARCH, or OFFSEARCH will always result in a No Postings message (NP) if the SAVESEARCH, STORESEARCH, or OFFSEARCH is executed against a database that does not permit explosions. No Postings will result even though postings may have been previously received while originally storing the search online. Therefore, exercise caution when storing searches of any kind and include explosions in your strategy only if you plan to use the searches with databases that permit exploding.
- EXPLODING MeSH HEADINGS VS. SUBHEADINGS - In the May 1982 Technical Bulletin, a Technical Note was issued to explain the difference between searching the term 'PH' as a subheading from searching it as the data form for a MeSH heading. It was recommended that whenever searching 'PH' as the MeSH heading, the qualifier (MH) should be used or the system would default to the subheading. One exception should be noted: when exploding 'PH' as a MeSH heading, do not use the (MH) qualifier. The system will issue incomplete postings because it defaults to PH as a MH only and not to all the terms in its hierarchy. The qualification takes precedence over the EXPLODE capability.
- CUMULATED INDEX MEDICUS, 1981 - The annual Cumulated Index Medicus for 1981 is currently available from the Superintendent of Documents, Government Printing Office, Washington, DC 20402. The stock number is 017-052-00225-2 and the price is \$190.00.
- LIST OF JOURNALS REVIEWED FOR CANCERLIT, 1982 - The List of Journals Reviewed for CANCERLIT, 1982 is currently available. This can be obtained by writing the MEDLARS Management Section or the International Cancer Research Data Bank (ICRDB) Program, Westwood Building, 10A-18, Bethesda, Maryland 20205. There is no charge for this publication.

PLEASE TYPE NEWS TO SEE THE MOST RECENT NEWS ITEMS ONLINE

PRICE CHANGES ANNOUNCED

Users were notified by letter early in July that several price changes would become effective October 1, 1982. A copy of the letter and accompanying summary of prices were also included with the June issue of the BULLETIN.

A summary of the changes follows; please note that there is no increase in connect hour rates.

1. Page charges for Offprints will increase \$0.03 per page, as follows:
 - MEDLINE and OTHER DATABASES \$0.18
 - TOXLINE, TOX74, TOX65 0.38 (includes royalty)
 - CHEMLINE 0.48 (includes royalty)

2. Re-institution of charges:
 - OFFSEARCHES (all databases) \$1.00 per OFFSEARCH per file
 - Automatic SDI searches TOXLINE \$2.00 execution charge per month (includes \$1.00 royalty)
 - All databases except TOXLINE \$1.00 execution charge per month
 - Minimum billing charge per ID code \$15.00 per month

3. The 1982 edition of the ONLINE SERVICES REFERENCE MANUAL will be published and distributed before October 1; all future editions will be available as an NTIS order item only.

TRAINING CLASSES ANNOUNCED

The NLM Online Services Training Class schedule has been confirmed for the remainder of the 1982 calendar year.

The schedule will be as follows:

Aug 2-6	Initial	Nebraska
Aug 9-13	Advanced	UCLA
Aug 16-20	Advanced	NLM
Aug 23-25	3-day Initial	RML 7 in Chicago (by Nebraska)
Aug 30-Sep 3	Initial	NLM
Sep 8-10	3-day Advanced	RML 3 in Philadelphia (by NLM)
Sep 13-17	Initial	UCLA
Sep 29-Oct 1	3-day Initial	RML 9 in Dallas (by Nebraska)
Oct 4-8	Initial	NLM
Oct 13-15	3-day Initial	NLM
Oct 25-29	Initial	NLM
Nov 15-19	Initial	NLM
Nov 29-Dec 3	Advanced	NLM
Dec 6-10	Initial	NLM

For additional information or requests for application forms, please contact the MEDLARS Management Section.

POPULATION INDEX ADDED TO POPLINE

Ann J. Preiss

The Johns Hopkins University, MEDLARS Management Section, NLM

In March, 1982, citations from Population Index, the quarterly bibliographic journal published by the Office of Population Research, Princeton University, were added to POPLINE. These 15,000 citations represent issues of Population Index published from 1978 through the first quarter of 1981. By November of this year, the remainder of the 1981 records will be added as well as records through 1982. Regular updating with Population Index citations is scheduled to begin in August 1982.

Population Index was first published in 1935. It is an annotated bibliographic journal that provides comprehensive coverage of demographic literature with particular emphasis on publications in the Western and Slavic languages. Specific subject coverage includes demographic methods and theories, population size and growth, spatial distribution, mortality, fertility, nuptiality, family size, migration, historical demography, population characteristics, demographic inter-relations with economic and social factors, population policy, official vital statistics, and population censuses. The work of collecting and abstracting bibliographic material for Population Index is funded by the Center for Population Research, National Institute of Child Health and Human Development, National Institutes of Health. The support for the contribution to POPLINE comes from the United States Agency for International Development.

Although there is some overlap between the subjects covered by Population Index, the Population Information Program (PIP) of Johns Hopkins University, and the Center for Population and Family Health Library/Information Program (CPFH) of Columbia University, a thorough selection process is being followed to avoid duplication of records as far as possible.

Many of the records input from earlier Index volumes do not contain abstracts. Because of this, the percentage of POPLINE records that have abstracts has dropped from about 90 per cent to approximately 80 per cent. However, citations from 1981 forward do have online abstracts.

The Index material has been indexed with its own controlled vocabulary, which is listed in the front of the POPLINE Thesaurus. Beginning with the 1981 material, any term from the POPLINE Thesaurus may be used for indexing. Remember that these vocabulary terms must be qualified with (KW) when searching. Additionally, each term from the Index vocabulary has been mapped to an appropriate MeSH Heading; therefore, MeSH Headings can also be used for searching.

Each citation that is from Population Index is identified in the Secondary Source Identifier field (SI) with an alpha acronym of IND followed by a slash and an internal accession number. However, Princeton University, unlike PIP and CPFH, does NOT necessarily hold material from Population Index or provide copies on request. The editors of the Index will be pleased to supply information concerning additional interlibrary loan sources for items that are difficult to obtain locally.

For more information about the Population Index contact the editors at Princeton University. More information about POPLINE can be obtained from MEDLARS Management Section or from any of the three contributing organizations whose addresses are shown below.

Population Information Program (PIP)
The Johns Hopkins University
624 North Broadway
Baltimore, Maryland 21205

Library/Information Program
Center for Population and Family Health (CPFH)
Columbia University
60 Haven Avenue
New York, New York 10032

Population Index
Office of Population Research
Princeton University
21 Prospect Avenue
Princeton, New Jersey 08544

SAMPLE RECORD:

1
SI - IND/017323
AU - Grant J ; Zelenietz M
TI - Changing patterns of wage labor migration in the Kilense area of Papua New Guinea
GN - PI vol. 47, accession no. 1623
LA - ENG
PT - Journal Article
MH - *Emigration and Immigration ; *Employment ; *Papua New Guinea ; *Residential Mobility ;
*Socioeconomic Factors
DA - 820311
DP - 1980
TJ - International Migration Review
UI - 00105629
PG - 215-234
IP - 2
VI - 14
AB - Using data obtained from a village census completed in 1977, the authors examine the importance of economic and social factors in migration decisions in the village of Onsaia, Papua New Guinea. The effects on migration of opportunities at place of destination, pressures in place of origin, and connections between town and village are investigated; motivations for return migration are discussed
EM - 8203
KW - *INTERNAL MIGRATION ; *PAPUA NEW GUINEA ; *PAPUA NEW GUINEA ; *MIGRATION, INTERNAL ; *LABOR FORCE ; *SOCIOECONOMIC FACTORS ; *TEMPORARY MIGRATION
SO - International Migration Review. 1980;14(2):215-234.

MESH CHANGES AFFECTING OLD STORESEARCHES THAT CONTAIN
CERTAIN CHEMICALS IN SINGULAR FORM
Clifford A. Bachrach, M.D., Head, Medical Subject Headings

It has come to our attention that there are a few persons who may be losing citations from their automatic SDI searches or storesearches because of changes in a limited number of D category MeSH terms.

Most of the chemicals in the left column of the following table were originally in MeSH in singular form. On the date shown, the MeSH heading was changed from singular to plural form. The singular was retained as a "non-print" entry term so that existing storesearches would still operate, retrieving the class of substances represented by the plural term. However, the singular form no longer appeared in the printed MeSH, even as an entry term.

At a later date (shown in the right-hand column), the singular entry term was deleted from the record so that a separate "Chemfile" record could be created for the specific chemical entity represented by the singular term. From this date on, any stored search that contains only the singular form will no longer retrieve citations either to the specific substance represented by the singular, or to the class of substances represented by the plural. To retrieve the chemical entity, one must append (NM) to the singular. To retrieve the class of substances, the search must now contain the descriptor in plural form. To retrieve total postings to the specific chemical as well as the class, one must "or" the terms: class (MH) or specific (NM).

For example:

A search that included SALICYLIC ACID would have retrieved citations concerned with both that specific entity, and with salicylic acids as a class, until July 1981. Since that date, a search must include SALICYLIC ACID (NM) to retrieve citations about the specific. It must include SALICYLIC ACIDS to retrieve citations about all other entities within the class, i.e. SALICYLIC ACIDS OR SALICYLIC ACID (NM).

These changes were introduced in instances where it appeared likely that MEDLINE users would want to search the chemical entity separately from the class.

Users of Index Medicus are unaffected by these changes because the citations indexed with the singular "Chemfile" term are added to those that appear under the plural heading in the printed Index Medicus.

Table follows.....

PLURAL MESH HEADINGS FROM WHICH A SINGULAR (NON-PRINT) ENTRY TERM
HAS BEEN DROPPED TO BECOME A CHEMFILE RECORD

<u>PLURAL TERM (MH)</u>	<u>Date changed from singular</u>	<u>SINGULAR TERM (EN)</u>	<u>SINGULAR EN DELETED from (MH) and ENTERED into CHEMFILE</u>
Adipic Acids	1975	Adipic Acid	6/81
Anthranilic Acids	1975	Anthranilic Acid	6/81
Arachidonic Acids	1975	Arachidonic Acid	7/81
Benzidines	1977	Benzidine	6/81
Benzylamines	(never singular)	Benzylamine	8/81
Catechols	1975	Catechol	4/82
Cholic Acids	1975	Cholic Acid	12/81
Cyclopropanes	1975	Cyclopropane	8/81
Formamides	1975	Formamide	8/81
Hydroxyapatites	1975	Hydroxyapatite	7/81
Hypoxanthines	(never singular)	Hypoxanthine	11/81
Indoleacetic Acids	1975	Indoleacetic Acid	7/81
Levulinic Acids	1975	Levulinic Acid	11/81
Linoleic Acids	1975	Linoleic Acid	7/81
Linolenic Acids	1975	Linolenic Acid	12/80
Malates	(never singular)	Malic Acid	7/81
Nicotinic Acids	1975	Nicotinic Acid	7/81
Octanoic Acids	(never singular)	Octanoic Acid	9/81
Oleic Acids	1975	Oleic Acid	7/81
Palmitic Acids	1975	Palmitic Acid	7/81
Phenylhydrazines	1975	Phenylhydrazine	7/81
Phenylpyruvic Acids	1975	Phenylpyruvic Acid	9/81
Phthalic Acids	1975	Phthalic Acid	12/81
Quinolinic Acids	(never singular)	Quinolinic Acid	9/81
Resorcinols	1975	Resorcinol	10/81
Ricinoleic Acids	1975	Ricinoleic Acid	7/81
Salicylic Acids	1975	Salicylic Acid	7/81
Sialyltransferases	1979	Sialyltransferase	7/81
Stearic Acids	1975	Stearic Acid	8/81
Xanthines	(never singular)	Xanthine	11/81

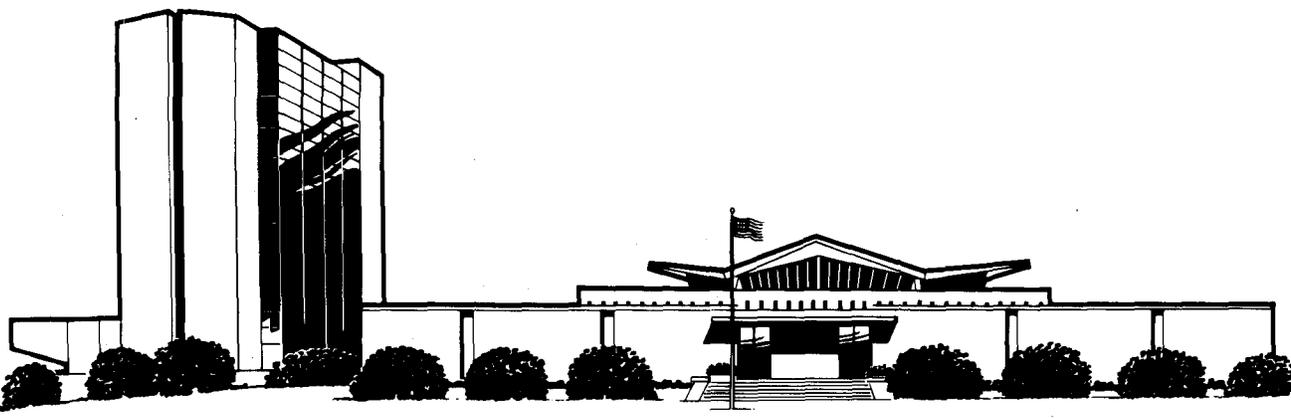
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*CHEMLINE	534,112		11 AUG 82	8207(EM)
*CLINPROT	3,195		23 JUL 82	8207(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
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*HISTLINE	50,464		28 JUN 82	8206(EM)
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*NAME AUTH	134,801		23 AUG 82	
*POPLINE	102,764	1970-AUG 82	16 AUG 82	8208(EM)
*RTECS	53,425	1979 ED.-APR 82	01 JUN 82	
SDILINE	22,993	SEP 82	02 AUG 82	
*SERLINE	39,710	1982	11 AUG 82	
*TDB	3,764		26 JUL 82	
*TOXLINE	453,980		26 JUL 82	8207(EM)
CBAC	220,525	1979-VOL 96(12,13)		
TOXBIB	74,806	1979-AUG 82		
IPA (ASHP)	15,163	1979-VOL 19(9,10)		
HEEP	34,700	1979-VOL 11(8)		
PESTAB	8,209	1979-VOL 14(DEC 81)		
EMIC	34,796	1950-OCT 81		
ETIC	24,895	1950-MAY 82		
RPROJ	28,306	1979-FEB 82		
TD3	11,704	GRA & I 82(12,13)		
*TOXBACK74	474,653		19 APR 82	
CBAC	265,253	1974-1978		
TOXBIB	103,386	1974-1978		
IPA (ASHP)	30,606	1974-1978		
HEEP	61,871	1974-1978		
PESTAB	13,537	1974-1978		
+TOXBACK65	387,377		19 APR 82	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1969-1973		
HEEP	29,662	1970-1973		
HAPAB/PESTAB	12,966	1968-1973		
HAYES	10,039	1940-1968		
TMIC	4,552	1940-1973		

1) * = NLM ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

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 Assistant Editor: Rose Marie Woodsmall
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 301/496-6193

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 National Library of Medicine
 8600 Rockville Pike
 Bethesda, Maryland 20209

TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the 1982 Online Services Reference Manual 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.

LABOR DAY
HOLIDAY
SCHEDULE

- On Monday, September 6, 1982, both the NLM and SUNY computers will be down in observance of the Labor Day holiday.

CANCERLIT
SDIs

- With the July 9, 1982 regeneration of CANCERLIT, citations contain MeSH headings as part of the unit record. Subsequent Automatic SDI searches numbered in the series C401 through C600 will have MeSH headings included in the printout. The presence of MeSH headings will add an average of 5 or 6 lines to each record. In view of this fact, you may wish to submit a request to override the prespecified print format for searches numbered C401 through C600. For information on overriding print specifications for a number range, see the article "Automatic SDI Service: New Features for 1982" by Joseph Leiter, Ph.D. in the NLM Technical Bulletin, December 1981, pages 6-7. See the article on page 5 of this issue for further details about the CANCERLIT regeneration.

1982 EDITION
OF THE ONLINE
SERVICES
REFERENCE MANUAL

- The 1982 edition of the Online Services Reference Manual is now available. One free copy was mailed to each User ID code in August. After October 1, 1982, all copies, including new user copies, must be purchased from the National Technical Information Service (NTIS). The cost is \$15.00 per copy. The accession number is PB82-127861. Please note that copies obtained through NTIS will not have Section dividers.

MEDLARS
INDEXING MANUAL
REPLACEMENT
PAGES

- A limited number of copies of the 1983 revised replacement pages for the MEDLARS Indexing Manual are available by writing to MEDLARS Management Section. Please include a self-addressed mailing label for the request to be processed.

The Indexing Manual, which is in two parts, was specifically developed for use by MEDLARS indexers; however, interested searchers may obtain copies of Parts I and II from NTIS [Part I (1976), PB-254-270, \$7.25; Part II (1981), PB81-136491, 15.00]. Part I contains the general bibliographic principles governing the citation of articles in Index Medicus and other MEDLARS products; Part II covers the rules governing the technical analysis and indexing of journals cited in Index Medicus and other MEDLARS products.

- CLINPROT INDEX TERMS - The list of CLINPROT Index Terms for July, 1982 is available on request from MEDLARS Management Section or by writing the International Cancer Research Data Bank Program, 5333 Westbard Avenue, Westwood Building-10A18, Bethesda, MD 20205.
- ERRATA - In the July 1982 issue of the Technical Bulletin, p. 8, there was an error in the article, "MESH CHANGES AFFECTING OLD STORESEARCHES THAT CONTAIN CERTAIN CHEMICALS IN SINGULAR FORM." The last two sentences in the third paragraph should read, "To retrieve total postings to the specific chemical as well as to the class, one need only search on the MH for the class. All articles indexed to the specific chemical substance (NM) are automatically indexed to the class containing that compound." This change also affects the example following that sentence. To retrieve postings to the specific substance, one must search that substance as the NM, e.g., SALICYLIC ACID (NM). To retrieve the class, including the specific substance, search SALICYLIC ACIDS (MH).
- CHEMLINE REGENERATION - CHEMLINE has been regenerated a second time this year to update a substantially large number of file locator values in the Locator (LO) and Other CAS Registry Number (ON) fields caused by changes in TOXLINE during its recent regeneration. Some bibliographic records were moved from TOXLINE to TOXBACK74 and a number of duplicate records were removed from the files. Many of the deleted records contained CAS Registry Numbers that occurred nowhere else in the NLM files and were no longer eligible for inclusion in CHEMLINE. Some 4,500 CAS Registry Number records have been removed from CHEMLINE reducing the number to 534,112. The file location values in the LO and ON fields now correspond to the regenerated TOXLINE files.
- NEW MESH VOCABULARY FILE DATA ELEMENT - A new data element is planned for the MeSH Vocabulary File. It will be called Indexing Information (II), and will be present on chemical term unit records only. The field will contain a MeSH Heading or MeSH Heading/subheading combination that the indexer should consider adding to the indexing data entry form. This information is in addition to the Pharmacological Action (PA) terms already provided on these records.
- ADDITIONAL CLASSES ANNOUNCED - The following additional classes have been added to the 1982 online services training schedule:
- | | | |
|----------|---------------|------|
| Initial | November 8-12 | UCLA |
| Advanced | December 6-10 | UCLA |
- MESH TOOLS, 1983 - The following 1983 MeSH tools may now be ordered from NTIS:
- | | | |
|---------------------------------|-------------|---------|
| Annotated Alphabetic MeSH, 1983 | PB82-232752 | \$17.00 |
| Tree Structures, 1983 | PB82-232745 | \$12.00 |
- PHONES LIST - An updated list of available telephone numbers used to access the NLM and SUNY computers is enclosed as Appendix A.

CANCERLIT REGENERATION - JULY 1982
 Donna J. Wicker, National Cancer Institute (NCI)

On July 9, a regenerated CANCERLIT database was made available to MEDLARS users. The regenerated file contained 301,801 records (after removal of approximately 2,000 duplicates) and increased to a total of 306,611 records following the July update, 8207 (EM), one week later.

The most important change made to CANCERLIT during the regeneration was the expansion of subject searching capabilities, through the addition of MeSH vocabulary and special cancer "enrichment" terms.

MeSH Term Indexing

MeSH terms have been added to 98.5% of all records added to CANCERLIT since January 1980. Of the 1.5% input after January 1980 without MeSH, most were cancer articles selected by our contractors before November 1979, when MeSH indexing began.

In real numbers: 110,464 records were input to CANCERLIT from February through July, i.e., 8002 (EM) through 8207 (EM); 108,744 records contain MeSH indexing terms. [Note: There are a few pre-8002 (EM) records with MeSH headings.]

NCI contractors have been instructed to follow the same indexing procedures used for MEDLINE, as outlined in the MEDLARS Indexing Manual, with one exception. NCI indexers will always index, in depth, the cancer-related section of an article whether it is the major point of the article or not.

For example, if an article eight pages long primarily discusses pancreatitis but devotes three pages to discussing pancreatic cancer, the MeSH index terms appearing in the CANCERLIT record will reflect the cancer perspective of the article with just a few terms addressing the pancreatitis aspect.

To search on MeSH Headings (MH) in CANCERLIT you must qualify the subject heading, e.g.:

BIOPSY (MH)
 PROG:
 SS (1) PSTG (2212)

If you do not qualify the subject heading, the system will default to the Text Word (TW) field, e.g.:

BIOPSY
 PROG:
 SS(2) PSTG (12725)

However, when exploding a MeSH heading, do not qualify with (MH), for the program defaults to the individual MeSH term rather than all of the terms in the hierarchy.

Remember: Using the (MH) field for subject searching will automatically limit your retrieval to the most recent cancer literature, but the existence of the MeSH headings on recent input provides a handy mechanism for improving those difficult free-text searches in CANCERLIT. After retrieving recent literature using MeSH vocabulary, you can scan the titles of your retrieval and identify key Title Words (TF) to use in retrieving the older literature.

Enrichment Term Indexing

In the latter part of 1979, a list of terms was developed by NCI indexers for cancer concepts that were not covered by MeSH or concepts that required the coordination of main headings, or the use of main heading/subheading combinations. We began using the list in 1980.

The list, which originally contained about 60 terms, now contains 49 terms. New terms can be added to the list at any time, but deletions are made just once each year in December, at which time the list is revised for the new input year. A term is deleted if it becomes a MeSH term or if it was used infrequently during the previous year.

Enrichment terms are not assigned in place of MeSH terms. If an enrichment term exists for a cancer concept which is handled by a main heading plus a main heading/subheading combination, the MeSH terms are still used to index that record. The enrichment term is added in addition to the MeSH terms.

Enrichment terms appear in the Keyword field and must be qualified with the mnemonic (KW). You may occasionally find a Keyword that also appears in the inverted file as a MeSH Heading. Although enrichment terms are removed from our list when they become Main Headings, the terms are not removed from the records to which they were assigned while the term was still on the list. During the two years we have been adding enrichment terms, about 18% of our records have had one or more of these special terms assigned.

A list of the current year's Enrichment Terms appears at the end of this article.

Text Words and Title Words

The Text Word (TW) field now contains terms from the title as well as from the abstract. An unqualified subject term will default to the Text Word (TW) field, unless the term also happens to be a Journal Title (TA). When this occurs, you will get a Multi-Meaning Message, e.g.:

```
BREAST
PROG:
MM (BREAST) (2)
      1 BREAST (TW)
      2 BREAST (TA)
SPECIFY NUMBERS, ALL, OR, NONE-
```

Please note that BREAST is also a MeSH Heading (MH) and a Title Word (TF), but this information does not appear in the MM Message. You must go into the inverted file to find out if a subject term is a MeSH Heading (MH) or a Title Word (TW):

NBR BREAST
 PROG:

POSTINGS	TERM
- 612	BREAST (MH)
11239	BREAST (TF)
20843	BREAST (TW)
149	BREAST (TA)

Verifying CANCERLIT/MEDLINE Duplicate Citations

If you are performing comparative searches in CANCERLIT and MEDLINE, the titles of duplicate citations may not be identical if the original item is in a foreign language. This is because indexers or authors may have translated the title differently. To verify duplication, check the Source (SO) data element or the Transliterated/Vernacular Title (TT). NCI began adding the Transliterated/Vernacular Title (TT) data element to foreign language citations during the latter half of 1980.

For example, this CANCERLIT item:

TI - EFFECT OF HEMORRHAGIC DIATHESIS ON HEMOPOIESIS IN
 HEMOBLASTOSIS OF APES.
 TT - GEMORRAGICHESKII DIATEZ I KROVETVORENIE PRI GEMOBLASTOZE
 PAVIANOV GAMADRILOV.
 SO - VOPR ONKOL; 27(11):50-56 1981

is the same as this MEDLINE item:

TI - [HEMORRHAGIC DIATHESIS AND HEMATOPOIESIS IN PAPIO
 HAMADRYAS WITH HEMOBLASTOSES]
 TT - GEMORRAGICHESKI:I DIATEZ I KROVETVORENIE PRI GEMOBLASTOZE
 PAVIANOV GAMADRILOV.
 SO - VOPR ONKOL 1981;27(11):50-6

Most of the remaining changes to CANCERLIT consisted of error corrections in the Publication Type (PT) field, the ISSN (IS) field, and the Entry Month (EM) field. We hope the changes to CANCERLIT have improved its usefulness to MEDLARS users. Your comments are welcome.

. . .Continued next page

New Enrichment Terms 1982

ANTIGENS, FETAL
 BIOLOGICAL MARKERS
 CARCINOGEN ACTIVATION
 CARCINOGEN SCREENING
 CARCINOGENESIS
 CARCINOGENESIS, TRANSPLACENTAL
 CARCINOGENS, DIETARY
 CARCINOMA, LARGE CELL
 CELL DOUBLING TIME
 CELL SYNCHRONIZATION
 CHEMICAL CARCINOGENESIS TESTS
 DNA DAMAGE
 DRUG BINDING
 DRUG-RADIATION INTERACTIONS
 EFFECTOR CELLS
 HOST TISSUE-NEOPLASM INTERACTIONS
 INJECTIONS, INTRATUMORAL
 LATENT PERIOD
 LEUKEMIA, BLASTIC PHASE
 LEUKEMIA, PROMYELOCYTIC
 LYMPHOMA, NON-HODGKIN'S
 MUTAGEN ACTIVATION
 NEOPLASM DIFFERENTIATION
 NEOPLASM LATERALITY
 NEOPLASM MALIGNANCY
 NEOPLASMS, ADVANCED
 NEOPLASMS, DISSEMINATED
 NEOPLASMS, EARLY
 NEOPLASMS, LOCALIZED
 NEOPLASMS, SOLID
 NEOPLASMS, UNKNOWN PRIMARY
 NITROSATION
 NONSEMINOMATOUS GERM CELL TUMORS
 PHARMACOKINETICS
 PHASE I TRIALS
 PHASE II TRIALS
 PHASE III TRIALS
 POSTMENOPAUSAL PERIOD
 PRECURSOR CELLS
 PREGNANCY COMPLICATIONS, NEOPLASTIC (1983 MeSH Descriptor)
 PREOPERATIVE PERIOD
 PYROLYSIS PRODUCTS
 STRAIN SPECIFICITY
 TARGET CELLS
 THERAPY, COMBINATION
 THERAPY, POSTOPERATIVE
 THERAPY, PREOPERATIVE
 TUMOR SIZE
 VIRUS PRODUCING CELLS

TOXLINE CBAC SUBFILE COMPOSITION FOR 1982
 Carolyn G. McHale, Specialized Information Services, NLM

Changes in the selection of Chemical Abstracts sections for inclusion in TOXLINE occurred in 1982. (Please see the NLM Technical Bulletin, April 1982, pages 10-12, "Changes in the CBAC Subfile of TOXLINE.") In addition to the Chemical-Biological Activities (CBAC) tapes, NLM now acquires the CA Search tapes from Chemical Abstracts Service. CA Search is a database that contains the basic bibliographic information appearing in the printed Chemical Abstracts. This has provided us the opportunity to review sections/subsections previously unavailable. Some of these sections have been added to TOXLINE; this selection was further refined to include only specific subsections.

The primary difference between the citations from these two sources, CBAC and CA Search, is the presence or absence of abstracts. All CBAC sections have abstracts in the (AB) field of TOXLINE. Sections taken from CA Search do not have abstracts. In place of the abstract, Textwords from the CAS keyword field, concept headings, and Text Modification data fields have been placed in the (AB) field. These terms are searchable as Text Words (TW).

COVERAGE SUMMARY

Because these changes have evolved during 1982, this year's updates to TOXLINE have different coverage. A summary follows:

<u>Entry Month</u>	<u>Coverage</u>
8201	CBAC sections <u>only</u>
8202	
8203	
8204	CBAC
8205	CA Search - <u>all subsections</u> listed below
8206	CBAC sections <u>only</u>
8207	CBAC CA Search - selected subsections as listed below

SECTION COVERAGE SUMMARY - 1982

CHEMICAL-BIOLOGICAL ACTIVITIES SECTIONS

<u>SECTION</u>	<u>TITLE</u>
CA 101	PHARMACOLOGY
CA 102	MAMMALIAN HORMONES
CA 103	BIOCHEMICAL GENETICS
CA 104	TOXICOLOGY
CA 105	AGROCHEMICAL BIOREGULATORS
CA 162	ESSENTIAL OILS AND COSMETICS
CA 163	PHARMACEUTICALS
CA 164	PHARMACEUTICAL ANALYSIS

SELECTED SECTIONS/SUBSECTIONS FROM CA SEARCH

SECTION/SUBSECTION	TITLE
108 all subsections	RADIATION BIOCHEMISTRY
(114 - MAMMALIAN PATHOLOGICAL BIOCHEMISTRY)	
114 002	SURGERY & TRAUMA
114 006	HEMATOLOGY & RETICULOENDOTHELIAL SYSTEM DISEASES
114 014	IMMUNOLOGICAL DISEASES
(117 - FOOD & FEED CHEMISTRY)	
117 001	ANALYSIS
117 003	REGULATIONS & STANDARDS
117 005	CONTAMINANTS & TOXICANTS
(118 - ANIMAL NUTRITION)	
118 002	VITAMINS
159 all subsections	AIR POLLUTION & INDUSTRIAL HYGIENE
160 all subsections	SEWAGE AND WASTES
(161 - WATER)	
161 000	REVIEWS
161 002	WATER POLLUTION
161 003	ANALYSIS
161 007	BOILER WATER & OTHER INDUSTRIAL WATER NEEDS
161 009	ATMOSPHERIC PRECIPITATION
161 010	OTHER
(171 - NUCLEAR TECHNOLOGY)	
171 010	HEALTH PHYSICS & SAFETY
171 011	RADIOACTIVE WASTES & WASTE TREATMENTS

PLEASE TYPE NEWS TO SEE THE MOST RECENT NEWS ITEMS ONLINE

NLM Online Users' Meeting
Medical Library Association Annual Meeting
Anaheim, California - June 14, 1982

The following questions are those that were posed at the recent NLM Online Users' Meeting held at the Annual Meeting of the Medical Library Association in Anaheim, California. The answers are formal responses drafted after the meeting.

1. Q. Region X (Pacific Northwest) users have reported difficulties using the TELENET/TYMNET WATS lines (800 numbers) when accessing NLM or SUNY. What is the problem?

A. There has been an ongoing problem across the country with the TELENET "800" WATS number in recent months that has been reported to TELENET. TELENET has provided MMS with alternate numbers to use while the regular "800" numbers are not working. Since the WATS numbers remain only for the use of individuals who do not have a local TELENET or TYMNET phone number to call for access to NLM or SUNY, MMS cannot publish the alternate numbers. Users who currently access the NLM or SUNY computers using the TELENET WATS line, and who have not already been given the alternate numbers, should contact the MEDLARS Management Service Desk for the temporary alternate numbers.

To our knowledge, there is no ongoing problem with the TYMNET "800" number so this can be used by all users who access NLM or SUNY using TELENET/TYMNET WATS lines.

Users are reminded that whenever they experience difficulty with the telecommunications access lines of TELENET or TYMNET, they should call the MEDLARS Management Service Desk to report the problem. Please be ready to provide the Service Desk with the name of the network you are dialing, the speed of transmission, and the port number, if available. Port numbers can be found on your terminal printout as follows:

TELENET

Telenet

202 5A (port number; occurs after 2 carriage returns on initial login)

TYMNET

PLEASE TYPE YOUR TERMINAL IDENTIFIERS (enter terminal identifier, no carriage return)

1054-8923 (port number; occurs after typing terminal identifier)

2. Q. Approximately 100,000 records from the CATLINE file have never been loaded in OCLC. When will these records be transmitted to OCLC?

A. After the original license agreement for the CATLINE database was signed with OCLC in 1977, the entire CATLINE file back to 1965 was sent to OCLC. OCLC did not load any CATLINE records until August 1979 when they began adding the current monographic records. NLM understands that OCLC will not load the remainder of the CATLINE database (1965 - August 1979) until they can implement software for a duplicate checking and record consolidation routine that would minimize the number of CATLINE records that duplicate

Library of Congress MARC records and those input by member libraries from NLM copy. Because of the length of time that has passed since the original pull of CATLINE for OCLC, NLM is prepared to re-pull current copies of the records as soon as OCLC notifies us of the intention to load these records.

3. Q. When will an updated Online Services Reference Manual be available? When will MEDLEARN be updated?

A. The 1982 version of the Online Services Reference Manual is available. One free copy has been sent to each User ID code. Beginning October 1, 1982, all users requiring original and/or additional copies of the Manual will be required to purchase them from the National Technical Information Service (NTIS). The publication number is PB82-127861; the price is \$15.00.

MMS is currently in the process of updating MEDLEARN for the 1983 vocabulary. This updated version should be available in the coming months. At this time a major revision of MEDLEARN is not possible.

4. Q. When telecommunication problems are encountered that result in a disconnect, can credits be given for lost time?

A. Due to the costs involved, a credit cannot be given when a user is accidentally disconnected from the system. If the TELENET or TYMNET phone number or node being used has persistent problems with disconnects, please report the line to the MEDLARS Management Service Desk giving the area code, phone number of the node, and the port number(s). The problem should be reported as soon as possible so that appropriate action can be taken to rectify it in a timely fashion.

5. Q. Is NLM planning to make access to NLM and SUNY available through the new telecommunications system UNINET?

A. NLM is currently investigating access through UNINET.

6. Q. What is NLM's position regarding PAPERCHASE?

A. NLM has supported the development of PAPERCHASE under a grant. Based on a peer review assessment, additional grant support for further extension has been provided. Both NLM and its consultants believe that PAPERCHASE is an important development in providing online access to end users and to librarians who have more limited needs to access MEDLINE. NLM has no plans at this time to implement its use as part of its network activity.

7. Q. How would one go about purchasing PAPERCHASE? Also, how do we respond to physicians who've read about PAPERCHASE in the New England Journal of Medicine?

A. Questions regarding purchase or use of the software should be addressed to Dr. Howard Bleich at Beth Israel Hospital, Boston, Massachusetts.

8. Q. How could a hospital obtain a tape of a subset of MEDLINE?
What will be the price of leasing subsets of databases?

A. The National Technical Information Service (NTIS) leases tape copies of all the NLM databases. NLM has not established a policy on leasing subsets of databases and the appropriate prices to charge.

9. Q. What criteria does NLM use in indexing nursing journals? What is NLM's policy concerning missing issues of nursing journals?

A. NLM follows the same policy in indexing Index Medicus (IM) nursing journals as it does in indexing the other MEDLINE journals. When missing issues of MEDLINE nursing journals indexed for Index Medicus are identified, the title is claimed from the publisher and is indexed on receipt at NLM. Missing issues of Special List Nursing titles, i.e., N(LI) titles, are claimed and indexed by the American Journal of Nursing Company. In either case, if a user notices a gap in MEDLINE of a particular title, please report this to MEDLARS Management Section and it will be investigated.

10. Q. When will the Title Word (TF) and Text Word (TW) problem in CANCERLIT be fixed? Are there plans to add Registry Numbers (RN) to the file?

A. The Title Word (TF)/Text Word (TW) problem that has existed in the CANCERLIT database was fixed with the regeneration of CANCERLIT in June 1982. Now, when one searches on Text Words, retrieval is from words generated from the Title and the Abstract; no qualifier is necessary. Title Words (TF) are uniterms generated from the Title field only. When searching Title Words, the (TF) qualifier must be used. Searching for Title Words (TF) results in narrower retrieval than a Text Word (TW) search. (Please see the detailed article on the regenerated CANCERLIT database, page 5 of this issue.)

NCI plans to add CAS Registry Numbers (RN) to CANCERLIT in the future; however, no firm date has been set.

11. Q. What is NLM's photocopy policy on MEDLINE printouts?

A. If the printouts contain no abstracts, they may be reproduced freely. If they contain abstracts, the user should consult counsel concerning the use to which the material is to be put.

12. Q. What is the time lag from the time a journal is received at NLM to the time it is available online? Is there a core list of journals that are indexed faster than others?

A. There is a core list of journals that receives special attention regarding throughput. These include such titles as Lancet, British Medical Journal, JAMA, and New England Journal of Medicine; all are included in Abridged Index Medicus. The average throughput time for these journals from the time they are received at NLM until the citations appear in MEDLINE is 60 days.

13. Q. Is a list of Priority 1 journals available?
- A. The priority of any Index Medicus journal is available in SERLINE. Abridged Index Medicus represents approximately half of the total Priority 1 journals.
14. Q. Will DOCLINE be available prior to the availability of the enhanced MEDLARS system?
- A. A prototype of DOCLINE is now in operation at five Regional Medical Libraries. After a sufficient test period, the system will be reviewed and then perhaps its availability will be increased.
15. Q. When will NLM implement adjacency searching?
- A. This capability is planned for implementation with the enhanced MEDLARS system.
16. Q. Is it possible to enhance the MeSH Vocabulary to allow for better searching by type of study or specific methodology?
- A. Please send ideas and examples of the types of articles covering this to Dr. Clifford Bachrach, Head, MeSH Section.

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - July 1982
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. 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. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

IM ACTA OTORHINOLARYNGOLOGICA ITALICA
 1N1,1981--
 SOCIETA ITALIANA DI OTORINOLARINGOLOGIA E
 CHIRURGIA CERVICO-FACCIALE
 OFFICIAL ORGAN OF THE SOCIETA ITALIANA DI
 OTORINOLARINGOLOGIA E CHIRURGIA
 CERVICOFACCIALE. SUPERSEDES: ANNALI DI
 LARINGOLOGIA, OTOLOGIA, RINOLOGIA,
 FARINGOLOGIA.
 PISA ITALY
 PACINI EDITORE, VIA DELLA FAGGIOLA,
 17-56100 PISA, ITALY (TEL: 050-22723)
 IN PROCESS
 A07750000

ARGOMENTI DI ONCOLOGIA
 1,1980--
 ISTITUTO NAZIONALE PER LO STUDIO E LA CURA
 DEI TUMORI
 MILANO ITALY
 CASA EDITRICE AMBROSIANA, VIA G, FRVA 6,
 20146 MILANO
 IN PROCESS
 A65345000

- IM BIOMEDICINE AND PHARMACOTHERAPY
36N1,1982--
MASSON
CONTINUES BIOMEDICINE AND BIOMEDICINE
EXPRESS.
PARIS FRANCE
IN PROCESS
B18660000
- BIOMETRIE
BD.1,1982--
F.K.SCHATTAUER
STUTTGART GERMANY, WEST
IN PROCESS
B18805000
- DERMATOLOGY SERIES
1,1982--
MARCEL DEKKER
NEW YORK UNITED STATES
ON ORDER
D05970000
- JOURNAL OF BIOELECTRICITY
1N1,1982--
MARCEL DEKKER
NEW YORK UNITED STATES
MARCEL DEKKER, INC., 270 MADISON AVENUE,
NEW YORK, NEW YORK 10016
IN PROCESS
J14270000
\$75.00
- JOURNAL OF OBESITY AND WEIGHT REGULATION
1,1981--
HUMAN SCIENCES PRESS
NEW YORK UNITED STATES
ON ORDER
J32555000
\$66.00
- JOURNAL OF OPHTHALMIC NURSING AND TECHNOLOGY
1N1,MAY 1982--
CHARLES B. BLACK
THOROFARE NJ UNITED STATES
CHARLES B. BLACK, INC., 6900 GROVE ROAD,
THOROFARE, NEW JERSEY 08086
ON ORDER
J32825000
\$20.00
- JOURNAL OF PHOTOACOUSTICS
1N1,1982--
MARCEL DEKKER
SPLIT FROM SPECTROSCOPY LETTERS.
NEW YORK UNITED STATES
MARCEL DEKKER, INC., 270 MADISON AVENUE,
NEW YORK, NY 10016
IN PROCESS
J34750000
\$11.20
- IM JOURNAL OF TOXICOLOGY. CLINICAL TOXICOLOGY
19N1,1982--
MARCEL DEKKER
CONTINUES: CLINICAL TOXICOLOGY.
NEW YORK UNITED STATES
IN PROCESS
J40515000
- JOURNAL OF TOXICOLOGY. CUTANEOUS AND
OCULAR TOXICOLOGY
1N1,1982--
MARCEL DEKKER
NEW YORK UNITED STATES
MARCEL DEKKER, INC., 270 MADISON AVE., NEW
YORK, NY 10016
ON ORDER
J40517000
\$111.50
- JOURNAL OF TOXICOLOGY. TOXIN REVIEWS
1N1,1982--
MARCEL DEKKER
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- MASS SPECTROMETRY REVIEWS
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JOHN WILEY AND SONS
NEW YORK UNITED STATES
WILEY-INTERSCIENCE JOURNALS, 605 THIRD
AVE.,NEW YORK, NY 10158
ON ORDER
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\$100.00
- SEMINARS IN ANESTHESIA
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GRUNE AND STRATTON
NEW YORK UNITED STATES
GRUNE AND STRATTON, 111 FIFTH AVE, NEW
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PHONES LIST

UNLESS OTHERWISE NOTED, THE SPEED OF THE NUMBERS IS 10-30 CHARACTERS PER SECOND (CPS).

* = DIRECT DIAL NUMBER

FOR 120 CPS USE COMPATIBLE MODEMS INCLUDE:

- V3405 = VADIC 3400 SERIES COMPATIBLE. THE FOLLOWING VADIC EQUIPMENT IS COMPATIBLE: VA3455P AND VA3451P MODEMS AND VA3434 COUPLER. THE FOLLOWING ANDERSON JACOBSON EQUIPMENT IS COMPATIBLE: AJ1255 MODEM AND AJ 1234 COUPLER.
- B/V = VADIC SUPER MODEM (V3467) NODE. USERS WITH BELL 103, 113, OR 212A MODEMS OR V3400 SERIES COMPATIBLE MODEMS MAY USE THESE NUMBERS. NOTE: BELL 103 AND 113 ARE LOW SPEED MODEMS.
- B202 = INDICATES NODE IS BELL 202C OR 202S DATA SET COMPATIBLE.
- B212A = BELL 212A DATA SET COMPATIBLE.

FOR IBM 2741 TERMINAL ACCESS:

- B = INDICATES THAT BOTH CORRESPONDENCE AND EBCDIC CODED TERMINALS ARE SUPPORTED BY TYMNET. THE USER MUST TYPE A P FOLLOWED BY A CARRIAGE RETURN SO THAT TYMNET CAN DETERMINE THE "CODE" TO BE USED. USE CORRECT TERMINAL IDENTIFIER FOR TELENET ACCESS VIA 2741'S. THE NETWORKS DO NOT SUPPORT BCD CODED 2741'S.

ALL PHONE NUMBERS ARE SUBJECT TO CHANGE OR DELETION WITHOUT PRIOR NOTICE.

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
AK	ANCHORAGE	CONTACT ALASKA TELEPHONE COMPANY FOR ACCESS					
AK	JUNEAU	CONTACT ALASKA TELEPHONE COMPANY FOR ACCESS					
AL	BESSEMER				205/326-3420	B/V	120
AL	BIRMINGHAM	205/942-4141	B/V	120	205/326-3420	B/V	120
AL	FLORENCE				205/766-9101	B/V	120
AL	HUNTSVILLE	205/539-5377	FX B		205/539-2281		
AL	HUNTSVILLE	205/539-3753	FX B/V	120	205/539-2281	B/V	120
AL	MOBILE	205/432-3382	B/V	120	205/432-1680	B/V	120
AL	MONTGOMERY	205/834-3410	FX B		205/265-1500		
AL	MONTGOMERY				205/265-1500	B/V	120
AL	SHEFFIELD				205/766-9101	B/V	120
AR	FT. SMITH	501/782-3210	B/V	120			
AR	JONESBORO	501/932-6886	B212A	120			
AR	LITTLE ROCK	501/372-5780	FX B				
AR	LITTLE ROCK	501/376-3768	B212A	120	501/372-4616	B/V	120
AR	SPRINGDALE	501/756-2201	B/V	120			
AZ	MESA				602/254-0244	B/V	120
AZ	PHOENIX	602/254-5811	B				
AZ	PHOENIX	602/254-5811	B/V	120	602/254-0244	B/V	120
AZ	SCOTTSDALE				602/254-0244	B/V	120
AZ	TEMPE				602/254-0244	B/V	120
AZ	TUCSON	602/790-0764	B		602/745-1666		
AZ	TUCSON	602/747-4097	B/V	120	602/745-1666	B/V	120
CA	ALHAMBRA	213/572-0999	FX B		213/956-8235		
CA	ALHAMBRA	213/280-1103	FX B212A	120	213/507-1006	B/V	120
CA	ANAHEIM				714/558-6061		
CA	ANAHEIM				714/558-7078	B/V	120
CA	ANTIOCH	415/757-6855	FX B				
CA	ARCADIA	213/574-7636	FX B				
CA	ARCADIA	213/574-8834	FX B212A	120			
CA	BAKERSFIELD				805/327-8146		
CA	BAKERSFIELD				805/327-8146	B/V	120
CA	BURLINGAME	415/348-4992	FX B		415/595-0360		
CA	BURLINGAME	415/583-6950	FX B212A	120	415/591-0726	B/V	120
CA	CANOGA PARK				213/306-2984	B/V	120
CA	COLTON	714/370-1200	B/V	120	714/824-9000	B/V	120
CA	CUPERTINO	408/446-7309	B212A	120			
CA	CUPERTINO	408/446-7001	V3405	120	408/279-2425	B/V	120
CA	CUPERTINO	408/446-1470	B		408/279-8450		
CA	CUPERTINO	408/257-0593	CCITT RESTRICTED FOR OVERSEAS USE ONLY				
CA	ES CONDIDO				714/743-1210	B/V	120

NLM TECHNICAL BULLETIN - AUG 82

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
CA	EL MONTE				213/956-8235		
CA	EL MONTE				213/507-0909	B/V	120
CA	EL SEGUNDO	213/640-1281	B				
CA	EL SEGUNDO	213/640-1281	B212A	120			
CA	FRESNO	209/442-4141	FX B/V	120	209/233-0961	B/V	120
CA	FULLERTON				714/558-6061		
CA	FULLERTON				714/558-7078	B/V	120
CA	GARDEN GROVE				714/898-9820		
CA	GARDEN GROVE				714/898-9820	B/V	120
CA	GLENDALE				213/507-0909	B/V	120
CA	HAYWARD	415/785-3431	B/V	120	415/881-1332		
CA	HOLLYWOOD				213/624-5230		
CA	HOLLYWOOD				213/937-3580	B/V	120
CA	HOLLYWOOD				213/689-9040		
CA	HOLLYWOOD				213/624-2251	B/V	120
CA	HUNTINGTON BEACH				714/558-6061		
CA	HUNTINGTON BEACH				714/558-7078	B/V	120
CA	INGLEWOOD				213/624-5230		
CA	INGLEWOOD				213/937-3580	B/V	120
CA	INGLEWOOD				213/689-9040		
CA	INGLEWOOD				213/624-2251	B/V	120
CA	LONG BEACH				213/549-5150		
CA	LONG BEACH	213-435-7088	FX B212A	120	213/548-6141	B/V	120
CA	LOS ALTOS				415/856-9930		
CA	LOS ALTOS				415/856-9995	B/V	120
CA	LOS ANGELES	213/626-0365	B		213/624-5230		
CA	LOS ANGELES	213/626-0365	B212A	120	213/689-9040		
CA	LOS ANGELES	213/626-2400	B212A	120	213/937-3580	B/V	120
CA	LOS ANGELES	213/623-8500	V3405	120	213/624-2251	B/V	120
CA	MARINA DEL REY	213/821-2257	FX B212A	120	213/306-2984	B/V	120
CA	MISSION HILLS	213/365-9277	FX B212A	120			
CA	MODESTO	209/578-4236	B/V	120	209/576-2852	B/V	120
CA	MOUNTAIN VIEW	415/941-8450	B/V	120	415/856-9930		
CA	MOUNTAIN VIEW				415/856-9995	B/V	120
CA	NEWPORT BEACH	714/540-9560	B		714/558-6061		
CA	NEWPORT BEACH	714/540-0951	B212A	120	714/558-7078	B/V	120
CA	NORTHRIDGE	213/998-4872	FX B212A	120			
CA	NORTHRIDGE	213/998-3331	FX B212A	120			
CA	NORWALK	213/865-2066	FX B212A	120			
CA	NORWALK	213/865-0555	FX B212A	120			
CA	OAKLAND	415/836-8700	B/V	120			
CA	OAKLAND	415/836-8900	B212A	120	415/836-4911	B/V	120
CA	OXNARD	805/486-4611	B/V	120	805/659-4660		
CA	OXNARD				805/656-6760	B/V	120
CA	PALM SPRINGS	714/320-0772	FX B				
CA	PALO ALTO	415/966-8550	B/V	120	415/856-9930		
CA	PALO ALTO				415/856-9995	B/V	120
CA	PASADENA	213/577-8722	FX B212A	120	213/956-8235		
CA	PASADENA	213/577-8696	FX B212A	120	213/507-0909	B/V	120
CA	PLEASANT HILL	415/798-2093	B/V	120			
CA	REDWOOD CITY				415/595-0360		
CA	REDWOOD CITY				415/591-0726	B/V	120
CA	RIVERSIDE	714/370-1200	B/V	120	714/824-9000	B/V	120
CA	SACRAMENTO	916/441-6550	B				
CA	SACRAMENTO	916/448-8151	B212A	120	916/448-6262	B/V	120
CA	SALINAS	408/443-4333	B/V	120	408/443-4940	B/V	120
CA	SAN BERNADINO				714/824-9000	B/V	120
CA	SAN CARLOS				415/595-0360		
CA	SAN CARLOS				415/591-0726	B/V	120
CA	SAN CLEMENTE	714/498-3130	FX B				
CA	SAN DIEGO				714/231-1922		
CA	SAN DIEGO	714/296-3370	B/V	120	714/233-0233	B/V	120
CA	SAN FRANCISCO	415/986-8200	B		415/362-6200		
CA	SAN FRANCISCO	415/397-4300	V3405	120	415/956-5777	B/V	120
CA	SAN FRANCISCO	415/788-7955	B212A	120			
CA	SAN JOSE	408/446-1470	B		408/294-9119	B/V	120
CA	SAN JOSE	408/446-7001	V3405	120			
CA	SAN JOSE	408/446-7309	B212A	120	408/279-2425	B/V	120
CA	SAN MATEO				415/595-0360		
CA	SAN MATEO				415/591-0726	B/V	120
CA	SAN PEDRO	213/830-0775	FX B212A	120	213/549-5150		
CA	SAN PEDRO	213/518-3773	FX B212A	120	213/548-6141	B/V	120
CA	SANTA ANA				714/558-6061		
CA	SANTA ANA				714/558-7078	B/V	120
CA	SANTA BARBARA	805/682-9641	FX B		805/682-5361		
CA	SANTA BARBARA	805/682-9641	FX B/V	120	805/682-5361	B/V	120
CA	SANTA CLARA				408/294-9119	B/V	120

NLM TECHNICAL BULLETIN - AUG 82

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
CA	SANTA CRUZ	408/426-8400	FX B/V	120			
CA	SANTA MONICA				213/306-2984	B/V	120
CA	SANTA ROSA	707/546-1050	B				
CA	SANTA ROSA	707/546-6776	B212A	120			
CA	SUNNYVALE				408/294-9119	B/V	120
CA	TORRANCE				213/549-5150		
CA	TORRANCE				213/548-6141	B/V	120
CA	VAN NUYS	213/986-9503	FX B				
CA	VENTURA	805/486-4811	B/V	120	805/656-6760	B/V	120
CA	VISTA	714/727-6011	FX B				
CA	WALNUT CREEK	415/932-0116	B/V	120			
CA	WEST COVINA	213/331-3954	B				
CA	WEST COVINA	213/915-5702	FX B212A	120			
CA	WOODLAND HILLS				213/992-0144		
CA	WOODSIDE				415/856-9930		
CA	WOODSIDE				415/856-9995	B/V	120
CO	AURORA				303/773-8500		
CO	AURORA				303/741-4000	B/V	120
CO	AURORA				303/694-2710	B/V	120
CO	BOULDER				303/773-8500		
CO	BOULDER				303/741-4000	B/V	120
CO	BOULDER				303/694-2710	B/V	120
CO	COLO. SPRINGS	303/475-2121	FX B/V	120	303/634-5676		
CO	COLO. SPRINGS				303/635-5361	B/V	120
CO	DENVER	303/830-9210	B/V	120	303/773-8500		
CO	DENVER	303/830-9116	V3405	120	303/741-4000	B/V	120
CO	DENVER				303/694-2710	B/V	120
CO	LAKEWOOD				303/773-8500		
CO	LAKEWOOD				303/741-4000	B/V	120
CO	LAKEWOOD				303/694-2710	B/V	120
CT	BRIDGEPORT	203/367-6021	B/V	120			
CT	DANBURY	203/743-1340	FX B		203/794-9075		
CT	DANBURY	203/743-1650	B212A	120	203/794-9075	B/V	120
CT	DARIEN	203/655-8931	B				
CT	DARIEN	203/655-7951	B212A	120			
CT	FAIRFLD/BRDGPT	203/333-4926	B212A	120			
CT	GREENWICH				203/357-1800		
CT	GREENWICH				203/348-0787	B/V	120
CT	HARTFORD	203/242-7140	B		203/522-0344		
CT	HARTFORD	203/242-7417	B212A	120	203/247-9479	B/V	120
CT	MILFORD				203/624-5954	B/V	120
CT	NEW HAVEN	203/789-0579	B				
CT	NEW HAVEN	203/787-1702	B212A	120	203/624-5954	B/V	120
CT	STAMFORD	203/965-0000	B/V	120	203/348-0787	B/V	120
CT	WATERBURY	203/755-1153	FX B				
CT	WEST HARTFORD				203/522-0344		
CT	WEST HARTFORD				203/247-9479	B/V	120
DC	WASHINGTON	202/442-3900	B				
DC	WASHINGTON				202/429-7896		
DC	WASHINGTON	703/734-3900	B				
DC	WASHINGTON	301/770-1680	B				
DC	WASHINGTON				202/429-7800	B/V	120
DC	WASHINGTON	703/734-8370	B212A	120			
DC	WASHINGTON	703/442-7800	B212A	120			
DC	WASHINGTON	703/442-3960	B/V	120			
DC	WASHINGTON	703/691-8200	B/V	120			
DC	WASHINGTON*	301/492-3150	BELL	30/120			
	(AUTOM. SPEED DETECTOR - ENTER P (CR))						
DC	WASHINGTON*	301/492-3142	B202S	120			
DC	WASHINGTON*	301/492-3129	V3405	120			
DC	WASHINGTON*	301/492-3132	V3405	120			
DC	WASHINGTON*	301/492-3134	V3405	120			
DC	WASHINGTON*	301/492-3135	V3405	120			
DE	WILMINGTON	302/658-5261	FX B		302/454-7710		
DE	WILMINGTON	302/658-8611	B212A	120	302/454-7710	B/V	120
FL	CLEARWATER				813/323-4026	B/V	120
FL	DAYTONA BEACH	904/252-4481	FX B				
FL	FT LAUDERDALE	305/467-3807	B/V	120	305/764-4505	B/V	120
FL	JACKSONVILLE	904/721-8100	B		904/356-2264	B/V	120
FL	MELBOURNE	305/725-8011	FX B				
FL	MELBOURNE	305/724-9972	B212A	120			
FL	MIAMI	305/624-7900	B/V	120	305/372-0230	B/V	120
FL	ORLANDO	305/851-3530	(30 CPS ONLY)		305/422-4088		
FL	ORLANDO	305/859-7670	B212A	120	305/422-4088	B/V	120
FL	PENSACOLA	904/434-0134	FX B/V	120			
FL	ST PETERSBURG	813/535-6441	B		813/323-4026		
FL	ST PETERSBURG	813/535-1446	B212A	120	813/323-4026	B/V	120

NLM TECHNICAL BULLETIN - AUG 82

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
FL	SARASOTA	813/365-3526	FX B212A	120			
FL	TALLAHASSEE				904/224-6824	B/V	120
FL	TAMPA	813/977-2400	B		813/224-9920		
FL	TAMPA	813/977-2400	B212A	120	813/223-1088	B/V	120
FL	W PALM BEACH	305/627-5410	FX B/V	120	305/833-6691		
GA	ATLANTA				404/577-8911		
GA	ATLANTA	404/659-1600	B212A	120	404/523-0834	B/V	120
GA	MACON	912/236-1904	V3405	120			
GA	SAVANNAH	912/352-7259	FX B		912/236-2605		
GA	SAVANNAH	912/236-1904	FX B/V	120			
HI	HONOLULU	CONTACT HAWAII TELEPHONE COMPANY FOR ACCESS(TELENET)					
HI	HONOLULU	CONTACT WESTERN UNION INT'L FOR ACCESS(TYMNET)					
IA	CEDAR RAPIDS	319/363-2482	FX B		319/364-0911		
IA	CEDAR RAPIDS	319/363-9019	FX B212A	120	319/364-0911	B/V	120
IA	COUNCIL BLUFFS				402/341-7733		
IA	COUNCIL BLUFFS				402/341-7733	B/V	120
IA	DAVENPORT	319/322-5642	FX B				
IA	DAVENPORT	319/324-7197	B/V	120			
IA	DES MOINES	515/288-6640	B		515/288-4403		
IA	DES MOINES	515/288-8097	B212A	120	515/288-4403	B/V	120
IA	IOWA CITY	319/354-7371	B				
IA	IOWA CITY	319/354-9532	B212A	120			
IA	WATERLOO	319/233-9227	B212A	120			
ID	BOISE	208/342-0404	B/V	120	208/343-0611	B/V	120
IL	ARLINGTON HTS				312/938-0500		
IL	ARLINGTON HTS				312/938-0600	B/V	120
IL	CHAMPAIGN				217/384-6428		
IL	CHAMPAIGN				217/384-6428	B/V	120
IL	CHICAGO	312/346-4961	B		312/938-0500		
IL	CHICAGO	312/368-4700	B		312/938-0600	B/V	120
IL	CHICAGO	312/368-4607	B				
IL	CHICAGO	312/641-1630	B212A	120	312/938-0600	B/V	120
IL	CHICAGO	312/372-0391	V3405	120			
IL	CICERO				312/938-0500		
IL	CICERO				312/938-0600	B/V	120
IL	E. ST. LOUIS				314/421-4990		
IL	E. ST. LOUIS				314/421-4990	B/V	120
IL	FREEPORT	815/233-5585	B				
IL	JOLIET	815/723-9854	B212A	120			
IL	OAK PARK				312/938-0500		
IL	OAK PARK				312/938-0600	B/V	120
IL	PEORIA	309/673-2156	FX B		309/637-8601		
IL	PEORIA				309/637-8570	B/V	120
IL	ROCKFORD	815/398-6090	B				
IL	SKOKIE				312/938-0500		
IL	SKOKIE				312/938-0600	B/V	120
IL	SPRINGFIELD	217/753-7905	B/V	120	217/753-1373		
IL	SPRINGFIELD				217/753-1373	B/V	120
IL	URBANA				217/384-6428		
IL	URBANA				217/384-6428	B/V	120
IN	EVANSVILLE	812/423-6885	FX B		812/424-5250	B/V	120
IN	FT WAYNE	219/424-5162	FX B		219/426-4022	B/V	120
IN	GARY				219/882-8800		
IN	GARY				219/882-8800	B/V	120
IN	HIGHLAND	219/836-5452	FX B				
IN	INDIANAPOLIS	317/257-3461	B212A	120	317/635-9630		
IN	INDIANAPOLIS	317/926-1253	B212A	120	317/634-5708	B/V	120
IN	MARION	317/662-0091	FX B				
IN	MERRILLVILLE	219/769-7254	FX B				
IN	NISHAWKA				219/233-7104	B/V	120
IN	OSCEOLA				219/233-7104	B/V	120
IN	SOUTH BEND	210/233-4163	B		219/233-7104	B/V	120
KS	KANSAS CITY	913/677-2833	B		816/221-9900		
KS	KANSAS CITY	913/677-0707	B212A	120	816/221-9900	B/V	120
KS	SHAWNEE MISSION	913/677-2833	B				
KS	SHAWNEE MISSION	913/677-0707	B212A	120			
KS	TOPEKA	913/233-0690	FX B		913/233-9880		
KS	TOPEKA				913/233-9880	B/V	120
KS	WICHITA	316/265-1241	B/V	120	316/262-5669		
KS	WICHITA				316/262-5669	B/V	120
KY	BOWLING GREEN				502/843-9026	B/V	120
KY	FRANKFORT				502/875-3920	B/V	120
KY	LEXINGTON	606/253-3463	B		606/233-0312		
KY	LEXINGTON	606/253-3498	B212A	120			
KY	LOUISVILLE	502/361-3881	B				
KY	LOUISVILLE	502/361-3821	B212A	120	502/589-5580	B/V	120
LA	BATON ROUGE	504/292-4050	B		504/343-0753		

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
LA	BATON ROUGE	504/292-2650	B212A	120			
LA	LAFAYETTE	318/237-9500	B/V	120			
LA	MONROE				318/387-6330		
LA	NEW ORLEANS	504/524-4371	B/V	120	504/524-4094	B/V	120
LA	SHREVEPORT				318/221-5833		
LA	SHREVEPORT	318/688-4666	FX B212A	120	318/221-5833	B/V	120
MA	ARLINGTON	617/482-4677	B				
MA	ARLINGTON	617/482-5605	B		617/338-1400		
MA	ARLINGTON	617/482-7035	B/V	120	617/338-7495	B/V	120
MA	BOSTON	617/482-4677	B				
MA	BOSTON	617/482-5605	B		617/338-1400		
MA	BOSTON	617/482-7035	B/V	120	617/338-7495	B/V	120
MA	BROOKLINE	617/482-4677	B				
MA	BROOKLINE	617/482-5605	B		617/338-1400		
MA	BROOKLINE	617/482-7035	B/V	120	617/338-7495	B/V	120
MA	CAMBRIDGE	617/482-4677	B				
MA	CAMBRIDGE	617/482-5605	B		617/338-1400		
MA	CAMERIDGE	617/482-7035	B/V	120	617/338-7495	B/V	120
MA	CHICOPEE	413/781-6830	B		413/739-7221		
MA	CHICOPEE	413/781-0145	B212A	120			
MA	HOLYOKE	413/781-6830	B		413/739-7221		
MA	HOLYOKE	413/781-0145	B212A	120			
MA	LEXINGTON				617/863-1550	B/V	120
MA	MEDFORD	617/482-4677	B				
MA	MEDFORD	617/482-5605	B		617/338-1400		
MA	MEDFORD	617/482-7035	B/V	120	617/338-7495	B/V	120
MA	NEWTON	617/482-4677	B				
MA	NEWTON	617/482-5605	B		617/338-1400		
MA	NEWTON	617/482-7035	B/V	120	617/338-7495	B/V	120
MA	QUINCY	617/482-4677	B				
MA	QUINCY	617/482-5605	B		617/338-1400		
MA	QUINCY	617/482-7035	B/V	120	617/338-7495	B/V	120
MA	SOMERVILLE	617/482-4677	B				
MA	SOMERVILLE	617/482-5605	B		617/338-1400		
MA	SOMERVILLE	617/482-7035	B/V	120	617/338-7495	B/V	120
MA	SPRINGFIELD	413/781-6830	B/V	120	413/739-7221		
MA	SPRINGFIELD	413/781-0145	B212A	120			
MA	WALTHAM	617/482-4677	B				
MA	WALTHAM	617/482-5622	B		617/338-1400		
MA	WALTHAM	617/482-3386	B212A	120	617/338-7495	B/V	120
MA	WALTHAM	617/482-1854	V3405	120			
MA	WORCESTER	617/754-9451	FX B				
MA	WORCESTER	617/755-5601	B212A	120	617/755-4740	B/V	120
MD	ANNAPOLIS	301/547-8100	B		301/266-6886		
MD	ANNAPOLIS	301/685-2845	B212A	120			
MD	BALTIMORE	301/547-8100	B/V	120	301/962-5010		
MD	BALTIMORE				301/727-6060	B/V	120
MD	BETHESDA	703/841-0200	B		202/429-7896		
MD	BETHESDA	301/770-1680	B				
MD	BETHESDA	703/524-9215	B212A	120			
MD	BETHESDA	703/841-9330	V3405	120	202/429-7800	B/V	120
MD	COLLEGE PARK	703/841-0200	B		202/429-7896		
MD	COLLEGE PARK	301/770-1680	B				
MD	COLLEGE PARK	703/524-9215	B212A	120			
MD	COLLEGE PARK	703/841-9330	V3405	120	202/429-7800	B/V	120
MD	DUNDALK	301/547-8100	B		301/962-5010		
MD	DUNDALK	301/244-8959	B212A	120	301/727-6060	B/V	120
MD	ROCKVILLE	703/841-0200	B		202/429-7896		
MD	ROCKVILLE	301/770-1680	B				
MD	ROCKVILLE	703/524-9215	B212A	120			
MD	ROCKVILLE	703/841-9330	V3405	120	202/429-7800	B/V	120
MD	SILVER SPRING	301/770-1680	B				
MD	SILVER SPRING	703/841-0200	B		202/429-7896		
MD	SILVER SPRING	703/524-9215	B212A	120			
MD	SILVER SPRING	703/841-9330	V3405	120	202/429-7800	B/V	120
MD	TOWSON	301/547-8100	B		301/962-5010		
MD	TOWSON	301/244-8959	B212A	120	301/727-6060	B/V	120
ME	AUGUSTA				207/623-5136	B/V	120
ME	PORTLAND	207/773-2029	FX B212A	120			
MI	ANN ARBOR	313/665-2627	B		313/996-0351		
MI	ANN ARBOR	313/662-8282	B212A	120	313/996-5995	B/V	120
MI	BATTLE CREEK				616/968-0929		
MI	BATTLE CREEK				616/968-0929	B/V	120
MI	CADILLAC	616/775-1261	B/V	120			
MI	DETROIT	313/963-3388	B		313/964-5538		
MI	DETROIT	313/963-8880	B212A	120	313/964-2988	B/V	120
MI	DETROIT	313/963-2353	V3405	120			

NLM TECHNICAL BULLETIN - AUG 82

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
MI	FLINT				313/233-3050		
MI	FLINT	313/732-7303	B212A	120	313/233-3050	B/V	120
MI	GRAND RAPIDS	616/459-5069	FX B/V	120	616/458-1200		
MI	GRAND RAPIDS				616/774-0966	B/V	120
MI	JACKSON	517/787-9461	B				
MI	KALAMAZOO	616/385-3150	B		616/385-0160		
MI	KALAMAZOO	616/388-3534	B/V	120			
MI	KALAMAZOO	616/388-3534	B/V	120			
MI	LANSING	517/487-2040	FX B/V	120	517/372-5400		
MI	LANSING				517/484-2067	B/V	120
MI	MANISTEE	616/723-8373	FX B/V	120			
MI	PLYMOUTH	313/459-8900	B				
MI	PLYMOUTH	313/459-8100	B212A	120			
MI	SAGINAW				517/790-5166		
MI	SOUTHFIELD	313/569-8350	B				
MI	ST JOSEPH	616/429-2568	FX B/V	120			
MI	TRAVERSE CITY	616/946-0002	FX B/V	120			
MI	WARREN				313/575-9480	B/V	120
MN	DULUTH				218/722-1719	B/V	120
MN	MANKATO	507/625-1684	B212A	120			
MN	MINNEAPOLIS	612/339-5200	B		612/341-2459	B/V	120
MN	MINNEAPOLIS	612/339-8086	B				
MN	MINNEAPOLIS	612/339-2415	B212A	120			
MN	ROCHESTER	507/282-3741	B212A	120			
MN	ST. PAUL	612/339-5200	B		612/341-2459	B/V	120
MN	ST. PAUL	612/339-2415	B212A	120			
MO	BRIDGETON	314/731-2304	FX B				
MO	COLUMBIA	314/875-1150	FX B				
MO	FLORISSANT				314/421-4990	B/V	120
MO	JEFFERSON CITY	314/634-3273	B212A	120			
MO	JOPLIN	417/782-3037	B/V	120			
MO	KANSAS CITY	913/677-2833	B		816/221-9900		
MO	KANSAS CITY	913/677-0707	B212A	120	816/221-9900	B/V	120
MO	SPRINGFIELD	417/831-0566	B212A	120			
MO	ST JOSEPH	816/232-0624	B212A	120			
MO	ST LOUIS	314/421-5110	B		314/421-4990		
MO	ST LOUIS	314/621-4660	B212A	120	314/421-4990	B/V	120
MS	JACKSON	601/944-0860	FX B		601/969-0036	B/V	120
MS	JACKSON	601/969-5141	B212A	120			
MS	PASCAGOULA	601/769-6502	B				
MS	PASCAGOULA	601/769-6673	B212A	120			
MT	BUTTE	406/494-4637	B/V	120			
MT	HELENA				406/443-0000		
NE	LINCOLN	402/475-8659	FX B/V	120	402/475-8392	B/V	120
NE	OMAHA	402/392-2970	B		402/341-7733		
NE	OMAHA	402/397-0414	B212A	120	402/341-7733	B/V	120
NC	ASHEVILLE	704/255-0021	B212A	120	704/253-3517	B/V	120
NC	CHARLOTTE	704/376-2545	FX B		704/374-0371		
NC	CHARLOTTE	704/376-2544	FX B212A	120	704/332-3131	B/V	120
NC	DAVIDSON	919/549-0441	B		919/549-8311		
NC	DAVIDSON				919/549-8139	B/V	120
NC	DURHAM	919/549-0441	B		919/549-8311		
NC	DURHAM	919/549-8910	B212A	120	919/549-8139	B/V	120
NC	GREENSBORO	919/379-0034	B				
NC	GREENSBORO	919/379-0470	B/V	120	919/273-2851	B/V	120
NC	HIGH POINT	919/885-0171	FX B		919/889-2253		
NC	HIGH POINT	919/885-0171	FX B/V	120	919/889-2253	B/V	120
NC	RALEIGH/DURHAM	919/549-0441	B		919/549-8311		
NC	RALEIGH/DURHAM	919/832-6592	FX B212A	120	919/549-8139	B/V	120
NC	RES. TRI. PARK	919/549-0441	B		919/549-8311		
NC	RES. TRI. PARK				919/549-8139	B/V	120
NC	WINSTON-SALEM				919/725-2126	B/V	120
NC	WINSTON-SALEM	919/725-9252	B/V	120	919/725-2126	B/V	120
ND	BISMARCK				701/663-5081		
ND	MANDAN				701/663-5081		
NH	CONCORD				603/224-8110		
NH	CONCORD				603/224-1024	B/V	120
NH	MANCHESTER	603/623-8859	FX B/V	120			
NH	NASHUA	603/882-0435	FX B/V	120			
NH	PORTSMOUTH				603/431-2302		
NJ	ATLANTIC CITY				609/348-0561		
NJ	BAYONNE				201/623-6818		
NJ	BAYONNE				201/623-0469	B/V	120
NJ	ENGLEWOOD CLFS	201/894-8250	B				
NJ	JERSEY CITY	301/432-0792	B		201/623-6818		
NJ	JERSEY CITY				201/623-0469	B/V	120
NJ	LYNDHURST	201/460-0100	B				

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ST	CITY	TVMNET	TYPE	SPEED	TELENET	TYPE	SPEED
NJ	LYNDHURST	201/460-0180	B212A	120			
NJ	MARLTON				609/596-1500	B/V	120
NJ	MOORESTOWN	609/235-3761	FX B				
NJ	MORRISTOWN	201/267-3997	B212A	120	201/455-0275	B/V	120
NJ	NEW BRUNSWICK	609/452-1018	B/V	120	201/246-1090	B/V	120
NJ	NEWARK	201/483-5937	B		201/623-6818		
NJ	NEWARK	201/483-4878	B212A	120	201/623-0469	B/V	120
NJ	PASSAIC				201/777-0952		
NJ	PATERSON				201/684-7560	B/V	120
NJ	PISCATAWAY	201/981-1900	B/V	120			
NJ	PRINCETON	609/452-1018	B/V	120	609/683-1312	B/V	120
NJ	RIDGEWOOD	201/447-6175	FX B212A	120			
NJ	TRENTON				609/989-8847	B/V	120
NJ	UNION	201/483-5937	B				
NJ	UNION	201/483-4878	B212A	120			
NJ	UNION CITY				201/623-6818		
NJ	UNION CITY				201/623-0469	B/V	120
NJ	WAYNE	201/785-4480	B				
NM	ALBUQUERQUE				505/243-7701		
NM	ALBUQUERQUE	505/843-6301	B/V	120	505/243-4479	B/V	120
NV	BOULDER CITY	702/293-0300	B				
NV	CARSON CITY	702/882-7810	B/V	120			
NV	LAS VEGAS	702/293-0300	B/V	120	702/733-2158		
NV	LAS VEGAS				702/737-6861	B/V	120
NV	RENO	702/882-7810	B/V	120			
NY	ALBANY	518/463-3111	FX B		518/445-9111		
NY	ALBANY	518/434-2633	B212A	120	518/465-8444	B/V	120
NY	BINGHAMPTON				607/772-6642	B/V	120
NY	BUFFALO	716/845-6610	B		716/847-0600		
NY	BUFFALO	716/847-0500	B212A	120	716/847-1440	B/V	120
NY	CORNING	607/962-4481	B/V	120			
NY	DEER PARK				516/667-5566	B/V	120
NY	ELMIRA	607/737-9010	B212A	120			
NY	HEMPSTEAD, LI	516/872-6500	FX B		516/292-0320		
NY	HEMPSTEAD, LI	516/872-6500	FX B/V	120	516/292-3800	B/V	120
NY	HUNTINGTON, LI	516/549-2780	FX B				
NY	HUNTINGTON, LI	516/549-2760	FX B/V	120			
NY	ITHICA	607/257-6601	B/V	120			
NY	MINOLA	516/222-1423	FX B212A	120			
NY	NEW YORK				212/785-2540		
NY	NEW YORK	212/683-0131	B				
NY	NEW YORK	212/532-0437	B		212/736-0099		
NY	NEW YORK	212/685-4414	B				
NY	NEW YORK	212/269-6985	B/V	120	212/947-9600	B/V	120
NY	NEW YORK	212/532-8101	B212A	120	212/785-3860	B/V	120
NY	NEW YORK	212/785-5400	B/V	120			
NY	NIAGARA FALLS	716/285-6691	FX B				
NY	NIAGARA FALLS	716/285-3114	FX B212A	120			
NY	POUGHKEEPSIE	914/471-6100	FX B/V	120	914/473-2400	B/V	120
NY	ROCHESTER	716/248-8000	B		716/454-3430		
NY	ROCHESTER	716/248-8350	B212A	120	716/454-1020	B/V	120
NY	ROME				315/797-0920	B/V	120
NY	SCHENECTADY				518/445-9111		
NY	SCHENECTADY				518/465-8444	B/V	120
NY	SYRACUSE	315/437-7111	B		315/472-5503		
NY	SYRACUSE	315/437-1117	B212A	120	315/472-5583	B/V	120
NY	TROY				518/445-9111		
NY	TROY				518/465-8444	B/V	120
NY	UTICA				518/465-8444	B/V	120
NY	WHITE PLAINS	914/684-6075	B/V	120	914/328-9199	B/V	120
NY	WHITE PLAINS	914/328-9580	B/V	120			
OH	AKRON	216/535-1861	B/V	120	216/762-9791	B/V	120
OH	CANTON				216/452-0903		
OH	CINCINNATI	513/489-2100	B		513/621-7017		
OH	CINCINNATI	513/489-2200	B212A	120	513/579-0390	B/V	120
OH	CINCINNATI	513/489-2300	B/V	120			
OH	CLEVELAND	216/781-7050	B				
OH	CLEVELAND	216/861-5383	B212A	120	216/575-1658	B/V	120
OH	COLUMBUS	614/421-7270	B		614/463-9340	B/V	120
OH	COLUMBUS	614/421-1650	B212A	120			
OH	DAYTON	513/223-3847	B				
OH	DAYTON	513/461-6400	B212A	120	513/461-5254	B/V	120
OH	EUCLID				216/241-0940		
OH	EUCLID				216/696-4225	B/V	120
OH	KENT				216/678-5115		
OH	MARYSVILLE	513/642-2015	FX B212A	120			
OH	PARMA				216/241-0940		

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ST	CITY	TVMET	TYPE	SPEED	TELENET	TYPE	SPEED
OH	PARMA				216/696-4225	B/V	120
OH	TOLEDO	419/243-3144	FX B				
OH	TOLEDO	419/255-2946	FX B212A	120	419/225-7881	B/V	120
OH	YOUNGSTOWN	216/744-5326	B212A	120	216/743-2296	B/V	120
OK	BETHANY	405/947-0561	B				
OK	BETHANY	405/949-0125	B212A	120	405/232-4546	B/V	120
OK	NORMAN	405/947-6387	B/V	120	405/232-4546	B/V	120
OK	OKLAHOMA CITY				405/232-4546		
OK	OKLAHOMA CITY	405/947-6387	B/V	120	405/232-4546	B/V	120
OK	STILLWATER				405/624-1112		
OK	TULSA				918/584-3247		
OK	TULSA	918/582-4433	B/V	120	918/584-3247	B/V	120
OR	PORTLAND	503/226-0627	B/V	120	503/295-3000		
OR	FORTLAND	503/231-4077	B212A	120	503/295-3028	B/V	120
OR	SALEM				503/378-7712	B/V	120
PA	ALLENTOWN	215/433-6131	FX B		215/435-3330		
PA	ALLENTOWN	215/432-5926	B212A	120	215/435-3330	B/V	120
PA	ALTOONA	814/946-8888	B212A	120			
PA	DOWINGTON	215/269-9861	FX B/V	120			
PA	ERIE	814/453-7161	B		814/453-7561		
PA	ERIE				814/453-6859	B/V	120
PA	HARRISBURG	717/236-1190	FX B				
PA	HARRISBURG	717/233-8531	FX B212A	120	717/236-6882	B/V	120
PA	JOHNSTOWN				814/535-7576		
PA	JOHNSTOWN				814/535-8541	B/V	120
PA	KING OF PRUSSIA	215/337-9900	B212A	120	215/337-4300	B/V	120
PA	PENN HILLS				412/288-9950		
PA	PENN HILLS				412/288-9974	B/V	120
PA	PHILADELPHIA	215/561-6120	B		215/574-0620		
PA	PHILADELPHIA	215/567-1381	B212A	120	215/574-9462	B/V	120
PA	PITTSBURGH	412/765-1320	B		412/288-9950		
PA	PITTSBURGH	412/261-4151	B212A	120	412/288-9974	B/V	120
PA	SCRANTON				717/961-5321		
PA	SHARON				412/346-6576		
PA	UPPER DARBY				215/574-0620		
PA	UPPER DARBY				215/574-9462	B/V	120
PA	VALLEY FORGE	215/666-9190	B				
PA	VALLEY FORGE	215/666-0930	B212A	120			
PA	YORK	717/846-3900	B/V	120	717/846-6550	B/V	120
RI	PROVIDENCE	401/273-2922	FX B/V	120			
RI	PROVIDENCE	401/273-2923	FX B/V	120	401/751-7912	B/V	120
RI	WARWICK				401/751-7912	B/V	120
SC	CHARLESTON	803/577-2179	FX B/V	120	803/722-4303	B/V	120
SC	COLUMBIA	803/252-0840	FX B				
SC	COLUMBIA	803/256-5238	FX B212A	120	803/254-0695	B/V	120
SC	GREENVILLE	803/271-2418	FX B				
SC	GREENVILLE	803/271-9967	FX B		803/233-3486	B/V	120
SC	GREENVILLE	919/379-0034	B				
SC	SPARTANBURG	803/585-2637	FX B/V	120			
SD	PIERRE				605/224-6188		
TN	CHATTANOOGA	615/756-5856	B				
TN	CHATTANOOGA	615/756-0561	B212A	120	615/756-1161	B/V	120
TN	KNOXVILLE	615/637-3118	FX B		615/523-5500		
TN	KNOXVILLE	615/523-7458	FX B212A	120	615/523-5500	B/V	120
TN	MEMPHIS	901/529-0170	B				
TN	MEMPHIS	901/529-0183	B212A	120	901/521-0215	B/V	120
TN	NASHVILLE	615/367-9382	B		615/244-8310		
TN	NASHVILLE	615/361-7566	B212A	120	615/244-5099	B/V	120
TX	ABILENE				915/676-8545	B/V	120
TX	AUSTIN	512/444-3280	B/V	120	512/928-1130	B/V	120
TX	BAYTOWN	713/427-5856	FX B				
TX	BEAUMONT	713/832-2589	FX B				
TX	CORPUS CHRISTI	512/883-8050	FX B/V	120	512/884-9030	B/V	120
TX	DALLAS	214/638-8888	B/V	120	214/748-0127		
TX	DALLAS	214/688-1444	B/V	120	214/748-6371	B/V	120
TX	EL PASO	915/544-9590	B/V	120	915/532-7907	B/V	120
TX	EL PASO	915/532-1936	B212A	120			
TX	FORT WORTH	214/263-4581	FX B/V	120	817/336-7791		
TX	FORT WORTH				817/332-4307	B/V	120
TX	GALVESTON				713/762-3308	B/V	120
TX	HOUSTON	713/975-0500	B/V	120	713/227-1018	B/V	120
TX	HOUSTON	713/977-7671	B212A	120	713/227-1018	B/V	120
TX	LACKLAND				512/225-8004	B/V	120
TX	LONGVIEW	214/758-1756	FX B/V	120			
TX	LUBBOCK	806/762-0136	FX B				
TX	MIDLAND	915/683-5645	B				
TX	MIDLAND	915/683-9833	B212A	120			

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ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
TX	NEDERLAND				713/724-6717	B/V	120
TX	ODESSA	915/563-3745	FX B		915/332-6883		
TX	SAN ANGELO				915/944-7621	B/V	120
TX	SAN ANTONIO	512/225-8002	B/V	120	512/225-8004	B/V	120
UT	SALT LAKE CITY	801/582-8972	B				
UT	SALT LAKE CITY	801/582-6060	B212A	120	801/359-0149	B/V	120
VA	CHESAPEAKE				804/625-1186	B/V	120
VA	HERNDON				703/435-3333		
VA	LYNCHBURG	804/528-0021	FX B212A	120			
VA	NEWPORT NEWS	804/596-5754	FX B/V	120	804/596-6600	B/V	120
VA	NORFOLK	804/625-8301	B212A	120	804/625-1186	B/V	120
VA	PORTSMOUTH				804/625-1186	B/V	120
VA	RICHMOND	804/744-4860	B/V	120	804/788-9902	B/V	120
VA	ROANKE	703/345-6668	FX B/V	120			
VA	VIRGINIA BEACH				804/625-1186	B/V	120
VT	BURLINGTON	802/864-0054	FX B212A	120			
VT	MONTPELIER				802/229-4966		
WA	AUBURN				206/939-9982	B/V	120
WA	BELLEVUE	206/625-9937	B212A	120	206/625-9612	B/V	120
WA	BELLEVUE	206/625-9900	B		206/447-9012		
WA	ENUNCLAW	206/825-5121	B/V	120			
WA	LONGVIEW				206/577-5835		
WA	OLYMPIA	206/754-3900	B/V	120			
WA	RICHLAND	509/375-3367	B/V	120			
WA	SEATTLE				206/447-9012		
WA	SEATTLE	206/285-0109	B/V	120	206/625-9612	B/V	120
WA	SPOKANE	509/747-4105	B/V	120	509/455-4071	B/V	120
WA	TACOMA	206/473-7810	B/V	120	206/627-1791	B/V	120
WA	WENACHEE				509/662-1901		
WA	WENACHEE				509/662-1901	B/V	120
WI	APPLETON	414/735-9390	B/V	120			
WI	EAU CLAIRE	715/834-7863	FX B212A	120			
WI	GREEN BAY	414/437-9897	B/V	120			
WI	MADISON	608/221-4211	B		608/251-5904		
WI	MADISON	608/221-0891	B212A	120	608/257-5010	B/V	120
WI	MILWAUKEE				414/271-2560		
WI	MILWAUKEE	414/785-1614	B/V	120	414/271-3914	B/V	120
WI	NEENAH	414/722-5580	B/V	120			
WI	OSHKOSH	414/235-1082	B/V	120			
WI	RACINE	414/632-3006	B/V	120			
WV	CHARLESTON	304/345-2908	B212A	120	304/345-6471	B/V	120
WV	HUNTINGTON	304/522-6261	FX B				
WY	CHEYENNE				307/638-4421	B/V	120

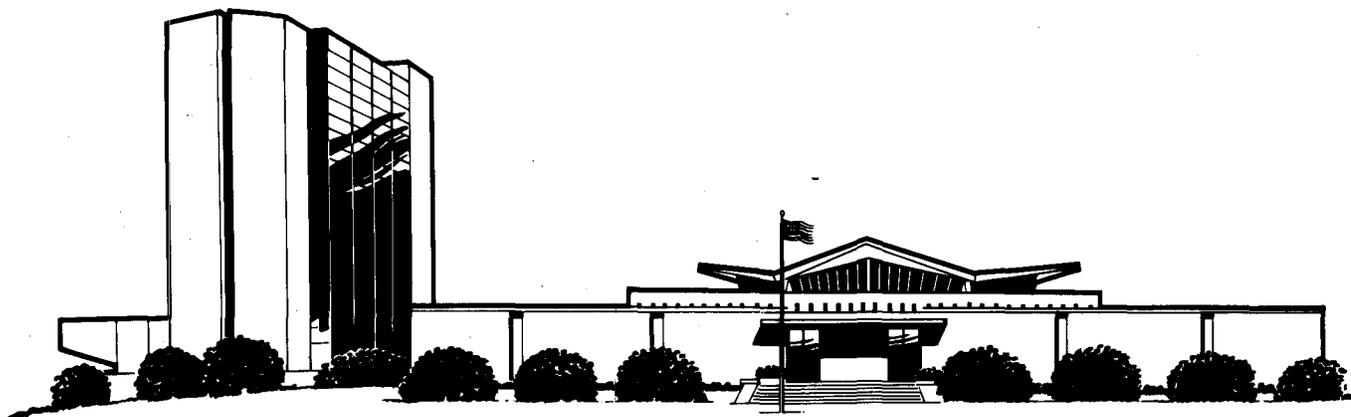
THE NLM TECHNICAL BULLETIN

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Reference Manual



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DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	11,041	THROUGH 1982	16 SEP 82	
*BIOETHICS	12,934	JAN 73-DEC 81	10 MAR 82	8203(EM)
*CANCERLIT	313,586	JAN 63-SEP 82	20 SEP 82	8209(EM)
*CANCERPROJ	21,117	1978-1981	12 NOV 81	8110(EM)
*CATLINE	457,708	THROUGH 1982	20 SEP 82	
*CHEMLINE	540,402		13 SEP 82	8209(EM)
*CLINPROT	3,195		23 JUL 82	8207(EM)
*EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
HEALTH	212,438	JAN 75-OCT 82	13 SEP 82	8210(EM)
*HISTLINE	51,266		16 SEP 82	8209(EM)
MEDLINE	599,109	JAN 80-OCT 82	07 SEP 82	8210(EM)
MED79	264,479	JAN 79-DEC 79	14 DEC 81	
MED77	510,972	JAN 77-DEC 78	14 DEC 81	
+MED75	642,934	JAN 75-DEC 76	14 DEC 81	
+MED72	669,105	JAN 72-DEC 74	14 DEC 81	
+MED69	668,257	JAN 69-DEC 71	14 DEC 81	
+MED66	501,801	JAN 66-DEC 68	14 DEC 81	
MESH VOC	45,005	1982	20 SEP 82	
*NAME AUTH	135,428		07 SEP 82	
*POPLINE	103,611	1970-SEP 82	13 SEP 82	8209(EM)
*RTECS	55,174	1979 ED.-JUL 82	13 SEP 82	
SDILINE	24,664	OCT 82	07 SEP 82	
*SERLINE	39,960	1982	13 SEP 82	
*TDB	3,764		26 JUL 82	
*TOXLINE	465,234		28 AUG 82	8208(EM)
CBAC	227,300	1979-VOL 97(2,3)		
TOXBIB	77,236	1979-SEP 82		
IPA (ASHP)	15,363	1979-VOL 19(11)		
HEEP	36,844	1979-VOL 11(9)		
PESTAB	8,209	1979-VOL 14(DEC 81)		
EMIC	34,796	1950-OCT 81		
ETIC	24,895	1950-MAY 82		
RPROJ	28,306	1979-FEB 82		
TD3	12,379	GRA & I 82(14-16)		
*TOXBACK74	474,653		19 APR 82	
CBAC	265,253	1974-1978		
TOXBIB	103,386	1974-1978		
IPA (ASHP)	30,606	1974-1978		
HEEP	61,871	1974-1978		
PESTAB	13,537	1974-1978		
+TOXBACK65	387,377		19 APR 82	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1969-1973		
HEEP	29,662	1970-1973		
HAPAB/PESTAB	12,966	1968-1973		
HAYES	10,039	1940-1968		
TMIC	4,552	1940-1973		

1) * = NLN ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

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 301/496-6193

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 National Library of Medicine
 8600 Rockville Pike
 Bethesda, Maryland 20209

TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the 1982 Online Services Reference Manual 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.

- FORMAT CHANGE FOR OFFPRINT ENVELOPES - The NLM offprint envelopes have been reformatted to comply with U.S. Postal Service regulations. (The window on the envelope must be in the same direction as the longest dimension of the envelope.) The address will print sideways on offline prints, offsearches, and automatic SDI's at NLM only. NLM offprints will contain two pages with the sideways address and one cover sheet with the offsearch/offline print request information as currently formatted. Users are not charged for these three pages. This change will be implemented in September 1982. SUNY offprints will remain unchanged. IMPORTANT: The letters of the new address are larger than before; therefore, it is imperative that addresses input on offprints and/or stored addresses do not exceed the 50 characters per line limitation for each of the three lines of the address.
- PRICE CHANGES EFFECTIVE OCTOBER 1 - Reminder: Price increases announced in the June 1982 Technical Bulletin enclosure and in an article in the July 1982 Technical Bulletin, p. 5, become effective October 1, 1982.
- CHARGE ADJUSTMENT AUGUST 1982 - Due to difficulties NLM experienced with the installation of the IBM 3033 computer, which resulted in increased response times, NLM will not charge for any connect time used by domestic or non-United States users on the NLM computer on Monday or Tuesday, August 16 and 17, 1982. Regular charges will be made for the NLM offprint pages, however, and for connect hours and offprint pages on the SUNY computer.
- COLUMBUS DAY HOLIDAY SCHEDULE - Both the NLM and SUNY computers will be up on Monday, October 11, 1982, 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, Tuesday, October 12, 1982, both NLM and SUNY will be up and the MMS Service Desk staffed. Regular rates will be in effect all day.
- TYMNET DISCONTINUING BELL 202 MODEMS - All Tymnet telephone numbers associated with Bell 202-compatible modems will be discontinued in the future (no firm date has been set by Tymnet). MEDLARS Management has therefore removed these numbers from the Phones List distributed with the Technical Bulletin. Users are reminded that when these numbers are discontinued, there will be no access to the NLM or SUNY systems via Telenet or Tymnet using a Bell 202 modem.

SEARCHING TERMS - Currently there are three MeSH Headings and/or MeSH
 THAT ARE ALSO Heading entry terms that are processed by the computer
 COMMANDS as commands when they are searched as the first entry
 (MANUAL 4.9.5 in a search statement and without an asterisk or sub-
 4.9.9 headings. These are:
 4.9.14
 4.9.16.1) FILES AND FILING [MeSH Heading; problem also occurs with
 entry terms for this heading, namely,
 FILES or FILES FILING]

ELEMENTS [MeSH Heading]

NEWS [Entry term for NEWSPAPERS (MH)]

These terms may only be searched as MeSH Headings or entry terms in one of the following ways:

- 1) [space] FILES AND FILING
- 2) ELEMENTS(MH) [no space between the descriptor and category qualifier]
- 3) FIND NEWS
- 4) (MH) FILES FILING [space optional between descriptor and category qualifier]

Searchers are reminded that a similar problem may occur in a free text database such as TOXLINE if a command name is searched as a term and as the first item in a search statement. An example would be searching PRINT as a Text Word. This term would be processed as a command unless the procedures above were followed, e.g.,

- 1) [space] PRINT
- 2) PRINT(TW) [no space between the term and TW qualifier]
- 3) FIND PRINT
- 4) (TW) PRINT [space optional between Text Word and category qualifier]

This problem only occurs if the term is the first term in the search statement and is an alias for a command or a command name.

SEARCHING THE TERMS THAT ARE ALSO COMMANDS (MANUAL 4.6.1 8.5.57.1 9.5.56.1 11.3.38.1) - Because the terms EXP and EXPLODE are reserved in the MEDLARS system for Exploding a MeSH Heading or MeSH Tree Number, searchers will encounter difficulties when trying to search EXP or EXPLODE as terms in any database, anywhere within the search statement, and when using any search qualifier. Therefore, if a searcher wishes to search these terms, at least one letter within the term must be disguised using the single variable character symbol (i.e., the hash mark or pound sign [#]). For example, when searching the term EXPLODE in TOXLINE, the searcher would enter E#PLODE. When searching title keys in CATLINE, AVLINE, or SERLINE for titles whose first three letters are EXP, searchers should be sure to disguise one of the letters in the EXP or the first slash. For example, to search the title key EXP/A/D/B, enter E#P/A/D/B or EXP#A/D/B. These procedures must be followed in all databases regardless of whether or not Exploding is allowed with that database, and even if the term or title key does not occur as the first search term in a search statement.

CLINPROT DATA ELEMENT CHANGES (MANUAL Part 18) - Two data element changes are being made in conjunction with the development of the PDQ (Protocol Data Query) database (see also Technical Note on PDQ Manual Chapter).

<u>CURRENT DATA ELEMENT NAME</u> (Category Qualifier)	<u>NEW DATA ELEMENT NAME</u> (Category Qualifier)
ID NUMBER (ID)	PROTOCOL ID NUMBERS (PNS)
INVESTIGATORS (IR)	PROTOCOL CHAIRMAN (CH)

The new names more accurately describe the contents of the fields. The change should be effective on or about October 1, 1982.

MANUAL REPLACEMENT PAGES - Replacement pages for the 1982 edition of the Online Services Reference Manual are enclosed with this issue. Please insert these in the appropriate chapters.

PDQ MANUAL CHAPTER - Enclosed is a new chapter for the 1982 Online Services Reference Manual. Chapter 25 is for the new PDQ (Protocol Data Query) database expected to be available on the NLM computer on or about October 1, 1982. See article on page 6 of this issue.

PLEASE TYPE NEWS TO SEE THE MOST RECENT NEWS ITEMS ONLINE

PDQ: A NEW NCI DATABASE
Donna J. Wicker, National Cancer Institute

A new database, PDQ (Protocol Data Query), will be available on the MEDLARS system effective on or about October 1. PDQ was developed by the National Cancer Institute (NCI) so that information regarding current methods of cancer therapy in NCI-supported programs would be more widely accessible for the benefit of physicians and their patients.

PDQ currently contains general descriptions (the protocol objective and the patient entry criteria) of approximately 700 cancer therapy research protocols. With each protocol, there is a list of institutions where the protocol is being used to treat patients and the name of an oncologist to contact at each institution for information about the protocol. Monthly updates to this file are expected.

Protocols included in the present implementation of PDQ are those utilized in studies directly supported by the NCI and performed by the following groups:

- Cooperative Study Groups;
- Comprehensive Cancer Centers;
- Intramural NCI groups; and
- Institutions under contract to NCI for Phase II and Phase III studies.

It is anticipated that additional study groups will be added to the database in the near future. Protocols will also be added from other units within the NCI, from institutions under contract to NCI for Phase I studies and from non-NCI-supported groups both inside and outside the United States.

The PDQ file is closely related to the CLINPROT file; in fact, PDQ could be considered a subset of CLINPROT with some major differences. PDQ contains only the active, NCI-supported protocols from CLINPROT. The protocol identification numbers, title, abstract, and chairman's name will appear exactly the same in both databases.

NCI has added the following to the protocol record in PDQ: a list of the institutions using each protocol, and the name, address, and telephone number of an oncologist to contact at each institution using the protocol. NCI has deleted the specific details of the protocol from the record in PDQ. It is expected that PDQ will be of greatest use to physicians who are treating cancer patients. The database has been designed with their needs in mind, rather than those of a cancer researcher or clinical investigator.

A PDQ manual has been enclosed with this issue of the Bulletin. Please consult the manual or request the online EXPLAIN for specific information about the content and structure of the database.

For the next six months, while the utility and value of PDQ are being tested, access will be limited to domestic MEDLARS users only. Watch for an announcement in the online NEWS concerning free introductory connect time. Your comments are welcome.

CONCERNING NON-SERIAL PROCEEDINGS

Clifford A. Bachrach, M.D., Head, Medical Subject Headings

In 1976, Index Medicus began to include citations to congress papers that had been published in the form of non-serial monographs; this practice ended early in 1981. Although a brief announcement of this change was made, it seems important to provide our users with a more complete explanation for this decision.

The original decision to include non-serial congresses and symposia arose out of discussions at the Medical Library Association meeting in 1965. It was suggested, at that time, that by indexing collections of papers delivered at congresses, NLM might disseminate information more rapidly than would be possible if we awaited journal publication of the same information. It was also suggested that because some papers presented at congresses are never published elsewhere, the information they contain might never be adequately disseminated unless they were indexed in Index Medicus.

It was discovered, however, that the MEDLARS I citation format of MEDLINE was rigid, and could not be adapted for citing non-serial publications without major and costly changes in the existing computer programs. When MEDLARS II was planned, the capability to provide adequate citations to non-serial literature in MEDLINE was one of the specified requirements. After the transition to MEDLARS II in 1974, the use of this new capability awaited only the completion of higher priority debugging and optimization procedures.

When indexing began, criteria for the selection of these congress publications were established on the basis of such factors as scope, language, publication time-lag, and availability of the publication.

As experience was gained, it became progressively evident that, although a fraction of this literature may be on a par with the quality journal literature in Index Medicus, there is a very large segment that is repetitive, or that would pass peer review only with difficulty, if at all. Developing an adequate quality screen to review these pieces one-by-one proved difficult and costly.

Discussions of the matter with the NLM's literature selection consultants revealed little enthusiasm for this literature, some of which, they felt, appears in the journal literature. The consultants agreed that this literature is distinctly secondary to the journal literature in importance. It was felt that the limited resources at NLM should be used to provide a more comprehensive coverage of the constantly increasing journal literature. On this basis, the Director of NLM approved a staff recommendation to discontinue indexing non-serial congresses and symposia.

It may be of interest that in 1982, at a panel discussion of proceedings publications at the annual meeting of the Council of Biology Editors, most of the panelists and discussants expressed misgivings similar to those held by NLM's literature selection consultants.

In recent years, a number of services have been developed in the private sector which may be of value to those who feel a need for access to proceedings papers. One of these is Biological Abstracts/RRM which indexes reports, reviews, and meetings. The Institute for Scientific Information has a database called ISTP & B, which stands for Index to Scientific and Technical Proceedings and Books. This indexes book chapters as well as proceedings. There is also a commercial database called Conference Papers Index.

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - August 1982
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. 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. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

ACTUALITES DIGESTIVES MEDICO-CHIRURGICALES
IRE SER,1980--
MASSON
PARIS FRANCE
MASSON S.A.,120 BD SAINT-GERMAIN, 75280
PARIS, FRANCE
IN PROCESS
A11285000

CURRENT RESEARCH IN FORENSIC PSYCHIATRY AND
PSYCHOLOGY
1,1982--
WILEY
NEW YORK UNITED STATES
ON ORDER
A57243000

BERICHTE PATHOLOGIE
97N1,1982--
SPRINGER VERLAG
CONTINUES BERICHTE UBER DIE ALLGEMEINE UND
SPEZIELLE PATHOLOGIE.
BERLIN GERMANY, WEST
IN PROCESS
B06170000

BUTTERWORTHS INTERNATIONAL MEDICAL REVIEWS.
CARDIOLOGY
1,1982--
BUTTERWORTHS
LONDON ENGLAND
ON ORDER
B59043000

JOURNAL OF CLINICAL MICROBIOLOGY
1N1,FEB 1982--
NIEWEG PUBLISHING CO
WIESBADEN WEST GERMANY
VIEWEG PUBLISHING CO, SUBSCRIPTION DEPT,
P.O. BOX 5829, D-6200 WIESBADEN 1, WEST
GERMANY
IN PROCESS
E16050000
\$106.50

IEEE FRONTIERS OF COMPUTERS IN MEDICINE
1981--
INSTITUTE OF ELECTRICAL AND ELECTRONICS
ENGINEERS
NEW YORK UNITED STATES
445 HOES LANE, PISCATAWAY NJ 08854
ON ORDER
I03497500

INFECTIONS IN SURGERY
1N1,JUN 1982--
INFECTIONS IN SURGERY ASSOCIATES, SURGICAL
CARE PUBLICATIONS,INC
NEW YORK UNITED STATES
256 5TH AVE, NEW YORK NY 10001
ON ORDER
I12972000

INTERNATIONAL JOURNAL OF AESTHETIC SURGERY
 IN1,AUG 1981--
 INTERNATIONAL SOCIETY OF AESTHETIC SURGERY
 TOKYO JAPAN
 1-12-5 SHINBASHI, MINATO-KU, TOKYO 105,
 JAPAN
 ON ORDER
 I26210000

IM JOURNAL OF AMERICAN COLLEGE HEALTH
 30N5,APR 1982--
 HELEN DWIGHT REID EDUCATIONAL FOUNDATION
 CONTINUES: JOURNAL OF THE AMERICAN COLLEGE
 HEALTH ASSOCIATION.
 WASHINGTON UNITED STATES
 HELEN DWIGHT REID, EDUCATIONAL FOUNDATION,
 4000 ALBEMARLE ST N.W., WASHINGTON, DC 20016
 W1 J0535D
 J11530000
 \$30.00

IM METABOLIC, PEDIATRIC AND SYSTEMIC
 OPHTHALMOLOGY
 6N1,1982--
 PERGAMON PRESS
 CONTINUES: METABOLIC AND PEDIATRIC
 OPHTHALMOLOGY.
 ELSFORD NY UNITED STATES
 IN PROCESS
 M31895000

NUCLEOSIDES AND NUCLEOTIDES
 IN1,1982--
 MARCEL DEKKER
 NEW YORK UNITED STATES
 IN PROCESS
 N33850000
 \$75.00

PROGRES EN HEMATOLOGIE
 1,OCT 1980--
 DOIN EDITEURS
 PARIS FRANCE
 DOIN EDITEURS, 8, PLACE DE L ODEON, 75006
 PARIS, FRANCE
 IN PROCESS
 P46690000

ZENTRALBLATT PRAKTISCHE INNERE MEDIZIN
 332 HEFT1,1982--
 SPRINGER VERLAG
 CONTINUES: ZENTRALBLATT PRAKTISCHE INNERE
 MEDIZIN UND GRENZGEBIETE.
 BERLIN GERMANY, WEST
 IN PROCESS
 Z07270000

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PDQ
PART 25

25.1 INTRODUCTION

The PDQ (Protocol Data Query) database, developed by the International Cancer Research Data Bank (ICRDB) Program of the National Cancer Institute, contains descriptions of active cancer therapy protocols supported by the National Cancer Institute. PDQ currently contains approximately 700 descriptions of clinical investigations of anticancer agents and treatment modalities. The information in PDQ has been provided by the Cancer Therapy Evaluation Program (CTEP) of the National Cancer Institute.

Each PDQ record provides the protocol Objective and Entry Criteria, along with a list of the investigators to contact at institutions that are using the protocols.

A list of selected terms is used to index PDQ. These terms must be used when searching three of the data elements in the file. All records in the database are also retrievable by free-text (Text Word) searching, i.e., any significant word in the title or abstract fields can be used in a search statement.

PDQ is updated every month.

Information on file content or search strategy may be obtained by contacting the MEDLARS Management Section, National Library of Medicine, 8600 Rockville Pike, Bethesda, Maryland 20209, phone number (301) 496-6193 or (800) 638-8480, or the Database Manager, ICRDB Program, National Cancer Institute, 5333 Westbard Avenue, Bethesda, Maryland 20205, phone number (301) 496-7403.

25.2 ENTERING THE FILE

The database can be accessed by entering ELHILL at NLM and typing FILE PDQ after any USER: cue.

25.3 PDQ UNIT RECORD

The PDQ unit record is the computer-stored information for one protocol. There can be as many as 65 data elements (fields) in each unit record. Eleven of these data elements will appear in every record; the remaining 54 data elements are referred to collectively as Locator Fields and will appear in the record only when the field(s) contains data.

A Locator Field has been created for each of the 50 states; one for the District of Columbia, one for Canada, one for Puerto Rico, and one for all remaining countries.

The table on the following page lists all elements with their two-letter abbreviations.

The PDQ Unit Record

Data Element Abbreviation	Data Element Name	Search Status	PRINT	PRINT FULL	PRINT DETAILED
AB	Abstract	TW		X	X
AD	Address				X
EM	Entry Month	*			X
CH	Protocol Chairman	*		X	X
IC	Institution Coordinator	*			
PNS	Protocol ID Numbers	*	X	X	X
SG	Study Group	*			X
STS	States/Countries	*		X	X
TI	Title	TW	X	X	X
TM	Therapy Modalities	*			X
TU	Tumor Type/Site	*			X
AL**	Alabama Coordinator				
.					
.	Thru				
.					
WY	Wyoming Coordinator				
CD	Canada Coordinator				
PR	Puerto Rico Coordinator				
NN	Non-N.Amer. Coordinator				

* = Directly Searchable
 TW = Text Word Searchable

** PLEASE NOTE: The 2-character State Postal Code is the data element abbreviation for each of the State Locator fields.

25.3.1 ABSTRACT (AB)

The Abstract contains a general description of the protocol subdivided into the Protocol Objective and the Protocol Entry Criteria. Individual words or word fragments are searchable as Text Words. Specific phrases in the Abstract field can be searched directly only by using the STRINGSEARCH or SENSEARCH capabilities.

A more comprehensive description of the protocol can be found in the Protocol Details (PD) field of the CLINPROT database.

25.3.2 ADDRESS (AD)

The Address field gives the complete address and the telephone number of the Protocol Chairman or the investigator coordinating the study. The address field is not searchable.

25.3.3 ENTRY MONTH (EM)

The Entry Month indicates the year and month in which a record was entered into the NLM computer system. It is directly searchable in the format YYMM (YearMonth). All protocols that were part of the original PDQ file carry an Entry Month of 8209 for September 1982.

25.3.4 INSTITUTION COORDINATOR (IC)

This field contains the name of a clinical investigator who has been identified as the physician to contact at a given institution. This individual is often one of many physicians who are participating in the protocol at that institution. The name is directly searchable and is entered last name first, followed by a space and one or two initials, e.g., CROWLEY BL (IC). Because each Institution Coordinator is contained in a Locator Field entry, it can only be printed as part of that field, e.g., PRT NJ.

25.3.5 PROTOCOL CHAIRMAN (CH)

This data element contains the name of the individual within the study who has overall responsibility for the protocol. The name is directly searchable and is entered last name first, followed by a space and one or two initials, e.g., PETERSON RG (CH).

25.3.6 PROTOCOL ID NUMBERS (PNS)

The Protocol Identification Number field contains one or more unique numbers assigned to the protocol. There are three different types of numbers that may appear:

1. A protocol number that has an alphabetic prefix followed by a hyphen and numerics, e.g., SWOG-1234, identifies the protocol as one being studied by the Southwest Oncology Group; abbreviations are in Appendix B.
2. the contract or grant number; and
3. the Clinical Trial Inventory Number, which is usually a seven-digit numeric preceded by three alphabetic characters.

Several different study groups may participate in the same protocol, so it is possible to have several study group numbers on one protocol.

Protocols from non-U.S. sources frequently contain a series of alphabetic strings identifying the country, study group, laboratory, etc.

Any one of the Protocol ID numbers can be used in CLINPROT to retrieve more detailed information about the protocol.

25.3.7 STUDY GROUP (SG)

The Study Group field contains the name (up to 30 characters) of the Co-operative Group or Cancer Center, etc. using the protocol. Because of the character limitation, names may sometimes contain abbreviations. However, each name will always be written the same way whenever it appears.

Study Group names can be entered directly as search queries, exactly as listed in the PDQ Index Term List (Appendix B). It is also possible to search this field with the acronym for the study group instead of the fuller form of the name. For example:

```
USER:
CANCER & LEUKEMIA GROUP B
PROG:
SS (1) PSTG (30)
USER:
CLB
PROG:
SS (2) PSTG (30)
```

These names (but not the acronyms) are also listed in the 0780.50 section of the CLINPROT Index Term List. If you are not in possession of either List when doing your search, it is best to do a NEIGHBOR xxx (SG) to be sure of the format for entering the name or acronym.

25.3.8 STATES/COUNTRIES (STS)

This data element lists the name of each state where there is at least one cancer treatment center using the protocol. It also lists the District of Columbia, Canada, and Puerto Rico when they are using a protocol that has been retrieved. Non-North America will appear if the protocol is being used in any other country.

A two-letter abbreviation for the state or country is always printed within parentheses, after the full name. For the 50 states and the District of Columbia, the two-letter abbreviation will be the U.S. postal code; for Canada, CD; for Puerto Rico, PR; and for Non-North America, NN.

These two-letter abbreviations can be used to print out the Locator fields for any state or country as needed. (See section on Locator fields for more information.)

25.3.9 THERAPY MODALITIES (TM)

This data element contains one or more index terms, from the PDQ Index Term List, (Appendix A) that identify the types of treatment methods used in the protocol. These terms must be typed exactly as they appear in the Index Term List.

25.3.10 TITLE (TI)

The Title field contains the protocol study phase (when given), the therapy modality, the drugs and/or drug combinations, and the type and site of the tumor. Drugs are expressed in one of three ways: by key drug names, by abbreviations alone, or by a drug combination acronym followed in parentheses by the abbreviations for the individual drug names, such as CMF (CTX/MTX/5-FU). A list of drug acronyms can be found in Appendix A of the CLINPROT chapter.

This field may be searched using STRINGSEARCH, or significant words or word fragments may be searched as Text Words.

25.3.11 TUMOR TYPE/SITE (TU)

The Tumor Type/Site field contains the tumor type or site as formatted and listed in the PDQ Index Term List (Appendix A). These terms must be entered into the computer exactly as they appear in the Index Term listing. An unqualified subject term will default to this field.

25.3.12 LOCATOR FIELDS

The Locator fields contain the names, addresses, and telephone numbers of contact oncologists at institutions that are using the protocol to treat cancer patients. The individual listed is often one of many physicians using the protocol at that center.

There are 54 Locator fields; one for each state, one for the District of Columbia, one for all foreign countries, Canada and Puerto Rico. Once a protocol is selected, a list of physicians using the protocol in a given state can be obtained by typing PRT and the appropriate TWO-LETTER ABBREVIATION(S), e.g., PRT NY.

These fields are printable but not directly searchable. Elements of the field have been inserted elsewhere in the unit record where they are directly searchable: the oncologist's name can be searched in the Institution Coordinator (IC) field; the state/country names can be searched in the States/Countries (STS) field. Following is an example of a locator field:

MI - O'Bryan RM/ (313) 876-1852; Henry Ford Hospital; 2799 West Grand
Boulevard; Detroit, MI 48202

25.4 SEARCHING PDQ

PDQ can be searched using the index terms appearing in the PDQ Index List (Appendix A) and/or by words (Text Words, TW) which might appear in the Title or Abstract fields. An unqualified term will default to the Tumor Type/Site (TU) field, so remember to qualify with (TW) when you are Text Word searching. For general rules of Text Word searching and Text Word generation, refer to Part 4 of this manual.

25.5 PDQ PRINT COMMANDS

There are three standard PRINT formats for this file: PRINT, PRINT FULL, and PRINT DETAILED. A PRINT SD command cannot be entered for a PRINT STANDARD instruction in this field as for other NLM databases. This is because this instruction in the file causes the SD, South Dakota, LOCATOR information to be printed. Therefore, use PRINT or PRINT STANDARD if the elements desired for printing are included in that format. See the Unit Record table for a list of the data elements that are displayed by each command.

Tailored PRINT commands, those in which the searcher selects the elements to be printed out, may be constructed according to the principles set forth in Part 4.

At the present, the PRINT OFFLINE capability cannot be used with PDQ. Please watch the NLM Technical Bulletin and the online NEWS for announcement of the availability of offline printing with the file. It is expected that availability will be announced in the early winter of 1983.

25.6 PDQ OFFSEARCH LIMITATIONS

At the present time, OFFSEARCHes cannot be entered with PDQ. Please watch the NLM Technical Bulletin and the online NEWS for announcement of the availability of OFFSEARCH with this file. It is expected that availability will be announced in the early winter of 1983.

APPENDIX A

PDQ INDEX TERMS

25.7 TUMOR TYPES/SITES

Note: Terms with the asterisk (*) are only included as category headings; they are not used as index terms to index protocols.

*Cancer Types

Leukemia

- Acute Lymphocytic Leukemia
- Acute Nonlymphocytic Leukemia
- Acute Undifferent. Leukemia
- Chron Lymphocytic Leukemia
- Chron Nonlymphocytic Leukemia
- Chron Leukemia-Blast Crisis
- Extramedullary Leukemia

Lymphoma

- Hodgkin's Disease
- NonHodgkin's Lymphoma
 - NHL-diffuse
 - NHL-nodular
- Lymphosarcoma
- Reticulum Cell Sarcoma
- Burkitt's Disease
- Mycosis Fungoides
- Lymphoma-other

Myeloma

- Polycythemia Vera

Germ Cell Tumors

Pediatric Solid Tumors

- Wilms' Embryoma
- Neuroblastoma
- Retinoblastoma
- Rhabdomyosarcoma
- Ewing's Sarcoma
- Histiocytosis
- Ped. Solid Tumors-other

Sarcoma

- Osteogenic Sarcoma
- Soft Tissue Sarcoma

Carcinoid

*Disease Parameters

- Metastatic Disease
- Nonmetastatic Disease
- Resectable Tumor
- Nonresectable Tumor
- Recurrent Disease

*Body Sites

Breast

Central Nervous System

- Brain
- CNS-other

- Endocrine System
 - Adrenal
 - Endocrine Pancreas
 - Thyroid
- Gastrointestinal System
 - Esophagus
 - Stomach
 - Pancreas
 - Liver/Gall Bladder
 - Colorectal
 - Small Intestine
- Genitourinary System
 - Bladder
 - Kidney
 - Prostate
 - Testis
 - Genitourinary-other
- Gynecologic System
 - Cervix
 - Ovary
 - Uterus
 - Trophoblast
 - Vagina
 - Vulva
- Head & Neck
- Mesothelioma
- Lung
 - Lung-Small Cell (Oat Cell)
 - Lung-Adenocarcinoma
 - Lung-Large Cell
 - Lung-Squamous Cell
- Skin Tumors
 - Melanoma
 - Skin Tumors-other

THERAPY MODALITIES

*Therapy Modalities

- Surgery
- Immunotherapy
 - Bacteria/Bacterial Substances
 - Virus/Viral Substances
 - Nonspecific Stimulants
 - Antibody Therapy
 - Tumor Cells/Cell Fractions
 - Other Cells/Cell Fractions
 - Autologous Bone Marrow Therapy
 - Bone Marrow Transplant
 - Interferon
 - Immunotherapy-other

- Chemotherapy
- Hyperthermia
- Radiosensitization
- Radiotherapy
 - High-LET heavy ions
 - High-LET neutrons
 - High-LET pions
 - Low-LET Co-60 gamma rays
 - Low-LET Implant
 - Low-LET electrons
 - Low-LET photons 1-4 MeV
 - Low-LET photons above 4 MeV
 - Mixed High/Low LET
 - Isotopic Therapy
- Endocrine Therapy
 - Ablative Surgery
 - Ovariectomy
 - Adrenalectomy
 - Hypophysectomy
 - Orchiectomy
 - Ablative Surgery-other
 - Hormonal Therapy
 - Antiestrogen Therapy
 - Steroid Therapy
 - Adrenal Blockade
 - Replacement Therapy
- Anticoagulation Therapy
- Vitamin Therapy
- Supportive/Preventive Therapy
 - Antibiotic Therapy
 - Antiemetic Therapy
 - Bone Marrow Transplantation
 - Management of Hypercalcemia
 - Neutropenia Attenuation-Li
 - Nutritional Therapy
 - Protective Environment
 - Radioprotection
 - Transfusion-Blood/Components
 - Vitamin Support
 - Supportive-other

APPENDIX B

25.8 STUDY GROUPS OR CANCER CENTERS

Cancer & Leukemia Group B (CLB)
Breast Cancer Task Force (BCTF)
Baltimore Cancer Res.Center (BCRC)
Brain Tumor Research Center (BTRC)
Brain Tumor Study Grp (BTSG)
Central Oncology Grp (COG)
Childrens Cancer Study Grp (CCG)
Children's Hosp.Oncol.Center (CHOC)
Children's Hosp.Philadelphia (CHP)
Coop Breast Cancer Grp (CBCG)
Comprehen. Cancer Ctr.-Florida (CCCSF)
Eastern Coop Oncology Group (ECOG)
Eur.Org.Research Treat.Cancer (EORTC)
GI Tumor Study Group (GTSG)
Georgetown Univ. Med. Oncology (GUMO)
Gynecologic Oncology Grp (GOG)
Intl.Group Study of Melanoma (IGM)
Natl.Tumor Institute of Italy (ITM)
Lung Cancer Study Group (LCSG)
Malignant Melanoma Grp (MMG)
Mayo Clinic (MAYO)
MD Anderson (MDA)
Melanoma Clinical Coop Grp (MCCG)
Midwest Child.Cancer Ctr (MIDWEST)
Mount Sinai School of Medicine (MTS)
Head & Neck Contracts Program (HNCP)
NCI-Cancer Center Program (NCI-D)
NCI-Clinical Oncology Program (NCI)
Natl.Bladder Cancer Project (NBCP)
Natl.Bladder Cancer Coll.Grp A (NBCCGA)
No.Calif.Oncology Group (NCOG)
No.Central Cancer Therapy Grp (NCCTG)
Natl.Cancer Inst.of Canada (CAN-NCIC)
Natl.Prostatic Cancer Project (NPCP)
Natl.Wilms' Tumor Study Grp (NWTS)
Ovarian Cancer Study Group (OCSG)
Polycythemia Vera Study Grp (PVSG)
Pediatric Oncology Group (POG)
Natl.Surg.Adj.Breast Project (NSABP)
Radiation Therapy Oncology Grp (RTOG)
Radiother.Hodgkins Disease Grp (RHDG)
Swiss Grp for Clin.Cancer Res. (SWS-SAKK)
Roswell Park Memorial Inst. (RPMI)
Southeastern Cancer Study Grp (SEG)

Sidney Farber Cancer Inst. (SFCI)
Sloan-Kettering (SK)
St.Jude Children's Res.Hosp. (SJCRH)
St.Vincent's Hosp., New York (SVH)
Southwest Oncology Group (SWOG)
Univ.Ariz.-Tucson (UARIZ)
Univ.Calif.-Los Angeles (UCLA)
Univ.Calif.-Berkeley (UCB)
Univ.Calif.-San Diego (UCSD)
Univ.Calif.-San Francisco (UCSF)
Uro-oncology Res.Grp (UORG)
Univ.Michigan (UMCT)
Univ.Texas-San Antonio (UTHSC)
VA Lung Cancer Study Grp (VALG)
VA Surg.Oncology Group (VASOG)
Wisconsin Clin.Cancer Ctr (WCCC)
Wake Forest Univ.-Bowman Gray (WFU)
Wayne State University (WSU)
Western Cancer Study Group (WCG)
Wilms' Tumor Study Group (WILMS)
Working Party for Lung Tumors (WPL)
Yale University (YALE)
Yorkshire Regional Chemo Grp (YORK)

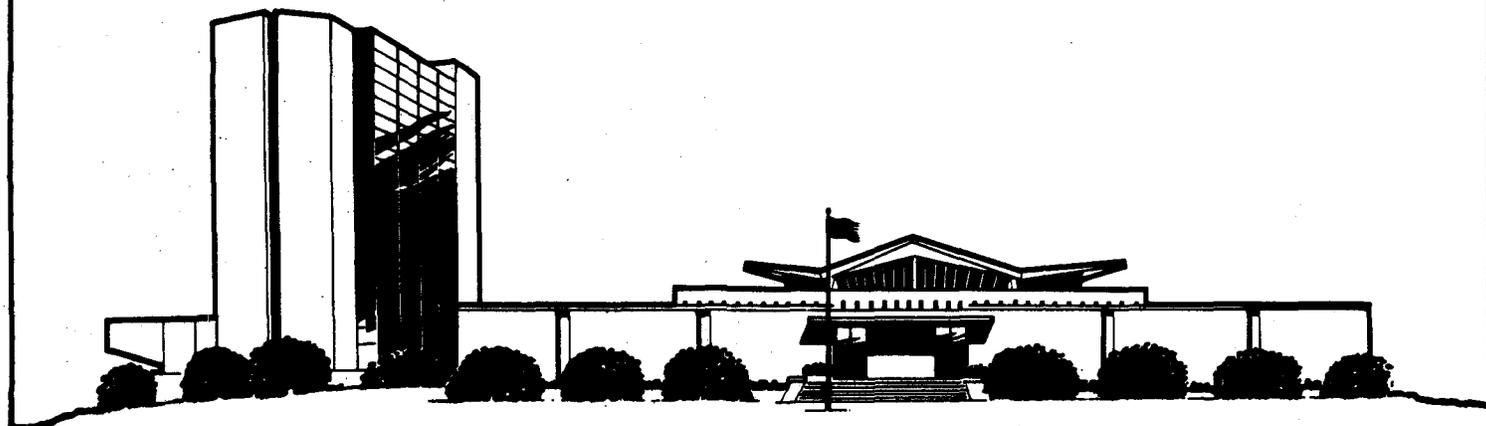
THE NLM TECHNICAL BULLETIN

REGULAR ITEMS

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September 1982

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January 1979 - August 1982



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DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	11,143	THROUGH 1982	22 OCT 82	
*BIOETHICS	12,934	JAN 73-DEC 81	10 MAR 82	8203(EM)
*CANCERLIT	318,541	JAN 63-OCT 82	18 OCT 82	8210(EM)
*CANCERPROJ	21,117	1978-1981	12 NOV 81	8110(EM)
*CATLINE	462,562	THROUGH 1982	22 OCT 82	
*CHEMLINE	540,402		13 SEP 82	8209(EM)
*CLINPROT	3,195		23 JUL 82	8207(EM)
*EPILEPSY HEALTH	36,472 214,645	1945-PRESENT JAN 75-NOV 82	20 OCT 80 11 OCT 82	8211(EM)
*HISTLINE	51,265		11 OCT 82	8209(EM)
MEDLINE	623,738	JAN 80-NOV 82	04 OCT 82	8211(EM)
MED79	264,479	JAN 79-DEC 79	14 DEC 81	
MED77	510,972	JAN 77-DEC 78	14 DEC 81	
+MED75	642,934	JAN 75-DEC 76	14 DEC 81	
+MED72	669,105	JAN 72-DEC 74	14 DEC 81	
+MED69	668,257	JAN 69-DEC 71	14 DEC 81	
+MED66	501,801	JAN 66-DEC 68	14 DEC 81	
MESH VOC	45,212	1982	18 OCT 82	
*NAME AUTH	137,666		18 OCT 82	
*PDQ	618		01 OCT 82	
*POPLINE	104,630	1970-OCT 82	11 OCT 82	8210(EM)
*RTECS	55,174	1979 ED.-JUL 82	13 SEP 82	
SDILINE	24,693	NOV 82	04 OCT 82	
*SERLINE	40,174	1982	14 OCT 82	
*TDB	3,764		26 JUL 82	
*TOXLINE	477,953		25 SEP 82	8209(EM)
CBAC	234,259	1979-VOL 97(4,5)		
TOXBIB	80,066	1979-OCT 82		
IPA (ASHP)	15,978	1979-VOL 19(13,14)		
HEEP	37,989	1979-VOL 11(10)		
PESTAB	8,209	1979-VOL 14(DEC 81)		
EMIC	35,996	1950-SEP 82		
ETIC	24,895	1950-MAY 82		
RPROJ	28,306	1979-FEB 82		
TD3	12,379	GRA & I 82(14-16)		
*TOXBACK74	474,653		19 APR 82	
CBAC	265,253	1974-1978		
TOXBIB	103,386	1974-1978		
IPA (ASHP)	30,606	1974-1978		
HEEP	61,871	1974-1978		
PESTAB	13,537	1974-1978		
+TOXBACK65	387,377		19 APR 82	
CBAC	196,015	1965-1973		
TOXBIB	112,170	1968-1973		
IPA	21,973	1969-1973		
HEEP	29,662	1970-1973		
HAPAB/PESTAB	12,966	1968-1973		
HAYES	10,039	1940-1968		
TMIC	4,552	1940-1973		

1) * = NLN ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

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TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the 1982 Online Services Reference Manual 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.

- SUNY SERVICE TO BE DISCONTINUED DECEMBER 13

- Please refer to the article on page 6 titled "MEDLARS Announcements for Year-End" for information concerning the discontinuance of MEDLARS service on the SUNY computer, effective December 13, 1982. This article also discusses plans to make all MEDLINE Backfiles available online and removal of EPILEPSYLINE from the NLM online system.
- PERMUTED MESH 1983 AVAILABLE

- The Permuted Medical Subject Headings, 1983 may now be ordered from The National Technical Information Service (NTIS). The price is \$13.00; the order number is PB83-101089.
- MESH TREE NUMBER CHANGES LISTING

- Annually, a list of MeSH Tree number changes for the coming MEDLINE database year has been included with the October issue of the Technical Bulletin. This year, the tree number changes for the 1983 MEDLINE databases (including all MEDLINE backfiles), which will become available on December 13, 1982, are included as part of the Medical Subject Headings Tree Structures, 1983 (NTIS order item, PB82-232745; \$12.00); the list is on pages I-VIII. Since this listing is now part of its parent publication, a separate listing will no longer be distributed with the Technical Bulletin.
- YEAR-END PROCESSING

- The 1983 MEDLINE and HEALTH files will be available online with January 1983 data on December 13, 1982. At that time, all searches using MeSH headings must conform to Medical Subject Headings, 1983. Changes for 1983 are reflected in various lists in the preface of the Medical Subject Headings - Annotated Alphabetic List, 1983. This publication has been available from the National Technical Information Service since mid-August; order information was given in the August 1982 Technical Bulletin.

In using these lists, please note that:

(1) the three lists of new headings (with previous indexing, with scope notes and by subcategory) contain only those headings that are not in the 1982 MeSH. They do not include new forms of existing headings; these headings appear in the list titled "New Medical Subject Headings Replacing Deleted Headings."

(2) in the list entitled "Deleted Medical Subject Headings with Replaced-by Headings," those headings followed by (en) or (ep) can still be used as search terms. Those few terms not followed by (en) or (ep) cannot be used as search terms and must be deleted from all stored and/or saved searches.

Other terms may remain in the searches and will automatically map to the new term; however, searchers should note that some of these headings may now map to a more generic heading.

(3) there are two lists of topical subheadings by category: since 1975 and 1966-1974. Before 1975, subheadings were allowed for entire categories, i.e., Categories A and B for the subheading anatomy & histology. Beginning 1975, specific subcategories could be specified, i.e., Categories A, B1, B2, B5, B6 for anatomy & histology. Also, for some subheadings, entire categories have been added and/or deleted.

(4) the list of tree number changes is included for the first time this year as part of the Tree Structures publication (see also Technical Note entitled "MESH TREE NUMBER CHANGES LISTING" in this issue). Although it is recommended that main heading terms themselves be used in the Explode instruction wherever possible, there are circumstances that require the use of the tree number instead, e.g., when a term is in more than one tree, and there are 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 must Explode using the desired tree number. This list may be used to validate tree numbers used in previous searches.

(5) the Pre-Explosion list includes 1982 Pre-Explosions only. The complete list of Pre-Explosions for 1983 is included with this issue as Appendix A.

All stored searches used with SDILINE and HEALTH in the Automatic SDI Program that require changes must be deleted and re-stored by December 10, 1982 for processing against the January 1983 data. (The January HEALTH and SDILINE SDIs will be processed beginning on or about December 11, 1982.) To facilitate this, searchers will be able to execute stored searches online between November 22nd and December 10th; the December 1982 SDILINE at NLM will contain 1983 MeSH terms at this time so searchers can run their stored searches against this revised SDILINE to check correct operation of stored strategies against the new vocabulary available in SDILINE only. In summary, the 1982 year-end processing schedule is as follows:

- | | |
|---------------------------------|--|
| November 8, 1982 | - December 1982 MEDLINE/SDILINE data at NLM and SUNY. |
| November 22, 1982 | - December 1982 SDILINE with 1983 MeSH terms up on the NLM computer with stored searches executable online. |
| December 11, 1982
(SATURDAY) | - The NLM system will be unavailable for searching in order to install the 1983 MEDLINE and HEALTH databases. SUNY will be available, however, 8:30-5:00 PM, ET. |

December 13, 1982 - 1983 MEDLINE and HEALTH files available with January 1983 data at NLM.

December 13, 1982 - HEALTH and SDILINE Automatic SDI's processed against January 1983 data after this date.

VETERANS' DAY - Both the NLM and SUNY computers will be up on Thursday, HOLIDAY SCHEDULE November 11, 1982. Non-prime rates will be in effect all day. The MEDLARS Management Service Desk will not be staffed.

HOLIDAY SCHEDULE - HOLIDAY SCHEDULE FOR 1983:

<u>HOLIDAY</u>	<u>DATE</u>	<u>SYSTEM STATUS</u>
New Year's Day (Observed)	Fri, Dec 31 (1982)	DOWN
New Year's Day	Sat, Jan 1	DOWN
G. Washington's B'day (Observed)	Mon, Feb 21	UP*
G. Washington's B'day	Tue, Feb 22	UP
Memorial Day	Mon, May 30	DOWN
Independence Day	Mon, Jul 4	DOWN
Labor Day	Mon, Sep 5	DOWN
Columbus Day (Observed)	Mon, Oct 10	UP*
Columbus Day	Wed, Oct 12	UP
Veteran's Day	Fri, Nov 11	UP*
Thanksgiving Day	Thu, Nov 24	DOWN
Christmas (Observed)	Mon, Dec 26	DOWN

*Non-prime rates will be in effect all day.

TRAINING CLASSES - The following Online Services Training Classes have been announced for January 1983:

<u>Date</u>	<u>Type</u>	<u>Location</u>
January 10-14	Initial	NLM
January 19-21	Abbrev. Initial	UCLA
January 24-28	Advanced	NLM
January 31-February 4	Initial	UCLA

For applications and additional information, please contact MMS.

OFFPRINTS FROM THE PDQ DATABASE (MANUAL 25.5, 25.6) - Users are reminded that OFFLINE prints and OFFSEARCH prints may not be requested from the PDQ database. If these capabilities become available, an announcement will be made in the Technical Bulletin and the online NEWS.

ADDITIONAL INFORMATION ON PDQ - Searchers receiving inquiries on the PDQ database from patients or the public may refer these inquiries to Karen Schlick, National Cancer Institute (NCI), 800/638-6694 or 301/496-5583. Inquiries from health professionals or members of the media may be referred to the Database Manager, NCI, 301/496-7403.

HEALTH FILE - Effective with the January 1983 HEALTH PLANNING & ADMINISTRATION database, which will be available on December 13, 1982, DATA ELEMENT CHANGES (MANUAL 23.4.19, 23.4.23) the following data elements will be deleted from existing records and no longer added to prospective records:

<u>Data Element Name</u>	<u>Category Qualifier</u>
1. CAS Registry Number/EC Number	(RN)
2. Name of Substance	(NM)
3. Name Fragments	(NF)

These data elements are being eliminated because they are outside the scope of the database, which is the administrative and social aspects of health care delivery.

CANCERLIT AUTOMATIC SDI (MANUAL 5.2.5, 16.3.9) - Reminder: Because CANCERLIT is now being indexed with MeSH Vocabulary, searchers may wish to consider modifying CANCERLIT Automatic SDI strategies to incorporate MeSH Headings. Remember that any MeSH Heading used in a CANCERLIT strategy must be qualified with (MH). If not qualified, a multi-term MeSH heading (e.g., Breast Neoplasms) will result in a NO POSTINGS (NP) message, and a single-term MeSH heading (e.g., HEART) will retrieve postings as a text word only.

PRE-EXPLOSIONS (PX) - A list of available Pre-Explosions (PX) for 1983 is enclosed as Appendix A.

1983 UPDATE SCHEDULE - Appendix B is the schedule for updating the following databases in 1983: MEDLINE/SDILINE, HEALTH, POPLINE, CANCERLIT, and TOXLINE.

TB INDEX - Appendix C is the revised index to the NLM Technical Bulletin, issues January 1979 through August 1982.

MEDLARS ANNOUNCEMENTS FOR YEAR-END

Lois Ann Colaianni, Acting Associate Director for Library Operations

I would like to take this opportunity to provide each searcher with as much advance notice as possible of important changes to the MEDLARS system planned for implementation at the end of 1982 and early in 1983.

NLM Databases to be Removed from SUNY

The contract to provide some MEDLARS databases on the computer at the State University of New York (SUNY) will be discontinued on December 13, 1982. As many are aware, NLM recently installed an IBM 3033 Multi-Processor (MP) computer system which was made fully operational on September 27, 1982. Because of this increased capacity at NLM, the assignment of new users to the SUNY computer as their primary access for selected databases will be discontinued immediately and all users will have full access to all databases at NLM effective December 6, 1982. There will be no SUNY access after December 13, 1982.

The NLM computer will be operational Monday-Friday from 3:00 AM to 9:00 PM ET and on Saturdays from 8:30 AM to 5:00 PM ET. Remember that Saturday hours cannot be guaranteed.

Between December 6 and 10 all users will have full access to all databases presently available at NLM and SUNY. This interval will provide time for all users to display saved or stored searches on the SUNY computer and restore or resave any searches that should be retained on the NLM computer. Please refer to the new 1982 edition of the NLM Online Services Reference Manual if information is needed on network access to the NLM computer, STORED/SAVED searches, or Stored Addresses. Logging into the NLM computer through TELENET and TYMNET is covered in Part 3 of the Manual. The STORESEARCH capability is covered in Part 5.2 and SAVESEARCH is covered in Part 5.3. Information on the PROFILE command used to create or modify Stored Addresses is contained in Part 4.9.17. If assistance is needed, please contact the MEDLARS Management Service Desk.

With SUNY access discontinued, it is possible that access to the NLM computer may become "busier" until additional telecommunications lines can be installed. The access ports for the NLM computer are divided between TELENET and TYMNET; therefore, if one network becomes busy, please try the other. The TELENET message "301 20 NOT RESPONDING" can simply mean that all TELENET ports into the NLM computer are presently in use. If you receive this message from TELENET and you have a TYMNET access node in your city, please try to access the NLM computer using TYMNET instead. Alternatively, if the TYMNET message "HOST BUSY" is received, try to access the NLM computer via TELENET.

MEDLINE Backfiles Online

With the increased capacity for storage made available by the new IBM 3033 MP system, NLM plans to make all MEDLINE Backfiles available online, effective December 13, 1982. (This is when the databases become available with 1983 MeSH terms.) The files will be resegmented as follows:

1. MED66 will become a 5-year file (1966-1970) and the file name MED69 will disappear.
2. A new file, MED71, will be created and will be a 4-year file (1971-1974). The file name MED72 will disappear.
3. The MED75 file containing data for 1975 and 1976 will retain its present configuration.
4. MED77 will be merged with MED79 and will become a 3-year file (1977-1979) known as MED77. The file name MED79 will no longer be used.
5. MEDLINE will retain the 1980 data and will be a 3-year growing to a 4-year file (1980-1983). The planned new configuration is:

<u>Online File Name</u>	<u>Coverage</u>
MEDLINE	(1980-present)
MED77	(1977-78-79)
MED75	(1975-76)
MED71	(1971-72-73-74)
MED66	(1966-67-68-69-70)

OFFSEARCHing for MEDLINE and its Backfiles will continue to be available. Remember, however, that each OFFSEARCH now costs \$1.00 per database searched. With the availability of the MEDLINE Backfiles online, it is the opportune time to take advantage of SAVE or SAVESEARCH. Using the SAVESEARCH capability to save a strategy in one file and then immediately executing it in another file combined with online printing or the PRT OFFLINE command (if that is more cost effective or desirable) can bypass OFFSEARCH charges.

The Library believes that the searching needs of health professionals will be facilitated by mounting MEDLINE Backfiles online and that discontinuation of the MEDLARS service on the SUNY computer will make access more equitable for all MEDLARS users. The SUNY computer facility has provided excellent service for the network for a little over nine years. We are very grateful to them and will miss them.

EPILEPSYLINE Database to be discontinued on MEDLARS

The Epilepsy Branch of the National Institute of Neurological and Communicative Disorders and Stroke (NINCDS), NIH, is in the process of transferring the EPILEPSYLINE database from the NLM MEDLARS system to the Bibliographic Retrieval Services (BRS) system. NINCDS anticipates that by January 1, 1983, the file will be available under the BRS system. Effective January 1, 1983, the EPILEPSYLINE file will be discontinued on the NLM MEDLARS system.

◆◆◆◆ PLEASE TYPE NEWS TO SEE THE MOST RECENT NEWS ITEMS ONLINE ◆◆◆◆

AVLINE UPDATE - OCTOBER 1982
 Alice E. Jacobs, Cataloging Section, NLM

AVLINE Status Report

As of mid-september 1982, the AVLINE database includes over 11,000 citations to audiovisual materials in the health sciences. Over half of these programs, 63.8%, were produced within the last seven years.

The chart below summarizes the subject content of the database. This analysis is based on the broad categories of the National Library of Medicine Classification, 4th ed. Revised, and supplemental Library of Congress schedules used in classifying audiovisuals at NLM.

AVLINE CONTENT BY SUBJECT

Subject	Number in AVLINE	% of File
Clinical	7,746	70.30
Pre-clinical	1,017	9.23
Nursing	847	7.69
Dentistry	770	6.99
Veterinary Medicine	85	.77
Miscellaneous	<u>553</u>	<u>5.02</u>
	11,018	100%

Use of Non-Print Subject Headings in AVLINE

During AVLINE's first two years of operation (1976-77), audiovisual titles selected for the database were analyzed by the NLM Index Section in a manner more similar to MEDLINE indexing than to CATLINE subject cataloging. The most notable difference from subject heading practice used in cataloging printed works was the assignment of numerous non-print subject headings and check tags in addition to 3-5 print headings for each title. In mid-1977, NLM catalogers began assigning subject terms for a limited number of AVLINE titles, and by December 1978 had assumed responsibility for all subject cataloging, following policies generally consistent with CATLINE with one major deviation--the continued use of indexing check tags. Beginning with titles cataloged in 1979, the use of check tags was discontinued (except in rare cases to emphasize a sex/disease relationship) and the use of cataloging age-related topical subheadings was implemented for audiovisuals. Thus, the subject assignment for AVLINE became more consistent with other NLM cataloging policies in areas not affected by unique cataloging rules for non-print material.

Because of the evolution of subject cataloging for audiovisuals, non-print subject headings have been assigned more liberally in AVLINE than in CATLINE where non-print terms are used only to provide searchable access for geographic terms or minor descriptors. In August 1982, the same policy for limiting the assignment of non-print subject headings was adopted for audiovisuals cataloging. All significant differences between NLM subject heading practices for audiovisuals and those used for printed works have now been eliminated. Non-print subject headings present on retrospective AVLINE records will not be removed or modified.

DELETION OF TRL RECORDS FROM CATLINE
Sally K. Sinn, Cataloging Section, NLM

In September 1982, approximately 4,500 CATLINE records representing technical report literature cataloged at NLM from 1968 to 1973 were deleted from the database. These technical reports, or "TRLs," were cataloged according to COSATI* rules and were not given classification numbers, but were shelved by the contract or grant number appearing in the Call Number (CA) field of the CATLINE record. In 1973, NLM discontinued the practice of giving special cataloging treatment to technical reports. Any reports acquired in hard-copy after that time were cataloged and classified according to standard NLM cataloging practice. In recent years, NLM has acquired very few technical reports in hard-copy, relying instead upon the microfiche service available from the National Technical Information Service (NTIS). The hard-copy reports originally given COSATI cataloging have been replaced by microfiche copies or, in some cases, discarded. Access to the microfiche reports in the NLM collection is provided by the published NTIS indexes.

*"Standard for Descriptive Cataloging" issued October 1966 by the Committee on Scientific and Technical Information (COSATI) of the Federal Council for Science and Technology.

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - September 1982
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. 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. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

ACTA MEDICINAE SINENSIS
 1,1980?--
 KARL F. HAUG VERLAG
 HEIDELBERG GERMANY, WEST
 KARL F. HAUG VERLAG GMBH CO., 6900
 HEIDELBERG, WEST GERMANY
 IN PROCESS
 A06932500

JOURNAL OF CARBOHYDRATE CHEMISTRY
 1N1,1982--
 MARCEL DEKKER
 THREE ISSUES WILL BE PUBLISHED IN 1982.
 NEW YORK UNITED STATES
 MARCEL DEKKER INC., 270 MADISON AVENUE, NEW
 YORK NY 10016
 IN PROCESS
 J15310000
 \$75.00

ANAESTHESIA
 1,1982--
 CHURCHILL LIVINGSTONE
 EDINBURGH SCOTLAND
 CHURCHILL LIVINGSTONE, ROBERT STEVENSON
 HOUSE, 1-3 BAXTER'S PLACE, LEITH WALK,
 EDINBURGH, EH1 3AF, SCOTLAND
 IN PROCESS
 A26504500

JOURNAL OF CRYSTALLOGRAPHIC AND
 SPECTROSCOPIC RESEARCH
 12N1,FEB 1982--
 PLENUM PRESS
 CONTINUES: JOURNAL OF CRYSTAL AND MOLECULAR
 STRUCTURE.
 NEW YORK UNITED STATES
 PLENUM PUBLISHING CORPORATION, 233 SPRING
 STREET, NEW YORK, NY 10013
 IN PROCESS
 J18164000
 \$78.00

BERICHTE GYNKOLOGIE GEBURTSHILFE
 118N1,1982--
 SPRINGER VERLAG
 CONTINUES: BERICHTE UBER DIE GESAMTE
 GYNKOLOGIE UND GEBURTSHILFE SOWIE DEREN
 GRENZGEBIETE.
 BERLIN GERMANY, WEST
 IN PROCESS
 B06110000

MEDICINE AND LAW
 1N1,1982--
 SPRINGER VERLAG
 BERLIN GERMANY, WEST
 SPRINGER-VERLAG, HEIDELBERGER PLATZ 3,
 D-1000 BERLIN 33, WEST GERMANY
 IN PROCESS
 M22155000
 \$76.00

CHILD NURTURANCE
 1,1982--
 PLENUM PRESS
 NEW YORK UNITED STATES
 PLENUM PRESS, 233 SPRING STREET, NEW YORK
 NY 10013
 IN PROCESS
 C18115000

ECHOCARDIOGRAPHY
 1,1982--
 CHURCHILL LIVINGSTONE
 EDINBURGH SCOTLAND
 CHURCHILL LIVINGSTONE, ROBERT STEVENSON
 HOUSE, 1-3 BAXTERS PLACE, LEITH WALK,
 EH13AF, SCOTLAND
 IN PROCESS
 E00810000

CURRENT REVIEWS IN OBSTETRICS AND
 GYNAECOLOGY
 1,1982--
 CHURCHILL LIVINGSTONE
 EDINBURGH SCOTLAND
 CHURCHILL LIVINGSTON, ROBERT STEVENSON
 HOUSE, 1-3 BAXTER'S PLACE, LEITH
 WALK, EDINBURGH, EH1 3AF, SCOTLAND
 IN PROCESS
 C57295500

JOURNAL OF AGED CARE
 1981--
 HAWORTH PRESS
 CONTINUES AGED CARE AND SERVICES REVIEW.
 NEW YORK UNITED STATES
 ON ORDER
 J10770000

MICROBIAL INTERACTIONS AND COMMUNITIES
1,1982--
ACADEMIC PRESS
LONDON
ON ORDER
M34045000

ENGLAND

SERANO SYMPOSIA PUBLICATIONS FROM RAVEN
PRESS
1,1982--
RAVEN PRESS
NEW YORK
IN PROCESS
S20326000

UNITED STATES

SECRETORY PROCESS
1,1982--
ELSEVIER BIOMEDICAL PRESS
AMSTERDAM
ELSEVIER SCIENCE PUBLISHING CO., INC., 52
VANDERBILT AVE., NEW YORK, N.Y. 10017
IN PROCESS
S15730000

NETHERLANDS

WILEY SERIES ON CURRENT TOPICS IN
REPRODUCTIVE ENDOCRINOLOGY
1,1982--
WILEY
CHICHESTER
IN PROCESS
W05953000

ENGLAND

ZENTRALBLATT KINDERHEILKUNDE
129N1,1982--
SPRINGER-VERLAG
CONTINUES: ZENTRALBLATT FUR DIE GESAMTE
KINDERHEILKUNDE.
BERLIN
SPRINGER-VERLAG, HEIDELBERGER PLATZ 3,
D-1000 BERLIN 33, WEST GERMANY
IN PROCESS
Z07185000

GERMANY, WEST

AVAILABLE PRE-EXPLOSIONS

APPENDIX A

Pre-explosions added for 1983 are preceded by (83).

<u>Pre-explosion Name (PX)</u>	<u>Tree No.</u>
ANTIBIOTICS	D20.85
BACTERIA	B3
BACTERIAL INFECTIONS	C1.252
BEHAVIOR	F1.145
BEHAVIOR AND BEHAVIOR MECHANISMS	F1
(83)BIOCHEM PHENOM METAB	G6
BRAIN	A8.186.211
CARBOHYDRATES	D9.203
CARDIOVASCULAR DISEASES	C14
(83)CARDIOVASCULAR SYSTEM	A7
CELLS	A11
CENTRAL NERVOUS SYSTEM	A8.186
CENTRAL NERVOUS SYSTEM DISEASES	C10.228
(83)CHEMISTRY, ANALYTICAL	E5.196
DENTISTRY	E6
(83)DIAGNOSIS, LABORATORY	E1.223
DIGESTIVE SYSTEM DISEASES	C6
ENZYMES	D8.586
GENETICS	G5
HEALTH FACILITIES	N2.278
HEALTH SERVICES	N2.421
HEART DISEASES	C14.280
HORMONES	D6.472
(83)IMMUNITY	G4.610
IMMUNOLOGIC FACTORS	D24.611
LIPIDS	D10.516
MAMMALS	B2.649
MENTAL DISORDERS	F3.709
METABOLIC DISEASES	C18.452
MISCELLANEOUS TECHNICIS	E5
MOUTH AND TOOTH DISEASES	C7
NEOPLASMS	C4
NERVOUS SYSTEM	A8
NERVOUS SYSTEM DISEASES	C10
NEUROLOGIC MANIFESTATIONS	C10.597
ORGANIZATION AND ADMINISTRATION	N4.452
(83)PHYSIOLOGY, GENERAL	G7
PROTEINS	D12.776
RESPIRATORY TRACT DISEASES	C8
SIGNS AND SYMPTOMS	C23.888
STEROIDS	D4.808
SURGERY, OPERATIVE	E4
UNITED STATES MC [as MeSH heading]	Z1.107.567.875
UNITED STATES [as place of publication]	Z1.107.567.875
VASCULAR DISEASES	C14.907
VERTEBRATE VIRUSES	B4.909
VERTEBRATES	B2
VIRUS DISEASES	C2
VIRUSES	B4
WOUNDS AND INJURIES	C21.866

Remember to disguise the AND in names of pre-explosions just as you do for regular searching on MeSH headings with embedded ANDs.

DATABASE UPDATE SCHEDULE FOR 1983

<u>UPDATE 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>
JAN	DEC 13	DEC 13	JAN 10	JAN 17	JAN 24
FEB	JAN 3	JAN 10	FEB 14	FEB 21	FEB 28
MAR	FEB 7	FEB 14	MAR 14	MAR 21	MAR 28
APR	MAR 7	MAR 14	APR 11	APR 18	APR 25
MAY	APR 4	APR 11	MAY 9	MAY 16	MAY 23
JUN	MAY 2	MAY 9	JUN 13	JUN 20	JUN 27
JUL	JUN 6	JUN 13	JUL 11	JUL 18	JUL 25
AUG	JUL 5*	JUL 11	AUG 15	AUG 22	AUG 29
SEP	AUG 8	AUG 15	SEP 12	SEP 19	SEP 26
OCT	SEP 6*	SEP 12	OCT 10	OCT 17	OCT 24
NOV	OCT 3	OCT 10	NOV 14	NOV 21	NOV 28
DEC	NOV 7	NOV 14	DEC 19	DEC 19	DEC 27*

*Modified due to holiday.

December updates for POPLINE, CANCERLIT, and TOXLINE are subject to change.

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THE NLM TECHNICAL BULLETIN**



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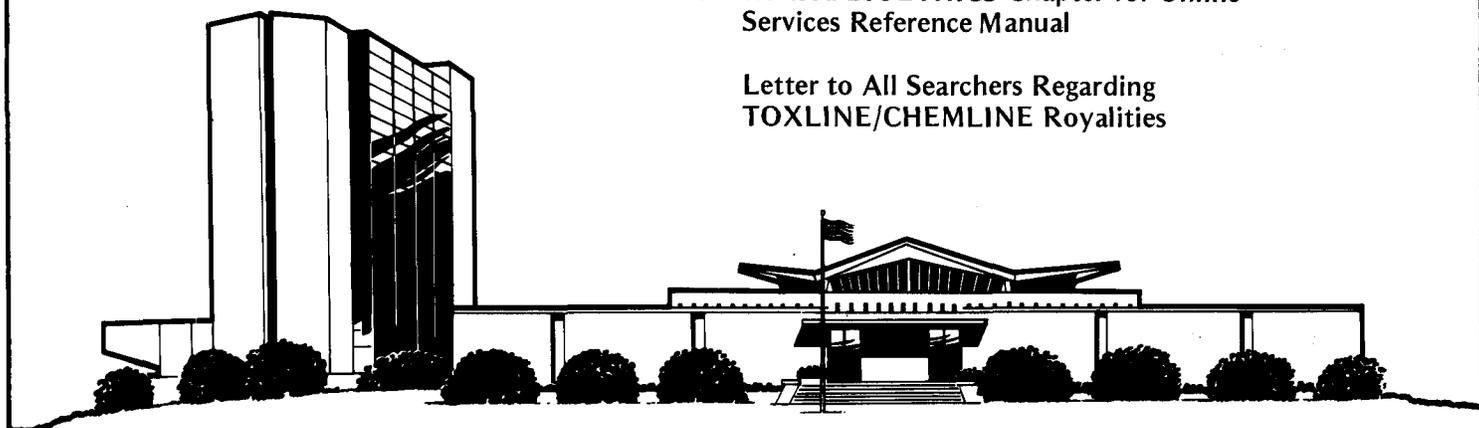
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1) * = NLM ONLY

2) + = AVAILABLE ONLY THRU OFFSEARCH

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 Bethesda, Maryland 20209

TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the 1982 Online Services Reference Manual 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.

NLM COMPUTER UNAVAILABLE SATURDAY DECEMBER 11, 1982 - REMINDER: The NLM computer will be unavailable on Saturday, December 11, 1982 in order to install the 1983 MEDLINE and HEALTH databases. SUNY will be available from 8:30 AM to 5 PM ET. Please see the Technical Note in the October 1982 Technical Bulletin, p. 2, titled "YEAR-END PROCESSING," for additional information.

SUNY COMPUTER CEASING OPERATION - REMINDER: Beginning Monday, December 13, 1982, the SUNY computer will no longer be available to MEDLARS users for searching. All users must use the NLM computer on and after this date. Please see the article in the October 1982 Technical Bulletin, p. 5, titled, "MEDLARS ANNOUNCEMENTS FOR YEAR-END" for details on this and other changes to the system taking place on December 13.

NLM HOURS INCREASED - Beginning Monday, December 13, 1982 hours of operation on the NLM computer will be as follows:
 Monday-Friday 3:00 AM - 9:00 PM ET
 Saturday 8:30 AM - 5:00 PM ET
 Total Hours: 98.5

Users are reminded that Saturday hours cannot be guaranteed. Prime/non-prime time hours remain the same:

Prime Time: 10 AM - 5 PM ET (Monday-Friday)

Non-Prime Time: 3 AM - 10 AM and
 5 PM - 9 PM ET (Monday-Friday)
 All day Saturday

DECEMBER HOLIDAY SCHEDULE - The NLM computer will be down all day on the following dates in observance of the Christmas and New Year's holidays:
 December 24, 1982 (Friday)
 December 25, 1982 (Saturday)
 December 31, 1982 (Friday)
 January 1, 1983 (Saturday)

MEDLARS Management Section will not be staffed on either Friday.

PRE-EXPLOSIONS 1983 - Six new pre-explosions have been added for 1983 searching:

<u>Pre-explosion Name (PX)</u>	<u>Tree No.</u>
BIOCHEM PHENOM METAB	G6
CARDIOVASCULAR SYSTEM	A7
CHEMISTRY, ANALYTICAL	E5.196
DIAGNOSIS, LABORATORY	E1.223
IMMUNITY	G4.610
PHYSIOLOGY, GENERAL	G7

The 1983 Annotated Alphabetic MeSH went to press several months before these new pre-exploded headings were decided upon. In the alphabetic list, each 1982 pre-explosion is indicated by a black dot next to the pre-exploded subject heading. You may wish to add a black dot next to each of the six newly pre-exploded headings. You may also wish to add these to the listing of 1982 pre-exploded headings on pages LXXXIII-LXXXIV.

MLA CONTACT
HOURS FOR
1983 UPDATE

- Members of the Medical Library Association (MLA) who attend the 1983 regional NLM Update sessions may apply for four contact hours toward MLA recertification. MLA (not NLM) awards these contact hours to individuals at the time of their application for recertification. For details on the recertification process, please contact the Medical Library Association, 919 North Michigan Avenue, Chicago, Illinois 60611 (312/266-2456).

CLINPROT
INDEX TERM
LIST

- The CLINPROT Index Term Listing for October 1982 is NOW available. It may be requested from the International Cancer Research Data Bank Program, 5333 Westbard Avenue, Westwood Building, Room 10A-18, Bethesda, MD 20205 or MEDLARS Management Section.

BACKFILE
POSTINGS IN
MESH VOCABULARY
FILE
(MANUAL 6.8.2)

- After December 13, 1982, the date when the 1983 MEDLINE databases become available, the Backfile Postings field of the MeSH Vocabulary File will be changed to reflect the new configuration of the MEDLINE backfiles. The four data elements will be:
 - 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 has two entries: the total postings for the term in a particular backfile and the Index Medicus (IM) postings (indicated by an asterisk).

For example, one descriptor term in the MeSH Vocabulary File may have entries similar to the following:

M77 - 179
M77 - *120
M75 - 166
M75 - *131
M71 - 195
M71 - *155
M66 - 183
M66 - *101

Watch the online NEWS for the date on which these changes will be implemented.

ENCODING LEVEL (EL) IN NAME AUTHORITY FILE (MANUAL 10.4.6) - The Encoding Level (EL) field in the NAME AUTHORITY FILE (NAF), which is the cataloging status of the bibliographic record, will now be translated from the codes currently used by the computer when the (EL) field is printed both online and in offprints. The codes must still be used in searching, however.

<u>SEARCH CODE (EL)</u>	<u>TRANSLATION ON PRINTS (EL)</u>	<u>VALUE</u>
F	FULL LEVEL	Full Cataloging
L	LIMITED	Limited Cataloging
R	RETROSPECTIVE	Retrospective (RDES)
8	CIP	CIP

For example:

```
file naf
PROG:
YOU ARE NOW CONNECTED TO THE NAME AUTHORITY FILE.
```

```
SS 1 /C?
USER:
8 (el)
PROG:
SS (1) PSTG (53)
```

```
SS 2 /C?
USER:
prt 1 el
PROG:
```

```
1
EL - CIP
```

This change applies to NAF only.

BIOETHICS MANUAL CHAPTER - Enclosed is a revised BIOETHICS chapter for the 1982 Online Services Reference Manual. This is a complete replacement for Part 21.

PLEASE TYPE NEWS TO SEE THE MOST RECENT NEWS ITEMS ONLINE

BIOETHICS DATABASE RESTRUCTURED
 Tamar Joy Kahn, Sr. Bibliographer
 Cecily Orr, Bibliographer
 Kennedy Institute of Ethics, Georgetown University

INTRODUCTION

The Kennedy Institute of Ethics at Georgetown University and the National Library of Medicine have recently completed a major restructuring of the BIOETHICS file. Several new search features have been added, and the bibliographic citations will now be based on the American National Standards Institute (ANSI) standard.* The changes were incorporated with the November 1982 update, 8211 (EM). The 13,000 existing BIOETHICS records, Entry Months 7904 through 8203, have been machine-converted to correspond as closely as possible to the new formats. An overview of the changes in data elements is presented below, along with some examples. A completely revised BIOETHICS chapter for the Online Services Reference Manual is enclosed with this issue of the Technical Bulletin. The online EXPLAIN for the database has also been revised (enter EXPLAIN UNIT RECORD to print online).

SUMMARY OF CHANGES

- > Ten data elements have been added to the BIOETHICS unit record. These are explained in the Data Element section of this article, with further details to be found in the enclosed BIOETHICS chapter.
- > The search status of five existing data elements has been changed. See the section of this article on Search Status for details.
- > Punctuation changes, related to adoption of the ANSI standard, have occurred in four existing data elements. See the section on Punctuation for searching implications.

DATA ELEMENT ADDITIONS

1. ABSTRACT AUTHOR (AA)

Beginning with records added in 8211 (EM), the presence of KIE in this field indicates that the record includes a short abstract written by a staff member at the Kennedy Institute of Ethics. The AA field is directly searchable:

USER:
 RECOMBINANT DNA RESEARCH (KW) AND KIE (AA)

2. ABSTRACT (AB)

Beginning with records added in 8211 (EM), a brief abstract is provided for articles from the following journals: *American Journal of Public Health; Bioethics Quarterly; British Medical Journal; Ethics; Hastings Center Report; Journal of Health Politics, Policy and Law; Journal of Medical Ethics; Journal of Medicine and Philosophy; Journal of the American Medical Association; Lancet; Nature; New England Journal of Medicine; Philosophy and Public Affairs; Science; and Social Science and Medicine.*

*American National Standard for Bibliographic References, ANSI Z39.29-1977

Significant words in the abstract are Text Word searchable. The abstracts print in the PRT AR, PRT DL, and tailored print formats.

3. AUTHORSHIP STATEMENT (AS)

Beginning with records added in 8211 (EM), this field is used to designate an author's function as editor, compiler, or translator of a document. It is also used for the designation "et al." in the case of multiple authorship. The AS field prints with all print commands, immediately following the Author (AU) field.

Citations with an Entry Month of 8203 or earlier have function designations as part of the Author field itself. The change in newer records was made for purposes of inhouse processing at the Kennedy Institute of Ethics; it does not affect searching.

4. COLLATION (CO)

This piece of information appears in citations for audiovisual materials, bills, laws, monographs, and unpublished documents. It was formerly only a part of the Source (SO) field. In records input beginning with 8211 (EM), it remains as part of the SO field but also prints as a separate field with PRT DL or a tailored print command.

5. DATE OF PUBLICATION (DP)

This information was formerly an undifferentiated part of various fields, depending on publication type. It is now always found in the Source (SO) field and also prints as a separate field with PRT DL or a tailored print command.

Beginning with records added in 8211 (EM), the DP field contains the most complete publication data available. Records with an Entry Month of 8203 or earlier contain a four-digit year only (this field was retrospectively created from the Year field for the older records). Data in the field can vary depending both on age of the record and publication type--the following are all examples of the DP field:

1980:	1982 OCT 7-15:
1982 FEB;	1981/1982.
1982 JUL/AUG;	1982 FEB 3 (DATE OF DECISION).

The DP field is directly searchable. Because the final punctuation is variable, it is recommended that DP always be searched with a truncation symbol (:) at the end. The word "all" may be used before the truncated term to avoid a possible Multi-Meaning Message:

USER:
HOST MOTHERS (KW) AND ALL 1981: (DP)

6. GENERAL NOTE (GN)

This new field replaces the former Note (NO) field in both new and old records. It is Text Word searchable and prints in the PRT FU, PRT AR, PRT DL, and tailored formats.

7. PAGINATION (PG)

This information was formerly only a part of the Source (S0) field. It remains a part of S0 in records added as of 8211 (EM) but also prints as a separate data element in the PRT DL and tailored formats.

8. CITY OF PUBLICATION (PL)

This information was formerly only a part of the Source (S0) field. In records input beginning in 8211 (EM), it prints as a separate data element in the PRT DL and tailored formats as well as within the S0 field.

9. PUBLISHER (PU)

In records added in 8211 (EM) or later, the name of the publisher of an analytic, audiovisual material, or monograph will be found in the separate PU field, as well as in the composite Source (S0) field. This element will also provide availability/source information for audiovisuals, bills, and unpublished documents. In older records, the publisher or availability statement is found only as an undifferentiated part of the S0 field. The new PU field is Text Word searchable:

USER:
BALLINGER (TW)

PU prints as a separate data element in the PRT DL and tailored formats.

10. SERIES TITLE (SE)

Series titles that are relevant to bioethical topics are included in the records of audiovisuals and monographs. In records added in 8211 (EM) or later, SE is a separate field which is directly and Text Word searchable. It prints in the PRT FU, PRT AR, PRT DL, and tailored formats. In older records, series information may be found in the General Note (GN) field, which is Text Word searchable only. It is recommended, therefore, that series titles be retrieved using the Text Word searching capability. This can be followed, if necessary, by a STRINGSEARCH of the SE and GN fields to eliminate irrelevant citations picked up from other Text Word searchable fields.

SEARCH STATUS CHANGES IN EXISTING DATA ELEMENTS

1. CORPORATE NAME (CN)

A corporate name as author is now directly as well as Text Word searchable. When searched directly, the name must be input literally, with internal punctuation and spaces included, and followed by the truncation symbol (:) to accommodate variations in ending punctuation. The word "all" may be used before the truncated name to avoid a possible Multi-Meaning Message:

USER:
ALL AMERICAN MEDICAL ASSOCIATION: (CN)

USER:
ALL U.S. SUPREME COURT: (CN)

2. ENTRY MONTH (EM)

This field is now rangeable as well as directly searchable. The EM qualifier must always be used for ranging:

USER:
ARTIFICIAL INSEMINATION (KW) AND FROM 8201 TO 8212 (EM)

The above strategy will retrieve all citations on artificial insemination that were input in 1982.

3. GENERAL NOTE (GN)

This field was formerly the Note (NO) field and was not searchable as such. It is now Text Word searchable in both old and new records. (See also the section on GN in DATA ELEMENT ADDITIONS.)

4. KEYWORDS (KW)

The KW field is now Text Word searchable in addition to being directly searchable. Section 21.4.2 of the revised BIOETHICS chapter contains an explanation of the applicability of Text Word searching to the KW field.

The revised BIOETHICS chapter includes, for the first time, an alphabetical list of all Keywords from the Bioethics Thesaurus, a controlled indexing vocabulary developed at the Kennedy Institute of Ethics. Although proper name Keywords are not included in this list, geographic names are now mapped to their equivalent MeSH Headings and can therefore be exploded using the appropriate MeSH Heading (MH) or MeSH Tree Number (MN).

Keywords print in the PRT DL and tailored formats. They also print in a new format option, PRT KIE, designed for the convenience of searchers interested in Kennedy Institute of Ethics indexing and document identification policies. It displays the same data elements as the standard PRT option, plus Keywords (KW), Unique Identifier (UI), and Publication Type (PT).

5. MONOGRAPHIC INFORMATION (MI)

This field, formerly not searchable, has been made Text Word searchable.

CHANGES IN PUNCTUATION AFFECTING SEARCHING

Records input in 8211 (EM) or later differ from older records in the ending punctuation of four directly searchable data elements. A final truncation symbol (:) should be used with these elements to ensure complete retrieval. The affected fields are:

<u>Element/Category Qualifier</u>	<u>Search Format</u>
ISBN (BN)	0-03-256-6:
Corporate Name (CN)	U.S. DEPARTMENT OF THE NAVY:
Date of Publication (DP)	1974: 1982 APR:
Title of Journal (TJ)	LANCET:

Truncated terms may be preceded by the word "all" to avoid a possible Multi-Meaning Message.

CONCLUSION

The changes described above should increase the usefulness of the BIOETHICS file and the ease with which it can be searched. Inquiries and suggestions are welcome; they can be addressed to either of the authors at the Kennedy Institute of Ethics, Georgetown University, Washington, DC 20057 (telephone: 202/625-2371), or to MEDLARS Management Section.

NLM INITIAL ONLINE TRAINING

Lois Ann Colaianni, Acting Associate Director for Library Operations

The National Library of Medicine (NLM) offers training in searching the online databases available through the MEDLARS system. Currently, the Initial Online Services Training class is a one-week session 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. This five-day class provides an introduction to various databases including MEDLINE, HEALTH PLANNING AND ADMINISTRATION FILE, CHEMLINE, TOXLINE, CANCERLIT, CANCERPROJ, CLINPROT, and PDQ. Lectures are accompanied by "hands-on" terminal exercises during the course.

Recently, this Initial Training class has been redesigned into modules to accommodate the needs of the trainees. The course objectives remain unchanged. After six months of experience using the restructured course, the redesigned Initial Training class will begin officially in February 1983.

The first module of the redesigned Initial Training is a required three-day core course that concentrates on MEDLINE and discusses the system mechanics and capabilities involved in searching MEDLINE. The second and third modules are highly recommended but not required sessions taught on the 1 1/2 days immediately following the first module. These modules provide additional lectures and terminal exercises using the toxicological and cancer databases. In all three modules, "hands-on" time is allotted so that trainees may interact with the online system and gain practical experience with techniques presented during the lectures.

Specifically, Module I of Initial Training provides an introduction to the MEDLARS system and discusses the following:

- 1) brief history of MEDLARS with an overview of all available databases;
- 2) system mechanics - access procedures and basic commands;
- 3) special searching capabilities, i.e., free-text searching, stringsearch, offsearch, storesearch, and save/save-search;
- 4) use of the controlled vocabulary MeSH (Medical Subject Headings); and
- 5) explanation of the MEDLINE unit record and formulating search strategies.

Attendance at these three days of Module I is required for certificates and new user identification codes, which are awarded at the end of Day 3.

The final 1 1/2 days, Modules II and III of Initial Training, introduce the trainee to the scope and particular searching requirements of several specialized databases available through NLM's MEDLARS system.

Module II, Day 4 (one full day), includes presentations and in-depth discussions of the content, use, and searching methods associated with the chemical and toxicological databases. These include:

- 1) CHEMLINE - a chemical dictionary file providing Registry Numbers and synonyms for use in conjunction with TOXLINE, RTECS, TDB and MEDLINE.
- 2) TOXLINE - a bibliographical file focusing on the toxicology literature and research projects.

An overview of the interrelationships between the chemical and toxicological files includes brief discussion in RTECS (Registry of Toxic Effects of Chemical Substances) and TDB (Toxicology Data Bank).

Module III, Day 5 (morning only), of the Initial Training covers the scope, content, and mechanics necessary to search the cancer literature found in four MEDLARS databases created by the National Cancer Institute. These include:

- 1) CANCERLIT - a bibliographic file dealing with all aspects of cancer related information;
- 2) CANCERPROJ - a descriptive file of ongoing cancer research projects;
- 3) CLINPROT - protocol descriptions of clinical trials evaluating cancer treatments; and
- 4) PDQ (Protocol Data Query) - a current file of active cancer treatment research protocols.

Enclosed with this article is an application for NLM's Online Training classes. Training is available to any person who is associated with an organization with an existing MEDLARS user identification code, or who has already applied for access to NLM's online system. Module I, the 3-day portion of the Initial class, is required in order to receive an access code and to attend Module II or III. Most searchers will find it convenient and beneficial to attend all Modules for their initial training.

Interested searchers should complete the enclosed application form and must indicate the Modules of the Initial Online Services Training class that will be attended. The form is also used for applying for Advanced Training. Searchers requesting an Advanced class need only check the date of the class they wish to attend. For additional information, please contact the MEDLARS Management Section.

. . . See application, next page

Date: _____

NLM ONLINE TRAINING APPLICATION

TRAINEE: _____
Name/Title Telephone

ORGANIZATION:

Name: _____

Address: _____

City, State, Zip: _____

ONLINE STATUS: _____ New Code _____ Existing Code (Code= _____)

AUTHORIZED BY: _____
Name/Title Telephone / / Date

+++++

TRAINEE INFORMATION

1. Reason for Training: (check one)

_____ Primary Searcher _____ Backup/Secondary Searcher
_____ Replacement for Primary Searcher _____ Other (Specify)

2. Online Training Courses Attended (Include dates and sponsoring organizations):

- a. _____
- b. _____
- c. _____
- d. _____

3. Previous Experience with NLM Online Databases (Specify approximate connect hours used):

_____ MEDLINE _____ Cancer Databases
_____ TOXLINE _____ Others (Specify)

4. Experience with Other Online Systems (Specify approximate connect hours used):

_____ Bibliographic Retrieval Service (BRS)
_____ Systems Development Corporation (ORBIT)
_____ Dialog Retrieval Service
_____ Others (Specify)

+++++

(OVER)

NLM ONLINE SERVICES TRAINING
TENTATIVE
1983 SCHEDULE

JANUARY	10-14	INITIAL	NLM
	19-21	ABBREVIATED INITIAL	UCLA
	24-28	ADVANCED	NLM
	31-FEB 4	INITIAL	UCLA
FEBRUARY	7-11	INITIAL	NLM
	28-MAR 4	ADVANCED	NLM
MARCH	7-11	INITIAL	NLM
	21-25	INITIAL	NLM
APRIL	6-8	ABBREVIATED ADVANCED	RML5 (NLM)
	11-15	INITIAL	NLM
	20-22	ABBREVIATED ADVANCED	RML4 (NLM)
	25-29	ADVANCED	NLM
MAY	11-13	ABBREVIATED ADVANCED	RML3 (NLM)
	16-20	INITIAL	NLM
JUNE	6-10	INITIAL	NLM
	20-24	INITIAL	NLM
JULY	6-8	ABBREVIATED ADVANCED	RML6 (NLM)
	11-15	ADVANCED	NLM
	18-22	INITIAL	NLM
AUGUST	3-5	ABBREVIATED ADVANCED	RML7 (NLM)
	8-12	INITIAL	NLM
	17-19	ABBREVIATED ADVANCED	RML1 (NLM)
	22-26	INITIAL	NLM
SEPTEMBER	12-16	ADVANCED	NLM
	26-30	INITIAL	NLM
OCTOBER	17-21	INITIAL	NLM
	31-NOV 4	ADVANCED	NLM
NOVEMBER	14-18	INITIAL	NLM
	28-30	ABBREVIATED ADVANCED	RML2 (NLM)
DECEMBER	5-9	INITIAL	NLM

This 1983 schedule is tentative pending the award of contracts for regional training sites. At that time, additional Initial classes will be scheduled.

Note, too, that the Abbreviated Advanced classes are scheduled for each of the newly reconfigured RMLs and will be taught by NLM staff.

1982 REVISED EDITION OF CHEMICAL/TOXICOLOGICAL USER-GUIDES AVAILABLE

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

A set of four manuals can be purchased for \$12.00; the order number is PB83-106799. A binder costs \$10.00; the order number is PB83-106849. Individual database manuals are available for \$7.00. The order number for each is as follows:

CHEMLINE	PB83-106807
TOXLINE	PB83-106815
RTECS	PB83-106823
TDB	PB83-106831

The address for NTIS is:

National Technical Information Service
U. S. Department of Commerce
Springfield, VA 22161

703/487-4650 TELEX 89-9405

Copies of the four information sheets (also known as fact sheets) and pocket cards may be obtained upon request from Cynthia Gaines, National Library of Medicine, Specialized Information Services, Bldg. 38A, Rm. 3S308, Bethesda, MD 20209. Telephone: 301/496-1131.

NOTICE TO INTERLIBRARY LOAN LIBRARIANS

Because of the Christmas mail rush, loan of books from the National Library of Medicine will be suspended from December 6, 1982 to January 3, 1983. For books that are due between those dates, the loan period will be extended and books will be due back at the National Library of Medicine no later than January 7, 1983.

Requests for books received during this period will be held until mail service is resumed.

Loans normally supplied in the form of photoduplicates will be sent as usual throughout the period.

We ask that all books now overdue be returned promptly.

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - October 1982
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. 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. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

BEITRAGE ZUR GESUNDHEITSOKONOMIE
 1,1981--
 BLEICHER VERLAG
 GERLINGEN GERMANY, WEST
 BLEICHER VERLAGS-KG, D-7016 GERLINGEN, WEST
 GERMANY
 IN PROCESS
 B03290000

BUTTERWORTHS INTERNATIONAL MEDICAL REVIEWS.
 RHEUMATOLOGY
 1,1982--
 BUTTERWORTH SCIENTIFIC
 LONDON ENGLAND
 IN PROCESS
 B59053500

COMPUTERS IN HEALTHCARE
 SEP/OCT 1982--
 CARDIFF
 CONTINUES COMPUTERS IN HOSPITALS.
 ENGLEWOOD CO UNITED STATES
 CARDIFF PUBLISHING CIRCULATION SERVICE
 CENTER, P.O. BOX 6228, DULUTH MN 55806
 ON ORDER
 C36304000

FUNKTIONELLE BIOLOGIE UND MEDIZIN =
 FUNCTIONAL BIOLOGY AND MEDICINE
 1N1, JUN 1982--
 VERLAG CHEMIE
 WEINHEIM GERMANY, WEST
 IN PROCESS
 F15110000
 \$105.00

INTERNATIONAL CONFERENCE ON SURGERY OF THE
 SHOULDER
 1ST, 1980--
 SPRINGER VERLAG
 NEW YORK UNITED STATES
 W3 IN9143B
 I22470000

JOURNAL OF ENVIRONMENTAL BIOLOGY
 1N1, JAN 1980--
 ACADEMY OF ENVIRONMENTAL BIOLOGY
 MUZAFFARNAGAR INDIA
 IN PROCESS
 J20055000

MEDICAL MICROBIOLOGY
 1, 1982--
 ACADEMIC PRESS
 NEW YORK UNITED STATES
 ON ORDER
 M15870000

MEDIGUIDE TO SKIN CONDITIONS
 1N1, 1982--
 DELLACORTE PUBLICATIONS
 NEW YORK UNITED STATES
 DELLACORTE PUBLICATIONS INC., 767 LEXINGTON
 AVENUE, NEW YORK, NY 10021
 IN PROCESS
 M23638000

NEUROUROLOGY AND URODYNAMICS
 1, 1982--
 ALAN R LISS
 NEW YORK UNITED STATES
 ON ORDER
 N13938000

QUANTITATIVE STRUCTURE-ACTIVITY
 RELATIONSHIPS IN PHARMACOLOGY, CHEMISTRY,
 AND BIOLOGY
 1N1, AUG 1982--
 VERLAG CHEMIE
 WEINHEIM GERMANY, WEST
 IN PROCESS
 Q01030000
 \$168.00

SURVEY OF DRUG RESEARCH IN IMMUNOLOGICAL
 DISEASE
 1, 1982--
 KARGER
 BASEL SWITZERLAND
 S. KARGER AG, P.O. BOX CH-4009, BASEL,
 SWITZERLAND
 ON ORDER
 S49050000

TRANSPLANTATION SERIES
 1, 1981--
 MARCEL DEKKER
 NEW YORK UNITED STATES
 ON ORDER
 T19030000



National Institutes of Health
National Library of Medicine
Bethesda MD 20209

Dear Domestic MEDLARS User:

Effective January 1, 1983 new pricing structures (see below) for domestic users of NLM's CHEMLINE and TOXLINE services will be implemented. The decrease in CHEMLINE royalty charges to CAS (from \$78.97 to \$32.48 per online connect hour) will result from a CHEMLINE content change that will be implemented on January 1, 1983. This file modification will result in fewer CHEMLINE synonyms and will be discussed in detail in the December issue of the NLM Technical Bulletin. The increase in TOXLINE charges for online connect time and offline prints is necessary to recover the increased royalty payments to the Chemical Abstracts Service (CAS) and the BioSciences Information Service (BIOSIS).

The new online hourly rates, page charges and profile execution (SDI) charges will be as follows:

	Hourly Computer Connect Time		<u>Changes</u>
	Non-Prime	Prime	
TOXLINE	\$48 (\$15*)	\$55 (\$22*)	\$3.00 increase
TOXBACK74	\$48 (\$15*)	\$55 (\$22*)	\$3.00 increase
TOXBACK65	---	---	-----
CHEMLINE	\$47 (\$15*)	\$54 (\$22*)	\$47.00 decrease

	Offline <u>Page Charge</u>	<u>Changes</u>
TOXLINE	\$0.41 (\$0.18*)	\$0.03 increase
TOXBACK74	\$0.41 (\$0.18*)	\$0.03 increase
TOXBACK65	\$0.41 (\$0.18*)	\$0.03 increase
CHEMLINE	\$0.41 (\$0.18*)	\$0.07 decrease

	Profile <u>Execution Charges</u>	<u>Change</u>
TOXLINE	\$2.00 (\$1.00*)	No change

* NLM portion of charge

2.

The profile execution charge (\$2.00 per profile per execution) applies to all SDI searches conducted against TOXLINE.

As agreed upon in our Memorandum of Understanding, rate changes due to changes in royalties may be passed on to the using organization without the normal 90 days' notice. However, we are providing as much advance notice as possible to allow your organization to make appropriate plans.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Henry M. Kissman".

Henry M. Kissman, Ph.D.
Associate Director
Specialized Information Services

FINDING SEARCH TERMS FOR.nlm DATABASES

<u>DATABASE</u>	<u>VOCABULARY</u>
AVLINE	MeSH
BIOETHICS	MeSH; BIOETHICS Thesaurus ¹
CANCERLIT	MeSH (1980 forward)
CANCERPROJ	CANCERPROJ Index Terms ²
CATLINE	MeSH
CHEMLINE	--
CLINPROT	CLINPROT Index Terms ³
EPILEPSY	Classification Codes (see PART 19)
Health Planning & Administration	MeSH
HISTLINE	HISTLINE Keywords ⁴
MEDLINE (includes SDILINE and all MEDLINE backfiles)	MeSH
Name Authority File	--
POPLINE	MeSH; POPLINE Thesaurus ⁵
RTECS	RTECS Index Strings (see PART 14)
SERLINE	MeSH
Toxicology Data Bank	TDB Index Strings (see PART 15)
TOXLINE (includes backfiles)	Some Keywords (see PART 12)

¹BIOETHICS Thesaurus available from the Kennedy Institute of Ethics, Georgetown University, Washington, DC 20057.

²CANCERPROJ Index Terms available from MEDLARS Management Section.

³CLINPROT Index Terms available from MEDLARS Management Section.

⁴HISTLINE Keywords appear as Appendices to PART 22 of this Manual. Guide to Keywords in the Structured HISTLINE Vocabulary, which offers scope notes and cross references to the keywords, is available from MEDLARS Management Section.

⁵POPLINE Thesaurus is available from the Johns Hopkins University Population Information Program, or the Columbia University Center for Population and Family Health Library/Information Program. (see PART 24)

2.5.1 COMBINING SEARCH TERMS

There are three logical operators that can be used to combine search terms (or their retrieval sets): AND, OR, and AND NOT.

2.5.1.1 AND

The AND logical operator is used to create retrieval sets in which each citation retrieved contains each search term. For example,

LIVER NEOPLASMS AND DOGS AND HEPATOMA

creates a retrieval set in which each citation contains each of the three search terms.

2.5.1.2 OR

The OR logical operator is used to create a retrieval set in which each citation contains at least one of the search terms used, or more than one. For example,

PRISONS OR PRISONERS

will create a retrieval set in which each citation contains at least one of these two search terms, and possibly both.

2.5.1.3 AND NOT

The AND NOT logical operator creates a retrieval set from which citations containing the term preceded by AND NOT have been excluded. For example,

BRAIN NEOPLASMS AND HUMAN AND NOT ADULT

creates a set from which any citation containing the term ADULT has been excluded.

2.6 PROGRAM RESPONSES TO SEARCH TERMS

In response to a search statement, the program will respond with one of these messages:

SS (#) PSTG (a number)	Number of citations retrieved
NP (the search term)	No postings for that term in this database
*NONE	No one citations fulfill the requirements of the AND operator

2.7 STRINGSEARCH

Sometimes it is necessary to search for items that cannot be retrieved directly, and so STRINGSEARCH must be used. First limit the retrieval as much as possible, (usually through Text Word searching), then perform the stringsearch.

When searching online, it may be more efficient to stringsearch for highly-posted items if the retrieval set is smaller than 300. However, do not stringsearch for items that could be searched directly in an OFFSEARCH or STORESEARCH.

4. When the online signal light comes on, the network will type

PLEASE TYPE YOUR TERMINAL IDENTIFIER:*

Type in the correct letter from the list on the next page and DO NOT PRESS THE CARRIAGE RETURN KEY. The network will proceed to the next line and type

PLEASE LOG IN:

5. Type NLM. If your terminal is set at half duplex, hold down the CONTROL key and type a letter H before typing the name of the computer.

The network will type

PASSWORD

and some disguising characters.

6. Type the three-letter network password over the marks (the letters won't print out at your terminal). The network now types semicolon (;) and the user types

/LOGIN

7. The computer responds

PLEASE ENTER YOUR USERID/PASSWORD OR LOGON
#####

Type your userID code/password over the disguising marks. The computer responds with a greeting and the time of day.

*If you are using a 120 cps terminal with a 30 cps telephone number, this line will be nonsense characters. Just type the terminal identifier.

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LIST OF
TYMNET TERMINAL IDENTIFIERS

<u>TERMINAL</u>	<u>ID</u>	<u>TERMINAL</u>	<u>ID</u>
ADDS		IBM	
580, 620, 680, 880, 980	A	2741	P (CR)
Anderson Jacobson		Interdata	
330	(CR)	Carousel 300	E
830, 832	A	Incoterm	
630	E	SPD 10/20, 20/20, 900	A
860	A	Infoton	
Ann Arbor Terminals		Vistar	A
Design III, 200	A	ITT	
Beehive Medical Electronics		3501 Asciscope	A
Mini Bee 1, 2, 4	A	Lear Siegler	
Super Bee 2, 3	A	7700, ADM-1, ADM-2,	
I-211, M-501, R-211	A	ADM-3	A
Bell System		LogAbax Informatique	
Dataspeed 40/2		LX 180	I
KD	A	LX 1010#	A
KDP	G	MI ²	
Computer Devices		2400#	I
1030	E	Megadata	A
1132, 1201, 1202, 1203		Memorex	
1204, 1205, 1206	A	1240	G
CompuTek		NCR	
200, 300	A	260	E
Conrac		796	A
401, 480	A	Omron	
Control Data		8525	A
713	A	Ontel	
Computer Transceiver Systems		4000	A
Execuport	E	Research	
DEC		Teleray 3300, 3311, 3712	A
GT40, LA34, LA36, LA38,		Raytheon	
LA120, #LS120, #VT05,		PTS-100	A
VT50, VT100, VT132	A	Singer	
Datamedia		30	E
1500, 2000, 2100, 2500	A	Scientific Measurement	
Datapoint		Systems	
1100, 3000, 3300	A	1440	A
Delta Data		Tally	
5000, 5100, 5200	A	1612#	A
Digi-Log		Tec	
33, 209, 300	A	400 Series, 1440	A
General Electric		Tektronix	
Terminet		4012, 4013, 4014, 4023,	
300, 1200	G	4025	A
Gen-Com		Teletype	
300	A	33, 35	D
Hazeltine		38	B
1200, 2000	A	43	A
Hewlett-Packard		Texas Instruments	
2615, 2616, 262X Series		720, 725, 733, 735	E
263X Series, 264X Series	A	743, 745, 763, 765, 771, #	
Hydra		820	A
Model B	I		

- HOST NOT AVAILABLE - This message may mean: (1) the
THROUGH NET TYMNET node in the particular
city is not operating, (2) an
invalid host computer has been
requested (perhaps mistyped), or
(3) a new Supervisor (the computer
which routes users over the net-
work to the host computers) is
taking over the network and has
not yet picked up that host. Try
again in a few minutes.
- DROPPED BY HOST - The user has logged off and/or has
SYSTEM been disconnected. If the session
is finished, hang up; if not, try
again.
- HOST NOT - Either the link between the TYMNET node
RESPONDING and the computer is temporarily lost or the
computer is not responding properly to the
request for a connection.
- TRY AGAIN IN - A new Supervisor (the computer which routes
2 MINUTES users over the network to the host com-
puters) is taking over the network. Try
again in a few minutes.
- SYSTEM ERROR ON - The host computer is not responding.
PORT # Try again in a few minutes.

If several consecutive error messages are generated, or login lasts longer than 90 seconds, the network will give the message:

PLEASE SEE YOUR REPRESENTATIVE
IF YOU ARE HAVING TROUBLE....

and disconnect itself from the terminal. Please call the MEDLARS Management Section at NLM (301/496-6193 or 800/638-8480) if you are unable to enter the system and do not understand why.

In addition to these messages from the TYMNET network, the user might receive either of the messages described in PART 3.5.1.2 from the computer.

3.5.2.3 TYMNET LOGOFF

Type the STOP or STOP Y command and the computer will respond with the elapsed time, the time of day, and GOOD-BYE! The network now types

DROPPED BY HOST SYSTEM:
PLEASE LOG IN:

at which point you may either type in the name of a host computer (such as NLM) or hang up your telephone.

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3.5.3 TELENET ACCESS

With this procedure the user logs in through the TELENET telecommunications network.

3.5.3.1 TELENET LOGIN

Use this procedure for logging in through TELENET:

1. Turn power switch on and set terminal for online, remote, or communicating mode. Note transmission speed. Set duplex to full.
2. Using the telephone number list provided by NLM, select a number appropriate for TELENET, your location and speed of transmission, and dial it.
3. After receiving the high-pitched tone, connect the telephone to the terminal.
4. When the online signal light comes on, press the carriage return twice. (If you have set the terminal to half duplex, press the carriage return and a semicolon and another carriage return.)
5. The network will identify itself and the location of the node

```
TELENET                (If you are using a toll-free "800" number,  
202 DL9                TELENET will ask you to type your  
                        telephone area code at this point)  
TERMINAL=
```

6. In response to this message, type the two character identifier from the list on the next page. TELENET will respond with an @ sign.
7. Type in C 301 20 to access the NLM computer
8. TELENET will respond 301 20 CONNECTED
9. Type /LOGIN and the computer will respond

```
PLEASE ENTER USERID CODE/PASSWORD OR LOGON  
#####
```

Type your userid code/password over the disguising marks. The computer will respond with a greeting and the time of day.

3.5.3.3 TELENET LOGOFF

Type the STOP or STOP Y command and the computer will respond with the elapsed time and the time of day, and GOOD-BYE! The network now types

301 20 DISCONNECTED

at which point you may either type in the code for a computer to which you wish to be connected, or hang up your telephone.

3.5.3.4 OTHER TYPES OF LOGOFF

When there has been no interaction between the terminal and the computer for 15 minutes, the computer will automatically disconnect the user and release that ID code. The user is billed only for connect time used BEFORE the interaction ceased, not for the last 15 minutes.

If the "break" key is entered while on NLM, when using one of the telecommunications networks, the system may not release the user's ID code for 15 minutes, sending the message:

USERID ALREADY IN USE

when the user attempts to login again. In the same manner, when the telecommunications network or the host computer accidentally disconnects the user, the same

message may be received for 15 minutes following the disconnection. The user is not charged for the intervening minutes unless he is able to re-access the system and his search during this 15 minute period. It is because of the USER ID ALREADY IN USE message and the 15 minute delay that users are urged to wait for the GOODBYE! message when logging off. The GOODBYE! verifies that the host system has released the user's ID code.

On some occasions the host computer may send the message

```
ELHILL 3 IS ABNORMALLY TERMINATING  
PLEASE DO NOT HANG UP
```

This means that the system will be in "suspended animation" for a short period, and that hanging up or otherwise breaking the connection between the terminal and the host may cause the user's ID code to be held in the message handling portion of the system. If this occurs, the code cannot be released and will remain in the system until it goes down, either scheduled or unscheduled.

At times, the host system may offer no response to a user's input, although the online carrier detect light remains on. A carriage return should be used to try to elicit a response. If this fails to work, the user should wait for a few minutes, then hang up. The user should then attempt to login again. Online searches done during the interrupted session will be lost but offline prints or offsearches completed will be processed.

3.6 BROADCAST MESSAGES FROM NLM

When logging in to the NLM computer, users may receive short messages of immediate and general interest as part of the greeting. Broadcast messages are not received by users already logged on when the message was input. Only users logging in after the message was input will receive the message.

PART 4
ELHILL SEARCHING

4.1 INTRODUCTION

The programs that control the online search portion of the MEDLARS system are referred to as ELHILL, a contraction of the name of Senator Lister Hill. The sections below describe in detail the ELHILL search capabilities available to users of the National Library of Medicine databases controlled by this software. The examples given are largely from MEDLINE, but they are intended to illustrate general capabilities used in searching all the databases.

4.2 DATABASES

The following databases are available through the National Library of Medicine online network and are searchable with the ELHILL software:

FILE NAME	APPROXIMATE SIZE (nearest thousand)	COVERAGE	
AVLINE	11,000		
BIOETHICS	13,000	1973-present	
CANCERLIT	297,000	1963-present	
CANCERPROJ	21,000	1978-present	
CATLINE	397,000	1963-present	
CHEMLINE	525,000		
CLINPROT	3,000		
HEALTH	199,000	1975-present	
HISTLINE	50,000	1970-present	
MEDLINE	505,000	1980-present	
MED66	955,000	1966-1970	
MED71	884,500	1971-1974	
MED75	643,000	1975-1976	
MED77	775,500	1977-1979	
MESH VOCAB	43,000		
NAME AUTH	128,000		
PDQ	700		
POPLINE	100,000	1970-present	
RTECS	51,000	1979 edition	
SDILINE	25,000	current month	
SERLINE	39,000		
TDB	3,500		
TOXLINE	528,000	1979-present*	
TOXBACK65	387,000	pre-1965-1973*	(searchable only
TOXBACK74	475,000	1974-1978*	through OFFSEARCH)

*certain TOXLINE subfiles are entirely available in either TOXLINE or one of its backfiles regardless of dates of coverage.

4.3 COMMUNICATING WITH THE PROGRAMS

The computer system only recognizes user input that follows a USER: cue and is followed by a carriage return. Three types of input are commonly entered by a user:

- 1) Search Statements - searchable items from the Index file, entered alone or in combination with the logical operators AND, OR, and AND NOT.
- 2) Commands - instructions to the program requesting operations other than searching, such as a display of citations, changing data files, etc.
- 3) Replies to Questions - users' answers to questions posed by the program; choices of replies are always offered, and answering at all may be avoided by entering any command.

The program communicates with the user only after the PROG: cue and uses three types of messages:

- 1) Program Messages - these guide the flow of user/program interaction, giving the user information or pointing out limitations in the program.
- 2) Response to Search Statements and Commands - a display of citations, manipulation of the user's workspace, etc.
- 3) Questions - information needed by the program in order to continue the interaction; the users' replies confirm or clarify commands.

4.4 ENTERING SEARCH TERMS

A search consists of terms used to define an area of interest and the strategy used to combine those terms to select a group of logically related records. The following will be concerned with the principles of searching without reference to any specific NLM database.

A search may consist of a single term from any searchable category of the unit records or of multiple terms combined by means of logical operators. Search terms are entered, without enclosing punctuation, after the cue:

```
SS #/C?  
USER:
```

and terminated with a carriage return. Only search statements with non-zero retrieval are assigned search statement numbers.

A search term is an element of a unit record that has been placed in the Index file of the database being searched. For a detailed list of searchable elements in each file, consult the section of this Manual describing the particular file.

4.4.1 INPUT ERRORS

When a typing or transmission error occurs, there are two ways in which a correction may be made:

- 1) Individual Character Deletion - may be done with the backward arrow, backward slash or the underscore, depending upon the type of terminal being used. Each of these characters will "wipe out" the character immediately preceding it. For example, if the user wished to enter the term LIBRARY but typed LIBRR the backward arrow or slash or underscore would be typed immediately following the erroneous R and the user continues to type the word:

PART 5
SPECIAL PROCEDURES:
OFFSEARCH, STORESEARCH, SAVESEARCH, SORT

5.1 OFFSEARCH

5.1.1 OFFSEARCH INTRODUCTION

The OFFSEARCH procedure enables a searcher to type in search terms that will be kept by the computer for processing overnight. It has several functions:

- A. Searching files that are not available online (i.e., backfiles)
- B. Executing STORESEARCHes
- C. Searching up to six databases in one procedure

There are three parts to the OFFSEARCH procedure: 1) search information, 2) search terms, and 3) mailing information.

5.1.2 OFFSEARCH PROCEDURE

The user begins by typing the word OFFSEARCH in response to a SS #/C? cue. The program responds by assigning a task number to the procedure:

```
SS 1/C?  
USER:  
OFFSEARCH  
PROG:  
TASKNAME=S6174536
```

The task number identifies this OFFSEARCH uniquely through the first digit, which corresponds to the last digit of the day of the month (e.g., the number above represents either the 6th, 16th, or 26th of the month), and the next six digits, which indicate the time of day the command was issued based on a 24 hour clock. Thus, 174536 is 5:45 and 36 seconds, PM.

Because all records pertaining to OFFSEARCHes are kept in order of task number for a given day, it is important to keep a record of the task number for each OFFSEARCH until the resulting printout has been received. All inquiries about a particular OFFSEARCH should include the task number, user ID code, which computer (i.e., NLM or SUNY), and, if possible, the date it was entered.

5.1.2.1 SEARCH INFORMATION DIALOGUE

This portion of the procedure consists of a dialogue between the searcher and the program. The program asks four questions: ONLINE OUTPUT, FILES, PRINTSPECS, and OK?

ONLINE OUTPUT: -- NPS/PSTG/NONE?

The question ONLINE OUTPUT offers the searcher three options for response: NPS/PSTG/NONE. The searcher types in one of these items to answer the question. If the searcher types NPS, the program will check the Index of the database to which the searcher was connected when the OFFSEARCH was begun, and give a NP (no postings) message if a search term (typed in during the search portion of the OFFSEARCH) would have received that message during an "ordinary" search of that database. The citations themselves are not being retrieved.

If the searcher types PSTG, the program will actually perform the search interactively while the terms are being typed in, and will respond in the same way as it would during an "ordinary" search. Again, this search is performed on the database to which the searcher was connected when the OFFSEARCH was begun. The citations retrieved are available for printing (online only - NO offline print command may be used in an OFFSEARCH) just as in an "ordinary" search.

The NONE option offers no feedback whatever to the searcher, and for this reason is not recommended for most searches.

Note: If a STORESEARCH is being used as part of the OFFSEARCH strategy, the NPS option must be selected.

FILES?

The next question the searcher is asked is FILES? The searcher may type in the names of up to six databases; the computer will perform the search strategy of this OFFSEARCH against all requested databases. A separate printout, with unique cover pages, will contain retrieval from each database. Abbreviated forms are available for the names of the MEDLINE and TOXLINE backfiles:

<u>File</u>	<u>Abbreviation</u>
MED66	B66
MED71	B71
MED75	B75
MED77	B77
TOXBACK65	TOX65
TOXBACK74	TOX74

If more than one database name is entered, separate them from each other with a comma and space:

```
FILES?  
USER:  
MEDLINE, B77, B75
```

PRINTSPECS?

The program next asks the searcher what PRINTSPECS (print specifications) are required. That is, which data elements should be printed out for each citation retrieved. Any standardized format (SD, FU, DL) may be typed here, or any combination of data elements (e.g., AU, TI, SO, MH,.LA); the INCLUDE and EXCLUDE instructions may also be used. As with any series of items, separate each from the next with a comma and space:

```
PRINTSPECS?  
USER:  
AU, TI, AB, MH
```

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5.1.4 PRESPECIFICATION AND ERROR CORRECTION IN OFFSEARCH

The capability exists for searchers to prespecify or correct information supplied during the two dialogue portions of the OFFSEARCH procedure, as well as in offline prints (see PART 4.9.16). The following is a list of keywords that can be used to change or pre-specify the values -

NAME	Other options:
ADDRESS	
CITSTAZIP (for CITY, STATE, and ZIP CODE)	MAIL
REQUESTER	LIMIT
TITLE	OFFOUTS
ONOUTS (for ONLINE OUTPUT)	SORT
FILES	
PRINTSPECS	
SSNOS/OVRIDES	

"Prespecification" means that the searcher is answering a question that has not been asked yet by the program. Each keyword must be followed by a space, an equals (=) sign, another space, and the new value. More than one item may be prespecified as long as a comma and space separate each keyword = value pair, but the pairs cannot be continued onto a second line. For example:

```
PROG:
ONLINE OUTPUT: NPS/PSTG/NONE?
USER:
NPS, FILES = MEDLINE, B77, B79, PRINTSPECS = DL
```

```
PROG:
PRINT ELEMENTS, IF ANY, WILL BE EVALUATED AGAINST
THE MEDLINE FILE.
OK? (Y/N/C/ADDRESS)
```

In addition to their use in prespecification, the keywords may be used to correct the searcher's responses after they have been entered:

```
FILES?
USER:
TOXLINE, CANCERLIT
```

```
PROG:
PRINTSPECS?
USER:
FILES = TOXLINE, TOX65, TOX74, PRINTSPECS = FU
```

There is also a special keyword, that does not correspond to questions asked by the program, but rather to another option the searcher may choose. The entry MAIL = PROMPT may be used to indicate that the printout should not be sent to the searcher's stored address, but to another that the program will now request, item by item:

USER:
MAIL = PROMPT

PROG:
NAME?

As with the other keywords, this one may be used during either of the two dialogue portions of the OFFSEARCH procedure.

5.1.4.1 OBTAINING BACKFILE POSTINGS ONLY

The TOXBACK65 database is not available for online searching; it can only be searched as part of an OFFSEARCH procedure. If the searcher wishes to know how many postings a particular search strategy will retrieve in TOXBACK65, but does not require a printout of the citations themselves, a special Keyword is used. In response to the PRINTSPECS? question of the OFFSEARCH procedure, the searcher types OFFOUTS = PSTG rather than print specifications. The next business day, the searcher should call the MEDLARS Management Service Desk (301/496-6193 or 800/638-8480) to request a report of the postings retrieved. The OFFSEARCH date and task number must be provided by the searcher in order for service desk staff to locate the postings information.

The following sample OFFSEARCH demonstrates several prespecification or correction statements.

PART 7
MEDLINE

7.1 INTRODUCTION

The MEDLINE file contains all citations published in Index Medicus, plus the "special list" journals, that were entered into the database during the current and three immediately preceding years: for example, the 1981 MEDLINE file contains citations entered during 1981, 1980, and 1979. Older citations reside in the MEDLINE backfiles. In December of each year, the oldest year of MEDLINE citations is "retired" to a backfile: for example, in December of 1980 all citations entered into the file during 1978 were put into the MED77 file, along with items entered into the MEDLINE file after December 31, 1978 but having a publication date during 1978. The names, number of citations, and years of coverage of the MEDLINE backfiles are:

MED66	1966-70	955,000
MED71	1971-74	884,500
MED75	1975-76	643,000
MED77	1977-79	775,500

MEDLINE is updated with about 20,000 citations each month. The monthly group of new citations is simultaneously put into MEDLINE and into another file known as SDILINE. The SDILINE file is offered as a separate database to allow easier access to only the new citations, eliminating the need to limit a large retrieval from MEDLINE to one update month.

The total number of citations in MEDLINE ranges from 380,000 to 630,000; articles are indexed from about 3,000 biomedical journals published in the United States and about 70 foreign countries. Some citations to chapters or articles from monographs are also found in MEDLINE.

7.2 ENTERING THE MEDLINE FILE

Users of the online NLM network are automatically placed in MEDLINE when logging in. When connected to another database, the user may access MEDLINE, SDILINE, and all backfiles using the appropriate FILE command.

7.3 MEDLINE UNIT RECORD

The MEDLINE unit record is the computer-stored information representing one journal article or monograph portion. The table below lists the data elements, with their two-letter abbreviations, that may be found in MEDLINE or SDILINE citations.

The MEDLINE Unit Record

Category Qualifier	Element Name	Search Status	PRINT	PRINT FULL	PRINT DETAILED	PRINT AR
AA	Abstract Author	*			X	
AB	Abstract	TW			X	X
+AD	Address				X	
AU	Author	*	X	X	X	X
CA	Call Number	*		X	X	
+CY	Country	*			X	
DA	Date of Entry	*,R			X	
DP	Date of Publication	*			X	
EA	English Abstract Indicator				X	
EM	Entry Month	*			X	
ID	ID Number	*			X	
IP	Issue/Part/Supplement				X	
IS	ISSN	*			X	
JC	Journal Title Code	*			X	
LA	Language	*		X	X	
LI	Special List Indicator	*			X	
LR	Last Revision Date	*,R			X	
MH	MeSH Headings	*		X	X	
MN	MeSH Tree Number	*				
NI	No-Author Indicator				X	
NM	Name of Substance	*,NF		X	X	
PG	Pagination				X	
PS	Personal Name as Subject	*			X	
RF	Number of References				X	
RN	CAS Registry Number	*		X	X	
RO	Record Originator				X	
SB	Journal Subset	*			X	
SH	Subheadings	*		X	X	
SO	Source		X	X	X	X
TA	Title Abbreviation	*			X	
TI	Title	TW	X	X	X	X
TT	Transliterated/Vernacular Title				X	
UI	Unique Identifier	*,R			X	
VI	Volume Issue				X	
YR	Year	*				
ZN	MeSH Z Tree Number	*			X	

* = Directly searchable
 R = Rangeable
 TW = Text Word searchable
 NF = Name Fragment searchable
 + = SDILINE only

The MED75 backfile contains citations entered into the database between December 5, 1974 and November 3, 1976. In order to search for this concept in MED75 both terms would have to be used. However, the searcher would use the range capability (PART 4.6.4) to divide the search into two parts: the first year, in which PLANTS was the only term available, and the second year, in which PLANTS, TOXIC was available. The strategy would be as follows: the first search statement consists of the new term -

SS 1/C?
USER:
PLANTS, TOXIC

No range operation is necessary because all possible retrieval is wanted - any item that contains this heading will be retrieved. The next search statement consists of the broader term and a ranging operation to limit the retrieval to those items indexed (and entered into the database) before the more specific term became available -

SS 2/C?
USER:
PLANTS AND LESS THAN 751120

In this way, the amount of material that must be examined for false drops is minimized.

7.4.2 TEXT WORD SEARCHING

Significant words from the Title and Abstract fields are available for Text Word searching in MEDLINE. Text Word Term Generation and Searching are discussed fully in PART 4 of this Manual. Reminder: Text Words must be qualified with (TW) in MEDLINE.

If a user searching MEDLINE uses the ALL instruction, e.g., ALL LIVER, the program searches the Index to MEDLINE for that exact term. All occurrences, Text Word, MeSH Heading, Title Abbreviation, Pre-exploded (PX) etc. are retrieved. However, if the term is a "see" reference or an Entry Version, which requires mapping by the MeSH Vocabulary file, the term is not in the Index. Thus, it cannot be retrieved, and the postings may not represent the entire set of possible citations. For this reason, users are advised to use only valid print versions of MeSH descriptors with the ALL instruction. For example, entering the term CANCER will retrieve citations with the descriptor NEOPLASMS, but entering ALL CANCER will retrieve only citations containing CANCER as a Text Word or Title Abbreviation; citations indexed to the MeSH term NEOPLASMS will not be retrieved.

7.4.3 USEFULNESS OF SAVE/SAVESEARCH

Because SDILINE, MEDLINE, the MEDLINE backfiles, and the Health Planning & Administration databases all consist of MEDLINE-like citations (and thus are called "similar" files) that are searched using the MeSH vocabulary, the SAVE/SAVESEARCH procedure is especially suited to these databases. A searcher could log in to SDILINE and save a search formulation (SDILINE because it is the smallest and uses the least connect time), then use the FILE command to enter MEDLINE, the Health file, and the MEDLINE backfiles. In each database the searcher would call up the saved search by name and get immediate retrieval that could be examined for relevance and printed either online or offline. For details about saving and using saved searches, see PART 5.

7.5 MEDLINE PRINT COMMANDS

There are four standard PRINT commands in MEDLINE: PRINT, PRINT FULL, PRINT DETAILED, and PRINT AR. The Unit Record table shows which fields are displayed with each. Tailored PRINT commands, those in which the searcher selects the elements to be printed out, may be constructed according to the principles set forth in Section 4.9.16.4.

PART 21 BIOETHICS

21.1 INTRODUCTION

21.1.1 SCOPE AND CONTENT OF BIOETHICS

21.2 ENTERING THE BIOETHICS FILE

21.3 BIOETHICS UNIT RECORD

- 21.3.1 ABSTRACT AUTHOR (AA)
- 21.3.2 ABSTRACT (AB)
- 21.3.3 AUTHORSHIP STATEMENT (AS)
- 21.3.4 AUTHOR (AU)
- 21.3.5 ISBN (BN)
- 21.3.6 CORPORATE NAME (CN)
- 21.3.7 COLLATION (CO)
- 21.3.8 DATE OF PUBLICATION (DP)
- 21.3.9 ENTRY MONTH (EM)
- 21.3.10 GENERAL NOTE (GN)
- 21.3.11 ISSN (IS)
- 21.3.12 KEYWORDS (KW)
- 21.3.13 LANGUAGE (LA)
- 21.3.14 MeSH HEADINGS (MH)
- 21.3.15 MONOGRAPHIC INFORMATION (MI)
- 21.3.16 MeSH TREE NUMBER (MN)
- 21.3.17 PAGINATION (PG)
- 21.3.18 CITY OF PUBLICATION (PL)
- 21.3.19 PUBLICATION TYPE (PT)
- 21.3.20 PUBLISHER (PU)
- 21.3.21 NUMBER OF REFERENCES (RF)
- 21.3.22 SERIES TITLE (SE)
- 21.3.23 SOURCE (SO)
- 21.3.24 TITLE (TI)
- 21.3.25 TITLE OF JOURNAL (TJ)
- 21.3.26 UNIQUE IDENTIFIER (UI)
- 21.3.27 VOLUME/ISSUE (VI)
- 21.3.28 YEAR (YR)

21.4 SPECIAL FEATURES OF SEARCHING BIOETHICS

- 21.4.1 CONTROLLED VOCABULARY SEARCHING IN BIOETHICS
- 21.4.2 TEXT WORD SEARCHING IN BIOETHICS

21.5 BIOETHICS PRINT COMMANDS

21.6 APPENDIX A: SOURCES SELECTIVELY MONITORED IN THE PREPARATION OF BIOETHICS

21.7 APPENDIX B: BIOETHICS KEYWORDS, WITH 1982 MeSH HEADING MAPS

PART 21
BIOETHICS

21.1 INTRODUCTION

The BIOETHICS file was developed at the Kennedy Institute of Ethics, Georgetown University, with the aid of grants from the Extramural Programs of the National Library of Medicine and from the Joseph P. Kennedy, Jr. Foundation. As of November 1982, it contains over 13,000 citations, dating from 1973.

The citations in BIOETHICS are also available in book form in a series of annual volumes, the Bibliography of Bioethics, published since 1981 (Volume 7) by The Free Press, a division of Macmillan Publishing Company, 866 Third Avenue, New York, NY 10022. The first six volumes of the Bibliography were published by Gale Research Company, Book Tower, Detroit, Michigan 48226.

21.1.1 SCOPE AND CONTENT OF BIOETHICS

Bioethics is the study of value questions arising in health care or biomedical research. BIOETHICS includes citations to materials which discuss the ethical and public policy aspects of the following topics and subtopics:

BIOETHICS, IN GENERAL
CODES OF PROFESSIONAL ETHICS
PROFESSIONAL PATIENT RELATIONSHIP
 Confidentiality
 Disclosure (Truth-telling)
 Informed Consent
 Treatment Refusal
HEALTH CARE
 Cost of Health Care
 Immunization
 Patients' Rights
 Resource Allocation
CONTRACEPTION
 Availability to Minors
 Sterilization
ABORTION
POPULATION
 Population Policy
 Right to Reproduce
REPRODUCTIVE TECHNOLOGIES
 Artificial Insemination
 Cloning
 Embryo Transfer
 In Vitro Fertilization
GENETIC INTERVENTION
 Eugenics
 Gene Therapy

 Genetic Counseling
 Genetic Screening
 Recombinant DNA Research
SOCIOBIOLOGY
MENTAL HEALTH THERAPIES
 Behavior Control
 Electroconvulsive Therapy
 Involuntary Commitment
 Psychoactive Drugs
 Psychosurgery
 Right to Treatment
HUMAN EXPERIMENTATION
 Behavioral Research
 Biomedical Research
 Informed Consent
 Regulation
 Research on Special Populations
ARTIFICIAL AND TRANSPLANTED
ORGANS OR TISSUES
DEATH AND DYING
 Allowing to Die
 Determination of Death
 Euthanasia
 Terminal Care
INTERNATIONAL DIMENSIONS OF
BIOLOGY AND MEDICINE

The BIOETHICS file incorporates a variety of document types, including analytics (chapters in monographs), audiovisuals, bills, court decisions, laws, journal and newspaper articles, monographs, and unpublished documents. Materials are selected from the literature of medicine, nursing, the biological sciences, philosophy, religion, law, and the behavioral sciences, as well as

from the popular media. The database is comprehensive for English-language materials published from 1973 to the present. Beginning with citations added to the database in November 1982, abstracts are included for articles from selected core journals.

A cross-disciplinary monitoring system is employed to identify materials to be indexed for BIOETHICS. Over sixty indexes and other reference tools and over ninety journals and newspapers are systematically reviewed for pertinent citations. Three online databases are also regularly searched. See Section 21.6 for a list of the sources monitored.

Information on data elements, search strategy, or system and communications problems may be obtained by contacting the MEDLARS Management Section, National Library of Medicine, 8600 Rockville Pike, Bethesda, Maryland 20209, Phone: 301/496-6193 or toll free 800/638-8480. Inquiries concerning the content of the file or its indexing should be addressed to the Information Retrieval Project, Center for Bioethics, Kennedy Institute of Ethics, Georgetown University, Washington, DC 20057, Phone: 202/625-2371.

21.2 ENTERING THE BIOETHICS FILE

To access BIOETHICS, login to ELHILL at NLM in the usual way and enter the command FILE BIOETHICS after any USER: cue.

21.3 BIOETHICS UNIT RECORD

The BIOETHICS unit record is the computer-stored information representing one analytic (chapter in a monograph), audiovisual, bill, court decision, journal or newspaper article, law, monograph, or unpublished document. The table below lists the data elements that comprise the unit record, together with their two-letter category qualifiers, search status and print status. Refer to the section on BIOETHICS PRINT COMMANDS (21.5) to see which publication types contain which data elements.

The BIOETHICS Unit Record

Category Qualifier	Element Name	Search Status					
AA	ABSTRACT AUTHOR	*					X
AB	ABSTRACT	TW					X X
AS	AUTHORSHIP STATEMENT		X	X			X X X
AU	AUTHOR (PERSONAL)	*	X	X			X X X
BN	ISBN	*					X
CN	CORPORATE NAME (AS AUTHOR)	*,TW	X	X			X X X
CO	COLLATION						X
DP	DATE OF PUBLICATION	*					X
EM	ENTRY MONTH	*,R					X
GN	GENERAL NOTE	TW		X			X X
IS	ISSN	*					X
KW	KEYWORDS	*,TW					X X
LA	LANGUAGE	*					X

PART 21
BIOETHICS

21.1 INTRODUCTION

The BIOETHICS file was developed at the Kennedy Institute of Ethics, Georgetown University, with the aid of grants from the Extramural Programs of the National Library of Medicine and from the Joseph P. Kennedy, Jr. Foundation. As of March 1981, it contains 11,000 citations, dating from 1973.

The citations in BIOETHICS are also available in book form in a series of annual volumes, the Bibliography of Bioethics. To date, six volumes have been published by Gale Research Company, Book Tower, Detroit, Michigan 48226. Beginning in 1981, the Bibliography will be published by Free Press-Macmillan, 866 Third Avenue, New York, NY 10022.

21.1.1 SCOPE AND CONTENT OF BIOETHICS

Bioethics is the study of value questions arising in health care or biomedical research. BIOETHICS includes citations to materials which discuss the ethical and public policy aspects of the following topics and subtopics:

BIOETHICS, IN GENERAL	MENTAL HEALTH THERAPIES
HISTORY OF MEDICAL ETHICS	Psychotherapy
CODES OF PROFESSIONAL ETHICS	Operant Conditioning
PHYSICIAN PATIENT RELATIONSHIP	Psychoactive Drugs
Disclosure	Electrical Stimulation of the Brain
Informed Consent	Psychosurgery
Treatment Refusal	Involuntary Commitment
Confidentiality	Right to Treatment
Malpractice	HUMAN EXPERIMENTATION
HEALTH CARE	Informed Consent
Patients' Rights	Behavioral Research
Cost of Health Care	Research on Children
Resource Allocation	Research on Pregnant Women
CONTRACEPTION	Research on Fetuses
Availability of Contraceptives	Research on Prisoners
to Minors	Research on the Mentally Handicapped
Involuntary Sterilization	Social Control
ABORTION	ARTIFICIAL AND TRANSPLANTED
POPULATION	ORGANS OR TISSUES
Right to Reproduce	Organ or Tissue Donation
Population Policy	Heart
REPRODUCTIVE TECHNOLOGIES	Kidney
Artificial Insemination	Blood
Sex Predetermination	Other Organs or Tissues
In Vitro Fertilization	DEATH AND DYING
Embryo Transfer	Determination of Death
Cloning	Terminal Care
GENETIC INTERVENTION	Prolongation of Life
Genetic Counseling	Allowing to Die
Genetic Screening	Euthanasia
DNA Therapy	INTERNATIONAL DIMENSIONS OF
Recombinant DNA Research	BIOLOGY AND MEDICINE
Eugenics	Biological Warfare
SOCIOBIOLOGY	Physicians and Violence
	Resource Allocation

The BIOETHICS file incorporates a variety of media and literary forms, including journal and newspaper articles, monographs, analytics (essays in monographs), court decisions, bills, laws, audiovisuals, and unpublished documents. Materials are selected from the literature of medicine, nursing, the biological sciences, philosophy, religion, law, and the behavioral sciences, as well as from the popular media. The database is comprehensive for English-language materials published from 1973 to the present. No abstracts are included.

In the selection of materials to be indexed for BIOETHICS, a cross-disciplinary monitoring system is employed. Sixty indexes and other reference tools and ninety journals and newspapers are systematically reviewed for pertinent citations and documents. In addition, three databases are regularly searched, i.e., CATLINE, MEDLINE, and the Bibliographic Citation File of the Library of Congress. A list of the sources selectively monitored is included as an appendix to this chapter. Information on data elements, search strategy, or system and communications problems may be obtained by contacting the MEDLARS Management Section, National Library of Medicine, 8600 Rockville Pike, Bethesda, Maryland 20209, Phone: 301/496-6193 or toll free 800/638-8480. Problems with the content of the file should be addressed to the Center for Bioethics, Kennedy Institute of Ethics, Georgetown University, Washington, D.C. 20057, Phone: 202/625-2371.

21.2 ENTERING THE BIOETHICS FILE

To access BIOETHICS, login to ELHILL at NLM in the usual way and enter the command FILE BIOETHICS after any USER: cue.

21.3 BIOETHICS UNIT RECORD

The BIOETHICS unit record is the computer-stored information representing one journal or newspaper article, chapter in a monograph, monograph, court decision, bill, law, audiovisual, or unpublished document. The table below lists the data elements that comprise the unit record, together with their two-letter category qualifiers, search status and print status. Refer to the section on BIOETHICS PRINT COMMANDS to see which publication types contain which data elements.

The BIOETHICS Unit Record

<u>Category Qualifier</u>	<u>Element Name</u>	<u>Search Status</u>	<u>PRINT</u>	<u>PRINT FULL</u>	<u>PRINT DETAILED</u>
AU	AUTHOR	*	Y	Y	Y
BN	ISBN	*	N	N	Y
CN	CORPORATE NAME	TW	Y	Y	Y
EM	ENTRY MONTH	*	N	N	Y
IM	IMPRINT		Y	Y	Y
IS	ISSN	*	N	N	Y
KW	KEYWORD	*	N	N	Y
LA	LANGUAGE	*	N	Y	Y
MH	MESH HEADING	*	N	Y	Y
MN	MESH TREE NUMBER	*	N	N	N
NO	NOTE		N	N	Y
PT	PUBLICATION TYPE	*	N	N	Y
RF	NUMBER OF REFERENCES		N	N	Y
SH	SUBHEADING	*	N	N	N
SJ	SUBJECT HEADING		N	N	Y
SO	SOURCE		Y	Y	Y

MH	MESH HEADINGS	*		X		X		
MI	MONOGRAPHIC INFORMATION		TW				X	
MN	MESH TREE NUMBER	*						
PG	PAGINATION						X	
PL	CITY OF PUBLICATION						X	
PT	PUBLICATION TYPE	*					X	X
PU	PUBLISHER		TW				X	
RF	NUMBER OF REFERENCES						X	X
SE	SERIES TITLE	*			X	X	X	
SO	SOURCE			X	X	X	X	X
TI	TITLE (OF DOCUMENT)		TW	X	X	X	X	X
TJ	TITLE OF JOURNAL	*					X	
UI	UNIQUE IDENTIFIER	*					X	X
VI	VOLUME/ISSUE						X	
YR	YEAR (OF PUBLICATION)	*					X	

* = Directly searchable
R = Rangeable
TW = Text Word Searchable

BIOETHICS also has a special print option, PRINT KIE, to assist searchers concerned with Kennedy Institute of Ethics indexing and document identification policies. It displays the same elements as the standard PRINT option plus Keywords (KW), Unique Identifier (UI), and Publication Type (PT).

The source (SO) field is composed of several of the following data elements, depending on publication type: Title of Journal (TJ), Monographic Information (MI), City of Publication (PL), Publisher (PU), Date of Publication (DP), Volume/Issue (VI), Pagination (PG), and Collation (CO). For examples by publication type, see Section 21.3.23, Source.

Following are sample PRINT DETAILED COMPRESSED unit records for a journal article and an analytic:

Journal Article:

AU - MAHLER, D. MARK ; VEATCH, ROBERT, M. ; SIDEL, VICTOR W.
TI - ETHICAL ISSUES IN INFORMED CONSENT: RESEARCH ON MEDICAL COST CONTAINMENT.
SO - JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION. 1982 JAN 22/29; 247(4): 481-485.
TJ - JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION.
DP - 1982 JAN 22/29;
VI - 247(4):
PG - 481-485.
RF - 20 REFS.
IS - 0002-9955
KW - COSTS AND BENEFITS ; *ECONOMICS ; *HEALTH CARE ; *HUMAN EXPERIMENTATION ; *INFORMED CONSENT ; PHYSICIAN PATIENT RELATIONSHIP ; *RESEARCH DESIGN ; RESOURCE ALLOCATION ; RISKS AND BENEFITS ; SELECTION OF SUBJECTS ; SELF DETERMINATION ; UTILITARIANISM
MH - COST BENEFIT ANALYSIS ; *ECONOMICS ; ETHICS ; FREEDOM ; *HUMAN EXPERIMENTATION ; *INFORMED CONSENT ; PHYSICIAN-PATIENT RELATIONS ; *RESEARCH DESIGN ; RISK
AA - KIE

AB - IN THE DESIGN OF MEDICAL COST CONTAINMENT RESEARCH, POTENTIAL CONFLICTS DEVELOP AMONG THE PRINCIPLES OF MAXIMIZATION OF GOOD AND MINIMIZATION OF HARM TO THE PATIENT, THE INDIVIDUAL'S RIGHT TO AUTONOMY, AND THE AUGMENTATION OF SOCIETAL WELFARE. PARTICULARLY DIFFICULT ISSUES INVOLVING INFORMED CONSENT ARISE BECAUSE SUCH RESEARCH LACKS THERAPEUTIC INTENT, INTRODUCES UNKNOWN RISKS, AND GENERATES QUESTIONS OF EQUITY IN THE ALLOCATION OF RESOURCES. STATISTICAL DECISION THEORY TECHNIQUES AND RETROSPECTIVE STUDIES ARE ADVOCATED TO OBIVIATE THESE CONCERNS.

UI - 13229
PT - JOURNAL ARTICLE
LA - ENG
YR - 82
EM - 8211

Analytic:

AU - FREIER, D.T.
TI - ORGAN SELLING FOR TRANSPLANTATION.
SO - IN: BASSON, MARC D., ED. ETHICS, HUMANISM AND MEDICINE. NEW YORK: ALAN R. LISS; 1980: 141-143.
MI - IN: BASSON, MARC D., ED. ETHICS, HUMANISM, AND MEDICINE.
PL - NEW YORK:
PU - ALAN R. LISS;
DP - 1980:
PG - 141-143.
GN - PROCEEDINGS OF A CONFERENCE SPONSORED BY THE COMMITTEE ON ETHICS, HUMANISM, AND MEDICINE AT THE UNIVERSITY OF MICHIGAN, ANN ARBOR, 11 NOV 1978.
BN - 0-8451-0038-6
KW - CASE STUDY ; COSTS AND BENEFITS ; MORALITY ; *ORGAN DONATION ; ORGAN DONORS ; ORGAN TRANSPLANTATION ; *REMUNERATION ; RENAL DIALYSIS
MH - CASE REPORT ; COST BENEFIT ANALYSIS ; HEMODIALYSIS ; MORALS ; *TISSUE DONORS ; TRANSPLANTATION
UI - 13093
PT - ANALYTIC
LA - ENG
YR - 80
EM - 8211

The BIOETHICS file was restructured in November 1982 to add several new search features and to bring the citations into greater conformity with the American National Standards Institute (ANSI) standard for bibliographic references. Existing records were machine-converted to correspond as closely as possible to the new formats. As a result, records input since Entry Month 8211 (which corresponds to the Kennedy Institute's Unique Identifier 12932) differ from older records in such details as punctuation, date order, and the content of certain data elements. These differences are illustrated in Section 21.3.23, Source.

21.3.1 ABSTRACT AUTHOR (AA)

The presence of an abstract in a unit record is indicated by the acronym KIE (for Kennedy Institute of Ethics, where the abstracts are written) in this field. The AA field is directly searchable and may be used, if desired, to limit retrieval to those documents having abstracts online:

SS 1 /C?
USER:
*IN VITRO FERTILIZATION (KW)
PROG:
SS (1) PSTG (215)

SS 2 /C?
USER:
1 AND KIE (AA)
PROG:
SS (2) PSTG (21)

Note: This field will be found only in records input in Entry Month 8211 or later.

21.3.2 ABSTRACT (AB)

Beginning with citations added to BIOETHICS in November 1982, unit records for articles from selected journals (see appended list in Section 21.6) include brief descriptive abstracts written by staff members at the Kennedy Institute of Ethics. Significant words in the abstracts are directly searchable as Text Words. Abstracts print with the PRT DETAILED, PRT AR, and tailored print commands:

SS 1 /C?
USER:
*IN VITRO FERTILIZATION (KW)
PROG:
SS (1) PSTG (215)

SS 2 /C?
USER:
PRT AR

Note: This field will only be found in records input since November 1982, i.e., those with an Entry Month (EM) of 8211 or greater.

21.3.3 AUTHORSHIP STATEMENT (AS)

Editor, compiler, and other author function designations are included in this field in records input since Entry Month 8211. In older records, such authorship information is included in the Author (AU) field. In cases of multiple authorship, the function designation appears only after the last named author:

AU - CLOUSER, K. DANNER
AU - ZUCKER, ARTHUR
AS - EDS.

The AS field prints with all print commands.

21.3.4 AUTHOR (AU)

Up to six personal authors may be included in a unit record. Authors are directly searchable as surname followed by a space and then one, two, or three initials. A final initial J or S may represent the abbreviation Jr. or Sr. Diacritical marks are ignored for searching.

CLOUSER KD
MCCORMICK RA
SKEGG PDG
LAPPE M
GOEBERT HWJ

Author names are printed out in a more complete form from that used for searching. Internal punctuation, and often full first and/or middle names, appear in the printed citation. Diacritical marks are printed online as a colon immediately preceding the affected letter. The author query examples above would print out as follows:

AU - CLOUSER, K. DANNER
AU - MCCORMICK, RICHARD A.
AU - SKEGG, P.D.G
AU - LAPP:E, MARC (Author's last name is Lappé)
AU - GOEBERT, H. WILLIAM, JR.

It should be emphasized that the author's surname and initials (without punctuation) are to be used for searching. The truncation symbol (:) or the single variable character symbol (#) should be used when there is any uncertainty about the spelling of an author's name or about the correct initials. For example:

M:CORMICK RA
CL#USER KD
SKEGG:
WALTERS L: (Author's first name is actually spelled LeRoy, but the computer programming treats both capital letters as initials although the name is one word)

The AU field prints with all print commands.

21.3.5 ISBN (BN)

The International Standard Book Number is included, when available, in the unit record of each monograph or analytic (chapter in a monograph). The ISBN is directly searchable; it is printed only with the PRINT DETAILED and tailored print commands. Enter all the characters in the string, including hyphens and letters, followed by a truncation symbol (:) to accommodate variations in final punctuation:

SS 1 /C?
USER:
0-674-09931-1: (BN)

The ISBN can be used to retrieve all the analytics included in the database from a specific monograph.

21.3.6 CORPORATE NAME (CN)

This field contains the names of organizations or groups of persons responsible for the authorship of a document. Some examples are:

AMERICAN MEDICAL ASSOCIATION
NEW YORK. COURT OF APPEALS
U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO. COMMITTEE ON HUMAN RESEARCH

Corporate names are directly searchable and may also be retrieved using the Text Word searching or STRINGSEARCH capabilities. Since records input before the November 1982 reconstruction of the BIOETHICS file include a period at the end of the corporate name, it is necessary to use a truncation symbol (:) when searching directly.

The search strategies below illustrate the direct and Text Word searching approaches to retrieving documents authored by the U.S. Department of Health and Human Services:

```
SS 1 /C?  
USER:  
U.S. DEPARTMENT OF HEALTH A#D HUMAN SERVICES: (CN)  
PROG:  
SS (1) PSTG (10)
```

The following two-step procedure (Text Word search, followed by a STRINGSEARCH as described in Chapter 4 of this Manual) may also be used:

```
SS 1 /C?  
USER:  
(TW) HEALTH AND HUMAN AND SERVICES  
PROG:  
SS (1) PSTG (25)
```

```
SS 2 /C?  
USER:  
TS (CN) :HEALTH:HUMAN:SERVICES:  
PROG:  
SS (2) PSTG (10)
```

The CN field prints with all print commands.

21.3.7 COLLATION (CO)

The collation field is present in the unit records input since Entry Month 8211 for audiovisuals, bills, laws, monographs, and unpublished documents. It contains a physical description of the document (such as running time, packaging, sound and color specifications, and tape size for audiovisuals, and total number of pages for printed materials) and prints as an element of the composite Source (SO) field. CO prints as a separate field with the PRT DETAILED and tailored print commands. The following are examples of collations:

Audiovisuals:

```
CO - 1 CASSETTE; 60 MIN.; SD; COLOR; 3/4 IN.
```

Bills, Laws, Monographs, and Unpublished Documents:

```
CO - 2 P.  
CO - 498 P.
```

21.3.8 DATE OF PUBLICATION (DP)

The date of publication for each document is entered in the DP field in the order year-month-day. For court decisions, the DP field indicates the date the decision was issued. The following examples illustrate some of the forms of date encountered:

DP - 1979 OCT 12;
DP - 1982 FEB/MAR;
DP - 1978/1979.
DP - 1981 DEC;
DP - 1980 WINTER;
DP - 1976.
DP - 1982 JUL 13 (DATE OF DECISION).

Records input before the November 1982 reconstruction of the BIOETHICS file have only a year in the DP field. Therefore, records with an Entry Month less than 8211 (or a Unique Identifier less than 12932) should be searched by publication year alone, without month and/or day.

The DP is directly searchable. Combined with Title of Journal (TJ), for example, it can be used to retrieve citations from a particular issue of a journal (or a particular year of the journal in the case of records input before Entry Month 8211).

Note: Because the final punctuation of both DP and TJ is variable, a final truncation symbol (:) must be used in searching. The word ALL may be used before the truncated term to avoid a possible Multi-Meaning Message (see Chapter 4 of this Manual):

ALL HASTINGS CENTER REPORT: (TJ) AND ALL 1982 FEB: (DP)

ALL NEW YORK TIMES: (TJ) AND ALL 1980: (DP)

DP prints as part of the composite Source (SO) field and as a separate field with the PRT DETAILED and tailored print commands.

21.3.9 ENTRY MONTH (EM) (RANGEABLE)

This is a four-digit number in the form YYYY which indicates the year and month the citation was entered into the BIOETHICS database. June 1981 would appear as 8106. The first 7,129 citations in BIOETHICS carry 7904 as the Entry Month. The file will be updated four times a year, as announced in the NLM Technical Bulletin, and the citations added will carry the year and month of the update as the Entry Month.

Entry Month is both directly searchable and rangeable. It can be searched alone or in combination with a subset of retrieved citations. Combined with Keywords or MeSH Headings, for example, it can be used to update subject searches on a regular basis.

Examples: *HUMAN EXPERIMENTATION (KW) AND 8203 (EM)
*HUMAN EXPERIMENTATION (KW) AND FROM 8004 TO 8008 (EM)
*HUMAN EXPERIMENTATION AND GREATER THAN 8203 (EM)

The qualifier (EM) must be used for ranging. EM prints with the PRT DETAILED and tailored print commands.

21.3.10 GENERAL NOTE (GN)

This field is used to record various kinds of supplementary information about a document. The GN is Text Word searchable and prints with the PRT FULL, PRT DETAILED, PRT AR, and tailored print commands. The following examples illustrate possible results of a PRT INCLUDE GN command used with different publication types:

Audiovisual:

- TI - BERTHA. [MOTION PICTURE].
- SO - WASHINGTON, D.C.: JOSEPH P. KENNEDY, JR. FOUNDATION; 1973.
35 MIN.; SOUND; COLOR; 16MM.
- GN - ACCOMPANIED BY 9 P. STUDY GUIDE AND SET OF DISCUSSION QUESTIONS.

Journal Article:

- CN - AMERICAN MEDICAL ASSOCIATION. BOARD OF TRUSTEES
- TI - CONFIDENTIALITY OF OCCUPATIONAL MEDICAL RECORDS.
- SO - CONNECTICUT MEDICINE. 1981 JUL; 45(7): 459-460.
- GN - REPORT OF THE AMA BOARD OF TRUSTEES TO THE HOUSE OF DELEGATES
AT ITS INTERIM MEETING, DEC 1980.

Monograph:

- CN - U.S. NATIONAL LIBRARY OF MEDICINE
- TI - HUMAN EXPERIMENTATION. LITERATURE SEARCH NO. 76-4.
- SO - BETHESDA, MD.: NATIONAL INSTITUTES OF HEALTH; 1976. 19 P.
- GN - PREPARED BY CHARLOTTE KENTON. INCLUDES 291 CITATIONS INPUT
FROM JAN 1973 THROUGH DEC 1975.

21.3.11 ISSN (IS)

The International Standard Serial Number for a journal is directly searchable. This field is always a nine-character string of two groups of four digits separated by a hyphen in the form 0000-0000. It can be searched alone to retrieve articles in the database from a particular journal or it can be combined with other searchable categories to limit retrieval to a specific journal.

SS 1 /C?

USER:

0028-4793 (IS)

PROG:

SS (1) PSTG (153)

(This is the ISSN for the New
England Journal of Medicine)

Note: The ISSN field is missing in some older records and in records for articles input to the file before an ISSN was assigned to the journal in which they were published. The Title of Journal (TJ) field is also directly searchable and can be used instead of IS to limit retrieval to a particular journal (see Section 21.3.25 of this Chapter).

21.3.12 KEYWORDS (KW)

Keywords are indexing terms from the Bioethics Thesaurus, a structured vocabulary which was developed especially for the cross-disciplinary literature of bioethics and contains specific ethical, legal, and philosophical terms not included in Medical Subject Headings (MeSH). Approximately 60% of the 600 Keywords in the Bioethics Thesaurus are identical or equivalent to MeSH terms. Equivalent BIOETHICS Keywords are mapped to the appropriate MeSH Heading, and the user may search using either the Keyword or the MeSH equivalent. Searchers must remember, however, that it has not been possible to establish MeSH equivalents

for all terms in the Bioethics Thesaurus, and that utilizing the specialized vocabulary developed to index bioethical materials will result in more efficient searching and frequently in more precise retrieval. Copies of the Bioethics Thesaurus, complete with scope notes and the hierarchical relationships among terms, are available from the Kennedy Institute of Ethics (see Section 21.4.1 for details). An alphabetical list of BIOETHICS Keywords, with their MeSH equivalents if any, is included in an appendix to this Chapter (Section 21.7).

Examples of Keyword to MeSH maps:

<u>Keyword</u>	<u>MeSH Equivalent</u>
ALLOWING TO DIE	EUTHANASIA, PASSIVE
CONFIDENTIALITY	CONFIDENTIALITY
HUMAN EXPERIMENTATION	HUMAN EXPERIMENTATION
INFORMED CONSENT	INFORMED CONSENT
PARENTAL CONSENT	INFORMED CONSENT
UTILITARIANISM	ETHICS

Those BIOETHICS Keywords mapped to a MeSH term may be searched either with or without a qualifier, e.g.:

```
SS 1 /C?
USER:
ALLOWING TO DIE
PROG:
SS (1) PSTG (794)
```

```
SS 2 /C?
USER:
ALLOWING TO DIE (KW)
PROG:
SS (2) PSTG (794)
```

Since more than one closely related Keyword may be mapped to a single MeSH Heading, the number of postings for an unqualified term will sometimes exceed the number of postings for the same term searched with the qualifier KW.

The default in subject searching is to MeSH Headings; therefore, when searching a BIOETHICS Keyword that is not mapped to a MeSH equivalent, the user must qualify the Keyword. If an unmapped Keyword is not qualified with (KW), a NO POSTINGS message will result:

```
SS 1 /C?
USER:
PATERNALISM
PROG:
NP (PATERNALISM (MH) )
```

```
SS 1 /C?
USER:
PATERNALISM (KW)
PROG:
SS (1) PSTG (114)
```

Keywords may be preceded by an asterisk (*) to retrieve only documents in which the requested Keyword is a major point.

The computer assigns asterisked Keywords to a different index than non-asterisked Keywords. Therefore, the NBRDET command does not display asterisked terms immediately after the total postings for the Keyword as it does with MeSH Headings. It is necessary to use the NBR command with the asterisked Keyword to find out how many postings there are for the term as a main point of a document. For example:

```
USER:      TERM
NBRDET PERSONHOOD
PROG:
POSTINGS
  1      PERSONALITY AND SOCIAL PSYCHOLOGY BULLE (Tj)
  1      PERSONALIZED (TW)
 405     PERSONHOOD (TW)
 397     PERSONHOOD (KW)      (Total postings for the Keyword. To
  1      PERSONNEL (TW)      find out how many of the 397 postings
                              have the term as a main point of the
                              document, NBR *PERSONHOOD)
```

```
USER:
NBR *PERSONHOOD
PROG:
POSTINGS      TERM
  2      *PERINATOLOGY (KW)
  3      *PERSONALITY (KW)
 107     *PERSONHOOD (KW)
  5      *PHENYLKETONURIA (KW)
  1      *PHILIPPINES (KW)
```

In addition to terms from the controlled vocabulary of the Bioethics Thesaurus, proper names (identifiers) are also included in the keyword file. They must be searched with the qualifier (KW). Like other keywords, identifiers may be searched as asterisked terms. Among the various types of identifiers are the names of persons, corporate bodies, laws, court decisions, and geographic areas:

```
AMERICAN MEDICAL ASSOCIATION (KW)
BOSTON (KW)
CALIFORNIA NATURAL DEATH ACT (KW)
HARVARD COMMITTEE ON BRAIN DEATH (KW)
*NATIONAL INSTITUTES OF HEALTH (KW)
QUINLAN, KAREN (KW)
*ROE V. WADE (KW)
```

Note: Names of persons as subjects are entered in inverted order using the comma after the surname. Use of the truncation symbol (:) will assist in retrieving variant forms of names:

```
QUINLAN, K: (KW)
      or
QUINLAN: (KW)
```

All Keywords, including identifiers, are both directly and Text Word searchable. See Section 21.4.2 for a discussion of the use of Text Words in subject searching. Keywords print with the PRT DETAILED, PRT KIE, and tailored print commands.

21.3.13 LANGUAGE (LA)

The value for this field is a 3-letter abbreviation of the language in which the document was written, e.g., English=ENG. At the present time, BIOETHICS contains only English language materials. Language prints with the PRT DETAILED and tailored print commands, and the field is directly searchable.

21.3.14 MeSH HEADINGS (MH)

These are indexing terms from Medical Subject Headings (MeSH). As explained above in Section 21.3.12, each record in the BIOETHICS file carries a list of MeSH Headings which are the same as, or equivalent to, the BIOETHICS Keywords assigned to that record. MeSH terms may thus be used to search this file, although with some loss of precision. MeSH headings do not have to be qualified. They print with the PRT FULL, PRT DETAILED, and tailored print commands.

21.3.15 MONOGRAPHIC INFORMATION (MI)

When an analytic (chapter from a monograph) is indexed, the MI data element contains the names of the author(s)/editor(s) of the book and the title of the book as a whole, preceded by the word In:

AU - SINGER, MAXINE, ET AL
TI - WHAT LESSONS DOES THE RECOMBINANT DNA DEBATE TEACH US: A
ROUND TABLE DISCUSSION.
SO - IN: MORGAN, JOAN; WHELAN, W.J., EDS. RECOMBINANT DNA AND
GENETIC EXPERIMENTATION. NEW YORK: PERGAMON PRESS, 1979.
P. 223-240.
MI - IN: MORGAN, JOAN; WHELAN, W.J., EDS. RECOMBINANT DNA AND
GENETIC EXPERIMENTATION.

If a chapter from a book and the book as a whole are authored by the same person(s), the MI field will contain the title of the book as a whole preceded by In: and the appropriate pronoun:

AU - BROMBERG, WALTER
TI - PRIVACY, CONFIDENTIALITY, AND CONSENT.
SO - IN: HIS THE USES OF PSYCHIATRY IN THE LAW: A CLINICAL VIEW
OF FORENSIC PSYCHIATRY. WESTPORT, CONN.: QUORUM BOOKS, 1979.
P. 389-409.
MI - IN: HIS THE USES OF PSYCHIATRY IN THE LAW: A CLINICAL VIEW
OF FORENSIC PSYCHIATRY.

The MI data element makes up part of the composite Source (SO) field and is Text Word searchable. It prints as a separate field with the PRT DETAILED and tailored print commands.

21.3.16 MeSH TREE NUMBER (MN)

This alphanumeric string indicates the position of a MeSH Heading (or its equivalent BIOETHICS Keyword) in the hierarchical arrangement of MeSH terms called MeSH Tree Structures. The MeSH Tree Number is directly searchable using the qualifier (MN) or a period after the number, but its primary use is with the EXPLODE search capability. The MeSH Tree Number for any heading may be displayed online by use of the MESHNO or TREE commands:

SS 1 /C?	SS 1 /C?
USER:	USER:
MESHNO EUROPE	EXP Z1.542
PROG:	PROG:
EUROPE	SS (1) PSTG (742)
Z1.542	

21.3.17 PAGINATION (PG)

This data element indicates the inclusive pages of an analytic, court decision, journal article, or newspaper article. It is one of the data elements which makes up the composite Source (SO) field. In records input since Entry Month 8211, it prints as a separate field with the PRT DETAILED and tailored print commands.

21.3.18 CITY OF PUBLICATION (PL)

This field contains the name of the city where the publisher of the document is located. The state or country of publication is added when necessary to avoid ambiguity. The PL is one of the data elements used to create the composite Source (SO) field. In records input since Entry Month 8211, it prints separately with the PRT DETAILED and tailored print commands.

21.3.19 PUBLICATION TYPE (PT)

Nine different publication types are cited in BIOETHICS. These are:

1. Analytic
2. Audiovisual material
3. Bill
4. Court decision
5. Journal article
6. Law
7. Monograph
8. Newspaper article
9. Unpublished document

The Publication Type can be searched directly using the name of a specific type:

NEWSPAPER ARTICLE (PT)

The Publication Type can also be combined with other data elements:

LIVING WILLS (KW) AND LAW (PT)

MONOGRAPH (PT) AND 80 (YR)

The PT field prints with the PRT DETAILED, PRT KIE, and tailored print commands.

21.3.20 PUBLISHER (PU)

The name of the publisher of the document is included for analytics, audio-visuals, bills, and monographs. In the case of audiovisuals and unpublished documents, the field contains availability information. For bills, it includes the bill number, congressional session, and sponsor.

PU makes up part of the composite Source (SO) field. In records input since Entry Month (EM) 8211, it is a separate Text Word searchable field which prints with the PRT DETAILED and tailored print commands.

21.3.21 NUMBER OF REFERENCES (RF)

This field contains the number of references and/or footnotes (if any) in the cited document. It prints with the PRT DETAILED, PRT AR, and tailored print commands.

21.3.22 SERIES TITLE (SE)

A series name and number may be included in the record of audiovisuals and monographs. In records input since Entry Month (EM) 8211, SE is a separate field which prints with the PRT FU, PRT AR, PRT DL, and tailored commands. It should be searched using the Text Word searching capability, followed if necessary by a STRINGSEARCH as suggested under Corporate Name (CN). In older records, series information may be found in the General Note (GN) field, which is also Text Word searchable.

21.3.23 SOURCE (SO)

This is a composite field consisting of from three to five data elements (or, in the case of records input prior to Entry Month 8211, pieces of information equivalent to current data elements), depending on publication type. The Source field is not searchable, but is displayed with all print commands. Following are examples of what this composite field looks like in newer and older records of each publication type:

Analytic

Record input since Entry Month 8211 (elements MI, PL, PU, DP, PG):

SO - IN: BASSON, MARC D., ED. ETHICS, HUMANISM, AND MEDICINE. NEW YORK: ALAN R. LISS; 1980: 43-49.

Record input before Entry Month 8211 (elements MI, PL, PU, DP, PG):

SO - IN: REICH, WARREN T., ED. ENCYCLOPEDIA OF BIOETHICS, VOLUME 1.
NEW YORK::FREE PRESS,:1978. P. 159-162.

Audiovisual Material

Record input since Entry Month 8211 (elements PL, PU, DP, CO):

SO - CHARLOTTESVILLE, VA.: UNIVERSITY OF VIRGINIA MEDICAL CENTER, HEALTH
SCIENCES LIBRARY, 1981. 1 CASSETTE; 60 MIN.; SD.; COLOR; 3/4 IN.

Record input before Entry Month 8211 (elements PL, PU, DP, with Collation
information to be found in the General Note field):

SO - CHARLOTTESVILLE, VA.: UNIVERSITY OF VIRGINIA MEDICAL CENTER, HEALTH
SCIENCES LIBRARY, 1979.

Bill

Record input since Entry Month 8211 (elements PU, DP, CO, with committee
referral information to be found in the General Note field):

SO - H.R. 3774, 97TH CONG., 1ST SESS. BY PHILIP M. CRANE. 1981 Jun 3. 4 P.

Record input before Entry Month 8211 (elements PU, DP, CO, GN):

SO - H.R. 433, 96TH CONG., 1ST SESS., 15 JAN 1979. 3 P. BY GEORGE
HANSEN. REFERRED TO THE COMMITTEE ON INTERSTATE AND FOREIGN COMMERCE.

Court Decision

Record input since Entry Month 8211 (elements TJ, DP, VI, PG):

SO - NEW YORK SUPPLEMENT, 2D SERIES. 1980 NOV 13 (DATE OF DECISION).
434: 46-48.

Record input before Entry Month 8211 (elements TJ, VI, PG with date of decision
to be found in the Title field):

SO - FEDERAL SUPPLEMENT, 451: 692-696.

Journal Article

Record input since Entry Month 8211 (elements TJ, DP, VI, PG):

SO - JOURNAL OF MEDICAL ETHICS. 1981 DEC; 7(4): 180-181.

Record input before Entry Month 8211 (elements TJ, VI, PG, DP):

SO - JOURNAL OF MEDICAL ETHICS 6(2): 71-77, JUN 1980.

Law

Record input since Entry Month 8211 (elements TJ, DP, VI, CO):

SO - ILLINOIS ANNOTATED STATUTES (SMITH-HURD). 1980 CUMULATIVE ANNUAL POCKET PART. CHAPTER 38, SECTION 6. 1 P.

Record input before Entry Month 8211 (elements TJ, DP, VI, with Collation information in General Note field):

SO - ILLINOIS REVISED STATUTES, 1979, SECTIONS 801 to 817.

Monograph

Record input since Entry Month 8211 (elements PL, PU, DP, CO):

SO - NEW YORK: ALAN R. LISS; 1980. 321 P.

Record input before Entry Month 8211 (elements PL, PU, DP, CO):

SO - NEW YORK::W.W. NORTON,:1979. 254 P.

Newspaper Article

Record input since Entry Month 8211 (elements TJ, DP, VI if any, PG):

SO - ATLANTA WEEKLY. 1980 OCT 12: 8-9, 19.

Record input before Entry Month 8211 (elements TJ, VI if any, DP, PG):

SO - NEW YORK TIMES, 27 JAN 1980, P. 1+.

Unpublished Document

Record input since Entry Month 8211 (elements PL, PU, DP, CO, equivalent to availability/source information plus date and collation):

SO - UNPUBLISHED DOCUMENT: AVAILABLE FROM THE MERVYN H. STERNE LIBRARY, UNIVERSITY OF ALABAMA, BIRMINGHAM. 1977 AUG. 8 P.

Record input before Entry Month 8211 (elements PL, DP, CO, PU, equivalent to availability/source information plus date and collation):

SO - UNPUBLISHED DOCUMENT. 31 OCT 1977. 4 P. CALIFORNIA MEDICAL ASSOCIATION. COMMITTEE ON EVOLVING TRENDS IN SOCIETY AFFECTING LIFE, SAN FRANCISCO, CALIF.

21.3.24 TITLE (TI)

This data element contains the complete title of the document. Supplied information, such as an AACR2 medium designation in the case of audiovisual materials, is enclosed in brackets. Court decision records input prior to Entry Month 8211 include the date of decision in the title.

Examples: TI - ADEN V. YOUNGER. 19 JUN 1976.
TI - GENE THERAPY IN HUMAN BEINGS: WHEN IS IT ETHICAL TO BEGIN?
TI - RANDOMIZED CLINICAL TRIALS: RESEARCH DESIGN AND THE ETHICS
OF CONSENT. [VIDEORECORDING].

Each separate word in the title may be searched as a Text Word unless it appears on the Stopword List (see Chapter 4). The Title field is displayed with all print commands.

21.3.25 TITLE OF JOURNAL (TJ)

This data element contains the complete title of a journal, newspaper, or legal code. In the case of laws and court decisions, the TJ field contains, respectively, the name of the state or federal code or the name of the reporter series. This field can be searched directly as in the example below; because records input before and after the November 1982 reconstruction of the BIOETHICS file differ in final punctuation, it is necessary to use a final truncation symbol (:) when searching:

```
SS 1 /C?  
USER:  
NEW ENGLAND JOURNAL OF MEDICINE: (TJ)  
PROG:  
SS (1) PSTG (153)
```

The Title of Journal can also be combined with other searchable elements, such as Keywords or MeSH Headings, to restrict retrieval to a particular journal:

```
SS 2 /C?  
USER:  
(KW) *IN VITRO FERTILIZATION AND HASTINGS CENTER REPORT: (TJ)  
PROG:  
SS (2) PSTG (37)
```

TJ is one of the data elements used to create the composite Source (SO) field. It prints as a separate element with the PRT DETAILED and tailored print commands.

21.3.26 UNIQUE IDENTIFIER (UI)

This is a sequential accession number assigned to each citation in the BIOETHICS file by the Kennedy Institute of Ethics. It is both directly searchable and rangeable:

```
SS 1 /C?  
USER:  
12979 (UI)  
SS (1) PSTG (1)
```

SS 2 /C?
USER:
PRT INCLUDE UI
PROG:
1
AU - DICKSON, DAVID
TI - DATA FALSIFICATION: HARVARD ACTS.
SO - NATURE. 1981 DEC 24/31; 294(5843): 684.
UI - 12979

SS 2 /C?
USER:
(KW) HOST MOTHERS AND GREATER THAN 12931 (UI)
PROG:
SS (2) PSTG (14)

(This strategy will retrieve all records on the subject entered with UIs greater than 12931, i.e., those input since the BIOETHICS file was reconstructed in November 1982.)

The UI field prints with the PRT DETAILED, PRT KIE, and tailored print commands.

21.3.27 VOLUME/ISSUE (VI)

For journal articles, the VI data element indicates the volume and (in parentheses) the issue, if any, of the journal in which the article was published. Following are examples of how this element would appear after a PRT DETAILED or tailored print command:

VI - 99(3):
VI - 15: (no issue number assigned to the journal)
VI - 18(SUPPLEMENT 2):

For newspaper articles, the VI field might be included to indicate the section of the publication. The example below shows how this information would appear as part of the Source (SO) field:

SO -NEW YORK TIMES. 1982 JAN 3: SECT. 4: 19.

VI

The VI field for court decisions contains the volume of the reporter series in which the decision was published. This example illustrates how it would appear as part of the composite Source (SO) field:

SO - NEW YORK SUPPLEMENT, 2D SERIES. 1980 NOV 13 (DATE OF DECISION).
434: 46-48.

VI

For laws, the sections of the code comprise the VI element:

SO - CODE OF ALABAMA 1975 ANNOTATED. 1980 CUMULATIVE SUPPLEMENT.
1980. SECTIONS 22-31-1 TO 22-31-4. 2 P.

VI

The VI data element prints as part of the composite Source (S0) field and, in records input since Entry Month 8211, as a separate element with the PRT DETAILED and tailored print commands.

21.3.28 YEAR (YR)

This data element indicates the year in which the document was published. It is a two-digit number and is both directly searchable and rangeable. The qualifier (YR) must be used when ranging:

```
SS 1 /C?  
USER:  
*HUMAN EXPERIMENTATION AND FROM 79 TO 81 (YR)  
PROG:  
SS (1) PSTG (459)
```

YR prints with the PRT DETAILED and tailored print commands.

21.4 SPECIAL FEATURES OF SEARCHING BIOETHICS

The BIOETHICS file can be searched using either of two controlled vocabularies, NLM's Medical Subject Headings (MH) or Keywords (KW) from the Bioethics Thesaurus. It can also be free-term searched using the Text Word searching capability. These two basic methods of searching are discussed in Sections 21.4.1 and 21.4.2 below.

In direct searching, it is important to remember that some of the searchable data elements which have been defined for BIOETHICS will not be present in records input prior to Entry Month (EM) 8211. These elements are: Abstract Author (AA), Abstract (AB), Publisher (PU), and Series Title (SE). Date of Publication (DP) occurs in all records but consists only of the year of publication in records input prior to Entry Month 8211.

A final truncation symbol (:) should be used for direct searching of data elements which may vary in final punctuation. These elements are: ISBN (BN), Corporate Name (CN), Date of Publication (DP), and Title of Journal (TJ). The Author (AU) field should also be searched with a final truncation symbol to accommodate varied initials. Truncated search forms may be preceded by the word ALL to avoid a possible multi-meaning message.

BIOETHICS defaults to searching all directly searchable fields except Keywords (KW) and Text Words (TW), which must be qualified. (Those Keywords which are mapped to MeSH Headings may be searched with or without a qualifier.) The ranging default is to the Unique Identifier (UI) field, which means that Entry Month (EM) and Year of Publication (YR) must be qualified when ranged. The STRINGSEARCH default is to the Title (TI) field.

21.4.1 CONTROLLED VOCABULARY SEARCHING IN BIOETHICS

BIOETHICS can be searched by using either MeSH Headings or Keywords from the Bioethics Thesaurus. Some Keywords in the Bioethics Thesaurus are the same as MeSH terms, for example: BIOETHICS, GENETIC COUNSELING, and HUMAN EXPERIMENTATION. In other cases, the MeSH term is in inverted order while the BIOETHICS Keyword is in natural language order: ETHICS, MEDICAL vs. MEDICAL ETHICS. In all cases where BIOETHICS Keywords differ from MeSH Headings in word order, number, or choice of phrase, but where the meaning remains essentially the same, the BIOETHICS Keyword is mapped to the MeSH Heading.

A user entering BIOETHICS with the MeSH Heading EUTHANASIA, PASSIVE will retrieve documents indexed by the BIOETHICS Keyword ALLOWING TO DIE because this term has been mapped to EUTHANASIA, PASSIVE. It is therefore possible to search this database by using MeSH. However, in many cases there are no terms in MeSH to which BIOETHICS Keywords can be mapped. Examples are BEGINNING OF LIFE, THIRD PARTY CONSENT, and VALUE OF LIFE. To search on specific philosophical, legal, or ethical concepts, it is necessary to refer to the Bioethics Thesaurus. For an alphabetical list of the Keywords found in the Thesaurus, see Appendix B (Section 21.7) at the end of this chapter.

Copies of the Bioethics Thesaurus, which includes explanatory notes and displays relationships among Keywords, may be ordered from the Information Retrieval Project, Kennedy Institute of Ethics, Georgetown University, Washington, DC 20057, for \$3.00 per copy. The Thesaurus is also included in each annual volume of the Bibliography of Bioethics, published since 1981 (Volume 7) by the Free Press, a division of Macmillan Publishing Company, 866 Third Avenue, New York, New York 10022.

21.4.2 TEXT WORD SEARCHING IN BIOETHICS

Text Words are derived from the following eight BIOETHICS data elements:

- Abstract (AB)
- Corporate Name (CN)
- General Note (GN)
- Keywords (KW)
- Monographic Information (MI)
- Publisher (PU)
- Series Title (SE)
- Title (TI)

Any word which occurs in one of the above fields and which is not on the ELHILL Stopword List (see Chapter 4 of this Manual for the ELHILL Text Word term generation rules and Stopword List) may be picked up by searching for the word with the qualifier (TW).

Extension of the Text Word searching capability to the Keywords field in BIOETHICS will make it easier for searchers to retrieve identifiers, i.e., proper names which are not part of the controlled indexing vocabulary of the Bioethics Thesaurus. (See Section 21.3.12 for a discussion of identifiers as Keywords).

For instance, a user interested in documents related to the court case involving the removal of Karen Ann Quinlan from a respirator would not know how these documents are indexed. A quick Text Word search would retrieve all records in which the word "Quinlan" appears in any of the eight Text Word searchable elements listed above:

```
SS 1 /C?  
USER:  
(TW) QUINLAN  
PROG:  
SS (1) PSTG (200)
```

The user could then enter PRINT COMPRESSED KW 5 (or PRT COMPR KW 5) to browse through five of these records. This would reveal that the citations might be indexed either by IN RE QUINLAN or by QUINLAN, KAREN, depending on how legally-oriented the document is. The user could narrow the search to highly relevant documents by entering one or both of the identifiers as asterisked Keywords:

```
SS 2 /C?  
USER:  
(KW) *IN RE QUINLAN  
PROG:  
SS (2) PSTG (34)
```

```
SS 3 /C?  
USER:  
(KW) *IN RE QUINLAN OR *QUINLAN, KAREN  
PROG:  
SS (3) PSTG (132)
```

Important court cases may also present problems in retrieval when the case is known by several names as it makes its way through the courts. A good example of this is the landmark case Wyatt v. Stickney, which involved mentally retarded residents of a state institution and officials of the Alabama Department of Mental Health. After the original 1972 decision, the case returned to the courts three times as Wyatt v. Aderholt (1974), Wyatt v. Hardin (1978), and Wyatt v. Ireland (1978). A Text Word search,

```
(TW) WYATT
```

would retrieve documents discussing any one of these cases.

The ability to Text Word search identifiers in the Keywords (KW) field is also useful in retrieving documents indexed with lengthy terms or phrases where the exact order of words is not known to the searcher:

TEXT WORD

```
ASILOMAR  
HELSINKI  
KOHLBERG
```

KEYWORD

```
ASILOMAR CONFERENCE  
HELSINKI DECLARATION  
KOHLBERG APPROACH TO MORAL DEVELOPMENT
```

Users of the Text Word approach to subject searching must be willing to accept some irrelevant "false drops" in the retrieved set. The number of false drops may be small or large depending on the particular word searched. A search for HARVARD (TW) would retrieve all of the identifiers HARVARD COMMITTEE ON BRAIN DEATH, HARVARD MEDICAL SCHOOL, and HARVARD UNIVERSITY. At the same time, however, the search might also pick up citations with the word "Harvard" occurring in other Text Word searchable fields, such as Publisher, or even in the same Keywords field, e.g., if a person with the surname Harvard had even been used as an identifier. A follow-up STRINGSEARCH,

HARVARD (TW)
SS (1) PSTG (76)

TS (KW) :HARVARD:
SS (2) PSTG (70)

could be used to eliminate irrelevant citations picked up from other Text Word searchable fields. (See Chapter 4 of this Manual for a description of the STRINGSEARCH capability.)

21.5 BIOETHICS PRINT COMMANDS

There are five standard PRINT formats in BIOETHICS: PRINT (or PRT), PRINT FULL, (or PRT FU), PRINT DETAILED (or PRT DL), PRINT AR (or PRT AR), and PRINT KIE (or PRT KIE). Tailored PRINT commands, those in which the searcher selects the elements to be printed out, may be constructed according to the principles set forth in Chapter 4 of this Manual.

Section 21.3 of this Chapter includes a table of data elements which display with each of the standard PRINT commands. The data elements which may occur in a particular unit record vary with the publication type being cited. The chart below indicates the publication types for which particular data elements will be displayed, if present, with the PRINT, PRINT FULL, PRINT AR, and PRINT KIE commands:

	<u>Analytcs; Journal & Newspaper Articles; Unpublished Documents</u>	<u>Audiovisuals; Monographs</u>	<u>Bills; Court Decisions; Laws</u>
1. PRINT	AU - AUTHOR AS - AUTHORSHIP STATEMENT CN - CORPORATE NAME TI - TITLE SO - SOURCE	AU - AUTHOR AS - AUTHORSHIP STATEMENT CN - CORPORATE NAME TI - TITLE SO - SOURCE	CN - CORPORATE NAME TI - TITLE SO - SOURCE

- | | | | |
|---------------|--|--|--|
| 2. PRINT FULL | AU - AUTHOR
AS - AUTHORSHIP STATEMENT
CN - CORPORATE NAME
TI - TITLE
SO - SOURCE
GN - GENERAL NOTE
MH - MESH HEADING | AU - AUTHOR
AS - AUTHORSHIP STATEMENT
CN - CORPORATE NAME
TI - TITLE
SO - SOURCE
SE - SERIES TITLE
GN - GENERAL NOTE
MH - MESH HEADING | CN - CORPORATE NAME
TI - TITLE
SO - SOURCE
GN - GENERAL NOTE
MH - MESH HEADING |
| 3. PRINT AR | AU - AUTHOR
AS - AUTHORSHIP STATEMENT
CN - CORPORATE NAME
TI - TITLE
SO - SOURCE
RF - REFERENCES
GN - GENERAL NOTE
AB - ABSTRACT* | AU - AUTHOR
AS - AUTHORSHIP STATEMENT
CN - CORPORATE NAME
TI - TITLE
SO - SOURCE
SE - SERIES TITLE
RF - REFERENCES
GN - GENERAL NOTE | CN - CORPORATE NAME
TI - TITLE
SO - SOURCE
RF - REFERENCES
GN - GENERAL NOTE |
| 4. PRINT KIE | AU - AUTHOR
AS - AUTHORSHIP STATEMENT
CN - CORPORATE NAME
TI - TITLE
SO - SOURCE
KW - KEYWORDS
UI - UNIQUE IDENTIFIER
PT - PUBLICATION TYPE | AU - AUTHOR
AS - AUTHORSHIP STATEMENT
CN - CORPORATE NAME
TI - TITLE
SO - SOURCE
KW - KEYWORDS
UI - UNIQUE IDENTIFIER
PT - PUBLICATION TYPE | CN - CORPORATE NAME
TI - TITLE
SO - SOURCE
KW - KEYWORDS
UI - UNIQUE IDENTIFIER
PT - PUBLICATION TYPE |

*At present, Abstracts will be found only in unit records for selected Journal Articles.

Following is an alphabetical list of publication types showing all printable data elements which may occur in their unit records (equivalent to which elements will be displayed, if present, with a PRINT DETAILED command):

Analytic: AU, AS, CN, TI, SO, MI, PL, PU, DP, PG, RF, GN, BN, KW, MH, UI, PT, LA, YR, EM

Audiovisual Material: AU, AS, CN, TI, SO, PL, PU, DP, CO, SE, GN, KW, MH, UI, PT, LA, YR, EM

Bill: CN, TI, SO, PU, DP, CO, GN, KW, MH, UI, PT, LA, YR, EM

Court Decision: CN, TI, SO, TJ, DP, VI, PG, RF, GN, KW, MH, UI, PT, LA, YR, EM

Journal Article: AU, AS, CN, TI, SO, TJ, DP, VI, PG, RF, GN, IS, KW, MH, UI, PT, LA, YR, EM

Law: CN, TI, SO, TJ, DP, VI, CO, RF, GN, KW, MH, UI, PT, LA, YR, EM

Monograph: AU, AS, CN, TI, SO, PL, PU, DP, CO, SE, RF, GN, BN, KW, MH
UI, PT, LA, YR, EM

Newspaper Article: AU, AS, CN, TI, SO, TJ, DP, VI, PG, RF, GN, IS, KW,
MH, UI, PT, LA, YR, EM

Unpublished Document: AU, AS, CN, TI, SO, PL, PU, DP, CO, RF, GN, KW,
MH, UI, PT, LA, YR, EM

When a document is authored by a corporate body, the Corporate Name (CN) prints in place of the Author (AU). When a document has both a personal Author and a Corporate Name author, both will print with all five PRINT commands.

For those interested in sorting the output of offline printouts, the following Precoded Sorts have been established for BIOETHICS (all data elements sort in ascending order from A-Z and 0-9): AUTI = Author/Corporate Name/Title; JNL = Source; PUBT = Publication Type/Author/Corporate Name/Title; and TIAU = Title/Author/Corporate Name.

APPENDIX A

21.6 SOURCES SELECTIVELY MONITORED IN THE PREPARATION OF BIOETHICS (1982 LIST)

A. Journals and Newspapers

- | | |
|---|--|
| <p>America
 *American Journal of Law and Medicine
 *American Journal of Nursing
 *American Journal of Psychiatry
 *American Journal of Public Health (A)
 *American Medical News
 *American Psychologist
 *Annals of Internal Medicine
 Atlantic
 Bioethics Letter
 *Bioethics Quarterly (A)
 *BioScience
 *British Medical Journal (A)
 *Bulletin of the American Academy
 Psychiatry and the Law
 *Bulletin of the Atomic Scientists
 *Bulletin of the History of Medicine
 *Canadian Medical Association Journal
 *Chemical & Engineering News
 Christian Century
 Commentary
 Commonweal
 *Connecticut Medicine
 *Culture, Medicine, and Psychiatry
 *Death Education
 *Dimensions in Health Service
 Ethics (A)
 Ethics and Medics
 *Hastings Center Report (A)
 *Hospital Medical Staff
 *Hospital Progress
 *Hospitals
 *Human Life Review
 *International Digest of Health
 Legislation
 *IRB: A Review of Human Subjects
 Research
 *Journal of Health Politics,
 Policy and Law (A)
 *Journal of Legal Medicine
 *Journal of Medical Ethics (A)
 *Journal of Medicine and Philosophy (A)
 *Journal of Psychiatry and Law
 Journal of Public Health Policy
 Journal of Reform Judaism
 Journal of Religious Ethics
 *Journal of the American Medical
 Association (A)
 Judaism
 *Lancet (A)
 *Law, Medicine, and Health Care</p> | <p>*Legal Aspects of Medical Practice
 (formerly Journal of Legal Medicine)
 *Legal Medical Quarterly
 *Linacre Quarterly
 *Man and Medicine
 *Medical Care
 Medical-Moral Newsletter
 *Medical World News
 *Medico-Legal Bulletin
 *Medico-Legal Journal
 *Metamedicine
 *Milbank Memorial Fund Quarterly
 *Modern Medicine
 *Nation's Health
 *Nature (A)
 *New England Journal of Medicine (A)
 *New Physician
 *New Scientist
 New York Times
 New York Times Magazine
 *Nursing Mirror
 *Nursing Times
 *Ob. Gyn. News
 *Omega
 Patient Rights Digest
 *Perspectives in Biology and Medicine
 Perspectives in the Professions
 Pharos
 Philosophy and Public Affairs (A)
 *Psychology Today
 Review of Metaphysics
 Saturday Review
 *Science (A)
 Science '82
 *Science and Government Report
 *Science and Society
 Science for the People
 *Science News
 Science, Technology, and Human Values
 *Scientific American
 Sh'ma
 *Social Biology
 *Social Science and Medicine (A)
 *Social Studies of Science
 Tradition
 Washington Post
 *Western Journal of Medicine
 Westminster Institute Review
 *World Medical Journal
 *Yale Journal of Biology & Medicine</p> |
|---|--|

*These titles are listed in the List of Journals Indexed in Index Medicus and/or are available through NLM on interlibrary loan.

Articles from titles followed by (A) are currently being abstracted.

B. Indexes and Other Reference Tools:

Abortion Law Reporter
Advance Bibliography of Contents:
 Political Science and Government
All England Law Reports (subject index)
American Book Publishing Record
Australian National Bibliography
Bibliographic Index
British Humanities Index
British National Bibliography
Canadian Periodical Index
Catholic Periodical and Literature
 Index
Checklist of Congressional Hearings
Choice
Clearinghouse Review
Congressional Information Service
Congressional Record (subject index)
Cumulative Book Index
Cumulative Index to Nursing and
 Allied Health Literature
Current Contents: Clinical Practice
Current Contents: Social and
 Behavioral Sciences
Current Work in the History of
 Medicine
Dissertation Abstracts (A): Humanities
 and Social Sciences
Dissertation Abstracts (B): Sciences
 and Engineering
Dominion Law Reports (subject index)
Essay and General Literature Index
Family Planning/Population Reporter
Federal Register Index
General Digest
Hospital Literature Index
Humanities Index
Index to Canadian Legal Periodical
 Literature
Index to Foreign Legal Periodicals
Index to Jewish Periodicals
Index to Legal Periodicals
Index to Periodical Articles
 Related to Law
Index to South African Periodicals
Index to U.S. Government Periodicals
International Nursing Index
Legal Contents
Library of Congress Catalog: Films
 and Other Materials for Projection
Mental Disability Law Reporter
Modern Federal Practice Digest
Monthly Catalog of U.S. Government
 Publications
Philosopher's Index
Population Index
Psychological Abstracts
Public Affairs Information Service
 Bulletin
Reader's Guide to Periodical Literature
Religion Index One: Periodicals
Religious and Theological Abstracts
Reporter on Human Reproduction and
 the Law
Science Books and Films
Selected Rand Abstracts
Selected U.S. Government Publications
Social Sciences Index
Sociological Abstracts
Specialty Law Digest: Health Care
State Health Legislation Report
Subject Guide to Books in Print
Subject Guide to Canadian Books
 in Print
Times [of London] Index
U.S. Law Week
Vertical File Index
Wall Street Journal Index
Western Weekly Reports (subject index)

C. Databases

MEDLINE and CATLINE of the National Library of Medicine
Bibliographic Citation File of the Library of Congress

Rev. 11/82

APPENDIX B

21.7 BIOETHICS KEYWORDS, WITH 1982 MESH HEADING MAPS (IF ANY)

<u>BIOETHICS TERM</u>	<u>MESH TERM EQUIVALENT</u>
ABORTED FETUSES	FETUS
ABORTION	ABORTION
ABORTION ON DEMAND	ABORTION, LEGAL
ACTIVE EUTHANASIA	EUTHANASIA
ADMINISTRATORS	ADMINISTRATIVE PERSONNEL
ADOLESCENTS	ADOLESCENCE
ADOPTION	ADOPTION
ADULTS	ADULT
ADVISORY COMMITTEES	no map
AGE	AGE FACTORS
AGED	AGED
AGGRESSION	AGGRESSION
AID	INSEMINATION, ARTIFICIAL, HETEROLOGOUS
AID CHILDREN	no map
AIH	INSEMINATION, ARTIFICIAL, HOMOLOGOUS
ALCOHOL ABUSE	ALCOHOLISM
ALLOWING TO DIE	EUTHANASIA, PASSIVE
ALTERNATIVES	no map
ALTRUISM	ALTRUISM
AMNIOCENTESIS	AMNIOCENTESIS
ANCIENT HISTORY	HISTORY OF MEDICINE, ANCIENT
ANESTHESIA	ANESTHESIA
ANIMAL EXPERIMENTATION	ANIMAL EXPERIMENTATION
ARTIFICIAL GENES	GENES, SYNTHETIC
ARTIFICIAL INSEMINATION	INSEMINATION, ARTIFICIAL
ARTIFICIAL ORGANS	ARTIFICIAL ORGANS
ATTITUDES	ATTITUDE
ATTITUDES TO DEATH	ATTITUDE TO DEATH
AUDIOVISUAL AIDS	AUDIO-VISUAL AIDS
AUTHORITARIANISM	AUTHORITARIANISM
AUTOPSIES	AUTOPSY
BATTERY	no map
BEGINNING OF LIFE	no map
BEHAVIOR CONTROL	no map
BEHAVIOR DISORDERS	MENTAL DISORDERS
BEHAVIORAL GENETICS	GENETICS, BEHAVIORAL
BEHAVIORAL RESEARCH	RESEARCH
BENEFICENCE	ALTRUISM
BIBLIOGRAPHY (as checktag)	BIBLIOGRAPHY (as checktag)
BIOETHICAL ISSUES	BIOETHICS
BIOETHICS	BIOETHICS
BIOLOGICAL CONTAINMENT	CONTAINMENT OF BIOHAZARDS
BIOLOGICAL LIFE	no map
BIOLOGICAL WARFARE	BIOLOGICAL WARFARE
BIOLOGY	BIOLOGY
BIOMEDICAL RESEARCH	RESEARCH
BIOMEDICAL TECHNOLOGIES	TECHNOLOGY, MEDICAL
BIRTH ORDER	BIRTH ORDER
BIRTH RATE	BIRTH RATE

BIOETHICS TERM

BLACKS
BLOOD DONATION
BLOOD TRANSFUSIONS
BODY PARTS AND FLUIDS
BONE MARROW
BOOK REVIEW (as checktag)
BRAIN
BRAIN DEATH
BRAIN PATHOLOGY
BURN PATIENTS
CADAVERS
CANCER
CAPITAL PUNISHMENT
CAPITALISM
CARCINOGENS
CARRIERS
CASE REPORTS
CASE STUDIES (formerly also CASE
STUDY and CASE REPORTS)
CENTRAL NERVOUS SYSTEM DISEASES
CHILD NEGLECT
CHILDBIRTH
CHILDREN
CHRISTIAN ETHICS
CHROMOSOMAL DISORDERS
CHRONICALLY ILL
CLERGY
CLONES
CLONING
CODES OF ETHICS
COERCION
COMA
COMMON GOOD
COMMUNICABLE DISEASES
COMMUNICATION
COMMUNISM
COMMUNITY MEDICINE
COMMUNITY SERVICES
COMPENSATION
COMPETENCE
COMPREHENSION
CONFIDENTIALITY
CONFLICT OF INTEREST
CONGENITAL DEFECTS
CONSCIENCE
CONSENT FORMS
CONSEQUENCES
CONSTITUTIONAL AMENDMENTS
CONSTITUTIONAL LAW
CONTAINMENT
CONTRACEPTION
CONTRACTS

MESH TERM EQUIVALENT

BLACKS
BLOOD DONORS
BLOOD TRANSFUSION
no map
BONE MARROW
BOOK REVIEW (as checktag)
BRAIN
BRAIN DEATH
BRAIN INJURIES
BURNS
CADAVER
NEOPLASMS
CAPITAL PUNISHMENT
no map
CARCINOGENS
HETEROZYGOTE
CASE REPORT
no map
CENTRAL NERVOUS SYSTEM DISEASES
CHILD ABUSE
LABOR
CHILD
ETHICS
CHROMOSOME ABNORMALITIES
CHRONIC DISEASE
CLERGY
no map
CLONE CELLS
no map
COERCION
COMA
no map
COMMUNICABLE DISEASES
COMMUNICATION
COMMUNISM
COMMUNITY MEDICINE
SOCIAL WELFARE
no map
no map
no map
CONFIDENTIALITY
no map
ABNORMALITIES
CONSCIENCE
INFORMED CONSENT
no map
LEGISLATION
JURISPRUDENCE
CONTAINMENT OF BIOHAZARDS
CONTRACEPTION
no map

BIOETHICS TERM

CONTROL GROUPS
COSTS AND BENEFITS
COUNSELING
CRIMINAL LAW
CRITICALLY ILL
CRYONIC SUSPENSION
CULTURAL EVOLUTION
CULTURAL PLURALISM
CURRICULUM
CYSTIC FIBROSIS
DANGEROUSNESS
DATA BASES
DEATH
DEBRIEFING
DECEPTION
DECISION MAKING
DEHUMANIZATION
DEINSTITUTIONALIZED PERSONS
DEMOCRACY
DENTISTRY
DEONTOLOGICAL ETHICS
DETERMINATION OF DEATH
DEVELOPING COUNTRIES
DIABETES
DIAGNOSIS
DIGNITY
DISADVANTAGED
DISCLOSURE
DISSENT
DOMINANT GENETIC CONDITIONS
DONOR CARDS
DONORS
DOUBLE EFFECT
DOWN'S SYNDROME
DRUG ABUSE
DRUG INDUSTRY
DRUG SCREENING
DRUGS
DUCHENNE MUSCULAR DYSTROPHY
DUE PROCESS
DURATION OF COMMITMENT
EASTERN ORTHODOX ETHICS
ECOLOGY
ECONOMIC VALUE OF LIFE
ECONOMICS
EDITORIAL (as checktag)
EDITORIAL POLICIES
EDUCATION
EEG
ELECTRICAL STIMULATION OF THE BRAIN
ELECTROCONVULSIVE THERAPY

MESH TERM EQUIVALENT

RESEARCH DESIGN
COST BENEFIT ANALYSIS
COUNSELING
CRIMINAL LAW
CRITICAL CARE
no map
CULTURAL EVOLUTION
SOCIAL VALUES
CURRICULUM
CYSTIC FIBROSIS
DANGEROUS BEHAVIOR
INFORMATION SYSTEMS
DEATH
no map
LYING
DECISION MAKING
no map
DEINSTITUTIONALIZATION
DEMOCRACY
DENTISTRY
ETHICS
no map
DEVELOPING COUNTRIES
DIABETES MELLITUS
DIAGNOSIS
no map
SOCIOECONOMIC FACTORS
TRUTH DISCLOSURE
POLITICS
GENES, DOMINANT
no map
TISSUE DONORS
no map
DOWN'S SYNDROME
SUBSTANCE ABUSE
DRUG INDUSTRY
no map
DRUGS
MUSCULAR DYSTROPHY
JURISPRUDENCE
COMMITMENT OF MENTALLY ILL
ETHICS
ECOLOGY
ECONOMIC VALUE OF LIFE
ECONOMICS
no map
no map
EDUCATION
ELECTROENCEPHALOGRAPHY
ELECTRIC STIMULATION
ELECTROCONVULSIVE THERAPY

BIOETHICS TERM

EMBRYO TRANSFER
EMERGENCY CARE
EMPLOYMENT
ENGINEERING
EPIDEMIOLOGY
EQUAL PROTECTION
ETHICAL ANALYSIS
ETHICAL RELATIVISM
ETHICAL REVIEW
ETHICISTS
ETHICS
ETHICS COMMITTEES
ETIOLOGY
EUGENICS
EUTHANASIA
EUTHENICS
EVALUATION
EVOLUTION
EXISTENTIALISM
EXPERT TESTIMONY
EXTRAORDINARY TREATMENT
EYE DISEASES
FAMILY
FAMILY MEMBERS
FAMILY PLANNING
FAMILY PROBLEMS
FAMILY RELATIONSHIP
FAMOUS PERSONS
FATHERS
FEDERAL GOVERNMENT
FEMALES
FERTILITY
FETAL DEVELOPMENT
FETUSES
FINANCIAL SUPPORT
FLUORIDATION
FOOD
FORCE FEEDING
FOREIGN COUNTRIES
FRAUD
FREEDOM
FREEZING
FUTURE GENERATIONS
GENE FREQUENCY
GENE POOL
GENE THERAPY (formerly DNA THERAPY)
GENERALIZATION OF EXPERTISE
GENETIC COUNSELING
GENETIC DEFECTS
GENETIC DIVERSITY

MESH TERM EQUIVALENT

EMBRYO TRANSFER
EMERGENCY MEDICAL SERVICES
EMPLOYMENT
ENGINEERING
EPIDEMIOLOGY
JURISPRUDENCE
ETHICS
ETHICS
no map
no map
ETHICS
no map
no map
EUGENICS
EUTHANASIA
EUTHENICS
EVALUATION STUDIES
EVOLUTION
EXISTENTIALISM
EXPERT TESTIMONY
LIFE SUPPORT CARE
EYE DISEASES
FAMILY
FAMILY
FAMILY PLANNING
no map
FAMILY
FAMOUS PERSONS
FATHERS
GOVERNMENT
WOMEN
FERTILITY
FETUS
FETUS
FINANCING, GOVERNMENT
FLUORIDATION
FOOD
no map
no map
FRAUD
FREEDOM
FREEZING
no map
GENE FREQUENCY
GENE POOL
GENETIC INTERVENTION
no map
GENETIC COUNSELING
HEREDITARY DISEASES
VARIATION (GENETICS)

BIOETHICS TERM

GENETIC FATHERS
GENETIC IDENTITY
GENETIC INTERVENTION
GENETIC MOTHERS
GENETIC SCREENING
GENETICS
GHOST SURGERY
GOALS
GOVERNMENT AGENCIES
GOVERNMENT REGULATION
GROUP DISCUSSION
GROUP THERAPY
HANDICAPPED
HEALTH
HEALTH CARE
HEALTH CARE DELIVERY
HEALTH EDUCATION
HEALTH FACILITIES
HEALTH HAZARDS
HEALTH INSURANCE
HEALTH PERSONNEL
HEART DISEASES
HEARTS
HEDONISM
HEMOPHILIA
HEPATITIS
HEROIN
HISTORICAL ASPECTS
HOMOSEXUALS
HOSPICES
HOSPITALS
HOST MOTHERS
HUMAN CHARACTERISTICS
HUMAN DEVELOPMENT
HUMAN EQUALITY
HUMAN EXPERIMENTATION
HUMAN RIGHTS
HUMANISM
HUMANITIES
HUNTINGTON'S CHOREA
HYBRIDS
HYPERKINESIS
HYPERTENSION
HYPNOSIS
IATROGENIC DISEASE
ILLEGAL ABORTION
IMMUNIZATION
IMPRISONMENT
IN VITRO FERTILIZATION
INCENTIVES

MESH TERM EQUIVALENT

no map
PEDIGREE
GENETIC INTERVENTION
no map
GENETIC SCREENING
GENETICS
no map
GOALS
GOVERNMENT AGENCIES
SOCIAL CONTROL, FORMAL
no map
PSYCHOTHERAPY, GROUP
HANDICAPPED
HEALTH
no map
DELIVERY OF HEALTH CARE
HEALTH EDUCATION
HEALTH FACILITIES
no map
INSURANCE, HEALTH
HEALTH MANPOWER
HEART DISEASES
HEART
PHILOSOPHY
HEMOPHILIA
HEPATITIS
DIACETYLMORPHINE
HISTORY
HOMOSEXUALITY
HOSPICES
HOSPITALS
no map
no map
HUMAN DEVELOPMENT
CIVIL RIGHTS
HUMAN EXPERIMENTATION
HUMAN RIGHTS
HUMANISM
HUMANITIES
HUNTINGTON CHOREA
HYBRIDIZATION
HYPERKINESIS
HYPERTENSION
HYPNOSIS
IATROGENIC DISEASE
ABORTION, CRIMINAL
IMMUNIZATION
no map
FERTILIZATION IN VITRO
MOTIVATION

BIOETHICS TERM

INCIDENCE
INDIGENTS
INDUSTRY
INFANTICIDE
INFANTS
INFLUENZA
INFORMAL SOCIAL CONTROL
INFORMATION DISSEMINATION
INFORMED CONSENT
INJURIES
INSTITUTIONAL OBLIGATIONS
INSTITUTIONAL POLICIES
INSTITUTIONALIZED PERSONS
INSULIN
INSURANCE
INTELLIGENCE
INTENSIVE CARE UNITS
INTENTION
INTERDISCIPLINARY COMMUNICATION
INTERNATIONAL ASPECTS
INTERNSHIP AND RESIDENCY
INVESTIGATOR SUBJECT RELATIONSHIP
INVESTIGATORS
INVOLUNTARY COMMITMENT
INVOLUNTARY EUTHANASIA
INVOLUNTARY STERILIZATION
ISLAMIC ETHICS
JEHOVAH'S WITNESSES
JEWISH ETHICS
JEWS
JOURNALISM
JUDICIAL ACTION
JUSTICE
JUSTIFIABLE KILLING
KARYOTYPING
KIDNEY DISEASES
KIDNEYS
KILLING
LAW
LAW ENFORCEMENT
LEGAL ASPECTS
LEGAL GUARDIANS
LEGAL LIABILITY
LEGAL OBLIGATIONS
LEGAL RIGHTS
LEGISLATION
LEGITIMACY
LETTER (as checktag)
LEUKEMIA
LIFE EXTENSION

MESH TERM EQUIVALENT

MORBIDITY
POVERTY
INDUSTRY
INFANTICIDE
INFANT
INFLUENZA
SOCIAL CONTROL, INFORMAL
INFORMATION SERVICES
INFORMED CONSENT
no map
ETHICS, INSTITUTIONAL
no map
no map
INSULIN
INSURANCE
INTELLIGENCE
INTENSIVE CARE UNITS
no map
no map
no map
INTERNSHIP AND RESIDENCY
no map
RESEARCH PERSONNEL
COMMITMENT OF MENTALLY ILL
EUTHANASIA
STERILIZATION, INVOLUNTARY
ETHICS
CHRISTIANITY
ETHICS
JEWS
no map
JURISPRUDENCE
SOCIAL JUSTICE
no map
KARYOTYPING
KIDNEY DISEASES
KIDNEY
HOMICIDE
JURISPRUDENCE
no map
no map
LEGAL GUARDIANS
no map
no map
CIVIL RIGHTS
LEGISLATION
ILLEGITIMACY
no map
LEUKEMIA
no map

BIOETHICS TERM

LIFE INSURANCE
LITERATURE
LIVING WILLS
LOVE
LSD
MALES
MALPRACTICE
MANDATORY PROGRAMS
MARITAL RELATIONSHIP
MARRIED PERSONS
MASS MEDIA
MASS SCREENING
MATERNAL HEALTH
MATERNAL LIFE
MEDICAL DEVICES
MEDICAL EDUCATION
MEDICAL ETHICS
MEDICAL ETIQUETTE
MEDICAL FEES
MEDICAL RECORDS
MEDICAL STAFF
MEDICINE
MENTAL HEALTH
MENTAL INSTITUTIONS
MENTALLY HANDICAPPED
MENTALLY ILL
MENTALLY RETARDED
METABOLIC DISEASES
METAETHICS
METHODS
MICROBIOLOGY
MILITARY PERSONNEL
MINORITY GROUPS
MINORS
MISCONDUCT
MODEL LEGISLATION
MORAL OBLIGATIONS
MORAL POLICY
MORALITY
MORBIDITY
MORTALITY
MOTHER CHILD RELATIONSHIP
MOTHER FETUS RELATIONSHIP
MOTHERS
MOTIVATION
MUNICIPAL GOVERNMENT
MUTATION
NATIONAL HEALTH INSURANCE
NATIONAL SOCIALISM
NATURAL LAW

MESH TERM EQUIVALENT

INSURANCE, LIFE
LITERATURE
WILLS
LOVE
LYSERGIC ACID DIETHYLAMIDE
MEN
MALPRACTICE
COERCION
MARRIAGE
MARRIAGE
MASS MEDIA
MASS SCREENING
no map
no map
EQUIPMENT AND SUPPLIES
EDUCATION, MEDICAL
ETHICS, MEDICAL
no map
FEES, MEDICAL
MEDICAL RECORDS
MEDICAL STAFF
MEDICINE
MENTAL HEALTH
HOSPITALS, PSYCHIATRIC
no map
MENTAL DISORDERS
MENTAL RETARDATION
METABOLIC DISEASES
ETHICS
METHODS
MICROBIOLOGY
MILITARY PERSONNEL
MINORITY GROUPS
ADOLESCENCE
no map
LEGISLATION
SOCIAL RESPONSIBILITY
ETHICS
MORALS
MORBIDITY
MORTALITY
MOTHER-CHILD RELATIONS
no map
MOTHERS
MOTIVATION
MUNICIPAL GOVERNMENT
MUTATION
NATIONAL HEALTH PROGRAMS
no map
no map

BIOETHICS TERM

NATURAL RESOURCES
NATURAL SELECTION
NEGATIVE EUGENICS
NEGATIVE REINFORCEMENT
NEGLIGENCE
NEURAL TUBE DEFECTS
NEWBORNS
NONTHERAPEUTIC RESEARCH
NORMALITY
NORMATIVE ETHICS
NUCLEAR ENERGY
NUCLEAR WARFARE (formerly ATOMIC WARFARE)
NURSE MIDWIVES
NURSES
NURSING EDUCATION
NURSING ETHICS
NURSING HOMES
NUTRITION
OBLIGATIONS OF SOCIETY
OBLIGATIONS TO SOCIETY
OBSTETRICS AND GYNECOLOGY
OCCUPATIONAL DISEASES
OCCUPATIONAL MEDICINE (formerly
INDUSTRIAL MEDICINE)
OPERANT CONDITIONING
OPHTHALMOLOGY
ORGAN DONATION
ORGAN DONORS
ORGAN TRANSPLANTATION
ORGANIZATIONAL POLICIES
OVUM
OVUM DONORS
PAIN
PARENT CHILD RELATIONSHIP
PARENTAL CONSENT
PARENTS
PATENTS
PATERNALISM
PATIENT ACCESS
PATIENT ADVOCACY
PATIENT CARE
PATIENT PARTICIPATION
PATIENTS
PATIENTS' RIGHTS
PEDIATRICS
PEER REVIEW
PERINATOLOGY
PERSONALITY
PERSONHOOD
PHARMACISTS
PHENYLKETONURIA

MESH TERM EQUIVALENT

CONSERVATION OF NATURAL RESOURCES
SELECTION (GENETICS)
EUGENICS
REINFORCEMENT (PSYCHOLOGY)
MALPRACTICE
NEURAL TUBE DEFECTS
INFANT, NEWBORN
no map
no map
ETHICS
NUCLEAR ENERGY
NUCLEAR WARFARE
NURSE MIDWIVES
NURSES
EDUCATION, NURSING
ETHICS, NURSING
NURSING HOMES
NUTRITION
SOCIAL RESPONSIBILITY
SOCIAL RESPONSIBILITY
no map
OCCUPATIONAL DISEASES
OCCUPATIONAL MEDICINE

CONDITIONING, OPERANT
OPHTHALMOLOGY
TISSUE DONORS
TISSUE DONORS
TRANSPLANTATION
no map
OVUM
TISSUE DONORS
PAIN
PARENT-CHILD RELATIONS
INFORMED CONSENT
PARENTS
PATENTS
PATERNALISM
no map
PATIENT ADVOCACY
no map
PATIENT PARTICIPATION
PATIENTS
PATIENT ADVOCACY
PEDIATRICS
PEER REVIEW
PERINATOLOGY
PERSONALITY
no map
PHARMACISTS
PHENYLKETONURIA

BIOETHICS TERM

PHILOSOPHY
PHYSICAL CONTAINMENT
PHYSICALLY HANDICAPPED
PHYSICIAN NURSE RELATIONSHIP
PHYSICIAN PATIENT RELATIONSHIP
PHYSICIAN'S ROLE
PHYSICIANS
PLACEBOS
PLACENTAS
POLIOMYELITIS
POLITICAL ACTIVITY
POLITICAL SYSTEMS
POLITICS
POPULATION CONTROL
POPULATION DISTRIBUTION
POPULATION GROWTH
POSITIVE EUGENICS
POSITIVE REINFORCEMENT
POVERTY
PRECONCEPTION INJURIES
PREGNANT WOMEN
PREMATURITY
PRENATAL DIAGNOSIS
PRENATAL INJURIES
PREVENTIVE MEDICINE
PRISONERS
PRIVACY
PRIVATE HOSPITALS
PRIVILEGED COMMUNICATION
PRODUCTS OF IN VITRO FERTILIZATION
PROFESSIONAL COMPETENCE
PROFESSIONAL ETHICS
PROFESSIONAL ORGANIZATIONS
PROFESSIONAL PATIENT RELATIONSHIP
PROGNOSIS
PROGRAM DESCRIPTIONS
PROLONGATION OF LIFE
PROPERTY RIGHTS
PROTESTANT ETHICS
PROTESTANTISM
PSYCHIATRIC DIAGNOSIS
PSYCHIATRY
PSYCHOACTIVE DRUGS
PSYCHOLOGICAL STRESS
PSYCHOLOGY
PSYCHOSURGERY
PSYCHOTHERAPY
PUBLIC ADVOCACY
PUBLIC HEALTH
PUBLIC HOSPITALS

MESH TERM EQUIVALENT

PHILOSOPHY
CONTAINMENT OF BIOHAZARDS
HANDICAPPED
INTERPROFESSIONAL RELATIONS
PHYSICIAN-PATIENT RELATIONS
PHYSICIAN'S ROLE
PHYSICIANS
PLACEBOS
PLACENTA
POLIOMYELITIS
POLITICS
POLITICAL SYSTEMS
POLITICS
POPULATION CONTROL
DEMOGRAPHY
POPULATION GROWTH
EUGENICS
REINFORCEMENT (PSYCHOLOGY)
POVERTY
no map
PREGNANCY
INFANT, PREMATURE
PRENATAL DIAGNOSIS
no map
PREVENTIVE MEDICINE
PRISONERS
no map
HOSPITALS, PROPRIETARY
CONFIDENTIALITY
FERTILIZATION IN VITRO
PROFESSIONAL COMPETENCE
ETHICS, PROFESSIONAL
no map
PROFESSIONAL-PATIENT RELATIONS
PROGNOSIS
no map
LIFE SUPPORT CARE
CIVIL RIGHTS
ETHICS
CHRISTIANITY
MENTAL DISORDERS
PSYCHIATRY
PSYCHOTROPIC DRUGS
STRESS, PSYCHOLOGICAL
PSYCHOLOGY
PSYCHOSURGERY
PSYCHOTHERAPY
CONSUMER ADVOCACY
PUBLIC HEALTH
HOSPITALS

BIOETHICS TERM

PUBLIC OPINION
PUBLIC PARTICIPATION
PUBLIC POLICY
PUNISHMENT
QUALITY CONTROL
QUALITY OF LIFE
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SELECTIVE ABORTION
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MESH TERM EQUIVALENT

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RADIOLOGY
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RELIGION
ETHICS
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REPRODUCTION
no map
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RESUSCITATION
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SCIENCE
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no map
ABORTION, EUGENIC
SELF CONCEPT
FREEDOM
no map
no map

BIOETHICS TERM

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SEX DETERMINATION
SEX LINKED DEFECTS
SEX OFFENSES
SEX PRESELECTION
SEX RATIO
SEXUALITY
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SOCIETY
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TECHNOLOGY ASSESSMENT
TELEOLOGICAL ETHICS
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THEOLOGY
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THERAPEUTIC RESEARCH
THIRD PARTY CONSENT
TISSUE BANKING
TORTS
TORTURE
TOTALITY
TOXICITY
TRADE SECRETS
TRAFFIC ACCIDENTS
TRANSPLANT RECIPIENTS
TRANSPLANTATION
TRANSSEXUALISM
TREATMENT REFUSAL
TRUST
TWINNING
UNIVERSITIES
UNWANTED CHILDREN
UTILITARIANISM
VALUE OF LIFE
VALUES
VENEREAL DISEASES
VIABILITY
VIOLENCE
VOLUNTARY ADMISSION
VOLUNTARY EUTHANASIA
VOLUNTARY PROGRAMS
VOLUNTARY STERILIZATION
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WEDGE ARGUMENT
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WITHHOLDING TREATMENT

MESH TERM EQUIVALENT

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no map
SYPHILIS
DYSKINESIA, DRUG-INDUCED
TAY-SACHS DISEASE
TEACHING
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TECHNOLOGY ASSESSMENT, BIOMEDICAL
ETHICS
EPILEPSY, TEMPORAL LOBE
TERMINAL CARE
TERMINAL CARE
THALASSEMIA
RELIGION
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TORTURE
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VIOLENCE
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WAR
no map
WHITES
no map

BIOETHICS TERM

WOMEN'S RIGHTS
WRONGFUL DEATH
WRONGFUL LIFE
X BEARING SPERM
XYY KARYOTYPE
Y BEARING SPERM
ZYGOTE

MESH TERM EQUIVALENT

WOMEN'S RIGHTS
no map
no map
X CHROMOSOME
XYY KARYOTYPE
Y CHROMOSOME
ZYGOTE

APPENDIX B

4.13 DEFAULT ELEMENTS TABLE (elements searched when fields are not specified)

DATABASE	ONLINE SEARCH and OFFSEARCH DEFAULTS	STRINGSEARCH or SENSEARCH DEFAULTS	RANGING DEFAULTS	ELEMENTS FROM WHICH TEXT WORDS ARE TAKEN
AVLINE	All directly searchable fields (e.g., PN, CN, MH) except TW	AB	DA	TC, TL, UT, UTS, TI, CE, PE, SE, PS, CS, CN, AB, AS, CNA, PN
BIOETHICS	All directly searchable fields (e.g., MH, AU) except KW, TW	TI	UI	TI, CN
CANCERLIT	All directly searchable fields (e.g., AU, PT) except MH, KW, TF	AB	YR	TI, AB
CANCERPROJ	No default - receive Multi-Meaning message for any unspecified term	AB	EM	TI, AB, HT
CATLINE	All directly searchable fields (e.g., PN, CN, MH) except TW	AB	DA	TI, CE, PE, SE, AS, KW, PN, PS, UA, UT, UTS, CS, CN, CNA
CHEMLINE	No default - receive Multi-Meaning message for any unsecified term	NI	No ranging allowed	Not applicable*
CLINPROT	No default - receive Multi-Meaning message for any unspecified term	TI	FY	TI, AB, HT
EPILEPSY	No default - receive Multi-Meaning message for any unspecified term	AB	YR	TI, AB, KW
HEALTH	All directly searchable fields (e.g., MH, AU) except TW, TA, JC, NM, NF	TI	DA	TI, AB
HISTLINE	All directly searchable fields (e.g., KW, KS, TP, CY) except TW, TA	TI	DA	TI
MEDLINE MED79 MED77 MED75 MED72 MED69 MED66	All directly searchable fields (e.g., AU, MH) except TW, TA, JC, PX, NM, NF	TI	DA	TI, AB

*Name fragments are generated from NI, SY

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DEFAULT ELEMENTS TABLE (elements searched when fields are not specified)

DATABASE	ONLINE SEARCH and OFFSEARCH DEFAULTS	STRINGSEARCH or SENSEARCH DEFAULTS	RANGING DEFAULTS	ELEMENTS FROM WHICH TEXT WORDS ARE TAKEN
MESH VOCABULARY	All directly searchable fields (e.g., MH, SH) except TW	DE	DA	AN, BX, HN, MH OL, PI, PM, MS, EC
NAME AUTHORITY	No default - receive Multi-Meaning message for any unqualified term	NO	DA	NA, SE, A1, NQ
POPLINE	All directly searchable fields (e.g., MH, AU) except TW, KW, JC, TA	TI	DA	AB, CN, GN, MI, SE, TI, TJ
RTECS	All directly searchable fields (e.g., SY, IX) except CW	TDKW	No ranging allowed	CDEF, AQ, TR, SR,* NC, ST
SDILINE	All directly searchable fields (e.g., AU, MH) except TW, TA, JC, PX, NM, NF	TI	DA	TI, AB
SERLINE	No default - receive Multi-Meaning message for any unspecified term	TI	IA	TI, PU, AT, L1-L11
TDB	No default - receive Multi-Meaning message for any unsecified term	NM	No ranging allowed	Not applicable*
TOXLINE TOXBACK74 TOXBACK65	All directly searchable fields (e.g., TW, AU) except KW	AB	YR	TI, AB, KW

*Name fragments are generated from N1, SY

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Please insert in the Index of the 1982 edition
of the NLM Online Services Reference Manual
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study group names, list (Appendix B) 25.8
unit record 25.3
updates 25.1

If you are using an NLM Training Code, the computer will type out:

ENTER CURRENT PASSWORD FOR TRN##
:

After the colon type LEARN (LEARN is the password for training codes). Press 'carriage return'. Proceed to the instructions below.

The computer will respond:

: LOGON IN PROGRESS AT (time) ON (date)

DO YOU WANT MEDLEARN ENTER YES OR NO:

Type YES after the colon and press 'carriage return'. You are now connected to MEDLEARN.

20.3.2 TYMNET LOGON

Turn terminal on, set duplex switch to FULL, select 10 or 30 characters per second (cps) speed. If you are using a 120 cps terminal you may also use these instructions, just be sure you have a TYMNET telephone number for 120 cps that is compatible with your equipment. If you have an "online" switch, make sure it is set to "online".

Dial the appropriate TYMNET telephone number, listen for the high-pitched tone and place the telephone receiver in the acoustic coupler on the terminal or attached to it. Make sure the part of the receiver with the telephone cord is placed in the correct end of the coupler.

Note: Users with an IBM 2741 terminal: When you are connected to the computer, you must type the letter P and press 'carriage return' at this point, then proceed. The message PLEASE TYPE YOUR TERMINAL IDENTIFIER will not appear; proceed directly to PLEASE LOG IN: below.

The computer will respond with:

PLEASE TYPE YOUR TERMINAL IDENTIFIER
(Note: If your terminal operates at 10 cps, this message will look "garbage" - type the identifier D in response.)

PLEASE LOG IN:

PASSWORD:

PLEASE ENTER /LOGIN

User should:

Type in the correct identifier from the list in PART 3. DO NOT press 'carriage return'.

Type NLM or NLM2 and press 'carriage return'.

Type BCN and press 'carriage return'. (This may not print out on your paper or screen.)

Type /LOGIN and press 'carriage return'.

Proceed from this point as described in 20.3.1 DIRECT DIAL LOGON.

20.3.3 TELENET LOGON

Turn terminal on, set duplex switch to FULL, select 10 or 30 characters per second (CPS) speed. If you are using 120 cps equipment you may also use these instructions, just be sure you have a TELENET telephone number for 120 cps that is compatible with your terminal. If you have an "online" switch, be sure it is set to "online".

Dial the appropriate TELENET telephone number, listen for the high-pitched tone and place the receiver in the acoustic coupler on the terminal or attached to it. Make sure the part of the receiver with the telephone cord is placed in the correct end of the coupler.

When the "online light" or "carrier detect" light lights up, press the 'carriage return' two (2) times immediately. Note: Users with an IBM 2741 Terminal should type a period (.) and press one 'carriage return'.

The computer will respond with:

TELENET
202 8N
TERMINAL=

@

301 20 CONNECTED

User should:

Press 'carriage return'.
If a specific identifier
is needed, consult the
list in PART 3.

Type C 301 20 and press
'carriage return'.

Type /LOGIN and press
'carriage return'.

Proceed from this point as described in 20.3.1 DIRECT DIAL LOGON.

HISTLINE

22.10 APPENDIX E

List of searchable Geographic Areas (CY)

Afghanistan	Ecuador
Africa	Egypt <u>see also</u> United Arab Republic
Algeria	El Salvador
Americas	England <u>use</u> Great Britain
Angola	Ethiopia
Arabic	Europe
Arctic Regions	Finland
Argentina	France
Armenia	French Guiana
Ascension Island	Gabon
Asia	Gambia
Assyria	Germany
Australia	Ghana
Austria	Great Britain
Babylon	Greco-Roman
Bahrain	Greece
Bangladesh	Guatemala
Barbados	Guinea
Belgium	Guyana <u>see also</u> British
Belize	Guiana
Benelux	Haiti
Bolivia	Hawaii <u>use</u> United States
Brazil	Honduras
British Guiana <u>see also</u> Guyana	Hong Kong
British Honduras <u>use</u> Belize	Hungary
Bulgaria	Iceland
Burma	India
Burundi	Indonesia
Byzantium	Iran
Cambodia	Iraq
Cameroon	Ireland
Canada	Israel
Caribbean	Italy
Ceylon <u>use</u> Sri Lanka	Ivory Coast
Chile	Jamaica
China	Japan
Colombia	Jordan
Congo	Kenya
Congo (Brazzaville) <u>see also</u>	Korea
People's Republic of the Congo	Kuwait
Costa Rica	Laos
Cuba	Lebanon
Czechoslovakia	Liberia
Denmark	Libya
Dominican Republic	Liechtenstein
Dutch Guiana	

Luxembourg
Malagasy Republic
Malawi
Malaysia
Mali
Malta
Martinique
Mauritania
Mauritius
Mesopotamia
Mexico
Middle East
Mongolia
Morocco
Multinational
Nepal
Netherlands
Netherlands Antilles
New Guinea
New Zealand
Nicaragua
Nigeria
North America
Norway
Pacific Islands
Pakistan
Panama
Papua New Guinea
Paraguay
People's Republic of the Congo
see also Congo (Brazzaville)
Peru
Philippines
Poland
Polynesia
Portugal
Puerto Rico
Rhodesia use Zimbabwe
Romania use Rumania
Rome
Rumania
Rwanda

Saudi Arabia
Scandinavia
Senegal
Sierra Leone
Singapore
South Africa
South America
South-East Asia
Spain
Sri Lanka
Sudan
Sumer
Sweden
Switzerland
Syria see also United
Arabic Republic
Taiwan
Tanzania
Thailand
Tibet use China
Trinidad
Tunisia
Turkey
Uganda
United Arab Republic
see also Egypt
see also Syria
United States
Upper Volta
Uruguay
USSR
Vatican
Venezuela
Vietnam
West Indies
Western Samoa
Yemen
Yugoslavia
Zaire
Zambia
Zimbabwe

INSTRUCTIONS

The following Index entry replaces the BIOETHICS Index entry found on pages 704-705. Please insert after page 704. Note that no attempt was made to correct the various references to BIOETHICS throughout the rest of the Index.

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THE NLM TECHNICAL BULLETIN

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November 1982

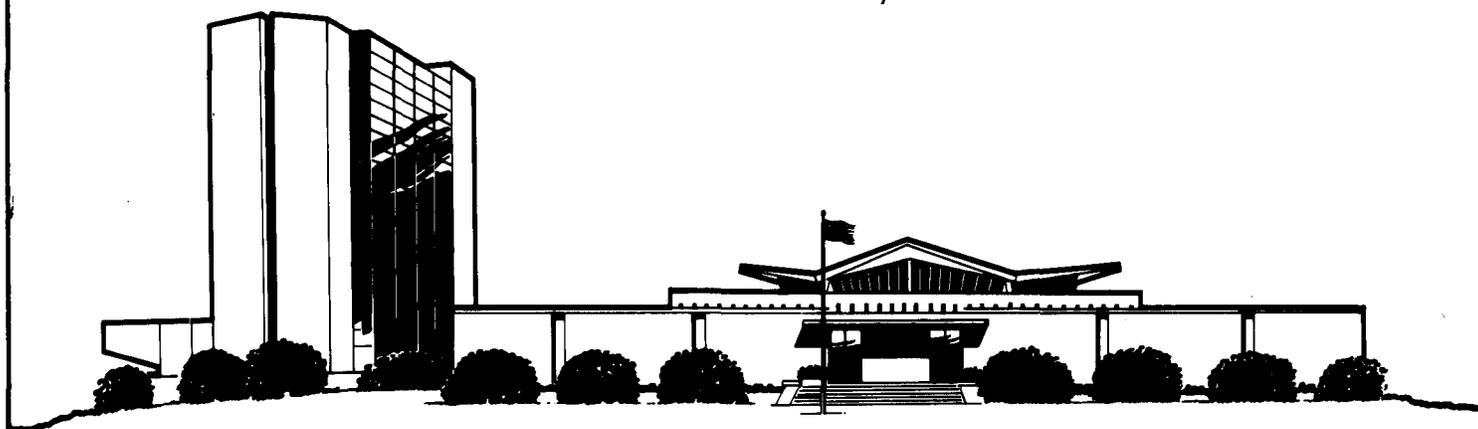
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- 7 A New Version of CHEMLINE
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Tumor Key Errata



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DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
AVLINE	11,241	THROUGH 1982	17 DEC 82	
BIOETHICS	13,838	JAN 73-FEB 82	22 NOV 82	8211(EM)
CANCERLIT	325,001	JAN 63-NOV 82	24 NOV 82	8211(EM)
CANCERPROJ	21,117	1978-1981	12 NOV 81	8110(EM)
CATLINE	473,850	THROUGH 1982	17 DEC 82	
CHEMLINE	545,591		08 NOV 82	8211(EM)
CLINPROT	3,407		01 NOV 82	8210(EM)
EPILEPSY	36,472	1945-PRESENT	20 OCT 80	
HEALTH	219,713	JAN 75-JAN 83	13 DEC 82	8301(EM)
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MEDLINE	672,888	JAN 80-JAN 83	13 DEC 82	8301(EM)
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POPLINE	106,591	1970-DEC 82	13 DEC 82	8212(EM)
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SDILINE	22,359	JAN 83	13 DEC 82	
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TOXLINE	506,247		22 NOV 82	8211(EM)
CBAC	252,172	1979-VOL 97(8-10)		
TOXBIB	85,702	1979-DEC 82		
IPA (ASHP)	15,978	1979-VOL 19(13,14)		
HEEP	40,290	1979-VOL 11(12)		
PESTAB	8,209	1979-VOL 14(DEC 81)		
EMIC	35,996	1950-SEP 82		
ETIC	25,995	1950-OCT 82		
RPROJ	28,306	1979-FEB 82		
TD3	13,723	GRA & I 82(17-27)		
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CBAC	265,253	1974-1978		
TOXBIB	103,386	1974-1978		
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HEEP	61,871	1974-1978		
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TOXBIB	112,170	1968-1973		
IPA	21,973	1969-1973		
HEEP	29,662	1970-1973		
HAPAB/PESTAB	12,966	1968-1973		
HAYES	10,039	1940-1968		
TMIC	4,552	1940-1973		

* = AVAILABLE ONLY THRU OFFSEARCH

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TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the 1982 Online Services Reference Manual 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.

OFFLINE or OFFSEARCH PRINTOUTS - Effective December 13, 1982, OFFSEARCH and OFFLINE printouts from the MEDLINE backfiles will have the following names printed in the line "THIS SEARCH WAS PERFORMED on the DATABASE NAME FILE":

BACK77	for the backfile MED77
BACK75	for the backfile MED75
BACK71	for the backfile MED71
BACK66	for the backfile MED66

ALIASES FOR BACKFILES (Manual 5.1.2.1) - Effective December 13, 1982, any of the following aliases may be used for the MEDLINE backfiles when issuing a FILE command or an EXPLAIN command, or when entering file names in response to the computer query FILES? in an OFFSEARCH:

MED77	BACK77	M77	B77
MED75	BACK75	M75	B75
MED71	BACK71	M71	B71
MED66	BACK66	M66	B66

The aliases M77, M75, M71, M66 are new to the system; the other aliases were previously available.

HEALTH FILE DATA ELEMENT DELETIONS (Manual 23.4.19, 23.4.23) - Effective December 13, 1982, the date when the 1983 HEALTH PLANNING & ADMINISTRATION database became available, the following data elements were deleted from the database and are no longer available for searching:

1. CAS Registry Number/EC Number (RN)
2. Name of Substance (NM)
3. Name Fragments (NF)

This change affects the HEALTH file only. Prospective MEDLINE data input into the HEALTH file will also have these fields deleted. The MEDLINE file, however, retains these fields for searching appropriate records.

EPILEPSYLINE TO BE DISCONTINUED AT NLM (MANUAL 19+) - NLM expects to remove EPILEPSYLINE from its computer on or about January 1, 1983. The National Institute for Neurological and Communicative Disorders and Stroke (NINCDS) plans to make the database available on BRS. For further information, please contact: Epilepsy Branch, NINCDS; Federal Building, Room 114; 9000 Wisconsin Avenue; Bethesda, Maryland 20205 - (301/496-9725).

TOXBACK65 - Reminder: TOXBACK65 is still available only through
 AVAILABLE THROUGH OFFSEARCH; it is not available online at any time.
 OFFSEARCH ONLY
 (Manual 12.4)

SAVE/SAVESEARCH - With the availability of the MEDLINE backfiles online,
 RULES users are encouraged to use the SAVE/SAVESEARCH commands
 (Manual 5.3+) when searching across the backfiles for a specific concept.
 This will help reduce online connect time charges and will
 save the user the \$1.00 per file per OFFSEARCH charge
 instituted October 1, 1982.

Before using the SAVE/SAVESEARCH commands, users should
 review Part 5.3 of the Online Services Reference Manual,
 1982, particularly the rules for naming, saving, and
removing saved searches. Users are also reminded of
 the following:

1. Always issue a SAVE LIST command before saving new searches to ascertain the amount of free space left in the SAVE or SAVESEARCH area. If there is 10% free space or less left, additional saved searches must not be stored until some older saved searches have been deleted. Failure to observe this rule may result in the temporary destruction of the UUSF (Unified User Specification File), the file that allows a user to access the system.
2. When removing saved searches of either type, instruct the system to delete them one at a time.
3. Avoid STRINGSEARCHing in SAVE and SAVESEARCH. Instead, use direct and, if possible, positive combinations, e.g., AND ENG (LA). Using more than one STRINGSEARCH in a saved search can yield incorrect retrieval results, especially when STRINGSEARCHing a search statement that is itself the result of a STRINGSEARCH.
4. If using a SAVESEARCH within a SAVESEARCH, never use a STRINGSEARCH in either SAVESEARCH.
5. When saving more than one search in a session, either begin each new saved search with a SAVESEARCH command, or use ERASEALL between SAVE operations. In this way, your saved search will begin at SS 1 with only the terms intended to be included.
6. Due to certain differences between MEDLINE and some of the older backfiles, it is recommended that SAVESEARCHes be constructed and saved in the front file and then used in reverse chronological order (i.e., MEDLINE, MED77, MED75, MED71, MED66).

ADDITIONS TO TOXICITY DATA INDEX STRINGS IN RTECS (Manual 14.4.12.1, 14.4.12.2) - The following terms are now available in RTECS for searching the Toxicity Data Index Strings (IX) field:

<u>Search Term</u>	<u>Controlled Vocabulary Category</u>
Intratesticular	Routes (Table I)
Mutation test unspecified	Mutagenic Tests (Table IV)
Headache	General Toxic Effects (Table II)
Fish	Species (Table I)
Horse	Species (Table I)
Non-mammal, nos	Species (Table I)

In addition, RTECS now reports in the Status (ST) field if a substance meets the criteria for toxic substances as defined for the proposed OSHA (Occupational Safety and Health Administration) Medical Records Rule.

CLINPROT/PDQ UPDATE FREQUENCY (Manual 25+) - Users are reminded that since the PDQ database is updated monthly, while the CLINPROT database is updated quarterly, there will occasionally be protocols in PDQ that cannot yet be found in CLINPROT. Eventually, all PDQ protocols will appear in CLINPROT, the larger of the two databases. The PDQ database is closely related to the CLINPROT database; however, PDQ contains only active, NCI-supported protocols from CLINPROT. Please see the article titled, "PDQ: A NEW NCI DATABASE" in the September 1982 Technical Bulletin, p. 6, for further details on PDQ.

ADDRESSES FOR OFFLINE AND OFFSEARCH PRINTS (Manual 4.9.16.8, 4.9.16.8.1, 5.1.2.3, 5.1.4) - When requesting OFFLINE or OFFSEARCH prints, please be sure to follow carefully the mailing information procedures to ensure proper and prompt delivery of search results; there are only three (3) lines available for the address. Users who previously did most of their searching at SUNY, and who used a Stored Address for OFFPRINTS, are reminded to verify that their address is properly stored on the NLM computer. This may be done by issuing the PROFILE LIST command. Modifications to the Stored Address may be made using the PROFILE MODIFY command. (See Part 4.9.17 of the Online Services Reference Manual for specific instructions.)

If a Stored Address is in effect for your User ID code, and you wish to override this address for a particular print-out, enter MAIL = PROMPT after the REQUESTER'S NAME OR SAME query of the OFFLINE print or OFFSEARCH procedure. This will cause the computer to prompt you on this one-time basis, for NAME, ADDRESS, CITSTAZIP. For example:

```

REQUESTER'S NAME OR SAME
USER:
MAIL = PROMPT

PROG:
NAME?
:
:
ADDRESS?
:
:
CITSTAZIP?
:
:
REQUESTER'S NAME OR SAME-
    
```

Additionally, you may correct or prespecify mailing information by using the keywords NAME, ADDRESS, or CITSTAZIP after any USER cue during the mailing information dialogue of an OFFSEARCH or OFFLINE print.

- PDQ FREE CONNECT TIME - Free connect time for the PDQ database has been extended until the end of March 1983. Offline prints and off-searches can now be done on this database. Offsearches are charged at \$1.00 per file; pages for PDQ are \$.18 each.
- MANUAL REPLACEMENT PAGES - Replacement pages for the 1982 edition of the Online Services Reference Manual are enclosed with this issue. Please insert these pages in the appropriate chapters.
- INDEXING TECHNICAL NOTES - Indexing Technical Note Number 231 (revised) is enclosed with this issue.
- TUMOR KEY ERRATA - Enclosed with this issue are errata to the publication Technical Notes: MEDLARS Indexing Instructions, Tumor Key Supplement, 1982. This publication is available from the National Technical Information Service (NTIS), without corrections, for \$7.50 (PB82-242208).

PLEASE TYPE NEWS TO SEE THE MOST RECENT NEWS ITEMS ONLINE

A NEW VERSION OF CHEMLINE
 George F. Hazard, Jr., Ph.D., and Melvin L. Spann, Ph.D.,
 Specialized Information Services, NLM

In January 1983, a modified CHEMLINE file will be made available to the NLM user community at a substantially reduced cost. In order to retain a valuable chemical dictionary service at a more affordable price level, NLM negotiated with Chemical Abstracts Service (CAS) to modify the CHEMLINE content in a manner that would allow reduced royalties. These negotiations were predicated on the belief that considerable cost savings to the users of CHEMLINE and to NLM could be achieved without significant degradation of the utility of this service.

Beginning in January, the content of CHEMLINE no longer will be derived from the CAS Registry Nomenclature and Structure Service (RNSS). Instead, CAS Registry Numbers, molecular formulas, and systematic chemical names will be taken from the CAS bibliographic files (CBAC and CA SEARCH) that NLM is licensed to use for TOXLINE content. In addition, synonyms will be derived from the CA Index Guide.

This approach to the restructuring of CHEMLINE means that the CHEMLINE royalties paid to CAS will be based on CBAC, CA SEARCH and the CA Index Guide rates rather than the RNSS rates. This will result in a CAS royalty charge reduction from \$78.97 to \$32.48 per online connect hour for CHEMLINE usage. The new online connect charge will be \$54/hour for prime time and \$47/hour non-prime. The NLM portion of these costs is \$22/hour and \$15/hour respectively.

The second impact of the restructured file will be on the number of synonyms carried for each substance in CHEMLINE. The RNSS contains all non-systematic names indexed by CAS since 1965. However, the CA Index Guide contains non-systematic names in common usage. Therefore, the new CHEMLINE file will carry fewer synonyms and will reflect "common usage" terminology.

To illustrate the impact of the CHEMLINE content change, current CHEMLINE records are shown below for aniline and Naproxen. Also shown are (1) data that will be retained in the new CHEMLINE file, (2) the number of relevant postings in TOXLINE for each identifier, and (3) TOXLINE postings for synonyms that are not retrieved by the Registry Number (RN) search.

		<u>ANILINE</u>		
	<u>Current CHEMLINE Data</u>	<u>New CHEMLINE Data</u>	<u>Relevant TOXLINE Postings</u>	<u>Non-RN TOXLINE Postings</u>
RN	- 62-53-3	Y	452	-
NI	- Benzenamine (9CI)	Y	0	0
SY	- Aniline (8CI)	Y	342	82
SY	- Aminobenzene	-	2	0
SY	- Aminophen	-	1	1
SY	- Anyvim	-	0	0
SY	- Benzene, amino	Y	3	0
SY	- Blue Oil	-	0	0
SY	- C.I. 76000	-	0	0
SY	- Phenylamine	Y	1	1

Y = retained in the new CHEMLINE
 - = not retained in the new CHEMLINE

NAPROXEN

Current CHEMLINE Data	New CHEMLINE Data	Relevant TOXLINE Postings	Non-RN TOXLINE Postings
RN - 22204-53-1	Y	231	-
NI - 2-Naphthaleneacetic acid, 6-methoxy-alpha-methyl-, (S)- (9CI)	Y	0	0
SY - 2-Naphthaleneacetic acid, 6-methoxy-alpha-methyl-, (+)- (8CI)	Y	1	0
SY - CG 3117	Y	0	0
SY - Equiproxen	Y	1	0
SY - Naprosyn	Y	11	4
SY - Naproxen	Y	299	97
SY - d-Naproxen	-	0	0

In the aniline example, ORing the current CHEMLINE data in TOXLINE results in the retrieval of 536 relevant citations. The same search performed on the new CHEMLINE (with passage of the data to TOXLINE) would result in the retrieval of 535 relevant TOXLINE citations. In the second example, a similar strategy would result in the retrieval of the same TOXLINE citations.

As can be seen from these two examples, the new CHEMLINE will retain the synonyms most useful for optimizing the retrieval of TOXLINE citations. The CAS Registry Number, which is the most valuable chemical retrieval term for use in TOXLINE, will continue to be available and will be kept current by CAS. In both examples shown, the CAS Registry number and one synonym retrieved the majority of citations, and in each case these data are retained in the new CHEMLINE. Although experience has shown that highly posted names such as 'aniline' are also the ones used most often to retrieve a CHEMLINE record, we recognize the loss of such names as 'Blue Oil' which are occasionally presented to searchers, but will no longer be available in CHEMLINE.

Starting in 1983, we plan to augment the new Index Guide content with non-systematic names obtained from a variety of other authoritative sources. These names will be sought from sources that would allow retention of the new charge levels in CHEMLINE.

All data elements, fragmentation rules, and print formats now used in CHEMLINE will be retained in the new version, allowing continuity in searching capabilities.

We are pleased to be able to offer the same type of quality chemical data that has been available in the past to NLM searchers, and look forward to your comments and suggestions concerning these changes in price and content.

Fall 1982 Update for the Toxicology Data Bank (TDB)
 Carol B. Haberman, M.S., M.P.A.
 Dorothy L. Moore, M.S.
 Specialized Information Services

The Fall 1982 version of the Toxicology Data Bank (TDB) became available on November 22, 1982. The file now contains records on 4017 chemicals: 3110 are complete and 907 are in the process of being built. Of the complete records, 842 have been revised or updated; 470 carry 1982 dates in the LR (Last Revision) field.

In this regenerated file, there are two significant changes from the Summer 1982 version:

1. A new value for the Status (ST) field has been introduced:

YYMMDDCOMPLETE WITH PEER REVIEW, LMTD TOXICOLOGY INFO RLGTH:XXXXX

indicating that there are no occurrences of toxicology data; this value now appears in 27 records.

[As before, YYMMDD represents the year, month, and day when the Peer Review Committee's comments were incorporated; XXXXX indicates the number of data characters in the record.]

2. A new mode of indexing is now used in the Index Strings (IX) field for 245 records.

Both of these conventions will eventually be implemented across the entire database. Each is discussed in more detail below.

THE STATUS (ST) STATEMENT IN TDB

The purpose of the ST (Status) statement in each TDB record is to indicate the date the comments of the Peer Review Committee were incorporated into the record; this could involve the addition of specific information, the elimination of information deemed inadequate, or no further action. If the record is in the process of being built, the user will recognize this from the ST statement. Because the TDB is still in a process of development and improvement, there are five variations in ST statements at present:

1. YYMMDDDATA PROCESSING IN PROGRESS
2. YYMMDDCOMPLETE WITH PEER REVIEW COMMENTS INCORPORATED
3. YYMMDDCOMPLETE WITH PEER REVIEW COMMENTS INCORPORATED RLGTH:XXXXX
4. YYMMDDNO DATA AVAILABLE FROM CURRENT SOURCE LIST
5. YYMMDDCOMPLETE WITH PEER REVIEW, LMTD TOXICOLOGY INFO RLGTH:XXXXX

Over time, these variations will be reduced to three: statements 1, 3, and 5 will be the only ones used in the database. All records in TDB, with the exception of those showing DATA PROCESSING IN PROGRESS, have been reviewed by the Peer Review Committee prior to their being placed in the online file. It has been felt, for this reason, that statement 4 is inadequate because it does not convey this idea. Hence, for records where there are no occurrences of specific values, for example, TOXV, PPOT, HTEX, or ATEX, statement 5 will be used. As was reported earlier (NLM TECHNICAL BULLETIN, June 1982, pages 4-5), statement 3 will gradually be replacing statement 2 so that the user can estimate the number of pages of output that would result from the execution of the command PRT DL COMPLETE for the particular work.

INDEXING CHANGES IN THE INDEX STRINGS (IX) FIELD

In order to facilitate better retrieval during concept searching, revisions in the method of indexing and keyword usage have been in process over the past year. A few of the changes are reflected in 245 records of this update. It is anticipated that in early 1983, all records in the online file will be re-indexed using the revised indexing system and controlled vocabulary. At that time, a listing of the vocabulary will be distributed to the TDB users. In addition, an article will be published in the NLM TECHNICAL BULLETIN giving specific information on the changes.

An example of a change in indexing reflected in some of the 245 records is the increased usage of pre-coordinated organ/disease keywords. For instance, "arrhythmia" will not only be indexed as ARRHYTHMIA in the Effects subfield of the string, but also as HEART DISEASES. This will enable searching on the broader concept of "heart diseases" as well as the specific heart disease, "arrhythmia."

ERRATA TO 1983 ANNOTATED ALPHABETIC MESH, MESH TREE STRUCTURES AND PERMUTED MESH

Robin R. Chivers, M.B., B.S., MeSH Section, NLM

1. ONCOGENES. This term is indented under GENES, VIRAL instead of GENES. This error will be corrected in the 1984 MeSH.
2. PERSONNEL TURNOVER. This term was introduced in 1983 MeSH as a minor descriptor mapping to PERSONNEL MANAGEMENT. However, two see references, EMPLOYEE TURNOVER and TURNOVER, PERSONNEL, both directed to PERSONNEL MANAGEMENT, were not changed in the 1983 ANNOTATED ALPHABETIC and PERMUTED MeSHes. In the online 1983 File MeSH, these see references are correctly directed to PERSONNEL TURNOVER. When searching on EMPLOYEE TURNOVER or TURNOVER, PERSONNEL, you will in fact be searching on PERSONNEL TURNOVER rather than PERSONNEL MANAGEMENT. Appropriate changes will be made in the 1984 MeSH.

CHANGES TO ANNOTATED ALPHABETIC MESH, 1983

- p. XXXVII Change OXYTOXIN to:
OXYTOCIN
- p. LXXXIV Change STEROIDS C4.808 to:
STEROIDS D4.808
- p. 238 Change EMPLOYEE TURNOVER see PERSONNEL MANAGEMENT to:
EMPLOYEE TURNOVER see PERSONNEL TURNOVER
- p. 418 Change LUMGABO to:
LUMBAGO
- p. 537 Change PERSONNEL MANAGEMENT
X EMPLOYEE TURNOVER
X TURNOVER, PERSONNEL to:
PERSONNEL MANAGEMENT
- Change PERSONNEL TURNOVER to:
PERSONNEL TURNOVER
X EMPLOYEE TURNOVER
X TURNOVER, PERSONNEL
- p. 723 Change TURNOVER, PERSONNEL see PERSONNEL MANAGEMENT to:
TURNOVER, PERSONNEL see PERSONNEL TURNOVER

CHANGES TO PERMUTED MESH, 1983

- p. 117 Under EMPLOYEE,
change EMPLOYEE TURNOVER see PERSONNEL MANAGEMENT to:
EMPLOYEE TURNOVER see PERSONNEL TURNOVER
- p. 200 Change LUMGABO to:
LUMBAGO
- p. 255 Under PERSONNEL,
change TURNOVER, PERSONNEL see under PERSONNEL
MANAGEMENT to:
TURNOVER, PERSONNEL see PERSONNEL TURNOVER
- p. 346 Under TURNOVER,
change EMPLOYEE TURNOVER see PERSONNEL MANAGEMENT to:
EMPLOYEE TURNOVER see PERSONNEL TURNOVER
- change TURNOVER, PERSONNEL see PERSONNEL MANAGEMENT to:
TURNOVER, PERSONNEL see PERSONNEL TURNOVER

CHANGES TO MESH TREE STRUCTURES, 1983

- p. VII Under 1983 MeSH Tree Number,
change VASOPRESSINS D6.742.734.692.781 to:
VASOPRESSINS D6.472.734.692.781

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - November 1982
 Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. 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. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

	AMERICAN JOURNAL OF PRIMATOLOGY. SUPPLEMENT 1,1982-- ALAN R. LISS NEW YORK IN PROCESS A24740020	UNITED STATES	JOURNAL OF PEDIATRIC NEPHROLOGY AND UROLOGY 1,1981-- MASSON PUBLISHING USA NEW YORK ON ORDER J33935000	UNITED STATES
IM	ARCHIVES BELGES-BELGISCH ARCHIEF 40N1-2,1982-- CONTINUES ARCHIVES BELGES DE MEDECINE SOCIALE, HYGIENE, MEDECINE DU TRAVAIL ET MEDECINE LEGALE BRUXELLES ARCHIVES BELGES DE MEDECINE, SOCIALE, HYGIENE, CITE ADMINISTRATIVE DE LETAT, QUARTIER ESPLANADE NO. 6-1010 BRUXELLES IN PROCESS A60559000	BELGIUM	JOURNAL OF TRACE AND MICROPROBE TECHNIQUES 1N1, 1982-- MARCEL DEKKER NEW YORK IN PROCESS J40547000 \$55.00	UNITED STATES
	CANCER INVESTIGATION 1,1982-- MARCEL DEKKER NEW YORK ON ORDER C05565000	UNITED STATES	LEUKEMIA REVIEW 1,1982-- MARCEL DEKKER NEW YORK ON ORDER L06494000	UNITED STATES
	DEVELOPMENTS IN FOOD MICROBIOLOGY 1,1982-- APPLIES SCIENCE PUBLISHERS BARKING ON ORDER D08307000 \$48.00	ENGLAND	NFCR CANCER SYMPOSIA N1,1982-- ACADEMIC PRESS LONDON IN PROCESS N22175000	ENGLAND
	ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY 1,1982-- PERGAMON PRESS OXFORD ON ORDER E10730000	ENGLAND	PEDIATRIC GASTROENTEROLOGY AND NUTRITION 1,1982-- RAVEN PRESS NEW YORK ON ORDER P06333000	UNITED STATES
IM	JOURNAL OF CELLULAR PHYSIOLOGY. SUPPLEMENT 1,1982-- ALAN R. LISS NEW YORK IN PROCESS J15525000	UNITED STATES	PROTEIN AND PEPTIDE REVIEW 1,1982-- MARCEL DEKKER NEW YORK ON ORDER P50550000	UNITED STATES
	JOURNAL OF FAMILY NURSING 1,1981-- CHARLES B. SLACK THOROFARE NJ ON ORDER J21093000	UNITED STATES	IM SIGHTSAVING 51N1,1982-- NATIONAL SOCIETY TO PREVENT BLINDNESS CONTINUES: SIGHT-SAVING REVIEW. NEW YORK IN PROCESS S25350000	UNITED STATES

244. Selection of Articles in Selectively Indexed Microbiology Journals

Many of the journals indexed in INDEX MEDICUS in the fields of bacteriology, mycology and virology are selectively indexed. Here are guidelines for the selection or rejection of articles on microbes from journals indicated SELECTIVE in the LIST OF JOURNALS INDEXED IN INDEX MEDICUS under the subject rubrics MICROBIOLOGY and VIROLOGY. Although such articles will be found largely in those listed there, the principles of selectivity of microbe articles will apply also to selectively indexed journals in other fields.

The specified criteria should be followed in most cases, although there will be an occasional exception to these general rules based on intelligent application. The suggestions below, however, should dispel most cases of doubt and should make the citations in INDEX MEDICUS more relevant. "Microbes" below is used for bacteria, fungi and viruses.

INDEX AS IN SCOPE ARTICLES ON

1. all microbes pathogenic to man and to animals in Category B2;
2. all microbes, pathogenic or not, associated with MeSH pollution and pollutant terms, biodegradation and sewage;
3. all microbes, pathogenic or not, contaminating food and food plants;
4. all microbes, pathogenic or not, contaminating drugs and chemicals;
5. DNA, BACTERIAL; DNA, FUNGAL; DNA, VIRAL; RNA, BACTERIAL; RNA, FUNGAL and RNA, VIRAL of pathogenic and non-pathogenic microbes (see also TECHNICAL NOTE 234.10);
6. metabolic products of pathogenic microbes;
7. enzyme metabolism of pathogenic microbes and microbes used in standard research, but not the metabolism of industrial enzymes;
8. all microbes synthesizing antibiotics (see also TN 234.27);

9. biological pest control by microbes with regard to the prevention of disease in man and veterinary animals, but not with regard to agricultural improvement;
10. genetics of all pathogenic microbes;
11. genetics of non-pathogenic microbes if directly applicable to human genetics but not if applicable to agriculture, food technology, viniculture and the like;
12. microbes used in biological assays.

DO NOT INDEX AS OUT OF SCOPE

13. non-pathogenic microbes except as above or unless the study has direct application to humans or higher animals;
14. microbes in plants and lower animals in Category B1;
15. microbes in air, water and soil except as in 2 above;
16. microbes used in breweries, wineries, cheeseries, bakeries, etc. for manufacture or improvement of quality;
17. industrial applications of microbes;
18. photosynthesis, luminescence and other physiological processes in non-pathogenic microbes.