



THE NLM TECHNICAL BULLETIN

JANUARY 1980

NO. 129

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DATA BASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	8,247	THROUGH 1980	25 JAN 80	
MED66	501,802	JAN 66-DEC 68	08 DEC 79	
MED69	668,258	JAN 69-DEC 71	08 DEC 79	
MED72	669,106	JAN 72-DEC 74	08 DEC 79	
+MED75	642,953	JAN 75-DEC 76	08 DEC 79	
+MED77	253,234	JAN 77-DEC 77	08 DEC 79	
*BIOETHICS	8,930	JAN 73-SEP 79	27 NOV 79	7911(EM)
*CANCERLIT	196,955	JAN 63-JAN 80	21 JAN 80	8001(EM)
*CANCERPROJ	20,557	1976-1980	24 JAN 80	8001(EM)
*CATLINE	195,045	1965-1980	25 JAN 80	
CHEMLINE	439,812		05 JAN 80	
*CLINPROT	1,669		15 OCT 79	7909(EM)
*EPILEPSY	25,635	1945-PRESENT	16 SEP 79	
*HEALTH	136,222	JAN 75-FEB 80	21 JAN 80	8002(EM)
*HISTLINE	39,202		14 DEC 79	7912(EM)
MEDLINE	406,823	JAN 78-FEB 80	05 JAN 80	8002(EM)
MESH VOC	15,080	1980	08 DEC 79	
*NAME AUTH	108,178	1980	14 JAN 80	
*RTECS	36,851	1978	07 SEP 79	
SDILINE	21,508	FEB 80	05 JAN 80	
*SERLINE	33,790	1979	30 NOV 79	
*TDB	2,514		22 JAN 80	
*TOXLINE	673,858		28 JAN 80	8001(EM)
CBAC	348,337	1974-VOL 31(1)		
TOXBIB	131,407	1974-FEB 80		
IPA	37,457	1974-VOL 16(16-22)		
HEEP	80,243	1974-FEB 80		
PESTAB	18,243	1974-JAN 80		
EMIC	27,701	1960-DEC 79		
ETIC	16,497	1950-AUG 79		
RPROJ	12,623	JAN 79-MAR 80		
*TOXBACK	379,299		26 FEB 78	
CBAC	167,668	1965-1973		
TOXBIB	127,104	1968-1973		
IPA	19,188	1970-1973		
HEEP	24,680	1971-1973		
HAPAB	12,816	1966-1973		
HAYES	10,043	1940-1966		
TMIC	4,552	1971-1975		
TERA	13,248	1960-1974		

- 1) * = FILES AVAILABLE AT NLM ONLY.
- 2) + = THESE BACKFILES CONTAIN CITATIONS HAVING EITHER A PUBLICATION DATE OR ENTRY DATE FOR THE DATES COVERED.
- 3) BACKFILES ARE AVAILABLE ONLY THRU OFFSEARCH AT NLM AND SUNY.
- 4) TOXBACK IS AVAILABLE ONLY THRU OFFSEARCH AT NLM.

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TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY FOR SPECIAL NOTICES AND MESSAGES

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

MED77 - The MED77 (or MEDLINE's BACK77) data base was created on December 10, 1979, with 253,234 records taken from the MEDLINE data base. It includes citations with a publication date of 1977 or items with a date of entry (DA) 761104 through 771031.

HISTLINE VOCABULARY GUIDE (Manual Part 22) - The "Guide to Keywords in the Structured HISTLINE Vocabulary" is now available free upon request from MMS. This guide gives scope notes for the main subject keywords used in HISTLINE indexing and provides cross references. This is the listing referenced in parts 22.1, 22.3.7, 22.4.1, and 22.6 of the 1980 edition of the NLM Online Services Reference Manual.

HISTLINE MANUAL CHANGES (Manual Part 22) - Please make the following changes to the HISTLINE section of the 1980 NLM Online Services Reference Manual:

Add to Appendix E:

BANGLADESH

Make the following changes in Appendix A:

Change: Ophthalmology
To: Ophthalmology (or Optics)**

Change: Optics
To: Optics use Ophthalmology

SPECIAL LIST P (Manual 7.3.14, 11.3.21) - As of 1980, the Special List Indicator (LI) for the Non-Index Medicus journal titles in the area of reproductive biology will no longer be represented by the tag "R" in MEDLINE, but instead by the letter "P". This change is taking place in preparation for the inclusion of the POPLINE data base in the MEDLARS system.

PHONES - Appendix A is an updated list of telecommunications access numbers you may use to connect to the NLM or SUNY computers.

MEDLINE's BACKFILES - Appendix B is an updated listing of date of entry (DA) ranges for yearly segments of MEDLINE and its Backfiles (last published with September 1978 Technical Bulletin).

- CANCERPROJ
INDEX TERM
LISTING - An updated list of "Alphabetical and Hierarchical Listing of CANCERPROJ Index Terms" is available upon request from MMS. Appendix C is a list of the new and changed captions in numeric code sequence included in the listing.
- CANCERLIT
MESH HEADINGS
(Manual 16.3.9) - The addition of MeSH terms to CANCERLIT records has been delayed until the February CANCERLIT update.
- TECHNICAL
BULLETIN
PAPER SIZE - Beginning with this issue, the NLM Technical Bulletin will be printed on 8½" x 11" paper to conform with the new government standard. A wider left margin will be provided for those users who wish to punch holes in their copies.
- NEW
PUBLICATION - The introductory issue of the new NLM publication, List of Serials and Monographs Indexed for Online Users, will be sent free to users as an appendix to a Technical Bulletin issue as soon as it becomes available. Additional copies and later issues will be available from the National Technical Information Service.

THE NLM ONLINE SERVICES REFERENCE MANUAL
Sheila Proudman, MEDLARS Management Section, NLM

The 1980 edition of the NLM Online Services Reference Manual was mailed to users (one free copy per user ID code) around the first of the year. Divider-tab sets were delayed in printing and have been included with this issue of the Technical Bulletin.

In keeping with the standardization effort, there were some changes in the format as well as the content of the Manual. A basic format was developed for each data base discussion: introductory material including scope and coverage; the unit record table with data elements listed in alphabetical order by mnemonic and a single column for the method of searching (i.e., directly, Text Word, or rangeable); examples of detailed records; descriptions of each data element in alphabetical order by mnemonic; special features of searching; sample search; and appendices. In addition, data element names and category qualifiers (mnemonics) have been made uniform across all NLM files. In view of the emphasis on these mnemonic changes, a special chapter that discusses the standardization effort and contains a list of mnemonic changes by data base has been included as Part 2 (replacing the Mini-Manual) in this edition. Users have been referred from the individual data base chapters to Part 4 for general information whenever possible, in an attempt to highlight the distinction between the ELHILL software and the content of the various data bases.

It is our intention to keep the manual current by distributing additions throughout the year. For example, there will be a new manual chapter describing POPLINE (Population Information online), a data base containing citations (with abstracts) to journal articles, monographs and technical reports dealing with the world literature in reproductive biology, applied research in contraceptive technology, family planning, and demography.

Revised Manual pages, with dates of revision noted, will be mailed periodically as enclosures to the Technical Bulletin.

Several possible modifications are being explored for the next edition of the Manual, including consecutive page numbers and running heads, a glossary of online search terminology, and an updated, concise mini-Manual. Users of the Manual are invited to submit their comments or suggestions to MMS.

REGIONAL MEDICAL LIBRARY SHIFT

The University of Illinois at the Medical Center (Chicago) has been awarded a contract by NLM to serve as the Regional Medical Library for Region VII. The Midwest Health Science Library Network, as the service is known, comprises Iowa, Illinois, Indiana, Minnesota, North Dakota, and Wisconsin. The award was made on the basis of competitive proposals received from the University of Illinois and the John Crerar Library.

Regional services will be provided by the University of Illinois at the Medical Center beginning January 1, 1980. Irwin Pizer will be the RML director and Ruby May the associate director. Ms. May filled a similar position at the RML when it was at the John Crerar Library.

The new Regional Medical Library office is at 1750 West Polk St., Chicago, Illinois 60612 (for correspondence use P.O. Box 7509, Chicago, Illinois 60680). Telephone: 312/996-2464.

The John Crerar Library has served as the RML since 1968, the fourth of the eleven RMLs to be designated. Under its able leadership, information services were coordinated for the more than 1800 institutions in the Region. The Midwest Health Science Library Network has also been in the forefront of the movement to create consortia--almost 50 member institutions. The John Crerar Library will function as a resource library under a new contract.

(Reprinted from the National Library of Medicine News, December 1979.)

TOXICOLOGY DATA BANK UPDATE
 Darlene K. Futagaki, Specialized Information Services, NLM

The Toxicology Data Bank (TDB) was updated on 22 January, 1980 with the addition of 189 completed compound records. As a result, 1477 of the 2514 compounds carried in the data base are now complete.

Listings of all TDB compounds, with completed records identified by an asterisk (*), may be obtained by writing to:

TDB
 Specialized Information Services, Rm. C6B
 National Library of Medicine
 8600 Rockville Pike
 Bethesda, Maryland 20209

ONLINE HINTS

Beginning with this issue, a brief discussion of an online topic (e.g., a capability, a command, a search strategy) will be included as a regular feature of the Technical Bulletin. If applicable, references to the 1980 edition of the NLM Online Services Reference Manual will be given. This issue will discuss the methods of overriding a stored address.

If your institution has submitted a stored address form to MEDLARS Management Section and the stored address has been implemented, all offline prints or offsearches requested under your ID code will be sent to the address specified on the form. However, it may happen that you do a search for a patron who would like to receive the printout directly. There are two ways to override the stored address both for offline prints and offsearches. Method #1 uses the instruction MAIL = PROMPT; method #2 uses prespecification of the elements of the address.

Mail = Prompt

This is the easier method, since as the words imply, the program prompts you for the elements of the address. After the program cue:

REQUESTER'S NAME OR SAME-

or after the program cue:

SEARCH TITLE OR NONE-

simply enter:

MAIL = PROMPT

The program will then prompt you to enter NAME; ADDRESS; CITY, STATE AND ZIP; REQUESTER'S NAME; and SEARCH TITLE just as if you had no stored address. The program will give you a second chance to enter the requester's name or the search title, since you responded to the original cue with MAIL = PROMPT.

Prespecification

In this method you may override the stored address at the same two points in the program as with MAIL = PROMPT, but you may also avoid the program prompts by using the keywords NAME, ADDRESS, and CITSTAZIP. For example:

PROG:
SEARCH TITLE OR NONE-

USER:
NAME = JOHN DOE

PROG:
SEARCH TITLE OR NONE-

USER:
ADDRESS = 3521 Q STREET

PROG:
SEARCH TITLE OR NONE-

USER:
CITSTAZIP = VALHALLA, NEW YORK 10196

PROG:
SEARCH TITLE OR NONE-

You need not override the whole stored address. If John Doe is your colleague and works in the same office, he may use NAME = JOHN DOE simply to keep his searches separate from yours. If he then enters the search title as prompted, the printouts will come to the stored address, i.e., your office, but addressed to your colleague.

Note that as long as you do not exceed one line, you can prespecify more than one element of the address, separated by commas, in one statement. For example:

PROG:
SEARCH TITLE OR NONE-

USER:
NAME = JOHN DOE, ADDRESS = 3521 Q STREET

See Stored Addresses, Part 4.12, Prespecification in Offline Prints, Part 4.9.17.8.1 and Prespecification in OFFSEARCH, Part 5.4 of the Manual, for more detailed explanations of this and other uses of prespecification.

NEW SERIALS ANNOUNCEMENT - DECEMBER 1979
 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.

ABSTRACTS - AMERICAN SOCIETY OF NEPHROLOGY
 1976--
 CHARLES B SLACK
 CONTINUES ABSTRACTS OF THE ANNUAL MEETING,
 AMERICAN SOCIETY OF NEPHROLOGY.
 THOROFARE NY UNITED STATES
 ON ORDER
 A01068000

BEHAVIOR RESEARCH OF SEVERE DEVELOPMENTAL
 DISABILITIES
 1,1980--
 NORTHHOLLAND PUBLISHING COMPANY
 AMSTERDAM NETHERLANDS
 ON ORDER
 B02 50000

ADVANCES IN FAMILY INTERVENTION ASSESSMENT
 AND THEORY
 1,1979--
 JAI PRESS INC
 GREENWICH CO UNITED STATES
 ON ORDER
 A13964000

CLINICAL PHYSICS AND PHYSIOLOGICAL
 MEASUREMENT
 1,1980--
 INSTITUTE OF PHYSICS
 KENT ENGLAND
 PHYSICS TRUST PUBLICATIONS, BLACKHORSE
 ROAD, LETCHWORTH, HERTS SG6 1HN, ENGLAND
 ON ORDER
 C26490000

ADVANCES IN INSTRUCTIONAL PSYCHOLOGY
 1,1978--
 LAWRENCE ERLBAUM ASSOCIATES; NEW YORK,
 DISTRIBUTED BY HALSTEAD PRESS
 HILLSDALE NJ UNITED STATES
 LAWRENCE ERLBAUM ASSOCIATES, INC.,
 PUBLISHERS, 62 MARIA DRIVE, HILLSDALE,
 N.J. 07642
 W1 AD652
 A14270000

COMMENTARIES ON RESEARCH IN BREAST DISEASE
 1,1979--
 ALAN R LISS
 NEW YORK UNITED STATES
 ON ORDER
 C31810000

ADVANCES IN SUBSTANCE ABUSE
 1,1980--
 JAI PRESS INC
 GREENWICH CO UNITED STATES
 ON ORDER
 A15445000

CORE STUDIES
 1,1979--
 ALLIED HEALTH PROGRAMS
 LOS ANGELES UNITED STATES
 ON ORDER
 C49100500

APPETITE
 1,1980--
 ACADEMIC PRESS
 LONDON ENGLAND
 ON ORDER
 A57535000

CURRENT REVIEWS FOR NURSE ANESTHETISTS
 1979?--
 CURRENT REVIEWS
 MIAMI FL UNITED STATES
 ON ORDER
 C57295000

IM ARCHIVES OF DERMATOLOGICAL RESEARCH
 261N1,1978--
 SPRINGER INTERNATIONAL
 CONTINUES ARCHIVES FOR DERMATOLOGICAL
 RESEARCH. ARCHIV FUR DERMATOLOGISCHE
 FORSCHUNG. ADDED TITLE: ARCHIV FUR
 DERMATOLOGISCHE FORSCHUNG, 1978.
 BERLIN GERMANY, WEST
 W1 AR452K
 A60767000

CURRENT REVIEWS FOR RECOVERY ROOM NURSES
 1979?--
 CURRENT REVIEWS
 MIAMI FL UNITED STATES
 ON ORDER
 C57296000

CURRENT REVIEWS IN RESPIRATORY THERAPY
 1979?--
 CURRENT REVIEWS
 MIAMI FL UNITED STATES
 ON ORDER
 C57297000

EUROPEAN HEART JOURNAL
1,1980--
ACADEMIC PRESS
LONDON
ON ORDER
E15845000

UNITED STATES

JOURNAL OF ADOLESCENT HEALTH CARE
1,1980
ELSEVIER NORTH-HOLLAND
NEW YORK
ON ORDER
J10650000

UNITED STATES

EXPERIMENTAL HEMATOLOGY TODAY
1977--
SPRINGER-VERLAG
CONSISTS OF PAPERS PRESENTED AT THE 5TH-
ANNUAL MEETING OF THE INTERNATIONAL SOCIETY
FOR EXPERIMENTAL HEMATOLOGY. VOL. FOR 1977
CONSISTS OF SELECTED PAPERS GIVEN AT THE
EGON LORENZ MEMORIAL SYMPOSIA, PRESENTED AS
PART OF THE 5TH ANNUAL MEETING.
NEW YORK
M1 EX504P
E19450000

UNITED STATES

JOURNAL OF HOSPITAL INFECTION
1,1980--
ACADEMIC PRESS
LONDON
ON ORDER
J23250000

ENGLAND

HEPATOLOGY
1,1979--
CHARLES B. SLACK, INC.
THOROFARE NJ
ON ORDER
H11330000

UNITED STATES

LOW BACK PAIN
1,MAR 1980--
EDEN MEDICAL RESEARCH
ST. ALBANS VT
PERGAMON PRESS, INC. FAIRVIEW PARK DR.
ELMSFORD, NY 10523
ON ORDER
L12980000
\$18.00

UNITED STATES

HUMANISTIC PSYCHOLOGY INSTITUTE REVIEW
1,1978--
HUMANISTIC PSYCHOLOGY INSTITUTE
SAN FRANCISCO
HUMANISTIC PSYCHOLOGY INSTITUTE, 325 NINTH
STREET, SAN FRANCISCO, CA 94103 (415)
626-4491
ON ORDER
H22650000

UNITED STATES

MOTOR SKILLS: THEORY INTO PRACTICE.
MONOGRAPH
1,1978--
MOTOR SKILLS: THEORY INTO PRACTICE
NEWTOWN CT
MOTOR SKILLS: THEORY INTO PRACTICE 24
TAUNTON LAKE DRIVE NEWTOWN, CT 06470
M1 M0948J
M49600100

UNITED STATES

INTERNATIONAL JOURNAL OF MICROSURGERY
1,JAN 1979--
VOUDIEZ
PARIS
50 AV. DAUMESNIL, 75012 PARIS, FRANCE
ON ORDER
I27290000

FRANCE

NEW YORK MEDICAL QUARTERLY
1,SUMMER 1979--
NEW YORK MEDICAL PUBLISHING CORPORATION
NEW YORK
NEW YORK MEDICAL PUBLISHING CORPORATION 370
SEVENTH AVENUE, NEW YORK, N.Y. 10001
M1 NE697AL
M16018000

UNITED STATES

INTERNATIONAL JOURNAL OF
PERINATAL-PEDIATRIC PHARMACOLOGY AND DRUG
THERAPY
1,1980--
KARGER
BASEL
ON ORDER
I27690000

SWITZERLAND

PERSPECTIVES IN PSYCHOPHARMACOTHERAPY
1979?--
PERGAMON PRESS
ELMSFORD NY
ON ORDER
P09270000

UNITED STATES

INTERNATIONAL JOURNAL OF PRIMATOLOGY
1,1980--
PLENUM PUBLISHING CORPORATION
NEW YORK
ON ORDER
I27750000

UNITED STATES

PLACENTA
1980--
M. B. SAUNDERS
EAST SUSSEX
H.B. SAUNDERS COMPANY LTD, 1 ST ANNES ROAD
EASTBOURNE EAST SUSSEX BN21 3UN ENGLAND
ON ORDER
P16125000

ENGLAND

INTERNATIONAL JOURNAL OF SPORTS MEDICINE
1,1980--
GEORG THIEME VERLAG
STUTTGART
ON ORDER
I28170000

GERMANY, WEST

PROBLEMES EN MEDECINE DE REEDUCATION
1979--
MASSON
PARIS
120 BD. SAINT-GERMAIN, 75280 PARIS
ON ORDER
P25970000

FRANCE

PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM
ON BRAIN-ENDOCRINE INTERACTION
1979?--
S. KARGER
BASEL
ON ORDER
P37550000

SWITZERLAND

PROGRESS IN STROKE RESEARCH

1,1979--
PITMAN MEDICAL
TUNBRIDGE WELLS
P.O. BOX 7, TUNBRIDGE WELLS, KENT, TN1 1XH,
ENGLAND
W1 PR681K
P49430000

ENGLAND

REPORT ON NURSING FACULTY SALARIES IN
COLLEGES AND UNIVERSITIES
1978/1979--

AMERICAN ASSOCIATION OF COLLEGES OF NURSING
COVER TITLE: REPORT ON NURSING FACULTY
SALARIES. ISSUED BY THE DATA BANK PROJECT
OF THE AMERICAN ASSOCIATION OF COLLEGES OF
NURSING.
WASHINGTON
AMERICAN ASSOCIATION OF COLLEGES OF
NURSING, ELEVEN DUPONT CIRCLE, N.W., SUITE
430, WASHINGTON, D.C. 20036
W1 RE212CM
R18690000

UNITED STATES

SCIENCE AND TECHNOLOGY LIBRARIES

1,1980--
HAWORTH PRESS
NEW YORK
ON ORDER
S12500300

UNITED STATES

STUDIES IN FORMATIVE SPIRITUALITY

1,1980
INSTITUTE OF FORMATIVE SPIRITUALITY,
DUQUESNE UNIVERSITY
CONTINUES HUMANITAS
PITTSBURGH PA
ON ORDER
S44170000

UNITED STATES

SUBSTANCE AND ALCOHOL MISUSE

1980--
PERGAMON PRESS
ELMSFORD NY
ON ORDER
S45550000

UNITED STATES

UROLOGY DIGEST

18N8/9,AUG/SEPT 1979--
MEDICAL DIGEST, INC
CONTINUES THE JOURNAL OF CONTINUING
EDUCATION IN UROLOGY. INCLUDES ABSTRACTS
OF MEDICAL LITERATURE.
NORTHFIELD IL
W1 UR68D
U04840100

UNITED STATES

WASHINGTON DRUG LETTER

11N42,1979--
WASHINGTON BUSINESS INFORMATION
CONTINUES WASHINGTON DRUG AND DEVICE LETTER.
WASHINGTON
W1 WA598B
N00630000

UNITED STATES

YEAR BOOK OF THE AMERICAN ACADEMY OF
OSTEOPATHY

1976--
AMERICAN ACADEMY OF OSTEOPATHY
CONTINUES YEARBOOK OF SELECTED OSTEOPATHIC
PAPERS; AMERICAN ACADEMY OF OSTEOPATHY
COLORADO SPRINGS CO
IN PROCESS
Y00790000

UNITED STATES

LIST OF MONOGRAPHS INDEXED
FEBRUARY 1980

I

International Symposium on Lactate in Acute Conditions, Basel, 1978. Lactate in acute conditions / editors, H. Bossart and C. Perret. — Basel ; New York : Karger, 1979. 148 p. : ill.

1. Acute Disease - congresses 2. Lactates - diagnostic use - congresses I. Bossart, H., ed. II. Perret, Claude, ed. III. Title
ISBN 3-8055-2968-6
O4NLM: QU 98 I61L 1978
IM Cit. No. 7903520 (rev. CIP.)

International Symposium on Pertussis, 3d, National Institutes of Health, 1978. International Symposium on Pertussis / Charles R. Manclark, James C. Hill, editors. — Bethesda, Md. : U. S. Dept. of Health, Education, and Welfare, Public Health Service, National Institutes of Health ; Washington : for sale by the Supt. of Docs., U. S. Govt. Print. Off., [1979?] ix, 367 p. : ill. — (DHEW publication ; no. (NIH) 79-1830) Proceedings of a conference sponsored by the Bureau of Biologics, FDA and other agencies, and held November 1-3, 1978. Stock no. 017-040-00440-1.

1. Pertussis Vaccine - congresses 2. Whooping Cough - congresses I. Hill, James C., ed. II. Manclark, Charles R., ed. III. National Institutes of Health. IV. U. S. Food and Drug Administration. Bureau of Biologics. V. Series

LC: 78-600169
O4NLM: W3 IN921BLL 3d 1978
OXNLM: [WC 340 I61 1978]
IM Cit. No. 7910732

S

Symposium on Proinsulin, Insulin, and C-Peptide, Tokushima, Japan, 1978. Proinsulin, insulin, C-peptide : proceedings of the Symposium on Proinsulin, Insulin, and C-Peptide ... / editors, Shigenaki Baba, Toshio Kaneko, Noboru Yanahaira; editorial advisors, Arthur H. Rubenstein and Donald F. Steiner. — Amsterdam : Excerpta Medica ; New York : sole distributor in U. S., Elsevier North-Holland, 1979. 468 p. : ill. — (Excerpta medica : International congress series ; no. 468)

1. Insulin - congresses 2. Peptides - congresses 3. Proinsulin - congresses I. Baba, Shigenaki, 1925- ed. II. Kaneko, Toshio, ed. III. Yanahaira, Noboru, ed. IV. Title V. Series

ISBN 0-444-90069-1 LC: 79-14184
O4NLM: W3 EX89 no.468 1979
O4NLM: [WK 820 S9894p 1978]
IM Cit. No. 7902564 (rev. CIP.)

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ENCLOSURE:

REPLACEMENT PAGES FOR ONLINE SERVICES REFERENCE MANUAL

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PESTAB	18,243	1974-JAN 80		
EMIC	27,701	1960-DEC 79		
ETIC	16,497	1950-AUG 79		
RPROJ	13,527	JAN 79-APR 80		
*TOXBACK	379,299		26 FEB 78	
CBAC	167,668	1965-1973		
TOXBIB	127,104	1968-1973		
IPA	19,188	1970-1973		
HEEP	24,680	1971-1973		
HAPAB	12,816	1966-1973		
HAYES	10,043	1940-1966		
TMIC	4,552	1971-1975		
TERA	13,248	1960-1974		

- 1) * = FILES AVAILABLE AT NLM ONLY. *(will be corrected)*
- 2) + = THESE BACKFILES CONTAIN CITATIONS HAVING EITHER A PUBLICATION DATE OR ENTRY DATE FOR THE DATES COVERED.
- 3) BACKFILES ARE AVAILABLE ONLY THRU OFFSEARCH AT NLM AND SUNY.
- 4) TOXBACK IS AVAILABLE ONLY THRU OFFSEARCH AT NLM.

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TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY FOR SPECIAL NOTICES AND MESSAGES

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

TOXLINE, TDB, AND RTECS AT SUNY - Effective February 20, TOXLINE, TDB, and RTECS may be searched at the SUNY computer as well as at NLM. TOXBACK may be searched via OFFSEARCH also at SUNY.

SECONDARY (SH) - The subheading SECONDARY is now operational at both NLM and SUNY. SECONDARY is a new subheading for 1980 and its search abbreviation is SC. It is used to indicate the secondary location to which the neoplastic process has metastasized.

SERLINE (Manual 11.3.40) - The name for the data element U2 containing the CATLINE Citation Number has been changed to "Other File's Unique Identifier" to accommodate the introduction of the element into CATLINE where it will contain the SERLINE citation number.

CANCERLIT (Manual 16.3.9) - MeSH headings are being added to CANCERLIT starting with the February 1980 update. This field may be used exactly as it is used in MEDLINE except that the pre-explosion capability may not be used. Please notify MMS of any problems you encounter when using these MeSH terms.

CLINPROT (Manual 18.3.3) - The AW (Award Type) data element has been deleted.

CATLINE (Manual Part 8) - The 1980 MeSH must be used in searching the newly re-generated CATLINE data base. New features also include:

A. Search keys: Construct a title search key on the first filing character of titles beginning with elided articles.

Example:

L'URINE ET LA PENSEE MEDICALE = URI/E/L/P

B. Encoding Level (EL): The EL field is searchable and describes the status of a record.

F = Full level
 8 = CIP
 L = Limited
 R = Retrospective

C. Other File's Unique Identifier (U2): For new records in CATLINE this field will contain the Unique Identifier (UI) from SERLINE (or from other NLM in-house files).

D. Abstracting & Indexing Tag (AI): A new value of AV may appear if an audiovisual serial is being indexed for the Index to Audiovisual Serials in the Health Sciences.

IODINE
ISOTOPES,
DIAGNOSTIC

- IODINE ISOTOPES, DIAGNOSTIC was a MeSH descriptor before 1977. In 1977, this descriptor was deleted from MeSH and replaced in MEDLINE and Backfile records with IODINE RADIOISOTOPES/ diagnostic use. However, the 1,694 citations in BACK69 containing IODINE ISOTOPES, DIAGNOSTIC were inadvertently left unchanged. Therefore, despite the online note in Annotated Alphabetic MeSH, "search IODINE ISOTOPES, DIAGNOSTIC under IODINE RADIOISOTOPES/DU 1966-76," searchers should use IODINE ISOTOPES, DIAGNOSTIC in searching BACK69. The citations containing IODINE ISOTOPES, DIAGNOSTIC in BACK69 will be updated to contain IODINE RADIOISOTOPES/DU instead in a class update action at the end of the year in time for searching in 1981.

LIST OF
JOURNALS
INDEXED, 1980

- The 1980 LJI, listing the 2,630 journals indexed in Index Medicus, is now available from the Government Printing Office. The Introduction to the 1980 edition announces several important changes:
 - (1) non-Index Medicus ("Special List") journals no longer appear in the LJI, since there is a new, separate publication for online users.*
 - (2) NLM call numbers now appear at the end of each journal entry.
 - (3) the alphabetic listing by subject field now includes only MeSH terms (a list of the terms used, including brief scope notes and cross references, appears at the beginning of the subject section).

The LJI continues to have four major sections: an alphabetic listing by abbreviated title, followed by full title; an alphabetic listing by subject field; and an alphabetic listing by country of origin. (The first two of these sections are also found in the January issue of Index Medicus.) Orders for the List of Journals Indexed in Index Medicus, 1980, should be sent to the Superintendent of Documents (U.S. Government Printing Office, Washington, D.C., 20402). Price: \$5.00 (\$6.25 foreign). Stock Number: 017-052-00210-4.

*This publication (List of Serials and Monographs Indexed for Online Users, 1980) will be mailed free to each ID code with the next issue of the Bulletin (see Technical Note on page 4 in the January 1980 NLM Technical Bulletin).

TELENET
RESET
(Manual
3.5.1.3)

- Some recent changes made to the TELENET network have caused occasional problems with terminals not printing. The problem may occur when switching from one computer to another while in the network, e.g., from SDC to NLM, from SUNY to NLM. To avoid this problem type RESET and a carriage return after receiving an @ symbol from TELENET. You will receive no response. Then perform the entire TELENET login procedure from the very beginning, i.e., two carriage returns. Users are also reminded that proper identification of their terminals in response to TELENET's TERMINAL= query is helpful in proper transmission of data over the network.

MODEMS
(Manual 3.3)

- New VADIC modems which are compatible with NLM and SUNY are:
 - VA3455P - May be used to access 120 cps nodes coded "V3405" or "B/V" (on the PHONES list distributed bi-monthly with the Bulletin)
 - VA3451P - may be used to access either 30 cps nodes or 120 cps nodes coded "V3405", "B/V" or "B212"
 - VA3434 - this is an acoustic coupler which may be used to access 120 cps nodes coded "V3405" or "B/V"
- The Anderson Jacobsen acoustic coupler AJ1234 is similar to the VA3434 and may be used to access NLM or SUNY at 120 cps using nodes coded "V3405" or "B/V". The Anderson Jacobsen modem AJ1255 is compatible with the VA3405 modem and may be used to access NLM or SUNY at 120 cps using nodes coded "V3405" or "B/V."
- The Bell 212A modem may be used to access NLM or SUNY using either 30 cps nodes or 120 cps nodes coded "B212" or "B/V."

NEW ELHILL CAPABILITIES

Sheila Proudman, MEDLARS Management Section, NLM
David L. Kenton, OCCS, NLM
Fred Bone, BLAISE, British Library

Beginning March 24, 1980 NLM will mount a new version of ELHILL (ELHILL 3.2). This is the fifth major revision of the system; the previous versions were AIM-TWX, ELHILL 2, ELHILL 2A (multifile), ELHILL 3, and ELHILL 3.1. The new software is a collaborative effort between NLM and BLAISE, the British Library MEDLARS service. The new system will enable users to store and change their own passwords and stored addresses, thus eliminating the waiting period users have experienced when NLM performed these changes. It also allows individual users the ability to set the dimensions of the online page. The main feature of the new software is the Unified User Specification File, where various

pieces of information relating to a particular user ID code will be kept. This article discusses four aspects of ELHILL 3.2:

- 1) The Unified User Specification File (UUSF)
- 2) The PROFILE commands
- 3) The SAVE and SAVESEARCH commands
- 4) The DISPLAY command

These features are interrelated: the UUSF contains information that is entered or modified by using the new commands.

UNIFIED USER SPECIFICATION FILE (UUSF)

The UUSF is a work area in the computer's memory where users will store such information as the password they wish attached to the user ID code, the address to which offline output should be sent (stored address), and the page length and width desired for online printing. Users will have full control over the contents of the UUSF, and changes will take effect immediately. Thus, if one user of a particular ID code changes the password attached to that code, the next person logging in under that code, even a minute later, must use the new password. Of necessity, persons who share a user ID code will have to discuss and agree upon changes in advance, and keep careful records of the current information.

The PROFILE commands will be used to initiate or change data in the UUSF. PROFILE LIST will display the contents of the UUSF; PROFILE MODIFY will allow the user to change one or more items. More detailed instructions for these procedures may be found in the replacement pages for the NLM Online Services Reference Manual included with this issue of the Technical Bulletin.

SAVE AND SAVESEARCH

These two commands are used to save search formulations for online use. The SAVE command is used after terms have been entered, and will not save terms that generated a NO POSTINGS message. The SAVESEARCH command is used before the desired search is entered, and alerts the system that all following terms are to be saved, whether they retrieve postings or not. Any saved search may be used for online searching immediately after the SAVESEARCH COMPLETED message has been received; the saved search is entered by name followed by (SN):

```
SS 1/C?
USER:
NURSING TERMS (SN)
PROG:
SS (1) PSTG (895)
```

Because the UUSF offers limited storage space for saved searches, it is suggested that elaborate formulations and large numbers of SDI-type search continue to be entered as STORESEARCHes, and executed in the OFFSEARCH mode. It appears that the best use of the save capability would be "hedged" of terms, such as human terms for free text data bases, that will be used frequently online.

DISPLAY

This command displays the search formulation in ascending order by search statement number, along with the number of postings retrieved. Any search that has been saved or stored may also be displayed with this command.

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

For several years, Index Section has maintained a card file of chemicals identified by indexers in MEDLINE journals, but for which no MeSH heading existed. This file presently contains approximately 20,000 chemicals and is growing at the rate of 2000-2500 entries per year. Since the file has become increasingly cumbersome in terms of sheer physical size, and it is therefore difficult to avoid duplicates and to upgrade existing records, it was decided to put the chemical records in machine readable form.

The mechanism chosen for this task was creation of the chemical entries as a third record type (in addition to descriptor and qualifier records) in the MeSH Vocabulary File. There are several advantages to this choice:

- 1) Information on these chemicals will now be available online to the general public;
- 2) The efficiency of day-to-day operations involved in creating, locating and maintaining records of, and providing indexing instructions for, these chemicals will be greatly increased;
- 3) Because of the existing links between the MeSH Vocabulary File and MEDLINE which come into play during citation input, it will now be possible to take specific information from the chemical record automatically, namely the preferred name of the chemical, its CAS Registry Number or Enzyme Commission Number, and the MeSH heading(s) used to index the chemical, and insert these as directly searchable data into the MEDLINE citation.

In the spring of 1980, the approximately 20,000 chemical records will be added to the online MeSH Vocabulary File; thereafter, new records will be added as chemicals are identified during the indexing process. Specific chemicals with their associated Registry Numbers or Enzyme Commission Numbers and MeSH index terms will then be extracted from the vocabulary records and inserted into the MEDLINE unit records as they appear in indexed articles. No attempt is being made at this time to insert this data retroactively into earlier citations.

STRUCTURE OF THE CHEMICAL RECORD IN THE MESH VOCABULARY FILE

Part 6.8.3 of the 1980 edition of the NLM Online Services Reference Manual provides the unit record for chemicals in the MeSH Vocabulary File; Part 6.9

includes a description of each of the specific data elements involved in the chemical records in the file. The following brief summaries represent changes or expansions of Manual statements on the indicated data elements.

- 6.9.37 CAS Registry Number/Enzyme Commission Number (RN)

Registry Number information is obtained from CHEMLINE or the 8th, 9th or 10th Collective Indexes published by Chemical Abstracts. If the substance is an enzyme, the Enzyme Commission Number is used instead. These numbers are assigned by the International Union of Pure and Applied Chemistry and the International Union of Biochemistry, and are published in Enzyme Nomenclature. Their format in the unit record is EC X.X.X.X.

- 6.9.41 Synonyms (SY)

Entries in this field represent other names by which a chemical substance has been identified in MEDLINE journals; these may also be other chemical or systematic names not covered in the N1 chemical name field (see next entry). No attempt has been made to supply all synonyms available; only those which have actually appeared in indexed journals are included.

- 6.9.24 CAS Type 1 name (N1)

This represents the systematic name of a substance defining its chemical structure as assigned by Chemical Abstracts Service. Other systematic names may appear in the Synonym (SY) field. The N1 name is obtained from CHEMLINE or the Collective Indexes and entered into this field in its uninverted form.

- 6.9.4 Date of entry (DA)

In the initial approximately 20,000 records, the dates will be in the form YYØ1Ø1; all records created after the file becomes operational will contain the exact month and day.

- 6.9.42 Thesaurus ID (TH)

This field contains authoratative references where information on the chemical substance is listed. The most frequently used are shown below. USAN and Merck are the standards for determining the generic name of the chemical (see also Name of substance).

- 1) USAN and the USP Dictionary of Drug Names (USAN refers to United States Adopted Names and USP to United States Pharmacopoeia).
Format in chemical record: USAN 1980, p. 234.
- 2) Merck Index.
Format in chemical record: Merck Index, 9th ed, #234.
- 3) Negwers Arzneimittel und ihre Synonyma.
Format in chemical record: Negwer, 5th ed, #234.
- 4) Unlisted Drugs.
Format in chemical record: UD 25:234j

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.

RECORD CREATION AND FILE INTERACTIONS

A chemical record in the MeSH Vocabulary File originates either from chemicals flagged by indexers during the process of indexing MEDLINE journals or from searcher requests. It is structured following the format described in Parts 6.8.3 - 6.9.44 of the Manual. After creation of the record, the non-descriptor term is added to the Index Citation Form along with appropriate subheading and print designations, and routed through the keyboarding cycle. Chemical records 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 and Enzyme Commission Numbers are added and updated by referring to the most recently regenerated version of CHEMLINE and the latest edition of Enzyme Nomenclature.

After keyboarding, the indexed citation is validated against records in the MeSH Vocabulary File during operation of the input/edit routines. These programs validate the index terms and extract the chemical term (NM), RN/EC numbers (RN) for chemical terms and category D descriptors, and indexing instructions for the chemical term (HM). The chemical term and its associated RN are printed in the RN field of the MEDLINE unit record and the major or minor descriptors used to index the term are printed with appropriate subheadings and print indicators in the MH field of the unit record (see below).

<u>Input of Non-Descriptor Chemical Term on Index Citation Form</u>	<u>Chemical Record in MeSH File</u>	<u>Output in MEDLINE Unit Record</u>
MH-	NM- Diphenidol	RN- 972-02-1 (Diphenidol)
MH-	RN- 972-02-1	MH- Piperidines/*PHARMACODYNAMICS
NM- DIPHENIDOL/*pharm	SY- Difenidol	MH-
	SY- Vontrol	MH-
	HM- *PIPERIDINES	

MeSH Category D headings which have RN/EC numbers in their MeSH descriptor records also print in the MEDLINE unit record in the RN field accompanied by the RN/EC number, and in the MH field with the appropriate subheadings and print designations (see below).

<u>Input of Descriptor Term from Category D on Index Citation Form</u>	<u>Descriptor Record in MeSH File</u>	<u>Output in MEDLINE Unit Record</u>
MH-	MH- Ouabain	RN- 630-60-4 (Ouabain)
MH-	RN- 630-60-4	MH- Ouabain/*METABOLISM
MH- OUABAIN/*metab	DT- 1	MH-
	DC- 1	MH-
	MN- D4.808.155.160.861.600	
	MN- D9.....	
	MN- D18.....	

Group terms such as PYRIDINES or pharmacological action terms such as ANTIEMETICS do not carry registry numbers.

SEARCHING CHEMICALS IN MEDLINE

Directly searchable elements in the MEDLINE record are:

- 1) the preferred name of the substance and synonyms mapped to it, both with the qualifier NM;
- 2) name fragments (NF) of the substance and its synonyms;
- 3) Registry or Enzyme Commission numbers with the qualifier RN.

These elements are combined for printing in the composite RN field of the unit record; although each component is searched separately with the mnemonic NM or RN, both are displayed in response to a PRINT RN command. The RN field is also displayed in response to the PRINT FULL command (see below).

- AU - Alousi AA
- AU - Farah AE
- AU - Leshar GY
- AU - Opalka CJ Jr
- TI - Cardiotonic activity of amrinone--Win 40680 (5-amino-3,4'-bipyridine-6(1H)-one).
- LA - Eng
- RN - 60719-84-8 (Amrinone)
- RN - 60-94-2 (Adenosine Cyclic Monophosphate)
- RN - EC 3.6.1.3 (Adenosine Triphosphatase)
- RN - EC 1.4.3.4 (Monoamine Oxidase)
- RN - 50-55-5 (Reserpine)
- MH - Adenosine Cyclic Monophosphate/METABOLISM
- MH - Adenosine Triphosphatase/METABOLISM
- MH - Adrenergic Beta Receptor Blockaders/PHARMACODYNAMICS
- MH - Aminopyridines/*PHARMACODYNAMICS
- MH - Anesthesia
- MH - Animal
- MH - Blood Pressure/DRUG EFFECTS
- MH - Cardiotonic Agents/METABOLISM
- MH - Cats

MH - Dogs
 MH - Electrophysiology
 MH - Female
 MH - Heart Failure, Congestive/ETIOLOGY
 MH - Heart Rate/DRUG EFFECTS
 MH - Histamine Antagonists/PHARMACODYNAMICS
 MH - Injections, Intravenous
 MH - Male
 MH - Monoamine Oxidase/METABOLISM
 MH - Myocardial Contraction/DRUG EFFECTS
 MH - Phosphodiesterases/METABOLISM
 MH - Reserpine/PHARMACODYNAMICS
 SO - Circ Res 1979 Nov;45(5):666-77

If a searcher has a synonym for a compound listed in the chemical term records in MeSH, he may obtain the Registry Number or Enzyme Commission number from the record, e.g., entering the term Vontrol will give the record for diphenidol, which includes the registry number. If a searcher has a synonym which is not listed in the chemical term records in MeSH or in the descriptor records, he may obtain the registry number from CHEMLINE and enter this into a MEDLINE search, e.g., cephadol is not listed in either the descriptor or chemical records in MeSH. Entering CHEMLINE, the registry number 972-02-1 is retrieved, the record showing cephadol to be a synonym for diphenidol. A MEDLINE search using 972-02-1 (RN) will retrieve all citations for diphenidol.

SS 1/C?
 USER:
 DIPHENIDOL (NM)
 PROG:
 SS (1) PSTG (5)

SS 2/C?
 USER:
 PRT 1 TI, MH, RN, SO
 PROG:

1
 TI - THE EFFECT OF DIPHENIDOL ON OUABAIN CARDIOTOXICITY IN THE CAT.
 MH - ANIMAL
 .
 .
 .
 MH - OUABAIN/*ANTAGONISTS & INHIBITORS
 MH - PIPERIDINES/*PHARMACODYNAMICS
 RN - 972-02-1 (DIPHENIDOL)
 RN - 630-60-4 (OUABAIN)
 SO - BR J PHARMACOL 1978 MAY;63(1):73-7

Using the registry number, the same results are achieved:

USER:
 972-02-1 (RN)
 PROG:
 SS (1) PSTG (5)

SS 2/C?
 USER:
 PRT 1 TI, MH, RN, SO
 PROG:

1
 TI - THE EFFECT OF DIPHENIDOL ON OUABAIN CARDIOTOXICITY IN THE CAT.
 MH -
 MH -
 MH - OUABAIN/*ANTAGONISTS & INHIBITORS
 MH - PIPERIDINES/*PHARMACODYNAMICS
 RN - 972-01-1 (DIPHENIDOL)
 RN - 630-60-4 (OUABAIN)
 SO - BR J PHARMACOL 1978 MAY;63(1):73-7

Entering ouabain as a chemical term (NM) or as a MeSH heading (MH) or using its registry number 630-60-4 (RN) will also retrieve these citations.

There are therefore five possible entry points for searching non-descriptor chemicals in MEDLINE:

1. by name of substance
2. by RN/EC number
3. by synonym
4. by text word occurrence
5. by name fragments

There are also six possible entry points for descriptor chemicals in MeSH:

1. by main heading
2. by entry term
3. by name of substance
4. by RN/EC number
5. by text word occurrence
6. by name fragments

AVLINE UPDATE - FEBRUARY 1980
 Alice E. Jacobs, Technical Services Division, NLM

I. Status Report

With the addition of 1,644 titles in 1979, AVLINE now contains 8,247 items. Citations to educational items (Category A) compose 79.5% of the data base; citations to lecture items (Category B) compose 20.5%.

II. Searching Hints

1. The values in the Media Description (MD) field allow the user to limit searches to specific physical characteristics, such as SOUND, COLOR, 3/4 IN, 16 MM, etc.

EXAMPLES: a. *EYE DISEASES AND SOUND (MD) AND 2X2 IN (MD)

b. *FRACTURES AND 35 MM (MD) AND SOUND (MD)

2. In combination with the Media (ME) field, the Media Description (MD) field permits the user to find titles produced or available in a desired format.

EXAMPLES: a. *EYE DISEASES AND SLIDE (ME) AND SOUND (MD)

b. *FRACTURES AND FILMSTRIP (ME) AND SOUND (MD)

Strategies 1a. and 2a. above should retrieve the same number of postings, as will 1b. and 2b.

3. Searching by form subheading limits retrieval to the principal medium cataloged by NLM. The audiovisual(s) may exist in other formats, but these will not be retrieved by this search.

EXAMPLE: *KNEE JOINT AND VIDEOCASSETTES (SH)

4. Stringsearching the Call Number (CA) field identifies the actual physical format NLM owns and shelves.

EXAMPLE: TS (CA) :ST: or :SC:

NLM media code
for slide/tape

NLM media code
for slide/cassette

III. AVLINE Specialties

Part 9, Appendix C, of the 1980 edition of the NLM Online Services Reference Manual has been updated to include several additions, deletions, and changes. A replacement page for the manual is enclosed with this issue.

MONTHLY HINT: USING THE COMMENT COMMAND

MEDLARS Management Section receives a number of questions from users through the online COMMENT command, a fast and effective way to communicate with MMS. The comments are retrieved in MMS twice a day, at 9 a.m. and 4 p.m. Searchers may find the following clarification of the COMMENT command useful in enabling them to take better advantage of this capability. Note the annotations that follow this example.

SS 1 /C?
 USER:
 COMMENT
 PROG:
 REPLY? (YES/NO)

User enters COMMENT command; the system offers the option to receive a reply; this user has chosen to receive a reply (not all comments require replies).

USER:
 YES
 PROG:
 NAME?

System queries user for name/address information; user supplies answers.

USER:
 JANE DOE - 313/555-2222
 PROG:
 ADDRESS?

USER:
 GENERAL HOSPITAL LIBRARY
 PROG:
 CITY, STATE (PLEASE DO NOT ABBREVIATE), AND ZIP-

USER:
 DETROIT, MICHIGAN 48201
 PROG:
 CONT. OR FINISHED-

System prompts user with CONT. OR FINISHED-; user enters comment line-by-line (CONT. actually means type one line of comment); user indicates that comment has been completed by entering FINISHED.

USER:
 I MAILED A STORED ADDRESS LAST WEEK TO MMS. WILL I
 PROG:
 CONT. OR FINISHED-

USER:
 BE OFFICIALLY NOTIFIED WHEN IT IS EFFECTIVE, OR WILL
 PROG:
 CONT. OR FINISHED-

USER:
 THE PROGRAM JUST STOP ASKING FOR MY ADDRESS? THANKS.
 PROG:
 CONT. OR FINISHED-

USER:
 FINISHED
 PROG:

SS 1 /C?
 USER:

Three points that will enable you to use this command and receive a prompt reply are:

1. Be sure to answer YES to the REPLY? (YES/NO) query. MMS receives some anonymous questions that cannot be answered.
2. Add your telephone number on the NAME line so that a reply may be made by telephone if appropriate.
3. Do not enter CONT. after the CONT. OR FINISHED- query; this results in a message composed entirely of the work 'CONT.' being sent to MMS.

NEW SERIALS ANNOUNCEMENT - JANUARY 1980
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 INFLAMMATION RESEARCH
1,1979--
RAVEN PRESS
NEW YORK
RAVEN PRESS, 1140 AVENUE OF THE AMERICAS,
NEW YORK, NY 10036
W1 AD648
A14225000</p> | <p>CANCER, STRESS AND DEATH
1,1979--
PLENUM PUBLISHING
NEW YORK
ON ORDER
C06055000</p> |
| <p>ALCOHOL AND DRUG ABUSE YEARBOOK/DIRECTORY
1979/80--
VAN NOSTRAND REINHOLD
NEW YORK
VAN NOSTRAND REINHOLD COMPANY, 135 WEST
50TH STREET, NEW YORK, NY 10020
W1 22 A41 A2
A20270000
\$39.50</p> | <p>CARDIOLOGY DIGEST
14N8/9, AUG/SEP 1979--
MEDICAL DIGEST
CONTINUES JOURNAL OF CONTINUING EDUCATION
IN CARDIOLOGY.
NORTHFIELD IL
MEDICAL DIGEST, INC., NORTHFIELD, IL 60093
IN PROCESS
C07361000</p> |
| <p>L ALTRA MEDICINA
1,1978--
RED./STUDIO REDAZIONALE
SOME VOLS. ISSUED IN REVISED EDS.
COMO
W1 AL996G
A22325000</p> | <p>COMPLEX CARBOHYDRATES OF NERVOUS TISSUE
1,1979--
PLENUM PUBLISHING
NEW YORK
ON ORDER
C34130000</p> |
| <p>IM ANYALS OF EMERGENCY MEDICINE
9,1980--
AMERICAN COLLEGE OF EMERGENCY PHYSICIANS
CONTINJES JACEP.
ON ORDER
A34870000</p> | <p>CONTINUING MEDICAL EDUCATION SYLLABUS AND
SCIENTIFIC PROCEEDINGS IN SUMMARY FORM
131ST, 1978--
AMERICAN PSYCHIATRIC ASSOCIATION
CONTINUES SCIENTIFIC PROCEEDINGS IN SUMMARY
FORM AMERICAN PSYCHIATRIC ASSOCIATION.
INCLUDES SUMMARIES FROM THE ANNUAL MEETING
OF THE AMERICAN PSYCHIATRIC ASSOCIATION.
WASHINGTON
W1 C0777
C47380000</p> |
| <p>ASSOCIATION OF RADICAL MIDWIVES NEWSLETTER
1979?--
ASSOCIATION OF RADICAL MIDWIVES
SHEFFIELD ENGLAND
8 BURNGREAVE BANK, SHEFFIELD 4, ENGLAND
ON ORDER
A70316090</p> | <p>DERMATOLOGY DIGEST
18N8/9, AUG/SEP 1979--
MEDICAL DIGEST
CONTINUES JOURNAL OF CONTINUING EDUCATION
IN DERMATOLOGY.
NORTHFIELD IL
MEDICAL DIGEST, INC., 444 FRONTAGE RD.,
NORTHFIELD, IL 60093
IN PROCESS
D05950000</p> |
| <p>AVMA DIRECTORY
1980--
AMERICAN VETERINARY MEDICAL ASSOCIATION
CONTINUES DIRECTORY - AMERICAN VETERINARY
MEDICAL ASSOCIATION.
SCHAMSBURG IL
ON ORDER
A76615000</p> | |

DEVELOPMENTS IN STRESS ANALYSIS

1,1979--
 APPLIED SCIENCE PUBLISHERS
 BARKING ESSEX ENGLAND
 20 RIPPLESIDE, COMMERCIAL ESTATE, RIPPLE
 ROAD, BARKING, ESSEX, ENGLAND
 ON ORDER
 D00393000
 \$30.00

DIRECTORY OF ACCREDITED INSTITUTIONS WITH
 PROGRAMS IN BIOCOMMUNICATIONS
 2ND, MAY 1977--
 HEALTH SCIENCES COMMUNICATIONS ASSOCIATION
 CONTINUES DIRECTORY OF ACCREDITED PROGRAMS
 IN BIOCOMMUNICATIONS.
 MAUMATOSA MI UNITED STATES
 HEALTH SCIENCES COMMUNICATIONS ASSOCIATION,
 2343 N. 115TH ST., MAUMATOSA, MI 53226
 IN PROCESS
 D11350000

DRUG AND ALCOHOL ABUSE

1,1979--
 PLENUM PUBLISHING
 NEW YORK UNITED STATES
 ON ORDER
 D20350000

EXPERIMENTAL AND CLINICAL PSYCHIATRY

1,1979--
 MARCEL DEKKER
 NEW YORK UNITED STATES
 IN PROCESS
 E19350000

FAMILY PRACTICE RECERTIFICATION

1N1, APR 1979--
 MEDICAL RECERTIFICATION ASSOCIATES
 WHITE PLAINS NY UNITED STATES
 MEDICAL RECERTIFICATION ASSOCIATES, 190
 EAST POST ROAD, WHITE PLAINS, NY 10601
 TELEPHONE (914) 948-7600.
 IN PROCESS
 F01090000

HAIGAN KOGIROKU

1, DEC 1978--
 YAHADO RINSHO IGAKU KONMAKAI
 KANAWANA JAPAN
 YAHADO RINSHO IGAKU KONMAKAI; 1-25-15
 TSURMA, YAHADO, KANAWANA, JAPAN
 IN PROCESS
 H00590000

HYPERBARIC OXYGEN REVIEW

1,1980--
 PLENUM PUBLISHING CORPORATION
 NEW YORK UNITED STATES
 ON ORDER
 H23790000
 \$45.00

ILLINOIS PHARMACIST

41N1, SEPT 1979--
 ILLINOIS PHARMACISTS ASSOCIATION
 CONTINUES ILLINOIS JOURNAL OF PHARMACY.
 SPRINGFIELD IL UNITED STATES
 IN PROCESS
 I05330000

IN PURSUIT OF WELLNESS

1N1, MAR 1979--
 CALIFORNIA DEPT. OF MENTAL HEALTH, OFFICE
 OF PREVENTION
 CALLED ALSO: QUESTIONS AND ANSWERS? - IN
 PURSUIT OF WELLNESS.
 SAN FRANCISCO UNITED STATES
 DEPARTMENT OF MENTAL HEALTH OFFICE OF
 PREVENTION, 2340 IRVING STREET, SUITE 108,
 SAN FRANCISCO, CA 94122. TELEPHONE (415)
 557-3470
 MI IN103
 I06770000

JAHRESTAGUNG DES BERUFSVERBANDES DER
 KINDERAEERZTE DEUTSCHLANDS E. V.

1979?--
 WISSENSCHAFTLICHER DIENST ALETE
 MÜNCHEN GERMANY, WEST
 MI JA450
 J03090000

JOURNAL OF BIOSCIENCES

1, MAR 1979--
 PRINTS INDIA
 NEW DELHI INDIA
 11 DARYA GANJ, NEW DELHI - 110002, INDIA
 ON ORDER
 J14655000
 \$10.00

JOURNAL OF ECOLOGICAL AND LIFE CHEMISTRY

1,1979--
 GORDON AND BREACH
 NEW YORK UNITED STATES
 ON ORDER
 J19350000

JOURNAL OF FAMILY ISSUES

1N1, MAR 1980--
 SAGE PUBLICATIONS
 BEVERLY HILLS CA UNITED STATES
 SAGE PUBLICATIONS P.O. BOX 5024 BEVERLY
 HILLS, CA 90210
 ON ORDER
 J21090000
 \$30.00

JOURNAL OF OFFENDER COUNSELING, SERVICES
 AND REHABILITATION

4N1, FALL 1979--
 HAKORTH PRESS
 CONTINUES OFFENDER REHABILITATION.
 NEW YORK UNITED STATES
 IN PROCESS
 J32570000

IN JOURNAL OF OTOLARYNGOLOGY. SUPPLEMENT

N3, 1977--
 ORL MEDICAL PUBLICATIONS LIMITED
 CONTINUES CANADIAN JOURNAL OF
 OTOLARYNGOLOGY. JOURNAL CANADIEN D
 OTOLARYNGOLOGIE. SUPPLEMENT.
 TORONTO CANADA
 MI J0812A
 J33640000

NLN TECHNICAL BULLETIN - FEB 80

JOURNAL OF PRISON HEALTH
HUMAN SCIENCE PRESS
NEW YORK UNITED STATES
ON ORDER
J35890000

KOMPENDIUM DER KLINISCHEN TUMORPATHOLOGIE
1,1979--
VERLAG GERHARD WITZSTROCK
BADEN-BADEN GERMANY, WEST
IN PROCESS
K08650000

MEDICAL HYPNOANALYSTS
1,1980--
SOCIETY OF MEDICAL HYPNOANALYSTS
MEMPHIS TN UNITED STATES
SOCIETY OF MEDICAL HYPNOANALYSTS, 920 EAST
DRIVE, MEMPHIS, TN 38117
ON ORDER
M14410000

MONOGRAFIAS DEL HOSPITAL PSIQUIATRICO
PROVINCIAL ROMAN ALBERCA
N1,1978--
IMPRENTA PROVINCIAL ACISCLO DIAZ
MURCIA SPAIN
IN PROCESS
M44835000

MONOGRAPHS OF THE GIOVANNI LORENZINI
FOUNDATION
1,1978--
SP MEDICAL AND SCIENTIFIC BOOKS
NEW YORK UNITED STATES
M1 M0569QR
M46750000

NURSING LAW AND ETHICS
1ST,1976/77--
AMERICAN SOCIETY OF LAW AND MEDICINE
BOSTON UNITED STATES
AMERICAN SOCIETY OF LAW AND MEDICINE, 454
BROOKLINE AVENUE, BOSTON, MA 02215
ON ORDER
N34964000

OESTERREICHISCHE DROGISTEN-ZEITUNG
33N?, 1979--
HAMANN UND SINEK
CONTINUES OEDZ. OESTERREICHISCHE
DROGISTEN-ZEITUNG.
WIEN AUSTRIA
IN PROCESS
003410000

ORL AND ALLERGY DIGEST
41N9/9,AUG/SEPT 1979--
MEDICAL DIGEST
CONTINUES JOURNAL OF CONTINUING EDUCATION
IN ORL AND ALLERGY.
NORTHFIELD IL UNITED STATES
IN PROCESS
010450000

OXFORD REVIEWS OF REPRODUCTIVE BIOLOGY
1,1979--
OXFORD UNIVERSITY PRESS
OXFORD ENGLAND
1600 POLLITT DRIVE, FAIR LAWN, NJ
ON ORDER
014030000

PHARMAKOTHERAPIE
1,1978--
DUSTRI-VERLAG
DEISENHOFFEN BEI MUECHEN GERMANY, WEST
ON ORDER
P11965000
\$24.00

POPULATION STUDIES TRANSLATION SERIES
N1,1977--
ESCAP-UNITED STATES
NEW YORK UNITED STATES
IN PROCESS
P19930000

PSYCHIATRY DIGEST
40N5/9, AUG/SEP 1979--
MEDICAL DIGEST
CONTINUES THE JOURNAL OF CONTINUING
EDUCATION IN PSYCHIATRY.
NORTHFIELD IL UNITED STATES
IN PROCESS
P53790000

REGULATORY PEPTIDES
1,FEB 1980--
ELSEVIER/NORTH HOLLAND
AMSTERDAM NETHERLANDS
ON ORDER
R10775000
\$80.50

ST. LOUIS METROPOLITAN MEDICINE
1,1979--
ST. LOUIS MEDICAL SOCIETY
CONTINUES ST. LOUIS MEDICINE.
ST LOUIS MO UNITED STATES
ST. LOUIS MEDICAL SOCIETY, 3839 LINDELL
BLVD., ST. LOUIS, MO 63108
IN PROCESS
S01289500

SOURCE BOOK OF LIBRARY TECHNOLOGY
(MICROFICHE)
1980--
AMERICAN LIBRARY ASSOCIATION, LIBRARY
TECHNOLOGY REPORTS
CHICAGO UNITED STATES
LIBRARY TECHNOLOGY REPORTS, MR. HOWARD
WHITE, AMERICAN LIBRARY ASSOCIATION, 50
EAST HURON STREET, CHICAGO, IL 60611
ON ORDER
S31450000
\$30.00

NLM TECHNICAL BULLETIN - FEB 80

SPECIAL TOPICS IN ENDOCRINOLOGY AND
METABOLISM
1,1979--
LISS
NEW YORK
W1 SP392
S35239000

UNITED STATES

SUMMARY OF ACCEPTANCES OF RECOMMENDED
WORLDWIDE AND REGIONAL CODEX STANDARDS AND
RECOMMENDED CODEX MAXIMUM LIMITS FOR
PESTICIDE RESIDUES
1,1978--
FOOD AND AGRICULTURE ORGANIZATION OF THE
UNITED NATIONS WORLD HEALTH ORGANIZATION
ROME ITALY
VIA DELLE TEPHE DI CARACALLA, 00100 ROME,
ITALY
IN PROCESS
S45390000

USA-SSSR JOINT US-USSR SYMPOSIUM ON
HYPERTENSION
1ST,1978--
U.S.DHEW, PUBLIC HEALTH SERVICE, NATIONAL
INSTITUTES OF HEALTH, OFFICE OF THE
DIRECTOR NATIONAL HEART, LUNG, AND BLOOD
INSTITUTE
BETHESDA MD UNITED STATES
U.S. DHEW PUBLIC HEALTH SERVICE, NATIONAL
INSTITUTES OF HEALTH, OFFICE OF THE
DIRECTOR, NATIONAL HEART, LUNG, AND BLOOD
INSTITUTE, BETHESDA, MD 20014
IN PROCESS
U05415500

VOLUNTARY ACTION
N1,DEC 1979--
NATIONAL COUNCIL OF SOCIAL SERVICE
CONTINUES SOCIAL SERVICE QUARTERLY.
LONDON ENGLAND
26 BEDFORD SQUARE, LONDON, WC1B 3HU, ENGLAND
ON ORDER
V10785000

LIST OF MONOGRAPHS INDEXED
MARCH 1980

C

*Continuing evaluation of the use of fluorides / edited by
Erling Johansen, Donald R. Taves, and Thor O. Olsen.
— Boulder, Colo. : Published by Westview Press for the
American Assn. for the Advancement of Science, 1979.
xiviii, 321 p. : ill. — (AAAS selected symposium ; 11)
Papers from the AAAS annual meeting held in Denver,
Colo., Feb. 1977.*
I. Fluorides - adverse effects - congresses 2.
Fluorides - congresses I. Johansen, Erling, ed.
II. Olsen, Thor O., ed. III. Taves, Donald R., ed.
IV. American Association for the Advancement of
Science. V. Series
ISBN 0-89158-438-0 LC: 78-24745
OxNLM: W3 A101S v.11 1977
OxNLM: [QV 282 C762 1977]
IM Cht. No. 7909539



THE NLM TECHNICAL BULLETIN

MARCH 1980

NO.

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ENCLOSURES:

INDEXING TECHNICAL NOTES 223-226

LIST OF SERIALS AND MONOGRAPHS INDEXED
FOR ONLINE USERS, 1980

DATA BASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	8,575	THROUGH 1980	04 APR 80	
MED66	501,802	JAN 66-DEC 68	08 DEC 79	
MED69	668,258	JAN 69-DEC 71	08 DEC 79	
MED72	669,106	JAN 72-DEC 74	08 DEC 79	
+MED75	642,953	JAN 75-DEC 76	08 DEC 79	
+MED77	253,234	JAN 77-DEC 77	08 DEC 79	
*BIOETHICS	8,930	JAN 73-SEP 79	27 NOV 79	7911(EM)
*CANCERLIT	202,653	JAN 63-MAR 80	17 MAR 80	8003(EM)
*CANCERPROJ	20,557	1976-1980	24 JAN 80	8001(EM)
*CATLINE	197,195	1965-1980	04 APR 80	
CHEMLINE	439,817		05 JAN 80	
*CLINPROT	1,669		15 OCT 79	7909(EM)
*EPILEPSY	25,635	1945-PRESENT	16 SEP 79	
*HEALTH	140,854	JAN 75-APR 80	17 MAR 80	8004(EM)
*HISTLINE	40,160		24 MAR 80	8003(EM)
MEDLINE	450,886	JAN 78-APR 80	08 MAR 80	8004(EM)
MESH VOC	15,087	1980	08 DEC 79	
*NAME AUTH	109,230		08 MAR 80	
RTECS	36,851	1978	07 SEP 79	
SDILINE	22,497	APR 80	08 MAR 80	
*SERLINE	34,176	1979	26 FEB 80	
TDB	2,514		22 JAN 80	
TOXLINE	692,394		24 MAR 80	8003(EM)
CBAC	360,958	1974-VOL 31(4,5)		
TOXBIB	135,268	1974-APR 80		
IPA	37,717	1974-VOL 16(23)		
HEEP	80,243	1974-FEB 80		
PESTAB	18,243	1974-JAN 80		
EMIC	27,701	1960-DEC 79		
ETIC	16,497	1950-AUG 79		
RPROJ	14,417	JAN 79-MAY 80		
TOXBACK	379,299		26 FEB 78	
CBAC	167,668	1965-1973		
TOXBIB	127,104	1968-1973		
IPA	19,188	1970-1973		
HEEP	24,680	1971-1973		
HAPAB	12,816	1966-1973		
HAYES	10,043	1940-1966		
TMIC	4,552	1971-1975		
TERA	13,248	1960-1974		

- 1) * = FILES AVAILABLE AT NLM ONLY.
- 2) + = THESE BACKFILES CONTAIN CITATIONS HAVING EITHER A PUBLICATION DATE OR ENTRY DATE FOR THE DATES COVERED.
- 3) MEDLINE BACKFILES AND TOXBACK ARE AVAILABLE ONLY THRU OFFSEARCH AT NLM AND SUNY.

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Sharon L. Valley, Ph.D.

Technical Notes Editor: Carolyn B. Tilley

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MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20209
301/496-6193

TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY FOR SPECIAL NOTICES AND MESSAGES

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

SPECIAL LIST INDICATOR - The Special List Indicator (LI) field may now have multiple values. For example, a non-Index Medicus journal may be indexed for both the Health Planning & Administration file and the POPLINE file. Appropriate records would then have two LI tags:

LI - H
LI - P

CANCERPROJ SEARCHING (Manual Part 17) - Hint: Now that SAVESEARCH is here, you can save your search strategy in CANCERLIT for immediate use in CANCERPROJ.
- Below is the latest changed subject caption for the CANCERPROJ index term listing in numeric code sequence.

038440950 Other Grading & Related Histo
(CHANGED FROM) Other Gradind & Related Histo

A semiannual printing of the Alphabetical and Hierarchical Listings will be available by the end of April. You can request these listings by writing either MEDLARS Management Section or the International Cancer Research Data Bank of the National Cancer Institute. Copies will automatically be sent to users who have requested copies since February 1980.

SUNY USE - Please use SUNY as your primary system whenever possible. Remember that additional files have been added to SUNY (TOXLINE, TOXBACK, RTECS, and TDB). Increased usage of files at SUNY will relieve NLM of extremely heavy usage.

NOTIFICATION OF PRICE CHANGES AND LIFTING OF MORATORIUM (Manual 1.6) - A letter was sent to all users dated March 25, 1980, signed by Dr. Joseph Leiter, announcing price increases to become effective July 1 and October 1, 1980 and lifting of the moratorium on new users. Please call MEDLARS Management Section (JUL/496-6193) if you did not receive this letter.

AVLINE (Manual Part 9) - New and modified data elements for the AVLINE file are discussed in an article by Alice Jacobs on page 8 of this issue.

- TB INDEX** - Appendix A is an index to NLM Technical Bulletin issues January 1978 through December 1979.
- PHONES LIST** - An updated list of phones for accessing NLM and SUNY will be included with the April 1980 issue of the Technical Bulletin.
- INDEXING TECHNICAL NOTES** - Recent revisions to Indexing Technical Notes 223-226 are enclosed with this issue.
- ELHILL 3.2 HINTS** - During the past few weeks since ELHILL 3.2 has been operational, MMS has answered many inquiries about the new capabilities. The following hints are based on calls received from users.

PROFILE

PAGELength--The **PAGELength** maximum is presently 50 lines rather than 100, as was stated in the Manual replacement pages Parts 3.7 and 4.9.17A. The maximum length may be increased or decreased in the future after evaluation of system impact.

PAGEWIDTH-- **PAGEWIDTH** values are terminal dependent, i.e., you must determine how many characters per line your terminal can print before it "wraps" to the next line. If you have a terminal that can print more than 72 characters per line and use TELENET to access the computer, when you set your **PAGEWIDTH** via **PROFILE** to greater than 72 you will still most probably encounter problems with lines "wrapping." This is a problem between TELENET and the computer. The problem will be corrected soon; however, there is a method available presently to overcome this "wrapping" problem if incurred. When lines wrap, type an @ sign after an ELHILL USER: cue to get back into TELENET. After TELENET responds with an @ sign, type SET? 10:132 followed by a carriage return. At the next @ symbol received from TELENET, type CONT to be returned to ELHILL at a USER: cue.

SAVESEARCH and SAVE

NAMING SEARCHES--The computer does not ask for **SEARCHNAME** after typing **SAVESEARCH** as illustrated in the Manual replacement pages, Part 4.9.22. Instead, you are prompted for the search name after you have typed the word **FINISHED** to end the search strategy.

--The same general naming conventions used for **STORESEARCH** (Manual 5.8) apply to **SAVESEARCH** and **SAVE**.

- a. Only one search may be saved under a given name.
- b. Names cannot be purely numeric.
- c. Names cannot contain Boolean operators (AND, OR, AND NOT). Neither a user nor MMS can remove "saved" searches with Boolean operators as part of the name.
- d. Names cannot exceed 30 total characters in length (spaces count as characters).

GENERAL

SAVESEARCH and SAVE are designed primarily to retain small frequently used search strategies and/or for executing the same search in more than one file online. If you save complex or large search strategies e.g., journal holdings, you may quickly use up your SAVESEARCH/SAVE environment or you may be unable to execute the search online due to system limitations. Use STORESEARCH for large, complex searches. Also, be careful if you have included MeSH Headings in your "saved" strategy to execute it only in files containing MeSH headings.

The example in the manual replacement pages, Part 4.9.22 is only for illustrative purposes; it will generate an overflow condition and the search cannot be executed.

LIST OF
SERIALS &
MONOGRAPHS
INDEXED, 1980

- As promised in the February Technical Bulletin (Technical Notes, page 4), one copy of the new publication List of Serials and Monographs Indexed for Online Users, 1980 is enclosed with this issue.

PRICE AND PRIME TIME CHANGES ANNOUNCED
 Joseph Leiter, Ph.D
 Associate Director for Library Operations, NLM

Effective July 1, 1980, new pricing structures for domestic users will be implemented for NLM online services. The rise in charges for offline prints is necessary to recover increased costs, particularly royalty payments. TOXLINE, TOXBACK and CHEMLINE online hourly rates will increase to reflect average royalty charges assessed by proprietary data base owners (i.e. Chemical Abstracts Service, BIOSIS, and the American Society for Hospital Pharmacists). These royalties are paid to the data base owners for the use of their records in TOXLINE/TOXBACK/CHEMLINE. The user charge will be increased again on October 1, 1980 when Chemical Abstracts fees will be increased again.

Beginning July 1, 1980 prime time will be defined as 10:00 a.m. to 5:00 p.m. Monday through Friday Eastern Time. All other time will be defined as non-prime time. The new charges are itemized below.

TOXLINE/TOXBACK/CHEMLINE

Date	Online Hourly Rates	Page Charges
July 1	Non-prime \$13.00	\$0.21
	Prime \$20.00 (includes royalty charges of \$5.00)	(includes royalty charges of \$0.06)
October 1	Non-prime \$21.00	\$0.27
	Prime \$28.00 (includes royalty charges of \$13.00)	(includes royalty charges of \$0.12)

ALL OTHER NLM DATA BASES

Date	Online Hourly Rates (no changes)	Page Charges
July 1	Non-prime \$ 8.00	\$0.15
	Prime \$15.00	
October 1	Non-prime \$ 8.00	\$0.15
	Prime \$15.00	

MONTHLY HINT: EFFICIENT STRINGSEARCHING

A significant portion of the service calls about searching received in MMS involves the use of the stringsearching capability. Stringsearching consumes more processing time and computer resources than any other search operation, and causes a substantial number of OFFSEARCH purges. To help conserve users' connect time and NLM computer resources, we offer the following recommendations:

1. In General -

- a) Always limit retrieval as much as possible BEFORE stringsearching. Examine the word or words to be stringsearched and identify items that might be retrieved as Text Words first:

SS 1 - (TW) MIDLIFE AND CRISIS

SS 2 - TS (TI) : MIDLIFE CRISIS:

or searched directly, e.g., 5 AND ENG (LA). For online postings of over 200, there is no advantage to stringsearching for items that can be searched directly, such as languages or MeSH headings.

- b) Stringsearching the same retrieval set in consecutive search statements and then combining them may yield unpredictable results: it may work perfectly, it may give false results of 1 or *NONE, it may cause a RESTART (that sudden HELLO FROM ELHILL ... message you receive in the middle of your search), or it may stop OFFSEARCH processing. Instead, consolidate the instruction, using post-qualification:

SS (4) PSTG (198)

SS 5/C?

USER:

TS (TI) : CODEINE SULFATE: OR : CODEINE SULPHATE: OR

PROG:

CONT 5-

USER:

: CODEINE SULFATE: (AB) OR : CODEINE SULPHATE: (AB)

This way is much more reliable than using two separate search statements.

- c) Remember that different data bases have different stringsearch defaults, so that entering

SS 6 - TS :3-DAY: OR :3-DAY: (AB)

will search the Title (TI) and Abstract (AB) in MEDLINE but will search the abstract twice in TOXLINE or CANCERLIT. The latter duplication may cause unpredictable results as described in b) above. Whenever you are

storing or saving a stringsearch for use in dissimilar data bases (e.g., MEDLINE and TOXLINE) always specify each data element, rather than relying on defaults:

SS 6 - TS (TI) :3-DAY: OR :3-DAY: (AB)

2. In a Storage Mode (OFFSEARCH, STORESEARCH, SAVESEARCH) -

NEVER use stringsearch for items that may be searched directly, such as ENG (LA), EVEN if you are in the PSTG option and there are fewer than 200 citations to stringsearch online. An excellent rule of thumb is that if there is a choice between searching directly or stringsearching, direct searching is more efficient.

AVLINE UPDATE

Alice E. Jacobs, Technical Services Division, NLM

AVLINE has been updated to reflect 1980 MeSH and regenerated to accommodate the following new fields and changes.

I. New Fields

1) Encoding Level (EL)

The EL field is searchable and describes the status of a record. In AVLINE, the values are: F = Full level; 8 = CIP. Please note that CIP records are no longer tagged in the RD field as CIP (RD), but are retrievable using this new field in the form 8 (EL).

2) International Standard Serial Number (IS)

ISSN information for audiovisual serials is now directly searchable and printable. Search this field as a nine (9) character string including numerals and a single hyphen, qualified by (IS).

3) International Standard Book Number (BN)

On new records, this field is directly searchable and printable. Search the ISBN as a thirteen (13) character string including numerals and hyphens, qualified by (BN).

4) LC Card Number (LC)

On new records, the Library of Congress Card Number is directly searchable and printable. Search the LC number as given, including the hyphen and qualify with (LC).

5) Abstracting & Indexing Tag (AI)

As in CATLINE and SERLINE, records in AVLINE now contain the value AV in this field to indicate audiovisual serials which are indexed in the Index to Audiovisual Serials in the Health Sciences. For searching, please note that the tag INDEXED (RD) has been deleted; to retrieve citations to serials included in this publication, use AV (AI).

II. Modifications

1) Unique Identifier (UI)

The UI field is now an eight (8) character field, ending in the letter "A" (e.g., 7604404A). It is sequentially assigned as citations are added to AVLINE and is directly searchable and printable.

2) General Notes (GN) and Review Data (RD)

The learning method tag LECTURE SUPPORT has been standardized on all records to SUPPORT in the General Notes (GN) field and in the searchable Review Data (RD) field.

3) MeSH Heading (MH)

The check tag HUMAN has been deleted from all records.

NEW 1980 SUBHEADINGS FOR CATALOGING ONLY

The following subheadings for cataloging only have been added to the current MeSH file since publication of the 1980 MeSH. You may wish to add them to the appropriate lists in the introduction to your 1980 Annotated Alphabetic MeSH and 1980 Index Medicus MeSH.

FORM SUBHEADINGS

1) audiocassettes - legislation

Under topical headings for works that consist of laws or discussions of laws on the subject identified, issued in audiocassette format.

2) audiocassettes - statistics

Under topical headings for discussions of numerical data, issued in audiocassette format.

3) audiocassettes - terminology

Under topical headings for non-official discussions of technical terms or expressions used in a special field, issued in audiocassette format.

4) filmstrips - legislation

Under topical headings for works which consist of laws or discussions of laws on the subject identified, issued in filmstrip format.

5) slides - atlases

Under scientific and technical headings for collections of illustrative plates, charts, tables, etc., issued in slide format.

6) slides - legislation

Under topical headings for works that consist of laws or discussions of laws on the subject identified, issued in slide format.

7) slides - terminology

Under topical headings for non-official presentation/discussion of technical terms or expressions used in a special field; issued in slide format.

8) videocassettes - legislation

Under topical headings for works which consist of laws or discussions of laws on the subject identified, issued in videocassette format.

9) videocassettes - phrases

Under topical headings for works containing common terms, phrases, idioms, and typical conversations, e.g., between doctor and patient, often intended for non-native students of a language, issued in videocassette format: **Medicine - videocassettes - phrases [language]**.

GEOGRAPHIC SUBHEADINGS

- 1) Gaul
- 2) Malta

LANGUAGE SUBHEADINGS

- 1) Macedonian
- 2) Slovak
- 3) Slovenian
- 4) Uzbek

NEW SERIALS ANNOUNCEMENT - FEBRUARY 1980
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.

AFP FAMILY PRACTICE ANNUAL
1979--
AMERICAN FAMILY PHYSICIAN
KANSAS CITY MO UNITED STATES
AMERICAN ACADEMY OF FAMILY PHYSICIANS, 1740
WEST 92ND STREET, KANSAS CITY, MO 64114
IN PROCESS
A16670000

AMERICAN JOURNAL OF INFECTION
MAJORS SCIENTIFIC BOOKS
CONTINUES APIC JOURNAL.
DALLAS UNITED STATES
ON ORDER
A24304000

BIBLIOTECA BASICA DEL EDUCADOR PROFESIONAL
DE SALUD PUBLICA; ESTUDIOS
INTERDISCIPLINARIOS
1,1978--
FACULTAD DE MEDICINA, UNIVERSIDAD CENTRAL
DE VENEZUELA VENEZUELA
CARACAS
IN PROCESS
B11590000

BIULLETEN VSESOIUZNOGO KARDIOLOGICHESKOGO
NAUCHNOGO TSENTRA AMN SSSR
N1,1978--
IZDATELSTVO MEDITSINA USSR
MOSKVA
IN PROCESS
B20010000

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1,1978--
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IN PROCESS
B27730000

CLINICAL CONFERENCE ON CONGENITAL HEART
DISEASE
1ST,1979--
GRUNE AND STATTON UNITED STATES
NEW YORK
GRUNE AND STRATTON, 111 FIFTH AVENUE, NEW
YORK, N.Y. 10003
IN PROCESS
C25030000

CURRENT GENETICS
1/2,1980--
SPRINGER VERLAG
NEW YORK UNITED STATES
ON ORDER
C55690000

DEVELOPMENTS IN GENETICS
1,1979--
ELSEVIER NORTH HOLLAND
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D00312000

DIRECTORY OF DIRECTORIES
1ST,1980--
GALE RESEARCH CO
UPDATED PERIODICALLY BY DIRECTORY
INFORMATION SERVICE. INCL CUMULATIVE
SUBJECT AND TITLE INDEXES.
DETROIT UNITED STATES
GALE RESEARCH COMPANY, BOOK TOWER, DETROIT,
MI 48226
ON ORDER
D12570000

EIS: DIGESTS OF ENVIRONMENTAL IMPACT
STATEMENTS
3N7,JUL 1979--
INFORMATION RESOURCES PRESS
CONTINUES EIS: KEY TO ENVIRONMENTAL IMPACT
STATEMENTS.
WASHINGTON UNITED STATES
INFORMATION RESOURCES PRESS, 2100 M STREET,
N.W. SUITE 316, WASHINGTON, D.C. 20037
ZMA 670 E105
E03055000

EPA CHEMICAL ACTIVITIES STATUS REPORT
1ST, APR 1979--
UNITED STATES ENVIRONMENTAL PROTECTION
AGENCY, OFFICE OF TOXIC SUBSTANCES
WASHINGTON UNITED STATES
UNITED STATES ENVIRONMENTAL PROTECTION
AGENCY, OFFICE OF TOXIC SUBSTANCES,
WASHINGTON, D.C. 20460
IN PROCESS
E10990000

NLN TECHNICAL BULLETIN - MAR 80

FAMILY RELATIONS
29,1980--
NATIONAL COUNCIL ON FAMILY RELATIONS
CONTINUES FAMILY COORDINATOR
MINNEAPOLIS UNITED STATES
IN PROCESS
F01150000

GESTALT THEORY
1N1, OCT 1979--
STEINKOPFF VERLAG
DARMSTADT GERMANY, WEST
IN PROCESS
606590000

INTERNATIONAL SYMPOSIUM ON HORMONAL
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1976--
ELSEVIER
PROCEEDINGS OF FIRST INTERNATIONAL
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DIGESTIVE TRACT PHYSIOLOGY, HELD IN ABBAYE
DE ROYAUMONT (FRANCE), 22-24 SEPTEMBER
1976, PUBLISHED IN INSERM SYMPOSIUM, NO. 3
(N3 I328E NO. 3 1976)
AMSTERDAM NETHERLANDS
SOLE DISTRIBUTORS FOR THE USA AND CANADA:
ELSEVIER NORTH HOLLAND INC., 52 VANDERBILT
AVENUE, NEW YORK, NY 10017.
IN PROCESS
I32970000

JERNAL PERUBATAN - UKM
1N1, JUL 1979--
NATIONAL UNIVERSITY OF MALAYSIA
KUALA LUMPUR MALAYSIA
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J07310000

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2,1980--
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ON ORDER
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MENTAL HEALTH YEARBOOK/DIRECTORY
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VAN NOSTRAND REINHOLD COMPANY
NEW YORK UNITED STATES
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NOSTRAND REINHOLD, 135 WEST 50TH STREET,
NEW YORK, NY 11020
IN PROCESS
M30930000

NUTRITION AND HEALTH
1,1979--
INSTITUTE OF HUMAN NUTRITION
NEW YORK UNITED STATES
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N35770000
\$9.00

OFFIZIENPHARMAZIE
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005035000

IN PSYCHOTHERAPIE PSYCHOSOMATIK MEDIZINISCHE
PSYCHOLOGIE
30,1980--
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CONTINUES PSYCHOTHERAPIE MEDIZINISCHE
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NEW YORK, N.Y. 10010
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REVISTA DE LA FACULTAD DE CIENCIAS MEDICAS
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1N1,1978--
REPUBLICA ARGENTINA. REVISTA FACULTAD DE
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CALLED ALSO: SCIENCE 80- ,NOV./DEC. 1979-
WASHINGTON UNITED STATES
M1 SC653B
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\$12.00

SCIENCE BOOKS AND FILMS
15N1, MAY 1979--
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF
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CONTINUES AAAS SCIENCE BOOKS AND FILMS
WASHINGTON UNITED STATES
IN PROCESS
\$11562000

SPECIAL PUBLICATION - SOCIETY FOR MEDICAL
ANTHROPOLOGY
N1,1979--
SOCIETY FOR MEDICAL ANTHROPOLOGY
WASHINGTON UNITED STATES
SOCIETY FOR MEDICAL ANTHROPOLOGY, 1703 NEW
HAMPSHIRE AVENUE, N.W., WASHINGTON, D.C.
20009
IN PROCESS
\$34735500

STATISTICAL INFORMATION RELEVANT TO THE
HEALTH SERVICES
1978--
DUBLIN. STATIONERY OFFICE
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GOVERNMENT PUBLICATIONS SALE OFFICE, G.P.O.
ARCADE, DUBLIN 1, IRELAND
ON ORDER
S38770000

UNDOC: CURRENT INDEX
1,1979--
UNITED NATIONS, DAG HAMMARSKJOLD LIBRARY
SUPERSEDES UNDEX; UNITED NATIONS DOCUMENTS
INDEX: SERIES A, B, AND C.
NEW YORK UNITED STATES
IN PROCESS
U02070000

STRESS
1,1980--
HANS SELYE FOUNDATION
MONTREAL CANADA
HANS SELYE FOUNDATION, 659 MILTON STREET,
MONTREAL, CANADA H2X1W6.
ON ORDER
S43030000

ZOOPHYSIOLOGY
11,1979--
SPRINGER-VERLAG
CONTINUES ZOOPHYSIOLOGY AND ECOLOGY.
BERLIN GERMANY, WEST
IN PROCESS
Z09270000

TROPICAL DISEASES RESEARCH SERIES
N1,1979--
SCHWABE
PUBLISHED ON BEHALF OF THE UNDP/WORLD
BANK/WHO SPECIAL PROGRAMME FOR RESEARCH AND
TRAINING IN TROPICAL DISEASES. CONSISTS OF
PROCEEDINGS OF MEETINGS HELD IN VARIOUS
PLACES.
BASEL SWITZERLAND
W3 TR856
T21110000

LIST OF MONOGRAPHS INDEXED

APRIL 1980

I

International Titina Conference, 1978. Biomedical
engineering and data processing in pneumology / volume
editor, H. Mathys, assistant volume editors, P. A.
Chevalier ... [et al.]. -- Basel ; New York : Karger, c1979.
ix, 322 p. : ill. -- (Progress in respiration research ; v.
11)
1. Automatic Data Processing - congresses 2.
Biomedical Engineering - congresses 3. Respiratory
Tract Diseases - diagnosis - congresses I. Chevalier,
P. A., ed. II. Mathys, Helarich, ed. III. Title
IV. Series
ISBN 3-8055-3012-9
OCLNM: W3 PR948 v.11 1978
OCLNM: [WF 141 161b 1978]
IM Cl. No. 7905149 (rev. CIP.)



THE NLM TECHNICAL BULLETIN

APRIL 1980

NO. 132

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ENCLOSURE:

REPLACEMENT PAGE FOR ONLINE SERVICES REFERENCE MANUAL

DATA BASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	8,641	THROUGH 1980	18 APR 80	
*BIOETHICS	9,597	JAN 73-OCT 79	19 APR 80	8004(EM)
*CANCERLIT	202,653	JAN 63-MAR 80	17 MAR 80	8003(EM)
*CANCERPROJ	16,984	1976-1980	06 APR 80	8004(EM)
*CATLINE	197,600	1965-1980	18 APR 80	
CHEMLINE	439,817		05 JAN 80	
*CLINPROT	1,669		15 OCT 79	7909(EM)
*EPILEPSY	25,635	1945-PRESENT	16 SEP 79	
*HEALTH	142,700	JAN 75-MAY 80	19 APR 80	8005(EM)
*HISTLINE	40,160		24 MAR 80	8003(EM)
MEDLINE	468,899	JAN 78-MAY 80	14 APR 80	8005(EM)
+MED77	253,234	JAN 77-DEC 77	08 DEC 79	
+MED75	642,953	JAN 75-DEC 76	08 DEC 79	
MED72	669,106	JAN 72-DEC 74	08 DEC 79	
MED69	668,258	JAN 69-DEC 71	08 DEC 79	
MED66	501,802	JAN 66-DEC 68	08 DEC 79	
MESH VOC	15,087	1980	08 DEC 79	
*NAME AUTH	109,794		14 APR 80	
RTECS	36,851	1978	07 SEP 79	
SDILINE	18,140	MAY 80	14 APR 80	
*SERLINE	34,359	1979	04 APR 80	
TDB	2,514		22 JAN 80	
TOXLINE	692,394		24 MAR 80	8003(EM)
CBAC	360,958	1974-VOL 31(4,5)		
TOXBIB	135,268	1974-APR 80		
IPA	37,717	1974-VOL 16(23)		
HEEP	80,243	1974-FEB 80		
PESTAB	18,243	1974-JAN 80		
EMIC	27,701	1960-DEC 79		
ETIC	16,497	1950-AUG 79		
RPROJ	14,417	JAN 79-MAY 80		
TOXBACK	379,299		26 FEB 78	
CBAC	167,668	1965-1973		
TOXBIB	127,104	1968-1973		
IPA	19,188	1970-1973		
HEEP	24,680	1971-1973		
HAPAB	12,816	1966-1973		
HAYES	10,043	1940-1966		
TMIC	4,552	1971-1975		
TERA	13,248	1960-1974		

- 1) * = FILES AVAILABLE AT NLM ONLY.
- 2) + = THESE BACKFILES CONTAIN CITATIONS HAVING EITHER A PUBLICATION DATE OR ENTRY DATE FOR THE DATES COVERED.
- 3) MEDLINE BACKFILES AND TOXBACK ARE AVAILABLE ONLY THRU OFFSEARCH AT NLM AND SUNY.

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National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20209
301/496-6193

TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the NLM Online Services Reference Manual which 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 NLM Online Users Meeting is scheduled for Monday, June 16, 1980, from 12:00 Noon until 1:00 p.m. in the Jefferson Ballroom of the Washington-Hilton (headquarters hotel) in Washington, D.C. during the Medical Library Association Annual Meeting.

**OFFSEARCH
PURGES** - To request purging of OFFSEARCHES, MEDLARS Management Staff must be called during the same day that OFFSEARCHES are entered. You cannot request the purging of an OFFSEARCH a day later because OFFSEARCHES are processed during the evening of the day entered. You should not call the computer room; NLM computer room operators will only report the status of the system or take a message to deliver to MMS staff the following morning.

**HP 2621P
TERMINAL** - Users with HEWLETT PACKARD 2621P terminals who want to search the NLM data bases through TELENET and TYMNET and print concurrently at 1200 Baud should contact MMS staff for special procedures.

**MAP NOTES
(Manual 23.4.1,
23.4.24, 11.3.2)** - The NLM is cooperating with the AAMC (Association of American Medical Colleges) to make the contents of its publication, MAP Notes, available to online users. MAP Notes is a quarterly publication containing citations on current management information for academic medical center administrators. These citations appear in the Health Planning & Administration data base beginning with Volume 3, issue 1, 1979.

The value N in the Journal Subset (SB) field means that MAP Notes is a secondary source for the citation (Manual, Part 23.4.24). To limit a search to citations from MAP Notes use N (SB). The value AAMC in the Abstract Author (AA) field means that the abstract was written by AAMC (Manual, Part 23.4.1). If an abstract was previously indexed for MEDLINE or Health Planning & Administration and the citation contains an author abstract, the AAMC abstract will not be substituted.

Each journal title scanned by the AAMC for MAP Notes is in the SERLINE data base with the value MAP in the Abstracting & Indexing Tags (AI) field (Manual, Part 11.3.2). To retrieve

all journals in MAP Notes use MAP (AI). The non-Index Medicus titles will also have H in the Special List Indicator (LI) field.

- PHONES - Appendix A is a list of telecommunications numbers which may be used to access the NLM and SUNY computers. It is published bimonthly and reflects new, changed and deleted telephone numbers.
- BIOETHICS (Manual Part 21) - Enclosed with this issue is a replacement page for the BIOETHICS part of your Online Services Reference Manual. This Appendix A (now including revised parts A, B, and C) should be substituted for your old Appendix A.

MORATORIUM LIFTED: NEW ONLINE SERVICES POLICIES ANNOUNCED
Joseph Leiter, Ph.D., Associate Director for Library Operations, NLM

On March 25, 1980 NLM lifted the moratorium on new users. However, access for new users will be restricted to the computer at SUNY. As NLM resources permit, access to data bases not available at SUNY may be extended to new high priority users at a later date. The toxicology-related data bases (TOXLINE, TOXBACK, CHEMLINE, RTECS, and TDB) have been mounted at SUNY for the convenience of all users, and those users with access to both NLM and SUNY are encouraged to utilize the resources of SUNY more fully. Service, including response time, is effective and efficient.

A priority system has been established for admitting new users to the system. Preference will be given to high priority health institutions and, where possible, Priority II institutions will be admitted. At any time, Priority II users might be restricted from use of the system, particularly when computer capacity is strained. Institutional users are classified as follows:

Priority I

- . Direct Patient Care Facilities
- . Health Professional Educational Institutions
- . Organizations Primarily Engaged in Health Research or Health Protection Activities
- . Federal and State Health Agencies

Priority II

- . Other Educational Institutions with Health or Information Science Programs
- . Other Federal, State and Local Agencies not in Priority I
- . Societies, Foundations, and Other Organizations with Secondary Health Responsibilities

New user application packets may be obtained from either NLM or the appropriate Regional Medical Library. Completed applications should be returned to MEDLARS Management Section, NLM.

AVLINE UPDATE

Alice E. Jacobs, Technical Services Division, NLN

The chart below summarizes the subject content of the AVLINE data base. This analysis is based on the broad categories of the National Library of Medicine Classification, 4th ed., and supplemental Library of Congress schedules used in classifying audiovisuals at NLN. At the time of this study, AVLINE contained 8582 citations. References to Category A items, educational material which is reviewed under the auspices of the Association of American Medical Colleges (AAMC), comprise 79.45% of the file; citations considered Category B, lecture items which are not peer-reviewed, comprise 20.55% of the data base.

<u>SUBJECT</u>	<u>TOTAL IN AVLINE</u>	<u>% OF FILE</u>
PRECLINICAL	777	9.05
CLINICAL	6155	71.72
DENTAL	632	7.36
NURSING	606	7.06
MISCELLANEOUS	412	4.81

MONTHLY HINT: SEARCHING SUBHEADINGS IN CATLINE

User inquiries regarding the use of subheadings in the CATLINE data base indicate that a clarification of searching protocols would be useful. The following examples illustrate the search formats for the four types of subheadings.

TOPICAL SUBHEADINGS -

Topical subheadings can be searched in two ways: a) attached to a MeSH Heading in a category for which the subheading is allowable, e.g.,

```

USER:      neoplasms/dt                OR      USER:      neoplasms/drug therapy
PROG:      SS (1) PSTG (201)          PROG:      SS(2) PSTG (201)
    
```

b) as a free-floating subheading, e.g.,

```

USER:      neoplasms and drug therapy (sh)
PROG:      SS (3) PSTG (203)
    
```

The latter method can result in false drops.

Note that the 2-letter abbreviation can be used as an attached subheading, but the complete word(s) with the qualifier (SH) must be used for the free-floating subheading. A NO POSTINGS or *NONE message will be received if the 2-letter search abbreviation is used as a free-floating subheading, e.g.,

```

USER:      neoplasms and dt (sh)      OR      USER:      dt (sh)
PROG:      NP (DT (SH))                PROG:      NP (DT (SH))
*NONE-
    
```

Remember that CATLINE has unique topical subheadings used to describe age groups. There are 2-letter search abbreviations for these subheadings:

in infancy & childhood	IC
in adolescence	AO
in adulthood	AU
in middle age	MY
in old age	OA
in pregnancy	PR

FORM, GEOGRAPHIC, AND LANGUAGE SUBHEADINGS -

These three types of subheadings must be ANDED as free-floating, qualified subheadings since the computer stores them as if they were main headings, e.g.,

eye diseases and atlases (sh)

neoplasms and brazil (sh)

psychiatry and dictionaries (sh) and german (sh)

No search abbreviations exist for them and they cannot be attached with a slash to a main heading for searching.

A free-floating subheading (regardless of type) ANDED with a main heading may retrieve false drops. A STRINGSEARCH of the MH field will limit the search to the relevant MH/SH combination.

Lists of these subheadings can be found either in the introductory pages of Annotated MeSH or the appendices to the CATLINE chapter of the Online Services Reference Manual.

NEW SERIALS ANNOUNCEMENT - MARCH 1980
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.

AFP FAMILY PRACTICE ANNUAL
1979--
AMERICAN FAMILY PHYSICIAN
ISSUED BY THE AMERICAN ACADEMY OF FAMILY
PHYSICIANS.
KANSAS CITY MO UNITED STATES
AMERICAN ACADEMY OF FAMILY PHYSICIANS, 1740
WEST 92ND STREET, KANSAS CITY, MO 64114
MI A1153
A16670000

APPLIED PSYCHOLINGUISTICS
1980--
CAMBRIDGE UNIVERSITY PRESS
NEW YORK UNITED STATES
ON ORDER
A57745000

ARBEITEN ZUR GESCHICHTE DER MEDIZIN IN
GIESSEN
1,1979--
WILHELM SCHMITZ
GIESSEN GERMANY, WEST
IN PROCESS
A58490000

BIJULETEN VSESOUJZNOGO KARDIOLOGICHESKOGO
NAUCHNOGO TSENTRA AMN SSSR
N1,1978--
IZDATELSTVO MEDITSINA
MOSKVA USSR
IN PROCESS
B20810000

ALDIOVISUAL MATERIALS
JAN/MAR 1979--
LIBRARY OF CONGRESS
CONTINUES LIBRARY OF CONGRESS CATALOGS -
FILMS AND OTHER MATERIALS FOR PROJECTION.
WASHINGTON UNITED STATES
IN PROCESS
A74713000

BOLETIN - INSTITUTO PATOLOGIA REGIONAL
1,1978--
UNIVERSIDAD NACIONAL DEL NORDESTE
CORRIENTES ARGENTINA
IN PROCESS
B27730000

BAYLOR NURSING EDUCATOR
1,1979--
BAYLOR UNIVERSITY. SCHOOL OF NURSING
DALLAS UNITED STATES
3616 WORTH ST, DALLAS, TX 75246
ON ORDER
B01730000

CANADA PHYSIOLOGY. PHYSIOLOGIE CANADA
10,1979--
CANADIAN PHYSIOLOGICAL SOCIETY
CONTINUES PHYSIOLOGY CANADA. CANADA
PHYSIOLOGIE. CANADA
IN PROCESS
C03270000

BEHAVIORAL MEDICINE ABSTRACTS
WINTER, 1980--
WILLIAMS AND WILKINS
BALTIMORE UNITED STATES
ON ORDER
B02302000
\$40.00

CHAC REVIEW
JAN 1980--
CATHOLIC HEALTH ASSOCIATION
CONTINUES CATHOLIC HOSPITAL.
OTTAWA, ONTARIO CANADA
ON ORDER
C13030000

BIBLIOTECA BASICA DEL EDUCADOR PROFESIONAL
DE SALUD PUBLICA; ESTUDIOS
INTERDISCIPLINARIOS
1,1978--
FACULTAD DE MEDICINA, UNIVERSIDAD CENTRAL
DE VENEZUELA
CARACAS VENEZUELA
IN PROCESS
B11590000

CLINICAL CONFERENCE ON CONGENITAL HEART
DISEASE
1ST,1979--
GRUNE AND STATTON
NEW YORK UNITED STATES
GRUNE AND STRATTON, 111 FIFTH AVENUE, NEW
YORK, N.Y. 10003
IN PROCESS
C25030000

BIOCHEMISTRY ABSTRACTS
QW1,1980--
INFORMATION RETRIEVAL
CONTINUES AMINO-ACID, PEPTIDE, AND PROTEIN
ABSTRACTS.
LONDON ENGLAND
IN PROCESS
B15210000

COMPUTER-READABLE DATA BASES
OCT 1979--
AMERICAN SOCIETY FOR INFORMATION SCIENCE
WHITE PLAINS, N. Y., AVAILABLE FROM
KNOWLEDGE INDUSTRY PUBLICATIONS
CONTINUES COMPUTER-READABLE BIBLIOGRAPHIC
DATA BASES.
WASHINGTON UNITED STATES
KNOWLEDGE INDUSTRY PUBLICATIONS, INC. 2
CORPORATE PARK DRIVE WHITE PLAINS, N.Y.
10604
Z 699.22 C730
C35985000

BIOLOGICAL OCEANOGRAPHY JOURNAL
1,SPRING 1980--
DRANC, RUSSAK AND COMPANY
NEW YORK UNITED STATES
ON ORDER
B16910000
\$60.00

CURRENT GENETICS
1/2,1980--
SPRINGER VERLAG
NEW YORK UNITED STATES
ON ORDER
C55690000

BIOTECHNOLOGY LETTERS
1,1980?--
SCIENCE AND TECHNOLOGY LETTERS
SURREY ENGLAND
ON ORDER
B19865000

NLN TECHNICAL BULLETIN - APR 80

DEVELOPMENTS IN CARDIOVASCULAR MEDICINE

1,1979--
MARTINUS NIJHOFF
THE HAGUE NETHERLANDS
W1 DE997VME
D08252000

DEVELOPMENTS IN GENETICS

1,1979--
ELSEVIER/NORTH-HOLLAND BIOMEDICAL PRESS
AMSTERDAM NETHERLANDS
W1 DE997VCY
D08312000

DEVELOPMENTS IN NUTRITION AND METABOLISM

1, 1979--
ELSEVIER/NORTH-HOLLAND BIOMEDICAL PRESS
AMSTERDAM NETHERLANDS
W1 DE998L
D08385000

DIAGNOSTIC GYNECOLOGY AND OBSTETRICS

2,1980--
MASSON
CONTINUES AMERICAN JOURNAL OF DIAGNOSTIC
GYNECOLOGY AND OBSTETRICS.
NEW YORK UNITED STATES
MASSON PUBLISHING USA, INC. 14 E. 60TH ST.
NEW YORK, N.Y. 10022
ON ORDER
D09566000
\$45.00

DIRECTORY OF DIRECTORIES

1ST,1980--
GALE RESEARCH CO
UPDATED PERIODICALLY BY DIRECTORY
INFORMATION SERVICE. INCL CUMULATIVE
SUBJECT AND TITLE INDEXES.
DETROIT UNITED STATES
GALE RESEARCH COMPANY, BOOK TOWER, DETROIT,
MI 48226
ON ORDER
D12570000

EIS: DIGESTS OF ENVIRONMENTAL IMPACT

STATEMENTS
3N7,JUL 1979--
INFORMATION RESOURCES PRESS
CONTINUES EIS: KEY TO ENVIRONMENTAL IMPACT
STATEMENTS.
WASHINGTON UNITED STATES
INFORMATION RESOURCES PRESS, 2100 M STREET,
N.W. SUITE 316, WASHINGTON, D.C. 20037
ZWA 670 E105
E03855000

EPA CHEMICAL ACTIVITIES STATUS REPORT

1ST, APR 1979--
UNITED STATES ENVIRONMENTAL PROTECTION
AGENCY, OFFICE OF TOXIC SUBSTANCES
WASHINGTON UNITED STATES
UNITED STATES ENVIRONMENTAL PROTECTION
AGENCY, OFFICE OF TOXIC SUBSTANCES,
WASHINGTON, D.C. 20460
IN PROCESS
E10990000

EVALUATION REVIEW

4,FEB 1980--
SAGE PUBLICATIONS
CONTINUES EVALUATION QUARTERLY.
BEVERLY HILLS CA UNITED STATES
IN PROCESS
E17430000

FAMILY RELATIONS

29,1980--
NATIONAL COUNCIL ON FAMILY RELATIONS
CONTINUES THE FAMILY COORDINATOR.
MINNEAPOLIS UNITED STATES
NATIONAL COUNCIL ON FAMILY RELATIONS, 1219
UNIVERSITY AVE., S.E., MINNEAPOLIS,
MINNESOTA 55414
W1 FA454H
F01150000

GESTALT THEORY

1N1, OCT 1979--
STEINKOPFF VERLAG
DARMSTADT GERMANY, WEST
IN PROCESS
G06590000

GEZONDHEID EN SAMENLEVING

1,1980--
VAN LOGHUM SLATERUS
DEVENTER NETHERLANDS
GEERT GROOTESTRAAT 4, DEVENTER, NETHERLANDS
ON ORDER
G07570000

HEALTH LAW VIGIL

1,JULY 21,1978--
AMERICAN HOSPITAL ASSOCIATION
CHICAGO UNITED STATES
840 LAKE SHORE DRIVE, CHICAGO, IL 60611
IN PROCESS
H06175000

INFECTION CONTROL

1,JAN 1980--
CHARLES B SLACK
THOROFARE NJ UNITED STATES
ON ORDER
I12910000
\$18.00

INSTRUCTIONAL INNOVATOR

25,JAN 1980--
NATIONAL EDUCATION OF THE UNITED STATES
CONTINUES AUDIOVISUAL INSTRUCTION.
UNITED STATES

ON ORDER
I18190000

INTERNATIONAL JOURNAL OF FAMILY PSYCHIATRY

1,1980--
INTERNATIONAL UNIVERSITY PRESS
NEW YORK UNITED STATES
ON ORDER
I26890000

MLM TECHNICAL BULLETIN - APR 80

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- OFFIZINPHARMAZIE**
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 15N1, MAY 1979--
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K

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S

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I. Radiation Effects - congresses 2. Radiation injuries - congresses 3. Radiation, ionizing - adverse effects - congresses I. International Atomic Energy Agency. II. Title III. Series
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MAY 1980

No. 133

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*AVLINE	8,794	THROUGH 1980	30 MAY 80	
*BIOETHICS	9,597	JAN 73-OCT 79	19 APR 80	8004(EM)
*CANCERLIT	206,748	JAN 63-APR 80	22 APR 80	8004(EM)
*CANCERPROJ	16,984	1976-1980	06 APR 80	8004(EM)
*CATLINE	198,983	THROUGH 1980	30 MAY 80	
CHEMLINE	439,319		28 APR 80	
*CLINPROT	1,669		15 OCT 79	7909(EM)
*EPILEPSY	25,635	1945-PRESENT	16 SEP 79	
*HEALTH	145,348	JAN 75-JUN 80	12 MAY 80	8006(EM)
*HISTLINE	40,749		25 APR 80	8004(EM)
MEDLINE	491,492	JAN 78-JUN 80	05 MAY 80	8006(EM)
+MED77	253,234	JAN 77-DEC 77	08 DEC 79	
+MED75	642,953	JAN 75-DEC 76	08 DEC 79	
MED72	669,106	JAN 72-DEC 74	08 DEC 79	
MED69	668,258	JAN 69-DEC 71	08 DEC 79	
MED66	501,802	JAN 66-DEC 68	08 DEC 79	
MESH VOC	34,461	1980	07 APR 80	
*NAME AUTH	110,250		12 MAY 80	
RTECS	36,851	1978	07 SEP 79	
SDILINE	22,931	JUN 80	05 MAY 80	
*SERLINE	34,359	1979	04 APR 80	
TDB	2,514		22 JAN 80	
TOXLINE	713,634		27 MAY 80	8005(EM)
CBAC	372,310	1974-VOL 31(8,9)		
TOXBIB	138,912	1974-JUN 80		
IPA	39,279	1974-VOL 17(3-6)		
HEEP	80,243	1974-FEB 80		
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RPROJ	16,222	JAN 79-JUL 80		
TOXBACK	379,299		26 FEB 78	
CBAC	167,668	1965-1973		
TOXBIB	127,104	1968-1973		
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HEEP	24,680	1971-1973		
HAPAB	12,816	1966-1973		
HAYES	10,043	1940-1966		
TMIC	4,552	1971-1975		
TERA	13,248	1960-1974		

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- 3) MEDLINE BACKFILES AND TOXBACK ARE AVAILABLE ONLY THRU OFFSEARCH AT NLM AND SUNY.

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TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY FOR SPECIAL NOTICES AND MESSAGES

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

USING MESH
TERMS IN
CANCERLIT

- Reminder: When searching with a MeSH term in CANCERLIT, you must qualify the term:

CARCINOMA (MH)
PROG:
SS (1) PSTG (280)

An unqualified term defaults to the text word:

CARCINOMA
PROG:
SS (2) PSTG (34062)

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.

EXP BRAIN correct form
PROG:
SS (3) PSTG (59)

EXP BRAIN (MH) defaults to brain
PROG: as an MH
SS (4) PSTG (30)

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- The "TIME command used at NLM to obtain the connect time used is not available at SUNY due to a difference in the operating systems of the two computers. However, you may get the connect time online through TYMNET by entering one "at" (@) sign; if using TELENET, enter two "at" signs (@@) to receive the time.

LIST OF
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ONLINE USERS

- One free copy of the new NLM publication, LIST OF SERIALS AND MONOGRAPHS INDEXED FOR ONLINE USERS, was sent to each ID code with the March 1980 Technical Bulletin. Additional copies are available from the National Technical Information Service; the order number is PB80-131204. Hardcopy price is \$6.50.

MUTATION DATA IN RTECS

Darlene K. Futagaki, Ph.D., Specialized Information Services, NLM

The RTECS file has been regenerated with the addition of material from the October 1979 and January 1980 quarterly updates. These updates bring to the file new, detailed mutation data. These data have been entered in the TOXICITY DATA INDEX STRINGS and are therefore searchable using the search mnemonic (IX) and printable using the command PRT TDKW or PRT TOXDATA.

The new mutation TOXICITY DATA INDEX STRINGS report the results obtained using test systems to evaluate the mutagenic potential of chemical substances. The 17 specific test systems currently carried in RTECS are listed by search term, full name, and definition at the end of this article (Table 1). Because of the nature of these test systems, the mutation TOXICITY DATA INDEX STRINGS are reported in any of four discrete formats. Please note that all INDEX STRINGS that previously carried the notation "TOXIC EFFECTS; MUTAGENIC" have been reformatted and are now carried in one of the formats listed below. Therefore, you may no longer search using (IX) MUTAGENIC, since no "TOXIC EFFECTS" notation will be carried in these INDEX STRINGS.

MUTATION INDEX STRING FORMATS

- I. TEST - ORGANISM - DOSAGE
e.g. TDKW-MUTATION; METABOLIC ACTIVITY; S. TYPHIMURIUM;
BACTERIA; 100 ng/plate
- II. TEST - ORGANISM - ROUTE - DOSAGE
e.g. TDKW-MUTATION; CYTOGENETICS; RAT; RODENTS;
INTRAPERITONEAL; 25mg/kg
- III. a. TEST - ORGANISM: CELL TYPE - DOSAGE
e.g. TDKW-MUTATION; MICRONUCLEUS; HUMAN; HUMANS;
FIBROBLAST; SOMATIC CELLS; 82 μ mol/L
- b. TEST - ORGANISM/SUBORGANISM - DOSAGE
e.g. TDKW-MUTATION; HOST MEDIATED; MOUSE; RODENTS;
S. TYPHIMURIUM; BACTERIA; 500 mg/kg
- IV. a. TEST - ORGANISM - ROUTE: CELL TYPE - DOSAGE
e.g. TDKW-MUTATION; HOST MEDIATED; MOUSE; RODENTS; ORAL;
FIBROBLAST; SOMATIC CELLS; 100 mg/kg
- b. TEST - ORGANISM - ROUTE/SUBORGANISM - DOSAGE
e.g. TDKW-MUTATION; HOST MEDIATED; RAT; RODENTS; ORAL;
S. TYPHIMURIUM; BACTERIA; 400 mg/kg

As in all RTECS TOXICITY DATA INDEX STRINGS, each element between semicolons (except, of course, the dosage) is directly searchable and may be logically combined with other elements. Note that several elements in these mutation INDEX STRINGS are recorded both specifically and generically. These elements are: TEST, ORGANISM, SUBORGANISM and CELL TYPE. Therefore, in addition to the route, species and generic species search terms listed in Table II of the RTECS manual, these new mutation INDEX STRINGS introduce new specific and

generic search terms to describe these elements. These are included at the end of this article (Tables I and II) and will be added to the revised RTECS search manual.

One may search these strings: (a) rather broadly using generic elements, for example, for all mutation studies done in rodents

(IX) MUTATION AND RODENTS

(Note again, one can no longer enter: (IX) MUTAGENIC AND RODENTS);

(b) for specific elements, for example, for host mediated assays run on rat fibroblasts

(IX) HOST MEDIATED AND RAT AND FIBROBLAST

(c) combining generic and specific elements, for example, for all micronucleus tests utilizing human somatic cells

(IX) MICRONUCLEUS AND HUMANS AND SOMATIC CELLS

Questions on searching the updated RTECS file may be directed to the Specialized Information Services, 301/496-1131. As in the past, any question on the content of the file should be directed to RTECS Editorial Office at NIOSH-Cincinnati, 513/684-8317.

TABLE I

MUTAGENICITY TEST SYSTEMS IN RTECS

SPECIFIC SEARCH TERM - (FULL TEST NAME) - DEFINITION

GENERIC SEARCH TERM: MUTATION

CYTOGENETICS - (CYTOGENETIC ANALYSIS)

System utilizes cultured cells or cell lines to assay for chromosomal aberrations following the administration of chemical substances.

DOMINANT LETHAL - (DOMINANT LETHAL TEST)

A dominant lethal is a genetic change in a gamete that kills the zygote produced by that gamete. In mammals, the dominant lethal test measures the reduction of litter size; in insects, it measures the number of unhatched eggs.

DNA DAMAGE - (DNA DAMAGE)

System detects the damage to DNA strands including strand breaks, crosslinks, and other abnormalities.

DNA REPAIR - (DNA REPAIR)

System utilizes methods of monitoring DNA repair as a function of induced genetic damage.

DNA SYNTHESIS - (UNSCHEDULED DNA SYNTHESIS)

System detects the synthesis of DNA during usually non-synthetic phases.

HOST MEDIATED - (HOST MEDIATED ASSAY)

System uses two separate species, generally mammalian and bacterial, to detect heritable genetic alteration caused by metabolic conversion of chemical substances administered to host mammalian species in the bacterial indication species.

METABOLIC ACTIVATION - (MICROSOMAL MUTAGENICITY ASSAY)

System utilizes an in vitro technique which allows enzymatic activation of promutagens in the presence of an indicator organism in which induced mutation frequencies are determined.

MICROORGANISMS - (MUTATIONS IN MICROORGANISMS)

System utilizes the detection of heritable genetic alterations in microorganisms which have been exposed directly to the chemical substances.

MICRONUCLEUS - (MICRONUCLEUS TEST)

System utilizes the fact that chromosomes or chromosome fragments may not be incorporated into one or the other of the daughter nuclei during cell division.

MITOTIC RECOMBINATION - (GENE CONVERSION AND MITOTIC RECOMBINATION)

System utilizes unequal recovery of genetic markers in the region of the exchange during genetic recombination.

MAMMALIAN CELL - (MUTATION IN MAMMALIAN SOMATIC CELLS)

System utilizes the induction and isolation of mutants in cultured mammalian cells by identification of the gene change.

ONCOGENIC TRANSFORMATION - (ONCOGENIC TRANSFORMATION)

System utilizes morphological criteria to detect cytological differences between normal and transformed tumorigenic cells.

SISTER CHROMATID EXCHANGE - (SISTER CHROMATIC EXCHANGE)

System detects the interchange of DNA in cytological preparations of metaphase chromosomes between replication products at apparently homologous loci.

NONDISJUNCTION - (SEX CHROMOSOME LOSS AND NONDISJUNCTION)

System measures the nonseparation of homologous chromosomes at meiosis and mitosis.

SPECIFIC LOCUS - (SPECIFIC LOCUS TEST)

System utilizes a method for detecting and measuring rates of mutation at any or all of several recessive loci.

SPERM MORPHOLOGY - (SPERM MORPHOLOGY)

System measures the departure from normal in the appearance of the sperm.

HERITABLE TRANSLOCATION - (HERITABLE TRANSLOCATION TEST)

Test measures the transmissibility of induced translocations to subsequent generations. In mammals, the test uses sterility and reduced fertility in the progeny of the treated parent. In addition, cytological analysis of the F1 progeny or subsequent progeny of the treated parent is carried out to prove the existence of the induced translocation. In *Drosophila*, heritable translocations are detected genetically using easily distinguishable phenotypic markers, and these translocations can be verified with cytogenetic techniques.

TABLE II
TEST SPECIES AND CELL TYPES ADDITIONS TO RTECS

SPECIFIC SEARCH TERM	GENERIC SEARCH TERM
A. NIGRA	MOLDS
B. SUBTILIS	BACTERIA
BONE MARROW	SOMATIC CELLS
D. MELANOGASTER	INSECTS
D. PSEUDO-OBSCURA	INSECTS
EMBRYO	SOMATIC CELLS
E. COLI	BACTERIA
FIBROBLAST	SOMATIC CELLS
HELA CELL	SOMATIC CELLS
K. PNEUMONIAE	BACTERIA
LEUCOCYTE	SOMATIC CELLS
LUNG	SOMATIC CELLS
LYMPHOCYTE	SOMATIC CELLS
MAMMARY GLAND	SOMATIC CELLS
N. CRASSA	MOLDS
OVARY	SOMATIC CELLS
S. TYPHIMURIUM	BACTERIA
S. CEREVISIAE	YEASTS
S. MARCESCENS	BACTERIA
S. POMBE	YEASTS

MONTHLY HINT: LIMITING BY YEAR IN MEDLINE

The two-digit searchable Year (YR) field in MEDLINE is generated from the third and fourth digits of the Date of Publication (DP) field. However, monographic citations do NOT have a DP field; therefore, no YR field exists for these records and they are eliminated from retrieval limited by year.

To retrieve these monographic citations, the original subject retrieval must be ANDed with the check tag MONOGRAPH and the appropriate field stringsearched for the four-digit year. These fields are: Title Abbreviation (TA) in MEDLINE or Source (SO) in TOXLINE.

An example follows:

```

SS 1 /C?
USER:
#hypertension/pp
PROG:
SS (1) PSTG (649)

SS 2 /C?
USER:
1 and 79 (yr)
PROG:
TIME OVFLW: CONT? (Y/N)

USER:
y
PROG:
TIME OVFLW: CONT? (Y/N)

USER:
y
PROG:
SS (2) PSTG (271)

SS 3 /C?
USER:
1 and monograph
PROG:
SS (3) PSTG (11)

SS 4 /C?
USER:
1s (1a) :1979:
PROG:
SS (4) PSTG (9)

SS 5 /C?
USER:
2 or 4
PROG:
SS (5) PSTG (280)
    
```

Remember that some monographs (frequently congresses) have two four-digit years in the source information: one for the date the conference was held and one for year of publication.

The TOXLINE/TOXBACK data bases should also be searched using this method since the TOXBIB subfile is generated from MEDLINE. The HEALTH data base is not affected because, at present, monographs are not included in that file.

NEW SERIALS ANNOUNCEMENT - APRIL 1980
 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.

AKTUELLE NEUROLOGIE UND PSYCHIATRIE
 3,1978--
 SPRINGER-VERLAG
 SUPERSEDES ALMANACH FUR NEUROLOGIE UND
 PSYCHIATRIE.
 BERLIN GERMANY, WEST
 W1 AK995G0
 A19340000

AMERICAN JOURNAL OF FORENSIC MEDICINE AND
 PATHOLOGY
 1,MAR 1930--
 MASSON
 NEW YORK UNITED STATES
 ON ORDER
 A24188500

AMERICAN PUBLIC HEALTH ASSOCIATION
 INTERNATIONAL HEALTH PROGRAMS MONOGRAPH
 SERIES
 1,1979--
 AMERICAN PUBLIC HEALTH ASSOCIATION
 INTERNATIONAL HEALTH PROGRAMS
 WASHINGTON UNITED STATES
 AMERICAN PUBLIC HEALTH ASSOCIATION,
 INTERNATIONAL HEALTH PROGRAMS, 1015
 EIGHTEENTH STREET, NW, WASHINGTON, DC 20036
 IN PROCESS
 A25715000

ANGEWANDTE MEDIZINISCHE INFORMATIK
 1,1978--
 HAAG UND HERCHEN
 FRANKFURT ON THE GERMANY, WEST
 MAIN
 HAAG UND HERCHEN VERLAG GMBH,
 FIEHARDSTRASSE 30, 6000 FRANKFURT/MAIN 1,
 GERMANY
 IN PROCESS
 A30545000

ASIAN JOURNAL OF PHARMACEUTICAL SCIENCES
 1,JUN 1979--
 MEDICAL BOOK CENTER
 SINGAPORE SINGAPORE
 IN PROCESS
 A69490000

ASSERTIVE NURSE
 1,JAN 1978--
 LA JOLLA CA UNITED STATES
 5444 BEAUMONT AVENUE, LA JOLLA, CA 92037
 ON ORDER
 A70010000
 \$5.00

BASIC AND CLINICAL NUTRITION
 1,1980--
 DEKKER
 CATALOGING IN PUBLICATION.
 NEW YORK UNITED STATES
 ON ORDER - CIP
 B01090000

BEITRAEGE ZUR UROLOGIE
 1,1979--
 S. KARGER
 BASEL SWITZERLAND
 IN PROCESS
 B03930000

BREAST CANCER: EPIDEMIOLOGY, ENDOCRINOLOGY,
 BIOCHEMISTRY AND PATHOBIOLOGY
 1980?--
 URBAN AND SCHWARZENBERG
 BALTIMORE UNITED STATES
 URBAN AND SCHWARZENBERG, SEVEN E. READWOOD
 ST, BALTIMORE, MD 21202, TEL 301-539-2550
 ON ORDER
 B33375000
 \$42.00

BRISTOL-MEYERS CANCER SYMPOSIA
 1,1979--
 ACADEMIC PRESS
 NEW YORK UNITED STATES
 IN PROCESS
 B33750000

BRITISH JOURNAL OF DISORDERS OF
 COMMUNICATION. MONOGRAPH
 1979?--
 COLLEGE OF SPEECH THERAPISTS
 LONDON ENGLAND
 IN PROCESS
 B34625000

CARCINOGENESIS

1,1980--
INFORMATION RETRIEVAL
NEW YORK UNITED STATES
1911 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA
22202
ON ORDER
C07090000
\$175.00

JOHN M. MARSHALL SYMPOSIUM IN CELL BIOLOGY
1ST,1979--
ACADEMIC PRESS
NEW YORK UNITED STATES
IN PROCESS
J08410000

CURRENT CLINICAL TOPICS IN INFECTIOUS

DISEASES
1,1980--
MCGRAW-HILL BOOK COMPANY
NEW YORK UNITED STATES
IN PROCESS
C55130000

JOURNAL OF HOLISTIC MEDICINE
1980--
AMERICAN HOLISTIC MEDICAL ASSOCIATION
UNITED STATES
HUMAN SCIENCES PRESS, INC., 72 FIFTH AVE.,
NEW YORK, NY 10011, TEL 212-243-6000.
ON ORDER
J23130000
\$24.00

EMERGENCY MEDICAL ABSTRACTS

1, JAN 1980--
CHARLES B. SLACK
THOROFARE NJ UNITED STATES
ON ORDER
E05950000

KINESIS REPORT
1,1978--
HUMAN SCIENCES PRESS
NEW YORK UNITED STATES
ON ORDER
K05530000

FOCUS ON WOMEN

1,1980--
GEORGE F STICKLEY CO
PHILADELPHIA UNITED STATES
210 WEST WASHINGTON SQUARE, PHILADELPHIA,
PA 19106
ON ORDER
F07730000
\$27.00

LIGAND REVIEW
1,FALL 1979--
TECHNICAL AND PROFESSIONAL SERVICES
SUPERSEDES LIGAND QUARTERLY.
SEGUIN TX UNITED STATES
1015 NO. AUSTIN ST., SEGUIN, TEXAS 78155
IN PROCESS
L09035000

GRANDI TEMI DELLA MEDICINA

1978--
FRATELLI FABBRI
MILANO ITALY
VIA MECENATE 91, MILANO, ITALIA
ON ORDER
G11145000

IM MEDICINE AND SCIENCE IN SPORTS AND EXERC.
12,1980--
AMERICAN COLLEGE OF SPORTS MEDICINE
CONTINUES MEDICINE AND SCIENCE IN SPORTS.
MADISON WI UNITED STATES
IN PROCESS
M22290000

GROUP PRACTICE JOURNAL

29, 1980--
AMERICAN GROUP PRACTICE ASSOCIATION
CONTINUES GROUP PRACTICE.
ALEXANDRIA VA UNITED STATES
ADDRESS: AM. GROUP PRACTICE ASSOC., 20 S.
QUAKER LN., PO BOX 949, ALEXANDRIA, VA.
22313.
IN PROCESS
G12045000

NEW YORK STATE OPTOMETRY
5N3,SUMMER 1979--
NEW YORK STATE OPTOMETRIC ASSOCIATION
CONTINUES NEW YORK STATE JOURNAL OF
OPTOMETRY.
ALBANY NY UNITED STATES
IN PROCESS
N16132000

HANDBOOK OF BRITISH ANAESTHESIA

1979/80--
MACMILLAN JOURNALS
ACCOMPANIES BRITISH JOURNAL OF ANAESTHESIA.
LONDON ENGLAND
IN PROCESS
H01115000

OCCUPATIONAL HYGIENE MONOGRAPH
N1,MAY 1978--
SCIENCE REVIEWS
LONDON ENGLAND
SCIENCE REVIEWS, 3/4 ST ANDREWS HILL,
LONDON EC1V 5BY, ENGLAND
ON ORDER
O01730000

INTERNATIONAL LEUCOCYTE CULTURE CONFERENCE

13TH,1979--
ELSEVIER/NORTH-HOLLAND BIOMEDICAL PRESS
CONTINUES LEUCOCYTE CULTURE CONFERENCE.
AMSTERDAM NETHERLANDS
IN PROCESS
I28450000

PEPTIDES
1,1980--
ANKO INTERNATIONAL
FAYETTEVILLE NY UNITED STATES
ANKHO INTERNATIONAL INC., P.O. BOX 426,
FAYETTEVILLE, N.Y. 13066
ON ORDER
P07585000
\$75.00

PERSPECTIVES IN BIOMECHANICS
 1,1980--
 HARHOOD ACADEMIC PUBLISHERS GMBH
 NEW YORK UNITED STATES
 P.O. BOX 786, COOPER STATION, NEW YORK, NY
 10003
 ON ORDER
 P08910000

PROGRESS IN CLINICAL KIDNEY DISEASE AND
 HYPERTENSION
 1,1980--
 THIEME-STRATTON
 CATALOGING IN PUBLICATION.
 NEW YORK UNITED STATES
 ON ORDER - CIP
 P47410000

PERSPECTIVES ON MEDICAID AND MEDICARE
 MANAGEMENT
 SEPT 1979--
 HEALTH CARE FINANCING ADMINISTRATION
 CONTINUES PERSPECTIVES ON MEDICAID
 MANAGEMENT.
 BALTIMORE MD UNITED STATES
 HEALTH CARE FINANCING ADMINISTRATION, MAIL
 DROP 309. EAST HIGH RISE, 6401 SECURITY
 BLVD. BALTIMORE, MD. 21235
 IN PROCESS
 P09112000

VETERINARY RADIOLOGY
 20N3-6,1979--
 J.B. LIPPINCOTT
 CONTINUES JOURNAL OF THE AMERICAN
 VETERINARY RADIOLOGY SOCIETY.
 PHILADELPHIA UNITED STATES
 IN PROCESS
 V06056000

LIST OF MONOGRAPHS INDEXED
 JUNE 1980

C

Cerebral manifestations of episodic cardiac dysrhythmias
 proceedings of a symposium, June 19-20, 1978, Miami,
 Florida / [editor], Ewald W Busse -- Amsterdam
 Excerpta medica, New York distributed in the U S
 by Elsevier North-Holland, c1979 vii, 232 p ill --
 (Excerpta medica International congress series, no 489)
 ISBN 0-444-90098-5 (Elsevier North-Holland)
 1 Arrhythmia - congresses 2 Cerebral Ischemia -
 congresses 3 Neurologic Manifestations - congresses
 1 Busse, Ewald W., 1917- ed II Title
 Symposium on cerebral manifestations of episodic cardiac
 dysrhythmias III Series
 ISBN 0-444-90098-5 LC 79-33131
 04NLM W3 EX89 no 489 1978
 OXNLM [W3 330 C414 1978]
 IM Cit No 7911779



THE NLM TECHNICAL BULLETIN

JUNE 1980

NO. 134

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DATA BASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	8,827	THROUGH 1980	05 JUN 80	
*BIOETHICS	9,597	JAN 73-OCT 79	19 APR 80	8004(EM)
*CANCERLIT	206,748	JAN 63-APR 80	22 APR 80	8004(EM)
*CANCERPROJ	16,984	1976-1980	06 APR 80	8004(EM)
*CATLINE	199,187	THROUGH 1980	05 JUN 80	
CHEMLINE	452,126		02 MAY 80	
*CLINPROT	1,669		15 OCT 79	7909(EM)
*EPILEPSY	25,635	1945-PRESENT	16 SEP 79	
*HEALTH	145,348	JAN 75-JUN 80	12 MAY 80	8006(EM)
*HISTLINE	40,749		25 APR 80	8004(EM)
MEDLINE	514,129	JAN 78-JUL 80	09 JUN 80	8007(EM)
+MED77	253,234	JAN 77-DEC 77	08 DEC 79	
+MED75	642,953	JAN 75-DEC 76	08 DEC 79	
MED72	669,106	JAN 72-DEC 74	08 DEC 79	
MED69	668,258	JAN 69-DEC 71	08 DEC 79	
MED66	501,802	JAN 66-DEC 68	08 DEC 79	
MESH VOC	34,461	1980	07 APR 80	
*NAME AUTH	110,650		09 JUN 80	
RTECS	36,851	1978	07 SEP 79	
SDILINE	22,785	JUL 80	09 JUN 80	
*SERLINE	34,589	1980	02 MAY 80	
TDB	2,514		22 JAN 80	
TOXLINE	713,634		27 MAY 80	8005(EM)
CBAC	372,310	1974-VOL 31(8,9)		
TOXBIB	138,912	1974-JUN 80		
IPA	39,279	1974-VOL 17(3-6)		
HEEP	80,243	1974-FEB 80		
PESTAB	19,418	1974-MAY 80		
EMIC	27,705	1960-DEC 79		
ETIC	18,206	1950-MAR 79		
RPROJ	16,222	JAN 79-JUL 80		
TOXBACK	379,299		26 FEB 78	
CBAC	167,668	1965-1973		
TOXBIB	127,104	1968-1973		
IPA	19,188	1970-1973		
HEEP	24,680	1971-1973		
HAPAB	12,816	1966-1973		
HAYES	10,043	1940-1966		
TMIC	4,552	1971-1975		
TERA	13,248	1960-1974		

- 1) * = FILES AVAILABLE AT NLM ONLY.
- 2) + = THESE BACKFILES CONTAIN CITATIONS HAVING EITHER A PUBLICATION DATE OR ENTRY DATE FOR THE DATES COVERED.
- 3) MEDLINE BACKFILES AND TOXBACK ARE AVAILABLE ONLY THRU OFFSEARCH AT NLM AND SUNY.

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TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY FOR SPECIAL NOTICES AND MESSAGES

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

TYMNET - Occasionally, when attempting to access NLM or SUNY via TYMNET, a few garbage characters will appear where the message PLEASE TYPE YOUR TERMINAL IDENTIFIER normally appears. This occurs when a previous searcher has used the same TYMNET number at a different speed from the speed at which the current user is operating. The user should ignore these garbage characters and type their correct terminal identifier. Once TYMNET has received the terminal identifier, the network will adjust for the different speed and will ask the user to PLEASE LOG IN:

PAGELNGTH - The page length specified in your PROFILE capability may now be set to up to 100 lines at both NLM and SUNY.

CANCERLIT - The May 1980 update of CANCERLIT, originally scheduled for May 19, has been delayed. A completely regenerated file with the update is expected to be available in late June. Automatic SDI's will be processed and mailed after the file is available.

PRICE AND TIME CHANGES - Reminder: Effective July 1, 1980, Prime Time will be 10 a.m. - 5 p.m. E.T. Price changes effective July 1 are as follows:

TOXLINE/TOXBACK/CHEMLINE

Effective July 1, 1980: Non-Prime - \$13/Connect Hour
 Prime - \$20/Connect Hour
 Page Charges - \$.21/Page

Effective Oct. 1, 1980 Non-Prime - \$21/Connect Hour
 Prime - \$28/Connect Hour
 Page Charges - \$.27/Page

ALL OTHER DATA BASES

Page Charges increase to \$.15 on July 1, 1980;
 Connect Hour charges remain \$8 Non-Prime, \$15 Prime.

A confirming letter regarding these price and time changes was mailed to all domestic users.

PHONES - Appendix A is an updated list of telecommunications phone numbers to be used to access the NLM and SUNY computers.

SUMMARY OF CONCEPTS TO FACILITATE USE OF
THE TOXICOLOGY DATA BANK (TDB)
Darlene K. Futagaki, Ph.D., Specialized Information Services, NLM

Searching TDB

TDB can be searched by compound or by concept (or by combining these two techniques).

1. Compound searching may be accomplished by Synonym searching or Registry Number searching. When compound searching yields a posting, always input the PRT command before requesting all or part of the retrieved record to be printed. Only records carrying the status (ST) 'Complete with Peer Review Comments Incorporated' are available for complete printing.

2. Concept searching in TDB requires familiarity with the structure of the data base and use of a few relatively simple techniques.

a. Examine the Unit Record Description in your TDB manual. Notice that although there are 60 data elements, there are only 13 search mnemonics. The unit record has been divided into search Categories, each containing one or more printable fields. When searching TDB by concept, you will have to determine what category search mnemonic to use (prequalification is necessary when searching TDB, prequalify all except Registry Number search statements).

To illustrate, perhaps you are interested in searching for all compounds in TDB manufactured by Dow Chemical. Notice in the Unit Record Description that there is a Category 'Manufacturing Data' which contains nine specific information fields, one of which is 'Manufacturers'. You would use the Category search mnemonic (MANF) to approach this question, inputting:

SS 1 /C? (MANF) DOW

You must keep in mind that by using this one search mnemonic, you are actually searching each of the specific fields within the Category. When you get your retrieval you have these options:

i.) PRT MANS -- This is the Category print mnemonic; it will cause the name of the record, its status, and every entry from each of the nine fields in this Category to be printed.

ii.) PRT NM, MFS -- With this command you are requesting that only one field in this Category, the 'Manufacturers' field, be printed. You are also requesting that the name of the record be printed. This is important! When requesting that a specific field(s) be printed, also have the name (NM) printed. This is not necessary when using a full Category print mnemonic since the name will automatically print when such a mnemonic is used.

b. Use the NBR command! TDB is primarily a free-text-searchable system; the NBR command will help you:

i.) determine what terms and variations on concept stems are used in the data base.

ii.) determine the categories in which each of these terms appears.

Special Software Application to TDB

The Categories, 'Excerpt Terms' (EX) and 'Index Strings' (IX), have had a software program applied to them that has not been applied to the other Categories in TDB. This software is responsible for the following:

1. It provides for the printing of 'hits' only. For example, suppose you are interested in searching for all compounds in TDB that produce convulsions. This is a toxicity concept and would be included in the 'Animal Toxicity' and/or 'Human Toxicity' excerpt fields in the 'Excerpt' Category. You might enter:

SS 1 /C? (EX) ALL CONVULS:

After getting your postings (for example, ten) you would enter:

PRT EXS

The result would be the printing of your 'hits' only, that is, only those excerpts containing some variation on the stem CONVULS: would be printed, even though many other excerpts are available in each of the ten records you have retrieved.

If you would like to see this illustration online, enter the above search statement and print command; then enter the command:

PRT EXS COMPLETE

The addition of the COMPLETE will cause the total content of the 'Excerpt' Category in each of the retrieved records to be printed. Compare your output from these two print commands. The difference will be quite obvious.

Remember that this software capability applies only to these two categories. They contain the toxicity information in TDB and therefore are those that benefit most from its application (unfortunately, it could not be applied to the entire file).

2. It provides some relief from the problem of false drops that plague a free-text-searchable system. This is seen in the Index String Category.

Although searching the Excerpt Category results in the retrieval of those Excerpts containing the term(s) searched, some false drops may result when searching multi-term concepts. This is because this is a free text Category. To illustrate, suppose you were interested in searching on those compounds in TDB that produced convulsions in rats. The appropriate search strategy would be:

SS 1 /C? (EX) RAT OR RATS (both singular and plural forms must be searched in this free text Category)

SS 2 /C? (EX) ALL CONVULS:

SS 3 /C? 1 AND 2

PRT EXS

This PRINT command would result in the printing of only the 'hits', but because of free text, some false drops could result, e.g., an excerpt which contains the following: "The compound produced convulsions in rabbits; however rats were unaffected." This is a 'hit', but a false drop. In searches such as this, using the Index String Category (explained next), may be a better strategy.

Every Excerpt in TDB has at least one index string associated with it. The index string(s) will express in a telegraphic, controlled manner what is expressed by free text in the excerpt. The string is built of information elements that are linked together; it may look like this:

CHRONIC; RATS; ORAL; NERVOUS SYSTEM; CONVULSIONS

Controlled vocabulary terms are used to express this information. Species will always be plural; route, site and effect will, for the most part, be expressed with MeSH main headings. Study type will be either Acute (defined as one exposure and one exposure only) or Chronic.

If you wished to search for all TDB compounds producing convulsions in rats, you could search the Index String Category:

(IX) RATS AND CONVULSIONS

You would retrieve no false drops by searching in the Index String, while free text searching in the Excerpt Category for the same concepts might well produce some false drops, as explained earlier.

3. Other points to remember about the Excerpt and Index String Categories:

- a. When one is searched, either or both can be printed, e.g.,

(IX) TERM

PRT EXS, IXS

- b. The COMPLETE must be added in order to print these categories if one or both of them have not been searched, e.g.,

(SY) CAFFEINE PSTG (1)

PRT EXS, IXS COMPLETE or
PRT DL COMPLETE

4. A summary of points to remember follows:

- a. TDB can be searched by compound or by concept
- b. When compound searching, PRT to discover the status
- c. When concept searching, you must analyze your concepts, determine what categories to search, where to truncate, what fields to print. The NBR command will help with the first items.
- d. The 60 TDB data elements are covered by 13 search mnemonics. In thinking about these, make the distinction in your mind between a Category and a specific field. When searching, you will use a Category search mnemonic

that will search all fields within the Category. You may print either the entire Category or any of its specific fields.

e. The Excerpt and Index String Categories are governed by a software that provides for the printing of 'hits' only and for a measure of controlled vocabulary searching (in the case of the Index Strings). This does not apply to the rest of the file.

f. In order to see all Excerpts and/or Index Strings, add the word COMPLETE. This must also be added to any PRINT command to view these categories when they have not been searched.

MONTHLY HINT: LOCATING NLM CALL NUMBERS FOR INDEXED
TITLES THAT ARE CLASSED SEPARATELY

The following search hint describes the techniques used to locate NLM call numbers for titles that appear to be serials but are in fact cataloged as independent pieces. Although application of this specific example may be limited, the individual concepts and techniques presented are valuable in searching (e.g., using two or more data bases to get one answer).

Some citations in MEDLINE are from pieces that appear to be serials, but that are actually classed separately (i.e., cataloged independently). This means that each piece has a different call number. It is possible, when confronted with such a MEDLINE citation, to track down the cataloged piece which includes that referenced article; the method is best shown by means of an example. The problem starts with a MEDLINE citation:

```
AJ - Norris CM
TI - The impact of the nurse on the practice environment and consumer
    health.
SO - ANA Publ 1979;(0-135):96-108
```

ANA PUBL?? What kind of journal title abbreviation is that? SERLINE should give a clue. The user logs in to SERLINE:

```
SS 1 /C?
USER:
ana publ (ta)
PROG:
SS (1) PSTG (1)
```

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

```
1
TI - AMERICAN NURSES ASSOCIATION PUBLICATIONS
PL - KANSAS CITY MO
GN - THIS ENTRY IS USED IN INI FOR A MADE SERIES WHICH IS CATALOGED
    SEPARATELY AT NLM.
CA - CLASSED SEP
UI - A25485000
```

The CA field contains the phrase CLASSED SEP rather than a specific NLM call number. In other words, at NLM and libraries that follow its cataloging procedures, no nice neat row of ANA PUBLs exists all together on a shelf because each issue is cataloged independently. So, ANA PUBL is not a proper serial. Neither is it a proper monograph. The MEDLINE citation gave ANA PUBL as a journal title abbreviation; it gave no helpful IN... to tell the user which monograph contains the citation. But SERLINE tells the user that each issue is a monograph and the article can only be found by first finding the monograph of which it is a part.

CATLINE is the only place left to search. The author in the MEDLINE citation will not be there; the article title will not be there. In this case, the linking information will be there as a series, and series can be searched either directly or by Text Words. (In other cases, the linking information may be there as a corporate/conference name, and such names can be searched most easily by Text Words.) The user logs into CATLINE:

```

USER:
nbr ana publ (se)
PROG:

POSTINGS      TERM
  9          AN URBAN INSTITUTE PAPER ON HEALTH
  1          AN URBAN SYSTEMS RESEARCH REPORT
  1          ANA PUBLICATION ;
  29         ANA PUBLICATION CODE ;
  1          ANA PUBLICATION CODE ; PHD
UP N OR DOWN N?
    
```

The user, taking no chances, enters

```
find all ana publication: (se)
```

and is rewarded with 31 postings. Remembering the source field of the original citation,

```
SO - ANA PUBL 1979;(G-135):96-108
```

the user then performs a STRINGSEARCH of the series (SE) field of the 31 retrieved citations in CATLINE:

```
ts (se) :g-135:
```

and retrieves one citation:

```

CN - American Nurses' Association/
TI - Power : nursing's challenge for change/G
TC - : papers presented at the 51st convention, Honolulu, Hawaii,
     June 9-14, 1978.
IM - Kansas City ::American Nurses' Assn.:1979.
CO - v. 178 p.
SE - ANA publication code 1/G-135 5K 3/79/G
CA - NY 16 A512pc 1978:04NLM
EL - F
IT - MONOGRAPH
MT - CORPORATE NAME MAIN ENTRY
DA - 790607
UI - 7905336
    
```

Thus by STRINGSEARCHing the SERLINE serial name as a CATLINE series name for the relevant issue number, the user has located the title and call number of the monograph at NLM which contains the citation retrieved in MEDLINE.

Five titles indexed for MEDLINE and its backfiles are known to be classed separately. Two are specifically indexed for the International Nursing Index and have citations in the current MEDLINE file:

AMERICAN NURSES ASSOCIATIONS PUBLICATIONS (ANA PUBL)
(A "made" series; used in above example.)

NLN PUBLICATIONS (NLN PUBL)
(A "made" series since 1974; search as in above example.)

Three titles have been indexed for the Index to Dental Literature and have citations in the backfiles (none currently in MEDLINE). These titles are:

ODONTOLOGIE CONSERVATRICE

PROCEEDINGS OF THE INTERNATIONAL ACADEMY OF ORAL PATHOLOGY

SYMPOSIUM OF THE PHARMACOLOGY, THERAPEUTICS AND TOXICOLOGY GROUP,
INTERNATIONAL ASSOCIATION FOR DENTAL RESEARCH

Our thanks to Ms. Nancy Hewison of the University of Oregon Health Sciences Library in Portland for suggesting this search hint.

LIST OF MONOGRAPHS INDEXED JULY 1980

B

Brambell Symposium, 2d, Bangor, Wales, 1978. Protein transmission through living membranes / edited by W A Hemmings -- Amsterdam, New York Elsevier/North-Holland Biomedical Press, New York sole distributors for the U S A and Canada, Elsevier North-Holland, c1979 xv, 432 p ill 1st congress called Symposium on Transmission of Immunoglobulins from Mother to Young
I Biological Transport - congresses 2 Cell Membrane - metabolism - congresses 3 Intestinal Absorption - congresses 4 Proteins - metabolism - congresses I Hemmings, William A, ed II Symposium on Transmission of Immunoglobulins from Mother to Young, Bangor, Wales, 1974 III Title
ISBN 0-444-80112-X LC 79-15662
04NLM W3 BR31 2d 1978p
0XNLM [QU 55 B815 1978p]
IM Cit No 8002817

F

Folic acid in neurology, psychiatry, and internal medicine / editors, M I Botez, E H Reynolds -- New York Raven Press, c1979 xvi, 534 p ill Proceedings of a symposium
I Folic Acid Deficiency - congresses 2 Folic Acid - congresses 3 Neurology - congresses I Botez, Mihai Ioan, ed II Reynolds, Edward Henry, ed III Title Symposium on folic acid in neurology, psychiatry, and internal medicine
ISBN 0-89004-318-8 LC 78-57243
04NLM WD 120 F665 1979
IM Cit No 8002235

NEW SERIALS ANNOUNCEMENT - MAY 1980
 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 ADVANCES IN MYOCARDIOLOGY
 1,1980--
 UNIVERSITY PARK PRESS
 SUPERSEDES RECENT ADVANCES IN STUDIES ON
 CARDIAC STRUCTURE AND METABOLISM.
 BALTIMORE UNITED STATES
 IN PROCESS
 A14570000

AMERICAN JOURNAL OF INDUSTRIAL MEDICINE
 1980--
 ALAN LISS
 NEW YORK UNITED STATES
 ON ORDER
 A24303000

IM ANAESTHESIE INTENSIVTHERAPIE NOTFALLMEDIZIN
 15, FEB 1980--
 GEORG THIEME VERLAG
 CONTINUES PRAKTISCHE ANAESTHESIE
 WIEDERBELEBUNG UND INTENSIVTHERAPIE.
 STUTTGART GERMANY, WEST
 IN PROCESS
 A26570000

ANALYSIS AND INTERVENTION IN DEVELOPMENTAL
 DISABILITIES
 1,1980--
 PERGAMON
 ELMSFORD NY UNITED STATES
 ON ORDER
 A29740000

APPLIED RESEARCH IN MENTAL RETARDATION
 1,1980--
 PERGAMON PRESS
 ELMSFORD NY UNITED STATES
 ON ORDER
 A57796000

AUSTRALIAN JOURNAL OF DEVELOPMENTAL
 DISABILITIES
 6,1980--
 AUSTRALIAN GROUP FOR THE SCIENTIFIC STUDY
 OF MENTAL DEFICIENCY
 CONTINUES THE AUSTRALIAN JOURNAL OF MENTAL
 RETARDATION.
 MELBOURNE? AUSTRALIA
 EDITOR, AUSTRALIAN JOURNAL OF DEVELOPMENTAL
 DISABILITIES, INSTITUTE OF SPECIAL
 EDUCATION, BURWOOD STATE COLLEGE, BURWOOD,

VICTORIA 3125, AUSTRALIA
 ON ORDER
 A75410000

BEHAVIOUR ANALYSIS LETTERS
 1,1980--
 ELSEVIER/NORTH-HOLLAND
 AMSTERDAM NETHERLANDS
 ON ORDER
 B02610000

BEITRAEGE ZUR ONKOLOGIE
 1,1979--
 S. KARGER
 BASEL SWITZERLAND
 IN PROCESS
 B03555000

BIOLOGICAL RESEARCH IN PREGNANCY
 1980--
 JACK K. BURGESS
 ENGLEWOOD NJ UNITED STATES
 ON ORDER
 B16993000

BIOPSYCHOSOCIAL HEALTH
 1980?--
 PERGAMON PRESS
 ELMSFORD NY UNITED STATES
 PERGAMON PRESS, MAXWELL HOUSE, FAIRVIEW
 PARK, ELMSFORD, N.Y. 10523
 ON ORDER
 B19310000

CANADIANA. MICROFICHE
 JAN,1978--
 NATIONAL LIBRARY OF CANADA
 OTTAWA CANADA
 ON ORDER
 C04970000

CARDIOVASCULAR REVIEWS AND REPORTS
 1N1, APR 1980--
 LE JACQ PUBLISHING
 NEW YORK UNITED STATES
 LE JACQ PUBLISHING, 130 JOHN ST., NEW YORK,
 NY 10038
 IN PROCESS
 C07690000
 \$32.00

CLINICAL IMMUNOLOGY NEWSLETTER
1,1980--
G.K. HALL
BOSTON
ON ORDER
C25745000
UNITED STATES

CLINICAL OUTLINES IN MEDICINE
1,1980--
CADMUS
NEW YORK
ON ORDER
C26290000
UNITED STATES

CODEX ALIMENTARIUS COMMISSION REPORTS
1980?--
UNIFUB
NEW YORK
ON ORDER
C28350000
UNITED STATES

CONTEMPORARY HEMATOLOGY/ONCOLOGY
1,1980--
PLENUM MEDICAL BOOK CO
SUPERSEDES THE YEAR IN HEMATOLOGY.
NEW YORK
W1 C0769HQ
C46745500
UNITED STATES

CRC HANDBOOK OF CLINICAL ENGINEERING
1980--
CRC PRESS
CATALOGING IN PUBLICATION. CALLED ALSO:
HANDBOOK OF CLINICAL ENGINEERING.
BOCA RATON FL
ON ORDER - CIP
C51330000
UNITED STATES

DEVELOPMENTS IN ENVIRONMENTAL CONTROL AND
PUBLIC HEALTH
1,1979--
APPLIED SCIENCE PUBLISHERS
LONDON ENGLAND
APPLIED SCIENCE PUBLISHERS, RIPPLE ROAD,
BARKING, ESSEX, ENGLAND
W1 DE997VWF
D08301000

IM EAR AND HEARING
1, JAN/FEB 1980--
WILLIAMS AND WILKINS
SUPERSEDES JOURNAL OF THE AMERICAN AUDITORY
SOCIETY.
BALTIMORE
IN PROCESS
E00010000
UNITED STATES

EQUILIBRIUM IN PATIENTS AND RESEARCH
7,1980--
DE GRUYTER
CONTINUES VERHANDLUNGEN DER GESELLSCHAFT
FUR NEUROOTOLOGIE UND AEQUILIBRIOMETRIE.
PROCEEDINGS OF THE NEUROOTOLOGICAL AND
EQUILIBRIOMETRIC SOCIETY. CONSISTS OF
PROCEEDINGS OF THE 6TH- SCIENTIFIC MEETING
OF THE NEUROOTOLOGICAL AND EQUILIBRIOMETRIC
SOCIETY, 1979-.
BERLIN
ON ORDER - CIP
E11675000
GERMANY, WEST

GREENLAND BIOSCIENCE
1,1979--
ARNOLD BUSCK
CONTINUES MEDDELESER OM GRONLAND. ISSUED
BY THE COMMISSION FOR SCIENTIFIC RESEARCH
IN GREENLAND.
COPENHAGEN DENMARK
ON ORDER
G11650000

HEALTH EDUCATION QUARTERLY
1980--
HUMAN SCIENCES PRESS
NEW YORK
ON ORDER
H04935000
UNITED STATES

HUMAN SYSTEMS MANAGEMENT
1,1980--
ELSEVIER/NORTH HOLLAND
AMSTERDAM NETHERLANDS
ON ORDER
H22614000

IMMUNOLOGY TODAY
1980--
ELSEVIER/NORTH HOLLAND BIOMEDICAL PRESS
AMSTERDAM NETHERLANDS
ON ORDER
I06245000

INSECT SCIENCE AND ITS APPLICATION
1,1980--
PERGAMON PRESS
OXFORD ENGLAND
ON ORDER
I17390000

INTERNATIONAL JOURNAL OF REMOTE SENSING
1,1980--
STECHELT MACMILLAN
NEW YORK
ON ORDER
I28050000
UNITED STATES

INTERNATIONAL JOURNAL OF THERAPEUTIC
COMMUNITIES
1,1980--
HUMAN SCIENCES PRESS
NEW YORK
ON ORDER
I28255000
UNITED STATES

ION-SELECTIVE ELECTRODE REVIEWS
1,1980--
PERGAMON PRESS
NEW YORK
ON ORDER
I38170000
UNITED STATES

JANSSEN RESEARCH FOUNDATION SERIES
1,1979--
ELSEVIER/NORTH-HOLLAND BIOMEDICAL PRESS
AMSTERDAM NETHERLANDS
W1 JA82
J03450000

JERNAH PERUBATAN - UKM
1, JUL 1970--
NATIONAL UNIVERSITY OF MALAYSIA
KUALA LUMPUR MALAYSIA
IN PROCESS
J07310000

JOURNAL OF CRANIOFACIAL GENETICS AND
DEVELOPMENTAL BIOLOGY
1, 1980--
JOHN WILEY AND SONS
NEW YORK UNITED STATES
ON ORDER
J18030000

MEDICAL LIABILITY ADVISORY SERVICE
1980--
CAPITOL PUBLICATIONS
WASHINGTON DC UNITED STATES
ON ORDER
M15470000

MEDIZINHISTORISCHE MATERIALIEN
1, 1970--
HANNELORE LUELING
ERLANGEN GERMANY, WEST
VERLAGSBUCHHANDLUNG HANNELORE LUELING
LIEBIGSTR 8/ POSTFACH 2544 D-8520,
ERLANGEN, WEST GERMANY
IN PROCESS
M25290000

IM NETHERLANDS JOURNAL OF SURGERY
32, 1980--
BOHN, SCHELTEMA EN HOLKEMA
CONTINUES ARCHIVUM CHIRURGICUM
NEERLANDICUM.
UTRECHT NETHERLANDS
BOHN, SCHELTEMA EN HOLKEMA EMMALAAN 27,
UTRECHT
W1 HE2295
N11875000

NEUROCHEMISTRY INTERNATIONAL
1, 1980--
PERGAMON PRESS
OXFORD ENGLAND
ON ORDER
N12530000

NUTRITION ACTION
1980?--
CENTER FOR SCIENCE IN THE PUBLIC INTEREST
WASHINGTON UNITED STATES
NUTRITION ACTION, CENTER FOR SCIENCE IN THE
PUBLIC INTEREST, 1755 S STREET, N.W, WASH,
D.C. 20009
ON ORDER
N35670000

ODONTO-STOMATOLOGIE TROPICALE. TROPICAL
DENTAL JOURNAL
1, FEB 1978--
SUPERSEDES REVUE DU SESDA.
DAKAR SENEGAL
PR. G. GRAPPIN, B.P.2932, DAKAR, SENEGAL
ON ORDER
003070000

PROGRESS IN CONTRACEPTIVE DELIVERY SYSTEMS
1, 1980--
G. K. HALL
CATALOGING IN PUBLICATION.
BOSTON UNITED STATES
ON ORDER - CIP
P47570000

PROSTAGLANDINS AND RELATED LIPIDS
1, 1980--
LISS
CATALOGING IN PUBLICATION.
NEW YORK UNITED STATES
ON ORDER - CIP
P50290000

IM REPRODUCTION, NUTRITION, DEVELOPMENT
20, 1980--
INSTITUT NATIONAL DE LA RECHERCHE
AGRONOMIQUE
CONTINUES ANNALES DE BIOLOGIE ANIMALE,
BIOCHIMIE, BIOPHYSIQUE
PARIS FRANCE
IN PROCESS
R22725000

IM RESEARCH QUARTERLY FOR EXERCISE AND SPORT
51, MAR 1980--
AMERICAN ALLIANCE FOR HEALTH, PHYSICAL
EDUCATION, RECREATION, AND DANCE
CONTINUES RESEARCH QUARTERLY.
WASHINGTON UNITED STATES
300 NORTH ZEEB RD. ANN ARBOR, MICHIGAN 48106
IN PROCESS
R24730000

REVISTA DE INFECTOPATOLOGIA
1, 1978?--
ALFARD EDITORES ASOCIADOS
CONTINUES ANUARIO DE INFECTOPATOLOGIA.
BUENOS AIRES? ARGENTINA
IN PROCESS
R35310000

SPRINGER SERIES ON ADULTHOOD AND AGING
1, 1980--
NEW YORK
SPRINGER UNITED STATES
ON ORDER
S36704000

STUDIES IN ORGANIC CHEMISTRY
1, 1979--
ELSEVIER SCIENTIFIC PUBLISHING COMPANY
AMSTERDAM NY NETHERLANDS
W1 ST931
S44511000

TOXIC SUBSTANCES SOURCEBOOK
1, 1978--
ENVIRONMENT INFORMATION CENTER, TOXIC
SUBSTANCES REFERENCE DEPT
NEW YORK UNITED STATES
ENVIRONMENT INFORMATION CENTER, INC., TOXIC
SUBSTANCES REFERENCE DEPT., 292 MADISON
AVE, NEW YORK, N.Y. TEL (212) 949-9494
IN PROCESS
T13770000
\$76.00

NLM TECHNICAL BULLETIN - JUN 80

IM VERHANDLUNGEN DER DEUTSCHEN GESELLSCHAFT
FUR HERZ- UND KREISLAUFFORSCHUNG
45, 1979--
DR DIETRICH STEINKOPFF VERLAG
CONTINUES VERHANDLUNGEN DER DEUTSCHEN
GESELLSCHAFT FUR KREISLAUFFORSCHUNG.
DAFMSTADT GERMANY, WEST
IN PROCESS
V02050000

IM ZENTRALBLATT FUR BAKTERIOLOGIE. A.
ORIGINALE 1.ABT. MEDIZINISCHE
MIKROBIOLOGIE. INFEKTIONSKRANKHEITEN UND
PARASITOLOGIE
246N1, FEB 1980--
GUSTAV FISCHER VERLAG
CONTINUES ZENTRALBLATT FUR BAKTERIOLOGIE
PARASITENKUNDE, INFEKTIONSKRANKHEITEN UND
HYGIENE. 1 ABT. ORIGINALE REIHE A.
MEDIZINISCHE MIKROBIOLOGIE UND PARASITOLOGIE
STUTT GART GERMANY, WEST
IN PROCESS
Z06610000

IM ZENTRALBLATT FUR BAKTERIOLOGIE. B ORIGINALE
1.ABT. HYGIENE. KRANKENHAUSHYGIENE.
BETRIEBSHYGIENE. PRAEVENTIVE MEDIZIN
170N1/2, 1980--
GUSTAV FISCHER VERLAG
CONTINUES ZENTRALBLATT FUR BAKTERIOLOGIE,
PARASITENKUNDE, INFEKTIONSKRANKHEITEN UND
HYGIENE. ERSTE ABTEILUNG ORIGINALE. REIHE
B: HYGIENE, BETRIEBSHYGIENE, PRAEVENTIVE
MEDIZIN.
STUTT GART GERMANY, WEST
IN PROCESS
Z06615000

ZOOZOOSES
1, 1978?--
PAN AMERICAN HEALTH ORGANIZATION, PAN
AMERICAN ZOOZOOSES CENTER
BUENOS AIRES ARGENTINA
PAN AMERICAN ZOOZOOSES CENTER, CASILLA DE
COPPEO 23, RAMOS MEJIA, BUENOS AIRES,
ARGENTINA
IN PROCESS
Z09190000

PHONES LIST

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FOR 120 CPS USE COMPATIBLE MODEMS INCLUDE:

V3405 = VADIC 3405 MODEM COMPATIBLE. THE FOLLOWING VADIC MODEMS ARE V3405 COMPATIBLE: VA3455P, VA3451P, VA3434. THE FOLLOWING ANDERSON JACOBSON MODEMS ARE V3405 COMPATIBLE: AJ1234 AND AJ1255.

B/V = TELENET VADIC SUPER MODEM (V3467) NODE. USERS WITH EITHER B212A OR V3405-COMPATIBLE MODEMS MAY USE THESE NUMBERS.

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				205/251-2495		
AL	BESSEMER				205/326-3420	B/V	120
AL	BIRMINGHAM	205/942-4141	B		205/251-2495		
AL	BIRMINGHAM				205/326-3420	B/V	120
AL	HUNTSVILLE	205/533-5137	FX	B			
AL	MONTGOMERY	205/834-3410	FX	B			
AR	LITTLE ROCK	501/372-5780	FX	B			
AZ	MESA				602/257-1552		
AZ	MESA				602/271-0533	B/V	120
AZ	PHOENIX	602/249-9261	B		602/257-1552		
AZ	PHOENIX	602/249-3862	B212A	120	602/271-0533	B/V	120
AZ	SCOTTSDALE				602/257-1552		
AZ	SCOTTSDALE				602/271-0533	B/V	120
AZ	TEMPE				602/257-1552		
AZ	TEMPE				602/271-0533	B/V	120
AZ	TUCSON	602/790-5333	B		602/790-0427		
AZ	TUCSON	602/622-2758	B212A	120			
CA	ALHAMBRA	213/572-0999	FX	B	213/956-8235		
CA	ALHAMBRA				213/246-0318	B/V	120
CA	ARCADIA	213/574-7636	FX				
CA	ANAHEIM				714/558-6061		
CA	BURLINGAME	415/348-4992	FX	B	415/595-0360		
CA	BURLINGAME				415/591-0726	B/V	120
CA	CANOVA PARK				213/549-5150		
CA	COLTON	714/825-9372	B		714/824-1710		
CA	COLTON				213/549-5150	B/V	120
CA	CUPERTINO	408/446-7309	B212A	120			
CA	CUPERTINO	408/446-7001	V3405	120			
CA	CUPERTINO	408/446-1470	B		408/279-8450		
CA	CUPERTINO	408/257-0593	CCITT RESTRICTED FOR OVERSEAS USE ONLY				
CA	EL MONTE				213/956-8235		
CA	EL MONTE				213/246-0318	B/V	120
CA	EL SEGUNDO	213/640-1570	B		213/822-9287		
CA	EL SEGUNDO	213/640-1281	B212A	120			
CA	FRESNO	209/445-0911	FX	B			
CA	FULLERTON				714/558-6061		
CA	GARDEN GROVE				714/891-5711		
CA	GLENDALE				213/956-8235		
CA	GLENDALE				213/246-0318	B/V	120
CA	HAYWARD	415/785-3431	B				
CA	HOLLYWOOD				213/624-5230		
CA	HOLLYWOOD				213/937-3580		

ST	CITY	TVMNET	TYPE	SPEED	TELENET	TYPE	SPEED
CA	HOLLYWOOD				213/624-0901	B212A	120
CA	HOLLYWOOD				213/624-1521	V3405	120
CA	HUNTINGTON BEACH				714/558-6061		
CA	INGLEWOOD				213/624-5230		
CA	INGLEWOOD				213/937-3580		
CA	INGLEWOOD				213/624-0901	B212A	120
CA	INGLEWOOD				213/624-1521	V3405	120
CA	LONG BEACH				213/549-5150		
CA	LONG BEACH				213/548-6141	B/V	120
CA	LOS ALTOS				415/856-9930		
CA	LOS ANGELES	213/683-0451	B		213/624-5230		
CA	LOS ANGELES	213/629-3451	B				
CA	LOS ANGELES	213/629-1561	B		213/937-3580		
CA	LOS ANGELES	213/687-8083	V3405	120	213/624-1521	V3405	120
CA	LOS ANGELES	213/626-0365	B212A	120	213/624-0901	B212A	120
CA	MARINA DEL REY	213/821-2257	FX B		213/822-9287		
CA	MODESTO	209/578-4236	FX B				
CA	MOUNTAIN VIEW	415/961-7971	B		408/856-9930		
CA	MOUNTAIN VIEW	415/941-8450	B				
CA	MOUNTAIN VIEW	415/949-0330	B212A	120			
CA	NEWPORT BEACH	714/540-9560	B		714/558-6061		
CA	NEWPORT BEACH	714/540-0951	B212A	120			
CA	NORTHRIDGE	213/998-4872	FX B212A	120			
CA	NORWALK	213/865-2066	FX B212A	120			
CA	OAKLAND	415/836-8700	B		415/362-6200		
CA	OAKLAND	415/836-8900	B212A	120	415/956-5787	B212A	120
CA	OAKLAND				415/956-5777	V3405	120
CA	OXNARD				805/659-4660		
CA	PALO ALTO	415/856-9080	B		415/856-9930		
CA	PASADENA	213/577-8722	FX B212A	120	213/956-8235		
CA	PASADENA				213/246-0318	B/V	120
CA	REDWOOD CITY				415/595-0360		
CA	REDWOOD CITY				415/591-0726	B/V	120
CA	RIVERSIDE	714/825-9372	B		714/824-1710		
CA	SACRAMENTO	916/441-6550	B		916/443-7921		
CA	SACRAMENTO	916/448-8151	B212A	120	916/448-6262	B/V	120
CA	SAN BERNADINO				714/824-1710		
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	714/293-3590	B212A	120	714/233-0233	B/V	120
CA	SAN DIEGO	714/291-8700	B		714/231-1922		
CA	SAN FRANCISCO	415/391-9325	B		415/362-6200		
CA	SAN FRANCISCO	415/362-4307	B				
CA	SAN FRANCISCO	415/421-7121	V3405	120	415/956-5777	V3405	120
CA	SAN FRANCISCO	415/788-7955	B212A	120	415/956-5787	B212A	120
CA	SAN FRANCISCO	415/981-5990	B212A	120			
CA	SAN JOSE	408/446-7001	V3405	120			
CA	SAN JOSE	408/446-7309	B212A	120			
CA	SAN JOSE	408/446-1470	B		408/279-8450		
CA	SAN MATEO				415/595-0360		
CA	SAN MATEO				415/591-0726	B/V	120
CA	SAN PEDRO	213/830-0775	FX B		213/549-5150		
CA	SAN PEDRO				213/548-6141	B/V	120
CA	SANTA ANA				714/558-6061		
CA	SANTA BARBARA	805/687-6119	FX B				
CA	SANTA CLARA				408/279-8450		
CA	SANTA MONICA				213/822-9287		
CA	SANTA ROSA	707/526-4260	B				
CA	SUNNYVALE				408/279-8450		
CA	TORRANCE				213/822-9287		
CA	VAN NUYS	213/986-9503	FX B				
CA	VENTURA	805/487-0482	B		805/659-4660		
CA	VISTA	714/727-6011	FX B				
CA	WOODSIDE				415/856-9930		
CO	AURORA				303/623-0876		
CO	AURORA				303/629-1821	B212A	120
CO	BOULDER				303/623-0876		
CO	BOULDER				303/629-1821	B212A	120
CO	COLO. SPRINGS	303/475-2121	FX B				
CO	DENVER	303/573-9981	B		303/623-0876		
CO	DENVER	303/573-0177	B				
CO	DENVER	303/572-1107	V3405	120			
CO	DENVER	303/825-0635	B212A	120	303/629-1821	B212A	120
CO	LAKWOOD				303/623-0876		
CO	LAKWOOD				303/629-1821	B212A	120
CT	BRIDGEPORT	203/579-7820	FX B				

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPLD	
CT	DANBURY	203/743-1340	FX B					
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	203/568-2610	B		203/522-0344			
CT	HARTFORD	203/569-3643	B212A	120	203/247-9479	B/V	120	
CT	MILFORD				203/789-0211			
CT	NEW HAVEN	203/789-0579	B		203/789-0211			
CT	NEW HAVEN	203/787-1702	B212A	120				
CT	STAMFORD				203/357-1800			
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	703/841-0200	B		202/347-1400			
DC	WASHINGTON	703/841-0265	B					
DC	WASHINGTON	703/841-9560	B		202/783-2050			
DC	WASHINGTON	703/841-9330	V3405	120	202/347-6093	V3405	120	
DC	WASHINGTON	703/524-9214	B212A	120	202/347-3061	B212A	120	
DC	WASHINGTON	703/734-8370	B212A	120	202/347-6757	B/V	120	
DC	WASHINGTON*	301/656-2726		30				
DC	WASHINGTON*	301/657-1896		30				
DC	WASHINGTON*	301/496-1994	FTS	15/30				
DC	WASHINGTON*	301/654-2540		15				
DC	WASHINGTON*	301/492-1840	B202	120				
DC	WASHINGTON*	301/652-4466	B212A	120				
DC	WASHINGTON*	301/656-4773	V3405	120				
DC	WASHINGTON*	301/656-4774	B/V	120				
DE	WILMINGTON	302/658-5261	FX B		302/737-8550			
FL	CLEARWATER				813/823-3223			
FL	DAYTONA BEACH	904/252-4481	FX B					
FL	FT LAUDERDALE	305/467-7550	FX B		305/764-8880			
FL	FT LAUDERDALE	305/467-3807	B212A	120	305/764-4505	B/V	120	
FL	JACKSONVILLE	904/721-8100	B		904/356-0790			
FL	JACKSONVILLE				904/356-2264	B/V	120	
FL	MIAMI	305/374-7120	B		305/371-4801			
FL	MIAMI	305/358-7271	B212A	120	305/371-4822	B/V	120	
FL	ORLANDO	305/851-3530	(30 CPS ONLY)		305/849-9600			
FL	ORLANDO	305/859-7670	B212A	120	305/422-4088	B/V	120	
FL	PENSACOLA	904/434-0134	FX B					
FL	ST PETERSBURG	813/535-6441	B		813/823-3223			
FL	SARASOTA	813/365-3526	FX B212A	120				
FL	TAMPA	813/977-8032	FX B		813/224-9920			
FL	TAMPA	813/933-2324	B212A	120	813/223-1088	B/V	120	
FL	W PALM BEACH	305/622-2871	FX B					
GA	ATLANTA	404/659-6670	B		404/577-8911			
GA	ATLANTA	404/581-0619	B212A	120	404/523-0834	B/V	120	
GA	SAVANNAH	912/352-7259	FX B					
HI	HONOLULU	CONTACT HAWAII TELEPHONE COMPANY FOR ACCESS						
IA	CEDAR RAPIDS	319/363-2482	FX B					
IA	COUNCIL BLUFFS				402/341-7570			
IA	COUNCIL BLUFFS				402/341-7733	B212A	120	
IA	DES MOINES	515/280-9600	B					
IA	IOWA CITY	319/354-7371	FX B					
ID	BOISE	208/343-4851	B					
ID	BOISE	208/344-4311	B212A	120				
IL	ARLINGTON HTS				312/372-4901			
IL	ARLINGTON HTS				312/263-3069	B212A	120	
IL	CHAMPAIGN				217/384-0011			
IL	CHICAGO	312/346-4961	B		312/372-4901			
IL	CHIAGO	312/368-4700	B					
IL	CHICAGO	312/368-4607	B					
IL	CHICAGO	312/641-1630	B212A	120	312/263-3069	B212A	120	
IL	CHICAGO	312/372-0391	V3405	120	312/726-1957	V3405	120	
IL	CICERO				312/372-4901			
IL	CICERO				312/263-3069	B212A	120	
IL	CICERO				312/726-1957	V3405	120	
IL	E. ST. LOUIS				314/231-8800			
IL	E. ST. LOUIS				314/241-8150	B/V	120	
IL	FREEPORT	815/233-5585	B					
IL	JOLIET	815/723-9854	B212A	120				
IL	OAK PARK				312/372-4901			
IL	OAK PARK				312/263-3069	B212A	120	
IL	OAK PARK				312/726-1957	V3405	120	
IL	PEORIA	309/673-2156	FX B					

ST	CITY	TVMNET	TYPE	SPEED	TELENET	TYPE	SPEED
IL	ROCKFORD	815/398-6090	B				
IL	SKOKIE				312/372-4901		
IL	SKOKIE				312/263-3069	B212A	120
IL	SKOKIE				312/726-1957	V3405	120
IL	SPRINGFIELD	217/753-7905	B		217/753-1362		
IL	SPRINGFIELD	217/753-7900	B212A	120			
IL	SPRINGFIELD				217/753-1373	B/V	120
IL	URBANA				217/384-0011		
IN	EVANSVILLE	812/423-6685	FX B				
IN	FT WAYNE	219/424-5162	FX B				
IN	INDIANAPOLIS	317/926-1253	B212A	120	317/634-5708	B/V	120
IN	INDIANAPOLIS	317/257-3461	B		317/635-9630		
IN	MARION	317/662-0091	FX B				
IN	MERRILLVILLE	219/769-7254	FX B				
IN	MISHAWKA				219/234-9071		
IN	MISHAWKA				219/233-7105	B/V	120
IN	OSCEOLA				219/234-9071		
IN	OSCEOLA				219/233-7105	B/V	120
IN	SOUTH BEND	219/233-4163	B		219/234-9071		
IN	SOUTH BEND				219/233-7105	B/V	120
KS	KANSAS CITY	913/677-2833	B		816/474-1600		
KS	KANSAS CITY	913/677-0707	B212A	120	816/421-0375	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				
KS	WICHITA	316/265-1241	B				
KS	WICHITA	313/264-7386	B212A	120			
KY	LEXINGTON	606/253-3463	B				
KY	LEXINGTON	606/361-2645	B212A	120			
KY	LOUISVILLE	502/361-3881	B		502/589-7520		
KY	LOUISVILLE	502/361-2645	B212A	120	502/589-5580	B/V	120
LA	BATON ROUGE	504/292-4050	B				
LA	BATON ROUGE	504/292-2650	B212A	120			
LA	LAFAYETTE	318/235-3501	FX B				
LA	NEW ORLEANS	504/586-1071	B		504/524-0783		
LA	NEW ORLEANS				504/524-4094	B212A	120
LA	NEW ORLEANS	504/524-4371	B212A	120			
LA	SHREVEPORT	318/688-4666	B				
MA	ARLINGTON	617/482-4677	B				
MA	ARLINGTON	617/482-5622	B		617/338-1400		
MA	ARLINGTON	617/482-3386	B212A	120	617/542-0754	B212A	120
MA	ARLINGTON	617/482-1854	V3405	120	617/338-7495	V3405	120
MA	BOSTON	617/482-4677	B				
MA	BOSTON	617/482-5622	B		617/338-1400		
MA	BOSTON	617/482-3386	B212A	120	617/542-0754	B212A	120
MA	BOSTON	617/482-1854	V3405	120	617/338-7495	V3405	120
MA	BROOKLINE	617/482-4677	B				
MA	BROOKLINE	617/482-5622	B		617/338-1400		
MA	BROOKLINE	617/482-3386	B212A	120	617/542-0754	B212A	120
MA	BROOKLINE	617/482-1854	V3405	120	617/338-7495	V3405	120
MA	CAMBRIDGE	617/482-4677	B				
MA	CAMBRIDGE	617/482-5622	B		617/338-1400		
MA	CAMBRIDGE	617/482-3386	B212A	120	617/542-0754	B212A	120
MA	CAMBRIDGE	617/482-1854	V3405	120	617/336-7495	V3405	120
MA	CHICOPEE	413/781-6830	B		413/739-7221		
MA	HOLYOKE	413/781-6830	B		413/739-7221		
MA	MEDFORD	617/482-4677	B				
MA	MEDFORD	617/482-5622	B		617/338-1400		
MA	MEDFORD	617/482-3386	B212A	120	617/542-0754	B212A	120
MA	MEDFORD	617/482-1854	V3405	120	617/338-7495	V3405	120
MA	NEWTON	617/482-4677	B				
MA	NEWTON	617/482-5622	B		617/338-1400		
MA	NEWTON	617/482-3386	B212A	120	617/542-0754	B212A	120
MA	NEWTON	617/482-1854	V3405	120	617/338-7495	V3405	120
MA	QUINCY	617/482-4677	B				
MA	QUINCY	617/482-5622	B		617/338-1400		
MA	QUINCY	617/482-3386	B212A		617/542-0754	B212A	120
MA	QUINCY	617/482-1854	V3405	120	617/338-7495	V3405	120
MA	SOMERVILLE	617/482-4677	B				
MA	SOMERVILLE	617/482-5622	B		617/338-1400		
MA	SOMERVILLE	617/482-3386	B212A	120	617/542-0754	B212A	120
MA	SOMERVILLE	617/482-1854	V3405	120	617/338-7495	V3405	120
MA	SPRINGFIELD	413/781-6830	B		413/739-7221		
MA	WALTHAM	617/482-4677	B				
MA	WALTHAM	617/482-5622	B		617/338-1400		
MA	WALTHAM	617/482-3386	B212A	120	617/542-0754	B212A	120
MA	WALTHAM	617/482-1854	V3405	120	617/338-7495	V3405	120

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
MA	WORCESTER	617/754-9451	FX B				
MA	WORCESTER	617/755-5601	B212A	120			
MD	ANNAPOLIS	301/547-8100	B		301/962-5010		
MD	ANNAPOLIS	301/685-2845	B212A	120	301/685-3339	B/V	120
MD	BALTIMORE	301/547-8100	B		301/962-5010		
MD	BALTIMORE	301/244-8959	B212A	120	301/685-3339	B/V	120
MD	BETHESDA	703/841-0200	B		202/347-1400		
MD	BETHESDA	703/524-9215	B212A	120	202/347-3061	B212A	120
MD	BETHESDA	703/841-9330	V3405	120	202/347-6093	V3405	120
MD	COLLEGE PARK	703/841-0200	B		202/347-1400		
MD	DUNDALK	301/547-8100	B		301/962-5010		
MD	ROCKVILLE	703/841-0200	B		202/347-1400		
MD	SILVER SPRING	703/841-0200	B		202/347-1400		
MD	TOHSON	301/547-8100	B		301/962-5010		
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	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	GRAND RAPIDS	616/459-5069	FX B				
MI	GRAND RAPIDS	616/456-9092	B212A	120			
MI	JACKSON	517/787-9461	B				
MI	KALAMAZOO	616/385-3150	B				
MI	LANSING	517/487-2040	FX B				
MI	MANISTEE	616/723-8760	FX B				
MI	PLYMOUTH	313/459-8900	B				
MI	PLYMOUTH	313/453-6020	B212A	120			
MI	SOUTHFIELD	313/569-8350	B				
MI	ST JOSEPH	616/429-2568	FX B				
MI	TRAVERS CITY	616/946-0002	FX B				
MN	MANKATO	507/625-1684	B212A	120			
MN	MINNEAPOLIS	612/339-5200	B		612/339-0150		
MN	MINNEAPOLIS	612/339-2415	B212A	120	612/338-3782	B/V	120
MN	ROCHESTER	507/282-3741	B212A	120			
MN	ST. PAUL	612/339-5200	B		612/339-0150		
MN	ST. PAUL	612/339-2415	B212A	120	612/338-3782	B/V	120
MO	BRIDGETON	314/731-2304	FX B				
MO	COLUMBIA	314/875-1150	FX B				
MO	FLORISSANT				314/231-8800		
MO	FLORISSANT				314/241-8150	B/V	120
MO	KANSAS CITY	913/677-2833	B		816/474-1600		
MO	KANSAS CITY	913/677-0707	B212A	120	816/421-0375	B/V	120
MO	ST LOUIS	314/421-5110	B		314/231-8800		
MO	ST LOUIS	314/621-4660	B212A	120	314/241-8150	B/V	120
MS	JACKSON	601/944-0860	FX B				
MS	PASCAGOULA	601/769-6502	B				
MS	PASCAGOULA	601/769-6673	B212A	120			
MT	BUTTE	406/494-2998	B212A	120			
NE	OMAHA	402/392-2970	B		402/341-7570		
NE	OMAHA				402/341-7733	B/V	120
NC	CHARLOTTE	704/372-9730	FX B		704/374-0371		
NC	CHARLOTTE	704/372-9738	B212A	120	704/374-0839	B/V	120
NC	DAVIDSON	919/549-0441	B		919/549-8311		
NC	DURHAM	919/549-0441	B		919/549-8311		
NC	GREENSBORO	919/379-0034	FX B				
NC	GREENSBORO	919/275-8231	B212A	120			
NC	RALEIGH/DURHAM	919/549-0441	B		919/549-8311		
NC	RALEIGH/DURHAM	919/832-6592	B212A	120			
NC	RES. TRI. PARK	919/549-0441	B		919/549-8311		
NC	WINSTON-SALEM	919/725-1414	B		919/761-1957		
NC	WINSTON-SALEM	919/725-9252	B212A	120			
NH	MANCHESTER	603/669-0493	FX B				
NH	NASHUA	603/889-8618	FX B				
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				609/983-9650		
NJ	MARLTON				609/983-8351	B/V	120
NJ	MOORESTOWN	609/235-3761	FX B				
NJ	NEWARK	201/483-5937	B		201/623-6818		
NJ	NEWARK	201/483-4878	B212A	120	201/623-0469	B/V	120
NJ	PASSAIC				201/742-0858		
NJ	PATERSON				201/742-0858		

ST	CITY	TYMNET	TYPE	SPEED	TELENET	TYPE	SPEED
NJ	PISCATAWAY	201/981-1900	B				
NJ	PRINCETON	609/452-8970	FX B				
NJ	PRINCETON	609/452-8560	B212A	120			
NJ	TRENTON				609/392-6101		
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	E				
NM	ALBUQUERQUE				505/243-7701		
NM	ALBUQUERQUE	505/842-6036	B212A	120	505/243-4479	B/V	120
NV	CARSON CITY	702/882-7810	B				
NV	CARSON CITY	702/883-6546	B212A	120			
NV	LAS VEGAS	702/386-1899	FX B		702/733-2158		
NV	LAS VEGAS				702/737-6861	B/V	120
NV	RENO	702/882-7810	B				
NV	RENO	702/883-6546	B212A	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	BUFFALO	716/856-1400	E		716/847-0600		
NY	BUFFALO	716/847-0500	B212A	120			
NY	CORNING	607/962-5071	B				
NY	HEMPSTEAD	516/794-3390	FX B		516/292-0320		
NY	HEMPSTEAD				516/481-6012	B/V	120
NY	HUNTINGTON, LI	516/673-5780	FX B				
NY	NEW YORK	212/344-7445	B		212/736-7205		
NY	NEW YORK	212/683-0131	B				
NY	NEW YORK	212/350-9100	B		212/736-0099		
NY	NEW YORK	212/551-9322	B				
NY	NEW YORK	212/344-8211	B212A	120	212/947-9600	B/V	120
NY	NEW YORK	212/532-8101	B212A	120			
NY	NEW YORK	212/689-8910	V3405	120			
NY	NEW YORK	212/344-3392	(30 CPS ONLY)				
NY	NIAGARA FALLS	716/285-6691	FX B				
NY	ROCHESTER	716/248-8000	B		716/454-3430		
NY	ROCHESTER	716/248-8350	B212A	120	716/454-1020	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				315/472-5583	B/V	120
NY	TROY				518/445-9111		
NY	TROY				518/465-8444	B/V	120
NY	WHITE PLAINS	914/694-9361	B		914/682-8777		
NY	WHITE PLAINS	914/694-8960	B212A	120			
OH	AKRON	216/535-1861	B		216/762-9791		
OH	CINCINNATI	513/891-7211	B		513/621-7017		
OH	CINCINNATI	513/984-6064	B212A	120	513/579-0390	B/V	120
OH	CLEVELAND	216/781-7050	B		216/241-0940		
OH	CLEVELAND	216/861-5383	B212A	120	216/696-4225	B/V	120
OH	COLUMBUS	614/421-7270	B		614/463-1400		
OH	COLUMBUS	614/421-1650	B212A	120	614/461-1853	B/V	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				216/762-9791		
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		419/243-8871		
OH	TOLEDO	419/255-2946	B212A	120			
OH	YOUNGSTOWN				216/743-2296		
OH	YOUNGSTOWN	216/744-5326	B212A	120			
OK	BETHANY	405/947-0561	B		405/232-4550		
OK	BETHANY	405/949-0125	B212A	120	405/232-4546	B/V	120
OK	NORMAN	405/947-0561	B		405/232-4550		
OK	NORMAN	405/949-0125	B212A	120	405/232-4546	B/V	120
OK	OKLAHOMA CITY	405/947-0561	B		405/232-4550		
OK	OKLAHOMA CITY	405/949-0125	B212A	120	405/232-4546	B/V	120
OK	TULSA	918/663-2220	B		918/584-3215		
OK	TULSA	918/665-2750	B212A	120	918/584-3247	B/V	120
OR	PORTLAND	503/231-4050	B		503/243-2800		
OR	PORTLAND	503/231-4077	B212A	120	503/243-2815	B/V	120
PA	ALLENTOWN	215/433-6131	FX B		215/435-8268		
PA	ALLENTOWN	215/432-5926	B212A	120			
PA	ERIE	814/453-7161	B				

ST	CITY	TVMNET	TYPE	SPEED	TELENET	TYPE	SPEED
PA	HARRISBURG	717/236-1190	FX B				
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	UPPER DARBY				215/574-0620		
PA	UPPER DARBY				215/574-9462	B/V	120
PA	VALLEY FORGE	215/666-9190	B				
PA	YORK	717/846-4802	FX B				
RI	PROVIDENCE	401/274-5783	FX B		401/272-9290		
RI	PROVIDENCE	401/831-5566	B212A	120	401/751-7912	B/V	120
RI	WARWICK	401/274-5783	FX B		401/272-9290		
RI	WARWICK	401/831-5566	B212A	120	401/751-7912	B/V	120
SC	COLUMBIA	803/252-0840	FX B				
SC	GREENVILLE	803/271-2418	FX B				
TN	CHATTANOOGA	615/756-5856	B				
TN	CHATTANOOGA	615/756-0561	B212A	120			
TN	KNOXVILLE	615/637-3118	FX B				
TN	MEMPHIS	901/529-0170	B		901/525-2563		
TN	MEMPHIS	901/520-0183	B212A	120	901/521-0215	B/V	120
TN	NASHVILLE	615/367-9382	B		615/244-8310		
TN	NASHVILLE				615/244-5099	B/V	120
TN	NASHVILLE	615/361-7566	B212A	120			
TX	AUSTIN	512/444-3280	B		512/926-4360		
TX	AUSTIN	512/443-8191	B212A	120			
TX	AUSTIN	512/444-5800	B212A	120			
TX	BAYTOWN	713/427-5856	FX B				
TX	BEAUMONT	713/832-2589	FX B				
TX	CORPUS CHRISTI	512/882-3641	FX B				
TX	DALLAS	214/638-8888	B		214/748-0127		
TX	DALLAS	214/688-1444	B212A	120	214/651-0192	B/V	120
TX	DALLAS				214/748-6371	V3405	120
TX	EL PASO	915/544-9590	B				
TX	EL PASO	915/532-1936	B212A	120			
TX	FORT WORTH	214/263-4581	FX B		817/336-7791		
TX	FORT WORTH	214/263-0278	B212A	120	817/332-4307	B/V	120
TX	HOUSTON	713/785-4411	B		713/224-3380		
TX	HOUSTON	713/977-4080	B				
TX	HOUSTON	713/780-7390	B				
TX	HOUSTON	713/780-7496	V3405	120			
TX	HOUSTON	713/977-7671	B212A	120	713/225-9359	B/V	120
TX	LACKLAND				512/227-7784		
TX	LACKLAND				512/227-0182	B/V	120
TX	LONGVIEW	214/758-1756	FX B				
TX	LUBBOCK	806/762-0136	FX B				
TX	MIDLAND	915/683-5645	B				
TX	MIDLAND	915/683-9833	B212A	120			
TX	ODESSA	915/563-3745	FX B				
TX	SAN ANTONIO	512/696-4002	B		512/227-7784		
TX	SAN ANTONIO	512/699-9627	B212A	120	512/227-0182	B/V	120
UT	SALT LAKE CITY	801/582-8972	B		801/364-2644		
UT	SALT LAKE CITY	801/582-6060	B212A	120			
VA	CHESAPEAKE				804/625-8291		
VA	NEWPORT NEWS	804/596-5754	FX B				
VA	NORFOLK	804/622-0435	FX B		804/625-8291		
VA	PORTSMOUTH				804/625-8291		
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THE NLM TECHNICAL BULLETIN

JULY 1980

NO. 135

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INDEXING TECHNICAL NOTE NO. 240

DATA BASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
*AVLINE	8,916	THROUGH 1980	11 JUL 80	
*BIOETHICS	9,597	JAN 73-OCT 79	19 APR 80	8004(EM)
*CANCERLIT	206,748	JAN 63-APR 80	22 APR 80	8004(EM)
*CANCERPROJ	16,984	1976-1980	06 APR 80	8004(EM)
*CATLINE	200,258	THROUGH 1980	11 JUL 80	
CHEMLINE	460,406		17 JUL 80	
*CLINPROT	1,669		15 OCT 79	7909(EM)
*EPILEPSY	25,635	1945-PRESENT	16 SEP 79	
*HEALTH	150,898	JAN 75-AUG 80	16 JUL 80	8008(EM)
*HISTLINE	40,655		07 JUL 80	8004(EM)
MEDLINE	534,638	JAN 78-AUG 80	07 JUL 80	8008(EM)
+MED77	253,234	JAN 77-DEC 77	08 DEC 79	
+MED75	642,953	JAN 75-DEC 76	08 DEC 79	
MED72	669,106	JAN 72-DEC 74	08 DEC 79	
MED69	668,258	JAN 69-DEC 71	08 DEC 79	
MED66	501,802	JAN 66-DEC 68	08 DEC 79	
MESH VOC	35,642	1980	07 JUL 80	
*NAME AUTH	111,075		14 JUL 80	
RTECS	40,967	1978 ED.-APR 80	12 JUN 80	
SDILINE	20,685	AUG 80	07 JUL 80	
*SERLINE	34,589	1980	02 MAY 80	
TDB	2,514		22 JAN 80	
TOXLINE	722,846		30 JUN 80	8006(EM)
CBAC	377,701	1974-VOL 31(10,11)		
TOXBIB	140,921	1974-JUN 80		
IPA	39,829	1974-VOL 17(7-8)		
HEEP	80,243	1974-FEB 80		
PESTAB	19,713	1974-JUN 80		
EMIC	27,705	1960-DEC 79		
ETIC	18,206	1950-MAR 79		
RPROJ	17,189	JAN 79-AUG 80		
TOXBACK	379,299		26 FEB 78	
CBAC	167,668	1965-1973		
TOXBIB	127,104	1968-1973		
IPA	19,188	1970-1973		
HEEP	24,680	1971-1973		
HAPAB	12,816	1966-1973		
HAYES	10,043	1940-1966		
TMIC	4,552	1971-1975		
TERA	13,248	1960-1974		

- 1) * = FILES AVAILABLE AT NLM ONLY.
- 2) + = THESE BACKFILES CONTAIN CITATIONS HAVING EITHER A PUBLICATION DATE OR ENTRY DATE FOR THE DATES COVERED.
- 3) MEDLINE BACKFILES AND TOXBACK ARE AVAILABLE ONLY THRU OFFSEARCH AT NLM AND SUNY.

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TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY FOR SPECIAL NOTICES AND MESSAGES

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

- CANCERLIT - Until further notice we recommend that you do not use the Main Heading (MH) field in CANCERLIT. An error in the production input program from the supplier of CANCERLIT data has resulted in incorrect processing of the MeSH headings (MH) field. Be advised that a citation may carry MeSH headings that are not applicable to the journal article. The CANCERLIT file is being regenerated and is expected to be available in July with the May update. The MH field will be removed from all CANCERLIT records during the regeneration for correction and will be reinput as soon as possible.
- COMMANDS,
DOUBLE QUOTE
REQUIRED - Beginning in July 1978, commands could be entered without preceding double quote marks. The following technical note is in response to recently received questions on commands which still require double quote marks.
- Double quote marks are still required for commands at NLM and SUNY when: 1) the command is entered after certain system prompts. Two such prompts are:
- MORE NEWS (Y/N) when printing the news
- REPLY (Y/N) when sending a comment
- 2) "CAPS command at NLM, 3) "TIME command at NLM. There is no "CAPS command availability at SUNY. Also, the "TIME command is not functional at SUNY; you must use the @ sign for time at SUNY via TYMNET; @@ at SUNY via TELENET.
- HISTLINE
(Manual 22.10) - The HISTLINE vocabulary has changed the entry for RHODESIA to ZIMBABWE RHODESIA. All citations will be maintained to reflect the new form of the entry, therefore use ZIMBABWE RHODESIA to search in HISTLINE. Please annotate the NLM Online Services Reference Manual, Section 22.10 as follows:
- (1) Change RHODESIA to RHODESIA use ZIMBABWE RHODESIA
- (2) Add ZIMBABWE RHODESIA
- EXPLAINS
(Manual 4.9.6) - The EXPLAIN command, when followed by a term, results in an explanation of the term. A list of the items that may be

explained is included in the Manual as part of Section 4.9.6. In June 1980 the following additional commands were made explainable:

PROFILE (or PROF or UUSF)

SAVESEARCH (provides explanations for both
SAVESEARCH and SAVE)

DISPLAY (or DISP)

The following data bases have had their descriptions revised:

CLINPROT, SERLINE, AVLINE, CHEMLINE, CANCERLIT, CATLINE

- AUTHOR
DELETED FROM
STOPWORD LIST
(Manual 4.14)
- Effective mid-May, the word AUTHOR is searchable as a text word; it is no longer on the ELHILL free text stopword list. All files updated since that time have postings for Author (TW). In anticipation of this change, it was not included as a term in the stopword list in Section 4.14 of the Manual issued in January 1980.
- OFFSEARCH
(Manual 5.3)
- The SSNOS-OVRIDES? prompt in OFFSEARCH now has a slash, i.e., SSNOS/OVRIDES?, in place of the hyphen. This change makes the system prompt the same as the prespecification keyword used in overriding.
- "CAPS
(Manual 4.9.1)
- The "CAPS command can be cancelled only by logging off the NLM computer. It is not a true ELHILL command (as evidenced by the necessity for the preceding double quote mark), but rather is an operating system command. Since the RESTART command keeps you within ELHILL, it does not cancel the "CAPS command, which operates from the Communications Control Unit that is outside the ELHILL program.
- NAME OF
SUBSTANCE (NM)
AND
REGISTRY
NUMBER (RN)

MEDLINE
(Manual
7.3.24 and
4.13)
- The Name of Substance (NM) data element in MEDLINE and SDILINE is searchable beginning with the August 1980 update. This data element is not one of the directly searchable fields that is automatically retrieved as an unqualified search term; therefore, it must be qualified by (NM). The CAS Registry Number (RN) data element for these two files is also searchable with the August 1980 update. However, qualification of a registry number is not necessary because the RN field is one of the directly searchable fields automatically searched by the computer if entered unqualified. Reminder: The RN and NM data entered with the June and July 1980 updates are still in MEDLINE but are only STRINGSEARCH-able and printable (not directly searchable). This data will become directly searchable with the January 1981 MEDLINE file regeneration.

- HEALTH
(Manual
23.4)
- Beginning with the June 1980 update, the HEALTH PLANNING & ADMINISTRATION file also contains NM and RN data. It is now printable and STRINGSEARCHable only.
- CHEMLINE
(Manual
13.3.17)
- Reminder: FDA-NDA was removed from the list of CHEMLINE Locator (LO) values when the file was regenerated in May.
- SPECIAL LIST
- A technical note appearing in the March 1980 issue of the Technical Bulletin stated that the Special List Indicator (LI) field may now have multiple values in the HEALTH PLANNING & ADMINISTRATION file and in SERLINE. However, this is no longer true. Non-Index Medicus journals being indexed for both the HEALTH and POPLINE files will contain only the (LI) H tag. Non-Index Medicus journals being indexed exclusively for POPLINE will be the only records containing the (LI) P tag, and the tag will appear only in SERLINE; it will not appear in POPLINE. To retrieve all journal titles which may appear in POPLINE, the AI field in SERLINE must be searched for the value POP.
- TELENET
INTERFACE
- NLM will be testing a new version of TELENET interface software on the NLM computer beginning July 18. The test will be operational for one week and if the software is reliable the new version will continue to be operational. Please report any problems with TELENET access to MEDLARS Management Section as soon as possible so that problems with the new interface can be identified and corrected.

Special considerations:

1. Users who dial direct using 657-1896 with 110 bps, 300 bps or 1200 bps (Bell 212A's) will have to type P (CR) first (this identifies the speed of transmission).
2. Users with Hewlett Packard terminals and other users with terminals using "X-on, X-off" will not have to enter "Enable Tflow" when using TELENET.
3. The line length can be up to 132 characters. You will not have to tell TELENET about your line length as in the past.

NLM ACCESS FOR "SUNY-ONLY" USERS

Joseph Leiter, Ph.D., Associate Director for Library Operations, NLM

Since the moratorium was lifted March 28, 1980, all new users have had access to the SUNY computer only, restricting their use to those data bases housed at SUNY. The NLM computer capacity will be significantly enhanced when the IBM 370/168 MP is installed; therefore, on August 1, 1980, those "SUNY-only" users plus all future new users will have access to the NLM computer for those data bases which are not at SUNY. These include: CATLINE, AVLINE, NAME AUTHORITY, SERLINE, CANCERLIT, CANCERPROJ, CLINPROT, EPILEPSY, BIOETHICS, HISTLINE, and HEALTH PLANNING & ADMINISTRATION. Access will also be provided to the SDILINE data base, although it is available at SUNY, so that users may store searches for the Automatic SDI program, which is only available at NLM. In addition, "SUNY-only" users will be given access to MEDLEARN at NLM (see Manual, Part 20). These users will continue to use the other data bases (MEDLINE and its backfiles, TOXLINE/TOXBACK, CHEMLINE, RTECS, TDB and MESH VOCABULARY) at SUNY only; their codes will not allow access to these data bases at NLM.

We hope that this added access will provide better service to our new users without further straining the NLM computer resources. All users are encouraged to use the SUNY computer whenever possible to equalize the system loads. We appreciate your continued cooperation in this effort.

AVLINE UPDATE

Alice Jacobs, Technical Services Division, NLM

STATUS REPORT

With the addition of 680 titles thus far in 1980, AVLINE contains 8865 items. Citations to educational items (Category A) compose 79.5% of the data base. Citations to lecture material (Category B) compose 20.5%. Review results, including audience levels, specialties, and critical summaries, have been added to 560 citations since January.

NEW FEATURES - NATIONAL LIBRARY OF MEDICINE AUDIOVISUALS CATALOG

Several fields have been added to the printed citation format of the National Library of Medicine Audiovisuals Catalog. For those items which contain such information, the LC Card Number, International Standard Book Number, International Standard Serial Number, and Indexing and Abstracting tag will appear in the citation in the same format as for citations in the NLM Current Catalog.

An example is provided below:

NLM AUDIOVISUALS CATALOG
SERIALS - NAME AND TITLE SECTION

International
Standard Book
Number



Diseases of the anus, rectum and colon. [Slide] / Marvin L. Corman ... [et al.]. -- [New York] : Medcom, c1976. 202 slides : col. ; 2x2 in. & 4 cassettes (2-track. mono. ca. 30 min. each) and 2 guides. -- (Medcom famous teachings in modern medicine) Sound accompaniment compatible for manual and automatic operation. Each part available separately. Audience level: --"Medical: graduate. --Specialty: gastroenterology, radiology. Rating: Recommended. Review date: May 1980. Reviewer: Association of American Medical Colleges (AAMC). Learning method: Support. Approved for credit toward the AMA's Physician's Recognition Award. CONTENTS: pt. 1. Neoplasms.--pt. 2. Nonspecific inflammatory bowel disease.
I. Intestinal Diseases - slides I. Corman, Marvin L., 1939- II. Series: Medcom famous teachings in modern medicine. [Slide]
ISBN 0-8463-1128-3 LC: 75-735765
04NLM: WI 400 SC no.2 1976

← LC Card Number

Abstract
(Critical) This program, part of a series of famous teachings in modern medicine, correlates x-ray, gross appearance, and histopathology of benign and malignant tumors of the anus, rectum and colon, and of non-specific inflammatory lesions emphasizing the more common disorders. This includes for example hemorrhoids, anal papillae, colitis cystica, squamous cell and adenocarcinoma, and ulcerative and crohn's colitis. Current concepts of pathogenesis of these lesions and their management are discussed. A surgical bias in the diagnosis and management is evident and a more balanced consideration for recently developed nonoperative techniques is needed. This useful review of neoplastic colonic lesions displays good clinical and histopathologic correlation and is of excellent technical quality. It is recommended for use.
Price:
Sale: 210.00 (nos. 2160 & 2839)
Source:
Medcom, inc. Cit. No. 8000440A

DOUBLE FORM SUBHEADING FORMAT

In response to suggestions from network users, NLM is planning to reverse the structure of audiovisual double form subheadings so that the bibliographic form will appear first, followed by the audiovisual form (e.g., abstracts - audiocassettes, rather than audiocassettes - abstracts).

For users who are integrating audiovisual titles into their subject card catalogs, it is preferable to have the bibliographic form subheading file first and the subheading for the audiovisual medium file last so that audiovisual titles will file in proximity to print material with the same bibliographic form subheading.

For all currently established subheadings, this format change will occur with the implementation of the 1981 MeSH in January, 1981 and all audiovisual double form subheadings in AVLINE and CATLINE will be changed at that time. However, from July 1, 1980 on, any additional double form subheadings needed for audiovisual cataloging will be established using the revised structure.

Searching is not affected since double form subheadings are retrieved using the Boolean AND as in this example:

ABSTRACTS (SH) AND AUDIOCASSETTES (SH)

The NLM Cataloging Section would appreciate hearing from any users who wish to comment on this planned change. Comments may be addressed to:

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

NLM ONLINE USERS' MEETING
June 16, 1980
Washington, D.C.

Following are the questions asked at the NLM Online Users' Meeting and the NLM responses.

1. Q. If NLM increases its computer capacity in the future to allow access again by new users, would this mean that there would be no possibility of having the HEALTH PLANNING & ADMINISTRATION and the CANCERLINE data bases at SUNY?
 - A. NLM plans to provide access to those files unique to NLM to users with access to SUNY only in the near future. In addition, access to SDILINE at NLM will be provided to these users so that they may take advantage of the automatic SDI program available only at NLM.
2. Q. Are there any plans at present to increase 1200 baud (120 characters per second) access at NLM?
 - A. Yes, NLM expects the number of both TELENET and TYMNET 1200 baud lines to increase by Fall 1980.
3. Q. Under MEDLARS III will next day online printing of MEDLINE backfiles retrieval be available?
 - A. NLM is looking into this capability now and the prospect for completion may allow implementation sooner than MEDLARS III. Additionally, NLM is investigating putting up part of the backfiles online in which case online retrieval and offline prints would be available.
4. Q. Are there any plans for regional Advanced Training courses by NLM representatives?
 - A. This year, eight Initial and Advanced training classes were scheduled by NLM in various regions. In addition, UCLA scheduled four classes at

UCLA for NLM. However, NLM has suffered a training staff reduction from 4 to 1.5 instructors. Because of this and the government-wide hiring freeze, fewer classes will probably be conducted by NLM in the field next year. NLM encourages participation by regional personnel in training activities.

5. Q. Are there any plans to make arrangements with various library schools to become MEDLINE training centers?
A. Not at the present time but NLM is looking into various ways to provide training in addition to the NLM classes.
6. Q. What plans are there to make the NLM Automatic SDI service available for data bases other than SDILINE, TOXLINE and CANCERLIT, e.g., CATLINE and HEALTH PLANNING & ADMINISTRATION?
A. We expect CATLINE and HEALTH PLANNING & ADMINISTRATION to be available by fall for the monthly automatic SDI service.
7. Q. Can NLM give consideration to making PRINT COMPRESSED the default print option?
A. Yes. It may be necessary to limit this print default to certain data bases because of data base structure or opposition from the data base producers.
8. Q. Are there any results available yet on the study "Evaluation of the Online Search Process" conducted by Cuadra Associates?
A. NLM is currently evaluating the study. One observation is that on-the-job training can provide an effective search capability. After one year of experience, the difference between on-the-job and formal training tended to converge.
9. Q. Will the National Institute of Mental Health data base be made available on the NLM system?
A. NLM does not plan to offer this data base. In general, if non-NLM data bases are available through other adequate services NLM will not also mount them.
10. Q. Can we have the capability, perhaps through the PROFILE command, to make PRINT option defaults specific to our own USERID?
A. NLM will investigate this.
11. Q. Does NLM anticipate building a separate data base on nursing?
A. No. To retrieve nursing material from MEDLINE users could store the nursing terms, plus the IM nursing journal titles, plus Special List N in STORESEARCH for easier retrieval. If the concern is coverage of journals, please submit candidate titles for indexing to NLM for consideration.

12. Q. Can the index to the Online Services Reference Manual be improved or enhanced?
- A. NLM is investigating this now and has set up a group to look into this. Carole Stock (Online Coordinator, Health Sciences Library, University of Washington, Seattle, Washington 98195) has agreed to coordinate this effort. Please send suggestions directly to Ms. Stock.
13. Q. When limiting a MEDLINE search to those citations from Special List N (Nursing) do I have to add N (LI) to each search statement or is there some way to only add N (LI) once in one complete search?
- A. The correct method is to complete your entire search strategy, combine all concepts using AND or OR and use your last search statement number as follows:
- ```

PROG:
SS (12) PSTG (102)

SS 13 /C?
USER:
12 AND N (LI)

```
14. Q. What plans, if any, are there to expand MEDLEARN, i.e., complete Track B or add additional advanced information?
- A. The capabilities of the present MEDLEARN software have been exhausted. A new software package is needed, and this will involve substantial development in order to "mimic" the ELHILL search capabilities through computer-assisted instruction. NLM will pursue the matter.
15. Q. Are there any plans for updating the psychiatric terminology in MeSH which is getting very out-of-date?
- A. Based on terminology used in the Diagnostic and Statistical Manual of Mental Disorders 3rd edition (DSM III), 1980, of the American Psychiatric Association, there will be quite a few changes implemented in the 1981 MeSH. All changes from current MeSH terminology will be cross-referenced. These terminology changes will also have a major impact on the NLM Classification scheme since it is coordinated with MeSH.
16. Q. What happened to the proposed capability in OFFSEARCH to specify the files ALL BACK when you want to search all the MEDLINE backfiles instead of having to list each backfile individually?
- A. This capability was investigated but is not feasible in our current system.
17. Q. Can we get the old hedges printed in the Technical Bulletin for our own use?
- A. These would require extensive revision before being printed. NLM will investigate the possibility of revising them and possibly including them in the Technical Bulletin.

18. Q. Can the PRINT CC (PRINT CATCARD) capability be made available for off-line prints and offsearches of the CATLINE and AVLINE data bases?
- A. NLM is working on this.
19. Q. Does NLM plan to expand coverage of patient or consumer education materials?
- A. No, NLM does not plan to cover these materials.
20. Q. What is the status of the POPLINE data base?
- A. NLM expects the data base to be made available to the network before the end of summer. A test file is operational now, but is not available to the network.
21. Q. Is NLM planning to add any more PRE-EXPLOSIONS to the system?
- A. Please submit your suggestings in writing for consideration. Keep in mind that the PRE-EXPLOSIONS are designed to overcome some of the limitations of the EXPLODE capability, and therefore, candidate categories should be large explosions (i.e., have many time overflows and be used on a recurring basis).
22. Q. Now that the PROFILE COMMAND is available, is it necessary to keep the message "A STORED ADDRESS IS IN EFFECT FOR YOUR CODE" in the system?
- A. No, it is not necessary to retain this message and we will investigate deleting it. However, just because the stored address is housed in the UUSF (Unified User Specifications File) does not mean that all searchers using one code will remember that a stored address exists for that code. The above mentioned message serves as a reminder.
23. Q. In 1976 you added the MeSH term HEAD AND NECK NEOPLASMS, however, specific neoplasms of the head and neck were never grouped under this term in the Tree Structures to allow for EXPLODING this term to retrieve on all head and neck neoplasms. Why wasn't this done and can it be done?
- A. It was not done originally because from the viewpoint of the indexer and most users, HEAD AND NECK NEOPLASMS is a general term to cover the soft tissue in the region of the head and neck, and the specific terms do not belong there.
24. Q. Is the HEALTH PLANNING & ADMINISTRATION data base complete in scope yet, i.e., are all the expected sources of citations contributing their data?
- A. No, not yet. The contribution from the Health Resources Administration has not been received.
25. Q. Are there any plans to reduce the size of the printouts at SUNY?
- A. No, SUNY does not have the type of printer required to produce the smaller printouts.

26. Q. Can a ranging capability be added to the NEWS command to allow a searcher to ask for online NEWS items only from a certain range of dates?
- A. NLM will investigate such a ranging capability.
27. Q. Is there any way to request online that NLM begin processing Automatic SDI's for our institution from STORESEARCHES without having to complete the Automatic SDI Request Form and send it to NLM?
- A. There is no way to do this online at present because NLM needs to know:
- a. your mailing address, i.e., the Automatic SDI program does not communicate with the UUSF (Unified User Specification File) where your address may be stored; also, some users do not have a stored address.
  - b. which of the 2,000 active codes have searches stored that the user wants processed automatically
  - c. administrative information such as the date you want searches to start
28. Q. Would it be possible to include in the Annotated Alphabetic MeSH definitions of new MeSH terms?
- A. No, it is not possible for the 1981 Annotated Alphabetic MeSH. However, the scope notes are in the online MeSH VOCABULARY file, and the suggestion will be considered for 1982.
29. Q. Can the BREAK key or a BREAK command be made operational in the MEDLARS system with access through TELENET or TYMNET?
- A. There is always a small element of risk, but users may use the BREAK key at NLM through TYMNET and TELENET. It may be used only while the system is printing out; it may not be used during input or between inputs. The network must finish printing whatever characters have already been transmitted to the user before the break actually takes place. Therefore, hit the BREAK key only once and wait for the completion of the printing and the next USER: cue before inputting. A new version of the TELENET interface with NLM will be tested shortly which will hopefully improve this capability at NLM. The BREAK key capability is being investigated at SUNY. NOTE: The BREAK key capability does not work with Delta Data terminals.

\*\*\*\*\*



MONTHLY HINT: USING A SAVED SEARCH ONLINE

While using a saved search online, users have reported some unexpected results that can be explained by clarifying the way the system looks at a saved search.

When you execute a saved search online:

```
SS 10 /C?
USER:
ANIMAL TERMS (SN)

PROG:
SS (10) PSTG (35496)
```

the system processes the entire formulation in one search statement. No step-by-step results are available for each component of the search formulation.

Every item you want to use for retrieving results must be referred to in some way in the last search statement of the saved formulation, as in the following example:

```
STS SS 1 /C?
USER:
DOGS OR CATS OR HAMSTERS OR GERBILS OR GUINEA PIGS

PROG:
STS SS 2 /C?
USER:
CATTLE OR SHEEP OR HORSES

PROG:
STS SS 3 /C?
USER:
1 OR 2
```

If you did not pull together your formulation in the last search statement or if you received a No Postings message after typing FINISHED:

```
STS SS 4 /C?
USER:
FINIHSDE
```

```
PROG:
NP (FINIHSDE)
```

```
STS SS 5 /C?
USER:
FINISHED
```

(Note that the system has saved SS 4 and is requesting SS 5)

the system reads only your last search statement and the retrieval (or lack thereof) for this saved search will not be what you wanted.

In addition, the fact that a saved search is processed online as one term--the name, qualified by (SN)--means that the generated term limitation for search terms (no more than 450 possible terms for one truncated or exploded term) applies to the entire formulation. For example, if the formulation contained two very large truncations, e.g., CAT: (with 327 possibilities in MEDLINE) and RAT: (with 305 possibilities in MEDLINE), each individual term would be acceptable to the system while you were entering the saved search formulation. However, when attempting to execute the search online:

```
SS 1 /C?
USER:
CATRAT (SN)
```

```
PROG:
GENTRM OVFLW
```

you would receive this message, because that one term CATRAT (SN) produced 632 possibilities, exceeding the limit. To avoid this problem it is helpful to narrow the possibilities as much as possible by using the single variable character symbol (#) instead of truncation. If this search had been intended to retrieve CAT or CATS or RAT or RATS, then the two terms could have been entered as CAT# OR RAT#, for which there are many fewer possible words. As an added benefit, this narrowing can prevent many false drops, e.g., CATALOG, CATATONIC, CATALEPSY, etc.

\*\*\*\*\*

NEW SERIALS ANNOUNCEMENT - JUNE 1980  
 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.

CURRENT HISTOPATHOLOGY  
 1,1980--  
 J.B. LIPPINCOTT COMPANY  
 CALLED ALSO: CURRENT HISTOPATHOLOGY SERIES.  
 PHILADELPHIA UNITED STATES  
 IN PROCESS  
 C55730000

CURRENT TRENDS IN HISTOCOMPATIBILITY  
 1,1980 --  
 PLENUM PRESS  
 CATALOGING IN PUBLICATION  
 NEW YORK UNITED STATES  
 ON ORDER - CIP  
 C58079000

EXCERPTA MEDICA. SECTION 4. MICROBIOLOGY  
 37N1, 1980--  
 EXCERPTA MEDICA  
 CONTINUES EXCERPTA MEDICA. SECTION 4.  
 MICROBIOLOGY BACTERIOLOGY, MYCOLOGY,  
 PARASITOLOGY.  
 AMSTERDAM NETHERLANDS  
 IN PROCESS  
 E18021000

FRENCH-LANGUAGE PSYCHOLOGY  
 1,1980--  
 NORTH-HOLLAND PUBLISHING COMPANY  
 AMSTERDAM NETHERLANDS  
 IN PROCESS  
 F13850000

FRONTIERS IN AGING SERIES  
 1,1980--  
 HUMAN SCIENCES PRESS  
 NEW YORK UNITED STATES  
 HUMAN SCIENCE PRESS, 72 FIFTH AVENUE, NEW  
 YORK, N.Y. 10011  
 IN PROCESS  
 F14190000

GROUP HEALTH JOURNAL  
 FEB, 1980--  
 GROUP HEALTH ASSOCIATION OF AMERICA  
 WASHINGTON UNITED STATES  
 ON ORDER  
 G11970000  
 \$25.00

HAZARDOUS AND TOXIC SUBSTANCES  
 1,1970--  
 MARCEL DEKKER  
 NEW YORK UNITED STATES  
 IN PROCESS  
 H03205500

HORMONES, DRUGS AND AGGRESSION  
 3,1979--  
 EDEN MEDICAL RESEARCH  
 CONTINUES HORMONES AND AGGRESSION.  
 ST. ALBANS VT UNITED STATES  
 IN PROCESS  
 H17230000

INTERNATIONAL JOURNAL OF MEDICINE AND LAW  
 1980?--  
 HUMAN SCIENCE PRESS  
 NEW YORK UNITED STATES  
 HUMAN SCIENCE PRESS, 72 FIFTH AVENUE, NEW  
 YORK, N.Y. 10011  
 ON ORDER  
 I27270000  
 \$45.00

JCCA. JOURNAL OF CANADIAN CHIROPRACTIC  
 ASSOCIATION  
 22N,MAR 1978--  
 CANADIAN CHIROPRACTIC ASSOCIATION  
 CONTINUES JOURNAL OF THE CANADIAN  
 CHIROPRACTIC ASSOCIATION.  
 TORONTO CANADA  
 IN PROCESS  
 J06881000

JOURNAL OF CARDIAC REHABILITATION  
 JAN,1980--  
 HOUGHTON MIFFLIN PROFESSIONAL PUBLISHER  
 BOSTON UNITED STATES  
 ON ORDER  
 J15330000  
 \$50.00

JOURNAL OF HOSPITAL INFECTION  
 11N1,MAR 1980--  
 ACADEMIC PRESS  
 LONDON ENGLAND  
 IN PROCESS  
 J23250000

JOURNAL OF THE IAPM  
 JAN, 1980--  
 INTERNATIONAL ACADEMY OF PREVENTIVE MEDICINE  
 HOUSTON UNITED STATES  
 ON ORDER  
 J23630000  
 \$90.00

JOURNAL OF IMMUNOASSAY  
 1,1980--  
 MARCEL DEKKER  
 NEW YORK UNITED STATES  
 IN PROCESS  
 J23690000

|                                                                                                                                                                                                    |                      |                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>JOURNAL OF INTERFERON RESEARCH<br/>1980--<br/>MARY ANN LICBERT<br/>NEW YORK<br/>ON ORDER<br/>J24475000</p>                                                                                      | <p>UNITED STATES</p> | <p>PROGRESS IN MEDICAL ULTRASOUND REVIEWS AND<br/>COMMENTS<br/>1,1980--<br/>EXCERPTA MEDICA<br/>AMSTERDAM<br/>NETHERLANDS<br/>EXCERPTA MEDICA, 305 KEIZERSGRACHT, 1000 BC<br/>AMSTERDAM, P.O.BOX 1126<br/>IN PROCESS<br/>F48090000</p>                 |
| <p>JOURNAL OF SOVIET CARDIOVASCULAR RESEARCH<br/>1,1980--<br/>PLENUM PUBLISHING<br/>NEW YORK<br/>ON ORDER<br/>J39307000</p>                                                                        | <p>UNITED STATES</p> | <p>PROGRESS IN SURGICAL PATHOLOGY<br/>1,1980--<br/>HASSON PUBLISHING<br/>NEW YORK<br/>UNITED STATES<br/>HASSON PUBLISHING, 14 EAST 60TH STREET, NEW<br/>YORK, N.Y. 10022<br/>ON ORDER<br/>F49990000<br/>\$45.00</p>                                    |
| <p>JOURNAL OF SOVIET ONCOLOGY<br/>1,1980--<br/>PLENUM PRESS<br/>NEW YORK<br/>ON ORDER<br/>J39390000</p>                                                                                            | <p>UNITED STATES</p> | <p>PULMONARY DISEASE REVIEWS<br/>1980--<br/>FILEY<br/>CATALOGING IN PUBLICATION.<br/>NEW YORK<br/>UNITED STATES<br/>ON ORDER - CIP<br/>F40610000</p>                                                                                                   |
| <p>III JOURNAL D UROLOGIE<br/>86,1980--<br/>MASSEON<br/>CONTINUES JOURNAL D UROLOGIE ET DE<br/>NEPHROLOGIE.<br/>PARIS<br/>IN PROCESS<br/>J41070000</p>                                             | <p>FRANCE</p>        | <p>SCHOOL PSYCHOLOGY INTERNATIONAL<br/>1980?--<br/>SCHOOL PSYCHOLOGY PUBLISHING CO<br/>UNITED STATES<br/>ON ORDER<br/>S05879000</p>                                                                                                                    |
| <p>LYMPHOKINE REPORTS<br/>1,1980--<br/>ACADEMIC PRESS<br/>NEW YORK<br/>IN PROCESS<br/>L13810000</p>                                                                                                | <p>UNITED STATES</p> | <p>SECOND CASE OPINIONS ON HEALTH CARE ISSUES<br/>1, APRIL 1980--<br/>THOMPSON MOHR ASSOCIATES<br/>OAK BROOK IL<br/>UNITED STATES<br/>ON ORDER<br/>S15630000<br/>\$35.00</p>                                                                           |
| <p>MONOGRAPHS IN PEDIATRIC HEMATOLOGY/ONCOLOGY<br/>1,1980--<br/>HASSON<br/>NEW YORK<br/>UNITED STATES<br/>HASSON PUBLISHING, 14 E. 60 ST., NEW YORK,<br/>N.Y. 10022<br/>ON ORDER<br/>M46930000</p> | <p>UNITED STATES</p> | <p>SOUTHEAST ASIAN JOURNAL OF SURGERY<br/>1, JULY 1978--<br/>ASSOCIATION OF SURGEONS OF SOUTHEAST ASIA<br/>HONG KONG<br/>HONG KONG<br/>DR. W.J. ORAM, ROOM 1007, GAMMON HOUSE, 12<br/>HARCOURT RD, CENTRAL, HONG KONG<br/>IN PROCESS<br/>S32410000</p> |
| <p>NATIONAL CONFERENCE ON ANTIBIOTIC REVIEW<br/>1ST, 1979--<br/>NATIONAL CONFERENCE ON ANTIBIOTIC REVIEW<br/>CHICAGO<br/>ON ORDER<br/>H02710000</p>                                                | <p>UNITED STATES</p> | <p>TOPICS IN HEALTH RECORD MANAGEMENT<br/>1, SEP 1980--<br/>ASPLH SYSTEM CORPORATION<br/>GERMANTOWN MD<br/>UNITED STATES<br/>ON ORDER<br/>F13170000</p>                                                                                                |
| <p>PEDIATRICS<br/>1,1980--<br/>MARCEL DEKKER<br/>CATALOGING IN PUBLICATION.<br/>NEW YORK<br/>ON ORDER - CIP<br/>F06610000</p>                                                                      | <p>UNITED STATES</p> | <p>WASHINGTON RADIOLOGY REPORT<br/>1, APRIL 1980--<br/>CAPITOL PUBLISHING COMPANY<br/>WASHINGTON<br/>UNITED STATES<br/>ON ORDER<br/>H00035000<br/>\$35.00</p>                                                                                          |
| <p>POPULATION AND ENVIRONMENT<br/>3, SPRING 1980--<br/>HUMAN SCIENCES PRESS<br/>CONTINUES JOURNAL OF POPULATION.<br/>NEW YORK<br/>IN PROCESS<br/>F19126000</p>                                     | <p>UNITED STATES</p> |                                                                                                                                                                                                                                                        |

# THE NLM TECHNICAL BULLETIN

AUGUST 1980

NO. 136

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| DATA BASE   | TOTAL RECORDS | DATES COVERED     | DATE LAST UPDATED | LATEST UPDATE TAG |
|-------------|---------------|-------------------|-------------------|-------------------|
| *AVLINE     | 9,048         | THROUGH 1980      | 08 AUG 80         |                   |
| *BIOETHICS  | 10,192        | JAN 73-DEC 79     | 05 AUG 80         | 8008(EM)          |
| *CANCERLIT  | 219,728       | JAN 63-JUL 80     | 12 AUG 80         | 8006(EM)          |
|             |               |                   | 12 AUG 80         | 8007(EM)          |
| *CANCERPROJ | 17,467        | 1976-1980         | 21 JUL 80         | 8007(EM)          |
| *CATLINE    | 201,102       | THROUGH 1980      | 08 AUG 80         |                   |
| CHEMLINE    | 460,406       |                   | 17 JUL 80         |                   |
| *CLINPROT   | 1,669         |                   | 15 OCT 79         | 7909(EM)          |
| *EPILEPSY   | 25,635        | 1945-PRESENT      | 16 SEP 79         |                   |
| *HEALTH     | 153,460       | JAN 75-SEP 80     | 11 AUG 80         | 8009(EM)          |
| *HISTLINE   | 40,655        |                   | 07 JUL 80         | 8004(EM)          |
| MEDLINE     | 556,519       | JAN 78-SEP 80     | 04 AUG 80         | 8009(EM)          |
| +MED77      | 253,234       | JAN 77-DEC 77     | 08 DEC 79         |                   |
| +MED75      | 642,953       | JAN 75-DEC 76     | 08 DEC 79         |                   |
| MED72       | 669,106       | JAN 72-DEC 74     | 08 DEC 79         |                   |
| MED69       | 668,258       | JAN 69-DEC 71     | 08 DEC 79         |                   |
| MED66       | 501,802       | JAN 66-DEC 68     | 08 DEC 79         |                   |
| MESH VOC    | 36,079        | 1980              | 04 AUG 80         |                   |
| *NAME AUTH  | 111,619       |                   | 11 AUG 80         |                   |
| RTECS       | 40,967        | 1978 ED.-APR 80   | 12 JUN 80         |                   |
| SDILINE     | 21,999        | SEP 80            | 04 AUG 80         |                   |
| *SERLINE    | 35,075        | 1980              | 28 JUL 80         |                   |
| TDB         | 2,517         |                   | 04 AUG 80         |                   |
| TOXLINE     | 742,708       |                   | 28 JUL 80         | 8007(EM)          |
| CBAC        | 385,748       | 1974-VOL 32(1)    |                   |                   |
| TOXBIB      | 142,677       | 1974-AUG 80       |                   |                   |
| IPA         | 40,392        | 1974-VOL 17(9-10) |                   |                   |
| HEEP        | 88,484        | 1974-SEP 80       |                   |                   |
| PESTAB      | 20,010        | 1974-JUL 80       |                   |                   |
| EMIC        | 27,705        | 1960-DEC 79       |                   |                   |
| ETIC        | 18,206        | 1950-MAR 79       |                   |                   |
| RPROJ       | 18,147        | JAN 79-SEP 80     |                   |                   |
| TOXBACK     | 379,299       |                   | 26 FEB 78         |                   |
| CBAC        | 167,668       | 1965-1973         |                   |                   |
| TOXBIB      | 127,104       | 1968-1973         |                   |                   |
| IPA         | 19,188        | 1970-1973         |                   |                   |
| HEEP        | 24,680        | 1971-1973         |                   |                   |
| HAPAB       | 12,816        | 1966-1973         |                   |                   |
| HAYES       | 10,043        | 1940-1966         |                   |                   |
| TMIC        | 4,552         | 1971-1975         |                   |                   |
| TERA        | 13,248        | 1960-1974         |                   |                   |

- 1) \* = FILES AVAILABLE AT NLM ONLY.
- 2) + = THESE BACKFILES CONTAIN CITATIONS HAVING EITHER A PUBLICATION DATE OR ENTRY DATE FOR THE DATES COVERED.
- 3) MEDLINE BACKFILES AND TOXBACK ARE AVAILABLE ONLY THRU OFFSEARCH AT NLM AND SUNY.

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 National Library of Medicine  
 8600 Rockville Pike  
 Bethesda, Maryland 20209  
 301/496-6193

TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY FOR SPECIAL NOTICES AND MESSAGES

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

SPECIAL  
INITIAL  
TRAINING  
CLASS

- NLM will be holding a special abbreviated three-day no hands-on Initial Training Class on October 15-17, 1980, in Bethesda. This class is for backup searchers, one per institution. Registration is limited to 50 searchers; applications will be processed in the order received. If you would like an application, please call MEDLARS Management Section (301/496-6193).

DATA  
COMMUNICATIONS  
INTERFACE

- During the week of July 18-25, 1980, a new communications interface was tested and is now operational on the NLM computer only. The following are in effect:
  1. The Direct Dial Number 657-1896 now handles 110, 300 or 1200 baud (Bell 212A modems); users must type a P (CR) before entering /LOGIN to identify their speed of transmission.
  2. Users with Hewlett-Packard terminals or other terminals with "X-ON, X-OFF" do not have to enter "Enable Tflow" when using TELENET.
  3. Line length can be up to 132 characters; users on TELENET do not have to identify the line length as in the past.

TDB

- The Toxicology Data Bank (TDB) was updated at NLM on August 4 with the addition of 309 completed compounds. The number of full records is now 1,786, with a total of 2,517 records in the data base. A list of names of all 2,517 TDB records is available on written request from Toxicology Data Bank, Specialized Information Services, National Library of Medicine, Bethesda, Maryland 20209.

FORM &  
GEOGRAPHIC  
QUALIFIERS

- The following qualifiers for cataloging only have been added to the current MeSH file since publication of the 1980 MeSH. You may wish to add them to the appropriate lists in the introduction to your 1980 Annotated Alphabetic MeSH and 1980 Index Medicus MeSH. Other cataloging only qualifiers added to the current MeSH file since publication of the 1980 MeSH appeared in the March 1980 issue of the NLM Technical Bulletin.

FORM QUALIFIERS

1. motion pictures - biography

Under names of classes of persons (or the respective field if no comprehensive heading for classes of persons is available) for collected or individual biography, issued in motion picture format.

2. nursing texts - filmstrips

Under topical headings for material written for nurses, issued in filmstrip format.

3. videocassettes - nomenclature

Under scientific headings for systematically derived names or designations which are formally adopted or sanctioned by usage, issued in videocassette format.

GEOGRAPHIC QUALIFIER

Gilbert and Ellice Islands Colony

TELE-  
COMMUNICATIONS  
NUMBERS

- Beginning with the September 1980 Bulletin, lists of numbers you may use to access the NLM/SUNY computers will be included every three months instead of bi-monthly as in the past with the NLM Technical Bulletin.

HISTLINE  
(Manual 22.1)

- Due to production and scheduling problems, we are unable to update HISTLINE monthly. Beginning in the Fall of 1980, HISTLINE will be updated every three months, as follows: February 1, May 1, August 1, and November 1.

RTECS  
(Manual 14.4.19)

- The Classification Code (CC) data element (formally Class of Compound) value CARCINOGEN-NEOPLASTIGEN has been changed on all RTECS records to the value, TUMORIGEN.

NEW MESH  
TERMS -  
DEFINITIONS

- In the July 1980 Bulletin, Question 28 in the "NLM Online Users Meeting" asked about including definitions of new MeSH terms in the Annotated Alphabetic MeSH. Since Scope notes are in the online MeSH VOCABULARY file and since the New Descriptors list published in the NLM Technical Bulletin each fall includes scope notes, these will not be included in the Annotated MeSH.

CANCERLIT

- The June and July 1980 (8006 and 8007 [EM]) updates will be made to the CANCERLIT file effective August 11, 1980. However, problems in the file, including the Text Word (TW) and MeSH Heading (MH) elements, will not be corrected until a complete regeneration of the file, expected in the Fall 1980. As previously announced in the online NEWS and



Bulletin, CANCERLIT contains erroneous MeSH Heading information; therefore, do not search on the (MH) field. In addition, the new program to separate title text words from abstract text words has resulted in an error. The following shows what is now retrieved using various searching methods:

TERM (TF) - title words only  
TERM (TW) - abstract words only  
TERM (unqualified) - gives multi-meaning message  
online; defaults to "all" in  
OFFSEARCH.

To retrieve both title and abstract words, combine the two qualified terms with the Boolean "OR":

TERM (TF) OR TERM (TW)

CHEMLINE (Manual 13.4.17) - A change has been made in the linkage of Locator values to Registry Numbers in CHEMLINE. File names appended in parentheses to ON values identify those bibliographic files to be searched with that specific Registry Number. File names in the LO field of a record refer specifically to the CAS Registry Number in the RN field. File names in both fields are searchable using the mnemonic LO.

\*\*\*\*\*

#### ABBREVIATED INITIAL ONLINE SERVICES TRAINING COURSE

The National Library of Medicine is again offering a special three-day Initial Online Services Training Course for backup searchers. This course will include all the lectures, discussions, and demonstrations of the standard Initial Training curriculum, plus an overview of some additional data bases not usually included in the course. There will be no hands-on terminal exercises.

The class will be held October 15-17, 1980 in the Interlocking Conference rooms on the first floor of the new Lister Hill Center for Biomedical Communications. Application forms may be obtained by calling or writing MEDLARS Management Section. Registration is limited to 50 individuals, one per institution. All applications will be processed in order of receipt.

\*\*\*\*\*

TOXLINE REGENERATION

Robert J. Schultheisz and George F. Hazard, Jr.  
Specialized Information Services, NLM

A regenerated TOXLINE is expected to be available by late September. Because of the large number of records in the TOXLINE/TOXBACK files, many duplicate citations will be removed, and the remaining citations will be redistributed among three files. There will be two offline files, TOXBACK65 (pre65-73) and TOXBACK74 (74-76), and one online file, TOXLINE (77-present, except for EMIC, 1960-present, and ETIC, 1950-present). In addition to this restructuring, several changes will be made in the data content and indexing to allow more consistent, flexible searching. These modifications are explained below.

CAS Registry Number (RN) Registry Numbers will be added to citations in the 1975-1978 IPA subfile and the 1974-1978 PESTAB subfile. These Registry Numbers were assigned by Chemical Abstracts Service (CAS) for those chemical names cited in the subject indices to the appropriate secondary publication.

CODEN (CD) The Journal Title Code data in TOXBIB will be converted to a standard ASTM CODEN using NLM's SERLINE file as the authority. Journal Title Codes for which there is no match will not be changed.

LANGUAGE (LA) Language data, if present, in the online TOXLINE file, will be converted to one of 42 standard Library of Congress MARC format three-character language abbreviations. Most non-English languages will convert successfully to the MARC format; however, the searcher must remember that most subfiles have not had the value ENG in the language field and this will not be added. Multiple language designations, e.g., FRENCH/ENGLISH, GERMAN/ENGLISH, will not be converted. The backfiles will not be standardized during this regeneration.

DATA TAG (DTG) The abbreviated version of these tags will be eliminated, and the complete version retained. Thus "BLOOD CONCENTRATIONS" will be kept while its abbreviation "BC" will be eliminated. The data tags, which are described in the Online Services Reference Manual, are listed below:

BLOOD CONCENTRATIONS  
CHRONIC TOXIC DOSE  
HEMATOLOGY  
LETHAL CONCENTRATIONS  
LETHAL DOSAGE  
MAXIMUM PERMISSIBLE LIMIT (spelled as shown)  
TERATOGENIC DOSE  
THRESHOLD LIMIT VALUE  
URINE CONCENTRATION

INDEXING TAG (ITG) This field will be eliminated.

KEYWORD (KW) The old searchable-only KW field has been eliminated. The old print-only KW has now been made searchable as well as printable. This field exists in four of the subfiles: TOXBIB, IPA, EMIC and ETIC. It consists of index terms assigned to the citations by indexers. The KW field will be searchable up to 36 characters and may include multi-word terms.

The KW field will also be extracted, together with terms from the Title and Abstract fields to create uniterms for the searchable Text:Word (TW) field. Thus, a user will be able to search for an entire MeSH term as a KW and also search for the uniterms as TW. When searching for a KW, the user must qualify the term with (KW). Any term input without a qualifier will be searched in every other searchable field in TOXLINE; KW will not be searched.

SUBFILE CHANGES The HAYES file will now carry a subfile indicator in the abstract and may be selected as a subfile by the input of HAYES (TW). HAYES (TW) will also retrieve a few false drops due to the word HAYES occurring in the titles or abstracts of citations from other subfiles.

The TERA subfile has been eliminated. These documents will be incorporated into the ETIC subfile in TOXLINE in the future.

### IMPLICATIONS FOR SEARCHING

1. Duplicate citations - A series of computer programs are being used to identify and eliminate some duplicate citations from the TOXLINE/TOXBACK files. This will reduce the number of retrieved duplicate citations scattered throughout the user's online and offline prints. However, all duplicates will not be eliminated: when the duplicate identification is questionable, these records will not be deleted; no records from EMIC and ETIC will be deleted from TOXLINE (including pre-74 material); and, TOXBIB duplicates will be retained in TOXBACK74 and TOXLINE. In this latter case, the TOXBIB abstract, if present, will be removed from the duplicate record. However, all other fields, including the Keyword field which contains the MeSH terms, will be retained.
2. The user should realize that the three new TOXLINE/TOXBACK files will be divided by the year of publication (YR) in the primary journal rather than by date of appearance in the secondary source. Thus, TOXBACK74 will contain citations to articles published from 1974 to 1976, and TOXBACK65 will contain citations published not only between 1965 and 1973, but also prior to 1965. The acronym TOXBACK65 was chosen because two of the subfiles, CBAC and PESTAB, were created as machine-readable records beginning in 1965. Some of the subfiles in TOXBACK65 contain citations published in the primary literature earlier than 1965. The online TOXLINE file will contain citations published from 1977 forward (except for EMIC and ETIC as previously discussed). As data are added during the year, all citations to articles, regardless of publication date, will be added to TOXLINE. No updates will be made to either TOXBACK file until the TOXLINE file is regenerated again.
3. The first 36 characters of the Keyword field will be directly searchable, allowing users to search those indexing terms that are on four of the subfiles (TOXBIB, IPA, ETIC, and EMIC). For example, since TOXBIB carries MeSH headings in the Keyword field, the input of

(KW) BLOOD DONORS

would retrieve all articles indexed to this heading in TOXBIB, whereas previously it would have been necessary to input

(KW) BLOOD AND DONORS

to achieve the same effect--with more false drops being associated with the latter search. Similarly, indexing terms from IPA, EMIC, and ETIC will be available as multi-word phrases. Remember that searching on the KW field is limited since only four subfiles have indexing vocabularies and these vocabularies are not the same.

4. The Data Tags (DTG) in the CBAC subfile will have the same function as before the regeneration, but without the abbreviated version of these tags. Data tags are controlled terms flagging the presence of certain types of information, such as "Threshold Limit Value." The user is encouraged to include them in searches, since they may retrieve concepts that may not be adequately covered by free text searches.

5. The addition of CAS Registry Numbers to some citations previously without them will allow for greater retrieval of citations to articles on chemical substances by Registry Number. CHEMLINE will carry locators to the new TOXLINE files as soon as possible after the regeneration. Since much of the new data will be added to TOXBACK 74, users should find the CHEMLINE locator (LO) data element more useful in formulating Registry Number-oriented search strategies.

FILE SIZES AFTER REGENERATION  
(September 1980)

| <u>FILE NAME</u> | <u>TOXBACK65</u> | <u>TOXBACK74</u> |
|------------------|------------------|------------------|
| CBAC             | 196,015          | 147,332          |
| TOXBIB           | 112,170          | 65,433           |
| HEEP             | 29,662           | 37,198           |
| IPA              | 21,973           | 17,582           |
| PESTAB           | 12,966           | 7,961            |
| HAYES            | 10,039           | --               |
| TMIC             | <u>4,552</u>     | <u>--</u>        |
| TOTAL            | 387,377          | 275,506          |

TOXLINE file sizes will not be known until the regeneration has been completed. Out-of-date records will be purged from RPROJ, and the remaining file will be totally resident in TOXLINE, as will EMIC and ETIC.

In the near future, a subfile of toxicologically-oriented government reports obtained from NTIS will also be added to TOXLINE.

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AUGMENTED INDEX FOR ONLINE SERVICES REFERENCE MANUAL

At the NLM Online Users meeting in Washington, DC, June 16, 1980, a request was made that the index for the Online Services Reference Manual be augmented to improve its usefulness. Carole Stock, Online Coordinator for Region X, has volunteered to collect information for a revised index.

Searchers and others who have found the index lacking or confusing in particular areas are asked to provide information and commentary on needs unmet by the index. Suggestions should be as specific as possible and should be submitted in writing no later than October 1, 1980 to Carole Stock, Pacific Northwest Regional Health Sciences Library, SB-55, University of Washington, Seattle, WA 98195.

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CURRENT DOCUMENT COVERAGE IN THE HEALTH  
PLANNING AND ADMINISTRATION DATA BASE

Anne Kiger, American Hospital Association, Index Section, NLM

The Health Planning and Administration data base (HEALTH) became available to online users on November 1, 1978, as the result of an ongoing, cooperative project between the American Hospital Association (AHA) and the National Library of Medicine (NLM). The data base cites journal literature concerning health care administration. Administrative topics include delivery, planning, facilities, services, manpower, management, regulation, financing, quality, and related areas.

Current document coverage for HEALTH is derived from three sources: 1) A MEDLINE subset which includes Index Medicus (IM) journals, Special List Nursing journals, and Special List Dental journals; 2) Special List Health journals selected by AHA or NLM staff; and 3) Special List Health journals selected by the Association of American Medical Colleges (AAMC). Citations are limited to English, French, and German languages; abstracts are included when they meet NLM specifications and when the publisher permits.

As part of the cooperative project, staff from the Library of the American Hospital Association, Asa S. Bacon Memorial, are located both in Chicago and in Bethesda; they index Special List Health journals for inclusion in HEALTH. From this file is extracted the Hospital Literature Index, issued by the AHA on a quarterly basis with a hardbound annual cumulation. HEALTH is available through the NLM online network at local United States and foreign centers, but is not currently available through SUNY or commercial bibliographic vendors.

Initially, HEALTH was formed with three types of citation input: 1) retrieval by a subject search of journal citations in MEDLINE back through 1975; 2) direct input of citations from an original list of Special List Health journals indexed retrospectively through 1976; and 3) direct input of current

citations from all Special List Health journals beginning with the last journal issue of 1977. Currently, the file continues to be updated monthly, one week after the MEDLINE update (SDILINE). This update includes data from two sources: 1) a predetermined subject retrieval of journal citations from SDILINE; and 2) all journal citations selected from Special List Health journals.

The majority of Special List Health journals are selected and periodically reviewed by the AHA indexing staff for their relevance to health care administration. Selections are also initially reviewed by NLM staff. They are all English language publications and, while a core group of these journals relate directly to the field and are indexed cover-to-cover, the majority relate peripherally and are indexed selectively.

The original list of 60 Special List Health journals was indexed through 1976 (as mentioned above) and was published in the NLM Technical Bulletin 1977 Mar; (95):Appendix A, and reflects the latitude in journal selection. A revised list of retrospectively indexed Special List Health journals, including titles that have changed, ceased publication, and been selected for IM, accompanies this article. This revised list includes the original list as well as additional health administration journals and journals from related disciplines.

Further retrospective indexing of the original list and selected core journals during 1978 to 1980 extended coverage for the majority of titles in this group through 1975, including retrospective indexing through any title changes that may have occurred. Journals added to Special List Health since 1978 are not indexed retrospectively beyond the volume of the year in which they are added, unless the journal began publication during the previous year.

Data base coverage of health care administration journals published prior to 1978 may be supplemented by the multi-year cumulations of the Hospital Literature Index for the years 1945-1977. These cumulations are entitled Cumulative Index of Hospital Literature.

Records for all journals cited in HEALTH may be found in the NLM serials data base, SERLINE. SERLINE records also reflect changes in journal publication and indexing status. Special List Health records may be retrieved from SERLINE by requesting the List Indicator, "H":

#### H (LI)

Another field in the SERLINE record, the General Notes (GN), indicates which Special List Health journals are not owned by NLM because they are outside of the NLM scope and coverage policy. Within this group not collected by NLM, documents from those having "AHA" in the NLM Call Number (CA) field are available from the American Hospital Association on a fee-for-service basis. Users are encouraged to consider local and regional libraries as primary sources for these journals.

Users can find a printed list giving bibliographic information on journals cited in HEALTH in a new publication issued by NLM in January 1980, List of Serials and Monographs Indexed for Online Users. This printed list includes serials and monographs cited in MEDLINE, HEALTH, and POPLINE in one alphabetical sequence by journal title abbreviation. Each Special List Health journal is indicated by an (H) at the end of the entry.

An expanded list of substantive, primary journals regularly cited in the Hospital Literature Index may be accessed in SERLINE by searching the value HLI as the Abstracting and Indexing Tag:

#### HLI(AI)

This list includes all currently indexed Special List Health journals as well as selected Special List Nursing, Special List Dental, and IM journals. Each issue of Hospital Literature Index also lists all journals cited in that issue. Many journals cited in the Index are not received in the Library of the American Hospital Association, and users are again encouraged to use their local and regional libraries for document delivery service.

The Association of American Medical Colleges (AAMC) is currently adding citations and abstracts from their bibliography, MAP Notes, to HEALTH. The journals they cite are either IM or Special List Health journals. For a more detailed explanation of the AAMC's activities in regard to the HEALTH file, see the article in the NLM Technical Bulletin 1980 Apr;(132):3-4.

Information about the data base may be found in the following publications:

Health Planning and Administration data base. Bachrach CA. NLM Technical Bulletin 1978 Oct;(114):16

Health Planning and Administration data base. National Library of Medicine Fact Sheet. Bethesda, Md.: National Library of Medicine, January 1979

On-line searches net data for administrators. Thueson J. Hospitals 1979 Jun 16;53(12):103-4, 106, 108 passim

As the field of health care delivery becomes increasingly important to health providers, planners, regulators, and consumers, access to both current and historical information about this field will receive increasing emphasis. The Health Planning and Administration data base is widely accepted as a resource for bibliographic information on health delivery and administration.

LIST OF JOURNALS FOLLOWS ON NEXT PAGE.

SPECIAL LIST HEALTH JOURNALS INDEXED RETROSPECTIVELY

|                                                                           |                                                                 |
|---------------------------------------------------------------------------|-----------------------------------------------------------------|
| ACADEMY OF MANAGEMENT JOURNAL                                             | GROUP PRACTICE JOURNAL                                          |
| ADMINISTRATIVE SCIENCE QUARTERLY                                          | HARVARD LAW REVIEW                                              |
| AHME JOURNAL                                                              | HEALTH CARE                                                     |
| AMERICAN ARCHIVES OF REHABILITATION THERAPY                               | HEALTH CARE IN CANADA                                           |
| AMERICAN BEHAVIORAL SCIENTIST                                             | HEALTH CARE DIMENSIONS                                          |
| AMERICAN EDUCATION                                                        | HEALTH CARE MANAGEMENT REVIEW*                                  |
| AMERICAN JOURNAL OF ECONOMICS AND SOCIOLOGY                               | HEALTH CARE SYSTEMS                                             |
| AMERICAN JOURNAL OF HEALTH PLANNING                                       | HEALTH PAC BULLETIN                                             |
| AMERICAN JOURNAL OF PHARMACEUTICAL EDUCATION                              | HEALTH AND POPULATION; PERSPECTIVES AND ISSUES                  |
| AUSTRALIAN HOSPITAL                                                       | HEALTH SERVICES MANAGER                                         |
| BIOMEDICAL COMMUNICATIONS                                                 | HOSPITAL ADMINISTRATION                                         |
| BLUE CROSS ASSOCIATION RESEARCH SERIES                                    | HOSPITAL ADMINISTRATION IN CANADA                               |
| BULLETIN OF THE AMERICAN COLLEGE OF PHYSICIANS                            | HOSPITAL ADMINISTRATION CURRENTS                                |
| BULLETIN OF THE AMERICAN COLLEGE OF SURGEONS                              | HOSPITAL EQUIPMENT AND SUPPLIES                                 |
| BULLETIN - AMERICAN PROTESTANT HOSPITAL ASSOCIATION                       | HOSPITAL FINANCIAL MANAGEMENT                                   |
| CANADAS MENTAL HEALTH                                                     | HOSPITAL FORMULARY                                              |
| CANADIAN JOURNAL OF HOSPITAL PHARMACY                                     | HOSPITAL FORUM                                                  |
| CANADIAN JOURNAL OF OCCUPATIONAL THERAPY. REVUE CANADIENNE D'ERGOTHERAPIE | HOSPITAL AND HEALTH SERVICES ADMINISTRATION                     |
| CHANGE                                                                    | HOSPITAL LIBRARIES                                              |
| CLINICAL ENGINEERING                                                      | HOSPITAL MEDICAL STAFF                                          |
| CLINICAL ENGINEERING NEWS                                                 | HOSPITAL PHARMACY                                               |
| CLINICAL RESEARCH                                                         | HUMAN ORGANIZATION                                              |
| COLUMBIA LAW REVIEW                                                       | INVESTOR-OWNED HOSPITAL REVIEW                                  |
| CONSUMER REPORTS                                                          | JOURNAL OF ALLIED HEALTH*                                       |
| CORNELL LAW REVIEW                                                        | JOURNAL - AMERICAN HEALTH CARE ASSOCIATION                      |
| CROSS-REFERENCE                                                           | JOURNAL - ASSOCIATION FOR HOSPITAL MEDICAL EDUCATION            |
| CROSS-REFERENCE ON HUMAN RESOURCES MANAGEMENT                             | JOURNAL OF CLINICAL ENGINEERING                                 |
| DAEDALUS                                                                  | JOURNAL OF COMMUNITY PSYCHOLOGY                                 |
| DRUG INFORMATION JOURNAL                                                  | JOURNAL OF ENVIRONMENTAL HEALTH                                 |
| DRUG INTELLIGENCE AND CLINICAL PHARMACY                                   | JOURNAL OF HIGHER EDUCATION                                     |
| EMERGENCY MEDICAL SERVICES                                                | JOURNAL OF LONG TERM CARE ADMINISTRATION                        |
| EMPLOYEE BENEFIT PLAN REVIEW                                              | JOURNAL OF MENTAL HEALTH ADMINISTRATION                         |
| EMPLOYEE BENEFITS JOURNAL                                                 | JOURNAL - NAHD                                                  |
| ENGINEERING IN MEDICINE                                                   | JOURNAL - NATIONAL ASSOCIATION FOR HOSPITAL DEVELOPMENT         |
| EVALUATION                                                                | JOURNAL - NATIONAL ASSOCIATION OF PRIVATE PSYCHIATRIC HOSPITALS |
| FDA CONSUMER                                                              | JOURNAL OF PASTORAL CARE                                        |
| FORTUNE                                                                   | LONG TERM CARE AND HEALTH SERVICES ADMINISTRATION QUARTERLY     |
| FORUM ON MEDICINE                                                         | MEDICAL RECORD NEWS                                             |
| GROUP PRACTICE                                                            | MICHIGAN LAW REVIEW                                             |
|                                                                           | NATIONAL HOSPITAL AND HEALTH CARE                               |
|                                                                           | NIHAE BULLETIN                                                  |

\*Selected for IM



|                                                                                                  |                                           |
|--------------------------------------------------------------------------------------------------|-------------------------------------------|
| OH. OSTEOPATHIC HOSPITALS                                                                        | RESPIRATORY THERAPY                       |
| ORGANIZATIONAL BEHAVIOR AND HUMAN PERFORMANCE                                                    | REVIEW - FEDERATION OF AMERICAN HOSPITALS |
| OSTEOPATHIC HOSPITALS                                                                            | SLOAN MANAGEMENT REVIEW                   |
| PA JOURNAL                                                                                       | SOCIAL POLICY                             |
| POLICY ANALYSIS                                                                                  | STANFORD LAW REVIEW                       |
| PUBLIC HEALTH REVIEWS                                                                            | TECHNOLOGY REVIEW                         |
| PUBLIC POLICY                                                                                    | TRUSTEE                                   |
| RC. RESPIRATORY CARE                                                                             | URBAN HEALTH                              |
| RESEARCH AND STATISTICS NOTE - SOCIAL SECURITY ADMINISTRATION, OFFICE OF RESEARCH AND STATISTICS | WOMEN AND HEALTH*                         |
|                                                                                                  | WORLD HOSPITALS                           |

\*Selected for IM

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1981 MENTAL DISORDERS IN MESH  
WITH  
COMPARATIVE TABLES - MESH, DSM-II, DSM-III, ICD-9-CM  
Edith G. Calhoun, MeSH Section, NLM

In 1968 the American Psychiatric Association (APA) published a revised second edition of the Diagnostic and Statistical Manual of Mental Disorders known as DSM-II. MeSH was then updated to reflect the many changes in the psychiatric terminology. In some cases terminology in DSM-I (first edition of the same manual) or ICD-8 (International Classification of Diseases, 8th revision) was preferred for MeSH. Since 1968 there have been no major changes in the MeSH psychiatric terms.

Since the APA Task Force was established in 1974 to revise the terminology and classification in DSM-II, we have followed closely their reports with recommended changes for DSM-III. In two years of NIMH-sponsored field trials, over 500 clinicians from many facilities used successive drafts of DSM-III to evaluate over 12,000 patients. The final version was published in January 1980. Because of the extensive use of DSM-III prior to publication and training sessions for clinicians in its use since publication, the new terminology is likely to be well reflected in the literature.

Now, the psychiatric terminology in 1981 MeSH has been updated; new terms have been introduced and many cross-references have been added to reflect new concepts in DSM-III and ICD-9-CM (International Classification of Diseases, 9th revision, Clinical Modification).

DSM-III has several interesting features that are of importance to those who use it to categorize individual disorders, but that do not affect MeSH users. Among these are the multi-axial diagnostic system and the specific diagnostic criteria associated with each disorder. There are five axes, three of which are for the direct planning of treatment. They are Axes I and II which include all the mental disorders and Axis III which includes the physical disorders. Axes IV and V provide further information for use in special clinical and research settings. Axis IV includes severity of psychosocial stressors and Axis V includes information on the highest level of adaptive functioning for the past year. The specific diagnostic criteria associated with each disorder provides the clinician with information for making a diagnosis and, perhaps more importantly, for more diagnostic consistency. Multiple diagnoses may be made within the mental disorders Axes I and II.

It would appear in this system of diagnosis that there is a similarity between coordinate indexing and the multi-axial approach along with codes to specify acute, chronic, remission, psychotic features, etc.

Two major areas in which DSM-III differs from DSM-II and ICD-9-CM pertain to the classification of the Neuroses and Psychoses. MeSH has partially reflected these changes by replacing specific neurotic disorders with the new DSM-III term and adding cross-references for each neurosis. However, we have listed Neurotic Disorders and Psychotic Disorders with their specifics in our hierarchical structure. This is in agreement with ICD-9-CM and with previous MeSH tree structures. DSM-III does not separate out the Neurotic and Psychotic Disorders for classification purposes. They do describe the disorders which represent most fully these classification designations and it is from these descriptions as well as from ICD-9-CM that the MeSH tree of mental disorders was designed.

In selecting the new terms for MeSH we took into account compatibility with DSM-III and/or its equivalent in ICD-9-CM. Retention of an old concept was felt desirable in some instances. For example, Psychophysiologic Disorders are still being written about to a great extent and the new phrase in DSM-III (see Table) as its equivalent is too cumbersome for use in our system. Because of the many changes reflected in DSM-III it seemed appropriate and desirable to describe in tabular form the equivalents or near equivalents of the terms in the 1981 MeSH vocabulary of mental disorders with those of 1980 MeSH, DSM-II, DSM-III and ICD-9-CM. This table does not include those 1980 terms that were deleted. The term or phrase in parentheses indicates that the term is not a precise equivalent, but may be more generic or have more specifics included. Bipolar Disorder in MeSH does not list the specific types Manic or Depressed, whereas in the other classifications they are given as specifics to the generic term or phrase. The dashes indicate there are no equivalents in the classification.

TABLE FOLLOWS ON NEXT PAGE.

| Adjustment Disorders            | Depression, Reactive    | Depressive Neurosis; includes Depression Reaction | Adjustment Disorders                              | Adjustment Reaction/ Disorder; includes Depressive Reaction |
|---------------------------------|-------------------------|---------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------|
| Affective Disorders             | - - - -                 | Major Affective Disorders                         | Major Affective Disorders                         | - - - -                                                     |
| Affective Disorders, Psychotic  | - - - -                 | Major Affective Disorders                         | Major Affective Disorders with psychotic features | Affective Psychoses                                         |
| Agoraphobia                     | Agoraphobia             | Agoraphobia                                       | Agoraphobia                                       | Agoraphobia                                                 |
| Alcohol Amnestic Disorder       | Korsakoff's Syndrome    | Korsakoff's Psychosis, Alcoholic                  | Alcohol Amnestic Disorder                         | Alcohol Amnestic Syndrome                                   |
| Alcohol Intoxication            | Alcohol Intoxication    | Acute Alcohol Intoxication                        | Alcohol Intoxication                              | Alcohol Intoxication                                        |
| Alcohol Withdrawal Delirium     | Delirium Tremens        | Delirium Tremens                                  | Alcohol Withdrawal Delirium                       | Alcohol Withdrawal Delirium                                 |
| Alcoholism                      | Alcoholism              | Alcoholism                                        | Alcohol Abuse and Alcohol Dependence              | Alcohol Dependence Syndrome                                 |
| Alzheimer's Disease             | Alzheimer's Disease     | - - - -                                           | - - - -                                           | Alzheimer's Disease                                         |
| Antisocial Personality Disorder | Antisocial Personality  | Antisocial Personality                            | Antisocial Personality Disorder                   | Antisocial Personality Disorder                             |
| Anxiety, Castration             | Anxiety, Castration     | - - - -                                           | - - - -                                           | - - - -                                                     |
| Anxiety Disorders               | Neuroses, Anxiety       | Anxiety Neuroses                                  | Anxiety States                                    | Anxiety States                                              |
| Anxiety, Separation             | Anxiety, Separation     | Separation Anxiety                                | Separation Anxiety Disorder                       | Separation Anxiety Disorder                                 |
| Autism, Infantile               | Autism, Early Infantile | - - - -                                           | Infantile Autism                                  | Infantile Autism                                            |

| MeSH 1981                             | MeSH 1980                        | DSM I                                | DSM II                                                              | ICD-9-CM                                                         |
|---------------------------------------|----------------------------------|--------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------|
| Bipolar Disorder                      | Psychoses, Manic-Depressive      | (Manic-Depressive Illness)           | (Bipolar Disorder)                                                  | (Bipolar Affective Disorder)                                     |
| Borderline Personality Disorder       | - - - -                          | - - - -                              | Borderline Personality Disorder                                     | Borderline Personality Disorder                                  |
| Cannabis Abuse                        | Drug Abuse and Cannabis          | Drug Dependence, Cannabis sativa     | Cannabis Abuse                                                      | Cannabis Abuse                                                   |
| Child Behavior Disorders              | Child Behavior Disorders         | Behavior Disorders of Childhood      | Disorders usually first evident in Infancy, Childhood & Adolescence | (Disturbance of emotions specific to Childhood & Adolescence)    |
| Child Development Disorders           | Child Development Deviations     | Specific Learning Disturbance        | Specific Developmental Disorders                                    | Specific Developmental Delay Disorders                           |
| Child Development Disorders Pervasive | - - - -                          | - - - -                              | Childhood onset Pervasive Developmental Disorders                   | Psychoses, Childhood; includes Pervasive Developmental Disorders |
| Child Reactive Disorders              | Child Reactive Disorders         | - - - -                              | - - - -                                                             | - - - -                                                          |
| Combat Disorders                      | Neuroses, War                    | - - - -                              | - - - -                                                             | Combat Fatigue                                                   |
| Compulsive Personality Disorder       | Obsessive-Compulsive Personality | Obsessive-Compulsive Personality     | Compulsive Personality Disorder                                     | Compulsive Personality Disorder                                  |
| Conversion Disorder                   | Conversion Reaction              | Hysterical Neurosis, Conversion type | Conversion Disorder                                                 | Conversion Disorder                                              |
| Cyclothymic Disorder                  | Cyclothymic Personality          | Cyclothymic Personality              | Cyclothymic Disorder                                                | Cyclothymic Disorder                                             |
| Delirium                              | Delirium                         | - - - -                              | Delirium (substance-induced; Organic Mental Disorders)              | Delirium (drug-induced; Organic Psychotic Conditions)            |

|                                | MeSH 1980                     | DSM I                                  | DSM II                                                                         | ICD-9-CM                                                                   |
|--------------------------------|-------------------------------|----------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Delusions                      | Delusions                     | - - - -                                | (Organic Delusional Syndrome; Delusions with Organic Mental Disorders)         | (Organic Delusional Syndrome; Delusions with Organic Psychotic Conditions) |
| Dementia                       | - - - -                       | - - - -                                | Dementia (substance-induced; associated with Organic mental Disorders)         | Dementia (drug-induced; associated with Organic Psychotic Conditions)      |
| Dementia, Presenile            | Dementia, Presenile           | Presenile Dementia                     | Primary Degenerative Dementia, presenile onset                                 | Presenile Dementia                                                         |
| Dementia, Senile               | Dementia, Senile              | Senile Dementia                        | Primary Degenerative Dementia, senile onset                                    | Senile Dementia                                                            |
| Dependent Personality Disorder | Passive-Dependent Personality | - - - -                                | Dependent Personality Disorder                                                 | Dependent Personality Disorder                                             |
| Depersonalization Disorder     | Depersonalization             | Depersonalization Neurosis             | Depersonalization Disorder                                                     | Depersonalization Syndrome                                                 |
| Depression, Involutional       | Psychoses, Involutional       | Involutional Melancholia               | (Major Depression, single episode with melancholia or with psychotic features) | Involutional Melancholia                                                   |
| Depressive Disorder            | Depression                    | Depressive Neurosis                    | Major Depression (Includes Neurotic and Psychotic type)                        | Major Depressive Disorder (Excludes Neurotic Depression)                   |
| Dissociative Disorders         | Dissociative Reaction         | Hysterical Neurosis, dissociative type | Dissociative Disorders                                                         | Hysteria, dissociative type                                                |
| Dyspareunia                    | Dyspareunia                   | Dyspareunia                            | Functional Dyspareunia                                                         | Functional Dyspareunia                                                     |
| Exhibitionism                  | Exhibitionism                 | Exhibitionism                          | Exhibitionism                                                                  | Exhibitionism                                                              |

| MeSH 1981                       | MeSH 1980                 | DSM I                                                         | DSM II                                          | ICD-9-CM                                                                                          |
|---------------------------------|---------------------------|---------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Factitious Disorders            | - - - -                   | - - - -                                                       | Factitious Disorders                            | Factitious Illness                                                                                |
| Fetishism (Psychiatric)         | Fetishism (Psychiatric)   | Fetishism                                                     | Fetishism                                       | Fetishism                                                                                         |
| Firesetting Behavior            | Firesetting Behavior      | - - - -                                                       | (Pyromania)                                     | (Pyromania)                                                                                       |
| Frigidity                       | Frigidity                 | - - - -                                                       | Inhibited Sexual Excitement; includes frigidity | Inhibited Sexual Excitement; includes frigidity                                                   |
| Gambling                        | Gambling                  | - - - -                                                       | (Pathological Gambling)                         | (Pathological Gambling)                                                                           |
| Heroin Dependence               | Heroin Addiction          | Drug Dependence, opium, opium alkaloids and their derivatives | Opioid Dependence and Heroin                    | Opioid type dependence and Heroin                                                                 |
| Histrionic Personality Disorder | Hysterical Personality    | Hysterical Personality                                        | Histrionic Personality Disorder                 | Histrionic Personality Disorder                                                                   |
| Homosexuality, Egodystonic      | - - - -                   | Sexual Orientation Disturbance ('73-'80)                      | Homosexuality, Egodystonic                      | Homosexuality                                                                                     |
| Hyperkinetic Syndrome           | Minimal Brain Dysfunction | Hyperkinetic reaction of childhood (or adolescence)           | Attention Deficit Disorder with Hyperactivity   | Hyperkinetic Syndrome of childhood; includes attention deficit disorders and other manifestations |
| Hypochondriasis                 | Hypochondriasis           | Hypochondriacal Neurosis                                      | Hypochondriasis                                 | Hypochondriasis                                                                                   |
| Impotence                       | Impotence                 | Impotence                                                     | Inhibited Sexual Excitement; includes impotence | Inhibited Sexual Excitement; includes impotence                                                   |
| Impulse Control Disorders       | - - - -                   | - - - -                                                       | Disorders of Impulse Control                    | Disorders of Impulse Control                                                                      |

|                               |                               |                                                               |                                                                                        |                                                                    |
|-------------------------------|-------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Jakob-Creutzfeldt Syndrome    | Creutzfeldt-Jacob Disease     | - - - -                                                       | - - - -                                                                                | Jakob-Creutzfeldt Disease                                          |
| Juvenile Delinquency          | Juvenile Delinquency          | Group delinquency reaction of childhood (or adolescence)      | (Conduct Disorder, Socialized, aggressive Conduct Disorder, Socialized, nonaggressive) | Disturbance of Conduct, unspecified; includes Juvenile Delinquency |
| Kleptomania                   | Kleptomania                   | - - - -                                                       | Kleptomania                                                                            | Kleptomania                                                        |
| Manic Disorder                | - - - -                       | Manic type                                                    | Major Affective Disorders-Manic Episode                                                | Manic Disorder-single and recurrent episodes                       |
| Masochism                     | Masochism                     | Masochism                                                     | Sexual Masochism                                                                       | Sexual Masochism                                                   |
| Masturbation                  | Masturbation                  | - - - -                                                       | - - - -                                                                                | - - - -                                                            |
| Mental Disorders              | Mental Disorders              | Mental Disorders                                              | Mental Disorders                                                                       | Mental Disorders                                                   |
| Mental Retardation            | Mental Retardation            | Mental Retardation                                            | Mental Retardation                                                                     | Mental Retardation                                                 |
| Morphine Dependence           | Morphine Addiction            | Drug Dependence, opium, opium alkaloids and their derivatives | Opioid Dependence and Morphine                                                         | Opioid type dependence and Morphine                                |
| Multiple Personality Disorder | Multiple Personality Disorder | Multiple Personality                                          | Multiple Personality                                                                   | Multiple Personality                                               |
| Munchausen Syndrome           | Munchausen Syndrome           | - - - -                                                       | Munchausen Syndrome                                                                    | Munchausen Syndrome                                                |
| Narcotic Dependence           | Narcotic Addiction            | - - - -                                                       | - - - -                                                                                | - - - -                                                            |
| Neurasthenia                  | Neurasthenia                  | Neurasthenic Neurosis                                         | - - - -                                                                                | Neurasthenia                                                       |
| Neurocirculatory Asthenia     | Neurocirculatory Asthenia     | - - - -                                                       | - - - -                                                                                | - - - -                                                            |

| Neurotic Disorders                          | Neuroses                              | Neuroses                                          | Neurotic Disorders (not as a part of classification) | Neurotic Disorders                                   |
|---------------------------------------------|---------------------------------------|---------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Obsessive-Compulsive Disorder               | Neuroses, Obsessive-Compulsive        | Obsessive-Compulsive Neurosis                     | Obsessive-Compulsive Disorder                        | Obsessive-Compulsive Disorder                        |
| Organic Mental Disorders                    | Non-psychoctic Organic Brain Syndrome | Non-psychoctic organic Brain Syndrome             | (Organic Mental Disorders)                           | (Nonpsychoctic mental disorders due to brain damage) |
| Organic Mental Disorders, Psychotic         | Psychoses, Organic                    | Psychoses associated with Organic Brain Syndromes | (Organic Mental Disorders)                           | Organic Psychotic Conditions                         |
| Organic Mental Disorders, substance-induced | - - - -                               | (Organic Brain Syndromes, with drug, poison, ..)  | Substance-induced Organic Mental Disorders           | - - - -                                              |
| Paranoid Disorders                          | Paranoia                              | Paranoid States                                   | Paranoid Disorders                                   | Paranoid States                                      |
| Paranoid Personality Disorder               | Paranoid Personality Disorder         | Paranoid Personality                              | Paranoid Personality Disorder                        | Paranoid Personality Disorder                        |
| Paraphilias                                 | Sex Deviation                         | Sexual Deviations                                 | Paraphilias                                          | Sexual Deviations                                    |
| Passive-Aggressive Personality Disorder     | Passive-Aggressive Personality        | Passive-Aggressive Personality                    | Passive-Aggressive Personality Disorder              | Passive-Aggressive Personality                       |
| Pedophilia                                  | Pedophilia                            | Pedophilia                                        | Pedophilia                                           | Pedophilia                                           |
| Personality Disorders                       | Personality Disorders                 | Personality Disorders                             | Personality Disorders                                | Personality Disorders                                |
| Phencyclidine Abuse                         | Drug Abuse and Phencyclidine          | - - - -                                           | Phencyclidine (PCP) Abuse                            | (Hallucinogen Abuse)                                 |
| Phobic Disorders                            | Phobias                               | Phobic Neurosis                                   | Phobic Disorders                                     | Phobic Disorders                                     |



| MeSH 1981                     | MeSH 1980                     | DSM I                                             | DSM II                                             | ICD-9-CM                                                  |
|-------------------------------|-------------------------------|---------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------|
| Psychophysiological Disorders | Psychophysiological Disorders | Psychophysiological Disorders                     | Psychological Factors affecting Physical Condition | Physiological Malfunction arising from mental factors     |
| Psychosexual Disorders        | - - - -                       | - - - -                                           | Psychosexual Disorders                             | (Sexual Deviations and disorders; Psychosexual Disorders) |
| Psychosexual Dysfunctions     | (Sex Disorders)               | - - - -                                           | Psychosexual Dysfunctions                          | Psychosexual Dysfunctions                                 |
| Psychoses, Alcoholic          | Psychoses, Alcoholic          | Alcoholic Psychosis                               | (Alcohol Organic Mental Disorders)                 | Alcoholic Psychoses                                       |
| Psychoses, Substance-Induced  | Psychoses, Toxic              | Psychosis with drug or poison intoxication        | (Organic Mental Disorders, Substance Induced)      | Drug Psychoses                                            |
| Psychotic Disorders           | Psychoses                     | Psychoses                                         | (Psychotic Disorders; Psychotic features)          | Psychoses - refers to non-organic psychoses               |
| Runaway Reaction              | Runaway Reaction              | Runaway reaction of childhood (or adolescence)    | Conduct Disorder, undersocialized, non-aggressive  | Undersocialized conduct disorder, unaggressive type       |
| Sadism                        | Sadism                        | Sadism                                            | Sexual Sadism                                      | Sexual Sadism                                             |
| Schizoid Personality Disorder | Schizoid Personality          | Schizoid Personality                              | Schizoid Personality Disorder                      | Schizoid Personality Disorder                             |
| Schizophrenia                 | Schizophrenia                 | Schizophrenia                                     | Schizophrenic Disorders                            | Schizophrenic Disorders                                   |
| Schizophrenia, Catatonic      | Schizophrenia, Catatonic      | Schizophrenia, Catatonic type, excited, withdrawn | Schizophrenia, Catatonic type                      | Schizophrenia, Catatonic type                             |

|                                           |                            |                                      |                                  |                                           |
|-------------------------------------------|----------------------------|--------------------------------------|----------------------------------|-------------------------------------------|
| Schizophrenia, Childhood                  | Schizophrenia, Childhood   | Schizophrenia, Childhood type        | Schizophrenia in childhood       | Psychosis, Child                          |
| Schizophrenia, Disorganized               | Schizophrenia, Hebephrenic | Schizophrenia, Hebephrenic type      | Schizophrenia, Disorganized type | Schizophrenia, Disorganized type          |
| Schizophrenia, Paranoid                   | Schizophrenia, Paranoid    | Schizophrenia, Paranoid type         | Schizophrenia, Paranoid type     | Schizophrenia, Paranoid type              |
| Schizotypal Personality Disorder          | Schizophrenia, Latent      | Schizophrenia, Latent                | Schizotypal Personality Disorder | Schizotypal Personality                   |
| Shared Paranoid Disorder                  | Folie a Deux               | - - - -                              | Shared Paranoid Disorder         | Shared Paranoid Disorder                  |
| Somatoform Disorders                      | - - - -                    | - - - -                              | Somatoform Disorders             | - - - -                                   |
| Stress Disorders, Post-traumatic          | Neuroses, Post-traumatic   | - - - -                              | Post-traumatic, Stress Disorder  | Posttraumatic Stress Disorder             |
| Substance Abuse                           | Drug Abuse                 | Drug Dependence; includes drug abuse | Substance Abuse                  | Drug Abuse                                |
| Substance Dependence                      | Drug Dependence            | Drug Dependence                      | Substance Dependence             | Drug Dependence                           |
| Substance Use Disorders                   | - - - -                    | Drug Dependence                      | Substance Use Disorders          | - - - -                                   |
| Substance Withdrawal Syndrome             | Drug Withdrawal Symptoms   | - - - -                              | Substance Withdrawal             | Drug Withdrawal Syndrome                  |
| Tobacco Use Disorder; includes dependence | - - - -                    | - - - -                              | Tobacco Dependence               | Tobacco Use Disorder, includes dependence |
| Transsexualism                            | Transsexualism             | - - - -                              | Transsexualism                   | Transsexualism                            |
| Transvestism                              | Transvestism               | Transvestism                         | Transvestism                     | Transvestism                              |
| Voyeurism                                 | Voyeurism                  | Voyeurism                            | Voyeurism                        | Voyeurism                                 |

NEW SERIALS ANNOUNCEMENT - JULY 1980  
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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.

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 1,1979--  
 PATHOTOX PUBLISHERS  
 PARK FOREST SOUTH UNITED STATES  
 IL  
 PATHOTOX PUBLISHERS, INC. 2405 BOND ST.  
 PARK FOREST SOUTH , ILLINOIS 60466  
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ATHEROGENESIS. ATHEROGENESE  
 4,1979--  
 VERLAG WILHELM MAUDRICH  
 CONTINUES ATHEROGENESE.  
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 A70955000

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 JUL 1980--  
 ACADEMIC PRESS  
 NEW YORK UNITED STATES  
 ON ORDER  
 B15270000

IM BRITISH JOURNAL OF CLINICAL PRACTICE. A  
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 8,1980--  
 HARVEY AND BLYTHE  
 LONDON ENGLAND  
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COMPREHENSIVE MANUALS OF SURGICAL  
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 1980--  
 SPRINGER-VERLAG  
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 C47465000

COTH SURVEY OF HOUSE STAFF STIPENDS,  
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 ASSOCIATION OF AMERICAN MEDICAL COLLEGES  
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 1,OCT 1979--  
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 FALLS CHURCH VA UNITED STATES  
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 CHURCH, VA 22041  
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 E05785000

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 1,FALL 1980--  
 HAWORTH PRESS  
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 E05930000  
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 PHARMACEUTICALS  
 40110,5MAY 1980--  
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 CONTINUES IN PART FDC REPORTS; DRUGS AND  
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 BOX 24, SINGAPORE COUNCIL OF SOCIAL  
 SERVICE, PENANG LANE, SINGAPORE 0923,  
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IM HEPATO-GASTROENTEROLOGY  
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 GEORG THIEME VERLAG  
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 STUTTGART GERMANY, WEST  
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 1,JAN 1980--  
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 EDUCATION, RECREATION, AND DANCE  
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IM NUCLEIC ACIDS SYMPOSIUM SERIES  
 N6,1979--  
 INFORMATION RETREIVAL  
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 1,1980--  
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 P08990000

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 AMERICAN HOSPITAL ASSOCIATION  
 CHICAGO UNITED STATES  
 840 N. LAKESHORE DRIVE, CHICAGO, IL 60611  
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 P49970000  
 \$24.00

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 1,1980--  
 ALAN R. LISS  
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 1758, PRETORIA 0001, REPUBLIC OF SOUTH  
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## LIST OF MONOGRAPHS INDEXED SEPTEMBER 1980

Hanford Life Sciences Symposium, 18th, Richland, Wash.,  
 1978. Biological effects of extremely low frequency  
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 Washington, October 16-18, 1978 / sponsored by Office  
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 and Pacific Northwest Laboratories, Battelle Memorial  
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 Springfield, Va. : Technical Information Center, U. S.  
 Dept. of Energy, 1979. xiv, 577 p. : ill. -- (DOE  
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 1. Electromagnetics - adverse effects - congresses  
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 Richard D. 1929- ed. II. Battelle-Northwest,  
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 Electric Power Research Institute. IV. U. S. Dept  
 of Energy. Office of Health and Environmental  
 Research. V Title VI. Series VII. Series  
 CONF. 781016  
 ISBN 0-87079-118-4 LC: 79-607778  
 04NLM W3 HA213 18th 1978b  
 0XNLM. [QP 82.2 E43 H238 1978b]  
 IM Cit No 8005174

PHONES LIST

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

FOR 120 CPS USE COMPATIBLE MODEMS INCLUDE:

V3405 = VADIC 3405 MODEM COMPATIBLE. THE FOLLOWING VADIC MODEMS ARE V3405 COMPATIBLE: VA3455P, VA3451P, VA3434. THE FOLLOWING ANDERSON JACOBSON MODEMS ARE V3405 COMPATIBLE: AJ1234 AND AJ1255.

B/V = TELENET VADIC SUPER MODEM (V3467) NODE. USERS WITH EITHER B212A OR V3405-COMPATIBLE MODEMS MAY USE THESE NUMBERS.

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     |                                             |                                        |       | 205/251-2495 |      |       |
| AL | BESSEMER     |                                             |                                        |       | 205/326-3420 | B/V  | 120   |
| AL | BIRMINGHAM   | 205/942-4141                                | B                                      |       | 205/251-2495 |      |       |
| AL | BIRMINGHAM   | 205/834-3410                                | B212A                                  | 120   | 205/326-3420 | B/V  | 120   |
| AL | HUNTSVILLE   | 205/533-5137                                | FX                                     | B     |              |      |       |
| AL | MONTGOMERY   | 205/834-3410                                | FX                                     | B     |              |      |       |
| AR | FT. SMITH    | 501/782-3210                                | B212A                                  | 120   |              |      |       |
| AR | LITTLE ROCK  | 501/372-5780                                | FX                                     | B     |              |      |       |
| AR | LITTLE ROCK  | 501/376-3768                                | B212A                                  | 120   |              |      |       |
| AZ | MESA         |                                             |                                        |       | 602/257-1552 |      |       |
| AZ | MESA         |                                             |                                        |       | 602/271-0533 | B/V  | 120   |
| AZ | PHOENIX      | 602/249-9261                                | B                                      |       | 602/257-1552 |      |       |
| AZ | PHOENIX      | 602/249-3862                                | B212A                                  | 120   | 602/271-0533 | B/V  | 120   |
| AZ | SCOTTSDALE   |                                             |                                        |       | 602/257-1552 |      |       |
| AZ | SCOTTSDALE   |                                             |                                        |       | 602/271-0533 | B/V  | 120   |
| AZ | TEMPE        |                                             |                                        |       | 602/257-1552 |      |       |
| AZ | TEMPE        |                                             |                                        |       | 602/271-0533 | B/V  | 120   |
| AZ | TUCSON       | 602/790-0764                                | B                                      |       | 602/790-0427 |      |       |
| AZ | TUCSON       | 602/747-4097                                | B212A                                  | 120   | 602/745-1666 | B/V  | 120   |
| CA | ALHAMBRA     | 213/572-0999                                | FX                                     | B     | 213/956-8235 |      |       |
| CA | ALHAMBRA     |                                             |                                        |       | 213/246-0318 | B/V  | 120   |
| CA | ARDADIA      | 213/574-7636                                | FX                                     | B     |              |      |       |
| CA | ANAHEIM      |                                             |                                        |       | 714/558-6061 |      |       |
| CA | BURLINGAME   | 415/348-4992                                | FX                                     | B     | 415/595-0360 |      |       |
| CA | BURLINGAME   |                                             |                                        |       | 415/591-0726 | B/V  | 120   |
| CA | CANOGA PARK  |                                             |                                        |       | 213/549-5150 |      |       |
| CA | CANOGA PARK  |                                             |                                        |       | 210/548-6141 | B/V  | 120   |
| CA | COLTON       | 714/825-9372                                | B                                      |       | 714/824-1710 |      |       |
| CA | COLTON       | 714/824-8170                                | B212A                                  | 120   | 213/549-5150 | B/V  | 120   |
| CA | COLTON       |                                             |                                        |       | 714/824-3805 | B/V  | 120   |
| CA | CUPERTINO    | 408/446-7309                                | B212A                                  | 120   |              |      |       |
| CA | CUPERTINO    | 408/446-7001                                | V3405                                  | 120   |              |      |       |
| CA | CUPERTINO    | 408/446-1470                                | B                                      |       | 408/279-8450 |      |       |
| CA | CUPERTINO    | 408/257-0593                                | CCITT RESTRICTED FOR OVERSEAS USE ONLY |       |              |      |       |
| CA | EL MONTE     |                                             |                                        |       | 213/956-8235 |      |       |
| CA | EL MONTE     |                                             |                                        |       | 213/246-0318 | B/V  | 120   |
| CA | EL SEGUNDO   | 213/640-1570                                | B                                      |       | 213/822-9287 |      |       |
| CA | EL SEGUNDO   | 213/640-1281                                | B212A                                  | 120   |              |      |       |
| CA | FRESNO       | 209/445-0911                                | FX                                     | B     |              |      |       |
| CA | FULLERTON    |                                             |                                        |       | 714/558-6061 |      |       |
| CA | GARDEN GROVE |                                             |                                        |       | 714/891-5711 |      |       |
| CA | GLENDALE     |                                             |                                        |       | 213/956-8235 |      |       |

| ST | CITY             | TYMNET       | TYPE  | SPEED | TELENET      | TYPE         | SPEED |
|----|------------------|--------------|-------|-------|--------------|--------------|-------|
| CA | GLENDALE         |              |       |       | 213/246-0318 | B/V          | 120   |
| CA | HAYWARD          | 415/785-3431 | B     |       |              |              |       |
| CA | HOLLYWOOD        |              |       |       | 213/624-5230 |              |       |
| CA | HOLLYWOOD        |              |       |       | 213/937-3580 |              |       |
| CA | HOLLYWOOD        |              |       |       | 213/624-0901 | B212A        | 120   |
| CA | HOLLYWOOD        |              |       |       | 213/624-1521 | V3405        | 120   |
| CA | HUNTINGTON BEACH |              |       |       | 714/558-6061 |              |       |
| CA | INGLEWOOD        |              |       |       | 213/624-5230 |              |       |
| CA | INGLEWOOD        |              |       |       | 213/937-3580 |              |       |
| CA | INGLEWOOD        |              |       |       | 213/624-0901 | B212A        | 120   |
| CA | INGLEWOOD        |              |       |       | 213/624-1521 | V3405        | 120   |
| CA | LONG BEACH       |              |       |       | 213/549-5150 |              |       |
| CA | LONG BEACH       | 213/436-3929 | FX    | B212A | 120          | B/V          | 120   |
| CA | LOS ALTOS        |              |       |       | 415/856-9930 |              |       |
| CA | LOS ANGELES      | 213/683-0451 | B     |       | 213/624-5230 |              |       |
| CA | LOS ANGELES      | 213/629-3451 | B     |       |              |              |       |
| CA | LOS ANGELES      | 213/629-1561 | B     |       | 213/937-3580 |              |       |
| CA | LOS ANGELES      | 213/687-8083 | V3405 | 120   | 213/624-1521 | V3405        | 120   |
| CA | LOS ANGELES      | 213/626-0365 | B212A | 120   | 213/624-0901 | B212A        | 120   |
| CA | MARINA DEL REY   | 213/821-2257 | FX    | B     | 213/822-9287 |              |       |
| CA | MODESTO          | 209/578-4236 | FX    | B     |              |              |       |
| CA | MOUNTAIN VIEW    | 415/961-7971 | B     |       | 415/856-9930 |              |       |
| CA | MOUNTAIN VIEW    | 415/941-8450 | B     |       |              |              |       |
| CA | MOUNTAIN VIEW    | 415/949-0330 | B212A | 120   |              |              |       |
| CA | NEWPORT BEACH    | 714/540-9560 | B     |       | 714/558-6061 |              |       |
| CA | NEWPORT BEACH    | 714/540-0951 | B212A | 120   |              |              |       |
| CA | NORTHRIDGE       | 213/998-4872 | FX    | B212A | 120          |              |       |
| CA | NORWALK          | 213/865-2066 | FX    | B212A | 120          |              |       |
| CA | OAKLAND          | 415/836-8700 | B     |       | 415/362-6200 |              |       |
| CA | OAKLAND          | 415/836-8900 | B212A | 120   |              |              |       |
| CA | OAKLAND          |              |       |       | 415/956-5777 | B/V          | 120   |
| CA | OXNARD           | 805/487-0482 | B     |       | 805/659-4660 |              |       |
| CA | OXNARD           | 805/486-4536 | B212A | 120   | 805/647-6760 | B/V          | 120   |
| CA | PALO ALTO        | 415/856-9080 | B     |       | 415/856-9930 |              |       |
| CA | PASADENA         | 213/577-8722 | FX    | B212A | 120          | 213/956-8235 |       |
| CA | PASADENA         |              |       |       | 213/246-0318 | B/V          | 120   |
| CA | REDWOOD CITY     |              |       |       | 415/595-0360 |              |       |
| CA | REDWOOD CITY     |              |       |       | 415/591-0726 | B/V          | 120   |
| CA | RIVERSIDE        | 714/825-9372 | B     |       | 714/824-1710 |              |       |
| CA | RIVERSIDE        | 714/824-8170 | B212A | 120   | 714/824-3805 | B/V          | 120   |
| CA | SACRAMENTO       | 916/441-6550 | B     |       | 916/443-7921 |              |       |
| CA | SACRAMENTO       | 916/448-8151 | B212A | 120   | 916/448-6262 | B/V          | 120   |
| CA | SAN BERNADINO    |              |       |       | 714/824-1710 |              |       |
| CA | SAN BERNADINO    |              |       |       | 714/824-3805 | 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        | 714/293-3590 | B212A | 120   | 714/233-0233 | B/V          | 120   |
| CA | SAN DIEGO        | 714/291-8700 | B     |       | 714/231-1922 |              |       |
| CA | SAN FRANCISCO    | 415/986-8200 | B     |       | 415/362-6200 |              |       |
| CA | SAN FRANCISCO    | 415/362-4307 | B     |       |              |              |       |
| CA | SAN FRANCISCO    | 415/421-7121 | V3405 | 120   | 415/956-5777 | B/V          | 120   |
| CA | SAN FRANCISCO    | 415/788-7955 | B212A | 120   |              |              |       |
| CA | SAN FRANCISCO    | 415/981-5990 | B212A | 120   |              |              |       |
| CA | SAN JOSE         | 408/446-7001 | V3405 | 120   |              |              |       |
| CA | SAN JOSE         | 408/446-7309 | B212A | 120   |              |              |       |
| CA | SAN JOSE         | 408/446-1470 | B     |       | 408/279-8450 |              |       |
| CA | SAN MATEO        |              |       |       | 415/595-0360 |              |       |
| CA | SAN MATEO        |              |       |       | 415/591-0726 | B/V          | 120   |
| CA | SAN PEDRO        | 213/830-0775 | FX    | B     | 213/549-5150 |              |       |
| CA | SAN PEDRO        |              |       |       | 213/548-6141 | B/V          | 120   |
| CA | SANTA ANA        |              |       |       | 714/558-6061 |              |       |
| CA | SANTA BARBARA    | 805/687-6119 | FX    | B     |              |              |       |
| CA | SANTA CLARA      |              |       |       | 408/279-8450 |              |       |
| CA | SANTA CRUZ       | 408/429-9572 | B212A | 120   |              |              |       |
| CA | SANTA MONICA     |              |       |       | 213/822-9287 |              |       |
| CA | SANTA ROSA       | 707/546-1050 | B     |       |              |              |       |
| CA | SANTA ROSA       | 707/546-6776 | B212A | 120   |              |              |       |
| CA | SUNNYVALE        |              |       |       | 408/279-8450 |              |       |
| CA | TORRANCE         |              |       |       | 213/822-9287 |              |       |
| CA | VAN NUYS         | 213/986-9503 | FX    | B     |              |              |       |
| CA | VENTURA          | 805/487-0482 | B     |       | 805/659-4660 |              |       |
| CA | VENTURA          | 805/486-4536 | B212A | 120   | 805/647-6760 | B/V          | 120   |
| CA | VISTA            | 714/727-6011 | FX    | B     |              |              |       |
| CA | WEST COVINA      | 213/331-3954 | B     |       |              |              |       |
| CA | WOODSIDE         |              |       |       | 415/856-9930 |              |       |
| CO | AURORA           |              |       |       | 303/623-0876 |              |       |

| ST | CITY             | TYMNET                                      | TYPE          | SPEED | TELENET      | TYPE  | SPEED |
|----|------------------|---------------------------------------------|---------------|-------|--------------|-------|-------|
| CO | AURORA           |                                             |               |       | 303/629-1821 | B/V   | 120   |
| CO | BOULDER          |                                             |               |       | 303/623-0876 |       |       |
| CO | BOULDER          |                                             |               |       | 303/629-1821 | B/V   | 120   |
| CO | COLO. SPRINGS    | 303/475-2121                                | FX B          |       |              |       |       |
| CO | COLO. SPRINGS    | 303/633-9599                                | B212A         | 120   |              |       |       |
| CO | DENVER           | 303/573-9981                                | B             |       | 303/623-0876 |       |       |
| CO | DENVER           | 303/573-0177                                | B             |       |              |       |       |
| CO | DENVER           | 303/572-1107                                | V3405         | 120   |              |       |       |
| CO | DENVER           | 303/825-0635                                | B212A         | 120   | 303/629-1821 | B/V   | 120   |
| CO | LAKEWOOD         |                                             |               |       | 303/623-0876 |       |       |
| CO | LAKEWOOD         |                                             |               |       | 303/629-1821 | B212A | 120   |
| CT | BRIDGEPORT       | 203/579-7820                                | FX B          |       |              |       |       |
| CT | DANBURY          | 203/743-1340                                | FX B          |       |              |       |       |
| CT | DARIEN           | 203/655-8931                                | B             |       |              |       |       |
| CT | DARIEN           | 203/655-7951                                | B212A         | 120   |              |       |       |
| CT | FAIRFIELD/BRDGPT | 203/333-4926                                | B212A         | 120   |              |       |       |
| CT | GREENWICH        |                                             |               |       | 203/357-1800 |       |       |
| CT | GREENWICH        |                                             |               |       | 203/348-0787 | B/V   | 120   |
| CT | HARTFORD         | 203/568-2610                                | B             |       | 203/522-0344 |       |       |
| CT | HARTFORD         | 203/569-3643                                | B212A         | 120   | 203/247-9479 | B/V   | 120   |
| CT | MILFORD          |                                             |               |       | 203/789-0211 |       |       |
| CT | MILFORD          |                                             |               |       | 203/624-5954 | B/V   | 120   |
| CT | NEW HAVEN        | 203/789-0579                                | B             |       | 203/789-0211 |       |       |
| CT | NEW HAVEN        | 203/787-1702                                | B212A         | 120   | 203/624-5954 | B/V   | 120   |
| CT | STAMFORD         |                                             |               |       | 203/357-1800 |       |       |
| 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       | 703/841-0200                                | B             |       | 202/347-1400 |       |       |
| DC | WASHINGTON       | 703/841-9560                                | B             |       | 202/783-2050 |       |       |
| DC | WASHINGTON       | 703/841-9330                                | V3405         | 120   | 202/347-6093 | V3405 | 120   |
| DC | WASHINGTON       | 703/524-9214                                | B212A         | 120   | 202/347-3061 | B212A | 120   |
| DC | WASHINGTON       | 703/734-8370                                | B212A         | 120   | 202/347-6757 | B/V   | 120   |
| DC | WASHINGTON*      | 301/656-2726                                |               | 30    |              |       |       |
| DC | WASHINGTON*      | 301/657-1896                                |               | 30    |              |       |       |
| DC | WASHINGTON*      | 301/496-1994                                | FTS           | 15/30 |              |       |       |
| DC | WASHINGTON*      | 301/654-2540                                |               | 15    |              |       |       |
| DC | WASHINGTON*      | 301/492-1840                                | B202          | 120   |              |       |       |
| DC | WASHINGTON*      | 301/652-4466                                | B212A         | 120   |              |       |       |
| DC | WASHINGTON*      | 301/656-4773                                | V3405         | 120   |              |       |       |
| DC | WASHINGTON*      | 301/656-4774                                | B/V           | 120   |              |       |       |
| DE | WILMINGTON       | 302/658-5261                                | FX B          |       | 302/737-8550 |       |       |
| DE | WILMINGTON       | 302/658-8611                                | B212A         | 120   | 302/737-8883 | B/V   | 120   |
| FL | CLEARWATER       |                                             |               |       | 813/823-3223 |       |       |
| FL | DAYTONA BEACH    | 904/252-4481                                | FX B          |       |              |       |       |
| FL | FT LAUDERDALE    | 305/467-7550                                | FX B          |       | 305/764-8880 |       |       |
| FL | FT LAUDERDALE    | 305/467-3807                                | B212A         | 120   | 305/764-4505 | B/V   | 120   |
| FL | JACKSONVILLE     | 904/721-8100                                | B             |       | 904/356-0790 |       |       |
| FL | JACKSONVILLE     |                                             |               |       | 904/356-2264 | B/V   | 120   |
| FL | MIAMI            | 305/374-7120                                | B             |       | 305/371-4801 |       |       |
| FL | MIAMI            | 305/358-7271                                | B212A         | 120   | 305/371-4822 | B/V   | 120   |
| FL | ORLANDO          | 305/851-3530                                | (30 CPS ONLY) |       | 305/849-9600 |       |       |
| FL | ORLANDO          | 305/859-7670                                | B212A         | 120   | 305/422-4088 | B/V   | 120   |
| FL | PENSACOLA        | 904/434-0134                                | FX B          |       |              |       |       |
| FL | ST PETERSBURG    | 813/535-6441                                | B             |       | 813/823-3223 |       |       |
| FL | SARASOTA         | 813/365-3526                                | FX B212A      | 120   |              |       |       |
| FL | TAMPA            | 813/977-8032                                | B             |       | 813/224-9920 |       |       |
| FL | TAMPA            | 813/977-3891                                | B212A         | 120   | 813/223-1088 | B/V   | 120   |
| FL | W PALM BEACH     | 305/622-2871                                | FX B          |       |              |       |       |
| GA | ATLANTA          | 404/659-6670                                | B             |       | 404/577-8911 |       |       |
| GA | ATLANTA          | 404/581-0619                                | B212A         | 120   | 404/523-0834 | B/V   | 120   |
| GA | SAVANNAH         | 912/352-7259                                | FX B          |       |              |       |       |
| HI | HONOLULU         | CONTACT HAWAII TELEPHONE COMPANY FOR ACCESS |               |       |              |       |       |
| IA | CEDAR RAPIDS     | 319/363-2482                                | FX B          |       |              |       |       |
| IA | COUNCIL BLUFFS   |                                             |               |       | 402/341-7570 |       |       |
| IA | COUNCIL BLUFFS   |                                             |               |       | 402/341-7733 | B212A | 120   |
| IA | DES MOINES       | 515/288-6640                                | B             |       | 515/288-7163 |       |       |
| IA | DES MOINES       |                                             |               |       | 515/288-4408 | B/V   | 120   |
| IA | ICWA CITY        | 319/354-7371                                | FX B          |       |              |       |       |
| IA | WATERLOO         | 319/233-7227                                | B212A         | 120   |              |       |       |
| ID | BOISE            | 208/343-4851                                | B             |       | 208/344-7823 |       |       |
| ID | BOISE            | 208/344-4311                                | B212A         | 120   |              |       |       |
| IL | ARLINGTON HTS    |                                             |               |       | 312/372-4901 |       |       |
| IL | ARLINGTON HTS    |                                             |               |       | 312/263-3069 | B212A | 120   |
| IL | ARLINGTON HTS    |                                             |               |       | 312/726-1957 | V3405 | 120   |
| IL | CHAMPAIGN        |                                             |               |       | 217/384-0011 |       |       |

| ST | CITY            | TYMNET       | TYPE  | SPEED | TELENET      | TYPE  | SPEED |
|----|-----------------|--------------|-------|-------|--------------|-------|-------|
| IL | CHAMPAIGN       |              |       |       | 217/384-6428 | B/V   | 120   |
| IL | CHICAGO         | 312/346-4961 | B     |       | 312/372-4901 |       |       |
| IL | CHICAGO         | 312/368-4700 | B     |       |              |       |       |
| IL | CHICAGO         | 312/368-4607 | B     |       |              |       |       |
| IL | CHICAGO         | 312/641-1630 | B212A | 120   | 312/263-3069 | B212A | 120   |
| IL | CHICAGO         | 312/372-0391 | V3405 | 120   | 312/726-1957 | V3405 | 120   |
| IL | CICERO          |              |       |       | 312/372-4901 |       |       |
| IL | CICERO          |              |       |       | 312/263-3069 | B212A | 120   |
| IL | CICERO          |              |       |       | 312/726-1957 | V3405 | 120   |
| IL | E. ST. LOUIS    |              |       |       | 314/231-8800 |       |       |
| IL | E. ST. LOUIS    |              |       |       | 314/241-8150 | B/V   | 120   |
| IL | IRREEPORT       | 815/233-5585 | B     |       |              |       |       |
| IL | JOLIET          | 815/723-9854 | B212A | 120   |              |       |       |
| IL | OAK PARK        |              |       |       | 312/372-4901 |       |       |
| IL | OAK PARK        |              |       |       | 312/263-3069 | B212A | 120   |
| IL | OAK PARK        |              |       |       | 312/726-1957 | V3405 | 120   |
| IL | PEORIA          | 309/673-2156 | FX B  |       |              |       |       |
| IL | ROCKFORD        | 815/398-6090 | B     |       |              |       |       |
| IL | SKOKIE          |              |       |       | 312/372-4901 |       |       |
| IL | SKOKIE          |              |       |       | 312/263-3069 | B212A | 120   |
| IL | SKOKIE          |              |       |       | 312/726-1957 | V3405 | 120   |
| IL | SPRINGFIELD     | 217/753-7905 | B     |       | 217/753-1362 |       |       |
| IL | SPRINGFIELD     | 217/753-7900 | B212A | 120   | 217/753-1373 | B/V   | 120   |
| IL | URBANA          |              |       |       | 217/384-0011 |       |       |
| IL | URBANA          |              |       |       | 217/384-6428 | B/V   | 120   |
| IN | EVANSVILLE      | 812/423-6885 | FX B  |       |              |       |       |
| IN | FT WAYNE        | 219/424-5162 | FX B  |       |              |       |       |
| IN | INDIANAPOLIS    | 317/926-1253 | B212A | 120   | 317/634-5708 | B/V   | 120   |
| IN | INDIANAPOLIS    | 317/257-3461 | B     |       | 317/635-9630 |       |       |
| IN | MARION          | 317/662-0091 | FX B  |       |              |       |       |
| IN | MERRILLVILLE    | 219/769-7254 | FX B  |       |              |       |       |
| IN | MISHAWKA        |              |       |       | 219/234-9071 |       |       |
| IN | MISHAWKA        |              |       |       | 219/233-7105 | B/V   | 120   |
| IN | OSCEOLA         |              |       |       | 219/234-9071 |       |       |
| IN | OSCEOLA         |              |       |       | 219/233-7105 | B/V   | 120   |
| IN | SOUTH BEND      | 219/233-4163 | B     |       | 219/234-9071 |       |       |
| IN | SOUTH BEND      |              |       |       | 219/233-7105 | B/V   | 120   |
| KS | KANSAS CITY     | 913/677-2833 | B     |       | 816/474-1600 |       |       |
| KS | KANSAS CITY     | 913/677-0707 | B212A | 120   | 816/421-0375 | 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  |       |              |       |       |
| KS | WICHITA         | 316/265-1241 | B     |       |              |       |       |
| KS | WICHITA         | 316/264-7386 | B212A | 120   |              |       |       |
| KY | LEXINGTON       | 606/253-3463 | B     |       |              |       |       |
| KY | LEXINGTON       | 606/253-3498 | B212A | 120   |              |       |       |
| LA | SHREVEPORT      | 318/688-4666 | FX    | 120   |              |       |       |
| KY | LOUISVILLE      | 502/361-2645 | B212A | 120   | 502/589-5580 | B/V   | 120   |
| LA | BATON ROUGE     | 504/292-4050 | B     |       |              |       |       |
| LA | BATON ROUGE     | 504/292-2650 | B212A | 120   |              |       |       |
| LA | LAFAYETTE       | 318/235-3501 | FX B  |       |              |       |       |
| LA | NEW ORLEANS     | 504/586-1071 | B     |       | 504/524-0783 |       |       |
| LA | NEW ORLEANS     |              |       |       | 504/524-4094 | B212A | 120   |
| LA | NEW ORLEANS     | 504/524-4371 | B212A | 120   |              |       |       |
| LA | SHREVEPORT      | 318/688-4666 | FX    | 120   | B            |       |       |
| NH | CONCORD         |              |       |       | 603/224-8110 |       |       |
| MA | ARLINGTON       | 617/482-4677 | B     |       |              |       |       |
| MA | ARLINGTON       | 617/482-5622 | B     |       | 617/338-1400 |       |       |
| NH | NASHUA          |              |       |       | 603/431-2302 |       |       |
| MA | ARLINGTON       | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A | 120   |
| MA | ARLINGTON       | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405 | 120   |
| MA | BOSTON          | 617/482-4677 | B     |       |              |       |       |
| MA | BOSTON          | 617/482-5622 | B     |       | 617/338-1400 |       |       |
| MA | BOSTON          | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A | 120   |
| MA | BOSTON          | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405 | 120   |
| MA | BROOKLINE       | 617/482-4677 | B     |       |              |       |       |
| MA | BROOKLINE       | 617/482-5622 | B     |       | 617/338-1400 |       |       |
| MA | BROOKLINE       | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A | 120   |
| MA | BROOKLINE       | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405 | 120   |
| MA | CAMBRIDGE       | 617/482-4677 | B     |       |              |       |       |
| MA | CAMBRIDGE       | 617/482-5622 | B     |       | 617/338-1400 |       |       |
| MA | CAMBRIDGE       | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A | 120   |
| MA | CAMBRIDGE       | 617/482-1854 | V3405 | 120   | 617/336-7495 | V3405 | 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   |              |       |       |



| ST | CITY          | TYMNET       | TYPE  | SPEED | TELENET      | TYPE  | SPEED |
|----|---------------|--------------|-------|-------|--------------|-------|-------|
| MA | MFOFORD       | 617/482-4677 | B     |       |              |       |       |
| MA | NEUFORD       | 617/482-5622 | B     |       | 617/338-1400 |       |       |
| MA | MLOFORD       | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A | 120   |
| MA | MFOFORD       | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405 | 120   |
| MA | NEWTON        | 617/482-4677 | B     |       |              |       |       |
| MA | NEWTON        | 617/482-5622 | B     |       | 617/338-1400 |       |       |
| MA | NEWTON        | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A | 120   |
| MA | NEWTON        | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405 | 120   |
| MA | QUINCY        | 617/482-4677 | B     |       |              |       |       |
| MA | QUINCY        | 617/482-5622 | B     |       | 617/338-1400 |       |       |
| MA | QUINCY        | 617/482-3386 | B212A |       | 617/542-0754 | B212A | 120   |
| MA | QUINCY        | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405 | 120   |
| MA | SOMERVILLE    | 617/482-4677 | B     |       |              |       |       |
| MA | SOMERVILLE    | 617/482-5622 | B     |       | 617/338-1400 |       |       |
| MA | SOMERVILLE    | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A | 120   |
| MA | SOMERVILLE    | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405 | 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   | 617/542-0754 | B212A | 120   |
| MA | WALTHAM       | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405 | 120   |
| MA | WORCESTER     | 617/754-9451 | FX B  |       |              |       |       |
| MA | WORCESTER     | 617/755-5601 | B212A | 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   | 301/685-3339 | B/V   | 120   |
| MD | BETHESDA      | 703/841-0200 | B     |       | 202/347-1400 |       |       |
| MD | BETHESDA      | 703/524-9215 | B212A | 120   | 202/347-3061 | B212A | 120   |
| MD | BETHESDA      | 703/841-9330 | V3405 | 120   | 202/347-6093 | V3405 | 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   | 301/685-3339 | B/V   | 120   |
| MD | ROCKVILLE     | 703/841-0200 | B     |       | 202/347-1400 |       |       |
| MD | ROCKVILLE     | 703/524-9215 | B212A | 120   | 202/347-3061 | B212A | 120   |
| MD | ROCKVILLE     | 703/841-9330 | V3405 | 120   | 202/347-6093 | V3405 | 120   |
| 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 | V3405 | 120   |
| MD | TOWSON        | 301/547-8100 | B     |       | 301/962-5010 |       |       |
| MD | TOWSON        | 301/244-8959 | B212A | 120   | 301/685-3339 | B/V   | 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 | 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         | 313/732-7303 | B212A | 120   |              |       |       |
| MI | GRAND RAPIDS  | 616/459-5069 | FX B  |       |              |       |       |
| MI | GRAND RAPIDS  | 616/456-9092 | B212A | 120   |              |       |       |
| MI | JACKSON       | 517/787-9461 | B     |       |              |       |       |
| MI | KALAMAZOO     | 616/385-3150 | B     |       |              |       |       |
| MI | LANING        | 517/487-2040 | FX B  |       |              |       |       |
| MI | MANISTEE      | 616/723-8760 | FX B  |       |              |       |       |
| MI | PLYMOUTH      | 313/459-8900 | B     |       |              |       |       |
| MI | PLYMOUTH      | 313/459-8100 | B212A | 120   |              |       |       |
| MI | SOUTHFIELD    | 313/569-8350 | B     |       |              |       |       |
| MI | ST JOSEPH     | 616/429-2568 | FX B  |       |              |       |       |
| MI | TRAVERS CITY  | 616/946-0002 | FX B  |       |              |       |       |
| MI | DULUTH        |              |       |       | 218/722-0906 |       |       |
| MI | MANKATO       | 507/625-1684 | B212A | 120   |              |       |       |
| MI | MINNEAPOLIS   | 612/339-5200 | B     |       | 612/339-0150 |       |       |
| MI | MINNEAPOLIS   | 612/339-2415 | B212A | 120   | 612/338-3782 | B/V   | 120   |
| MI | ROCHESTER     | 507/282-3741 | B212A | 120   |              |       |       |
| MI | ST. PAUL      | 612/339-5200 | B     |       | 612/339-0150 |       |       |
| MI | ST. PAUL      | 612/339-2415 | B212A | 120   | 612/338-3782 | B/V   | 120   |
| MO | BRIDGETON     | 314/731-2304 | FX B  |       |              |       |       |
| MO | COLUMBIA      | 314/875-1150 | FX B  |       |              |       |       |
| MO | FLORISSANT    |              |       |       | 314/231-8800 |       |       |
| MO | FLORISSANT    |              |       |       | 314/241-8150 | B/V   | 120   |
| MO | JOPLIN        | 417/782-3037 | B212A | 120   |              |       |       |
| MO | KANSAS CITY   | 913/677-2833 | B     |       | 816/474-1600 |       |       |
| MO | KANSAS CITY   | 913/677-0707 | B212A | 120   | 816/421-0375 | B/V   | 120   |
| MO | SPRINGFIELD   | 417/831-0566 | B212A | 120   |              |       |       |
| MO | ST. JOSEPH    | 816/232-0624 | B212A | 120   |              |       |       |

| ST | CITY           | TYMNET       | TYPE          | SPEED | TELENET      | TYPE | SPEED |
|----|----------------|--------------|---------------|-------|--------------|------|-------|
| MO | ST LOUIS       | 314/421-5110 | B             |       | 314/231-8800 |      |       |
| MO | ST LOUIS       | 314/621-4660 | B212A         | 120   | 314/241-8150 | B/V  | 120   |
| MS | JACKSON        | 601/944-0860 | FX B          |       |              |      |       |
| 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   |              |      |       |
| NE | OMAHA          | 402/392-2970 | B             |       | 402/341-7570 |      |       |
| NE | OMAHA          |              |               |       | 402/341-7733 | B/V  | 120   |
| NC | CHARLOTTE      | 704/376-2545 | FX B          |       | 704/374-0371 |      |       |
| NC | CHARLOTTE      | 704/376-2544 | FX B212A      | 120   | 704/374-0839 | B/V  | 120   |
| NC | DAVIDSON       | 919/549-0441 | B             |       | 919/549-8311 |      |       |
| NC | DURHAM         | 919/549-0441 | B             |       | 919/549-8311 |      |       |
| NC | GREENSBORO     | 919/379-0034 | FX B          |       |              |      |       |
| NC | GREENSBORO     | 919/275-8231 | FX B212A      | 120   |              |      |       |
| NC | PALEIGH/DURHAM | 919/549-0441 | B             |       | 919/549-8311 |      |       |
| NC | PALEIGH/DURHAM | 919/832-6592 | FX B212A      | 120   |              |      |       |
| NC | RES. TRI. PARK | 919/549-0441 | B             |       | 919/549-8311 |      |       |
| NC | WINSTON-SALEM  | 919/725-1414 | B             |       | 919/761-1957 |      |       |
| NC | WINSTON-SALEM  | 919/725-9252 | B212A         | 120   | 919/725-2126 |      |       |
| NH | MANCHESTER     | 603/669-0493 | FX B          |       |              |      |       |
| NH | NASHUA         | 603/889-8618 | FX B          |       |              |      |       |
| 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        |              |               |       | 609/983-9650 |      |       |
| NJ | MARLTON        |              |               |       | 609/983-8351 | B/V  | 120   |
| NJ | MOORESTOWN     | 609/235-3761 | FX B          |       |              |      |       |
| NJ | NEWARK         | 201/483-5937 | B             |       | 201/623-6818 |      |       |
| NJ | NEWARK         | 201/483-4878 | B212A         | 120   | 201/623-0469 | B/V  | 120   |
| NJ | PASSAIC        |              |               |       | 201/278-5960 | B/V  | 120   |
| NJ | PATERSON       |              |               |       | 201/742-0858 |      |       |
| NJ | PATERSON       |              |               |       | 201/278-5960 | B/V  | 120   |
| NJ | PISCATAWAY     | 201/981-1900 | B             |       |              |      |       |
| NJ | PRINCETON      | 609/452-8970 |               |       |              |      |       |
| NJ | PRINCETON      | 609/452-8560 | B212A         | 120   |              |      |       |
| NJ | TRENTON        |              |               |       | 609/392-6101 |      |       |
| 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 | E             |       |              |      |       |
| NM | ALBUQUERQUE    |              |               |       | 505/243-7701 |      |       |
| NM | ALBUQUERQUE    | 505/842-6036 | B212A         | 120   | 505/243-4479 | B/V  | 120   |
| NV | BOULDER CITY   | 702/293-0300 | B             |       |              |      |       |
| NV | CARSON CITY    | 702/882-7810 | B             |       |              |      |       |
| NV | CARSON CITY    | 702/883-6546 | B212A         | 120   |              |      |       |
| NV | LAS VEGAS      | 702/293-0300 | FX B          |       | 702/733-2158 |      |       |
| NV | LAS VEGAS      |              |               |       | 702/737-6861 | B/V  | 120   |
| NV | RENO           | 702/882-7810 | B             |       |              |      |       |
| NV | RENO           | 702/883-6546 | B212A         | 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 | BUFFALO        | 716/856-1400 | E             |       | 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 | ELMIRA         | 607/737-9010 | B212A         | 120   |              |      |       |
| NY | HEMPSTEAD      | 516/794-3390 | FX B          |       | 516/292-0320 |      |       |
| NY | HEMPSTEAD      |              |               |       | 516/481-6012 | B/V  | 120   |
| NY | HUNTINGTON, LI | 516/673-5780 | FX B          |       |              |      |       |
| NY | NEW YORK       | 212/344-7445 | B             |       | 212/279-1000 |      |       |
| NY | NEW YORK       | 212/683-0131 | B             |       |              |      |       |
| NY | NEW YORK       | 212/350-9100 | B             |       | 212/736-0099 |      |       |
| NY | NEW YORK       | 212/551-9322 | B             |       |              |      |       |
| NY | NEW YORK       | 212/668-0130 | B212A         | 120   | 212/947-9600 | B/V  | 120   |
| NY | NEW YORK       | 212/532-8101 | B212A         | 120   |              |      |       |
| NY | NEW YORK       | 212/689-8910 | V3405         | 120   |              |      |       |
| NY | NEW YORK       | 212/684-6363 | V3405         | 120   |              |      |       |
| NY | NEW YORK       | 212/344-3392 | (30 CPS ONLY) |       |              |      |       |
| NY | NIAGARA FALLS  | 716/285-6691 | FX B          |       |              |      |       |
| NY | NIAGARA FALLS  | 716/285-3114 | FX B212A      | 120   |              |      |       |

| ST | CITY           | TYMNET       | TYPE     | SPEED | ELENET       | TYPE | SPEED |
|----|----------------|--------------|----------|-------|--------------|------|-------|
| NY | ROCHESTER      | 716/248-8000 | B        |       | 716/454-3430 |      |       |
| NY | ROCHESTER      | 716/248-8350 | B212A    | 120   | 716/454-1020 | B/V  | 120   |
| NY | SCHENECTADY    |              |          |       | 518/445-9111 |      |       |
| NY | SCHENECTADY    | 315/437-1117 | B212A    | 120   | 518/465-8444 | B/V  | 120   |
| NY | SYRACUSE       | 315/437-7111 | B        |       | 315/472-5503 |      |       |
| NY | SYRACUSE       |              |          |       | 315/472-5583 | B/V  | 120   |
| NY | TROY           |              |          |       | 518/445-9111 |      |       |
| NY | TROY           |              |          |       | 518/465-8444 | B/V  | 120   |
| NY | WHITE PLAINS   | 914/694-9361 | B        |       | 914/682-8777 |      |       |
| NY | WHITE PLAINS   | 914/694-8960 | B212A    | 120   | 914/946-3176 | B/V  | 120   |
| OH | AKRON          | 216/535-1861 | B        |       | 216/762-9791 |      |       |
| OH | CINCINNATI     | 513/891-7211 | B        |       | 513/621-7017 |      |       |
| OH | CINCINNATI     | 513/984-6064 | B212A    | 120   | 513/579-0390 | B/V  | 120   |
| OH | CLEVELAND      | 216/781-7050 | B        |       | 216/241-0940 |      |       |
| OH | CLEVELAND      | 216/861-5383 | B212A    | 120   | 216/696-4225 | B/V  | 120   |
| OH | COLUMBUS       | 614/421-7270 | B        |       | 614/463-1400 |      |       |
| OH | COLUMBUS       | 614/421-1650 | B212A    | 120   | 614/461-1853 | B/V  | 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 | PAPMA          |              |          |       | 216/241-0940 |      |       |
| OH | PARMA          |              |          |       | 216/696-4225 | B/V  | 120   |
| OH | TOLEDO         | 419/243-3144 | FX B     |       | 419/243-8871 |      |       |
| OH | TOLEDO         | 419/255-2946 | FX B212A | 120   |              |      |       |
| OH | YOUNGSTOWN     |              |          |       | 216/743-2296 |      |       |
| OH | YOUNGSTOWN     | 216/744-5326 | B212A    | 120   |              |      |       |
| OK | BETHANY        | 405/947-0561 | B        |       | 405/232-4550 |      |       |
| OK | BETHANY        | 405/949-0125 | B212A    | 120   | 405/232-4546 | B/V  | 120   |
| OK | NORMAN         | 405/947-0561 | B        |       | 405/232-4550 |      |       |
| OK | NORMAN         | 405/949-0125 | B212A    | 120   | 405/232-4546 | B/V  | 120   |
| OK | OKLAHOMA CITY  | 405/947-0561 | B        |       | 405/232-4550 |      |       |
| OK | OKLAHOMA CITY  | 405/949-0125 | B212A    | 120   | 405/232-4546 | B/V  | 120   |
| OK | TULSA          | 918/663-2220 | B        |       | 918/584-3215 |      |       |
| OK | TULSA          | 918/665-2750 | B212A    | 120   | 918/584-3247 | B/V  | 120   |
| OR | PORTLAND       | 503/231-4050 | B        |       | 503/243-2800 |      |       |
| OR | PORTLAND       | 503/231-4077 | B212A    | 120   | 503/243-2815 | B/V  | 120   |
| PA | ALLENTOWN      | 215/433-6131 | FX B     |       | 215/435-8268 |      |       |
| PA | ALLENTOWN      | 215/432-5926 | B212A    | 120   |              |      |       |
| PA | ERIE           | 814/453-7161 | B        |       |              |      |       |
| PA | HARRISBURG     | 717/236-1190 | FX B     |       |              |      |       |
| 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 | UPPER DARBY    |              |          |       | 215/574-0620 |      |       |
| PA | UPPER DARBY    |              |          |       | 215/574-9462 | B/V  | 120   |
| PA | VALLEY FORGE   | 215/666-9190 | B        |       |              |      |       |
| PA | YORK           | 717/846-4802 | FX B     |       |              |      |       |
| RI | PROVIDENCE     | 401/274-5783 | FX B     |       | 401/272-9290 |      |       |
| RI | PROVIDENCE     | 401/831-5566 | B212A    | 120   | 401/751-7912 | B/V  | 120   |
| RI | WARWICK        | 401/274-5783 | FX B     |       | 401/272-9290 |      |       |
| RI | WARWICK        | 401/831-5566 | B212A    | 120   | 401/751-7912 | B/V  | 120   |
| SC | COLUMBIA       | 803/252-0840 | FX B     |       |              |      |       |
| SC | GREENVILLE     | 803/271-2418 | FX B     |       |              |      |       |
| SD | PIERRE         |              |          |       | 605/224-6188 |      |       |
| TN | CHATTANOOGA    | 615/756-5856 | B        |       |              |      |       |
| TN | CHATTANOOGA    | 615/756-0561 | B212A    | 120   |              |      |       |
| TN | KNOXVILLE      | 615/637-3118 | FX B     |       |              |      |       |
| TN | KNOXVILLE      | 615/523-7458 | FX B212A | 120   |              |      |       |
| TN | MEMPHIS        | 901/529-0170 | B        |       | 901/525-2563 |      |       |
| TN | MEMPHIS        | 901/520-0183 | B212A    | 120   | 901/521-0215 | B/V  | 120   |
| TN | NASHVILLE      | 615/367-9382 | B        |       | 615/244-8310 |      |       |
| TN | NASHVILLE      |              |          |       | 615/244-5099 | B/V  | 120   |
| TN | NASHVILLE      | 615/361-7566 | B212A    | 120   |              |      |       |
| TX | AUSTIN         | 512/444-3280 | B        |       | 512/926-4360 |      |       |
| TX | AUSTIN         | 512/444-5800 | B212A    | 120   | 512/928-3560 | B/V  | 120   |
| TX | BAYTOWN        | 713/427-1123 | FX B     |       |              |      |       |
| TX | BEAUMONT       | 713/832-2589 | FX B     |       |              |      |       |
| TX | COPPUS CHRISTI | 512/882-3641 | FX B     |       |              |      |       |
| TX | DALLAS         | 214/638-8888 | B        |       | 214/748-0127 |      |       |
| TX | DALLAS         | 214/688-1444 | B212A    | 120   | 214/748-6371 | B/V  | 120   |
| TX | EL PASO        | 915/544-9590 | B        |       |              |      |       |

| ST | CITY           | TVMNET       | TYPE     | SPEED | TELENET      | TYPE | SPEED |
|----|----------------|--------------|----------|-------|--------------|------|-------|
| TX | EL PASO        | 915/532-1936 | B212A    | 120   |              |      |       |
| TX | FORT WORTH     | 214/263-4581 | FX B     |       | 817/336-7791 |      |       |
| TX | FORT WORTH     | 214/263-0278 | B212A    | 120   | 817/332-4307 | B/V  | 120   |
| TX | HOUSTON        | 713/785-4411 | B        |       | 713/224-3380 |      |       |
| TX | HOUSTON        | 713/977-4080 | B        |       |              |      |       |
| TX | HOUSTON        | 713/780-7390 | B        |       |              |      |       |
| TX | HOUSTON        | 713/780-7496 | V3405    | 120   |              |      |       |
| TX | HOUSTON        | 713/977-7671 | B212A    | 120   | 713/225-9359 | B/V  | 120   |
| TX | LACKLAND       |              |          |       | 512/227-7784 |      |       |
| TX | LACKLAND       |              |          |       | 512/227-0182 | B/V  | 120   |
| TX | LONGVIEW       | 214/758-1756 | FX B     |       |              |      |       |
| TX | LUBBOCK        | 806/762-0136 | FX B     |       |              |      |       |
| TX | MIDLAND        | 915/683-5645 | B        |       |              |      |       |
| TX | MIDLAND        | 915/683-9833 | B212A    | 120   |              |      |       |
| TX | ODESSA         | 915/563-3745 | FX B     |       |              |      |       |
| TX | SAN ANTONIO    | 512/696-4002 | B        |       | 512/227-7784 |      |       |
| TX | SAN ANTONIO    | 512/699-9627 | B212A    | 120   | 512/227-0182 | B/V  | 120   |
| UT | SALT LAKE CITY | 801/582-8972 | B        |       | 801/364-2644 |      |       |
| UT | SALT LAKE CITY | 801/582-6060 | B212A    | 120   |              |      |       |
| VA | CHESAPEAKE     |              |          |       | 804/625-8291 |      |       |
| VA | CHESAPEAKE     |              |          |       | 804/625-1186 | B/V  | 120   |
| VA | NEWPORT NEWS   | 804/596-5754 | FX B     |       |              |      |       |
| VA | NORFOLK        | 804/622-0435 | FX B     |       | 804/625-8291 |      |       |
| VA | NORFOLK        | 804/625-8301 | B212A    | 120   | 804/625-1186 | B/V  | 120   |
| VA | FORTSMOUTH     |              |          |       | 804/625-8291 |      |       |
| VA | FORTSMOUTH     |              |          |       | 804/625-1186 | B/V  | 120   |
| VA | RICHMOND       | 804/649-3050 | FX B     |       | 804/358-1941 |      |       |
| VA | VIRGINIA BEACH |              |          |       | 804/625-8291 |      |       |
| VA | VIRGINIA BEACH |              |          |       | 804/525-1186 | B/V  | 120   |
| VT | BURLINGTON     | 802/864-0054 | FX B212A | 120   |              |      |       |
| VT | MONTPELIER     |              |          |       | 802/229-4966 |      |       |
| WA | BELLEVUE       | 206/625-9937 | B212A    | 120   | 206/447-9012 |      |       |
| WA | BELLEVUE       | 206/625-9900 | B        |       | 206/447-9012 |      |       |
| WA | ENUMCLAW       | 206/825-6909 | FX B     |       |              |      |       |
| WA | OLYMPIA        | 206/943-4190 | FX B     |       |              |      |       |
| WA | RICHLAND       | 509/375-1975 | B        |       |              |      |       |
| WA | RICHLAND       | 509/375-3367 | B212A    | 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        |              |          |       | 509/455-7601 |      |       |
| WA | TACOMA         | 206/952-6800 | FX B     |       |              |      |       |
| WA | SPOKANE        | 509/838-8226 | B212A    | 120   | 509/455-4071 | B/V  | 120   |
| WI | APPLETON       | 414/734-9940 | FX B     |       |              |      |       |
| WI | EAU CLAIRE     | 715/834-7863 |          |       |              |      |       |
| WI | GREEN BAY      | 414/468-6808 | B212A    | 120   |              |      |       |
| WI | MADISON        | 608/221-4211 | B        |       | 608/251-5904 |      |       |
| WI | MADISON        |              |          |       | 608/257-5010 | B/V  | 120   |
| WI | MADISON        | 608/221-0891 | B212A    | 120   |              |      |       |
| WI | MILWAUKEE      | 414/257-3482 | B        |       | 414/271-2560 |      |       |
| WI | MILWAUKEE      | 414/257-1703 | B212A    | 120   | 414/271-3914 | B/V  | 120   |
| WI | NEENAH         | 414/722-5580 | FX V3405 | 120   |              |      |       |
| WI | OSHKOSH        | 414/235-4594 | FX B     |       |              |      |       |
| WV | CHARLESTON     | 304/345-2908 | FX B     |       |              |      |       |
| WV | CHARLESTON     | 304/522-6261 | FX B     |       |              |      |       |
| WY | CHEYENNE       |              |          |       | 307/778-2721 |      |       |

# THE NLM TECHNICAL BULLETIN

SEPTEMBER 1980

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| DATA BASE   | TOTAL RECORDS | DATES COVERED     | DATE LAST UPDATED | LATEST UPDATE TAG |
|-------------|---------------|-------------------|-------------------|-------------------|
| *AVLINE     | 9,125         | THROUGH 1980      | 05 SEP 80         |                   |
| *BIOETHICS  | 10,192        | JAN 73-DEC 79     | 05 AUG 80         | 8008(EM)          |
| *CANCERLIT  | 219,728       | JAN 63-JUL 80     | 12 AUG 80         | 8006(EM)          |
|             |               |                   | 12 AUG 80         | 8007(EM)          |
| *CANCERPROJ | 17,467        | 1976-1980         | 21 JUL 80         | 8007(EM)          |
| *CATLINE    | 202,125       | THROUGH 1980      | 05 SEP 80         |                   |
| CHEMLINE    | 460,406       |                   | 17 JUL 80         |                   |
| *CLINPROT   | 1,669         |                   | 15 OCT 79         | 7909(EM)          |
| *EPILEPSY   | 25,635        | 1945-PRESENT      | 16 SEP 79         |                   |
| *HEALTH     | 153,460       | JAN 75-SEP 80     | 11 AUG 80         | 8009(EM)          |
| *HISTLINE   | 40,655        |                   | 07 JUL 80         | 8004(EM)          |
| MEDLINE     | 578,392       | JAN 78-OCT 80     | 08 SEP 80         | 8010(EM)          |
| +MED77      | 253,234       | JAN 77-DEC 77     | 08 DEC 79         |                   |
| +MED75      | 642,953       | JAN 75-DEC 76     | 08 DEC 79         |                   |
| +MED72      | 669,106       | JAN 72-DEC 74     | 08 DEC 79         |                   |
| +MED69      | 668,258       | JAN 69-DEC 71     | 08 DEC 79         |                   |
| +MED66      | 501,802       | JAN 66-DEC 68     | 08 DEC 79         |                   |
| MESH VOC    | 36,266        | 1980              | 18 AUG 80         |                   |
| *NAME AUTH  | 112,216       |                   | 08 SEP 80         |                   |
| RTECS       | 40,967        | 1978 ED.-APR 80   | 12 JUN 80         |                   |
| SDILINE     | 22,044        | OCT 80            | 08 SEP 80         |                   |
| *SERLINE    | 35,075        | 1980              | 28 JUL 80         |                   |
| TDB         | 2,517         |                   | 04 AUG 80         |                   |
| TOXLINE     | 376,930       |                   | 25 AUG 80         | 8008(EM)          |
| CBAC        | 186,871       | 1977-VOL 32(2)    |                   |                   |
| TOXBIB      | 64,207        | 1977-SEP 80       |                   |                   |
| IPA         | 16,729        | 1977-VOL 17(9-10) |                   |                   |
| HEEP        | 35,972        | 1977-SEP 80       |                   |                   |
| PESTAB      | 9,135         | 1977-AUG 80       |                   |                   |
| EMIC        | 28,036        | 1960-DEC 79       |                   |                   |
| ETIC        | 18,299        | 1950-MAR 79       |                   |                   |
| RPROJ       | 17,681        | 1978-SEP 80       |                   |                   |
| +TOXBACK74  | 275,506       |                   | 26 FEB 78         |                   |
| CBAC        | 147,332       | 1974-1976         |                   |                   |
| TOXBIB      | 65,433        | 1974-1976         |                   |                   |
| IPA         | 17,582        | 1974-1976         |                   |                   |
| HEEP        | 37,198        | 1974-1976         |                   |                   |
| PESTAB      | 7,961         | 1974-1976         |                   |                   |
| +TOXBACK65  | 387,377       |                   | 26 FEB 78         |                   |
| CBAC        | 196,015       | 1965-1973         |                   |                   |
| TOXBIB      | 112,170       | 1968-1973         |                   |                   |
| IPA         | 21,973        | 1970-1973         |                   |                   |
| 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

PLEASE QUERY THE ONLINE NEWS FILES DAILY FOR SPECIAL NOTICES AND MESSAGES

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

BIOETHICS (Manual 21.7) - The following is a compilation of vocabulary changes for BIOETHICS. Terms dated 10/80 will be operational with the 1981 MeSH; others are in effect now. Please make note of the DELETION and CHANGE in MeSH mapping as no class maintenance is done for BIOETHICS and therefore you must search both ways to retrieve all the citations of both topics. Appropriate annotations should be made to Appendix B, Part 21.7, of the BIOETHICS chapter in the Manual.

NEW TERMS

| <u>Entry date</u> | <u>Bioethics term</u>    | <u>MeSH term</u>         |
|-------------------|--------------------------|--------------------------|
| 10/80             | ATOMIC WARFARE           | SAME                     |
| 1979              | CHILDBIRTH               | LABOR                    |
| 10/80             | FREEZING                 | SAME                     |
| 4/80              | GENETIC MOTHERS          | NONE                     |
| 4/80              | GHOST SURGERY            | NONE                     |
| 4/80              | HEROIN                   | DIACETYLMORPHINE         |
| 1979              | IATROGENIC DISEASE       | SAME                     |
| 4/80              | INTERNSHIP AND RESIDENCY | SAME                     |
| 1979              | MICROBIOLOGY             | SAME                     |
| 1979              | NUCLEAR ENERGY           | ATOMIC ENERGY            |
| 10/80             | NURSE MIDWIVES           | SAME                     |
| 8/80              | OPHTHALMOLOGY            | SAME                     |
| 10/80             | OVUM                     | SAME                     |
| 8/80              | PHARMACISTS              | SAME                     |
| 10/80             | RAPE                     | SAME                     |
| 1979              | TARDIVE DYSKINESIA       | DYSKINESIA, DRUG-INDUCED |
| 1979              | TRADE SECRETS            | NONE                     |
| 10/80             | ZYGOTE                   | SAME                     |

DELETION

10/80 FROZEN SEMEN to locate records entered before 10/80 on this subject, search on FROZEN SEMEN; to retrieve records entered from 10/80 on, use FREEZING and SPERM.

CHANGE IN MeSH MAPS

BRAIN PATHOLOGY old map: BRAIN (to 1980)  
new map: BRAIN INJURIES (1981-)

- CORRECTION,  
DSM - In the August 1980 issue of the Technical Bulletin, two of the headings on the tables of mental disorders beginning on page 15 should read DSM II and DSM III instead of DSM I and DSM II.
- MeSH TOOLS - The following 1981 MeSH tools are now available from NTIS:
- |                       |             |                |
|-----------------------|-------------|----------------|
| Annotated MeSH, 1981  | PB80-203342 | Price: \$15.00 |
| Tree Structures, 1981 | PB80-203334 | Price: \$10.50 |
- USER ASSISTANCE - When searchers send terminal printouts or copies to the MEDLARS Management Section for assistance with problems, please include the name of the computer (NLM or SUNY) and the data base as well as the day, time, and ID code.
- PHONES LIST - Appendix A is an updated list of the phone numbers which may be used to access NLM and SUNY. Please check this list to see if your area has any phone number changes or additions. Please remember that NLM absorbs the cost of using either the TYMNET or TELENET networks and that you are free to use either when they are available in your city or area.
- CLINPROT (Manual Part 18) - A revised Manual chapter for CLINPROT was sent out to all Bulletin recipients. Please replace your January 1980 CLINPROT chapter with this revised chapter. Entries in the index for the Manual may now be wrong because of renumbering in this revised chapter.
- TB INDEX - Appendix B is a revised index to the NLM Technical Bulletin, issues January 1978 through June 1980.

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NLM DATABASE USERS' EDUCATIONAL NEEDS PROFILE  
Faith Van Toll  
Associate Director, KOM Regional Medical Library Network

## INTRODUCTION

In the Spring of 1979, an "NLM Database Users' Educational Needs Profile" was distributed with the NLM Technical Bulletin. This profile was developed by the Standing Committee for Online Retrieval Education (SCORE) to gather information on the educational needs of NLM database users. While over 1,000 profiles were submitted to NLM, only 909 profiles could be included in the data analysis. Over 100 profiles were rejected because the responses could not be tabulated. If a user gave the same ranking number to more than one item in a question or if the respondent used check marks rather than numbers for marking purposes, the profile was excluded from the data analysis. The results of the survey have been tabulated and are summarized below.

## USER PROFILE

Responses were received from all sections of the country, with the largest response from the West Coast states and the Mid-Atlantic states. This distribution of responses parallels the distribution of NLM online centers. So, just as 15% of all MEDLINE Centers are in the Mid-Atlantic states almost the same proportion of survey responses were from the Mid-Atlantic states (18%). Responses from the Northwestern states, where there are fewest MEDLINE Centers (3% of all centers), equalled 4% of all responses. Geographically, then, the responses provide an adequate cross-section of online users.

Most users come from either an academic (39%) or hospital environment (30%) and usually are reference/computer search librarians (49%) or else are responsible for all library functions (29%). Most respondents (85%) stated that their primary professional training was in library or information science. Less than 8% had their primary training in biology or chemistry.

## SEARCH PROFILE

The most frequently run searches are comprehensive searches with quick (sample citations) searches next in frequency. Eighty-five percent of all respondents spend less than 30% of their total work time searching NLM databases. The significance of this figure could have been determined if the total time spent on all database searching had been included in the survey. Over half of all respondents have received some type of formal NLM/UCLA training.

## NLM UPDATES

Within the past two years, 95% of all respondents have either attended an NLM update or else were so recently trained that an update was inappropriate. The most important topics for updates are those related to search efficiency/optimization and search strategies. These topics include search capabilities, database changes, new databases, and special file searching. Multiple locations for updates are preferred. The significance of scheduling updates in conjunction with other meetings is obscure because location/affiliation questions were not asked independently of one another.

## CONTINUING EDUCATION COURSES

The emphasis placed on search efficiency/optimization and search strategy as update topics is repeated in the choices for technical continuing education (CE) courses. The first four choices in potential topics (search optimization, free text searching, NLM indexing, special files) as well as the first four items in additional topics (special files, multiple database searching, specific searching, comparative database searching) are all facets of search efficiency/optimization and search strategy. The most frequently requested subject areas for CE courses are: pharmacology/toxicology, anatomy, cardiology, immunology, and diagnosis/therapeutics. Additional subject topics requested included neoplasia, occupational health, chemistry, biochemistry, and environmental health.

While there is a definite preference for one day updates, there is no clear-cut preference as to the length of either a CE course or a combined CE/update program. Over 70% of all respondents would attend either an update or a CE course offered over part of a weekend.

## SPECIAL USER POPULATIONS

Because concern has often been expressed about the need to provide special programs within updates for various user groups such as hospital librarians, pharmaceutical librarians, etc., the data for specific user groups were compared with the over-all data. The specific groups examined were: affiliation (academic, association, commercial, government, hospital, research), occupational responsibility (responsible for all functions, acquisitions, administration, archives, audiovisual, cataloging, circulation, extramural, interlibrary loan, reference, serials), type of search (comprehensive, current awareness, sample citations, verification), training (trained, not trained). In almost all instances the responses of the individual groups matched the responses of the total population. Variations occurred only within the preferences for technical CE courses or subject CE courses and these variations were slight.

## DATA RESULTS AND SCORE

As indicated earlier, the primary purpose of the profile was to provide a frame of reference for SCORE in its development of continuing education programs for NLM database users. The only major difference in the data results and the assumptions that SCORE members had been working from occurs in the concepts about special user groups. It had been assumed that specific user groups would report preferences different from those of the total population. The fact that the preferences are the same means that planning for the total population should meet the needs of all user groups and that specialized programs are not essential. The topic preferences for both technical and subject CE courses had been accurately anticipated by SCORE. The MLA CE Course 54 (neoplasia) had been developed as well as a MLA CE Course on Search Optimization (this course was tested at MLA in June). A psychology course and a toxicology course will be tested in the fall. Immunology and health administration courses are being developed.

The profile results show that SCORE's overview of the on-going educational needs of NLM database users has been accurate. The activities of SCORE, then, can continue in their current direction with the assurance that programs that have been developed or are currently being developed will meet the needs of NLM database users.

\*\*\*\*\*

MONTHLY HINT: SEARCHING NURSING TOPICS

Several searchers at the NLM Users' Group Meeting held at the 1980 Medical Library Association Annual Meeting requested advice about searching nursing topics in the NLM data bases. This article offers some general suggestions for such searches.

The first step in preparing a subject search is to collect possible search terms. In MEDLINE the first place to look is in the Medical Subject Headings (MeSH) thesaurus. A glance at the Permuted MeSH shows that there are 67 entries under the terms NURSE, NURSES, and NURSING. That is, there are 67 MeSH terms containing one of these words:

- NURSE**
- CLINICAL NURSE SPECIALISTS *see* NURSE CLINICIANS
- NURSE ANESTHETISTS
- NURSE CLINICIANS
- NURSE MIDWIVES
- NURSE-PATIENT RELATIONS
- NURSE PRACTITIONERS
- NURSERIES**
- HOSPITAL NURSERIES *see* NURSERIES, HOSPITAL
- NURSERIES
- NURSERIES, HOSPITAL
- NURSERY**
- NURSERY SCHOOLS *see* SCHOOLS, NURSERY
- SCHOOLS, NURSERY
- NURSES'**
- AMERICAN NURSES' ASSOCIATION
- INTERNATIONAL COUNCIL OF NURSES *see* under SOCIETIES, NURSING
- NURSES
- NURSES' AIDES
- NURSES, MALE
- VISITING NURSES *see* COMMUNITY HEALTH NURSING
- NURSING**
- COMMUNITY HEALTH NURSING
- ECONOMICS, NURSING
- EDUCATION, NURSING
- EDUCATION, NURSING, ASSOCIATE
- EDUCATION, NURSING, BACCALAUREATE
- EDUCATION, NURSING, CONTINUING
- EDUCATION, NURSING, DIPLOMA PROGRAMS
- EDUCATION, NURSING, GRADUATE
- ETHICS, NURSING
- FACULTY, NURSING
- GERIATRIC NURSING
- HISTORY OF NURSING
- HOME NURSING
- HOSPITAL NURSING SERVICE *see* NURSING SERVICE, HOSPITAL
- HOSPITAL NURSING STAFF *see* NURSING STAFF, HOSPITAL
- INDUSTRIAL NURSING *see* OCCUPATIONAL HEALTH NURSING
- LEGISLATION, NURSING
- LIBRARIES, NURSING
- LICENSURE, NURSING
- MILITARY NURSING
- NURSING
- NURSING ASSESSMENT *see* under NURSING PROCESS
- NURSING AUDIT
- NURSING CARE
- NURSING DIAGNOSIS *see* NURSING ASSESSMENT
- NURSING ETHICS *see* ETHICS, NURSING
- NURSING, HOME *see* HOME NURSING
- NURSING HOMES
- NURSING, MILITARY AND NAVAL *see* MILITARY NURSING
- NURSING, PRACTICAL
- NURSING, PRIVATE DUTY
- NURSING PROCESS
- NURSING RECORDS
- NURSING SERVICE, HOSPITAL
- NURSING SERVICES
- NURSING STAFF
- NURSING STAFF, HOSPITAL
- NURSING, SUPERVISORY
- NURSING, TEAM
- OBSTETRICAL NURSING
- OCCUPATIONAL HEALTH NURSING
- OFFICE NURSING
- OPERATING ROOM NURSING
- PEDIATRIC NURSING
- PHILOSOPHY, NURSING
- PRIMARY NURSING CARE
- PSYCHIATRIC NURSING
- PUBLIC HEALTH NURSING
- SCHOOL NURSING
- SCHOOLS, NURSING
- SKILLED NURSING FACILITIES
- SOCIETIES, NURSING
- SPECIALTIES, NURSING
- STUDENTS, NURSING
- SURGICAL NURSING

Twenty-one of these terms may be searched at once using the term ALL NURS: (MH) but that will also include references to three NURSER... terms. You may wish, instead, to use the terms ALL NURSES: (MH) OR ALL NURSING: (MH) to eliminate the nurseries/nursery, and pick up the NURSE... terms using an explosion of the term NURSES. This provides access to the terms NURSE ANESTHETISTS, NURSE CLINICIANS, NURSE MIDWIVES and NURSE PRACTITIONERS. Once these groupings have been performed, you will need to collect the remaining MeSH terms that do not begin with the characters NURSES or NURSING, and the term NURSE-PATIENT RELATIONS. Using the Permuted MeSH list as a guide, select your other nursing

terms. Next, you will want to consider the subheading NURSING. This is intended to cover the nursing aspects of some other topic. For example HEART DISEASES/nursing would be used to describe an article that discusses the nursing care required by patients who have various heart diseases. If you will be using terms that do not relate directly to nursing, because your search is limited to the nursing care required by certain groups of patients or the nursing aspects of certain procedures, you may wish to AND your broad subject terms with the free-floating subheading: 5 AND NU (SH) in order to retrieve the nursing aspects. Finally, you may wish to consider the use of Text Words. Text Word searching would be particularly helpful if you need to include procedures not specifically mentioned in MeSH, or new professional vocabulary not yet accommodated by the thesaurus.

Once you have collected search terms, you might want to limit your retrieval to nursing journals. Remember that nursing journals in MEDLINE can be divided into two groups: those that are indexed for Index Medicus, and those that are indexed only for the International Nursing Index (their citations do not appear in Index Medicus). To limit retrieval to non-Index Medicus nursing journals, you need only use the Special List Indicator: 5 AND N (LI). But if you do use the Special List Indicator and also wish to include references to the 21 Index Medicus nursing journals, you will have to OR their Title Abbreviations or Journal Title Codes together as well:

SS 5 /C?  
USER:

(JC) Ø2P OR 3MW OR 6JR OR DNT OR G2V OR GS8 OR GTP OR HAP OR

PROG:  
CONT 5-  
USER:

KS2 OR H3L OR JD7 OR JEL OR JTB OR LKE OR OA1 OR O92 OR O95 OR

PROG:  
CONT 5-  
USER:

O9H OR O9K OR OZT OR RAQ OR N (LI)

Your next search statement would AND together your subject retrieval with the results of SS 5. A list of Journal Title Codes or Title Abbreviations can be retrieved from the SERLINE file searching for NURSING (JD) AND IM (AI) AND OPEN.

You may decide to use the SAVESEARCH or STORESEARCH capability to keep groups of subject search terms or journal titles handy if you use them often. Remember that while a SAVESEARCH may be used for online retrieval, a STORESEARCH can only be used in an OFFSEARCH, and that in either case all desired terms must be pulled together in the last search statement.

The HEALTH (Health Planning and Administration) file may also contain many items relevant to a nursing search. The SAVESEARCH capability could be used to keep the terms from your MEDLINE search so that they could then be applied to the HEALTH file:

PROG:  
SEARCH SET FROM SS 1 SAVED AS 'NURSING TERMS'.

SS 4 /C?  
USER:  
FILE HEALTH

PROG:  
YOU ARE NOW CONNECTED TO THE HEALTH PLANNING & ADMIN FILE.

SS 1 /C?  
USER:  
NURSING TERMS (SN)

PROG:  
SS (1) PSTG (69)

If you wish to eliminate MEDLINE citations from the HEALTH retrieval, combine with the Special List Indicator for the HEALTH file: 1 AND H (LI).

You might also consider other NLM data bases that contain nursing material. For example, in the AVLINE file, use the NURSING (RD) indicator to find audio-visual items for the nursing audience. Search the CATLINE file for references to books, the BIOETHICS file for social issues involving nursing, HISTLINE for the history of nursing, and CANCERLIT for articles dealing with the nursing care of cancer patients.

\*\*\*\*\*

NEW SERIALS ANNOUNCEMENT - AUGUST 1980  
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 DESCRIPTIVE PSYCHOLOGY  
1 DEC 1980--  
JAI PRESS  
GREENWICH CT UNITED STATES  
JAI PRESS, P.O. BOX 1678, 165 WEST PUTNAM  
AVENUE, GREENWICH, CT 06830,  
TELE:(203)661-7602.  
ON ORDER  
A13730000  
\$32.50

ADVANCES IN THE MANAGEMENT OF  
CARDIOVASCULAR DISEASE  
1,1980--  
YEAR BOOK MEDICAL PUBLISHERS  
CHICAGO UNITED STATES  
IN PROCESS  
A14360000

AMERICAN SOCIETY FOR MICROBIOLOGY NEWS  
1980--  
AMERICAN SOCIETY FOR MICROBIOLOGY  
BIRMINGHAM AL UNITED STATES  
ON ORDER  
A25840000

ARZT IM KRANKENHAUS  
33N1, 1980--  
PERIMED VERLAG DR. MED. D. STRAUPE  
CONTINUES ARZT IM KRANKENHAUS UND IM  
GESUNDHEITSWESEN.  
ERLANGEN GERMANY, WEST  
IN PROCESS  
A68852000

IM CHINESE JOURNAL OF MICROBIOLOGY AND  
IMMUNOLOGY  
13,1980--  
CHINESE SOCIETY OF MICROBIOLOGY AND  
IMMUNOLOGY  
CONTINUES CHINESE JOURNAL OF MICROBIOLOGY.  
TAIPEI TAIWAN  
IN PROCESS  
C18882000

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

EUROPEAN CONGRESS OF OBSTETRIC ANAESTHESIA  
AND ANALGESIA  
1ST,1979--  
ELSEVIER/NORTH-HOLLAND BIOMEDICAL PRESS  
AMSTERDAM NETHERLANDS  
IN PROCESS  
E15750000

FOUNDATIONS AND PHILOSOPHY OF SCIENCE AND  
TECHNOLOGY  
1979-  
PERGAMON PRESS  
ELMSFORD NY UNITED STATES  
NO PROSPECT 800813  
F13150000

GIORNALE ITALIANO DI PATOLOGIA E SCIENZE  
AFFINI  
25N1,GEN/APR 1979--  
CEM EDITRICE  
CONTINUES GIORNALE ITALIANO DI PATOLOGIA E  
DI SCIENZE AFFINI.  
PARMA ITALY  
IN PROCESS  
G08730000

GOVERNMENT PUBLICATIONS REVIEW. PART A:  
RESEARCH ARTICLES  
7A,1980?--  
PERGAMON PRESS  
CONTINUES GOVERNMENT PUBLICATIONS REVIEW.  
ELMSFORD NY UNITED STATES  
IN PROCESS  
G10485000

GOVERNMENT PUBLICATIONS REVIEW. PART B:  
ACQUISITIONS GUIDE TO SIGNIFICANT  
GOVERNMENT PUBLICATIONS  
7B,1980?--  
PERGAMON PRESS  
CONTINUES GOVERNMENT PUBLICATIONS REVIEW.  
ELMSFORD NY UNITED STATES  
IN PROCESS  
G10487000

JOURNAL OF RECEPTOR RESEARCH  
1,1980--  
MARCEL DEKKER  
NEW YORK UNITED STATES  
IN PROCESS  
J36850000  
\$36.00

METHODS IN LABORATORY MEDICINE  
1,1980--  
PRAEGER  
EASTBOURNE EAST ENGLAND  
SUSSEX  
HOLT-SAUNDERS, 1 ST. ANNES ROAD,  
EASTBOURNE, EAST SUSSEX BN21 3UN, U.K.  
IN PROCESS  
M32690000

PELVIC SURGEON  
IN1, APR 1980--  
NORTHERN CHESAPEAKE PUBLISHERS  
BALTIMORE UNITED STATES  
THE PELVIC SURGEON, P.O. BOX 98, RIDERWOOD,  
MD 21139  
IN PROCESS  
P07007000  
\$75.00

PROGRESS IN HORMONE BIOCHEMISTRY AND  
PHARMACOLOGY  
1,1980--  
EDEN MEDICAL RESEARCH  
ST. ALBANS VT UNITED STATES  
EDEN MEDICAL RESEARCH INC., PO BOX 51, ST.  
ALB  
ON ORDER  
P47910000

RADIOLOGY REVIEW  
1,1980--  
NOYES DATA CORP  
PARK RIDGE, N. J. UNITED STATES  
NOYES DATA CORPORATION, PARK RIDGE, NJ 07656  
W1 RA354R  
R01750000





# THE NLM TECHNICAL BULLETIN

OCTOBER 1980

NO. 138

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### ENCLOSURES:

NEW DESCRIPTORS IN 1981 MESH

MESH TREE NUMBER CHANGES - 1981

CATALOGING SUBHEADING ADDITIONS, CHANGES,  
AND DELETIONS - 1981

NLM TECHNICAL BULLETIN - OCT 80

| DATA BASE   | TOTAL RECORDS | DATES COVERED         | DATE LAST UPDATED | LATEST UPDATE TAG |
|-------------|---------------|-----------------------|-------------------|-------------------|
| *AVLINE     | 9,236         | THROUGH 1980          | 06 OCT 80         |                   |
| *BIOETHICS  | 10,192        | JAN 73-DEC 79         | 05 AUG 80         | 8008(EM)          |
| *CANCERLIT  | 229,289       | JAN 63-SEP 80         | 30 SEP 80         | 8008(EM)          |
| *CANCERPROJ | 17,467        | 1976-1980             | 21 JUL 80         | 8007(EM)          |
| *CATLINE    | 203,041       | THROUGH 1980          | 26 SEP 80         |                   |
| CHEMLINE    | 472,761       |                       | 16 SEP 80         |                   |
| *CLINPROT   | 1,952         |                       | 06 OCT 80         | 8008(EM)          |
| *EPILEPSY   | 31,539        | 1945-PRESENT          | 29 SEP 79         |                   |
| *HEALTH     | 155,853       | JAN 75-OCT 80         | 13 SEP 80         | 8010(EM)          |
| *HISTLINE   | 40,655        |                       | 07 JUL 80         | 8004(EM)          |
| MEDLINE     | 599,289       | JAN 78-NOV 80         | 06 OCT 80         | 8011(EM)          |
| +MED77      | 253,234       | JAN 77-DEC 77         | 08 DEC 79         |                   |
| +MED75      | 642,953       | JAN 75-DEC 76         | 08 DEC 79         |                   |
| +MED72      | 669,106       | JAN 72-DEC 74         | 08 DEC 79         |                   |
| +MED69      | 668,258       | JAN 69-DEC 71         | 08 DEC 79         |                   |
| +MED66      | 501,802       | JAN 66-DEC 68         | 08 DEC 79         |                   |
| MESH VOC    | 36,727        | 1980                  | 29 SEP 80         |                   |
| *NAME AUTH  | 112,216       |                       | 08 SEP 80         |                   |
| RTECS       | 42,389        | 1978 ED.-SEP 80       | 22 SEP 80         |                   |
| SDILINE     | 20,950        | NOV 80                | 06 OCT 80         |                   |
| *SERLINE    | 35,752        | 1980                  | 26 SEP 80         |                   |
| TDB         | 2,547         |                       | 11 SEP 80         |                   |
| TOXLINE     | 393,799       |                       | 29 SEP 80         | 8009(EM)          |
| CBAC        | 197,438       | 1977-VOL 32(5)        |                   |                   |
| TOXBIB      | 66,082        | 1977-OCT 80           |                   |                   |
| IPA         | 17,545        | 1977-VOL 17(11,13,14) |                   |                   |
| HEEP        | 37,040        | 1977-OCT 80           |                   |                   |
| PESTAB      | 9,431         | 1977-SEP 80           |                   |                   |
| EMIC        | 28,036        | 1960-DEC 79           |                   |                   |
| ETIC        | 18,299        | 1950-MAR 79           |                   |                   |
| RPROJ       | 19,928        | 1978-NOV 80           |                   |                   |
| +TOXBACK74  | 275,506       |                       | 26 FEB 78         |                   |
| CBAC        | 147,332       | 1974-1976             |                   |                   |
| TOXBIB      | 65,433        | 1974-1976             |                   |                   |
| IPA         | 17,582        | 1974-1976             |                   |                   |
| HEEP        | 37,198        | 1974-1976             |                   |                   |
| PESTAB      | 7,961         | 1974-1976             |                   |                   |
| +TOXBACK65  | 387,377       |                       | 26 FEB 78         |                   |
| CBAC        | 196,015       | 1965-1973             |                   |                   |
| TOXBIB      | 112,170       | 1968-1973             |                   |                   |
| IPA         | 21,973        | 1970-1973             |                   |                   |
| HEEP        | 29,662        | 1971-1973             |                   |                   |
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 Bethesda, Maryland 20209

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

TDB - The Toxicology Data Bank (TDB) was updated on September 11 at NLM and on September 22 at SUNY with the addition of 247 completed compounds. The number of full records is now 2,034, with a total of 2,547 records in the data base. A list of names of all 2,547 TDB records is available on written request from Toxicology Data Bank, Specialized Information Services, National Library of Medicine, Bethesda, Maryland, 20209.

RTECS - The RTECS file was regenerated at NLM (September 22) and at SUNY (October 1) and now contains records for 42,389 compounds. With this regeneration, some entries in the status field have been changed from NCI to NTP in order to reflect the change in the administration of the Carcinogenesis Bioassay Program from the National Cancer Institute (NCI) to the National Toxicology Program (NTP). For the most part, information on completed bioassays is still present with the designation "NCI", while current and projected bioassays are designated "NTP". To retrieve all carcinogenesis information from the RTECS status field, one should use both NCI and NTP as search terms.

YEAR END PROCESSING - It was announced with the November 1979 Technical Bulletin in the 1980 Update Schedule that the January 1981 update would occur on December 8. This update will occur on December 15 instead of December 8.

- Enclosed with this Bulletin are some of the 1981 MeSH changes. The lists included are:

- (1) New Descriptors in 1981 MeSH
- (2) MeSH Tree Number Changes - 1981
- (3) Cataloging Subheading Additions, Changes, and Deletions - 1981

Other lists which were included in past years are not being included with the Bulletin for 1981 as they appear in the 1981 Annotated MeSH and Trees, which are now available from NTIS (earlier than in past years).

- Following is the schedule for year end processing:

November 3 - MEDLINE and SDILINE will be updated with December 1980 data at NLM and SUNY.

November 17 - December SDILINE at NLM will be replaced with another December SDILINE which has been file maintained to reflect 1981 MeSH and all stored searches will be executable online. SUNY will remain unchanged.

December 15 - MEDLINE and SDILINE will be updated with January 1981 data at NLM and SUNY. All files will have been file maintained to reflect 1981 MeSH and MEDLINE will have been regenerated to transfer 1978 data to MED77 (BACK77). Stored searches will no longer be executable online.

- Appendix A is a schedule for updating for MEDLINE, TOXLINE, and CANCERLIT for 1981.

PRICE  
CHANGES  
(Manual 1.6)

- As previously announced, effective October 1, 1980, TOXLINE, TOXBACK65, and TOXBACK74 connect time and page charges will increase to \$21/non-prime hour, \$28/prime time hour, and \$0.27 per offprint page. The charges for CHEMLINE will not increase as previously announced but will remain at the prices quoted for July 1, 1980. Those are as follows: \$13/non-prime hour, \$20/prime time hour, and \$0.21 per offprint page. These prices include a royalty fee in addition to our regular \$8 non-prime and \$15 prime connect hour charges, i.e., \$8 or \$15 connect hour + \$X royalty charge = \$Y total charge.

PROFILE AND  
NEW COMMANDS  
(Manual 4.9.3A,  
4.9.17A, &  
4.9.22)

- Articles in the February and March Technical Bulletin (pg. 5-7, pg. 4-5 respectively) described the PROFILE command and other recently added commands such as DISPLAY, SAVE, SAVESEARCH. Also, Manual replacement pages were enclosed with the February Technical Bulletin. If you need further instructions for using PROFILE and other new commands, use the EXPLAIN command to see detailed explanations. For example:

EXPLAIN PROFILE

EXPLAIN SAVESEARCH

EXPLAIN DISPLAY

1981 TOOLS

- The written order department of NTIS did not receive the PB stock numbers for the 1981 tools until Monday, September 22. The phone order department had the stock numbers when we announced the tools were available. If your order was returned by the NTIS written order department, please re-order.

HOLIDAY  
SCHEDULE

- HOLIDAY SCHEDULE FOR 1981

| <u>HOLIDAY</u>                          | <u>DATE</u>   | <u>NLM</u> | <u>SUNY</u> |
|-----------------------------------------|---------------|------------|-------------|
| New Years Day                           | Thurs, Jan 1  | DOWN       | DOWN        |
| George Washington's B'day<br>(Observed) | Mon, Feb 16   | UP*        | UP*         |
| Memorial Day (Observed)                 | Mon, May 25   | DOWN       | UP*         |
| Memorial Day (Observed)                 | Fri, May 29   | UP         | DOWN        |
| Independence Day (Observed)             | Fri, Jul 3    | DOWN       | DOWN        |
| Labor Day                               | Mon, Sep 7    | DOWN       | DOWN        |
| Columbus Day                            | Mon, Oct 12   | UP*        | UP*         |
| Veterans' Day                           | Wed, Nov 11   | UP*        | UP*         |
| Thanksgiving                            | Thurs, Nov 26 | DOWN       | DOWN        |
| Christmas                               | Fri, Dec 25   | DOWN       | DOWN        |

\*Non-prime rates are in effect all day.

CANCERLIT  
UPDATE

- CANCERLIT was updated at NLM for the months of August and September 1980 with 9,561 records on September 30, 1980. The total records in the file are 229,289. There is only one entry month for this two-month update: 8008 (EM). Automatic SDI searches will be processed against this two-month update.

CLINPROT  
UPDATE

- The CLINPROT data base was updated with 283 records on October 6, 1980. The update tag is 8008 (EM) and the total records in the data base are 1,952.

\*\*\*\*\*

AVLINE UPDATE - OCTOBER 1980  
 Alice E. Jacobs, Technical Services Division, NLM

I. STATUS REPORT

AVLINE now contains over 9,000 citations. Category A, or educational, items comprise 79.5% of the data base; Category B, or lecture, items comprise 20.5% of the file.

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

| Subject       | Total in AVLINE | % of File |
|---------------|-----------------|-----------|
| Preclinical   | 851             | 9.29      |
| Clinical      | 6,421           | 70.09     |
| Dental        | 669             | 7.30      |
| Nursing       | 668             | 7.29      |
| Miscellaneous | 552             | 6.03      |

II. SEARCHING HINT - DATE OF REVIEW (DR) FIELD

Category A, educational, items that undergo the appraisal process conducted for the library by the Association of American Medical Colleges (AAMC) are added to the AVLINE data base prior to review and are identified by the Review Data (RD) tag "PENDING." (Category B, or lecture, items are identified by the Review Data (RD) tag "NONE" and are not reviewed.) When review results are received at NLM for Category A "PENDING" items, the AVLINE records are updated with full rating and audience level information and critical summary.

The Date of Review (DR) field in AVLINE represents the date the review process was completed; it is directly searchable and printable. A search using this Date of Review (DR) tag, entered as YYYY, allows the user to specify a review period of interest. This search strategy is particularly useful to identify recently reviewed Category A items. It is important to note that, in many cases, a search of this Date of Review (DR) field combined with the Review Data (RD) tags for ratings will retrieve a larger number of postings than a search combining a recent Date of Entry (DA) and the Review Data (RD) rating tags. This difference in retrieval is due to the fact that titles are added to AVLINE prior to review and newly added citations are not likely to have been updated with review results. The following sample search illustrates this point.

SS 1 /C?  
USER:  
all 8008: (da)  
PROG:  
SS (1) PSTG (121)

SS 2 /C?  
USER:  
1 and recommended (rd)  
PROG:  
#NONE-

SS 2 /C?  
USER:  
1 and not recommended (rd)  
PROG:  
#NONE-

SS 2 /C?  
USER:  
1 and highly recommended (rd)  
PROG:  
#NONE-

SS 2 /C?  
USER:  
1 and pending (rd)  
PROG:  
SS (2) PSTG (75)

SS 3 /C?  
USER: -  
1 and none (rd)  
PROG:  
SS (3) PSTG (43)

SS 4 /C?  
USER:  
8008 (dr)  
PROG:  
SS (4) PSTG (93)

SS 5 /C?  
USER:  
4 and recommended (rd)  
PROG:  
SS (5) PSTG (50)

SS 6 /C?  
USER:  
4 and highly recommended (rd)  
PROG:  
SS (6) PSTG (19)

SS 7 /C?  
USER:  
4 and not recommended (rd)  
PROG:  
SS (7) PSTG (24)

Recent DA combined with RD tags retrieves no records because . . .

. . . most of the items are still pending, or . . .

. . . are in Category B, and therefore are not reviewed.

A search of the DR field combined with RD tags for ratings provides a substantial retrieval of recently reviewed items.

\*\*\*\*\*

MONTHLY HINT: SEARCHING FOR ABSTRACTS IN MEDLINE AND HEALTH

Here is a reminder on how to search for abstracts in MEDLINE and HEALTH PLANNING & ADMINISTRATION data bases.

MEDLINE

Abstracts are taken from the published articles; NLM does not create them. Beginning with 1981 indexing, the limit will be raised from 200 to 250 words for inclusion; abstracts of a greater length will not be entered in the data base.

1. To search for the availability of abstracts in the data base, combine your search strategy with the indicator for an abstract, AUTHOR (AA).

USER:  
6 AND AUTHOR (AA)

2. If you wish to provide your patron with English language articles and foreign language articles for which English abstracts are available in the published version (but not necessarily in the data base), combine the language tag strategy with the indicator for published abstract availability:

USER:  
10 AND ENG (LA) OR 10 AND ENGLISH ABSTRACT (MH)

For online searching, be sure to stringsearch the LA field if your retrieval is 200 citations or fewer; however, for OFFSEARCH, always "and" your strategy with language tags, MeSH Headings, etc.

NOTE: The ENGLISH ABSTRACT MeSH Heading is not included on English language article citations.

3. If you desire to search for abstracts in the data base for foreign language citations, you will have to combine ENGLISH ABSTRACT (MH) with the abstract indicator tag, AUTHOR (AA), as follows:

USER:  
10 AND ENGLISH ABSTRACT (MH) AND AUTHOR (AA)

HEALTH PLANNING & ADMINISTRATION

All of the above MEDLINE discussion also applies to HEALTH. However, HEALTH has one additional value that is valid in the AA field: AAMC. The Association of American Medical Colleges (AAMC) selects approximately 200 citations per year in the field of health care management/administration which are included in HEALTH. If no abstract is in the data base for these selected citations, then AAMC supplies an abstract and the value AAMC is entered in the AA field to denote the responsibility for the abstract. Therefore, to retrieve all citations in HEALTH that have an abstract in the data base, search as follows:

USER:  
6 AND AUTHOR (AA) OR 6 AND AAMC (AA)

\*\*\*\*\*



NEW SERIALS ANNOUNCEMENT - SEPTEMBER 1980  
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.

ACCOMPLISHMENTS IN CANCER RESEARCH  
1979--  
LIPPINCOTT  
PHILADELPHIA UNITED STATES  
IN PROCESS  
A03230000

ACTA CLINICA ODONTOLOGICA  
1, 1979--  
SOCIEDAD ANTIOQUENA DE ENDODONCISTAS  
MEDELLIN COLOMBIA  
IN PROCESS  
A05000000

ADVANCES IN CELLULAR NEUROBIOLOGY  
1, 1980--  
ACADEMIC PRESS  
NEW YORK UNITED STATES  
IN PROCESS  
A13520000

ADVANCES IN NEUROGERONTOLOGY  
1, 1980--  
PRAEGER PUBLISHERS  
NEW YORK UNITED STATES  
IN PROCESS  
A14615000

AUDIOLOGISCHE AKUSTIK. AUDIOLOGICAL  
ACOUSTICS  
19N1, 1980--  
MEDIAN-VERLAG  
CONTINUES ZEITSCHRIFT FUR  
HOERGEREATE-AKUSTIK. JOURNAL OF  
AUDIOLOGICAL TECHNIQUE.  
HEIDELBERG GERMANY, WEST  
IN PROCESS  
A74530000

DERMATOLOGY AND ALLERGY  
3N3, 1980--  
DIDACTIC  
CONTINUES DERMATOLOGY.  
EVANSTON IL UNITED STATES  
IN PROCESS  
D05910000

ENDODONTIC BIBLIOGRAPHY - AMERICAN  
ASSOCIATION OF ENDODONTISTS  
4, 1979?--  
AMERICAN ASSOCIATION OF ENDODONTISTS  
CONTINUES REPRINT CATALOGUE; AMERICAN  
ASSOCIATION OF ENDODONTISTS.  
INDIANAPOLIS IN UNITED STATES  
IN PROCESS  
E07250000

GERIATRIC NURSING  
1, MAY/JUNE 1980--  
AMERICAN JOURNAL OF NURSING COMPANY  
NEW YORK UNITED STATES  
555 WEST 57TH ST., NEW YORK, NY 10019  
ON ORDER  
G05600500  
\$18.00

GERONTOLOGY AND GERIATRICS EDUCATION  
1, SEPT 1980--  
UNIVERSITY OF TEXAS PRESS  
AUSTIN TX UNITED STATES  
ON ORDER  
G06149000

HOSPITAL SAFETY INFORMATION SERVICE  
1, MAR/APR 1979--  
SCIENTIFIC ENTERPRISES  
NORTH LITTLE ROCK UNITED STATES  
AR  
ON ORDER  
H19969000

HOW TO GET HELP FOR KIDS  
1980--  
GAYLORD PROFESSIONAL PUBLICATIONS  
SYRACUSE NY UNITED STATES  
IN PROCESS  
H21050000

IMPRESSIONS  
1, 1979--  
ORANGE COUNTY DENTAL SOCIETY  
ORANGE CA UNITED STATES  
ORANGE COUNTY DENTAL SOCIETY, 295 S.  
FLOWER, ORANGE, CA 92668  
ON ORDER  
I06620100  
\$10.00

JOURNAL OF THE AMERICAN MEDICAL RECORD  
ASSOCIATION  
51N4, AUG 1980--  
AMERICAN MEDICAL RECORD ASSOCIATION  
CONTINUES MEDICAL RECORD NEWS.  
CHICAGO UNITED STATES  
AMERICAN MEDICAL RECORD ASSOCIATION, SUITE  
1850, 875 N. MICHIGAN AVE. CHICAGO, IL 60611  
ON ORDER  
J11896000

JOURNAL OF RURAL COMMUNITY PSYCHOLOGY  
SPRING, 1980--  
CALIFORNIA COLLEGE OF PROFESSIONAL  
PSYCHOLOGY  
FRESNO CA UNITED STATES  
ON ORDER  
J37690000

LIBRARY OF GENERAL PRACTICE  
1, 1980--  
CHURCHILL LIVINGSTONE  
EDINBURGH SCOTLAND  
IN PROCESS  
L07150000

MEDICAL JOURNAL, UNIVERSITY OF TORONTO  
56N4, APR 1979--  
MEDICAL SOCIETY OF THE UNIVERSITY OF TORONTO  
CONTINUES UNIVERSITY OF TORONTO MEDICAL  
JOURNAL.  
TORONTO CANADA  
IN PROCESS  
M15255000

MEDICAL TRIBUNE  
21N5, 1980?--  
MEDICAL TRIBUNE  
CONTINUES MEDICAL TRIBUNE AND MEDICAL NEWS.  
NEW YORK UNITED STATES  
641 LEXINGTON AVENUE, NEW YORK, N.Y. 10022  
IN PROCESS  
M18900200

NESTLE FOUNDATION PUBLICATION SERIES  
N1, 1980--  
HANS HUBER PUBLISHERS  
BERN SWITZERLAND  
IN PROCESS  
N11850000

NURSING AND HEALTH CARE  
JUL/AUG 1980--  
NURSING AND HEALTH CARE  
WESTPORT CT UNITED STATES  
ON ORDER  
N34830000

PEDIATRIA MEDICA E CHIRURGICA. MEDICAL AND  
SURGICAL PEDIATRICS  
1, 1979--  
PEDIATRIA MEDICA E CHIRURGICA  
VICENZA ITALY  
LA PEDIATRIA MEDICA E CHIRURGICA, PIAZZA  
MARCONI, 5 - 36100 VICENZA, ITALY  
IN PROCESS  
P06050000

PHYSICIANS DRUG ALERT  
1, MAY 1980--  
M. J. POWERS AND COMPANY  
NEW YORK UNITED STATES  
ON ORDER  
P14455000

PRACTICAL METHODS IN CLINICAL IMMUNOLOGY  
SERIES  
1, 1980--  
CHURCHILL LIVINGSTONE  
EDINBURGH SCOTLAND  
IN PROCESS  
P21605000

PSYCHOLOGY INFORMATION GUIDE SERIES  
1, 1979--  
GALE RESEARCH COMPANY  
DETROIT UNITED STATES  
GALE RESEARCH COMPANY, BOOK TOWER, DETROIT,  
MI 48226  
IN PROCESS  
P55270000

REACTIONS  
1980?--  
ADIS PRESS  
NEW YORK UNITED STATES  
ON ORDER  
R04990000

TODAYS NURSING HOME  
1, MAY/JUNE 1980--  
MCKNIGHT MEDICAL COMMUNICATIONS, INC  
NORTHFIELD IL UNITED STATES  
MCKNIGHT MEDICAL COMMUNICATIONS, INC. 550  
FRONTAGE RD. SUITE 386, NORTHFIELD IL 60093  
ON ORDER  
T11376000

TRANSPORT IN THE LIFE SCIENCES  
1, 1960--  
WILEY  
NEW YORK UNITED STATES  
IN PROCESS  
T19090000

DATA BASE UPDATE SCHEDULE FOR 1981

| <u>UPDATE MONTH</u> | <u>UPDATED<br/>MEDLINE AND SDILINE<br/>AVAILABLE</u> | <u>UPDATED<br/>CANCERLIT<br/>AVAILABLE</u> | <u>UPDATED<br/>TOXLINE<br/>AVAILABLE</u> |
|---------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------|
| JAN                 | DEC 15                                               | JAN 17                                     | JAN 24                                   |
| FEB                 | JAN 5                                                | FEB 21                                     | FEB 28                                   |
| MAR                 | FEB 9                                                | MAR 21                                     | MAR 28                                   |
| APR                 | MAR 9                                                | APR 18                                     | APR 25                                   |
| MAY                 | APR 6                                                | MAY 16                                     | MAY 23                                   |
| JUN                 | MAY 4                                                | JUN 20                                     | JUN 27                                   |
| JUL                 | JUN 8                                                | JUL 18                                     | JUL 25                                   |
| AUG                 | JUL 6                                                | AUG 15                                     | AUG 22                                   |
| SEP                 | AUG 3                                                | SEP 19                                     | SEP 26                                   |
| OCT                 | SEP 8*                                               | OCT 17                                     | OCT 24                                   |
| NOV                 | OCT 5                                                | NOV 21                                     | NOV 21*                                  |
| DEC                 | NOV 9                                                | DEC 19                                     | DEC 19*                                  |

\*Modified due to holiday.



## NEW DESCRIPTORS IN 1981 MESH

For 1981, there are 80 major descriptors and 45 minor descriptors that are completely new to MESH since the 1980 edition. They are given here in two lists:

- 1) An alphabetic list of descriptors with their tree numbers, scope notes, annotations, history notes, online notes, major descriptor mappings for minor descriptors ("see under" cross references), entry terms ("see" cross references), and "see related" cross references.
- 2) A list of descriptors by MeSH Tree Structures subcategories.

These new descriptors are in the 1981 Annotated Alphabetic MeSH New Medical Subject Headings list with corresponding suggested descriptors for searching the concept online in previous years.

In addition to these new descriptors, there are 100 major descriptors and 37 minor descriptors new for 1981 that replace directly corresponding deleted descriptors. For example, the 1981 descriptor NEUROTIC DISORDERS was NEUROSES in 1980, but NEUROSES may still be used for indexing and MEDLINE searching because it is being retained as an entry term ("see" cross reference) to NEUROTIC DISORDERS, the descriptor under which citations will appear in Index Medicus starting in 1981. Also included is PHOTOTHERAPY replacing LIGHT/therapeutic use.

In the 1981 Annotated Alphabetic MeSH, these replacements with their corresponding deleted descriptors comprise the New Medical Subject Headings Replacing Deleted Headings list. They are also included in the Deleted Medical Subject Headings list, along with deleted descriptors that are not being replaced by directly corresponding new descriptors, with their replaced-by descriptors. In both lists, those deleted descriptors that may still be used as MEDLINE search terms, in place of their corresponding replaced-by descriptors, are identified.



# MEDICAL SUBJECT HEADINGS

## NEW DESCRIPTORS IN 1981 MESH

### ADOLESCENT BEHAVIOR

F 1145 22

Any observable response or action of an adolescent only /drug eff, check also tag ADOLESCENCE

81

X BEHAVIOR, ADOLESCENT

### AFFECTIVE DISORDERS

F 3709 438 100

Long standing illnesses characterized by either sustained or intermittent disturbance in mood with no psychotic features, such as delusions, hallucinations, etc

human only, do not use /drug eff /physiol /rad eff, do not confuse with ALLICITIVE SYMPTOMS read MeSH definitions & follow text

81, AFFECTIVE DISTURBANCES was heading 1969-80

search AFFECTIVE DISTURBANCES under AFFECTIVE SYMPTOMS 1969-80

XU CYCLOTHYMIC DISORDER

### AFFECTIVE DISORDERS, PSYCHOTIC

F 709 680 80

Disorders in which the essential feature is a severe disturbance in mood (depression, anxiety, elation, and excitement) accompanied by psychotic symptoms such as delusions, hallucinations, gross impairment in reality testing, etc

do not use /drug eff /physiol /rad eff

81 DEPRESSION, REACTIVE, PSYCHOTIC was see under PSYCHOSES 1977-80, AFFECTIVE DISTURBANCES was heading 1969-80

use AFFECTIVE DISORDERS, PSYCHOTIC to search DEPRESSION, REACTIVE, PSYCHOTIC back thru 1977, search AFFECTIVE DISTURBANCES under AFFECTIVE SYMPTOMS 1969-80

X DEPRESSION, REACTIVE, PSYCHOTIC

X PSYCHOSES, AFFECTIVE

XU MANIC DISORDER

### ALPHAVIRUSES

B4 909 777 923 54

A genus of Togaviridae, also known as Group A arboviruses, serologically related to each other but not to other Togaviridae. The viruses are transmitted by mosquitoes. The type species is the Sindbis virus.

one of the Togaviridae, do not use /blood-csf-urine /cytol, infection coord NIM with TOGAVIRUS INFECTIONS (IM)

81, was see ARBOVIRUSES 1978-80

search ARBOVIRUSES 1978-80

X ARBOVIRUSES, GROUP A

XU ENCEPHALITIS VIRUS, EASTERN EQUINE

XU ROSS RIVER VIRUS

### AMBYSTOMA MEXICANUM

B2 90 608 80 68 325

An axolotl form found in Mexican mountain lakes and accounts for about 30 percent of the urodeles used in research.

usually NIM no qualif, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol

81

see under AMBYSTOMA

X AXOLOTL, MEXICAN

### AMBYSTOMATIDAE

B2 90 608 80

A family of the class Urodela which includes 4 living genera, about 33 species and occurs only in North America. Adults are usually terrestrial, but the larval forms are aquatic.

usually NIM no qualif, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol

81

X SALAMANDER, MOLE

ANGEL DUST ABUSE see PHENCYCLIDINE ABUSE

F3 709 597 780 610 560

### ANGIOSTRONGYLUS

B1 500 294 433 514 112

A genus of parasitic nematodes of the superfamily Metastrongyloidea. Two species, *A. cantonensis* and *A. vasorum*, infest the lungs of rats and dogs respectively. *A. cantonensis* is transmissible to man where it causes frequently fatal infection of the central nervous system.

do not use /blood-csf-urine, infection coord NIM with NEMATODE INFECTIONS (IM)

(81)

see under METASTRONGYLOIDEA

### ANTIGENS, IMMUNE RESPONSE

D24 611 216 705 55

Antigens coded for by the immune response (I<sub>r</sub>) genes (in the mouse), they are found on B-lymphocytes, macrophages, epidermal cells and sperm and are thought to mediate the competence of and cellular cooperation in the immune response. The human I<sub>r</sub> antigens are called HLA-D antigens. Synonyms: Ia-like antigens.

only /admin /adv eff /anal /csf /class /immunol /isol /rad eff /stand /tox /urine, /genet permitted but consider also GENES, IMMUNE RESPONSE

81

X HLA-D ANTIGENS

X IA ANTIGENS

X IMMUNE RESPONSE ANTIGENS

### ANURA

B2 90 180

An order of the class Amphibia, which includes several families of frogs and toads. They are characterized by well developed hind limbs adapted for jumping, fused head and trunk and webbed toes. The term 'toad' is ambiguous and is properly applied only to the family Bufonidae.

usually NIM no qualif, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol

81, FROGS & TOADS were headings 1964-80

use ANURA to search FROGS & TOADS back thru 1966

X BOMBINA

X FROGS AND TOADS

X SALIENTIA

X TOAD, FIRE-BELLIED

X TOADS AND FROGS

ARBOVIRUSES, GROUP A see ALPHAVIRUSES

B4 909 777 923 54

ARBOVIRUSES, GROUP B see FLAVIVIRUSES

B4 909 777 923 377

## ARCHAEBACTERIA

D11.107

A proposed group of organisms phylogenetically distinct from the eubacteria. They are characterized by 1) the presence of characteristic rRNAs and ribosomal RNAs, 2) the absence of peptidoglycan cell walls, 3) the presence of ether linked lipids built from branched-chain subunits, and 4) their occurrence in unusual habitats. The group encompasses three distinct subgroups: the METHANOGENS, the extreme halophiles (HALOBACTERIACEAE, HALOBACTERIUM), and the extreme thermoacidophiles (THERMOPLASMA and Sulfolobus)

do not use /blood-csf-urine

(81)

see under BACTERIA

## ARENAVIRUS INFECTIONS

C2.782.82

Virus diseases caused by the Arenaviridae

81

## ASCITES SHUNT, PERITONEOVENOUS see PERITONEOVENOUS SHUNT

F4.752.814.750

E4.765.790

## ASIAN AMERICANS

I1.880.143.522.50

M1.194.50

M1.403.50

Persons living in the United States having origins in any of the original peoples of the Far East, Southeast Asia, or the Pacific Islands. Does not include Indian subcontinent.

US residents of Asiatic culture or origin; restrict Asian to Far East, Southeast Asia, Pacific Islands; does not include India; only /class /hist /psychol; despite X refs specify NIM CHINA /ethnol, JAPAN /ethnol or other Asiatic country with /ethnol when pertinent

81

X CHINESE AMERICANS

X JAPANESE AMERICANS

## ATELLES see CEBIDAE

B2.649.801.201.370

## AUTONOMIC NERVOUS SYSTEM DISEASES

C10.120

autonomic dysfunction goes here but consider also DYSAUTONOMIA, FAMILIAL, DF. ANS DIS

81 was AUTONOMIC SYSTEM DISEASES (NON MESH) before 1981

note: term over 30 characters

XU SHY-DRAGER SYNDROME

## AXOLOTL, MEXICAN see AMBYSTOMA MEXICANUM

B2.90.608.80.68.525

## BARRETT ESOPHAGUS

C6.306.102

C16.131.314.102

Ectopic gastric mucosa in the lower esophagus that often becomes ulcerated (Barrett ulcer), leading to stricture formation (ESOPHAGEAL STENOSIS).

note categ; do not use /congen

81

see under ESOPHAGEAL DISEASES

X ESOPHAGUS, BARRETT

## BEHAVIOR, ADOLESCENT see ADOLESCENT BEHAVIOR

F1.145.22

## BILE CANALICULI

A3.159.183.158.125

A3.620.150.125

Minute intercellular channels that occur between liver cells and carry bile towards interlobar bile ducts. Also called bile capillaries.

also called 'bile capillaries'

(81), was see BILE DUCTS, INTRAHEPATIC 1980

search BILE DUCTS, INTRAHEPATIC 1980

see under BILE DUCTS, INTRAHEPATIC

## BILE REFLUX

C6.130.140

Reflux of bile mainly into the upper digestive tract, but also into the pancreas.

81

see under BILIARY TRACT DISEASES

## BLINKING

G11.561.730.127

G11.697.182

Brief closing of the eyelids; either normal periodic closing, as a protective measure, or by voluntary action.

only /drug eff /rad eff; voluntary & involuntary blinking, winking goes here

81

X REFLEX, BLINK

X REFLEX, CORNEAL

## BLOOD, ARTIFICIAL see BLOOD SUBSTITUTES

D19.461.140

## BLOOD SUBSTITUTES

D19.461.140

Substances that can carry oxygen to and carbon dioxide away from the tissue when introduced into the blood stream, used to replace hemoglobin in severe hemorrhage, also to perfuse isolated organs, the best known are perfluorocarbon emulsions and various hemoglobin solutions. Synonyms artificial erythrocytes, artificial hemoglobin

carry O2 to & CO2 from tissue see MeSH definition, do not confuse with PLASMA SUBSTITUTES which replace plasma; D25-26 qualif

81, was see PLASMA SUBSTITUTES 1961-80

search PLASMA SUBSTITUTES 1966-80

X BLOOD, ARTIFICIAL

X ERYTHROCYTE SUBSTITUTES

X HEMOGLOBIN SUBSTITUTES

X RED CELL SUBSTITUTES

XR FLUOROCARBONS

XR PLASMA SUBSTITUTES

## BOMBINA see ANURA

B2.90.180

## BORDERLINE PERSONALITY DISORDER

F3.709.597.90

A disorder characterized by instability in several areas--interpersonal relationships, marked shifts in mood, and uncertainty about identity issues--which causes impairment in social or occupational functioning or subjective distress

'borderline' is a psychiatric diag follow text, do not use /drug eff /physiol /rad eff

(81)

note term over 30 characters

see under PERSONALITY DISORDERS

X PERSONALITY DISORDER, BORDERLINE

## BRIQUET SYNDROME see SOMATOFORM DISORDERS

F3.709.438.710

## BULIMIA see HYPERPHAGIA

F3.126.72.208

## BUNYAVIRIDAE

B4.909.777.147

A family of viruses, mainly arboviruses, consisting of a single strand of RNA. Virions are enveloped particles 90-100 nm diameter. So far there is only one genus, Bunyavirus, also known as the Bunyamwera supergroup.

the Bunyamwera supergroup goes here; do not use /blood-csf-urine /cytol, infection = BUNYAVIRUS INFECTIONS

81

XU APEU VIRUS

XU BUNYAMWERA GROUP VIRUSES

XU CALIFORNIA GROUP VIRUSES

XU CAPIM GROUP VIRUSES

XU CONGO VIRUS

XU GUAMA GROUP VIRUSES

XU PAPPATACI FEVER VIRUS

XU RIFT VALLEY FEVER VIRUS

XU SIMBU GROUP VIRUSES

## BUNYAVIRUS INFECTIONS

C2.782.147

Virus diseases caused by the Bunyaviridae.

81

## CALLITHRIX

B2.649.801.201.280.262

A genus of Callithricidae occurring in forests of Brazil and Bolivia and containing eight species. They are C. jacchus (common marmoset), C. argentata (black-tailed marmoset), C. chrysoleuca (yellow-legged or golden marmoset), C. aurita (white-eared marmoset), C. flaviceps (buff-headed marmoset), C. penicillata (black-pencilled or black-eared marmoset), C. geoffroyi (white fronted or Geoffrey's marmoset) and C. santaremensis (Santarem marmoset) usually NIM, no qualif, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol /surg

(81)

see under CALLITHRICIDAE

X CALLITHRIX JACCHUS

X HAPALE

X MARMOSET, COMMON

X MARMOSET, SHORT-TUSKED

## CALLITHRIX JACCHUS see CALLITHRIX

B2.649.801.201.280.262



## CANDIDIASIS, CHRONIC MUCOCUTANEOUS

C1 703 160 165  
C17 838 208 165

C1 703 295 165

Clinical syndrome characterized by development, usually in infancy or childhood, of a chronic, often widespread candidiasis of skin, nails, and mucous membranes. May be secondary to one of the immunodeficiency syndromes, inherited as an autosomal recessive trait, or associated with defects in cell mediated immunity, endocrine disorders, dental stomatitis, or malignancy do not bother to coord with CANDIDA or CANDIDA ALBICANS

(81)

note term over 30 characters  
see under CANDIDIASIS

## CANNABIS ABUSE

F3 709 597 780 610 200

The excessive use of cannabis with associated psychological symptoms and impairment in social or occupational functioning

'excess use of cannabis with assoc psychol sympt & impairment in social or occup functioning', see note on CANNABIS above, do not use /chem ind /drug eff /physiol /rad eff

81

X MARIHUANA ABUSE

## CARDIOMYOPATHY, CHAGAS see CHAGAS CARDIOMYOPATHY

C3 752 935 885 190

C14 280 600 190

## CATARRHINA see CERCOPITHECIDAE

B2 649 801 201 468

## CEBIDAE

B2 649 801 201 370

The family of new world monkeys consisting of 11 genera and many species. They inhabit forests from Mexico to Argentina and are the largest family of South American monkeys. The genera are ALOUATTA (howler monkey), AOTUS (night or owl monkey), Ateles (spider monkey), Brachyteles (woolly spider monkey), Cacajao (ukaris), Callicebus (tit or widow monkey), CEBUS (capuchin monkey), Chiropotes (red-backed sakis), Lagothrix (woolly monkey), Pithecia (sakis) and SAIMIRI (squirrel monkey)

usually NIM no qualif, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol /surg

X ATELES  
X LAGOTHRUX  
X MONKEY, SPIDER  
X MONKEY, WOOLLY  
X MONKEYS, NEW WORLD  
X PLATYRRHINA  
XU ALOUATTA  
XU AOTUS TRIVIRGATUS  
XU CEBUS  
XU SAIMIRI

## CEBUS

B2 649 801 201 170 320

A genus of the family Cebidae consisting of four species which are divided into two groups, the tufted and tuftless. C. apella has tufts of hair over eyes and sides of the head. The remaining species are without tufts - C. capucinus, C. nigrivittatus, and C. albifrons. Cebus occurs in forests of Central and South America

usually NIM no qualif, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol /surg

(81)

see under CEBIDAE  
X MONKEY, CAPUCHIN  
X MONKEY, RING-TAIL

## CERCOPITHECIDAE

B2 649 801 201 468

The family of old world monkeys and baboons consisting of 14 genera and many species. They occur in Africa and part of Asia. The genera are MACACA (macaques), Cercopithecus (mangabeys), PAPIO (baboons, hamadryas, mandrills and drills), THEROPITHECUS (gelada baboon), Cercopithecus Miopithecus (talapoin monkey), Allenopithecus (Allen's monkey), ERYTHROCEBUS PATAS (patas monkey), Presbytis (langur), Pygathrix (douc langur), Rhinopithecus, Simias, Nasalis (proboscis monkey) and COLOBUS (colobus monkey)

IM, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol /surg, mangabeys go here

81

X CATARRHINA  
X LANGURS  
X MIOPITHECUS TALAPOIN  
X MONKEY, TALAPOIN  
X MONKEYS, OLD WORLD  
X PRESBYTIS  
X PYGATHRIX  
XU COLOBUS  
XU ERYTHROCEBUS PATAS  
XU THEROPITHECUS GELADA

## CERCOPITHECUS AETHIOPS

B2 649 801 201 468 480 110

A species of Cercopithecus containing three subspecies--aethiops, pygerythrus and sabeus. They occur in the forests and savannas of Africa usually NIM no qualif, when IM only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol /surg

81 CERCOPITHECUS PYGERYTHRUS & CERCOPITHECUS SABFUS were see under CERCOPITHECUS 1975-80

use CERCOPITHECUS AETHIOPS to search CERCOPITHECUS PYGERYTHRUS & CERCOPITHECUS SABFUS back thru 1975

see under CERCOPITHECUS

X CERCOPITHECUS PYGERYTHRUS  
X CERCOPITHECUS SABFUS  
X MONKEY AFRICAN GREEN  
X MONKEY, GREEN  
X MONKEY, GRIVET

## CERCOPITHECUS PYGERYTHRUS see CERCOPITHECUS AETHIOPS

B2 649 801 201 468 480 110

## CERCOPITHECUS SABEUS see CERCOPITHECUS AETHIOPS

B2 649 801 201 468 480 110

## CHAGAS CARDIOMYOPATHY

C3 752 935 885 190

C14 280 600 190

Cardiomyopathy with conduction defects and cardiac enlargement characteristic of the last phase of South American trypanosomiasis coord IM with specific heart disease (NIM)

81

X CARDIOMYOPATHY, CHAGAS  
X TRYPANOSOMIASIS, CARDIOVASCULAR

## CHEIROGALEUS see LEMURIDAE

B2 649 801 700 508

## CHILD DEVELOPMENT DISORDERS, PERVASIVE

F3 709 680 500

Severe distortions in the development of many basic psychological functions that are not normal for any stage in development. These distortions are manifested in sustained social impairment, speech abnormalities, and peculiar motor movements

'pervasive' is a psychiatric diag follow text, do not use /drug eff /physiol /rad eff, check also tag CHILD or specific

81

note term over 30 characters

X PERVASIVE CHILD DEVELOPMENT DISORDERS

## CHINESE AMERICANS see ASIAN AMERICANS

I1 880 143 522 50

M1 194 50

M1 403 50

## CHIRONOMIDAE

B1 131 617 289 260

A family of the order Diptera. Salivary glands of the genus Chironomus are used in studies of cellular genetics and biochemistry

IM, /microbiol /parasitol permitted, do not use /drug eff with insecticides TN 111, gall midges index under DIPTERA

(81), MIDGES was see under DIPTERA 1975-80

search MIDGES under DIPTERA 1975-80

see under DIPTERA

X CHIRONOMUS  
X MIDGES, NONBITING  
X SMITTIA

## CHIRONOMUS see CHIRONOMIDAE

B1 131 617 289 260

## CHOLANGIOPANCREATOGRAPHY, ENDOSCOPIC RETROGRADE

E1 184 138 195

E1 418 201

E1 818 701 196 195

Fiberoptic endoscopy designed for duodenal observation and cannulation of Vater's ampulla, in order to visualize the pancreatic and biliary duct system by retrograde injection of contrast media. Endoscopic (Vater) papillotomy may be performed during this procedure

do not use /util except by MeSH definition

81

note term over 30 characters

X ENDOSCOPIC RETROGRADE  
CHOLANGIOPANCREATOGRAPHY  
X ERCP

## CHROMOGENIC COMPOUNDS

D26 550 152

Colorless endogenous or exogenous pigment precursors that may be transformed by biological mechanisms into colored compounds, used in biochemical assays and in diagnosis as indicators, especially in the form of enzymic substrates. Synonym: chromogens (not to be confused with pigment synthesizing bacteria also called chromogens).

colorless precursors that may be transformed into colored cpds, used in biochem assays & as indicators. D25-26 qualif, DF CHROMOGENIC CPDS

SI

X CHROMOGENIC SUBSTRATES

CHROMOGENIC SUBSTRATES see CHROMOGENIC COMPOUNDS

D26 550 152

## COCKAYNE SYNDROME

C5 116 99 343 250

C16 131 77 250

C19 297 238

F3 709 346 120

An inherited disorder characterized by disproportionate dwarfism and premature senility, often accompanied by mental deficiency, photosensitivity, retinal degeneration, optic atrophy, cataracts, and partial deafness

(R1)

see under DWARFISM

X DWARFISM, CACHECTIC

## COLONOSCOPY

E1 184 200

E1 418 213

Examination of the luminal surface of the colon with a colonoscope

NIM do not use /util except by MeSH definition

R1

## COMPARTMENT SYNDROMES

C5 651 180

C14 907 553 241

Conditions in which increased pressure within a limited space compromises the circulation and function of tissue within that space. Mainly involves the leg but also the forearm, arm, thigh, shoulder, and buttock. Some of the causes of Sequelae include nerve compression, paralysis, and contracture

R1, VOLKMANN CONTRACTURE was heading VOLKMANN'S CONTRACTURE 1963-80

use COMPARTMENT SYNDROMES to search VOLKMANN'S CONTRACTURE back thru 1966

X VOLKMANN CONTRACTURE

XU ANTERIOR COMPARTMENT SYNDROME

## CONJUNCTIVAL DISEASES

C11 187

R1

## CONJUNCTIVAL NEOPLASMS

C4 588 364 235

C11 187 169

C11 319 217

/anal /blood supply /secret /ultrastruct permitted, coord IM with histol type of neopl (IM)

R1

## CRANIAL NERVE DISEASES

C10 772 204

coord NIM with specific cranial nerve (IM)

R1, was NON MESH before 1981

## CRANIAL SUTURES

A2 835 232 781 200

A type of fibrous joint between bones of the head

note categ a fibrous joint in bones of head, do not confuse with SUTURES (E7) or SUTURE TECHNIQS (E4)

R1

see under SKULL

## DEMENTIA

F3 709 680 610 392

Loss of intellectual abilities of sufficient severity to interfere with social or occupational functioning. The deficit is multifaceted and involves memory, judgment, and abstract thought. Behavioral and personality changes also occur

do not use /drug eff /physiol /rad eff

R1

DEPRESSION, NEUROTIC see DEPRESSIVE DISORDER

F3 709 438 100 410

F3 709 680 80 300

DEPRESSION, REACTIVE, PSYCHOTIC see AFFECTIVE DISORDERS, PSYCHOTIC

F3 709 680 80

## DEPRESSIVE DISORDER

F3 709 438 100 410

F3 709 680 80 300

An affective disorder manifested by either a dysphoric mood or loss of interest or pleasure in usual activities. The mood disturbance is prominent and relatively persistent

do not use /drug eff /physiol /rad eff, do not confuse with DEPRESSION or DEPRESSIVE SYMPTOMS see note on DEPRESSION

R1, DEPRESSION, NEUROTIC was DEPRESSIVE NEUROSES see DEPRESSION, REACTIVE: 1979-80, was DEPRESSIVE NEUROSES see under DEPRESSION, REACTIVE 1969-78

to search DEPRESSIVE NEUROSES use DEPRESSIVE DISORDER back thru 1981 & ADJUSTMENT DISORDERS 1969-80

X DEPRESSION, NEUROTIC

X DYSTHYMIC DISORDER

X MELANCHOLIA

X NEUROSES, DEPRESSIVE

DIEMICTYLUS VIRIDESCENS see NOTOPHTHALMUS VIRIDESCENS

B2 90 608 700 480

DRUG USE DISORDERS see SUBSTANCE USE DISORDERS

F3 709 597 780

## DUODENOSCOPY

E1 184 250

F1 418 352

Examination of the luminal surface of the duodenum with an endoscope

NIM, do not use /util except by MeSH definition

R1

DWARFISM, CACHECTIC see COCKAYNE SYNDROME

C5 116 99 343 250

C16 131 77 250

C19 297 238

F3 709 346 120

DYSTHYMIC DISORDER see DEPRESSIVE DISORDER

F3 709 438 100 410

F3 709 680 80 300

E ANTIGENS see HEPATITIS B E ANTIGENS

D24 611 216 327 500 469

ENDOSCOPIC RETROGRADE CHOLANGIOPANCREATOGRAPHY see CHOLANGIOPANCREATOGRAPHY, ENDOSCOPIC RETROGRADE

E1 184 138 195

E1 418 201

E1 818 701 196 195

ERCP see CHOLANGIOPANCREATOGRAPHY, ENDOSCOPIC RETROGRADE

E1 184 138 195

E1 418 201

E1 818 701 196 195

ERYTHROCYTE SUBSTITUTES see BLOOD SUBSTITUTES

D19 461 140

ESOPHAGUS, BARRETT see BARRETT ESOPHAGUS

C6 306 102

C16 131 314 102

## EXTRAVASATION OF CONTRAST MEDIA

C21 866 371

C23 399

The escape of a radiographic contrast material from the vessel into which it is introduced into the surrounding tissue or body cavity

note categ use only sensible qualif, do not use /chem ind /familial

R1

note term over 30 characters

XR CONTRAST MEDIA

XR RADIOGRAPHY

## FACIAL NERVE DISEASES

C10 772 204 266

R1

## FACTITIOUS DISORDERS

F3 709 438 500

Disorders characterized by physical or psychological symptoms that are not real, genuine, or natural, and which are under voluntary control

do not use /drug eff /physiol /rad eff, differentiate from SOMATOFORM DISORDERS factitious are phys or psychol sympt under voluntary control, somatoform are phys sympt linked to psychol factors but not under voluntary control

R1

X GANSER SYNDROME

X PSEUDODEMENTIA

X PSEUDOPSYCHOSIS

## FASCIITIS

C5.321

Inflammation of the fascia. There are three major types: 1) Eosinophilic fasciitis, an inflammatory reaction with eosinophilia, producing hard thickened skin with an orange-peel configuration suggestive of scleroderma. Some consider it a variant of scleroderma. 2) Necrotizing fasciitis, a serious fulminating infection causing extensive necrosis of superficial fascia. The organism is usually a beta hemolytic streptococcus. 3) Nodular/Pseudosarcomatous/Proliferative fasciitis, characterized by a rapid growth of fibroblasts with mononuclear inflammatory cells and proliferating capillaries in soft tissue, often the forearm. It is not malignant but is sometimes mistaken for fibrosarcoma.

see MeSH definition for major types; eosinophilic fasciitis: coord IM with EOSINOPHILIA (IM), necrotizing fasciitis: coord IM with NECROSIS (NIM)  
81

FETAL MATURITY, FUNCTIONAL see FETAL ORGAN MATURITY

G8.520.290

## FETAL ORGAN MATURITY

G8.520.290

Functional competence of specific fetal organs or body systems. In humans, usually assessed by analysis of amniotic fluid, as in the assessment of fetal lung maturity by analysis for components of pulmonary surfactant.

only /drug eff /rad eff

81

X FETAL MATURITY, FUNCTIONAL

## FLAVIVIRUSES

B4.909.777.923.377

A genus of *Togaviridae*, also known as Group B arboviruses, serologically related to each other but not to other *Togaviridae*. Most are arboviruses transmitted by mosquitoes or ticks. The type species is the yellow fever virus, one of the *Togaviridae*; do not use /blood-csf-urine /cytol; infection: coord NIM with TOGAVIRUS INFECTIONS (IM)

81, was see ARBOVIRUSES 1978-80; MURRAY VALLEY ENCEPHALITIS VIRUS was see ENCEPHALITIS VIRUSES 1977-80, was see ARBOVIRUSES 1975-76.

search ARBOVIRUSES 1978-80; to search MURRAY VALLEY ENCEPHALITIS VIRUS use FLAVIVIRUSES back thru 1981, ENCEPHALITIS VIRUSES 1977-80 & ARBOVIRUSES 1975-76

X ARBOVIRUSES, GROUP B

X MURRAY VALLEY ENCEPHALITIS VIRUS

XU ENCEPHALITIS VIRUS, ST. LOUIS

XU KYASANUR FOREST DISEASE VIRUS

XU LANGAT VIRUS

FROGS AND TOADS see ANURA

B2.90.180

GANSER SYNDROME see FACTITIOUS DISORDERS

F3.709.438.500

## GARDNER SYNDROME

C4.799.411.393

C16.131.77.393

C6.405.469.583.393

An autosomal dominant disease featuring multiple colonic polyposis with malignant tendency, subcutaneous fibromata and lipomata, exostoses and osteomas of the skull and facial bones, and epidermal inclusion cysts.

do not use /anal /blood supply /congen /secret /ultrastruct

81

## GASTRIC ACID

A12.838.307.603

Hydrochloric acid present in gastric juice.

only /metab /physiol /secret; /anal = GASTRIC ACIDITY DETERMINATION

81, was HYDROCHLORIC ACID, GASTRIC see GASTRIC JUICE 1969-80 to search HYDROCHLORIC ACID, GASTRIC use GASTRIC ACID back through 1981 and GASTRIC JUICE 1969-80

X HYDROCHLORIC ACID, GASTRIC

XR HYDROCHLORIC ACID

## GASTRIC FUNDUS

A3.492.766.419

The superior portion of the body of the stomach above the level of the cardiac notch.

NIM when merely locational

81

## GASTRITIS, ATROPHIC

C6.405.748.369.394

Chronic gastritis with mucosal atrophy.

a chronic dis: do not coord with CHRONIC DISEASE

81

see under GASTRITIS

## GASTRITIS, HYPERTROPHIC

C6.405.748.369.410

Gastritis with hypertrophy of gastric mucosa folds. Symptoms include vomiting, diarrhea, weight loss, excessive mucus secretion, and hypoproteinemia  
81

see under GASTRITIS

X MENETRIER DISEASE

GENE ACTION REGULATION see GENE EXPRESSION REGULATION

G5.331.380

## GENE EXPRESSION REGULATION

G5.331.380

Any of the processes by which nuclear, cytoplasmic, or intercellular factors influence the differential control of gene action at the level of transcription or translation

only /drug eff /rad eff

81

X GENE ACTION REGULATION

X REGULATION OF GENE EXPRESSION

GENETIC TOXICITY TESTS see MUTAGENICITY TESTS

E5.393.560

GLUE SNIFFING see SUBSTANCE USE DISORDERS

F3.709.597.780

## GROIN

A1.47.412

The external junctional region between the lower part of the abdomen and the thigh.

external only; do not confuse with INGUINAL CANAL, internal only; NIM when merely locational

81

HAPALE see CALLITHRIX

B2.649.801.201.280.262

HBEAG see HEPATITIS B E ANTIGENS

D24.611.216.327.500.469

HEMOGLOBIN SUBSTITUTES see BLOOD SUBSTITUTES

D19.461.140

## HEPATITIS B E ANTIGENS

D24.611.216.327.500.469

A closely related group of antigens found in the plasma only during the infective phase of hepatitis B or in virulent chronic hepatitis B, probably indicating active virus replication; there are three subtypes which may exist in a complex with immunoglobulins G.

only /admin /adv eff /anal /csf /class /genet /immunol /isol /rad eff /stand /tox /urine

(81)

see under HEPATITIS B ANTIGENS

X E ANTIGENS

X HBEAG

HLA-D ANTIGENS see ANTIGENS, IMMUNE RESPONSE

D24.611.216.705.35

## HOMOSEXUALITY, EGO-DYSTONIC

F3.709.597.608.480

Homosexuality characterized by the individual's desire to acquire or increase heterosexual arousal so that heterosexual relationships can be initiated and maintained. There is also a sustained pattern of homosexual arousal that the individual explicitly states has been unwanted and a persistent source of distress

do not use /drug eff /physiol /rad eff

81

X LESBIANISM, EGO-DYSTONIC

HYDROCHLORIC ACID, GASTRIC see GASTRIC ACID

A12.838.307.603

## HYPERPHAGIA

F3.126.72.208

Ingestion of a greater than optimal quantity of food.

do not use /drug eff /physiol /rad eff

(81)

see under APPETITE DISORDERS

X BULIMIA

X OVEREATING

## HYPOTHALAMIC DISEASES

C10.228.140.617

coord IM with specific part of: hypothalamus (NIM)

81

## HYPOTHALAMIC NEOPLASMS

C4.588.614.195.486

C10.228.140.211.477

C10.228.140.617.477

anal /blood supply /secret /ultrastruct permitted; coord IM with site in hypothalamus (NIM) + histol type of neopl (IM)

81

## IA ANTIGENS see ANTIGENS, IMMUNE RESPONSE

D24.611.216.705.55

## IMMUNE RESPONSE ANTIGENS see ANTIGENS, IMMUNE RESPONSE

D24.611.216.705.55

## IMPLANTS, ARTIFICIAL

E7.450

Artificial implants inserted into the body

do not use /util except by MeSH definition, consider also PROSTHESIS & its indentions

81

## IMPULSE CONTROL DISORDERS

F3.709.597.460

The essential features of this disorder are the failure to resist an impulse, drive, or temptation to perform an act that is harmful to the individual or to others, an increased sense of tension prior to the act; and the experiencing of pleasure or gratification or release of tension at the time of committing the act

do not use /drug eff /physiol /rad eff

K1.EPTOMANIA was see under NEUROSES, OBSESSIVE-COMPULSIVE 1963-80

to search K1.EPTOMANIA use IMPULSE CONTROL DISORDERS back thru 1981 & OBSESSIVE-COMPULSIVE DISORDER 1966-80

see related

SUBSTANCE USE DISORDERS

X KLEPTOMANIA

XU FIRESETTING BEHAVIOR

## INTESTINAL PSEUDO-OBSTRUCTION, IDIOPATHIC

C6.405.469.531.560

A rare episodic disorder characterized by abdominal pain, vomiting, distension, and constipation or diarrhea with no evidence of organic obstruction

a div entity: see MeSH definition

81

note: term over 30 characters

see under INTESTINAL OBSTRUCTION

## IRIS DISEASES

C11.941.500

81

## JAPANESE AMERICANS see ASIAN AMERICANS

I1.880.143.522.50

M1.194.50

M1.403.50

## KLEPTOMANIA see IMPULSE CONTROL DISORDERS

F3.709.597.460

## LAGOTHRIX see CEBIDAE

B2.649.801.201.370

## LANGURS see CERCOPITHECIDAE

B2.649.801.201.468

## LATEX

D25.720.540

White, milky exudate from certain plants, now also synthetic, any aqueous colloid with particles of polymers in suspension; can be vulcanized to form elastomers (rubber); thin rubber sheeting is often called latex rubber. Synonyms: balata, chicle; guayule

natural exudate from plants; can be synthesized; do not confuse with RUBBER, processed or synthetic, D25-26 qualif; /biosyn permitted if by plant

81(63-67); was see LATEX RUBBER 1968-80, was see under RUBBER 1963-67, LATEX PARTICLES was heading 1968-80

search RUBBER 1966-80 (as Prov 1966); use LATEX + MICROSPHERES to search LATEX PARTICLES 1968-80

X LATICES

## LATICES see LATEX

D25.720.540

## LEGIONELLA

B3.572

Proposed name for new genus containing a new species Legionella pneumophila, the Legionnaires' disease bacterium.

do not use /blood-csf-urine, infection = LEGIONNAIRES' DISEASE

81

## LEMUR, DWARF see LEMURIDAE

B2.649.801.700.508

## LEMUR, MOUSE see LEMURIDAE

B2.649.801.700.508

## LEMURIDAE

B2.649.801.700.508

A family of Primates of the suborder Prosimii containing seven genera which occurs on Madagascar and the Comoro Island. Most of the lemurs prefer wooded areas. The seven genera are Allocebus, Cheirogaleus, Haplemur, LEMUR, Leplemur, Microcebus and Phaner

prosimians, IM, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol /surg

81

X CHEIROGALEUS

X LEMUR, DWARF

X LEMUR, MOUSE

X MICROCEBUS

XU LEMUR

## LESBIANISM, EGO-DYSTONIC see HOMOSEXUALITY, EGO-DYSTONIC

F3.709.597.608.480

## LEVEEN SHUNT see PERITONEOVENOUS SHUNT

E4.752.814.750

E4.765.790

## LOD SCORE

G5.568.562

The total relative probability, expressed on a logarithmic scale, that a linkage relationship exists among selected loci. Lod is an acronym for 'logarithmic odds.'

for Logarithmic ODDs in genet a linkage relat among loci; no qualif

(81)

see under LINKAGE (GENETICS)

## LORIS, SLOW see LORISIDAE

B2.649.801.700.572

## LORISIDAE

B2.649.801.700.572

A family of Primates of the suborder Prosimii containing six genera which occurs in parts of Africa, India, Asia, and the Philippines. The six genera are: Arctocebus (golden potto), GALAGO (bush babies), Loris (blender loris), Nycticebus (slow loris), and Perodicticus (potto). Lorises and pottos are relatively common except for Arctocebus, the golden potto. All are arboreal and nocturnal.

prosimians; IM, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol /surg

X LORIS, SLOW

X NYCTIBUS

X PERODICTICUS POTTO

X POTTOS

## MACACA NEMESTRINA

B2.649.801.201.468.660.568

A species of the genus Macaca which occurs in Malaya, Sumatra and Borneo. It is one of the most arboreal species of Macaca. The tail is short and untwisted usually NIM: no qualif; when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol /surg

see under MACACA

X MONKEY, PIG-TAILED

## MANIA see MANIC DISORDER

F3.709.680.80.408

## MANIC DISORDER

F3.709.680.80.408

An affective psychotic disorder in which the predominant mood is either elevated, expansive, or irritable. Associated symptoms include hyperactivity, flight of ideas, inflated self-esteem, etc

do not use /drug eff /physiol /rad eff

(81)

see under AFFECTIVE DISORDERS, PSYCHOTIC

X MANIA

X MANIC STATE

## MANIC STATE see MANIC DISORDER

F3.709.680.80.408

## MARIHUANA ABUSE see CANNABIS ABUSE

F3.709.597.780.610.200

**MARMOSSET, COMMON** see **CALLITHRIX**  
B2.649.801.201.280.262

**MARMOSSET, COTTON-TOP** see **SAGUINUS**  
B2.649.801.201.280.680

**MARMOSSET, LONG-TUSKED** see **SAGUINUS**  
B2.649.801.201.280.680

**MARMOSSET, SHORT-TUSKED** see **CALLITHRIX**  
B2.649.801.201.280.262

## **MATERNAL AGE 35 AND OVER**

C18.520.769.420.630

Use for problems of pregnancy occurring in a woman's late reproductive years. These include effect on the mother's physical and mental health as well as risks of perinatal mortality and fetal abnormality. no qualif, relation to **PREGNANCY**. Manual 28.33, DF: **MATERNAL AGE 35**

(81)

see under **MATERNAL AGE**

**MELANCHOLIA** see **DEPRESSIVE DISORDER**  
F3.709.438.100.410 F3.709.680.80.300

**MENETRIER DISEASE** see **GASTRITIS, HYPERTROPHIC**  
C6.405.748.369.410

**MENTAL DISORDERS, ORGANIC, SUBSTANCE-INDUCED** see **ORGANIC MENTAL DISORDERS, SUBSTANCE-INDUCED**  
F3.709.508.490

**MESENTERIC CIRCULATION** see **SPLANCHNIC CIRCULATION**  
C19.130.163.881

**MICROCEBUS** see **LEMURIDAE**  
B2.649.801.700.508

**MIDGES, NONBITING** see **CHIRONOMIDAE**  
B1.131.617.289.260

**OPITHECUS TALAPOIN** see **CERCOPITHECIDAE**  
B2.649.801.201.468

**MONKEY, AFRICAN GREEN** see **CERCOPITHECUS AETHIOPS**  
B2.649.801.201.468.480.110

**MONKEY, CAPUCHIN** see **CEBUS**  
B2.649.801.201.370.320

**MONKEY, GREEN** see **CERCOPITHECUS AETHIOPS**  
B2.649.801.201.468.480.110

**MONKEY, GRIVET** see **CERCOPITHECUS AETHIOPS**  
B2.649.801.201.468.480.110

**MONKEY, PIG-TAILED** see **MACACA NEMESTRINA**  
B2.649.801.201.468.660.568

**MONKEY, RING-TAIL** see **CEBUS**  
B2.649.801.201.370.320

**MONKEY, SPIDER** see **CEBIDAE**  
B2.649.801.201.370

**MONKEY, TALAPOIN** see **CERCOPITHECIDAE**  
B2.649.801.201.468

**MONKEY, WOOLLY** see **CEBIDAE**  
B2.649.801.201.370

**MONKEYS, NEW WORLD** see **CEBIDAE**  
B2.649.801.201.370

**MONKEYS, OLD WORLD** see **CERCOPITHECIDAE**  
B2.649.801.201.468

**MUDPUPPY** see **NECTURUS**  
B2.90.608.630.510

**MARAY VALLEY ENCEPHALITIS VIRUS** see **FLAVIVIRUSES**  
B4.909.777.923.377

**MUTAGEN SCREENING** see **MUTAGENICITY TESTS**  
E5.393.560

## **MUTAGENICITY TESTS**

E5.393.560

Tests of chemical substances and physical agents for mutagenic potential. Includes microbial, insect, mammalian cell, and whole animal tests.

NIM, only /inatum /methods

81

X **GENETIC TOXICITY TESTS**  
X **MUTAGEN SCREENING**

## **NECTURUS**

B2.90.608.630.510

A genus of the Proteidae family with five recognized species, which inhabit the Atlantic and Gulf drainages.

usually NIM: no qualif, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol

81

X **MUDPUPPY**  
XU **NECTURUS MACULOSUS**

## **NECTURUS MACULOSUS**

B2.90.608.630.510.508

A neotenic aquatic species of mudpuppy (Necturus) occurring from Manitoba to Louisiana and Texas.

usually NIM: no qualif, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol

81

see under **NECTURUS**

**NEUROSI, DEPRESSIVE** see **DEPRESSIVE DISORDER**

F3.709.438.100.410 F3.709.680.80.300

**NEWT, RED-SPOTTED** see **NOTOPHTHALMUS VIRIDESCENS**

B2.90.608.700.480

## **NOTOPHTHALMUS VIRIDESCENS**

B2.90.608.700.480

A genus of the Salamandridae family in which the larvae transform into terrestrial eft (newt) stage and later into an aquatic adult. They occur from Canada to southern United States.

usually NIM: no qualif, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol

(81)

see under **SALAMANDRIDAE**

X **DIEMICTYLUS VIRIDESCENS**  
X **NEWT, RED-SPOTTED**  
X **TRITURUS VIRIDESCENS**

**NUCLEIC ACIDS REPETITIVE SEQUENCES** see **REPETITIVE SEQUENCES, NUCLEIC ACID**

G5.331.112.708

G6.184.130.708

**NYCETIBUS** see **LORISIDAE**

B2.649.801.700.572

**ORANGUTAN** see **PONGO PYGMAEUS**

B2.649.801.201.600.790

## **ORBITAL DISEASES**

C11.675

Diseases of the bony orbit and contents except the eyeball.

dis of bony cavity & its contents except eyeball ( = **EYE DISEASES** or specifics)

81

**ORGANIC BRAIN SYNDROME, SUBSTANCE-INDUCED** see **ORGANIC MENTAL DISORDERS, SUBSTANCE-INDUCED**

F3.709.508.490

**ORGANIC MENTAL DISORDERS, DRUG-INDUCED** see **ORGANIC MENTAL DISORDERS, SUBSTANCE-INDUCED**

F3.709.508.490

## **ORGANIC MENTAL DISORDERS, SUBSTANCE-INDUCED**

F3.709.508.490

Organic brain syndromes caused by the direct effects on the nervous system of various substances. These are distinguished from the substance use disorders that refer to the behavior associated with taking substances that affect the central nervous system.

do not use /chem ind /drug eff /physiol /rad eff; coord IM with toxic substance /ad-poi/tox (IM)

81

note: term over 30 characters

X **MENTAL DISORDERS, ORGANIC, SUBSTANCE-INDUCED**  
X **ORGANIC BRAIN SYNDROME, SUBSTANCE-INDUCED**  
X **ORGANIC MENTAL DISORDERS, DRUG-INDUCED**

**OVEREATING** see **HYPERPHAGIA**

E 126 72 208

## **PANCREATIC INSUFFICIENCY**

C6 689 612

Absence of or reduced pancreatic exocrine secretion into the duodenum and resultant poor digestion of lipids, vitamins, nitrogen, and carbohydrates

81

## **PANCREATIC PSEUDOCYST**

C 4 182 640 692

C6 689 500 692

Cyst like space not lined by epithelium and contained within the pancreas.

81

see under **PANCREATIC CYST**

**PCP ABUSE** see **PHENCYCLIDINE ABUSE**

E 3 709 597 780 610 560

## **PELIOSIS HEPATIS**

C6 552 802

A condition in which microscopic pools of blood are present throughout the liver parenchyma, which may lead to congestion and necrosis

81

see under **LIVER DISEASES**

## **PEMPHIGOID, BENIGN MUCOUS MEMBRANE**

C17 816 670

A chronic blistering disease with predilection for mucous membranes and less frequently the skin and with a tendency to scarring. Sometimes called ocular pemphigoid because of involvement of the mucous membranes of the conjunctiva

'pemphigoid' unspecified goes under **PEMPHIGOID, BULLOUS**

(81)

note term over 30 characters

see under **SKIN DISEASES, BULLOUS**

X **PEMPHIGOID, CICATRICAL**

## **PEMPHIGOID, BULLOUS**

C17 816 690

A chronic and relatively benign subepidermal blistering disease usually of the elderly and without histopathologic acantholysis

'pemphigoid' unspecified goes here

(81)

see under **SKIN DISEASES, BULLOUS**

**PEMPHIGOID, CICATRICAL** see **PEMPHIGOID, BENIGN MUCOUS MEMBRANE**

C17 816 670

## **PERITONEOVENOUS SHUNT**

E4 752 814 750

E4 765 790

An operation for the continuous emptying of ascitic fluid into the venous system. Fluid removal is based on intraperitoneal and intrathoracic superior vena cava pressure differentials and is performed via a pressure-sensitive one-way valve connected to a tube traversing the subcutaneous tissue of the chest wall to the neck where it enters the internal jugular vein and terminates in the superior vena cava. Used in treatment of intractable ascites.

do not use /util except by MeSH definition

(81)

see under **VASCULAR SURGERY**

X **ASCITES SHUNT, PERITONEOVENOUS**

X **LEVEEN SHUNT**

**PERODICTICUS POTTO** see **LORISIDAE**

B2 649 801 700 572

**PERSONALITY DISORDER, BORDERLINE** see **BORDERLINE PERSONALITY DISORDER**

E3 709 597 90

**PERVASIVE CHILD DEVELOPMENT DISORDERS** see **CHILD DEVELOPMENT DISORDERS, PERVASIVE**

F3 709 680 500

## **PESTIVIRUSES**

B4 909 777 923 723

A genus of *Togaviridae*, also known as mucosal disease virus group, that are not arthropod-borne. The type species is the bovine diarrhea virus.

one of the *Togaviridae*; do not use /blood-csf-urine /cytol; infection: coord NIM with **TOGAVIRUS INFECTIONS (IM)**

81

XU **BOVINE DIARRHEA VIRUS**

## **PHENCYCLIDINE ABUSE**

E3 709 597 780 610 560

The misuse of phencyclidine with associated psychological symptoms and impairment in social or occupational functioning.

do not use /chem ind /drug eff /physiol /rad eff

81

X **ANGEL DUST ABUSE**

X **PCP ABUSE**

## **PHYSICIAN IMPAIRMENT**

E1 880 604 583 524 516

N1 706 535 606 516

The physician's inability to practice medicine with reasonable skill and safety to the patient due to the physician's disability. Common causes include alcohol and drug abuse, mental illness, handicaps, and senility.

only /legis

81

## **PIPIDAE**

B2 90 180 610

A family of the order Anura, distinguished by the lack of a tongue; includes four living genera of aquatic 'toads'. Two of the most familiar *pipids* are the popularly called Surinam 'toad' (*Pipapipa*) and *Xenopus laevis*.

usually NIM, no qualif, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol

81

## **PLASMA EXCHANGE**

E2 95 135 750

Removal of plasma and replacement with various fluids, e.g., fresh frozen plasma, plasma protein fractions (PPF), albumin preparations, dextran solutions, saline. Used in treatment of autoimmune diseases, immune complex diseases, diseases of excess plasma factors, and other conditions.

81

**PLATANNA** see **XENOPUS LAEVIS**

B2 90 180 610 500 562

**PLATYRRHINA** see **CEBIDAE**

B2 649 801 201 370

## **PLEURODELES**

B2 90 608 700 540

A genus of aquatic newts belonging to the family Salamandridae and sometimes referred to as 'spiny' tritons. There are two species *P. waltilli* and *P. poireti*. *P. waltilli* is commonly used in the laboratory. Since this genus adapts to aquarium living, it is easy to maintain in laboratories.

usually NIM, no qualif, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol

81

see under **SALAMANDRIDAE**

## **PONGO PYGMAEUS**

B2 649 801 201 600 790

A single genus and species of orangutan belonging to the *Pongidae* family found only in lowland forests of Sumatra and Borneo. Among the Primates the orangutan is second in size only to the gorilla.

IM; when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol /surg; DF: **PONGO**

see under **PONGIDAE**

X **ORANGUTAN**

## **PORTASYSTEMIC SHUNT, SURGICAL**

E4 752 814 790

Surgical venous shunt between the portal and systemic circulation to effect decompression of the portal circulation. Performed primarily in treatment of bleeding esophageal varices resulting from portal hypertension. Types of shunt include portacaval, splenorenal, mesocaval, splenocaval, left gastric-caval (coronary-caval), portarenal, umbilicorenal, and umbilicocaval.

do not use /util except by MeSH definition; see MeSH definition for types; DF: **PORTASYSTEMIC SHUNT**

81

X **PORTOSYSTEMIC SHUNT, SURGICAL**

XU **SPLENORENAL SHUNT, SURGICAL**

XR **HYPERTENSION, PORTAL**

**PORTOSYSTEMIC SHUNT, SURGICAL** see **PORTASYSTEMIC SHUNT, SURGICAL**

E4 752 814 790

**POTTOS** see **LORISIDAE**

B2 649 801 700 572

**PRESBYTIS** see **CERCOPITHECIDAE**

B2 649 801 201 468

## PROTEIDAE

B2.90.608.630

The Proteidae family of permanently larval aquatic salamanders consists of two living genera *Necturus* (mudpuppy) of the eastern United States and *Proteus* (the European olm)

note: categorize a family of aquatic salamanders, usually NIM: no qualif; when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol

81

**PSYUDODEMENTIA** see **FACTITIOUS DISORDERS**

F3.709.438.500

**PSYUDOPSYCHOSIS** see **FACTITIOUS DISORDERS**

F3.709.438.500

**PSYCHOSES, AFFECTIVE** see **AFFECTIVE DISORDERS, PSYCHOTIC**

F3.709.680.80

## PSYCHOSEXUAL DISORDERS

F3.709.597.608

Sexual disorders which are assumed to be due to psychological factors. They include transsexualism, the paraphilias, and the psychosexual dysfunctions--dyspareunia, frigidity, and impotence.

do not use /drug eff /physiol /rad eff; see Tree for scope; differentiate from **PSYCHOSEXUAL DYSFUNCTIONS** which are restricted to sex dysfunction related to coitus

81

**XU PSYCHOSEXUAL DYSFUNCTIONS**

## PSYCHOSEXUAL DYSFUNCTIONS

F3.709.597.608.780

The essential feature of these dysfunctions is inhibition in the appetitive or psychophysiological changes that characterize the complete sexual response cycle. This cycle includes the following phases: appetitive, excitement, orgasm, and resolution (relaxation).

do not use /drug eff /physiol /rad eff; differentiate from **PSYCHOSEXUAL DISORDERS**. see note there

(81)

see under **PSYCHOSEXUAL DISORDERS**

## PUBERTY, DELAYED

C19.391.690

Unusually late sexual maturity.

human only

81

**PULMONARY ARTERY WEDGE PRESSURE** see **PULMONARY WEDGE PRESSURE**

G9.330.612.114.695

**PULMONARY CAPILLARY WEDGE PRESSURE** see **PULMONARY WEDGE PRESSURE**

G9.330.612.114.695

**PULMONARY VENOUS WEDGE PRESSURE** see **PULMONARY WEDGE PRESSURE**

G9.330.612.114.695

## PULMONARY WEDGE PRESSURE

G9.330.612.114.695

The blood pressure as recorded after wedging a catheter in a small pulmonary artery; believed to reflect the pressure in the pulmonary capillaries.

only /drug eff /rad eff

81

**X PULMONARY ARTERY WEDGE PRESSURE**  
**X PULMONARY CAPILLARY WEDGE PRESSURE**  
**X PULMONARY VENOUS WEDGE PRESSURE**  
**X WEDGE PRESSURE**  
**XR HEART CATHETERIZATION**

**PYGATHRIX** see **CERCOPITHECIDAE**

B2.649.801.201.468

## RANA RIDIBUNDA

B2.90.180.708.360

A species of the family Ranidae which occurs primarily in Europe and is used widely in biomedical research.

laughing frog; usually NIM: no qualif; but when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol

(81)

see under **RANIDAE**

## RATS, ZUCKER

B2.649.865.766.690

Two populations of Zucker rats have been cited in research--the 'fatty' or obese and the lean. The 'fatty' rat (*Rattus norvegicus*) appeared as a spontaneous mutant. The obese condition appears to be due to a single recessive gene.

usually NIM: no qualif; but when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol; do not forget also to check tag **RATS**

(81)

see under **RATS**

**X ZUCKER RATS**

**RFD CELL SUBSTITUTE:** see **BLOOD SUBSTITUTES**

D19.461.140

**REFLEX, BLINK** see **BLINKING**

G11.561.730.127 G11.697.182

**REFLEX, CORNEAL** see **BLINKING**

G11.561.730.127 G11.697.182

**REGULATION OF GENE EXPRESSION** see **GENE EXPRESSION REGULATION**

G5.331.380

## REPETITIVE SEQUENCES, NUCLEIC ACID

G5.331.112.708 G6.184.130.708

Nucleotide sequences present in multiple copies in the genome.

only /drug eff /rad eff; coord IM with DNA, RNA or specifics (NIM); **DF: REPET SEQ**

81

note: term over 30 characters

**X NUCLEIC ACIDS REPETITIVE SEQUENCES**

**XR DNA**

**XR RNA**

## RETROVIRUS INFECTIONS

C2.782.815

Virus diseases caused by the Retroviridae.

see note above for infections

81

## ROD OUTER SEGMENTS

A8.796.511.725.605.653.750 A9.371.729.778.750

A11.671.838.750

The portion of the retinal rod cell between the inner segment and the pigment epithelium layer of the retina.

do not use /innerv

81

see under **RODS AND CONES**

## SAGUINUS

B2.649.801.201.280.680

A genus of Callithricidae consisting of 22 species and occurring in Panama as well as South America. Species seen most frequently in the literature are *S. oedipus* (cotton-top marmoset), *S. nigricollis*, and *S. fuscicollis*.

usually NIM: no qualif; when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol /surg

(81)

see under **CALLITHRICIDAE**

**X MARMOSET, COTTON-TOP**

**X MARMOSET, LONG-TUSKED**

**SALAMANDER, MOLE** see **AMBYSTOMATIDAE**

B2.90.608.80

**SALIENTIA** see **ANURA**

B2.90.180

## SELF CARE

E2.900 N2.421.784.680

Consumer performance of activities traditionally performed by professional health care providers. Includes care of oneself or one's family and friends only /adv eff /econ /instrum /methods /psychol; = care prescribed by MD or generated by person himself & includes care for self, family or friends, differentiate from **SELF MEDICATION** (medication not prescribed by MD) and **SELF ADMINISTRATION** (admin of medication prescribed by MD or self admin of substances by exper animals)

81; was see **ACTIVITIES OF DAILY LIVING 1979-80**

search **ACTIVITIES OF DAILY LIVING 1979-80**

## SHORT BOWEL SYNDROME

C6 405.469.637.832 C23.814.777

A malabsorption syndrome resulting from extensive operative resection of small bowel

81

see under MALABSORPTION SYNDROMES

## SHY-DRAGER SYNDROME

C10.120.853 C14.907.514.482.853

A progressive degenerative disease of the central and autonomic nervous systems characterized by orthostatic hypotension, urinary and fecal incontinence, anhidrosis, external ophthalmoplegia, generalized weakness, muscle wasting, tremors, and impotence

(81)

see under AUTONOMIC NERVOUS SYSTEM DISEASES

## SMITIA see CHIRONOMIDAE

B1.131.617.289.260

## SOMATIZATION DISORDER see SOMATIFORM DISORDERS

F3.709.438.710

## SOMATIFORM DISORDERS

F3.709.438.710

Disorders characterized by physical symptoms suggesting a physical disorder for which there are no demonstrable organic findings and for which there is strong or positive evidence that they are linked to psychological factors. Unlike the factitious disorders, the symptom production is not under voluntary control

do not use /drug eff /physiol /rad eff, differentiate from FACTITIOUS DISORDERS factitious are phys or psychol sympt under voluntary control, somatiform are phys sympt linked to psychol factors but not under voluntary control, differentiate from PSYCHOPHYSIOLOGIC DISORDERS:

psychophysiol are organic diseases of psychol origin or psychol exacerbation, somatiform are symptoms of organic dis without actual disease

81

X BRIQUEI SYNDROME  
X SOMATIZATION DISORDER

## SPLANCHNIC CIRCULATION

G9.330.163.881

The circulation of blood through the vessels supplying the abdominal viscera. only /drug eff /rad eff

81

X MESENTERIC CIRCULATION

## SPLENORENAL SHUNT, SURGICAL

E4.752.814.790.870

Anastomosis of splenic vein to renal vein to relieve portal hypertension do not use /util except by MeSH definition; DF SPLENORENAL SHUNT (81)

see under PORTASYSTEMIC SHUNT, SURGICAL

## STEREOTYPING

F1.829.890

An oversimplified perception or conception especially of persons, social groups, etc.

no qualif, includes both person using stereotype thinking & person or group being stereotyped, do not confuse with STEREOTYPED BEHAVIOR: read MeSH definition

XR SOCIAL PERCEPTION

## SUBMANDIBULAR GLAND DISEASES

C7.465.815.882

81

see under SALIVARY GLAND DISEASES

## SUBMANDIBULAR GLAND NEOPLASMS

C4.588.546.760.885 C7.465.815.718.885

/anal /blood supply /secret /ultrastruct permitted; coord IM with histol type of neopl (IM)

81

see under SALIVARY GLAND NEOPLASMS

## SUBSTANCE USE DISORDERS

F3.709.597.750

Disorders manifested by maladaptive behavior associated with severe or less regular use of substances. To be distinguished from substance-induced organic mental disorders in which there are direct effects (acute or chronic) of these substances on the central nervous system.

IM + specific drug or substance IM (without qualif); do not use /chem ind /drug eff /physiol /rad eff

81, GLUE SNIFFING was heading 1964-80 (Prov 1964-68)

use SUBSTANCE USE DISORDERS to search GLUE SNIFFING back thru 1966 (as Prov 1966-68)

X DRUG USE DISORDERS  
X GLUE SNIFFING  
XR IMPULSE CONTROL DISORDERS

## SUPPORT, NON-U.S. GOV'T

check tag only: NON US GOVT SUP; for all articles noted as supported by Amer sources (societies, institutes, state govts, universities, private organizations, etc) & by foreign sources (national, departmental, provincial, academic & private organizations, etc.); for support by both a non-US Govt source & a US Govt source, check NON-US GOVT SUP + NIH/FHS SUP or OTHER US GOVT SUP; Manual 18.15+; DF: SUP NON GOVT  
81

## TEXTBOOKS

I2.903.847.508

L1.178.820.900

L1.178.682.192.900

Books used in the study of a subject that contain a systematic presentation of the principles and vocabulary of a subject.

(81)

see under BOOKS

## THALAMIC DISEASES

C10.228.140.915

81

## TOAD, FIRE-BELLIED see ANURA

B2.90.180

## TOADS AND FROGS see ANURA

B2.90.180

## TOBACCO DEPENDENCE see TOBACCO USE DISORDER

F3.709.597.780.810

## TOBACCO USE DISORDER

F3.709.597.780.810

Tobacco used to the detriment of a person's health or social functioning. Tobacco dependence is included.

includes cigarettes, cigars, chewing tobacco & snuff; do not use /chem ind /drug eff /physiol /rad eff

81

X TOBACCO DEPENDENCE  
XR SMOKING

## TOGAVIRIDAE

B4.909.777.923

A family of RNA viruses, mainly arboviruses, consisting of the following genera: ALPHAVIRUSES (group A arboviruses), FLAVIVIRUSES (group B arboviruses), PESTIVIRUSES, and Rubivirus (RUBELLA VIRUS). Virions are spherical, 40-70 nm in diameter, with lipoprotein envelope tightly applied to icosahedral nucleocapsid.

do not use /blood-csf-urine /cytol; infection = TOGAVIRUS INFECTIONS

81; was TOGAVIRUSES see ARBOVIRUSES 1978-80

search ARBOVIRUSES 1978-80

## TOGAVIRUS INFECTIONS

C2.782.930

Virus diseases caused by the Togaviridae.

81; WEST NILE FEVER was see under ARBOVIRUS INFECTIONS 1975-80

XU WEST NILE FEVER

## TRITURUS VIRIDESCENS see NOTOPHTHALMUS VIRIDESCENS

B2.90.608.700.480

## TRYPANOSOMIASIS, CARDIOVASCULAR see CHAGAS

CARDIOMYOPATHY

C3.752.935.885.190

C14.280.600.190



## TUPAIA

B2 649.801.700.810.804

A genus of the family Tupaiidae which consists of about 12 species. One of the most frequently encountered species is *T. glis*. Members of this genus occur in rain forests and secondary growth of southeast Asia.

a tree shrew, IM, when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol /surg

(81)

see under TUPAIIDAE

## UVEAL NEOPLASMS

C4 588.364.978

C11 319.494

C11 941.855

/anal /blood supply /secret /ultrastruct permitted, coord IM with histol type of neopl (IM), CHOROID NEOPLASMS is also available

81

VAGOTOMY, PARIETAL CELL see VAGOTOMY, PROXIMAL GASTRIC

E4 765.936.952

## VAGOTOMY, PROXIMAL GASTRIC

E4 765.936.952

Vagal denervation of that part of the stomach lined with acid secreting mucosa.

do not use /util except by MeSH definition

(81)

see under VAGOTOMY

X VAGOTOMY, PARIETAL CELL

X VAGOTOMY, SELECTIVE PROXIMAL

VAGOTOMY, SELECTIVE PROXIMAL see VAGOTOMY, PROXIMAL GASTRIC

E4 765.936.952

## VIROIDS

B4 956

A group of pathogens comprising the smallest known agents of infectious disease. They are unencapsulated and are capable of replicating autonomously in susceptible cells. Positively identified viroids composed of single-stranded RNA have been isolated from higher plants, but the existence of DNA viroids pathogenic to animals is suspected.

'smallest known agents of infect dis', do not use /blood-csf-urine /cytol

81

VOLKMANN CONTRACTURE see COMPARTMENT SYNDROMES

C5 651.180

C14.907.553.241

WEDGE PRESSURE see PULMONARY WEDGE PRESSURE

G9 330.612.114.695

## XENOPUS LAEVIS

B2 90.180.610.500.562

The commonest and widest ranging species of the clawed 'frog' (*Xenopus*) in Africa. This species is used extensively in research. There is now a significant population in California derived from escaped laboratory animals.

usually NIM no qualif; when IM, only /anat /blood-csf-urine /class /embryol /genet /growth /immunol /metab /microbiol /parasitol /physiol

81

X PLATANNA

ZUCKER RATS see RATS, ZUCKER

B2 649.865.766.690

NEW DESCRIPTORS IN 1981 MESH  
(BY SUBCATEGORY)

- A1 GROIN
- A2 CRANIAL SUTURES
- A3 BILE CANALICULI  
GASTRIC FUNDUS
- A8 ROD OUTER SEGMENTS (A9, A11)
- A9 ROD OUTER SEGMENTS (A8, A11)
- A11 ROD OUTER SEGMENTS (A8, A9)
- A12 GASTRIC ACID
- B1 ANGIOSTRONGYLUS  
CHIRONOMIDAE
- B2 AMBYSTOMA MEXICANUM  
AMBYSTOMATIDAE  
ANURA  
CALLITHRIX  
CEBIDAE  
CEBUS  
CERCOPITHECIDAE  
CERCOPITHECUS AETHIOPS  
LEMURIDAE  
LORISIDAE  
MACACA NEMESTRINA  
NECTURUS  
NECTURUS MACULOSUS  
NOTOPHTHALMUS VIRIDESCENS  
PIPIDAE  
PLEURODELES  
PONGO PYGMAEUS  
PROTEIDAE  
RANA RIDIBUNDA  
RATS, ZUCKER  
SAGUINUS  
TUPAIA  
XENOPUS LAEVIS
- B3 ARCHAEABACTERIA  
LEGIONELLA
- B4 ALPHAVIRUSES  
BUNYAVIRIDAE  
FLAVIVIRUSES  
PESTIVIRUSES  
TOGAVIRIDAE  
VIROIDS
- C1 CANDIDIASIS, CHRONIC  
MUCOCUTANEOUS (C17)
- C2 ARENAVIRUS INFECTIONS  
BUNYAVIRUS INFECTIONS  
RETROVIRUS INFECTIONS  
TOGAVIRUS INFECTIONS
- C3 CHAGAS CARDIOMYOPATHY (C14)
- C4 CONJUNCTIVAL NEOPLASMS (C11)  
GARDNER SYNDROME (C6, C16)  
HYPOTHALAMIC NEOPLASMS (C10)  
PANCREATIC PSEUDOCYST (C6)  
SUBMANDIBULAR GLAND NEOPLASMS (C7)  
UVEAL NEOPLASMS (C11)
- C5 COCKAYNE SYNDROME (C16, C19, F3)  
COMPARTMENT SYNDROMES (C14)  
FASCIITIS
- C6 BARRETT ESOPHAGUS (C16)  
BILE REFLUX  
GARDNER SYNDROME (C4, C16)  
GASTRITIS, ATROPHIC  
GASTRITIS, HYPERTROPHIC  
INTESTINAL PSEUDO-OBSTRUCTION,  
IDIOPATHIC  
PANCREATIC INSUFFICIENCY  
PANCREATIC PSEUDOCYST (C4)  
PELIOSIS HEPATIS  
SHORT BOWEL SYNDROME (C23)

|     |                                                                                                                                                                                                |     |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C7  | SUBMANDIBULAR GLAND DISEASES<br>SUBMANDIBULAR GLAND NEOPLASMS (C4)                                                                                                                             | D24 | ANTIGENS, IMMUNE RESPONSE<br>HEPATITIS B E ANTIGENS                                                                                                                                                                                                                                                                                                                                                   |
| C10 | AUTONOMIC NERVOUS SYSTEM DISEASES<br>CRANIAL NERVE DISEASES<br>FACIAL NERVE DISEASES<br>HYPOTHALAMIC DISEASES<br>HYPOTHALAMIC NEOPLASMS (C4)<br>SHY-DRAGER SYNDROME (C14)<br>THALAMIC DISEASES | D25 | LATEX                                                                                                                                                                                                                                                                                                                                                                                                 |
| C11 | CONJUNCTIVAL DISEASES<br>CONJUNCTIVAL NEOPLASMS (C4)<br>IRIS DISEASES<br>ORBITAL DISEASES<br>UVEAL NEOPLASMS (C4)                                                                              | D26 | CHROMOGENIC COMPOUNDS                                                                                                                                                                                                                                                                                                                                                                                 |
| C14 | CHAGAS CARDIOMYOPATHY (C3)<br>COMPARTMENT SYNDROMES (C5)<br>SHY-DRAGER SYNDROME (C10)                                                                                                          | E1  | CHOLANGIOPANCREATOGRAPHY,<br>ENDOSCOPIC RETROGRADE<br>COLONOSCOPY<br>DUODENOSCOPY                                                                                                                                                                                                                                                                                                                     |
| C16 | BARRETT ESOPHAGUS (C6)<br>COCKAYNE SYNDROME (C5, C19, F3)<br>GARDNER SYNDROME (C4, C6)                                                                                                         | E2  | PLASMA EXCHANGE<br>SELF CARE (N2)                                                                                                                                                                                                                                                                                                                                                                     |
| C17 | CANDIDIASIS, CHRONIC<br>MUCOCUTANEOUS (C1)<br>PEMPHIGOID, BENIGN MUCOUS<br>MEMBRANE<br>PEMPHIGOID, BULLOUS                                                                                     | E4  | PERITONEOVENOUS SHUNT<br>PORTASYSTEMIC SHUNT, SURGICAL<br>SPLENORENAL SHUNT, SURGICAL<br>VAGOTOMY, PROXIMAL GASTRIC                                                                                                                                                                                                                                                                                   |
| C19 | COCKAYNE SYNDROME (C5, C16, F3)<br>PUBERTY, DELAYED                                                                                                                                            | E5  | MUTAGENICITY TESTS                                                                                                                                                                                                                                                                                                                                                                                    |
| C21 | EXTRAVASATION OF CONTRAST MEDIA<br>(C23)                                                                                                                                                       | E7  | IMPLANTS, ARTIFICIAL                                                                                                                                                                                                                                                                                                                                                                                  |
| C23 | EXTRAVASATION OF CONTRAST MEDIA<br>(C21)<br>SHORT BOWEL SYNDROME (C6)                                                                                                                          | F1  | ADOLESCENT BEHAVIOR<br>STEREOTYPING                                                                                                                                                                                                                                                                                                                                                                   |
| D19 | BLOOD SUBSTITUTES                                                                                                                                                                              | F3  | AFFECTIVE DISORDERS<br>AFFECTIVE DISORDERS, PSYCHOTIC<br>BORDERLINE PERSONALITY DISORDER<br>CANNABIS ABUSE<br>CHILD DEVELOPMENT DISORDERS,<br>PERVASIVE<br>COCKAYNE SYNDROME (C5, C16, C19)<br>DEMENTIA<br>DEPRESSIVE DISORDER<br>FACTITIOUS DISORDERS<br>HOMOSEXUALITY, EGO-DYSTONIC<br>HYPERPHAGIA<br>IMPULSE CONTROL DISORDERS<br>MANIC DISORDER<br>ORGANIC MENTAL DISORDERS,<br>SUBSTANCE-INDUCED |

|                                                                                                                                                                                                                                                    |                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <p>F3 (con'd)<br/>           PHENCYCLIDINE ABUSE<br/>           PSYCHOSEXUAL DISORDERS<br/>           PSYCHOSEXUAL DYSFUNCTIONS<br/>           SOMATOFORM DISORDERS<br/>           SUBSTANCE USE DISORDERS<br/>           TOBACCO USE DISORDER</p> | <p>G11<br/>           BLINKING</p>                                                                                             |
| <p>G5<br/>           GENE EXPRESSION REGULATION<br/>           LOD SCORE<br/>           REPETITIVE SEQUENCES, NUCLEIC<br/>           ACID (G6)</p>                                                                                                 | <p>I1<br/>           ASIAN AMERICANS (M1)<br/>           PHYSICIAN IMPAIRMENT (N3)</p> <p>I2<br/>           TEXTBOOKS (L1)</p> |
| <p>G6<br/>           REPETITIVE SEQUENCES, NUCLEIC<br/>           ACID (G5)</p>                                                                                                                                                                    | <p>L1<br/>           TEXTBOOKS (I2)</p> <p>M1<br/>           ASIAN AMERICANS (I1)</p>                                          |
| <p>G8<br/>           FETAL ORGAN MATURITY<br/>           MATERNAL AGE 35 AND OVER</p>                                                                                                                                                              | <p>N2<br/>           SELF CARE (E2)</p> <p>N3<br/>           PHYSICIAN IMPAIRMENT (I1)</p>                                     |
| <p>G9<br/>           PULMONARY WEDGE PRESSURE<br/>           SPLANCHNIC CIRCULATION</p>                                                                                                                                                            |                                                                                                                                |

## CATALOGING SUBHEADING ADDITIONS, CHANGES, AND DELETIONS - 1981

### New Form Subheadings - 1981

Although the following subheading combinations were established during 1980, they are new to the 1981 edition of MeSH. The 1980 versions were inverted, e.g., slides - atlases, except for nursing texts - filmstrips. Starting in 1981, the new version, giving bibliographic form first and medium form last, must be used to search all citations cataloged using the 1980 inverted version.

|                              |                               |
|------------------------------|-------------------------------|
| atlases - slides             | nomenclature - videocassettes |
| biography - motion pictures  | nursing texts - filmstrips    |
| legislation - audiocassettes | phrases - videocassettes      |
| legislation - filmstrips     | statistics - audiocassettes   |
| legislation - slides         | terminology - audiocassettes  |
| legislation - videocassettes | terminology - slides          |

### Form Subheading Changes - 1981

Double form subheadings previously used in audiovisual cataloging have been inverted to give the bibliographic form first and the medium form last. Starting in 1981, the 1981 subheading must be used to search all citations cataloged using the 1980 version.

#### 1980 Subheading

audiocassettes - abstracts  
audiocassettes - biography  
audiocassettes - congresses  
audiocassettes - periodicals  
audiotapes - periodicals  
microfiche - periodicals  
phrase books  
videocassettes - biography  
videocassettes - congresses  
videocassettes - periodicals

#### 1981 Subheading

abstracts - audiocassettes  
biography - audiocassettes  
congresses - audiocassettes  
periodicals - audiocassettes  
periodicals - audiotapes  
periodicals - microfiche  
phrases  
biography - videocassettes  
congresses - videocassettes  
periodicals - videocassettes

### Deleted Form Subheadings - 1981

The following subheadings are obsolete and have no citations cataloged under them.

phonodiscs - catalogs  
phonorecord catalogs

### New Geographic Subheadings - 1981

Although the following subheadings were established during 1980, they are new to the 1981 edition of MeSH.

Gaul  
Gilbert and Ellice Islands Colony  
Malta

### Geographic Subheading Changes - 1981

Starting in 1981, the 1981 subheading must be used to search all citations cataloged using the 1980 version.

| <u>1980 Subheading</u> | <u>1981 Subheading</u> |
|------------------------|------------------------|
| Gt. Brit.              | Great Britain          |
| Surinam                | Suriname               |
| U. S.                  | United States          |
| Zimbabwe Rhodesia      | Zimbabwe               |

### New Language Subheadings - 1981

Although the following subheadings were established during 1980, they are new to the 1981 edition of MeSH.

Macedonian  
Slovak  
Slovenian  
Uzbek

### Language Subheading Changes - 1981

Starting in 1981, the 1981 subheading must be used to search all citations cataloged using the 1980 version.

| <u>1980 Subheading</u> | <u>1981 Subheading</u> |
|------------------------|------------------------|
| Gaelic                 | Gaelic (Scots)         |

### Deleted Language Subheadings - 1981

Piman - Starting in 1981, the subheading Central American Indian (Other) must be used to search all citations cataloged under Piman.

| PRINT HEADING                 | 1980 MESH TREE NUMBER                                                                  | 1981 MESH TREE NUMBER                                                                  |
|-------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| son Leukemia Virus            | B4.909.574.449.674.632.41<br>B4.909.777.449.674.632.41<br>B4.909.777.779.674.632.41    | B4.909.574.807.674.632.41<br>B4.909.777.731.674.632.41<br>B4.909.777.779.674.632.41    |
| Acetaminophen                 | D2.65.199.92.40<br>D14.73.210                                                          | D2.65.199.92.40<br>D14.73.20                                                           |
| Adenolymphoma                 | C4.557.386.58<br>C4.557.537.53                                                         | C4.557.537.53                                                                          |
| African Horsesickness         | C2.782.791.142<br>C22.488.88                                                           | C2.782.791.142<br>C2.81.30<br>C22.488.88                                               |
| African Swine Fever           | C2.256.142<br>C22.905.72                                                               | C2.256.142<br>C2.81.40<br>C22.905.72                                                   |
| Agoraphobia                   | F3.709.438.802.143                                                                     | F3.709.438.180.508.80                                                                  |
| AKR Virus                     | B4.909.574.449.674.632.100<br>B4.909.777.449.674.632.100<br>B4.909.777.779.674.632.100 | B4.909.574.807.674.632.100<br>B4.909.777.731.674.632.100<br>B4.909.777.779.674.632.100 |
| Alcoholic Intoxication        | C21.613.53                                                                             | C21.613.53<br>F3.709.508.490.80                                                        |
| Alcoholism                    | C21.613.53.270<br>F3.709.597.35                                                        | C21.613.53.270<br>F3.709.597.780.660.80                                                |
| Alkylating Agents             | D22.204.57                                                                             | D26.550.25                                                                             |
| alpha-Chlorohydrin            | D2.33.440.250<br>D2.33.618.706.320<br>D7.360.443.310                                   | D2.33.440.250<br>D2.33.618.706.320<br>D7.360.443.200                                   |
| Amnioplasty                   | E4.833.800.180<br>E4.892.800.180<br>E6.892.800.180                                     | E4.833.800.180<br>E6.892.800.180                                                       |
| Alzheimer's Disease           | C10.228.140.382.190<br>F3.709.618.207.190                                              | C10.228.140.382.190<br>F3.709.680.610.392.300.60                                       |
| Amblystoma                    | B2.90.655.123                                                                          | B2.90.608.80.68                                                                        |
| Ameloblastoma                 | C4.557.537.789.149<br>C5.499.690.100                                                   | C4.557.537.789.149<br>C5.500.499.690.100                                               |
| Anaphase                      | G4.335.184.220.60<br>G5.148.168.220.60<br>G7.553.251.220.60                            | G4.335.135.220.225.60<br>G5.148.165.220.225.60<br>G7.553.135.220.225.60                |
| Angiotensin III               | D12.644.456.73.53<br>D24.185.798.32.53                                                 | D12.644.456.73.41.40<br>D24.185.798.32.53                                              |
| Aniline Mustard               | D2.455.526.728.650.50<br>D22.204.57.649.62                                             | D2.455.526.728.650.50<br>D22.204.585.62                                                |
| Annual Implementation Plans   | N3.349.650.480.80                                                                      | N3.349.650.270.80                                                                      |
| Anorexia Nervosa              | F3.709.692.200                                                                         | F3.126.72.68                                                                           |
| Anterior Compartment Syndrome | C5.651.63<br>C14.907.553.284                                                           | C5.651.180.63<br>C14.907.553.241.63                                                    |
| Antigens, Surface             | D24.611.216.400                                                                        | D24.611.216.301                                                                        |
| Anxiety, Castration           | F3.709.438.584.205                                                                     | F3.709.438.180.80                                                                      |
| ety, Separation               | F1.470.132.289                                                                         | F3.234.80                                                                              |

| FRUIT HEADING                     | 1980 MESH TREE NUMBER                                                          | 1981 MESH TREE NUMBER                                                             |
|-----------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                   | F3.709.438.584.372                                                             | F3.709.438.180.110                                                                |
| Apeu Virus                        | B4.909.777.70.100                                                              | B4.909.777.147.70                                                                 |
| Appetite Disorders                | C23.888.102                                                                    | C23.888.102<br>F3.126.72                                                          |
| Arbovirus Infections              | C2.782.74                                                                      | C2.81                                                                             |
| Arboviruses                       | B4.909.777.70                                                                  | B4.909.80                                                                         |
| Articulation Disorders            | C10.597.843.171<br>C23.888.592.852.171<br>F3.126.867.171                       | C10.597.843.171<br>C23.888.592.852.171<br>F3.126.867.171<br>F3.305.100            |
| Astrocytes                        | A8.561.646.213<br>A10.755.713.213<br>A11.671.603.213                           | A11.671.603.213                                                                   |
| Autokinetic Effect                | F2.463.593.446.215<br>F3.126.185.794.534.298                                   | F2.463.593.446.215                                                                |
| Avenaciolide                      | D2.540.80<br>D20.85.62.206                                                     | D2.540.80                                                                         |
| Avian Leukosis                    | C2.782.115<br>C2.928.120<br>C4.557.337.372.216<br>C4.619.531.216<br>C22.131.94 | C2.782.815.96<br>C2.928.120<br>C4.557.337.372.216<br>C4.619.531.216<br>C22.131.94 |
| Avian Leukosis Viruses            | B4.909.574.449.112.175<br>B4.909.777.449.112.175                               | B4.909.574.807.112.175<br>B4.909.777.731.112.175                                  |
| Avian Leukosis-Sarcoma Viruses    | B4.909.574.449.112<br>B4.909.777.449.112                                       | B4.909.574.807.112<br>B4.909.777.731.112                                          |
| Avian Reticuloendotheliosis Virus | B4.909.574.449.190<br>B4.909.777.449.150                                       | B4.909.574.807.190<br>B4.909.777.731.150                                          |
| Barbados                          | Z1.107.904.250                                                                 | Z1.107.904.140                                                                    |
| Base Sequence                     | G6.184.130                                                                     | G5.331.112<br>G6.184.130                                                          |
| BCG Vaccine                       | D24.310.894.135.847<br>D24.611.59.102                                          | D24.310.894.135.128<br>D24.611.59.102                                             |
| beta-Cycloplazionate Oxidocyclase | D8.586.682.275                                                                 | D8.586.682.200                                                                    |
| Bioprosthesis                     | E4.659.140<br>E7.858.565.140                                                   | E4.659.140<br>E7.450.100<br>E7.858.565.140                                        |
| Blood Vessel Prosthesis           | E4.659.164<br>E4.752.814.264<br>E7.858.565.164                                 | E4.659.164<br>E4.752.814.264<br>E7.450.130<br>E7.858.565.164                      |
| Blue Tongue                       | C2.782.791.315<br>C22.836.120                                                  | C2.782.791.315<br>C2.81.125<br>C22.836.120                                        |
| Bone Cements                      | D25.720.716.822.111.315<br>D26.16.125                                          | D25.720.716.822.300<br>D26.16.125                                                 |
| Bone Nails                        | E7.858.442.660.149                                                             | E7.450.160<br>E7.858.442.660.149                                                  |
| Bone Plates                       | E7.858.442.660.232                                                             | E7.450.180<br>E7.858.442.660.232                                                  |



| PRINT HEADING                           | 1980 MESH TREE NUMBER                                  | 1981 MESH TREE NUMBER                                                                                                          |
|-----------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Scabies                                 | E7.858.442.660.315                                     | E7.450.200<br>E7.858.442.660.315                                                                                               |
| Borna Disease                           | C2.782.74.113<br>C22.152                               | C2.81.135<br>C22.152                                                                                                           |
| Borna Disease Virus                     | B4.909.777.70.322.55                                   | B4.909.920.140                                                                                                                 |
| Bovine Diarrhea Virus                   | B4.909.777.180                                         | B4.909.777.923.723.133                                                                                                         |
| Bovine Leukemia Virus                   | B4.909.777.449.250<br>B4.909.574.449.250               | B4.909.574.807.250<br>B4.909.777.701.250                                                                                       |
| Bovine Virus Diarrhea-Mucosal Disease   | C2.782.167<br>C22.196.106                              | C2.782.730.140<br>C22.196.106                                                                                                  |
| Bowen's Disease                         | C4.557.117.296.318                                     | C4.557.117.490.318                                                                                                             |
| Bromodeoxyuridine                       | D13.570.230.430.196<br>D13.570.685.852.300.150         | D13.570.230.430.196<br>D13.570.685.852.300.150<br>D26.87.122                                                                   |
| Bromouracil                             | D3.383.742.698.875.237<br>D5.569.468.321<br>D26.87.131 | D3.383.742.698.875.237<br>D26.87.131                                                                                           |
| Brown Fat                               | A10.165.114.322<br>A13.147                             | A10.165.114.322                                                                                                                |
| Bufo Arenarum                           | B2.90.833.239.197                                      | B2.90.180.210.80                                                                                                               |
| Bufo Bufo                               | B2.90.833.239.322                                      | B2.90.180.210.108                                                                                                              |
| in Marinus                              | B2.90.833.239.447                                      | B2.90.180.210.580                                                                                                              |
| Amhera Group Viruses                    | B4.909.777.70.110                                      | B4.909.777.147.147                                                                                                             |
| Busulfan                                | D22.204.57.198                                         | D2.241.866.540.121.537.200<br>D2.455.326.146.92.537.200<br>D2.455.326.146.571.537.200<br>D2.886.610.121.537.200<br>D22.204.232 |
| C-Type Viruses                          | B4.909.574.449.270<br>B4.909.777.449.270               | B4.909.574.807.270<br>B4.909.777.731.270                                                                                       |
| California Group Viruses                | B4.909.777.70.322.100                                  | B4.909.777.147.160<br>B4.909.777.270.100                                                                                       |
| Cannibalism                             | F1.145.407.100<br>I1.76.201.450.324.150                | F1.145.113.188<br>I1.76.201.450.324.150<br>F1.145.140                                                                          |
| Capim Group Viruses                     | B4.909.777.70.130                                      | B4.909.777.147.170                                                                                                             |
| Carbonyl Phosphate Synthase (Ammonia)   | D8.586.913.696.729.130                                 | D8.586.464.250                                                                                                                 |
| Carbonyl Phosphate Synthase (Glutamine) | D8.586.913.696.729.135                                 | D8.586.464.255                                                                                                                 |
| Carbazilquinone                         | D2.806.180<br>D3.383.97.217.300<br>D22.204.57.222      | D2.806.180<br>D3.383.97.217.300<br>D22.204.337                                                                                 |
| Carcinoma 256, Walker                   | C4.557.117.545<br>C4.619.260                           | C4.557.117.45<br>C4.619.45                                                                                                     |
| Carmustine                              | D2.654.692.247<br>D2.948.594.247<br>D22.204.57.247     | D2.654.692.247<br>D2.948.594.247<br>D22.204.342                                                                                |
| Colloid Body Tumor                      | C4.557.652.798.248                                     | C4.557.652.798.248<br>C4.557.690.387.156                                                                                       |

| PRINT HEADING                 | 1980 MESH TREE NUMBER                                    | 1981 MESH TREE NUMBER                                             |
|-------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|
| Cascara                       | D19.316.396.247                                          | D4.615.117.159.205<br>D19.316.396.247                             |
| CB 1954                       | D3.383.97.217.325<br>D22.204.57.262                      | D3.383.97.217.325<br>D22.204.347                                  |
| Cell Cycle                    | G4.335.184.220<br>G5.148.168.220<br>G7.553.251.220       | G4.335.135<br>G5.148.165<br>G7.553.135                            |
| Cell Division                 | G4.335.184<br>G5.148.168<br>G7.553.251                   | G4.335.135.220<br>G5.148.165.220<br>G7.553.135.220                |
| Cercopithecus                 | B2.649.801.201.629.320                                   | B2.649.801.201.468.480                                            |
| Cetomacrogol                  | D2.33.618.690.200<br>D25.720.741.250<br>D26.866.200      | D2.33.618.690.200<br>D25.720.741.250<br>D26.866.762.171           |
| Cetrimonium Compounds         | D2.92.102.190<br>D2.675.276.190<br>D26.866.220           | D2.92.102.190<br>D2.675.276.190<br>D20.187.137<br>D26.866.265.190 |
| Cetylpyridinium               | D3.383.725.762.232<br>D20.187.145                        | D3.383.725.762.232<br>D20.187.145<br>D26.866.265.200              |
| Chicken Sarcoma Virus B77     | B4.909.574.449.112.737.200<br>B4.909.777.449.112.737.200 | B4.909.574.807.112.737.200<br>B4.909.777.731.112.737.200          |
| Chikungunya Virus             | B4.909.777.70.175                                        | B4.909.777.923.54.198                                             |
| Chlorambucil                  | D2.455.526.728.650.156<br>D22.204.57.649.156             | D2.455.526.728.650.156<br>D22.204.585.186                         |
| Choroid Neoplasms             | C4.588.364.223<br>C11.319.265                            | C4.588.364.978.223<br>C11.319.494.198<br>C11.941.855.198          |
| Chromomycins                  | D9.203.408.224<br>D20.85.75.302<br>D22.204.106.307       | D20.85.75.302<br>D22.204.106.307<br>D26.408.348.199               |
| Clonidine                     | D3.383.374.165<br>D16.848.115.168<br>D18.162.170         | D3.383.374.165<br>D18.162.170                                     |
| Cochlear Aqueduct             | A9.246.631.201                                           | A9.246.631.280                                                    |
| Coconut                       | J1.341.739.271                                           | B6.510.300<br>J1.341.739.271                                      |
| Colobus                       | B2.649.801.201.629.330                                   | B2.649.801.201.468.510                                            |
| Colorado Tick Fever           | C2.782.791.482                                           | C2.782.791.482<br>C2.81.220                                       |
| Complement 3 Nephritic Factor | D12.776.124.486.274.920.400<br>D24.611.333.920.400       | D12.776.124.486.274.920.300<br>D24.611.333.920.300                |
| Compulsive Behavior           | F1.145.239<br>F3.126.208                                 | F1.145.527.100<br>F3.126.517.100                                  |
| Computer Assisted Instruction | I2.903.208<br>L1.382.119.637.358<br>L1.524.308           | I2.903.573.208<br>L1.382.119.637.358<br>L1.524.308                |
| Congo Virus                   | B4.909.777.70.190                                        | B4.909.777.147.185                                                |
| Conjunctivitis                | C11.183                                                  | C11.187.183                                                       |

| PRINT HEADING                           | 1980 MESH TREE NUMBER                                                                 | 1981 MESH TREE NUMBER                                                                |
|-----------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| conjunctivitis, Inclusion               | C1.850.200.195.205<br>C11.183.180                                                     | C1.850.200.195.205<br>C11.187.183.180                                                |
| Contact Inhibition                      | G4.335.184.235                                                                        | G4.335.355                                                                           |
| Cri-du-Chat Syndrome                    | C10.496.151<br>C16.131.280.216.282<br>F3.709.346.161                                  | C10.496.151<br>C16.131.77.262<br>F3.709.346.161                                      |
| Crossing Over (Genetics)                | G5.148.168.260<br>G5.832.260                                                          | G5.148.301<br>G5.832.260                                                             |
| Cyclophosphamide                        | D2.455.526.728.650.730.243<br>D2.705.670.243<br>D22.204.57.649.748.243<br>D22.569.518 | D2.455.526.728.650.730.243<br>D2.705.670.243<br>D22.204.585.748.243<br>D22.569.518   |
| Dacarbazine                             | D2.925.200<br>D3.383.374.240<br>D22.204.57.269                                        | D2.925.200<br>D3.383.374.240<br>D22.204.367                                          |
| Delirium                                | C10.597.332<br>C23.888.592.324<br>F3.126.185.259                                      | C10.597.332<br>C23.888.592.324<br>F3.126.185.259<br>F3.709.680.610.308               |
| Delusions                               | F3.126.185.304                                                                        | F3.126.185.304<br>F3.709.680.610.360                                                 |
| Dementia, Presenile                     | C10.228.140.382<br>F3.709.818.207                                                     | C10.228.140.382<br>F3.709.680.610.392.300                                            |
| Dementia, Senile                        | C10.228.140.827<br>F3.709.818.280                                                     | C10.228.140.390<br>F3.709.680.610.392.360                                            |
| Dengue                                  | C2.782.74.214<br>C2.782.417.214                                                       | C2.782.417.214<br>C2.782.930.270<br>C2.81.270                                        |
| Dengue Virus                            | B4.909.777.70.249                                                                     | B4.909.777.923.377.270                                                               |
| Depression                              | F3.126.56.463<br>F3.709.438.175                                                       | F3.126.56.463                                                                        |
| Detergents                              | D26.866.381<br>J1.516.381                                                             | D26.866.265<br>J1.516.381                                                            |
| Diacetyldiphenylurea Bisguanylhydrazone | D2.65.199.326.225<br>D2.948.684.202.225<br>D3.438.759.758.399.454.425<br>D22.204.410  | D2.65.199.326.225<br>D2.948.684.202.225<br>D3.438.759.758.399.454.425<br>D22.204.382 |
| Dianhydrogalactitol                     | D2.33.800.256.350<br>D9.203.853.256.350<br>D22.204.57.275                             | D2.33.800.256.350<br>D9.203.853.256.350<br>D22.204.396                               |
| Diazoacetylglycine Amide                | D2.172.350<br>D12.125.481.200<br>D22.204.57.320<br>D22.569.580                        | D2.172.350<br>D12.125.481.200<br>D22.204.408<br>D22.569.580                          |
| Diphenylcarbazide                       | D2.845.518.250<br>D26.550.265                                                         | D2.845.250<br>D26.550.265                                                            |
| Diving                                  | G3.230.150.150                                                                        | G3.230.150.150<br>I3.450.642.845.869.110                                             |
| Insertion Elements                      | G5.331.150<br>G5.832.290                                                              | G5.331.112.250<br>G5.832.290                                                         |
| Down's Syndrome                         | C10.496.250<br>C16.131.280.216.350                                                    | C10.496.250<br>C16.131.77.327                                                        |

| PRINT HEADING                         | 1980 MESH TREE NUMBER                                                   | 1981 MESH TREE NUMBER                                                                 |
|---------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                       | F3.709.346.200                                                          | F3.709.346.200                                                                        |
| Drosophila                            | B1.131.617.289.368.268                                                  | B1.131.617.289.308                                                                    |
| Drosophila Melanogaster               | B1.131.617.289.368.268.393                                              | B1.131.617.289.308.300                                                                |
| Dyspareunia                           | C13.371.665.313<br>C13.371.894.217<br>F3.126.286<br>F3.709.692.749.271  | C13.371.665.313<br>C13.371.894.217<br>F3.126.286<br>F3.709.597.608.780.410            |
| Encephalitis Virus, Eastern Equine    | B4.909.777.70.322.150                                                   | B4.909.777.270.150<br>B4.909.777.923.54.320                                           |
| Encephalitis Virus, Japanese          | B4.909.637.256<br>B4.909.777.70.322.227                                 | B4.909.637.256<br>B4.909.777.270.227<br>B4.909.777.923.377.320                        |
| Encephalitis Virus, St. Louis         | B4.909.637.356<br>B4.909.777.70.322.298                                 | B4.909.637.356<br>B4.909.777.270.298<br>B4.909.777.923.377.330                        |
| Encephalitis Virus, Venezuelan Equine | B4.909.777.70.322.369                                                   | B4.909.777.270.369<br>B4.909.777.923.54.340                                           |
| Encephalitis Virus, Western Equine    | B4.909.777.70.322.440                                                   | B4.909.777.270.440<br>B4.909.777.923.54.360                                           |
| Encephalitis Viruses                  | B4.909.777.70.322                                                       | B4.909.777.270                                                                        |
| Encephalitis Viruses, Tick-Borne      | B4.909.777.70.322.511                                                   | B4.909.777.270.511<br>B4.909.777.923.377.350                                          |
| Encephalitis, California              | C2.782.74.290.200                                                       | C2.782.930.340<br>C2.81.343.340                                                       |
| Encephalitis, Epidemic                | C2.782.74.290<br>C10.228.140.437.238<br>C10.228.228.245.322             | C2.81.343<br>C10.228.140.437.238<br>C10.228.228.245.322                               |
| Encephalitis, Japanese B              | C2.782.74.290.280<br>C10.228.140.437.238.255<br>C10.228.228.245.322.280 | C2.782.930.345<br>C2.81.343.345<br>C10.228.140.437.238.255<br>C10.228.228.245.322.280 |
| Encephalitis, St. Louis               | C2.782.74.290.406<br>C10.228.140.437.238.356<br>C10.228.228.245.322.406 | C2.782.930.350<br>C2.81.343.350<br>C10.228.140.437.238.356<br>C10.228.228.245.322.406 |
| Encephalitis, Tick-Borne              | C2.782.74.290.531<br>C10.228.140.437.238.456<br>C10.228.228.245.322.531 | C2.782.930.360<br>C2.81.343.360<br>C10.228.140.437.238.456<br>C10.228.228.245.322.531 |
| Encephalomyelitis, Equine             | C2.782.74.336<br>C10.228.228.291.323<br>C10.228.440.406                 | C2.782.930.370<br>C2.81.355<br>C10.228.228.291.323<br>C10.228.440.406                 |
| Encephalomyelitis, Venezuelan Equine  | C2.782.74.336.325<br>C10.228.228.291.323.325<br>C10.228.440.406.325     | C2.81.355.355<br>C2.782.930.370.370<br>C10.228.228.291.323.325<br>C10.228.440.406.325 |
| Enuresis                              | C12.777.934.284<br>F1.272.259<br>F3.305.259                             | C12.777.934.284<br>F3.126.328                                                         |
| Enzyme Induction                      | G5.331.294                                                              | G5.331.380.294                                                                        |
| Enzyme Repression                     | G5.331.340                                                              | G5.331.380.340                                                                        |

| PRINT HEADING                 | 1980 MESH TREE NUMBER                                                                                                             | 1981 MESH TREE NUMBER                                                                                                          |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Eosinophilic Granuloma        | C5.116.391<br>C15.604.667.490.360<br>C23.484.243                                                                                  | C5.116.391<br>C15.378.553.231.348<br>C15.604.667.490.360<br>C23.484.243                                                        |
| Erythroblastosis Virus, Avian | B4.909.574.449.112.175.263<br>B4.909.777.449.112.175.263                                                                          | B4.909.574.807.112.175.263<br>B4.909.777.731.112.175.263                                                                       |
| Estramustine                  | D2.455.526.728.650.275<br>D4.808.365.415.248.320<br>D22.204.57.649.270                                                            | D2.455.526.728.650.275<br>D4.808.365.415.248.320<br>D22.204.585.342                                                            |
| Ethoglucid                    | D2.355.354<br>D22.204.57.416                                                                                                      | D2.355.354<br>D22.204.416                                                                                                      |
| Ethyl Methanesulfonate        | D2.241.866.540.121.537.300<br>D2.455.326.146.92.537.300<br>D2.455.326.146.571.537.300<br>D2.886.610.121.537.300<br>D22.204.57.430 | D2.241.866.540.121.537.300<br>D2.455.326.146.92.537.300<br>D2.455.326.146.571.537.300<br>D2.886.610.121.537.300<br>D22.204.418 |
| Exhibitionism                 | F3.709.597.840.160                                                                                                                | F3.709.597.608.700.190                                                                                                         |
| Eyelid Neoplasms              | C4.588.364.421<br>C11.338.526                                                                                                     | C4.588.364.421<br>C11.319.421<br>C11.338.526                                                                                   |
| Facial Neuralgia              | C10.772.204.234<br>C10.772.537.472                                                                                                | C10.772.204.266.234<br>C10.772.537.472                                                                                         |
| Facial Paralysis              | C10.597.622.214<br>C10.772.204.297<br>C23.888.592.636.214                                                                         | C10.597.622.214<br>C10.772.204.266.297<br>C23.888.592.636.214                                                                  |
| Fascy                         | F1.393.351<br>F2.463.188.634.507<br>F3.126.185.399<br>F3.407.351                                                                  | F1.393.351<br>F2.463.188.634.507                                                                                               |
| Feline Fibrosarcoma Virus     | B4.909.777.449.300<br>B4.909.574.449.300                                                                                          | B4.909.574.807.300<br>B4.909.777.731.300                                                                                       |
| Feline Leukemia Virus         | B4.909.574.449.426<br>B4.909.777.449.426                                                                                          | B4.909.574.807.426<br>B4.909.777.731.426                                                                                       |
| Fetal Alcohol Syndrome        | C13.703.277.80<br>C16.614.330.80<br>C21.613.53.270.397<br>F3.709.597.35.408                                                       | C13.703.277.80<br>C16.614.330.80<br>C21.613.53.270.397                                                                         |
| Fetishism (Psychiatric)       | F3.709.597.840.210                                                                                                                | F3.709.597.608.700.260                                                                                                         |
| Filipin                       | D2.455.326.271.665.325<br>D20.85.62.400                                                                                           | D2.455.326.271.665.325<br>D20.85.62.400<br>D20.136.73.400                                                                      |
| Fingersucking                 | F1.145.466.263<br>F1.272.380<br>F3.305.380                                                                                        | F1.145.466.263<br>F3.234.193.308.428                                                                                           |
| Firesetting Behavior          | F3.126.208.275                                                                                                                    | F3.709.597.460.308                                                                                                             |
| Fluorescence                  | H1.671.606.542.306                                                                                                                | H1.671.768.369                                                                                                                 |
| Foamy Virus                   | B4.909.777.449.440                                                                                                                | B4.909.777.731.440                                                                                                             |
| Freons                        | D2.455.526.258<br>J1.516.66.380                                                                                                   | D2.455.526.258                                                                                                                 |
| Gamma Virus                   | B4.909.574.449.674.632.287<br>B4.909.777.449.674.632.287<br>B4.909.777.779.674.632.287                                            | B4.909.574.807.674.632.287<br>B4.909.777.731.674.632.287<br>B4.909.777.779.674.632.287                                         |

| PRINT HEADING                        | 1980 MESH TREE NUMBER                                                                               | 1981 MESH TREE NUMBER                                                                              |
|--------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Frigidity                            | C13.371.665.520<br>F3.126.387<br>F3.709.692.749.437                                                 | C13.371.665.520<br>F3.126.387<br>F3.709.597.608.780.480                                            |
| Gambling                             | F1.145.722.408                                                                                      | F1.145.722.408<br>F3.709.597.460.372                                                               |
| gamma-Glutamylcyclotransferase       | D8.586.913.50.585                                                                                   | D8.586.913.50.550                                                                                  |
| Ganglia, Sympathetic                 | A8.99.411<br>A8.99.893.477<br>A8.340.315.477                                                        | A8.99.370.411<br>A8.99.893.477<br>A8.340.315.477                                                   |
| Gene Amplification                   | E5.393.330<br>G5.331.350                                                                            | E5.393.330<br>G5.331.380.350                                                                       |
| Genes, Regulator                     | G5.275.470<br>G5.331.418                                                                            | G5.275.470<br>G5.331.380.418                                                                       |
| Gestational Age                      | G7.168.383<br>G7.553.417<br>G8.520.769.231                                                          | G7.168.383<br>G7.553.417<br>G8.520.340                                                             |
| Glass                                | J1.637.361                                                                                          | D25.720.400<br>J1.637.361                                                                          |
| Glomus Jugulare Tumor                | C4.557.652.798.530                                                                                  | C4.557.652.798.530<br>C4.557.690.387.412                                                           |
| Glycodeoxycholic Acid                | D4.808.221.430.342.400<br>D4.808.221.430.484.430<br>D12.125.481.366.420.<br>D19.316.246.225.272.411 | D4.808.221.430.342.400<br>D4.808.221.430.484.430<br>D12.125.481.366.420<br>D19.316.246.225.272.411 |
| Graffi Virus                         | B4.909.574.449.674.632.390<br>B4.909.777.449.674.632.390<br>B4.909.777.779.674.632.390              | B4.909.574.807.674.632.390<br>B4.909.777.731.674.632.390<br>B4.909.777.779.674.632.390             |
| Granacidins                          | D20.85.391<br>D20.85.905.452                                                                        | D20.85.905.452<br>D20.187.925.412                                                                  |
| Gross Virus                          | B4.909.574.449.674.632.403<br>B4.909.777.779.674.632.403<br>B4.909.777.449.674.632.403              | B4.909.574.807.674.632.403<br>B4.909.777.731.674.632.403<br>B4.909.777.779.674.632.403             |
| Group Practice, Prepaid              | N4.452.758.244.600                                                                                  | N4.452.758.244.400                                                                                 |
| Guama Group Viruses                  | B4.909.777.70.400                                                                                   | B4.909.777.147.415                                                                                 |
| Habits                               | F1.145.466                                                                                          | F1.145.466<br>F3.234.193.308                                                                       |
| Health Planning Technical Assistance | N3.349.330                                                                                          | N3.349.325                                                                                         |
| Health Priorities                    | N3.349.325                                                                                          | N3.349.330                                                                                         |
| Health Services Misuse               | N2.421.480                                                                                          | N2.421.380                                                                                         |
| Health Systems Plans                 | N3.349.650.480.310                                                                                  | N3.349.650.270                                                                                     |
| Heart Valve Prosthesis               | E4.659.459<br>E4.752.376.541<br>E4.920.490.520<br>E7.858.565.509                                    | E4.659.459<br>E4.752.376.541<br>E4.920.490.520<br>E7.450.500<br>E7.858.565.509                     |
| Heart, Artificial                    | E7.858.82.374<br>E7.858.565.458                                                                     | E7.450.470<br>E7.858.82.374<br>E7.858.565.458                                                      |
| Hemorrhagic Fever, American          | C2.782.417.400                                                                                      | C2.782.417.400<br>C2.782.82.440                                                                    |

| PRINT HEADING                    | 1980 MESH TREE NUMBER                                                                                               | 1981 MESH TREE NUMBER                                                                                            |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| hemorrhagic Fever, Crimean       | C2.782.74.415<br>C2.782.417.412                                                                                     | C2.782.147.444<br>C2.81.444<br>C2.782.417.412                                                                    |
| Hemorrhagic Fever, Omsk          | C2.782.74.435<br>C2.782.417.435                                                                                     | C2.782.930.460<br>C2.81.460<br>C2.782.417.435                                                                    |
| Hexamethylmelamine               | D3.383.931.380<br>D22.204.57.480                                                                                    | D3.383.931.380<br>D22.204.436                                                                                    |
| Hip Prosthesis                   | E4.557.168.530.490<br>E4.659.550.490<br>E7.858.442.499.490<br>E7.858.565.600.490                                    | E4.557.168.530.490<br>E4.659.550.490<br>E7.450.530.530<br>E7.858.442.499.490<br>E7.858.565.600.490               |
| Hog Cholera                      | C2.782.451<br>C22.905.553                                                                                           | C2.782.930.480<br>C22.905.553                                                                                    |
| Hog Cholera Virus                | B4.909.777.350                                                                                                      | B4.909.777.923.723.470                                                                                           |
| Horner's Syndrome                | C10.120.522<br>C11.600.555<br>C11.716.555                                                                           | C10.120.522<br>C11.627.555<br>C11.716.555                                                                        |
| Hospital Design and Construction | J1.86.555<br>N2.278.200.403                                                                                         | J1.86.339.250<br>N2.278.200.403                                                                                  |
| Houseflies                       | B1.131.617.289.368.474                                                                                              | B1.131.617.289.474                                                                                               |
| 2-Hydroxyphenethylamine          | D2.33.329.291.410<br>D2.92.63.291.410<br>D2.92.471.683.545<br>D16.538.122                                           | D2.33.329.291.410<br>D2.92.63.291.410<br>D2.92.471.683.545<br>D16.538.460                                        |
| Hypochondriasis                  | F3.126.451<br>F3.709.438.321                                                                                        | F3.126.451<br>F3.709.438.710.560                                                                                 |
| Hysteria                         | F3.126.473<br>F3.709.438.368                                                                                        | F3.126.473                                                                                                       |
| ICR 170                          | D2.455.526.728.650.400<br>D3.494.46.250.530<br>D22.204.57.649.370                                                   | D2.455.526.728.650.400<br>D3.494.46.250.530<br>D22.204.585.498                                                   |
| Ifosfamide                       | D2.455.526.728.650.730.500<br>D2.705.670.243.500<br>D3.383.533.500<br>D22.204.57.649.748.243.511<br>D22.569.518.511 | D2.455.526.728.650.730.500<br>D2.705.670.243.500<br>D3.383.533.500<br>D22.204.585.748.243.511<br>D22.569.518.511 |
| Imidazole Mustard                | D2.455.526.728.650.412<br>D3.383.374.430<br>D22.204.57.649.422                                                      | D2.455.526.728.650.412<br>D3.383.374.430<br>D22.204.585.507                                                      |
| Impotence                        | C12.294.644.486<br>F3.126.496<br>F3.709.692.749.611                                                                 | C12.294.644.486<br>F3.126.496<br>F3.709.597.608.780.580                                                          |
| Incest                           | F3.709.597.840.400                                                                                                  | I1.880.735.442                                                                                                   |
| Indians, North American          | I1.76.201.450.416.403<br>I1.880.143.522.403<br>M1.194.403                                                           | I1.76.201.450.416.403<br>I1.880.143.522.403<br>M1.194.403<br>M1.403.500                                          |
| Infrared Rays                    | G3.230.300.100.725.525.400<br>H1.671.768.638.348.365                                                                | G3.230.300.100.725.525.400<br>H1.671.768.638.508                                                                 |
| Interphase                       | G4.335.184.220.500<br>G5.148.168.220.500<br>G7.553.251.220.500                                                      | G4.335.135.500<br>G5.148.165.500<br>G7.553.135.500                                                               |
| Iridocyclitis                    | C11.941.447                                                                                                         | C11.941.500.447                                                                                                  |
| Iritis                           | C11.941.547                                                                                                         | C11.941.500.547                                                                                                  |

| PRINT HEADING                  | 1980 MESH TREE NUMBER                                                                  | 1981 MESH TREE NUMBER                                                                              |
|--------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Joint Prosthesis               | E4.557.168.530<br>E4.659.550<br>E7.858.442.499<br>E7.858.565.600                       | E4.557.168.530<br>E4.659.550<br>E7.450.530<br>E7.858.442.499<br>E7.858.565.600                     |
| Karaya Gum                     | D9.203.698.450<br>D19.316.396.510                                                      | D9.203.698.450<br>D19.316.396.510<br>D26.698.931.419.510                                           |
| Keratoconjunctivitis           | C11.183.394<br>C11.204.564.585                                                         | C11.187.183.394<br>C11.204.564.585                                                                 |
| Kirsten Sarcoma Virus          | B4.909.574.449.674.700.540<br>B4.909.777.449.674.700.540<br>B4.909.777.779.674.700.540 | B4.909.574.807.674.700.540<br>B4.909.777.731.674.700.540<br>B4.909.777.779.674.700.540             |
| Knee Prosthesis                | E4.557.168.530.540<br>E4.659.550.540<br>E7.858.442.499.540<br>E7.858.565.600.540       | E4.557.168.530.540<br>E4.659.550.540<br>E7.450.530.550<br>E7.858.442.499.540<br>E7.858.565.600.540 |
| Kyasanur Forest Disease        | C2.782.74.475<br>C2.782.417.475                                                        | C2.782.417.475<br>C2.782.930.540<br>C2.81.540                                                      |
| Kyasanur Forest Disease Virus  | B4.909.777.70.500                                                                      | B4.909.777.923.377.530                                                                             |
| Langat Virus                   | B4.909.777.70.525                                                                      | B4.909.777.923.377.550                                                                             |
| Language Development Disorders | C10.597.531.543<br>C23.888.592.531.543<br>F3.126.557.543                               | C10.597.531.543<br>C23.888.592.531.543<br>F3.126.557.543<br>F3.305.410                             |
| Lasers                         | H1.671.606.542.508<br>H1.671.768.638.348.508                                           | H1.671.606.552.548<br>H1.671.768.638.548                                                           |
| Lassa Fever                    | C2.782.417.505                                                                         | C2.782.417.505<br>C2.782.82.545                                                                    |
| Lenses, Intraocular            | E4.659.600<br>E4.792.600<br>E7.532.570<br>E7.858.565.650                               | E4.659.600<br>E4.792.600<br>E7.450.570<br>E7.532.570<br>E7.858.565.650                             |
| Leukapheresis                  | E2.95.135.640<br>E5.909.262.363.570                                                    | E2.110.570<br>E5.909.262.363.570                                                                   |
| Leukodystrophy, Globoid Cell   | C10.228.140.276.428<br>C10.228.337.144.512                                             | C10.228.140.276.428<br>C10.228.337.144.512<br>C18.452.648.556.641.803.585                          |
| Light                          | H1.671.606.542<br>H1.671.768.638.348                                                   | H1.671.606.552<br>H1.671.768.638.552                                                               |
| Liver Circulation              | G9.330.163.551                                                                         | G9.330.163.881.552                                                                                 |
| Loeffler's Syndrome            | C8.381.426                                                                             | C8.381.426<br>C15.378.553.231.560                                                                  |
| Lomustine                      | D2.654.692.440<br>D2.948.594.440<br>D22.204.57.553                                     | D2.654.692.440<br>D2.948.594.440<br>D22.204.493                                                    |
| Louping Ill                    | C2.782.74.290.531.519<br>C22.836.435                                                   | C2.782.930.360.555<br>C2.81.343.360.555<br>C22.836.435                                             |
| Louping Ill Virus              | B4.909.777.70.322.511.519                                                              | B4.909.777.270.511.519                                                                             |



| PRINT HEADING                 | 1980 MESH TREE NUMBER                                                                                                                                                        | 1981 MESH TREE NUMBER                                                                                                                                                     |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               |                                                                                                                                                                              | B4.909.777.923.377.350.567                                                                                                                                                |
| Luminescence                  | H1.671.606.542.644                                                                                                                                                           | H1.671.606.552.565                                                                                                                                                        |
| Lymphocytic Choriomeningitis  | C2.782.535<br>C10.228.228.507.616.521                                                                                                                                        | C2.782.82.580<br>C10.228.228.507.616.521                                                                                                                                  |
| Macaca                        | B2.649.801.201.629.605                                                                                                                                                       | B2.649.801.201.468.660                                                                                                                                                    |
| Macaca radiata                | B2.649.801.201.629.605.500                                                                                                                                                   | B2.649.801.201.468.660.590                                                                                                                                                |
| Mammary Cancer Virus          | B4.909.574.449.674.441<br>B4.909.777.449.674.441<br>B4.909.777.779.674.441                                                                                                   | B4.909.574.807.674.441<br>B4.909.777.731.674.441<br>B4.909.777.779.674.441                                                                                                |
| Mandibular Prosthesis         | E4.659.625<br>E4.833.566<br>E6.780.588<br>E6.892.566<br>E7.858.565.675                                                                                                       | E4.659.625<br>E4.833.566<br>E6.780.588<br>E6.892.566<br>E7.450.630<br>E7.858.565.675                                                                                      |
| Mannomustine                  | D2.455.526.728.650.463<br>D22.204.57.649.463                                                                                                                                 | D2.455.526.728.650.463<br>D22.204.585.581                                                                                                                                 |
| Mannosulfan                   | D2.33.800.609.470<br>D2.241.866.540.121.537.420<br>D2.455.326.146.92.537.420<br>D2.455.326.146.571.537.420<br>D2.886.610.121.537.420<br>D9.203.853.609.470<br>D22.204.57.562 | D2.33.800.609.470<br>D2.241.866.540.121.537.420<br>D2.455.326.146.92.537.420<br>D2.455.326.146.571.537.420<br>D2.886.610.121.537.420<br>D9.203.853.609.470<br>D22.204.520 |
| Masochism                     | F3.709.597.840.482                                                                                                                                                           | F3.709.597.608.700.490                                                                                                                                                    |
| Masturbation                  | F1.145.792.526<br>F3.126.208.527                                                                                                                                             | F1.145.792.526<br>F3.709.597.460.600                                                                                                                                      |
| Maxillofacial Prosthesis      | E4.659.678<br>E4.833.610<br>E6.780.653<br>E6.892.610<br>E7.858.565.728                                                                                                       | E4.659.678<br>E4.833.610<br>E6.780.653<br>E6.892.610<br>E7.450.660<br>E7.858.565.728                                                                                      |
| Mechlorethamine               | D2.455.526.728.650.529<br>D22.204.57.649.529                                                                                                                                 | D2.455.526.728.650.529<br>D22.204.585.602                                                                                                                                 |
| Medicine, Oriental            | K1.419.552.709                                                                                                                                                               | K1.419.684.660                                                                                                                                                            |
| Melosis                       | G4.335.184.531<br>G5.148.168.448<br>G7.553.251.448                                                                                                                           | G4.335.135.220.531<br>G5.148.165.220.531<br>G7.553.135.220.531                                                                                                            |
| Melkersson-Rosenthal Syndrome | C7.465.466<br>C10.772.204.297.593                                                                                                                                            | C7.465.466<br>C10.772.204.266.297.593                                                                                                                                     |
| Melphalan                     | D2.455.526.728.650.594<br>D22.204.57.649.594                                                                                                                                 | D2.455.526.728.650.594<br>D22.204.585.613                                                                                                                                 |
| Metaphase                     | G4.335.184.220.580<br>G5.148.168.220.580<br>G7.553.251.220.580                                                                                                               | G4.335.135.220.225.580<br>G5.148.165.220.225.580<br>G7.553.135.220.225.580                                                                                                |
| Methyl Methanesulfonate       | D2.241.866.540.121.537.450<br>D2.455.326.146.92.537.450<br>D2.455.326.146.571.537.450<br>D2.886.610.121.537.450<br>D22.204.57.570                                            | D2.241.866.540.121.537.450<br>D2.455.326.146.92.537.450<br>D2.455.326.146.571.537.450<br>D2.886.610.121.537.450<br>D22.204.525                                            |
| Methylmethacrylate            | D2.241.81.69.600.580<br>D25.720.716.822.689                                                                                                                                  | D2.241.81.69.800.550<br>D25.720.716.822.111.650.605                                                                                                                       |

| PRINT HEADING                 | 1980 MESH TREE NUMBER                                                                  | 1981 MESH TREE NUMBER                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Microwaves                    | H1.671.768.638.458                                                                     | H1.671.768.638.605                                                                           |
| Mithramycin                   | D9.203.408.544<br>D20.85.75.302.419<br>D22.204.106.307.419                             | D20.85.75.302.419<br>D22.204.106.307.419<br>D26.408.348.199.598                              |
| Mitobronitol                  | D2.33.800.609.500<br>D9.203.853.609.500<br>D22.204.57.605                              | D2.33.800.609.500<br>D9.203.853.609.500<br>D22.204.535                                       |
| Mitosis                       | G4.335.184.669<br>G5.148.168.627<br>G7.553.251.627                                     | G4.335.135.220.669<br>G5.148.165.220.669<br>G7.553.135.220.669                               |
| Mitotane                      | D2.455.526.439.681<br>D5.723.491.491.723<br>D22.204.578                                | D2.455.526.439.681<br>D5.723.491.491.723<br>D22.204.550                                      |
| Mitotic Index                 | E5.909.262.730<br>G4.335.184.669.600<br>G5.148.168.627.600<br>G7.553.251.627.600       | E5.909.262.730<br>G4.335.135.220.669.600<br>G5.148.165.220.669.600<br>G7.553.135.220.669.600 |
| Moloney Virus                 | B4.909.574.449.674.632.596<br>B4.909.777.449.674.632.596<br>B4.909.777.779.674.632.596 | B4.909.574.807.674.632.596<br>B4.909.777.731.674.632.596<br>B4.909.777.779.674.632.596       |
| Mouse Leukemia Viruses        | B4.909.574.449.674.632<br>B4.909.777.449.674.632<br>B4.909.777.779.674.632             | B4.909.574.807.674.632<br>B4.909.777.731.674.632<br>B4.909.777.779.674.632                   |
| Mouse Sarcoma Viruses         | B4.909.574.449.674.700<br>B4.909.777.449.674.700<br>B4.909.777.779.674.700             | B4.909.574.807.674.700<br>B4.909.777.731.674.700<br>B4.909.777.779.674.700                   |
| Mouse Tumor Viruses           | B4.909.574.449.674<br>B4.909.777.449.674<br>B4.909.777.779.674                         | B4.909.574.807.674<br>B4.909.777.731.674<br>B4.909.777.779.674                               |
| Multiple-Personality Disorder | F3.709.438.368.390.510                                                                 | F3.709.438.416.520                                                                           |
| Munchausen Syndrome           | F3.709.438.321.633                                                                     | F3.709.438.500.620                                                                           |
| Myeloblastosis Virus, Avian   | B4.909.574.449.112.175.703<br>B4.909.777.449.112.175.703                               | B4.909.574.807.112.175.703<br>B4.909.777.731.112.175.703                                     |
| Nail Biting                   | F1.145.466.554<br>F1.272.605<br>F3.305.605                                             | F1.145.466.554<br>F3.234.193.308.600                                                         |
| Nairobi Sheep Disease         | C2.782.74.576<br>C22.836.583                                                           | C2.782.147.633<br>C2.81.633<br>C22.836.583                                                   |
| Neurasthenia                  | F3.709.438.492                                                                         | F3.709.438.100.410.500                                                                       |
| Neurocirculatory Asthenia     | F3.709.438.537                                                                         | F3.709.438.180.400                                                                           |
| Neuroglia                     | A8.561.646<br>A10.755.713<br>A11.671.603                                               | A11.671.603                                                                                  |
| Nitrogen Mustard Compounds    | D2.455.526.728.650<br>D22.204.57.649                                                   | D2.455.526.728.650<br>D22.204.585                                                            |
| Nitromifene                   | D3.383.773.610<br>D3.347.300.500                                                       | D3.303.773.610<br>D6.347.300.500                                                             |
| Nogalamycin                   | D4.615.597.550<br>D9.203.408.51.630<br>D20.85.75.655<br>D22.204.106.685                | D4.615.597.550<br>D9.203.408.51.212.655<br>D20.85.75.354.655<br>D22.204.106.356.655          |

| PRINT HEADING                                 | 1980 MESH TREE NUMBER                                                | 1981 MESH TREE NUMBER                                                    |
|-----------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------|
| Obsessive Behavior                            | F1.145.239.571<br>F3.126.208.696                                     | F1.145.527.508<br>F3.126.517.508                                         |
| Oligodendroglia                               | A8.561.646.657<br>A10.755.713.657<br>A11.671.603.657                 | A11.671.603.657                                                          |
| Ophthalmia Neonatorum                         | C1.252.391.658<br>C11.183.538<br>C16.614.677                         | C1.252.391.658<br>C11.187.183.538<br>C16.614.677                         |
| Orbital Neoplasms                             | C4.588.656<br>C11.319.659                                            | C4.588.656<br>C11.675.659                                                |
| Papio                                         | B2.649.801.201.629.218.586                                           | B2.649.801.201.468.690                                                   |
| Pappataci Fever                               | C2.782.74.651                                                        | C2.782.147.700<br>C2.81.700                                              |
| Pappataci Fever Virus                         | B4.909.777.70.626                                                    | B4.909.777.147.690                                                       |
| Paranoid Personality Disorder                 | F3.709.597.625                                                       | F3.709.597.508                                                           |
| Peanuts                                       | J1.341.739.673                                                       | B6.510.570.721<br>J1.341.739.673<br>J1.341.956.570.721                   |
| Pedophilia                                    | F3.709.597.840.510                                                   | F3.709.597.608.700.580                                                   |
| Pepticemia                                    | D2.455.526.728.650.690<br>D12.644.490<br>D22.204.57.649.690          | D2.455.526.728.650.594.690<br>D12.644.490<br>D22.204.585.613.698         |
| Perfluorobutyl Tetrahydrofuran                | D3.383.312.710                                                       | D2.375.750<br>D3.300.750<br>D3.383.312.710                               |
| Phenesterin                                   | D2.455.526.728.650.725<br>D22.204.57.649.725                         | D2.455.526.728.650.725<br>D22.204.585.725                                |
| Phlebotomus                                   | B1.131.617.289.368.781.602                                           | B1.131.617.289.781.602                                                   |
| Phorbol Esters                                | D2.455.849.291.500.510<br>D10.516.627.315.500.510<br>D26.191.744.742 | D2.455.849.291.500.510<br>D10.516.627.315.500.510<br>D26.191.208.744.742 |
| Phorbols                                      | D2.455.849.291.500<br>D10.516.627.315.500<br>D26.191.744             | D2.455.849.291.500<br>D10.516.627.315.500<br>D26.191.208.744             |
| Phosphoramidate Mustards                      | D2.455.526.728.650.730<br>D2.705.670<br>D22.204.57.649.748           | D2.455.526.728.650.730<br>D2.705.670<br>D22.204.585.748                  |
| Pica                                          | C23.888.102.689<br>F1.145.407.771                                    | C23.888.102.689<br>F3.126.72.500                                         |
| Plasmapheresis                                | E2.95.135.761                                                        | E2.110.770                                                               |
| Plateletpheresis                              | E2.95.135.790<br>E5.909.262.363.790                                  | E2.110.790<br>E5.909.262.363.790                                         |
| Pneumonia, Progressive Interstitial, of Sheep | C2.782.710<br>C22.836.660                                            | C2.782.815.750<br>C22.836.660                                            |
| Poloxalene                                    | D2.33.618.690.650<br>D25.720.741.650<br>D26.866.650                  | D2.33.618.690.650<br>D25.720.741.650<br>D26.866.762.750                  |
| Polyethylene Glycols                          | D2.33.618.690<br>D25.720.741                                         | D2.33.618.690<br>D25.720.741<br>D26.866.762                              |

| PRINT HEADING               | 1980 MESH TREE NUMBER                                                                                              | 1981 MESH TREE NUMBER                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Polysorbates                | D2.33.618.690.700<br>D25.720.741.700<br>D26.866.381.400                                                            | D2.33.618.690.700<br>D25.720.741.700<br>D26.866.762.753                                                                |
| Polystyrenes                | D25.720.716.579                                                                                                    | D2.455.426.559.389.150.600<br>D25.720.716.579<br>D25.720.840.771                                                       |
| Polyurethanes               | D25.720.716.650                                                                                                    | D25.720.716.650<br>D25.720.840.782                                                                                     |
| Polyvinyl Alcohol           | D2.33.822<br>D2.455.326.271.884.533.532<br>D25.720.716.721.616                                                     | D2.33.750<br>D2.455.326.271.884.533.532<br>D25.720.716.721.616                                                         |
| Povidone-Iodine             | D20.187.698                                                                                                        | D1.396.661.790<br>D2.455.326.271.884.533.710<br>D3.383.773.812.615.630<br>D20.187.698<br>D25.720.716.721.838.745       |
| Powassan Virus              | B4.909.777.70.322.511.700                                                                                          | B4.909.777.270.511.700<br>B4.909.777.923.377.350.756                                                                   |
| Prednimustine               | D2.455.526.728.650.156.700<br>D4.808.745.432.769.795.700<br>D22.204.57.649.156.742                                 | D2.455.526.728.650.156.700<br>D4.808.745.432.769.795.700<br>D22.204.585.186.742                                        |
| Pregnancy in Adolescence    | G8.520.769.627                                                                                                     | G8.520.769.420.770                                                                                                     |
| Prophase                    | G4.335.184.220.750<br>G5.148.168.220.750<br>G7.553.251.220.750                                                     | G4.335.135.220.225.750<br>G5.148.165.220.225.750<br>G7.553.135.220.225.750                                             |
| Prospidium                  | D3.383.606.810<br>D4.615.885.700<br>D22.204.57.725                                                                 | D3.383.606.810<br>D4.615.885.700<br>D22.204.738                                                                        |
| Psychophysiologic Disorders | F3.709.692                                                                                                         | F3.709.630                                                                                                             |
| Psychoses, Alcoholic        | C21.613.53.270.630<br>F3.709.818.546                                                                               | C21.613.53.270.630<br>F3.709.680.610.580.510                                                                           |
| Pterygium                   | C11.183.665                                                                                                        | C11.187.781                                                                                                            |
| Puromycin                   | D9.203.408.51.788<br>D20.85.707                                                                                    | D9.203.408.51.788<br>D20.85.707<br>D26.87.762                                                                          |
| Puromycin Aminonucleoside   | D9.203.408.51.788.650<br>D13.570.230.229.650<br>D20.85.707.700<br>D22.204.106.779<br>D22.204.144.779<br>D26.87.762 | D9.203.408.51.788.650<br>D13.570.230.229.650<br>D20.85.707.700<br>D22.204.106.779<br>D22.204.144.779<br>D26.87.762.650 |
| Pyran Copolymer             | D3.383.663.705<br>D25.720.830                                                                                      | D3.383.663.705<br>D25.720.830<br>D22.204.750                                                                           |
| Rana Catesbeiana            | B2.90.312.640.490                                                                                                  | B2.90.180.708.180                                                                                                      |
| Rana Esculenta              | B2.90.312.640.590                                                                                                  | B2.90.180.708.240                                                                                                      |
| Rana Pipiens                | B2.90.312.640.690                                                                                                  | B2.90.180.708.310                                                                                                      |
| Rana Temporaria             | B2.90.312.640.790                                                                                                  | B2.90.180.708.420                                                                                                      |
| Rauscher Virus              | B4.909.574.449.674.632.791<br>B4.909.777.449.674.632.791<br>B4.909.777.779.674.632.791                             | B4.909.574.807.674.632.791<br>B4.909.777.731.674.632.791<br>B4.909.777.779.674.632.791                                 |

| PRINT HEADING            | 1980 MESH TREE NUMBER                                                                      | 1981 MESH TREE NUMBER                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Receptors, Virus         | D12.776.543.955<br>G6.184.154.955<br>G12.803.955                                           | D12.776.543.955<br>G6.184.154.955                                                                        |
| Reiter's Disease         | C1.539.717<br>C5.550.114.782<br>C11.183.749<br>C12.777.767.851.644                         | C1.539.717<br>C5.550.114.782<br>C11.187.183.749<br>C12.777.767.851.644                                   |
| Reproduction, Asexual    | G8.600                                                                                     | G8.520.820                                                                                               |
| Rift Valley Fever        | C2.407.810<br>C2.782.74.762<br>C2.782.417.762<br>C6.552.380.315.430.812<br>C22.467.435.812 | C2.407.810<br>C2.782.147.810<br>C2.782.417.762<br>C2.81.810<br>C6.552.380.315.430.812<br>C22.467.435.812 |
| Rift Valley Fever Virus  | B4.909.777.70.734                                                                          | B4.909.777.147.812                                                                                       |
| Ross River Virus         | B4.909.777.70.750                                                                          | B4.909.777.923.54.813                                                                                    |
| Rous Sarcoma             | C2.782.832<br>C2.928.758<br>C4.557.863.782.486<br>C4.619.857.486                           | C2.782.815.813<br>C2.928.758<br>C4.557.863.782.486<br>C4.619.857.486                                     |
| Rous Sarcoma Virus       | B4.909.574.449.112.737<br>B4.909.777.449.112.737                                           | B4.909.574.807.112.737<br>B4.909.777.731.112.737                                                         |
| Rubella                  | C2.782.866                                                                                 | C2.782.930.815                                                                                           |
| Rubella Virus            | B4.909.777.810                                                                             | B4.909.777.923.891                                                                                       |
| Runaway Reaction         | F3.126.842.688<br>F3.234.804                                                               | F3.126.842.688<br>F3.234.193.560                                                                         |
| Sadism                   | F3.709.597.840.600                                                                         | F3.709.597.608.700.660                                                                                   |
| Salamandra               | B2.90.655.705                                                                              | B2.90.608.700.610                                                                                        |
| Sandflies                | B1.131.617.289.368.781                                                                     | B1.131.617.289.781                                                                                       |
| Scattering, Radiation    | H1.671.768.638.823                                                                         | H1.671.768.831                                                                                           |
| Schizophrenia            | F3.709.755.824                                                                             | F3.709.680.786                                                                                           |
| Schizophrenia, Catatonic | F3.709.755.824.475                                                                         | F3.709.680.786.710                                                                                       |
| Schizophrenia, Childhood | F3.709.755.824.575                                                                         | F3.709.680.500.110<br>F3.709.680.786.730                                                                 |
| Schizophrenia, Paranoid  | F3.709.755.824.824                                                                         | F3.709.680.786.800                                                                                       |
| Self Medication          | E2.319.827                                                                                 | E2.319.827<br>E2.900.880                                                                                 |
| Semliki Forest Virus     | B4.909.637.713<br>B4.909.777.70.787                                                        | B4.909.637.713<br>B4.909.777.923.54.840                                                                  |
| Semustine                | D2.654.692.440.700<br>D2.948.594.440.700<br>D22.204.57.553.700                             | D2.654.692.440.700<br>D2.948.594.440.700<br>D22.204.493.835                                              |
| Sex Disorders            | C12.294.644<br>C13.371.665<br>F3.709.692.749                                               | C12.294.644<br>C13.371.665                                                                               |
| Sigmoidoscopy            | E1.184.833<br>E1.418.890                                                                   | E1.184.200.890<br>E1.418.213.890                                                                         |
| Simbu Group Viruses      | B4.909.777.70.800                                                                          | B4.909.777.147.855                                                                                       |

| PRINT HEADING                | 1980 MESH TREE NUMBER                                                             | 1981 MESH TREE NUMBER                                                                                |
|------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Simian Sarcoma Viruses       | B4.909.574.449.810<br>B4.909.777.449.810                                          | B4.909.574.807.810<br>B4.909.777.731.810                                                             |
| Sindbis Virus                | B4.909.777.70.834                                                                 | B4.909.777.923.54.860                                                                                |
| Sister Chromatid Exchange    | G5.148.168.260.840<br>G5.832.260.840                                              | G5.148.301.840<br>G5.832.260.840                                                                     |
| Skid Row Alcoholics          | F3.709.597.35.810<br>M1.805                                                       | M1.805                                                                                               |
| Smoking                      | F1.145.466.753<br>F1.145.239.800<br>F3.126.208.800                                | F1.145.466.753                                                                                       |
| Soaps                        | D26.866.381.493<br>J1.516.872                                                     | D26.866.265.861<br>J1.516.872                                                                        |
| Sodium Dodecyl Sulfate       | D2.33.555.700.720<br>D10.516.289.700.710<br>D26.866.381.566                       | D2.33.555.700.720<br>D10.516.289.700.710<br>D26.866.868                                              |
| Somnambulism                 | C10.597.785.800<br>C23.888.592.796.800<br>F1.393.282.800<br>F3.407.282.800        | C10.597.785.800<br>C23.888.592.796.800<br>F3.126.821.700                                             |
| Soy Beans                    | J1.341.956.570.870                                                                | B6.510.570.870<br>J1.341.956.570.870                                                                 |
| Spectrin                     | D12.776.124.875                                                                   | D12.776.124.875<br>D12.776.543.980                                                                   |
| Spectrum Analysis, Raman     | E5.196.867.890<br>H1.181.278.862.880<br>H1.671.768.638.823.860                    | E5.196.867.890<br>H1.181.278.862.880<br>H1.671.768.831.860                                           |
| Spinal Puncture              | E1.223.894.632.804                                                                | E1.223.894.632.804<br>E1.236.890                                                                     |
| SQ 18506                     | D2.640.600.900<br>D3.383.312.649.900<br>D3.383.548.580.650<br>D21.201.412.596.660 | D2.640.600.900<br>D3.383.312.649.900<br>D3.383.548.580.650<br>D21.201.412.596.660<br>D21.370.884.660 |
| Stellate Ganglion            | A8.99.370.477.935<br>A8.99.893.411.935<br>A8.340.315.477.935                      | A8.99.370.411.935<br>A8.99.893.477.935<br>A8.340.315.477.935                                         |
| Surgical Flaps               | E4.860.887                                                                        | E4.860.887<br>E4.936.664.890                                                                         |
| T-2 Toxin                    | D2.455.849.765.400.870<br>D24.185.926.587.400.870                                 | D2.455.849.765.850.870<br>D24.185.926.587.933.870                                                    |
| Teaching Materials           | I2.903.847                                                                        | I2.903.847<br>L1.178.820                                                                             |
| Telophase                    | G4.335.184.220.900<br>G5.148.168.220.900<br>G7.553.251.220.900                    | G4.335.135.220.225.900<br>G5.148.165.220.225.900<br>G7.553.135.220.225.900                           |
| Tetradecanoylphorbol Acetate | D2.455.849.291.500.510.850<br>D10.516.627.315.500.510.850<br>D26.191.744.742.903  | D2.455.849.291.500.510.850<br>D10.516.627.315.500.510.850<br>D26.191.208.744.742.903                 |
| Thio-Tepa                    | D5.723.141.854<br>D22.204.57.827                                                  | D5.723.141.854<br>D22.204.880                                                                        |
| Tongue Habits                | F1.145.466.874<br>F1.272.859                                                      | F1.145.466.874<br>F3.234.193.308.680                                                                 |

| PRINT HEADING       | 1980 MESH TREE NUMBER                                                               | 1981 MESH TREE NUMBER                                                                |
|---------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                     | F3.305.859                                                                          |                                                                                      |
| Teyocamycin         | D20.85.75.950<br>D22.204.106.930<br>D22.204.144.930<br>D26.87.922                   | D13.570.800.840<br>D20.85.75.950<br>D22.204.106.930<br>D22.204.144.930<br>D26.87.922 |
| Trachoma            | C1.850.200.195.920<br>C11.183.889                                                   | C1.850.200.195.920<br>C11.187.183.889                                                |
| Transsexualism      | F3.709.597.840.680                                                                  | F3.709.597.608.810                                                                   |
| Transvestism        | F3.709.597.840.740                                                                  | F3.709.597.608.700.708                                                               |
| Triaziquone         | D3.383.97.217.900<br>D22.204.57.881                                                 | D3.383.97.217.900<br>D22.204.902                                                     |
| Trichodermin        | D2.455.849.765.400.900<br>D24.185.926.587.900                                       | D2.455.849.765.850.900<br>D24.185.926.587.933.900                                    |
| Trichotillomania    | C17.805.305.940<br>F3.709.438.629.842                                               | C17.805.305.940<br>F3.709.438.180.490.600                                            |
| Tritons             | D25.720.741.890<br>D26.866.890                                                      | D25.720.741.762.923<br>D26.866.762.923                                               |
| Triturus            | B2.90.655.869                                                                       | B2.90.608.700.670                                                                    |
| Tsetse Flies        | B1.131.617.289.368.908                                                              | B1.131.617.289.908                                                                   |
| Tyrocidines         | D20.85.905.920<br>D20.187.927                                                       | D20.85.905.920<br>D20.187.925.927                                                    |
| Tyrothricin         | D20.85.905                                                                          | D20.85.905<br>D20.187.925                                                            |
| Ultraviolet Rays    | G3.230.300.100.725.525.600<br>H1.671.768.638.348.849                                | G3.230.300.100.725.525.600<br>H1.671.768.638.943                                     |
| Uracil Mustard      | D2.455.526.728.650.913<br>D22.204.57.649.913                                        | D2.455.526.728.650.913<br>D22.204.585.941                                            |
| Vegetable Proteins  | D12.776.765.836                                                                     | D12.776.256.920<br>D12.776.765.836                                                   |
| Vidarabine          | D13.570.65.70<br>D13.570.65.950<br>D13.570.583.138.900<br>D20.388.975<br>D26.87.975 | D13.570.65.950<br>D13.570.583.138.900<br>D20.388.975<br>D26.87.975                   |
| Visna-Maedi Viruses | B4.909.777.449.949                                                                  | B4.909.777.731.949                                                                   |
| Vitalium            | D1.552.33.182.735<br>D25.58.224.735                                                 | D1.552.33.182.735<br>D25.58.224.735<br>D25.339.208.224.959                           |
| Voyeurism           | F3.709.597.840.810                                                                  | F3.709.597.608.700.800                                                               |
| West Nile Fever     | C2.782.74.894                                                                       | C2.782.930.960<br>C2.81.960                                                          |
| West Nile Virus     | B4.909.637.889<br>B4.909.777.70.322.915                                             | B4.909.637.889<br>B4.909.777.270.915<br>B4.909.777.923.377.950                       |
| Wetting Agents      | D26.866.381.916                                                                     | D26.866.974                                                                          |
| inopus              | B2.90.833.825                                                                       | B2.90.180.610.500                                                                    |
| Yellow Fever        | C2.782.74.942                                                                       | C2.782.930.980<br>C2.81.980                                                          |
| Yellow Fever Virus  | B4.909.777.70.949                                                                   | B4.909.777.923.377.990                                                               |
| Yttrium             | D1.552.955                                                                          | D1.268.965<br>D1.552.955                                                             |

Supplement to Tree Number Changes - 1981

| <u>Deleted Heading</u>                                                                    | <u>Replaced-By Heading</u>                                                                             |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Apes<br>B2.649.801.201.206                                                                | Pongidae<br>B2.649.801.201.600                                                                         |
| Autism, Early Infantile<br>F3.709.755.824.575.298                                         | Autism, Infantile<br>F3.709.680.500.60                                                                 |
| Autonomic Dysfunction<br>C10.120.149<br>C10.772.590.92<br>C16.131.666.690.92              | Dysautonomia, Familial<br>C10.120.309<br>C10.772.590.309<br>C16.131.666.690.309                        |
| Benzalkonium Chloride<br>D2.92.102.80<br>D2.675.276.80<br>D20.187.83                      | Benzalkonium<br>D2.92.102.80<br>D2.675.276.80<br>D20.187.83<br>D26.866.265.105                         |
| Benzethonium Chloride<br>D2.92.102.90<br>D2.675.276.90<br>D20.187.100                     | Benzethonium<br>D2.92.102.90<br>D2.675.276.90<br>D20.187.100<br>D26.866.265.110                        |
| 2-Bromoergocryptine<br>D3.132.327.287.462.347.131<br>D3.549.439.462.347.131<br>D6.347.150 | Bromocriptine<br>D3.132.327.287.462.347.131<br>D3.549.439.462.347.131<br>D6.347.150<br>D16.538.267.131 |
| Bufo<br>B2.90.833.239                                                                     | Bufoinae<br>B2.90.180.210                                                                              |
| Carcinoma, Epidermoid<br>C4.557.117.296                                                   | Carcinoma, Squamous Cell<br>C4.557.117.490                                                             |
| Central European Encephalitis Virus<br>B4.909.777.70.322.511.300                          | Encephalitis Virus, Central European<br>B4.909.777.270.511.300<br>B4.909.777.923.377.350.330           |
| Child Development Deviations<br>F1.272<br>F3.305                                          | Child Development Disorders<br>F3.305                                                                  |
| Chimpanzees<br>B2.649.801.201.206.343                                                     | Chimpanzee troglodytes<br>B2.649.801.201.600.180                                                       |
| Chinese Medicine<br>K1.419.552.709.343                                                    | Medicine, Chinese<br>K1.419.684.660.300                                                                |



Supplement to Tree Number Changes - 1981

| <u>Deleted Heading</u>                                                                                                        | <u>Replaced-By Heading</u>                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Conversion Reaction<br>F1.393.181<br>F3.407.181<br>F3.709.438.368.235                                                         | Conversion Disorder<br>F1.393.181<br>F3.407.181<br>F3.709.438.710.380                                                                  |
| Creutzfeldt-Jakob Disease<br>C2.839.257<br>C10.228.140.79.300<br>C10.228.140.382.220<br>C10.228.228.162<br>F3.709.818.207.280 | Jakob-Creutzfeldt Syndrome<br>C2.839.500<br>C10.228.140.79.550<br>C10.228.140.382.220<br>C10.228.228.400<br>F3.709.680.610.392.300.110 |
| Culicoides<br>B1.131.617.289.368.179                                                                                          | Ceratopogonidae<br>B1.131.617.289.208                                                                                                  |
| Cyclothymic Personality<br>F3.709.597.202                                                                                     | Cyclothymic Disorder<br>F3.709.438.100.208                                                                                             |
| Cynomolgus Monkeys<br>B2.649.801.201.629.605.369                                                                              | Macaca fascicularis<br>B2.649.801.201.468.660.508                                                                                      |
| Delirium Tremens<br>C21.613.53.270.630.290<br>F3.709.818.546.290                                                              | Alcohol Withdrawal Delirium<br>C21.613.53.270.630.290<br>F3.709.680.610.580.510.80                                                     |
| Depersonalization<br>F3.126.56.296                                                                                            | Depersonalization Disorder<br>F3.126.56.296<br>F3.709.438.416.408                                                                      |
| Depression, Reactive<br>F3.709.438.175.380                                                                                    | Adjustment Disorders<br>F3.709.80                                                                                                      |
| Diathesis<br>C23.280.285<br>G7.265.300                                                                                        | Disease Susceptibility<br>C23.280.341<br>G7.265.300                                                                                    |
| Dibromodulcitol<br>D2.33.800.256.384<br>D9.203.853.256.384<br>D22.204.57.342                                                  | Mitolactol<br>D2.33.800.256.500<br>D9.203.853.256.500<br>D22.204.545                                                                   |
| Dissociative Reaction<br>F1.393.282<br>F3.407.282<br>F3.709.438.368.390                                                       | Dissociative Disorders<br>F1.393.282<br>F3.407.282<br>F3.709.438.416                                                                   |

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| <u>Deleted Heading</u>                                              | <u>Replaced-By Heading</u>                                                         |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Doberol<br>D2.33.329.624.260<br>D2.92.63.624.260<br>D16.848.215.325 | Toliprolol<br>D2.33.329.624.935<br>D2.92.63.624.935<br>D16.848.215.933             |
| Drug Abuse<br>F1.145.332<br>F3.498<br>I1.880.735.295                | Substance Abuse<br>F1.145.905<br>F3.709.597.780.610<br>I1.880.735.790              |
| Drug Dependence<br>F3.709.597.285                                   | Substance Dependence<br>F3.709.597.780.660                                         |
| Drug Withdrawal Symptoms<br>F3.709.597.285.60                       | Alcohol Withdrawal Delirium<br>C21.613.53.270.630.290<br>F3.709.680.610.580.510.80 |
| Epoxide Hydratases<br>D8.586.520.497.320                            | Epoxide Hydrolases<br>D8.586.277.340                                               |
| Epoxytrichothecenes<br>D2.455.849.765.400<br>D24.185.926.587.400    | Trichothecenes<br>D2.455.849.765.850<br>D24.185.926.587.933                        |
| Folie a Deux<br>F3.709.755.266                                      | Shared Paranoid Disorder<br>F3.709.680.700.810                                     |
| Galagos<br>B2.649.801.700.200                                       | Galago<br>B2.649.801.700.572.408                                                   |
| Gelada<br>B2.649.801.201.629.420                                    | Theropithecus gelada<br>B2.649.801.201.468.720                                     |
| Gibbons<br>B2.649.801.201.206.400                                   | Hylobates<br>B2.649.801.201.600.680                                                |
| Gliotoxin<br>D3.132.390<br>D3.438.473.360<br>D20.85.380             | Gliotoxins<br>D3.438.473.360<br>D20.388.401<br>D24.185.926.587.401                 |
| Gorillas<br>B2.649.801.201.206.450                                  | Gorilla gorilla<br>B2.649.801.201.600.342                                          |
| Herbalism<br>E2.924.440                                             | Medicine, Herbal<br>I1.76.201.450.654.400<br>K1.419.684.400                        |

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| <u>Deleted Heading</u>                                                       | <u>Replaced-By Heading</u>                                                                            |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Heroin Addiction<br>F3.709.597.285.665.440                                   | Heroin Dependence<br>F3.709.597.780.660.400.110                                                       |
| Howler Monkeys<br>B2.649.801.201.629.450                                     | Alouatta<br>B2.649.801.201.370.80                                                                     |
| Kitasamycins<br>D9.203.408.51.485<br>D20.85.434                              | Leucomycins<br>D9.203.408.51.485<br>D20.85.461                                                        |
| Korsakoff's Syndrome<br>C21.613.53.270.630.587<br>F3.709.818.546.587         | Alcohol Amnestic Disorder<br>C21.613.53.270.630.587<br>F3.709.680.610.80<br>F3.709.680.610.580.510.60 |
| Lemurs<br>B2.649.801.700.500                                                 | Lemur<br>B2.649.801.700.508.490                                                                       |
| Leukoviruses<br>B4.909.574.449<br>B4.909.777.449                             | Retroviridae<br>B4.909.574.807<br>B4.909.777.731                                                      |
| Marmosets<br>B2.649.801.201.629.615                                          | Callithricidae<br>B2.649.801.201.280                                                                  |
| Medicine, Hindu<br>K1.419.552.676                                            | Medicine, Ayurvedic<br>K1.419.684.150                                                                 |
| Medicine, Primitive<br>I1.76.201.450.654<br>K1.419.552.742                   | Medicine, Traditional<br>I1.76.201.450.654<br>K1.419.684                                              |
| Minimal Brain Dysfunction<br>C10.228.140.140.626<br>F3.234.593               | Hyperkinetic Syndrome<br>F3.234.360                                                                   |
| Moniliasis<br>C1.703.626                                                     | Candidiasis<br>C1.703.160                                                                             |
| Moniliasis, Cutaneous<br>C1.703.295.628<br>C1.703.626.421<br>C17.838.208.651 | Candidiasis, Cutaneous<br>C1.703.160.170<br>C1.703.295.170<br>C17.838.208.170                         |
| Moniliasis, Oral<br>C1.703.626.546<br>C7.465.522                             | Candidiasis, Oral<br>C1.703.160.180<br>C7.465.130                                                     |

Supplement to Tree Number Changes - 1981

| <u>Deleted Heading</u>                                                           | <u>Replaced-By Heading</u>                                                        |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Moniliasis, Vulvovaginal<br>C1.703.626.671<br>C13.371.894.509<br>C13.371.944.462 | Candidiasis, Vulvovaginal<br>C1.703.160.190<br>C13.371.894.190<br>C13.371.944.190 |
| Morphine Addiction<br>F3.709.597.285.665.600                                     | Morphine Dependence<br>F3.709.597.780.660.400.560                                 |
| Narcotic Addiction<br>F3.709.597.285.665                                         | Narcotic Dependence<br>F3.709.597.780.660.400                                     |
| Neuroses, Anxiety<br>F3.709.438.584                                              | Anxiety Disorders<br>F3.709.438.180                                               |
| Neuroses, Obsessive-Compulsive<br>F3.709.438.629                                 | Obsessive-Compulsive Disorder<br>F3.709.438.180.490                               |
| Neuroses, Post-Traumatic<br>C21.866.647<br>F3.709.438.674                        | Stress Disorders, Post-Traumatic<br>F3.709.438.180.680                            |
| Neuroses, War<br>F3.709.438.719                                                  | Combat Disorders<br>F3.709.438.180.680.110                                        |
| Newts<br>B2.90.655.515                                                           | Salamandridae<br>B2.90.608.700                                                    |
| Night Monkeys<br>B2.649.801.201.629.700                                          | Aotus trivirgatus<br>B2.649.801.201.370.110                                       |
| Nonpsychotic Organic Brain Syndrome<br>F3.709.505                                | Organic Mental Disorders<br>F3.709.508                                            |
| Obsessive-Compulsive Personality<br>F3.709.597.570                               | Compulsive Personality Disorder<br>F3.709.597.138                                 |
| Olivomycin<br>D9.203.408.649<br>D20.85.75.302.574<br>D22.204.106.307.574         | Olivomycins<br>D20.85.75.302.574<br>D22.204.106.307.574<br>D26.408.348.199.671    |
| Paranoia<br>F3.709.755.503                                                       | Paranoid Disorders<br>F3.709.680.700                                              |
| Passive-Aggressive Personality<br>F3.709.597.671                                 | Passive-Aggressive Personality Disorder<br>F3.709.597.562                         |

Supplement to Tree Number Changes - 1981

| <u>Deleted Heading</u>                                                                    | <u>Replaced-By Heading</u>                                                        |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Passive-Dependent Personality<br>F3.709.597.671.600                                       | Dependent Personality Disorder<br>F3.709.597.160                                  |
| Patas Monkeys<br>B2.649.801.201.629.750                                                   | Erythrocebus patas<br>B2.649.801.201.468.602                                      |
| Phleomycin<br>D20.85.658                                                                  | Phleomycins<br>D20.85.75.236.758<br>D20.85.658<br>D22.204.106.244.758             |
| Phobias<br>F3.709.438.802                                                                 | Phobic Disorders<br>F3.709.438.180.508                                            |
| Platinum Diamminodichloride<br>D1.552.691.383.611<br>D1.620.89.276.508.611<br>D22.204.702 | Cisplatin<br>D1.552.691.383.250<br>D1.620.89.276.508.250<br>D22.204.355           |
| Portacaval Anastomosis<br>E4.752.814.767                                                  | Portacaval Shunt, Surgical<br>E4.752.814.790.790                                  |
| Propantheline Bromide<br>D16.653.774                                                      | Propantheline<br>D2.92.102.700<br>D2.675.276.700<br>D3.494.953.558<br>D16.653.774 |
| Psychoses<br>F3.709.755                                                                   | Psychotic Disorders<br>F3.709.680                                                 |
| Psychoses, Involuntional<br>F3.709.755.629                                                | Depression, Involuntional<br>F3.709.680.80.300.400                                |
| Psychoses, Manic-Depressive<br>F3.709.755.712                                             | Bipolar Disorder<br>F3.709.680.80.200                                             |
| Psychoses, Organic<br>F3.709.818                                                          | Organic Mental Disorders, Psychotic<br>F3.709.680.610                             |
| Psychoses, Toxic<br>C21.613.809<br>F3.709.818.712                                         | Psychoses, Substance-Induced<br>C21.613.809<br>F3.709.680.610.580                 |
| Rana<br>B2.90.312.640                                                                     | Ranidae<br>B2.90.180.708                                                          |

Supplement to Tree Number Changes - 1981

| <u>Deleted Heading</u>                                                                                       | <u>Replaced-By Heading</u>                                                                                                 |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Rhesus Monkeys<br>B2.649.801.201.629.605.774                                                                 | Macaca mulatta<br>B2.649.801.201.468.660.540                                                                               |
| RO 7-0207<br>D2.640.672.700<br>D3.383.374.658.700<br>D21.370.107.795<br>D21.370.370.695                      | Ornidazole<br>D2.640.672.700<br>D3.383.374.658.700<br>D21.370.107.675<br>D21.370.370.695                                   |
| Rotavirus<br>B4.909.777.790                                                                                  | Rotaviruses<br>B4.909.777.714.790                                                                                          |
| Salamanders<br>B2.90.655                                                                                     | Urodela<br>B2.90.608                                                                                                       |
| Schizoid Personality<br>F3.709.597.782                                                                       | Schizoid Personality Disorder<br>F3.709.597.680                                                                            |
| Schizophrenia, Hebephrenic<br>F3.709.755.824.658                                                             | Schizophrenia, Disorganized<br>F3.709.680.786.762                                                                          |
| Schizophrenia, Latent<br>F3.709.755.824.741                                                                  | Schizotypal Personality Disorder<br>F3.709.597.730                                                                         |
| Sex Deviation<br>F3.709.597.840                                                                              | Paraphilias<br>F3.709.597.608.700                                                                                          |
| Shock Therapy<br>F4.881.792                                                                                  | Convulsive Therapy<br>F4.881.200                                                                                           |
| Shock Therapy, Electric<br>F4.881.792.583                                                                    | Electroconvulsive Therapy<br>F4.881.200.583                                                                                |
| Sodium Tetradecyl Sulfates<br>D2.33.555.900<br>D10.516.289.900<br>D26.394.225.766.826.824<br>D26.585.711.824 | Sodium Tetradecyl Sulfate<br>D2.33.555.900<br>D10.516.289.900<br>D26.394.225.766.826.824<br>D26.585.711.824<br>D26.866.875 |
| SQ 20881<br>D12.644.456.810                                                                                  | Teprotide<br>D12.644.456.810<br>D18.162.885                                                                                |
| Squirrel Monkeys<br>B2.649.801.201.629.800                                                                   | Saimiri<br>B2.649.801.201.370.610                                                                                          |

Supplement to Tree Number Changes - 1981

| <u>Deleted Heading</u>                                 | <u>Replaced-By Heading</u>                                                  |
|--------------------------------------------------------|-----------------------------------------------------------------------------|
| Tree Shrews<br>B2.649.801.700.798                      | Tupaidae<br>B2.649.801.700.810                                              |
| Triethylene Melamine<br>D22.204.57.924                 | Triethylenemelamine<br>D3.383.97.217.924<br>D22.204.924                     |
| Trimethazone<br>D3.383.694.900<br>D26.74.925           | Tribuzone<br>D3.383.694.900<br>D14.73.278.152.684.915<br>D26.74.204.684.915 |
| Tuberactinomycin-N<br>D20.85.89.850<br>D20.338.135.850 | Enviomycin<br>D20.85.89.910.345<br>D20.338.135.922.345                      |
| Turbidimetry<br>E5.196.712.872                         | Nephelometry and Turbidimetry<br>E5.196.712.650                             |
| Umbilical Cyst<br>C4.182.944                           | Urachal Cyst<br>C4.182.946                                                  |
| Veterans Affairs<br>I1.451.858                         | Veterans<br>M1.930                                                          |
| VM 26<br>D22.204.179.612.696.965                       | Teniposide<br>D22.204.179.612.696.898                                       |
| VP 16-213<br>D22.204.179.612.696.968                   | Etoposide<br>D22.204.179.612.696.339                                        |





# THE NLM TECHNICAL BULLETIN

NOVEMBER 1980

NO. 139

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| DATA BASE   | TOTAL RECORDS | DATES COVERED      | DATE LAST UPDATED | LATEST UPDATE TAG |
|-------------|---------------|--------------------|-------------------|-------------------|
| *AVLINE     | 9,380         | THROUGH 1980       | 07 NOV 80         |                   |
| *BIOETHICS  | 10,192        | JAN 73-DEC 79      | 05 AUG 80         | 8008(EM)          |
| *CANCERLIT  | 233,922       | JAN 63-OCT 80      | 27 OCT 80         | 8009(EM)          |
| *CANCERPROJ | 18,403        | 1976-1980          | 20 OCT 80         | 8010(EM)          |
| *CATLINE    | 204,506       | THROUGH 1980       | 07 NOV 80         |                   |
| CHEMLINE    | 472,761       |                    | 16 SEP 80         |                   |
| *CLINPROT   | 1,952         |                    | 06 OCT 80         | 8008(EM)          |
| *EPILEPSY   | 36,472        | 1945-PRESENT       | 20 OCT 80         |                   |
| *HEALTH     | 160,531       | JAN 75-OCT 80      | 10 NOV 80         | 8012(EM)          |
| *HISTLINE   | 42,113        |                    | 23 OCT 80         | 8010(EM)          |
| MEDLINE     | 621,747       | JAN 78-DEC 80      | 03 NOV 80         | 8012(EM)          |
| +MED77      | 253,234       | JAN 77-DEC 77      | 08 DEC 79         |                   |
| +MED75      | 642,953       | JAN 75-DEC 76      | 08 DEC 79         |                   |
| +MED72      | 669,106       | JAN 72-DEC 74      | 08 DEC 79         |                   |
| +MED69      | 668,258       | JAN 69-DEC 71      | 08 DEC 79         |                   |
| +MED66      | 501,802       | JAN 66-DEC 68      | 08 DEC 79         |                   |
| MESH VOC    | 36,901        | 1980               | 20 OCT 80         |                   |
| *NAME AUTH  | 113,089       |                    | 14 OCT 80         |                   |
| RTECS       | 42,389        | 1978 ED.-SEP 80    | 22 SEP 80         |                   |
| SDILINE     | 22,461        | DEC 80             | 03 NOV 80         |                   |
| *SERLINE    | 36,139        | 1980               | 07 NOV 80         |                   |
| TDB         | 2,547         |                    | 11 SEP 80         |                   |
| TOXLINE     | 408,127       |                    | 27 OCT 80         | 8010(EM)          |
| CBAC        | 205,470       | 1977-VOL 32(6,7)   |                   |                   |
| TOXBIB      | 68,055        | 1977-NOV 80        |                   |                   |
| IPA         | 18,114        | 1977-VOL 17(15,16) |                   |                   |
| HEEP        | 38,140        | 1977-NOV 80        |                   |                   |
| PESTAB      | 9,662         | 1977-OCT 80        |                   |                   |
| EMIC        | 28,036        | 1960-DEC 79        |                   |                   |
| ETIC        | 19,399        | 1950-OCT 80        |                   |                   |
| RPROJ       | 21,251        | 1978-DEC 80        |                   |                   |
| +TOXBACK74  | 275,506       |                    | 26 FEB 78         |                   |
| CBAC        | 147,332       | 1974-1976          |                   |                   |
| TOXBIB      | 65,433        | 1974-1976          |                   |                   |
| IPA         | 17,582        | 1974-1976          |                   |                   |
| HEEP        | 37,198        | 1974-1976          |                   |                   |
| PESTAB      | 7,961         | 1974-1976          |                   |                   |
| +TOXBACK65  | 387,377       |                    | 26 FEB 78         |                   |
| CBAC        | 196,015       | 1965-1973          |                   |                   |
| TOXBIB      | 112,170       | 1968-1973          |                   |                   |
| IPA         | 21,973        | 1970-1973          |                   |                   |
| 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.

Editor: Grace H. McCann  
 Assistant Editor: Rose Marie Woodsmall  
 Technical Notes Editor: Carolyn B. Tilley

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 MEDLARS Management Section  
 National Library of Medicine  
 8600 Rockville Pike  
 Bethesda, Maryland 20205

301/496-6103



TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY FOR SPECIAL NOTICES AND MESSAGES

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

TOOLS,  
1981

- NTIS customers who were billed more than \$15.00 for the Annotated Alphabetic Mesh and \$10.50 for the MeSH Tree Structures should return their invoice for adjustment to NTIS Customer Services, 5285 Port Royal Road, Springfield, Virginia, 22161 (or call 703/487-4660).

- Orders for the 1981 Permuted MeSH may be placed with NTIS now for a late November mailing date.

Order Number - PB81-103707 Price - \$10.00

- Cumulated Index Medicus, 1980 is scheduled to be available in April 1981. The price will be \$170.00 (add \$42.50 if shipping to a foreign address). The publication may be ordered from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The stock number is S/N 017-052-00213-9.

CANCERLIT

- CANCERLIT was updated on October 27 with 4,633 records for a total of 233,922 records. This is the October 1980 update; however, the update tag is 8009(EM).

\*\*\*\*\*

POPLINE

Ann J. Preiss, Johns Hopkins University, MEDLARS Management Section, NLM  
Patti Patterson, MEDLARS Management Section, NLM

The POPLINE data base (POPulation information onLINE) will become available to U.S. Centers from the NLM computer in November 1980. The dissemination of population information available through POPLINE will be greatly enhanced due to the worldwide availability of the MEDLARS system. This online bibliographic data base was developed by the Population Information Program (PIP) of Johns Hopkins University and the Center for Population and Family Health Library/Information Program (CPFH) of Columbia University in cooperation with the National Library of Medicine. POPLINE was developed from POPINFORM, an online bibliographic file which was maintained between 1973 and 1979 by PIP and CPFH. Both PIP and the CPFH Library/Information Program are supported by the United States Agency for International Development (USAID).



The POPLINE file contains bibliographic information relevant to population studies and family planning, including research in human fertility, contraception, family planning programs, population, and related health, law, and policy issues. The literature covered relates primarily to humans. It is, therefore, recommended that users search MEDLINE for citations to articles on animal studies and/or reproductive biology.

POPLINE contains over 70,000 records, the majority of which were published between 1970 and the present, although there are selected citations dating back to 1886. The file is updated monthly, usually the second weekend of the month. Eight hundred to one thousand records are added with each update, increasing the size of the file by about 10,000 records annually. Input consists of selected monographs, book chapters, technical reports, unpublished items, and journal articles from subscription titles and other documents received at PIP and/or CPFH. A number of secondary sources, including MEDLINE, are used to locate pertinent literature for input to the file. All documents cited in POPLINE are housed in the collections of one or more of the contributing organizations.

There is no restriction on the language of a document included in the data base; however, the majority of items are in English. POPLINE utilizes the same three-letter language codes as MEDLINE.

All citations in POPLINE have keywords (terms assigned from the PIP/CPFH controlled vocabulary). All of these keywords have been mapped to MeSH headings, with the exception of some chemical terms. (These chemical terms must be used to add CAS Registry Numbers (RN) and other chemical information to MEDLINE records, when applicable, and cannot also be used for POPLINE mapping.) When searching the file using MeSH, searchers must remember that in some cases more than one keyword may have been mapped to a single MeSH heading. This is due to the specificity of the POPLINE keywords for the population/family planning field.

In addition to the keywords, online English abstracts are on ninety percent of the records. These abstracts are either author abstracts, modified author abstracts, or are written by PIP/CPFH staffs. These features make POPLINE records unique by providing both additional access points and valuable data.

The specific POPLINE keywords are from the PIP/CPFH thesauri. The PIP thesaurus is entitled the Population/ Fertility Control Thesaurus; the CPFH thesaurus is entitled the Fertility Modification Thesaurus: With Focus on Evaluation of Family Planning Programs. For information about these publications, contact either organization at the addresses listed at the end of this article. In 1979, a project was begun to produce a combined thesaurus, which should be available in early 1981.

Users may encounter some unfamiliar serial titles when searching POPLINE. The SERLINE file will contain records for most journal titles cited in POPLINE. For those titles that are indexed solely for POPLINE, a "P" is provided in the Special List Indicator (LI) field. The Abstracting and Indexing Tag (AI) field will carry the value "POP" for all journals indexed for POPLINE. In order to locate all titles which might be included in the POPLINE data base, search SERLINE as follows:





SS 1/C?  
 USER:  
 POP (AI)

The General Notes (GN) and Call Number (CA) fields in SERLINE will also contain unique information if NLM does not own the title. In these cases, the values in these fields will be:

GN - THIS TITLE IS NOT IN THE NLM COLLECTION

CA - PIP (or CPFH)

The SERLINE records for a majority of POPLINE titles should carry complete data by 1981. Until that time, check SERLINE first; if a record is not available, contact whichever organization is named in the Secondary Source ID (SI) field in POPLINE for further information about that document.

At this time, PIP and CPFH are the only contributors to the POPLINE data base. It is anticipated that other sources may be considered in the future. Under consideration are the Population Index, produced at Princeton University, and an expanded profile from MEDLINE.

Please check the online NEWS to determine exactly when POPLINE will be available. One copy of the chapter for the Online Services Reference Manual will be mailed to each billable online code address, giving detailed information about searching POPLINE.

POPLINE presents a new dimension for searchers of the MEDLARS system. Users are encouraged to take advantage of this added subject area and to share their comments and concerns with NLM.

Population Information Program Resource Center  
 Johns Hopkins University  
 624 North Broadway  
 Baltimore, Maryland 21205

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



POPLINE UPDATE SCHEDULE  
1981

| <u>UPDATE MONTH</u> | <u>ENTRY MONTH TAG</u> | <u>UPDATED POPLINE AVAILABLE ONLINE</u> |
|---------------------|------------------------|-----------------------------------------|
| JAN                 | 8101                   | JAN 12                                  |
| FEB                 | 8102                   | FEB 16                                  |
| MAR                 | 8103                   | MAR 16                                  |
| APR                 | 8104                   | APR 13                                  |
| MAY                 | 8105                   | MAY 11                                  |
| JUN                 | 8106                   | JUN 15                                  |
| JUL                 | 8107                   | JUL 13                                  |
| AUG                 | 8108                   | AUG 10                                  |
| SEP                 | 8109                   | SEP 14                                  |
| OCT                 | 8110                   | OCT 12                                  |
| NOV                 | 8111                   | NOV 16                                  |
| DEC                 | 8112                   | DEC 14                                  |

\*\*\*\*\*

ABBREVIATED ADVANCED ONLINE SERVICES TRAINING COURSE

The National Library of Medicine is offering a special three-day Advanced Online Services Training Course. This course will include all the lectures, discussions, and demonstrations of the standard Advanced Training curriculum. There will be no hands-on terminal exercises.

The class will be held February 10-12, 1981 in the Cluster Conference Room on the first floor of the new Lister Hill Center for Biomedical Communications. Application forms may be obtained by calling or writing MEDLARS Management Section. Registration is limited to 50 individuals, one per institution. All applications will be processed in order of receipt; priority will be given to those applications for advanced training previously received but not scheduled.

\*\*\*\*\*

UPGRADE OF NLM'S COMPUTER SYSTEM  
Neil Beckelheimer, Chief, Systems Support Branch, OCCS, NLM

The National Library of Medicine's computer system is being upgraded from an IBM 370/158 multiprocessor system to an IBM 370/168 multiprocessor system. This upgrade will almost triple the NLM's computer power. The IBM 370/168s have been installed in the new Lister Hill National Center for Biomedical Communications building and are currently undergoing testing. December 19, 1980 will be the last day of operation for the IBM 370/158 system; at that time the input/output devices, including the disk storage units which contain all of NLM's bibliographic data bases, will be moved to the IBM 370/168 system to form NLM's new computer system.



NEW SERIALS ANNOUNCEMENT - OCTOBER 1980  
 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.

ACOG  
 24N8,AUG 1980--  
 AMERICAN COLLEGE OF OBSTETRICIANS AND  
 GYNECOLOGISTS  
 CONTINUES ACOG NEWSLETTER.  
 CHICAGO UNITED STATES  
 IN PROCESS  
 A03674900

ARTS IN PSYCHOTHERAPY  
 7N1,1980--  
 ANKHO INTERNATIONAL  
 CONTINUES ART PSYCHOTHERAPY.  
 FAYETTEVILLE NY UNITED STATES  
 W1 AR959M  
 A68656000

ASAIO: JOURNAL OF THE AMERICAN SOCIETY OF  
 ARTIFICIAL INTERNAL ORGANS  
 1,1979--  
 LIPPINCOTT  
 PHILADELPHIA UNITED STATES  
 ON ORDER  
 A69020000

BEHAVIOURAL BRAIN RESEARCH  
 1,1980-  
 ELSEVIER/NORTH-HOLLAND  
 AMSTERDAM NETHERLANDS  
 ON ORDER  
 B02395000

BRITISH JOURNAL OF INTRAVENOUS THERAPY  
 1N1,JUL 1980--  
 MEDICAL NEWS TRIBUNE  
 LONDON ENGLAND  
 MEDICAL NEWS TRIBUNE, 1 BEDFORD STREET,  
 LONDON WC2E 9HD, ENGLAND  
 IN PROCESS  
 B34889000

CALIFORNIA OPTOMETRY  
 6N1,1980--  
 CALIFORNIA OPTOMETRIC ASSOCIATION  
 CONTINUES CALIFORNIA OPTOMETRIST.  
 SACRAMENTO CA UNITED STATES  
 IN PROCESS  
 C02630000

COGNITION AND LANGUAGE  
 1980?--  
 PLENUM PUBLISHING  
 NEW YORK UNITED STATES  
 ON ORDER  
 C28510000

CURRENT EYE RESEARCH  
 1980--  
 INFORMATION RETRIEVAL  
 LONDON ENGLAND  
 ON ORDER  
 C55670000

CYTOMETRY  
 JUL 1980--  
 WILLIAMS AND WILKINS  
 BALTIMORE MD UNITED STATES  
 ON ORDER  
 C58950000

DEVELOPMENTAL AND BEHAVIORAL PEDIATRICS  
 1,1980-  
 WILLIAMS AND WILKINS  
 BALTIMORE MD UNITED STATES  
 ON ORDER  
 D07930000

EMERGENCY MEDICAL SERVICES QUARTERLY  
 1,1979--  
 HAWORTH PRESS  
 NEW YORK UNITED STATES  
 ON ORDER  
 E59850000

GENERAL SURGERY  
 1,1978--  
 HOUGHTON PROFESSIONAL PUBLISHERS  
 BOSTON UNITED STATES  
 W1 GE272  
 G04505100

HEALTH CARE SECURITY AND SAFETY MANAGEMENT  
 1,MAY 1980--  
 HEALTH CARE SECURITY AND SAFETY MANAGEMENT  
 NEW YORK UNITED STATES  
 ON ORDER  
 H04250000



INTERNATIONAL JOURNAL OF BIOLOGICAL  
RESEARCH IN PREGNANCY  
1,1980--  
DUSTRI-VERLAG DR. KARL FEISTLE  
MUENCHEN GERMANY, WEST  
JACK K. BURGESS, INC., 44 ENGLE ST.,  
ENGLEWOOD, N.J. 07631  
IN PROCESS  
I26375000

JOURNAL OF THE ASSOCIATION FOR THE CARE OF  
CHILDREN'S HEALTH  
9N1,SUMMER 1980--  
CHARLES B. SLACK  
CONTINUES JOURNAL OF THE ASSOCIATION FOR  
THE CARE OF CHILDREN IN HOSPITALS.  
THOROFARE NJ UNITED STATES  
ON ORDER  
J13225000

JOURNAL OF LEISURABILITY  
7N3,JUL 1980--  
LEISURABILITY PUBLICATIONS  
CONTINUES LEISURABILITY.  
ONTARIO CANADA  
IN PROCESS  
J27570000

JOURNAL OF NEUROLOGICAL AND ORTHOPAEDIC  
SURGERY  
1,1980--  
THE AMERICAN ACADEMY OF NEUROLOGICAL AND  
ORTHOPAEDIC SURGEONS  
LAS VEGAS NV UNITED STATES  
EDITORIAL AND PUBLICATIONS OFFICE, AMERICAN  
ACADEMY OF NEUROLOGICAL AND ORTHOPAEDIC  
SURGEONS, 2320 RANCHO DRIVE, SUITE 108, LAS  
VEGAS, NV 89102  
IN PROCESS  
J31035100

JOURNAL OF OBSTETRICS AND GYNAECOLOGY  
1980--  
WILLIAMS AND WILKINS  
BALTIMORE MD UNITED STATES  
ON ORDER  
J32390000

IM JOURNAL OF TROPICAL PEDIATRICS  
26,1980--  
OXFORD JOURNALS  
CONTINUES JOURNAL OF TROPICAL PEDIATRICS  
AND ENVIRONMENTAL CHILD HEALTH.  
LONDON ENGLAND  
IN PROCESS  
J40790100

LITHIUM AND ANIMAL BEHAVIOR  
1,1978--  
HUMAN SCIENCES PRESS  
NEW YORK UNITED STATES  
ON ORDER  
L11390000

MEDICAL JOURNAL OF THE NEW YORK HOSPITAL -  
CORNELL MEDICAL CENTER  
1N1,MAY 1980--  
J.B. LIPPINCOTT COMPANY  
PHILADELPHIA UNITED STATES  
JOURNAL FULFILLMENT DEPARTMENT,  
LIPPINCOTT/HARPER, 2350 VIRGINIA AVE,  
HARGERSTOWN, MD 21740  
IN PROCESS  
M15135000

MODEL SYSTEMS SCI DIGEST  
1,1979--  
NATIONAL SPINAL CORD INJURY DATA RESEARCH  
CENTER  
PHOENIX AR UNITED STATES  
ON ORDER  
M41190000

NEPHROLOGIE  
1,1980--  
SOCIETE DE NEPHROLOGIE  
GENEVE SWITZERLAND  
NEPHROLOGIE, C/O MEDECINE ET HYGIENE, CASE  
POSTALE 229, CH - 1211 GENEVE 4, SWITZERLAND  
IN PROCESS  
N11695000  
\$31.00

NEUROBIOLOGY OF AGING  
1N1,SUMMER 1980--  
ANKHO INTERNATIONAL  
FAYETTEVILLE NY UNITED STATES  
ANKHO INTERNATIONAL, 7374 HIGHBRIDGE  
TERRACE, P.O. BOX 426, FAYETTEVILLE, NY  
13066  
ON ORDER  
N12490000  
\$75.00

NEW HORIZONS IN CARDIOVASCULAR DISEASES  
1PT1,1980--  
FUTURA PUBLISHING COMPANY  
MOUNT KISCO NY UNITED STATES  
IN PROCESS  
N14911000

ONCOLOGY TIMES  
1980--  
ONCOLOGY TIMES  
NEW YORK UNITED STATES  
ON ORDER  
O06754000

STUDIES IN APPLIED PSYCHOLINGUISTICS  
1980?--  
PLENUM PUBLISHING  
NEW YORK UNITED STATES  
ON ORDER  
S43910000

WORLD HEALTH FORUM  
1,1980--  
WORLD HEALTH ORGANIZATION  
GENEVA SWITZERLAND  
W1 W0873  
W09470000

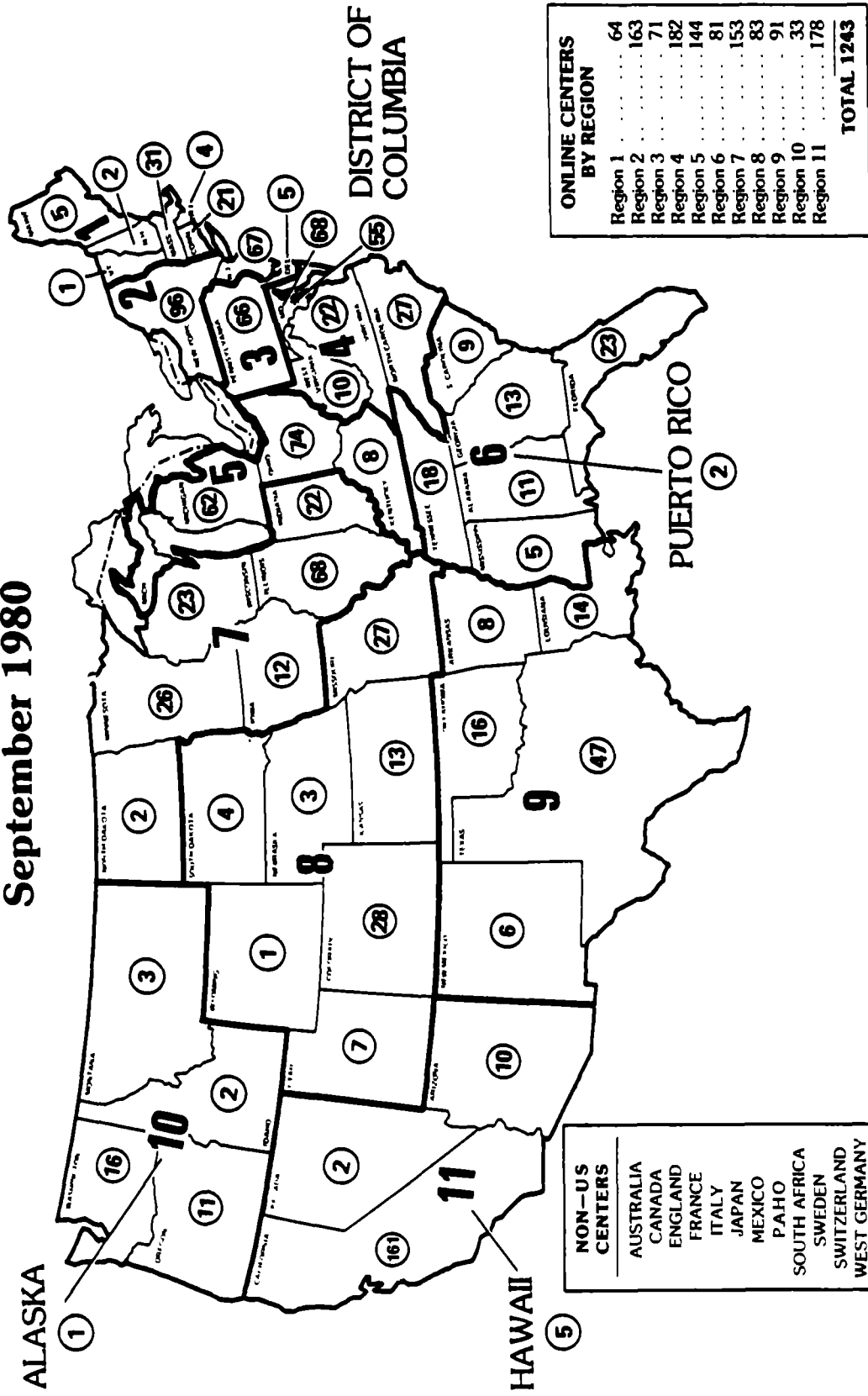






# ONLINE CENTERS IN THE UNITED STATES

## September 1980





# THE NLM TECHNICAL BULLETIN

DECEMBER 1980

NO. 140

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TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY FOR SPECIAL NOTICES AND MESSAGES

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

GRANT NUMBERS - With the January 1981 updates in December 1980 to MEDLINE, (Manual-Parts SDILINE, and HEALTH, NIH grant numbers will be available: 7 and 23)

Data Element: ID (ID number)

Definition: Research grant numbers or contract numbers or both that designate financial support by any agency of the United States Public Health Service or any Institute of the National Institutes of Health. These numbers will be input and, therefore, searched as cited in the literature.

Example: ID - CA-15704  
 ID - CA-21193  
 ID - N01-ES-8-2125  
 ID - +

Note: A maximum of three grant numbers is allowed; a plus sign as the fourth occurrence of the ID field indicates that more than three grant/contract numbers are cited in the article.

Searching hint:

Use the NEIGHBOR command followed by the institute/contract number, truncated, to check to see if the number has been entered and for the format.

NBR CA-157:

CANCERLIT - The past three CANCERLIT updates and their Entry Month (EM) (Manual, Part 16) tags are:

|                  |      |
|------------------|------|
| August-September | 8008 |
| October          | 8009 |
| November         | 8010 |

The December update will have the tag 8012 (EM). During the CANCERLIT regeneration (now expected in January 1981), the update tags will be corrected to reflect the proper months.

ALIASES FOR  
SAVE AND  
PROFILE  
COMMANDS  
(Manual  
4.9.17A,  
4.9.22)

- The following are aliases for command names, actions, and keywords which you might find helpful:

|         |            |                     |                                   |                            |
|---------|------------|---------------------|-----------------------------------|----------------------------|
| SAVE    | searchname | {                   | REMOVE<br>R<br>DELETE<br>DEL<br>D | }                          |
| SAVE    | {          | LIST<br>L           | }                                 |                            |
| PROFILE | {          | LIST<br>L<br>MODIFY | }                                 | {                          |
|         |            |                     |                                   | STORADD<br>STORAD          |
|         |            |                     |                                   | PAGELNGTH<br>PAGELEN<br>PL |
|         |            |                     |                                   | PAGEWIDTH<br>PW            |
|         |            |                     |                                   | PASSWORD<br>PWD            |

Note: When changing your UUSF, you may respond with:

- (a) a new value
- (b) SAME or S
- (c) REMOVE or R

Two attributes of your UUSF are mandatory and cannot be removed:

PAGELNGTH and PAGEWIDTH

CLINPROT  
(Manual  
18.3.15)

- CLINPROT was updated with 177 new records for a total of 2,116 records. The update tag is 8011 (EM). The data element SA (Supporting Agency) has been deleted from the data base with this update, as in the past this data was incomplete. There are no plans to enter Supporting Agency data in the future.

NED TIJDSCHR  
GERONTOL (TA)

- It has come to our attention that some citations in the 1980 Index Medicus and current MEDLINE file for the title Nederlands Tijdschrift voor Gerontologie have an incorrect title abbreviation. The correct abbreviation for this title is Ned Tijdschr Gerontol, as listed in the List of Journals Indexed in Index Medicus, 1980. The incorrect citations will be corrected on the MEDLINE file next month.

- NAME OF SUBSTANCE FIELD IN MEDLINE - The Name of Substance (NM) field in MEDLINE will be searchable as Name Fragments (NF) beginning with the January 1981 update.
- MESH VOCABULARY FILE (Manual 6.8.1, 6.8.2) - Five new data elements have been defined for the 1981 MESH VOCABULARY FILE, primarily to facilitate NLM's own cataloging process and to ensure consistency of certain MARC (Machine Readable Cataloging) codes appearing in cataloging records. They are:
1. CYC (Country of Publication Code) - The MARC country of publication code that corresponds to the MeSH geographic heading is in this field, e.g.:  
MH - Ethiopia  
CYC - ET
  2. GC (Geographic Area Code) - This field carries the MARC geographic area code that corresponds to the MeSH geographic subheading, e.g.:  
SH - Cameroon  
GC - F-CX
  3. LA (Language) - This LA field carries the MARC language code that corresponds to the language subheading, e.g.:  
SH - Icelandic  
LA - Ice
  4. LU (Language Usage) - The presence of this field containing the value C indicates that the language subheading is used only in cataloging records, e.g.:  
SH - Greek, Classical  
LA - Grc  
LU - C
  5. QX (Qualifier Cross Reference) - Terms that are to be used as printed "see" cross references to either the SH (Subheading) or LA (Language) fields are carried here, e.g.:  
SH - Dutch  
LA - Dut  
QX - Flemish
- All of the above are directly searchable except LU, and print with the PRT DL command.
- PRE-EXPLOSIONS - (Manual 4.5.4.1) A complete list of available pre-explosions, including those new in 1981, is included with this issue as Appendix A.
- TELEPHONE NUMBERS - Appendix B is a list of available telephone numbers used to access the NLM and SUNY computers.

INDEXING  
TECHNICAL  
MEMORANDUM 22

- Enclosed with this issue is a copy of annotations and corrections to annotations for the 1981 Annotated Alphabetic MeSH. They have been printed on one side only so that they can be cut and pasted into your copy.

RTECS  
UPDATE

- RTECS was updated in December and now contains 44,362 records. We expect additional toxic effects data now being provided by NIOSH to be available to online users with the next quarterly update. Additional toxic effects index terms and their use will be detailed in the NLM Technical Bulletin at that time.

\*\*\*\*\*

#### MONTHLY HINT: PRODUCING CATALOG CARDS FROM CATLINE OUTPUT

The following procedure for producing catalog cards from CATLINE was contributed by Mrs. DJ Zitko, Medical Librarian at the Salinas Valley Memorial Hospital, Salinas, California. The procedure requires special equipment (a copy machine capable of photoreducing); however, it is simple and "stamps out repetitive typing," as Mrs. Zitko points out.

The steps are as follows:

1. Modify your user profile to contain a 40-character pagewidth.
2. Produce CATLINE output at your terminal using the PRT CATCARD command.
3. Photoreduce the CATLINE record.
4. Use a 3" x 5" template to draw a border, then cut out the "proofslip."
5. Add your own call number and holdings if desired.
6. The "proofslips" can then be photocopied on card stock or sent to a card copy company for production of final copy.
7. Tracings can be over-typed on card sets if desired.

Thanks to Mrs. Zitko for sharing this useful suggestion with other users.

\*\*\*\*\*



SELECTED CITATIONS: ONLINE SERVICES  
Carolyn B. Tilley, MEDLARS Management Section, NLM

This is a list of selected citations to various articles describing the NLM online search system, terminals compatible with the NLM system, utilization of 1200 baud transmission, and searching experiences. It is not intended to be a comprehensive bibliography of the literature of online services or MEDLARS, but instead a list of articles that may prove interesting to those persons new to online searching.

Blair JC, Jr. Utilization of 1200 baud for on-line retrieval in a health sciences library. Bull Med Libr Assoc 1980 Jul;68(3):294-7.

Crawford W. CRT terminal checklist. J Libr Autom 1980 Mar;13(1):37-44.

Doszkocs TE, Rapp BA, and Schoolman HM. Automated information retrieval in science and technology. Science 1980 Apr 4;208(4):25-30.

Hawkins DT. Impact of on-line systems on a literature searching service. Spec Libr 1976 Dec;67(12):559-67.

McCarn DB. MEDLINE: An introduction to on-line searching. J Am Soc Inf Sci 1980 May;31(3):181-92.

Medical Informatics 1978 Sep;3(3):163-255. (Entire issue discusses NLM's online system including training, economics, data communications, hardware, software, the user network, searching, thesaurus, and indexing.)

Radwin MS. The intelligent person's guide to choosing a terminal for online interactive use. Online 1977 Jan;1(1):11-7.

Radwin MS. Choosing a terminal II. Online 1977 Apr;1(2):61-73.

Shirley S. A survey of computer search service costs in the academic health sciences library. Bull Med Libr Assoc 1978 Oct;66(4):390-6.

Stewart A. The 1200 baud experience. Online 1978 Jul;2(3):13-8.

Thueson J. On-line searches net data for administrators. Hospitals 1979 Jun 16;53(12):103-10.

Werner G. Use of on-line bibliographic retrieval services in health sciences libraries in the United States and Canada. Bull Med Libr Assoc 1979 Jan; 67(1):1-14.

\*\*\*\*\*

NEW SERIALS ANNOUNCEMENT - NOVEMBER 1980  
 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.

BIOLOGIA ET IMMUNOLOGIA REPRODUCTIONIS  
 1,1979--  
 BULGARIAN ACADEMY OF SCIENCES. INSTITUTE OF  
 BIOLOGY AND IMMUNOLOGY OF REPRODUCTION AND  
 DEVELOPMENT

SOFIA BULGARIA

IN PROCESS  
 B16290000

BOLETIN DE PSICOLOGIA  
 1,1978?--  
 MINISTERIO DE SALUD PUBLICA. HOSPITAL  
 PSIQUATRICO. DE LA HABANA

HABANA CUBA  
 DEPARTAMENTO DE PSICOLOGIA DEL HOSPITAL  
 PSIQUIATRICO DE LA HABANA, DELLA  
 INDEPENDENCIA NO. 26520, MAZORRA, LA  
 HABANA, CUBA  
 IN PROCESS  
 B28845000

CHUNG-KUO YAO LI HSUEH PAO. ACTA  
 PHARMACOLOGICA SINICA  
 1,SEP 1980--  
 SHANGHAI SCIENTIFIC AND TECHNICAL PUBLISHERS

SHANGHAI CHINA  
 SHANGHAI SCIENTIFIC AND TECHNICAL  
 PUBLISHERS, 450 RUI-JIN II RD., SHANGHAI  
 200020, CHINA  
 IN PROCESS  
 C21430000

CIENCIAS VETERINARIAS  
 1N1,SEP/DIC 1979--  
 DEPARTAMENTO DE PUBLICACIONES DE LA  
 UNIVERSIDAD NACIONAL

HEREDIA COSTA RICA

IN PROCESS  
 C22170000

DRUG INTERACTIONS INDEX  
 1979/80--  
 J.B. LIPPINCOTT CO.

PHILADELPHIA UNITED STATES

ON ORDER  
 D20870000

ENVIRONMENTAL IMPACT ASSESSMENT REVIEW  
 1N1,MAR 1980--  
 PLENUM PUBLISHING CORPORATION

NEW YORK UNITED STATES

IN PROCESS  
 E10022000  
 \$70.00

FUTURE HEALTH  
 1,1979--  
 CANADIANS FOR HEALTH RESEARCH

QUEBEC CANADA

ON ORDER  
 F15255000

INTERNATIONAL SYMPOSIUM ON COENZYME Q  
 2,1979--  
 ELSEVIER/NORTH-HOLLAND BIOMEDICAL PRESS  
 PROCEEDINGS OF 1ST INTERNATIONAL SYMPOSIUM  
 CATALOGED SEPARATELY IN NLM (QU 135 15894B  
 1976).  
 AMSTERDAM NETHERLANDS  
 ELSEVIER NORTH-HOLLAND, INC., 52 VANDERBILT  
 AVE., NEW YORK, N.Y. 10017  
 ON ORDER  
 I32290000

INTERNATIONAL SYMPOSIUM ON ODAVP IN  
 BLEEDING DISORDERS  
 1ST,1979--  
 F.K. SCHATTAUER VERLAG

STUTTGART GERMANY, WEST

IN PROCESS  
 I32450000

JEMS  
 5N1,MAR 1980--  
 BACKDRAFT PUBLICATIONS  
 CONTINUES PARAMEDICS INTERNATIONAL.  
 MORRISTOWN NJ UNITED STATES  
 ADDRESS: PARAMEDICS INTERNATIONAL, P.O. BOX  
 8265, LA CRESCENTA, CALIF. 91214  
 IN PROCESS  
 J07191000

NEUROPEPTIDES  
JUL 1980--  
CHURCHILL LIVINGSTONE

EDINBURGH

SCOTLAND

ON ORDER  
N13255000

POPULATION INFORMATION LIBRARY  
1,1980--  
PLENUM PRESS

NEW YORK UNITED STATES  
PLENUM PRESS 227 WEST 17TH STREET NEW YORK,  
NY 10011  
IN PROCESS  
P19210000

RADIOASSAY LIGAND ASSAY NEWS  
7, JAN 1980--  
SCIENTIFIC NEWSLETTER  
CONTINUES RADIOASSAY NEWS.  
ANAHEIM CA UNITED STATES

IN PROCESS  
R00670000

REVIEW OF PERSONALITY AND SOCIAL PSYCHOLOGY  
1,1980--  
SAGE PUBLICATIONS

BEVERLY HILLS CA

UNITED STATES

ON ORDER  
R26610000

VETERINARY RESEARCH COMMUNICATIONS  
4N2,AUG 1980--  
ELSEVIER SCIENTIFIC PUBLISHING COMPANY  
CONTINUES VETERINARY SCIENCE COMMUNICATIONS.  
AMSTERDAM NETHERLANDS

IN PROCESS  
V06670000

## LIST OF MONOGRAPHS INDEXED JANUARY 1981

### C

Clinical Conference on Cancer, 234, M. D. Anderson  
Hospital and Tumor Institute, Houston, 1978. Cancer of  
the genitourinary tract / edited by Douglas E. Johnson,  
Melvin L. Samuels. — New York : Raven Press, c1979.  
xviii, 320 p. : ill.  
1. Urogenital Neoplasms - congresses I. Johnson,  
Douglas E., 1934- ed. II. Samuels, Melvin L.,  
ed. III. Title  
ISBN 0-89004-383-3 LC: 79-2070  
04NLM: W3 C162H 23d 1978c  
0XNLM: [WJ 160 C641 1978c]  
IM Cit. No. 7903259 (rev. CIP.)

### F

Ferring Symposium on Brain and Pituitary Peptides,  
Munich, 1979. Brain and pituitary peptides : Ferring  
Symposium on Brain and Pituitary Peptides, Munich,  
June 30-July 1, 1979 / editors, W. Wuttke ... [et al.].  
— Basel ; New York : Karger, 1980. vi, 237 p. : ill.  
1. Brain - physiology - congresses 2. Peptides -  
congresses 3. Pituitary Hormones - congresses  
I. Wuttke, W., ed. II. Ferring AB. III. Title  
ISBN 3-8055-0165-X  
04NLM: WL 300 F392b 1979  
IM Cit. No. 8000472 (rev. CIP.)



AVAILABLE PRE-EXPLOSIONS

Pre-explosions added for 1981 are preceded by (81). All pre-explosions are now available in the HEALTH PLANNING & ADMINISTRATION data base as well as MEDLINE and its backfiles.

| <u>Pre-explosion Name (PX)</u>          | <u>Tree No.</u> |
|-----------------------------------------|-----------------|
| ANTIBIOTICS                             | D20.85          |
| BACTERIA                                | B3              |
| BACTERIAL INFECTIONS                    | C1.252          |
| BEHAVIOR                                | F1.145          |
| BRAIN                                   | A8.186.211      |
| CARBOHYDRATES                           | D9.203          |
| CARDIOVASCULAR DISEASES                 | C14             |
| CELLS                                   | A11             |
| CENTRAL NERVOUS SYSTEM                  | A8.186          |
| CENTRAL NERVOUS SYSTEM DISEASES         | C10.228         |
| (81)DENTISTRY                           | E6              |
| ENZYMES                                 | D8.586          |
| (81)HEALTH FACILITIES                   | N2.278          |
| (81)HEALTH SERVICES                     | N2.421          |
| HEART DISEASES                          | C14.280         |
| HORMONES                                | D6.472          |
| LIPIDS                                  | D10.516         |
| MAMMALS                                 | B2.649          |
| MENTAL DISORDERS                        | F3.709          |
| METABOLIC DISEASES                      | C18.452         |
| (81)MOUTH AND TOOTH DISEASES            | C7              |
| NEOPLASMS                               | C4              |
| NERVOUS SYSTEM                          | A8              |
| NERVOUS SYSTEM DISEASES                 | C10             |
| NEUROLOGIC MANIFESTATIONS               | C10.597         |
| PROTEINS                                | D12.776         |
| (81)RESPIRATORY TRACT DISEASES          | C8              |
| (81)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  |
| VERTEBRATE VIRUSES                      | B4.909          |
| VERTEBRATES                             | B2              |
| (81)VIRUS DISEASES                      | C2              |
| WOUNDS AND INJURIES                     | C21.866         |

This year two pre-explosion names are (NON MESH) terms. However, omit the "(NON MESH)" in the pre-explosion statement, i.e.,

MOUTH AND TOOTH DISEASES (PX)  
 SIGNS AND SYMPTOMS (PX)

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



PHONES LIST

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

FOR 120 CPS USE COMPATIBLE MODEMS INCLUDE:

V3405 = VADIC 3405 MODEM COMPATIBLE. THE FOLLOWING VADIC MODEMS ARE V3405 COMPATIBLE: VA3455P, VA3451P, VA3434. THE FOLLOWING ANDERSON JACOBSON MODEMS ARE V3405 COMPATIBLE: AJ1234 AND AJ1255.

B/V = TELENET VADIC SUPER MODEM (V3467) NODE. USERS WITH EITHER B212A OR V3405-COMPATIBLE MODEMS MAY USE THESE NUMBERS.

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    |                                             |                                        |       | 205/251-2495 |      |       |
| AL | BESSEMER    |                                             |                                        |       | 205/326-3420 | B/V  | 120   |
| AL | BIRMINGHAM  | 205/942-4141                                | B                                      |       | 205/251-2495 |      |       |
| AL | BIRMINGHAM  | 205/834-3410                                | B212A                                  | 120   | 205/326-3420 | B/V  | 120   |
| AL | HUNTSVILLE  | 205/533-5137                                | FX B                                   |       |              |      |       |
| AL | MOBILE      |                                             |                                        |       | 205/432-8015 |      |       |
| AL | MOBILE      |                                             |                                        |       | 205/432-1680 | B/V  | 120   |
| AL | MONTGOMERY  | 205/834-3410                                | FX B                                   |       |              |      |       |
| AR | FT. SMITH   | 501/782-3210                                | B212A                                  | 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   |
| AZ | MESA        |                                             |                                        |       | 602/257-1552 |      |       |
| AZ | MESA        |                                             |                                        |       | 602/271-0533 | B/V  | 120   |
| AZ | PHOENIX     | 602/249-9261                                | B                                      |       | 602/257-1552 |      |       |
| AZ | PHOENIX     | 602/249-3862                                | B212A                                  | 120   | 602/271-0533 | B/V  | 120   |
| AZ | SCOTTSDALE  |                                             |                                        |       | 602/257-1552 |      |       |
| AZ | SCOTTSDALE  |                                             |                                        |       | 602/271-0533 | B/V  | 120   |
| AZ | TEMPE       |                                             |                                        |       | 602/257-1552 |      |       |
| AZ | TEMPE       |                                             |                                        |       | 602/271-0533 | B/V  | 120   |
| AZ | TUCSON      | 602/790-0764                                | B                                      |       | 602/790-0427 |      |       |
| AZ | TUCSON      | 602/747-4097                                | B212A                                  | 120   | 602/745-1666 | B/V  | 120   |
| CA | ALHAMBRA    | 213/572-0999                                | FX B                                   |       | 213/956-8235 |      |       |
| CA | ALHAMBRA    |                                             |                                        |       | 213/246-0318 | B/V  | 120   |
| CA | ARDADIA     | 213/574-7636                                | FX B                                   |       |              |      |       |
| CA | ANAHEIM     |                                             |                                        |       | 714/558-6061 |      |       |
| CA | ANAHEIM     |                                             |                                        |       | 714/558-7078 | B/V  | 120   |
| CA | BURLINGAME  | 415/348-4992                                | FX B                                   |       | 415/595-0360 |      |       |
| CA | BURLINGAME  |                                             |                                        |       | 415/591-0726 | B/V  | 120   |
| CA | CANOGA PARK |                                             |                                        |       | 213/822-9287 |      |       |
| CA | CANOGA PARK |                                             |                                        |       | 210/306-2984 | B/V  | 120   |
| CA | COLTON      | 714/825-9372                                | B                                      |       | 714/824-1710 |      |       |
| CA | COLTON      | 714/824-8170                                | B212A                                  | 120   | 213/549-5150 | B/V  | 120   |
| CA | COLTON      |                                             |                                        |       | 714/824-3805 | B/V  | 120   |
| CA | CUPERTINO   | 408/446-7309                                | B212A                                  | 120   |              |      |       |
| CA | CUPERTINO   | 408/446-7001                                | V3405                                  | 120   |              |      |       |
| CA | CUPERTINO   | 408/446-1470                                | B                                      |       | 408/279-8450 |      |       |
| CA | CUPERTINO   |                                             |                                        |       | 408/279-2425 | B/V  | 120   |
| CA | CUPERTINO   | 408/257-0593                                | CCITT RESTRICTED FOR OVERSEAS USE ONLY |       |              |      |       |
| CA | EL CONDIDO  |                                             |                                        |       | 714/747-0810 |      |       |
| CA | EL MONTE    |                                             |                                        |       | 213/956-8235 |      |       |
| CA | EL MONTE    |                                             |                                        |       | 213/246-0318 | B/V  | 120   |

| ST | CITY             | TYMNET       | TYPE     | SPEED | TELENET      | TYPE  | SPEED |
|----|------------------|--------------|----------|-------|--------------|-------|-------|
| CA | EL SEGUNDO       | 213/640-1570 | B        |       | 213/822-9287 |       |       |
| CA | EL SEGUNDO       | 213/640-1281 | B212A    | 120   | 213/308-2984 | B/V   | 120   |
| CA | FRESNO           | 209/445-0911 | FX B     |       |              |       |       |
| CA | FULLERTON        |              |          |       | 714/558-6061 |       |       |
| CA | FULLERTON        |              |          |       | 714/558-7078 | B/V   | 120   |
| CA | GARDEN GROVE     |              |          |       | 714/891-5711 |       |       |
| CA | GARDEN GROVE     |              |          |       | 714/898-9820 | B/V   | 120   |
| CA | GLENDALE         |              |          |       | 213/956-8235 |       |       |
| CA | GLENDALE         |              |          |       | 213/246-0318 | B/V   | 120   |
| CA | HAYWARD          | 415/785-3431 | B        |       | 415/881-1382 |       |       |
| CA | HOLLYWOOD        |              |          |       | 213/624-5230 |       |       |
| CA | HOLLYWOOD        |              |          |       | 213/937-3580 |       |       |
| CA | HOLLYWOOD        |              |          |       | 213/624-0901 | B212A | 120   |
| CA | HOLLYWOOD        |              |          |       | 213/624-1521 | V3405 | 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 |       |       |
| CA | INGLEWOOD        |              |          |       | 213/624-0901 | B212A | 120   |
| CA | INGLEWOOD        |              |          |       | 213/624-1521 | V3405 | 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      | 213/683-0451 | B        |       | 213/624-5230 |       |       |
| CA | LOS ANGELES      | 213/629-3451 | B        |       |              |       |       |
| CA | LOS ANGELES      | 213/629-1561 | B        |       | 213/937-3580 |       |       |
| CA | LOS ANGELES      | 213/687-8083 | V3405    | 120   | 213/624-1521 | V3405 | 120   |
| CA | LOS ANGELES      | 213/626-0365 | B212A    | 120   | 213/624-0901 | B212A | 120   |
| CA | MARINA DEL REY   | 213/821-2257 | FX B     |       | 213/822-9287 |       |       |
| CA | MARINA DEL REY   |              |          |       | 213/306-2984 | B/V   | 120   |
| CA | MODESTO          | 209/578-4236 | FX B     |       |              |       |       |
| CA | MOUNTAIN VIEW    | 415/961-7971 | B        |       | 415/856-7930 |       |       |
| CA | MOUNTAIN VIEW    | 415/941-8450 | B        |       |              |       |       |
| CA | MOUNTAIN VIEW    | 415/949-0330 | B212A    | 120   | 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 | NORWALK          | 213/865-2066 | FX B212A | 120   |              |       |       |
| CA | OAKLAND          | 415/836-8700 | B        |       | 415/836-4884 |       |       |
| CA | OAKLAND          | 415/836-8900 | B212A    | 120   | 415/836-4911 | B/V   | 120   |
| CA | OXNARD           | 805/487-0482 | B        |       | 805/659-4660 |       |       |
| CA | OXNARD           | 805/486-4536 | B212A    | 120   | 805/647-6760 | B/V   | 120   |
| CA | PALM SPRINGS     |              |          |       | 714/320-7491 |       |       |
| CA | PALO ALTO        | 415/856-9080 | B        |       | 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         |              |          |       | 213/246-0318 | B/V   | 120   |
| CA | REDWOOD CITY     |              |          |       | 415/595-0360 |       |       |
| CA | REDWOOD CITY     |              |          |       | 415/591-0726 | B/V   | 120   |
| CA | RIVERSIDE        | 714/825-9372 | B        |       | 714/824-1710 |       |       |
| CA | RIVERSIDE        | 714/824-8170 | B212A    | 120   | 714/824-3805 | B/V   | 120   |
| CA | SACRAMENTO       | 916/441-6550 | B        |       | 916/443-7921 |       |       |
| CA | SACRAMENTO       | 916/448-8151 | B212A    | 120   | 916/448-6262 | B/V   | 120   |
| CA | SALINAS          |              |          |       | 408/443-4980 |       |       |
| CA | SALINAS          |              |          |       | 408/443-4940 | B/V   | 120   |
| CA | SAN BERNADINO    |              |          |       | 714/824-1710 |       |       |
| CA | SAN BERNADINO    |              |          |       | 714/824-3805 | 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        | 714/293-3590 | B212A    | 120   | 714/233-0233 | B/V   | 120   |
| CA | SAN DIEGO        | 714/291-8700 | B        |       | 714/231-1922 |       |       |
| CA | SAN FRANCISCO    | 415/986-8200 | B        |       | 415/362-6200 |       |       |
| CA | SAN FRANCISCO    | 415/362-4307 | B        |       |              |       |       |
| CA | SAN FRANCISCO    | 415/421-7121 | V3405    | 120   | 415/956-5777 | B/V   | 120   |
| CA | SAN FRANCISCO    | 415/788-7955 | B212A    | 120   |              |       |       |
| CA | SAN FRANCISCO    | 415/981-5990 | B212A    | 120   |              |       |       |
| CA | SAN JOSE         | 408/446-1470 | B        |       | 408/279-8450 |       |       |
| 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 B     |       | 213/549-5150 |       |       |
| CA | SAN PEDRO        |              |          |       | 213/548-6141 | B/V   | 120   |
| CA | SANTA ANA        |              |          |       | 714/558-6061 |       |       |
| CA | SANTA ANA        |              |          |       | 714/558-7078 | B/V   | 120   |



| ST | CITY                                   | TYMNET                     | TYPE     | SPEED  | TELENET      | TYPE  | SPEED |
|----|----------------------------------------|----------------------------|----------|--------|--------------|-------|-------|
| CA | SANTA BARBARA                          | 805/687-6119               | FX B     |        |              |       |       |
| CA | SANTA CLARA                            |                            |          |        | 408/279-8450 |       |       |
| CA | SANTA CLARA                            |                            |          |        | 408/279-2425 | B/V   | 120   |
| CA | SANTA CRUZ                             | 408/429-9572               | B212A    | 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                               |                            |          |        | 213/822-9287 |       |       |
| CA | VAN NUYS                               | 213/986-9503               | FX B     |        |              |       |       |
| CA | VENTURA                                | 805/487-0482               | B        |        | 805/659-4660 |       |       |
| CA | VENTURA                                | 805/486-4536               | B212A    | 120    | 805/647-6760 | B/V   | 120   |
| CA | VISTA                                  | 714/727-6011               | FX B     |        |              |       |       |
| CA | WEST COVINA                            | 213/331-3954               | B        |        |              |       |       |
| CA | WOODSIDE                               |                            |          |        | 415/856-9930 |       |       |
| CA | WOODSIDE                               |                            |          |        | 415/856-9995 | B/V   | 120   |
| CO | AURORA                                 |                            |          |        | 303/623-0876 |       |       |
| CO | AURORA                                 |                            |          |        | 303/629-1821 | B/V   | 120   |
| CO | BOULDER                                |                            |          |        | 303/623-0876 |       |       |
| CO | BOULDER                                |                            |          |        | 303/629-1821 | B/V   | 120   |
| CO | COLO. SPRINGS                          | 303/475-2121               | FX B     |        |              |       |       |
| CO | COLO. SPRINGS                          | 303/633-9599               | B212A    | 120    |              |       |       |
| CO | DENVER                                 | 303/573-9981               | B        |        | 303/623-0876 |       |       |
| CO | DENVER                                 | 303/573-0177               | B        |        |              |       |       |
| CO | DENVER                                 | 303/572-1107               | V3405    | 120    |              |       |       |
| CO | DENVER                                 | 303/825-0635               | B212A    | 120    | 303/629-1821 | B/V   | 120   |
| CO | LAKEMOOD                               |                            |          |        | 303/623-0876 |       |       |
| CO | LAKEMOOD                               |                            |          |        | 303/629-1821 | B212A | 120   |
| CT | BRIDGEPORT                             | 203/579-7820               | FX B     |        |              |       |       |
| CT | DANBURY                                | 203/743-1340               | FX B     |        |              |       |       |
| CT | DARIEN                                 | 203/655-8931               | B        |        |              |       |       |
| CT | DARIEN                                 | 203/655-7951               | B212A    | 120    |              |       |       |
| CT | FAIRFIELD/BRDGPT                       | 203/333-4926               | B212A    | 120    |              |       |       |
| CT | GREENWICH                              |                            |          |        | 203/357-1800 |       |       |
| CT | GREENWICH                              |                            |          |        | 203/348-0787 | B/V   | 120   |
| CT | HARTFORD                               | 203/568-2610               | B        |        | 203/522-0344 |       |       |
| CT | HARTFORD                               | 203/569-3643               | B212A    | 120    | 203/247-9479 | B/V   | 120   |
| CT | MILFORD                                |                            |          |        | 203/789-0211 |       |       |
| CT | MILFORD                                |                            |          |        | 203/624-5954 | B/V   | 120   |
| CT | NEW HAVEN                              | 203/789-0579               | B        |        | 203/789-0211 |       |       |
| CT | NEW HAVEN                              | 203/767-1702               | B212A    | 120    | 203/624/5954 | B/V   | 120   |
| CT | STAMFORD                               |                            |          |        | 203/357-1800 |       |       |
| 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                             | 703/841-0200               | B        |        | 202/347-1400 |       |       |
| DC | WASHINGTON                             | 703/841-9560               | B        |        | 202/783-2050 |       |       |
| DC | WASHINGTON                             | 703/841-9330               | V3405    | 120    | 202/347-6093 | V3405 | 120   |
| DC | WASHINGTON                             | 703/524-9214               | B212A    | 120    | 202/347-3061 | B212A | 120   |
| DC | WASHINGTON                             | 703/734-8370               | B212A    | 120    | 202/347-6757 | B/V   | 120   |
| DC | WASHINGTON*                            | 301/492-3150               |          | 30/120 |              |       |       |
|    | (AUTOM. SPEED DETECTOR - ENTER P (CR)) |                            |          |        |              |       |       |
| DC | WASHINGTON*                            | 301/492-3121               |          | 15     |              |       |       |
| DC | WASHINGTON*                            | 301/492-3142               | B2023    | 120    |              |       |       |
| DC | WASHINGTON*                            | 301/492-3129               | V3405    | 120    |              |       |       |
| DC | WASHINGTON*                            | 301/492-3124               | B208     |        |              |       |       |
|    | (IBM 2780/3780 COMPATIBLE)             |                            |          |        |              |       |       |
| DC | WASHINGTON*                            | 301/492-3125               | B208     |        |              |       |       |
|    | (IBM 2780/3780 COMPATIBLE)             |                            |          |        |              |       |       |
| DE | WILMINGTON                             | 302/658-5261               | FX B     |        | 302/737-8550 |       |       |
| DE | WILMINGTON                             | 302/658-8611               | B212A    | 120    | 302/737-8883 | B/V   | 120   |
| FL | CLEARWATER                             |                            |          |        | 613/823-3223 |       |       |
| FL | DAYTONA BEACH                          | 904/252-4481               | FX B     |        |              |       |       |
| FL | FT LAUDERDALE                          | 305/467-7550               | FX B     |        | 305/764-8880 |       |       |
| FL | FT LAUDERDALE                          | 305/467-3807               | B212A    | 120    | 305/764-4505 | B/V   | 120   |
| FL | HOLLY HILL                             |                            |          |        | 904/252-6637 |       |       |
| FL | JACKSONVILLE                           | 904/721-8100               | B        |        | 904/356-0790 |       |       |
| FL | JACKSONVILLE                           |                            |          |        | 904/356-2264 | B/V   | 120   |
| FL | MIAMI                                  | 305/374-7120               | B        |        | 305/371-4801 |       |       |
| FL | MIAMI                                  | 305/358-7271               | B212A    | 120    | 305/371-4822 | B/V   | 120   |
| FL | ORLANDO                                | 305/851-3530 (30 CFS ONLY) |          |        | 305/849-9600 |       |       |
| FL | ORLANDO                                | 305/859-7670               | B212A    | 120    | 305/422-4088 | B/V   | 120   |
| FL | PENSACOLA                              | 904/434-0134               | FX B     |        |              |       |       |
| FL | ST PETERSBURG                          | 813/535-6441               | B        |        | 813/823-3223 |       |       |
| FL | SARASOTA                               | 813/365-3526               | FX B212A | 120    |              |       |       |

| ST | CITY            | TYNET                                       | TYPE  | SPEED | TELENET      | TYPE  | SPEED |  |
|----|-----------------|---------------------------------------------|-------|-------|--------------|-------|-------|--|
| FL | TAMPA           | 813/977-8032                                | B     |       | 813/224-9920 |       |       |  |
| FL | TAMPA           | 813/977-3891                                | B212A | 120   | 813/223-1068 | B/V   | 120   |  |
| FL | W PALM BEACH    | 305/622-2871                                | FX B  |       |              |       |       |  |
| GA | ATLANTA         | 404/659-6670                                | B     |       | 404/577-8911 |       |       |  |
| GA | ATLANTA         | 404/581-0619                                | B212A | 120   | 404/523-0834 | B/V   | 120   |  |
| GA | COLUMBUS        |                                             |       |       | 404/324-0684 |       |       |  |
| GA | SAVANNAH        | 912/352-7259                                | FX B  |       | 912/236-2605 |       |       |  |
| HI | HONOLULU        | CONTACT HAWAII TELEPHONE COMPANY FOR ACCESS |       |       |              |       |       |  |
| IA | CEDAR RAPIDS    | 319/363-2482                                | FX B  |       | 319/363-2393 |       |       |  |
| IA | COUNCIL BLUFFS  |                                             |       |       | 402/341-7570 |       |       |  |
| IA | COUNCIL BLUFFS  |                                             |       |       | 402/341-7733 | B212A | 120   |  |
| IA | DAVENPORT       | 319/324-7197                                | V3405 | 120   |              |       |       |  |
| IA | DES MOINES      | 515/288-6640                                | B     |       | 515/288-7163 |       |       |  |
| IA | DES MOINES      |                                             |       |       | 515/288-4403 | B/V   | 120   |  |
| IA | IOWA CITY       | 319/354-7371                                | FX B  |       |              |       |       |  |
| IA | WATERLOO        | 319/233-7227                                | B212A | 120   |              |       |       |  |
| ID | BOISE           | 208/343-4851                                | B     |       | 208/344-7823 |       |       |  |
| ID | BOISE           | 208/344-4311                                | B212A | 120   |              |       |       |  |
| IL | ARLINGTON HTS   |                                             |       |       | 312/372-4901 |       |       |  |
| IL | ARLINGTON HTS   |                                             |       |       | 312/263-3069 | B212A | 120   |  |
| IL | ARLINGTON HTS   |                                             |       |       | 312/726-1957 | V3405 | 120   |  |
| IL | CHAMPAIGN       |                                             |       |       | 217/384-0011 |       |       |  |
| IL | CHAMPAIGN       |                                             |       |       | 217/384-6428 | B/V   | 120   |  |
| IL | CHICAGO         | 312/346-4961                                | B     |       | 312/372-4901 |       |       |  |
| IL | CHICAGO         | 312/368-4700                                | B     |       |              |       |       |  |
| IL | CHICAGO         | 312/368-4607                                | B     |       |              |       |       |  |
| IL | CHICAGO         | 312/641-1630                                | B212A | 120   | 312/263-3069 | B212A | 120   |  |
| IL | CHICAGO         | 312/372-0391                                | V3405 | 120   | 312/726-1957 | V3405 | 120   |  |
| IL | CICERO          |                                             |       |       | 312/372-4901 |       |       |  |
| IL | CICERO          |                                             |       |       | 312/263-3069 | B212A | 120   |  |
| IL | CICERO          |                                             |       |       | 312/726-1957 | V3405 | 120   |  |
| IL | E. ST. LOUIS    |                                             |       |       | 314/231-8800 |       |       |  |
| IL | E. ST. LOUIS    |                                             |       |       | 314/241-8150 | B/V   | 120   |  |
| IL | FREEMONT        | 815/233-5585                                | B     |       |              |       |       |  |
| IL | JOLIET          | 815/723-9854                                | B212A | 120   |              |       |       |  |
| IL | OAK PARK        |                                             |       |       | 312/372-4901 |       |       |  |
| IL | OAK PARK        |                                             |       |       | 312/263-3069 | B212A | 120   |  |
| IL | OAK PARK        |                                             |       |       | 312/726-1957 | V3405 | 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          |                                             |       |       | 312/372-4901 |       |       |  |
| IL | SKOKIE          |                                             |       |       | 312/263-3069 | B212A | 120   |  |
| IL | SKOKIE          |                                             |       |       | 312/726-1957 | V3405 | 120   |  |
| IL | SPRINGFIELD     | 217/753-7905                                | B     |       | 217/753-1362 |       |       |  |
| IL | SPRINGFIELD     | 217/753-7900                                | B212A | 120   | 217/753-1373 | B/V   | 120   |  |
| IL | URBANA          |                                             |       |       | 217/384-0011 |       |       |  |
| IL | URBANA          |                                             |       |       | 217/384-6428 | B/V   | 120   |  |
| IN | EVANSVILLE      | 812/423-6885                                | FX B  |       |              |       |       |  |
| IN | FT WAYNE        | 219/424-5162                                | FX B  |       |              |       |       |  |
| IN | GARY            |                                             |       |       | 219/882-6300 |       |       |  |
| IN | GARY            |                                             |       |       | 219/882-8800 | B/V   | 120   |  |
| IN | INDIANAPOLIS    | 317/926-1253                                | B212A | 120   | 317/634-5708 | B/V   | 120   |  |
| IN | INDIANAPOLIS    | 317/257-3461                                | B     |       | 317/635-9630 |       |       |  |
| IN | KOKOMO          |                                             |       |       | 317/456-3851 |       |       |  |
| IN | MARION          | 317/662-0091                                | FX B  |       |              |       |       |  |
| IN | MERRILLVILLE    | 219/769-7254                                | FX B  |       |              |       |       |  |
| IN | MISHAWKA        |                                             |       |       | 219/234-9071 |       |       |  |
| IN | MISHAWKA        |                                             |       |       | 219/233-7105 | B/V   | 120   |  |
| IN | OSCEOLA         |                                             |       |       | 219/234-9071 |       |       |  |
| IN | OSCEOLA         |                                             |       |       | 219/233-7105 | B/V   | 120   |  |
| IN | SOUTH BEND      | 219/233-4163                                | B     |       | 219/234-9071 |       |       |  |
| IN | SOUTH BEND      |                                             |       |       | 219/233-7105 | B/V   | 120   |  |
| KS | KANSAS CITY     | 913/677-2833                                | B     |       | 816/474-1600 |       |       |  |
| KS | KANSAS CITY     | 913/677-0707                                | B212A | 120   | 816/421-0375 | B/V   | 120   |  |
| KS | SHAMNEE MISSION | 913/677-2833                                | B     |       |              |       |       |  |
| KS | SHAMNEE MISSION | 913/677-0707                                | B212A | 120   |              |       |       |  |
| KS | TOPEKA          | 913/233-0690                                | FX B  |       | 913/232-6816 |       |       |  |
| KS | WICHITA         | 316/265-1241                                | B     |       |              |       |       |  |
| KS | WICHITA         | 316/264-7386                                | B212A | 120   |              |       |       |  |
| KY | FRANKFORT       |                                             |       |       | 502/223-1841 |       |       |  |
| KY | LEXINGTON       | 606/263-3463                                | B     |       | 606/233-0312 |       |       |  |
| KY | LEXINGTON       | 606/253-3498                                | B212A | 120   |              |       |       |  |
| KY | LOUISVILLE      |                                             |       |       | 502/589-7520 |       |       |  |
| KY | LOUISVILLE      | 502/361-2645                                | 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   |              |       |       |  |

| ST | CITY          | TYMNET       | TYPE  | SPEED | TELENET      | TYPE         | SPEED   |
|----|---------------|--------------|-------|-------|--------------|--------------|---------|
| LA | LAFAYETTE     | 318/235-3501 | FX    | B     |              |              |         |
| LA | MONROE        |              |       |       | 318/387-6330 |              |         |
| LA | NEW ORLEANS   | 504/586-1071 | B     |       | 504/524-0783 |              |         |
| LA | NEW ORLEANS   | 504/524-4371 | B212A | 120   | 504/524-4094 | B212A        | 120     |
| LA | SHREVEPORT    |              |       |       | 318/221-2984 |              |         |
| LA | SHREVEPORT    | 318/688-4666 | FX    | B212A | 120          | 318/221-5833 | B/V 120 |
| NH | CONCORD       |              |       |       | 603/224-8110 |              |         |
| MA | ARLINGTON     | 617/482-4677 | B     |       |              |              |         |
| MA | ARLINGTON     | 617/482-5622 | B     |       | 617/338-1400 |              |         |
| NH | NASHUA        |              |       |       | 603/431-2302 |              |         |
| MA | ARLINGTON     | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A        | 120     |
| MA | ARLINGTON     | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405        | 120     |
| MA | BOSTON        | 617/482-4677 | B     |       |              |              |         |
| MA | BOSTON        | 617/482-5622 | B     |       | 617/338-1400 |              |         |
| MA | BOSTON        | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A        | 120     |
| MA | BOSTON        | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405        | 120     |
| MA | BROOKLINE     | 617/482-4677 | B     |       |              |              |         |
| MA | BROOKLINE     | 617/482-5622 | B     |       | 617/338-1400 |              |         |
| MA | BROOKLINE     | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A        | 120     |
| MA | BROOKLINE     | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405        | 120     |
| MA | CAMBRIDGE     | 617/482-4677 | B     |       |              |              |         |
| MA | CAMBRIDGE     | 617/482-5622 | B     |       | 617/338-1400 |              |         |
| MA | CAMBRIDGE     | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A        | 120     |
| MA | CAMBRIDGE     | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405        | 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 | MEDFORD       | 617/482-4677 | B     |       |              |              |         |
| MA | MEDFORD       | 617/482-5622 | B     |       | 617/338-1400 |              |         |
| MA | MEDFORD       | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A        | 120     |
| MA | MEDFORD       | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405        | 120     |
| MA | NEWTON        | 617/482-4677 | B     |       |              |              |         |
| MA | NEWTON        | 617/482-5622 | B     |       | 617/338-1400 |              |         |
| MA | NEWTON        | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A        | 120     |
| MA | NEWTON        | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405        | 120     |
| MA | QUINCY        | 617/482-4677 | B     |       |              |              |         |
| MA | QUINCY        | 617/482-5622 | B     |       | 617/338-1400 |              |         |
| MA | QUINCY        | 617/482-3386 | B212A |       | 617/542-0754 | B212A        | 120     |
| MA | QUINCY        | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405        | 120     |
| MA | SOMERVILLE    | 617/482-4677 | B     |       |              |              |         |
| MA | SOMERVILLE    | 617/482-5622 | B     |       | 617/338-1400 |              |         |
| MA | SOMERVILLE    | 617/482-3386 | B212A | 120   | 617/542-0754 | B212A        | 120     |
| MA | SOMERVILLE    | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405        | 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   | 617/542-0754 | B212A        | 120     |
| MA | WALTHAM       | 617/482-1854 | V3405 | 120   | 617/338-7495 | V3405        | 120     |
| MA | WORCESTER     | 617/754-9451 | FX    | B     | 617/755-4810 |              |         |
| 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   | 301/685-3339 | B/V          | 120     |
| MD | BETHESDA      | 703/841-0200 | B     |       | 202/347-1400 |              |         |
| MD | BETHESDA      | 703/524-9215 | B212A | 120   | 202/347-3061 | B212A        | 120     |
| MD | BETHESDA      | 703/841-9330 | V3405 | 120   | 202/347-6093 | V3405        | 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   | 301/685-3339 | B/V          | 120     |
| MD | ROCKVILLE     | 703/841-0200 | B     |       | 202/347-1400 |              |         |
| MD | ROCKVILLE     | 703/524-9215 | B212A | 120   | 202/347-3061 | B212A        | 120     |
| MD | ROCKVILLE     | 703/841-9330 | V3405 | 120   | 202/347-6093 | V3405        | 120     |
| 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 | V3405        | 120     |
| MD | TOWSON        | 301/547-8100 | B     |       | 301/962-5010 |              |         |
| MD | TOHSON        | 301/244-8959 | B212A | 120   | 301/685-3339 | B/V          | 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 | 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   |              |              |         |

| ST | CITY           | TYMNET       | TYPE     | SPEED | TELENET      | TYPE | SPEED |
|----|----------------|--------------|----------|-------|--------------|------|-------|
| MI | FLINT          | 313/732-7303 | B212A    | 120   |              |      |       |
| MI | GRAND RAPIDS   | 616/459-5069 | FX B     |       | 616/458-1200 |      |       |
| MI | GRAND RAPIDS   | 616/456-9092 | B212A    | 120   | 616/774-0966 |      |       |
| MI | JACKSON        | 517/787-9461 | B        |       |              |      |       |
| MI | KALAMAZOO      | 616/385-3150 | B        |       |              |      |       |
| MI | LANSING        | 517/487-2040 | FX B     |       | 517/372-5400 |      |       |
| MI | LANSING        |              |          |       | 517/372-5420 | B/V  | 120   |
| MI | MANISTEE       | 616/723-8760 | FX B     |       |              |      |       |
| MI | PLYMOUTH       | 313/459-8900 | B        |       |              |      |       |
| MI | PLYMOUTH       | 313/459-8100 | B212A    | 120   |              |      |       |
| MI | SOUTHFIELD     | 313/569-8350 | B        |       |              |      |       |
| MI | ST JOSEPH      | 616/429-2568 | FX B     |       |              |      |       |
| MI | TRAVERS CITY   | 616/946-0002 | FX B     |       |              |      |       |
| MN | DULUTH         |              |          |       | 218/722-0906 |      |       |
| MN | MANKATO        | 507/625-1684 | B212A    | 120   |              |      |       |
| MN | MINNEAPOLIS    | 612/339-5200 | B        |       | 612/339-0150 |      |       |
| MN | MINNEAPOLIS    | 612/339-2415 | B212A    | 120   | 612/338-3782 | B/V  | 120   |
| MN | ROCHESTER      | 507/282-3741 | B212A    | 120   |              |      |       |
| MN | ST. PAUL       | 612/339-5200 | B        |       | 612/339-0150 |      |       |
| MN | ST. PAUL       | 612/339-2415 | B212A    | 120   | 612/338-3782 | B/V  | 120   |
| MO | BRIDGETON      | 314/731-2304 | FX B     |       |              |      |       |
| MO | COLUMBIA       | 314/875-1150 | FX B     |       |              |      |       |
| MO | FLORISSANT     |              |          |       | 314/231-8800 |      |       |
| MO | FLORISSANT     |              |          |       | 314/241-8150 | B/V  | 120   |
| MO | JOPLIN         | 417/782-3037 | B212A    | 120   |              |      |       |
| MO | KANSAS CITY    | 913/677-2833 | B        |       | 816/474-1600 |      |       |
| MO | KANSAS CITY    | 913/677-0707 | B212A    | 120   | 816/421-0375 | 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        |       | 314/231-8800 |      |       |
| MO | ST LOUIS       | 314/621-4660 | B212A    | 120   | 314/241-8150 | B/V  | 120   |
| MS | JACKSON        | 601/944-0860 | FX B     |       |              |      |       |
| 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   |              |      |       |
| NE | OMAHA          | 402/392-2970 | B        |       | 402/341-7570 |      |       |
| NE | OMAHA          |              |          |       | 402/341-7733 | B/V  | 120   |
| NC | CHARLOTTE      | 704/376-2545 | FX B     |       | 704/332-3131 |      |       |
| NC | CHARLOTTE      | 704/376-2544 | FX B212A | 120   | 704/374-0839 | 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         |              |          |       | 919/549-8139 | B/V  | 120   |
| NC | GREENSBORO     | 919/379-0034 | FX B     |       |              |      |       |
| NC | GREENSBORO     | 919/275-8231 | FX B212A | 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  | 919/725-1414 | B        |       | 919/761-1957 |      |       |
| NC | WINSTON-SALEM  | 919/725-9252 | B212A    | 120   | 919/725-2126 |      |       |
| NH | CONCORD        |              |          |       | 603/224-8110 |      |       |
| NH | CONCORD        |              |          |       | 603/224-1024 | B/V  | 120   |
| NH | MANCHESTER     | 603/669-0493 | FX B     |       |              |      |       |
| NH | NASHUA         | 603/889-8618 | FX B     |       |              |      |       |
| 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 | JEPSEY CITY    |              |          |       | 201/623-0469 | B/V  | 120   |
| NJ | LYNDHURST      | 201/460-0100 | B        |       |              |      |       |
| NJ | LYNDHURST      | 201/460-0180 | B212A    | 120   |              |      |       |
| NJ | MARLTON        |              |          |       | 609/983-9650 |      |       |
| NJ | MARLTON        |              |          |       | 609/983-8351 | B/V  | 120   |
| NJ | MOORESTOWN     | 609/235-3761 | FX B     |       |              |      |       |
| 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 | B/V  | 120   |
| NJ | PATERSON       |              |          |       | 201/742-0858 |      |       |
| NJ | PATERSON       |              |          |       | 201/278-5960 | B/V  | 120   |
| NJ | PISCATAWAY     | 201/981-1900 | B        |       |              |      |       |
| NJ | PRINCETON      | 609/452-8970 |          |       |              |      |       |
| NJ | PRINCETON      | 609/452-8560 | B212A    | 120   |              |      |       |
| NJ | TRENTON        |              |          |       | 609/392-6101 |      |       |

| ST | CITY           | TYMNET       | TYPE          | SPEED | TELENET      | TYPE | SPEED |
|----|----------------|--------------|---------------|-------|--------------|------|-------|
| 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 | E             |       |              |      |       |
| NM | ALBUQUERQUE    |              |               |       | 505/243-7701 |      |       |
| NM | ALBUQUERQUE    | 505/842-6036 | B212A         | 120   | 505/243-4479 | B/V  | 120   |
| NV | BOULDER CITY   | 702/293-0300 | B             |       |              |      |       |
| NV | CARSON CITY    | 702/882-7810 | B             |       |              |      |       |
| NV | CARSON CITY    | 702/883-6546 | B212A         | 120   |              |      |       |
| NV | LAS VEGAS      | 702/293-0300 | FX B          |       | 702/733-2158 |      |       |
| NV | LAS VEGAS      |              |               |       | 702/737-6861 | B/V  | 120   |
| NV | RENO           | 702/882-7810 | B             |       |              |      |       |
| NV | RENO           | 702/883-6546 | B212A         | 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 | BUFFALO        | 716/856-1400 | E             |       | 716/847-0600 |      |       |
| NY | BUFFALO        | 716/847-0500 | B212A         | 120   | 716/847-1440 | B/V  | 120   |
| NY | CORNING        | 607/962-5071 | B             |       |              |      |       |
| NY | CCRNING        | 607/936-4151 | B212A         | 120   |              |      |       |
| NY | DEER PARK      |              |               |       | 516/586-7810 |      |       |
| NY | ELMIRA         | 607/737-9010 | B212A         | 120   |              |      |       |
| NY | HEMPSTEAD      | 516/794-3390 | FX B          |       | 516/292-0320 |      |       |
| NY | HEMPSTEAD      |              |               |       | 516/481-6012 | B/V  | 120   |
| NY | HUNTINGTON, LI | 516/673-5780 | FX B          |       |              |      |       |
| NY | NEW YORK       | 212/344-7445 | B             |       | 212/279-1000 |      |       |
| NY | NEW YORK       | 212/683-0131 | B             |       |              |      |       |
| NY | NEW YORK       | 212/350-9100 | B             |       | 212/736-0099 |      |       |
| NY | NEW YORK       | 212/551-9322 | B             |       |              |      |       |
| NY | NEW YORK       | 212/668-0130 | B212A         | 120   | 212/947-9600 | B/V  | 120   |
| NY | NEW YORK       | 212/532-8101 | B212A         | 120   |              |      |       |
| NY | NEW YORK       | 212/689-8910 | V3405         | 120   |              |      |       |
| NY | NEW YORK       | 212/684-6363 | V3405         | 120   |              |      |       |
| NY | NEW YORK       | 212/344-3392 | (30 CPS ONLY) |       |              |      |       |
| NY | NIAGARA FALLS  | 716/285-6691 | FX B          |       |              |      |       |
| NY | NIAGARA FALLS  | 716/285-3114 | FX B212A      | 120   |              |      |       |
| NY | POUGHKEEPSIE   |              |               |       | 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 | SCHENECTADY    |              |               |       | 518/445-9111 |      |       |
| NY | SCHENECTADY    | 315/437-1117 | B212A         | 120   | 518/465-8444 | B/V  | 120   |
| NY | SYRACUSE       | 315/437-7111 | B             |       | 315/472-5503 |      |       |
| NY | SYRACUSE       |              |               |       | 315/472-5583 | B/V  | 120   |
| NY | TROY           |              |               |       | 518/445-9111 |      |       |
| NY | TROY           |              |               |       | 518/465-8444 | B/V  | 120   |
| NY | WHITE PLAINS   | 914/694-9361 | B             |       | 914/682-8777 |      |       |
| NY | WHITE PLAINS   | 914/694-8960 | B212A         | 120   | 914/946-3176 | B/V  | 120   |
| OH | AKRON          | 216/535-1861 | B             |       | 216/762-9791 |      |       |
| 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 | CLEVELAND      | 216/781-7050 | B             |       | 216/241-0940 |      |       |
| OH | CLEVELAND      | 216/861-5383 | B212A         | 120   | 216/696-4225 | B/V  | 120   |
| OH | COLUMBUS       | 614/421-7270 | B             |       | 614/463-1400 |      |       |
| OH | COLUMBUS       | 614/421-1650 | B212A         | 120   | 614/461-1853 | B/V  | 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 | SPRINGFIELD    |              |               |       | 513/323-8433 |      |       |
| OH | TOLEDO         | 419/243-3144 | FX B          |       | 419/243-8871 |      |       |
| OH | TOLEDO         | 419/255-2946 | FX B212A      | 120   |              |      |       |
| OH | YOUNGSTOWN     |              |               |       | 216/743-2296 |      |       |
| OH | YOUNGSTOWN     | 216/744-5326 | B212A         | 120   |              |      |       |
| OK | BARTLESVILLE   |              |               |       | 918/336-0020 |      |       |
| OK | BETHANY        | 405/947-0561 | B             |       | 405/232-4550 |      |       |
| OK | BETHANY        | 405/949-0125 | B212A         | 120   | 405/232-4546 | B/V  | 120   |
| OK | NORMAN         | 405/947-0561 | B             |       | 405/232-4550 |      |       |
| OK | NORMAN         | 405/949-0125 | B212A         | 120   | 405/232-4546 | B/V  | 120   |
| OK | OKLAHOMA CITY  | 405/947-0561 | B             |       | 405/232-4550 |      |       |
| OK | OKLAHOMA CITY  | 405/949-0125 | B212A         | 120   | 405/232-4546 | B/V  | 120   |
| OK | STILLWATER     |              |               |       | 405/624-1112 |      |       |

| ST | CITY           | TYRNET       | TYPE     | SPEED | TELENET      | TYPE | SPEED |
|----|----------------|--------------|----------|-------|--------------|------|-------|
| OK | TULSA          | 918/663-2220 | B        |       | 918/504-3215 |      |       |
| OK | TULSA          | 918/665-2750 | B212A    | 120   | 918/504-3247 | B/V  | 120   |
| OR | PORTLAND       | 503/231-4050 | B        |       | 503/243-2000 |      |       |
| OR | PORTLAND       | 503/231-4077 | B212A    | 120   | 503/243-2015 | B/V  | 120   |
| PA | ALLENTOWN      | 215/433-6131 | FX B     |       | 215/435-0260 |      |       |
| PA | ALLENTOWN      | 215/432-5926 | B212A    | 120   | 215/425-3330 | B/V  | 120   |
| PA | ERIE           |              |          |       | 014/453-7161 |      |       |
| PA | ERIE           |              |          |       | 014/453-6059 | B/V  | 120   |
| PA | HARRISBURG     | 717/236-1190 | FX B     |       | 717/236-3202 |      |       |
| PA | HARRISBURG     |              |          |       | 717/236-6002 | B/V  | 120   |
| PA | JOHNSTOWN      |              |          |       | 014/535-7566 |      |       |
| PA | JOHNSTOWN      |              |          |       | 014/035-0541 | B/V  | 120   |
| PA | PENN HILLS     |              |          |       | 412/200-9950 |      |       |
| PA | PENN HILLS     |              |          |       | 412/200-9974 | B/V  | 120   |
| PA | PHILADELPHIA   | 215/561-6120 | B        |       | 215/574-0620 |      |       |
| PA | PHILADELPHIA   | 215/567-1301 | B212A    | 120   | 215/574-9462 | B/V  | 120   |
| PA | PITTSBURGH     | 412/765-1320 | B        |       | 412/200-9950 |      |       |
| PA | PITTSBURGH     | 412/261-4151 | B212A    | 120   | 412/200-9974 | B/V  | 120   |
| 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           | 717/846-4002 | FX B     |       |              |      |       |
| RI | PROVIDENCE     | 401/274-5703 | FX B     |       | 401/272-9290 |      |       |
| RI | PROVIDENCE     | 401/031-5566 | B212A    | 120   | 401/751-7912 | B/V  | 120   |
| RI | WARWICK        | 401/274-5703 | FX B     |       | 401/272-9290 |      |       |
| RI | WARWICK        | 401/031-5566 | B212A    | 120   | 401/751-7912 | B/V  | 120   |
| SC | COLUMBIA       | 803/252-0040 | FX B     |       | 803/254-1100 |      |       |
| SC | COLUMBIA       |              |          |       | 803/254-0695 | B/V  | 120   |
| SC | GREENVILLE     | 803/271-2410 | FX B     |       | 803/233-3400 |      |       |
| SC | GREENVILLE     |              |          |       | 803/233-3400 | B/V  | 120   |
| SC | SPARTANBURG    |              |          |       | 803/503-5421 |      |       |
| SD | PIERRE         |              |          |       | 605/224-6100 |      |       |
| TN | CHATTANOOGA    | 615/756-5056 | B        |       | 615/756-5323 |      |       |
| TN | CHATTANOOGA    | 615/756-0561 | B212A    | 120   | 615/756-1161 | B/V  | 120   |
| TN | KNOXVILLE      | 615/637-3110 | FX B     |       | 615/523-5500 |      |       |
| TN | KNOXVILLE      | 615/523-7450 | FX B212A | 120   |              |      |       |
| TN | MEMPHIS        | 901/529-0170 | B        |       | 901/525-2563 |      |       |
| TN | MEMPHIS        | 901/520-0103 | B212A    | 120   | 901/521-0215 | B/V  | 120   |
| TN | NASHVILLE      | 615/367-9302 | B        |       | 615/244-0310 |      |       |
| TN | NASHVILLE      |              |          |       | 615/244-5099 | B/V  | 120   |
| TN | NASHVILLE      | 615/361-7566 | B212A    | 120   |              |      |       |
| TX | AUSTIN         | 512/444-3200 | B        |       | 512/926-4360 |      |       |
| TX | AUSTIN         | 512/444-5000 | B212A    | 120   | 512/920-3560 | B/V  | 120   |
| TX | BAYTOWN        | 713/427-1123 | FX B     |       |              |      |       |
| TX | BEAUMONT       | 713/032-2509 | FX B     |       |              |      |       |
| TX | CORPUS CHRISTI | 512/002-3641 | FX B     |       |              |      |       |
| TX | DALLAS         | 214/630-0000 | B        |       | 214/740-0127 |      |       |
| TX | DALLAS         | 214/600-1444 | B212A    | 120   | 214/740-6371 | B/V  | 120   |
| TX | EL PASO        | 915/544-9590 | B        |       |              |      |       |
| TX | EL PASO        | 915/532-1936 | B212A    | 120   |              |      |       |
| TX | FORT WORTH     | 214/263-4501 | FX B     |       | 017/336-7791 |      |       |
| TX | FORT WORTH     | 214/263-0270 | B212A    | 120   | 017/332-4307 | B/V  | 120   |
| TX | HOUSTON        | 713/705-4411 | B        |       | 713/224-3300 |      |       |
| TX | HOUSTON        | 713/977-4000 | B        |       |              |      |       |
| TX | HOUSTON        | 713/700-7390 | B        |       |              |      |       |
| TX | HOUSTON        | 713/700-7496 | V3405    | 120   |              |      |       |
| TX | HOUSTON        | 713/977-7671 | B212A    | 120   | 713/225-9359 | B/V  | 120   |
| TX | LACKLAND       |              |          |       | 512/227-7704 |      |       |
| TX | LACKLAND       |              |          |       | 512/227-0102 | B/V  | 120   |
| TX | LONGVIEW       | 214/750-1756 | FX B     |       |              |      |       |
| TX | LUBBOCK        | 806/762-0136 | FX B     |       |              |      |       |
| TX | MIDLAND        | 915/603-5645 | B        |       |              |      |       |
| TX | MIDLAND        | 915/603-9033 | B212A    | 120   |              |      |       |
| TX | ODESSA         | 915/563-3745 | FX B     |       |              |      |       |
| TX | SAN ANGELO     |              |          |       | 915/944-9670 |      |       |
| TX | SAN ANGELO     |              |          |       | 915/944-0502 | B/V  | 120   |
| TX | SAN ANTONIO    | 512/696-4002 | B        |       | 512/227-7704 |      |       |
| TX | SAN ANTONIO    | 512/699-9627 | B212A    | 120   | 512/227-0102 | B/V  | 120   |
| UT | SALT LAKE CITY | 801/302-0972 | B        |       | 001/364-2644 |      |       |
| UT | SALT LAKE CITY | 801/502-6060 | B212A    | 120   |              |      |       |
| VA | CHESAPEAKE     |              |          |       | 004/625-0291 |      |       |
| VA | CHESAPEAKE     |              |          |       | 004/625-1106 | B/V  | 120   |
| VA | HERNDON        |              |          |       | 703/435-3333 |      |       |
| VA | NEWPORT NEWS   | 804/596-5754 | FX B     |       |              |      |       |
| VA | NORFOLK        | 804/622-0435 | FX B     |       | 004/625-0291 |      |       |

| ST | CITY           | TVMNET       | TYPE     | SPEED | TELENET      | TYPE | SPEED |
|----|----------------|--------------|----------|-------|--------------|------|-------|
| VA | NORFOLK        | 804/625-8301 | B212A    | 120   | 804/625-1186 | B/V  | 120   |
| VA | PORTSMOUTH     |              |          |       | 804/625-8291 |      |       |
| VA | PORTSMOUTH     |              |          |       | 804/625-1186 | B/V  | 120   |
| VA | RICHMOND       | 804/649-3050 | FX B     |       | 804/358-1941 |      |       |
| VA | VIRGINIA BEACH |              |          |       | 804/625-8291 |      |       |
| VA | VIRGINIA BEACH |              |          |       | 804/525-1186 | B/V  | 120   |
| VT | BURLINGTON     | 802/864-0054 | FX B212A | 120   |              |      |       |
| VT | MONTPELIER     |              |          |       | 802/229-4966 |      |       |
| WA | AUBURN         |              |          |       | 206/939-8200 |      |       |
| WA | BELLEVUE       | 206/625-9937 | B212A    | 120   | 206/447-9012 |      |       |
| WA | BELLEVUE       | 206/625-9900 | B        |       | 206/447-9012 |      |       |
| WA | ENUMCLAW       | 206/825-6909 | FX B     |       |              |      |       |
| WA | LONGVIEW       |              |          |       | 206/577-5835 |      |       |
| WA | OLYMPIA        | 206/943-4190 | FX B     |       |              |      |       |
| WA | RICHLAND       | 509/375-1975 | B        |       |              |      |       |
| WA | RICHLAND       | 509/375-3367 | B212A    | 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        |              |          |       | 509/455-7601 |      |       |
| WA | TACOMA         | 206/952-6800 | FX B     |       |              |      |       |
| WA | SPOKANE        | 509/838-8226 | B212A    | 120   | 509/455-4071 | B/V  | 120   |
| WI | APPLETON       | 414/734-9940 | FX B     |       |              |      |       |
| WI | EAU CLAIRE     | 715/834-7863 |          |       | 715/835-4641 |      |       |
| WI | GREEN BAY      | 414/468-6808 | B212A    | 120   |              |      |       |
| WI | MADISON        | 608/221-4211 | B        |       | 608/251-5904 |      |       |
| WI | MADISON        |              |          |       | 608/257-5010 | B/V  | 120   |
| WI | MADISON        | 608/221-0891 | B212A    | 120   |              |      |       |
| WI | MILWAUKEE      | 414/257-3482 | B        |       | 414/271-2560 |      |       |
| WI | MILWAUKEE      | 414/257-1703 | B212A    | 120   | 414/271-3914 | B/V  | 120   |
| WI | NEENAH         | 414/722-5580 | FX V3405 | 120   |              |      |       |
| WI | OSHKOSH        | 414/235-4594 | FX B     |       |              |      |       |
| WV | CHARLESTON     | 304/345-2908 | FX B     |       | 304/345-6450 |      |       |
| WV | CHARLESTON     | 304/522-6261 | FX B     |       | 304/345-6471 | B/V  | 120   |
| WY | CHEYENNE       |              |          |       | 307/778-2721 |      |       |





# MEMORANDUM

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
NATIONAL INSTITUTES OF HEALTH  
NATIONAL LIBRARY OF MEDICINE

DATE: 1 November 1980

TO : Indexers

FROM : Senior Technical Adviser

SUBJECT: TECHNICAL MEMORANDUM 22: 1981 Annotations

Here are annotations and corrections to annotations which arrived too late for publication. Please make the changes to your ANNOTATED MeSH and follow the instructions immediately.

In the presentation below enough room has been allowed for you to cut and paste substitutable instructions. The changes will be made officially, naturally, in the 1982 MeSH.

ANGINA PECTORIS, VARIANT - add

coronary vasospasm goes here

ANIONS - add this note reproduced from under CATIONS

GEN or unspecified; avoid as too general; prefer specifics; do not use /analog  
/anonym /detc: /physiol; use remaining permissible qualify discreetly; few apply

AWARDS AND PRIZES - add

awards & prizes in field of medicine; do not coord with MEDICINE but coord with specific med specialty or other field (IM)

BLASTOCYST - /growth is not allowed with Category A16.  
Delete " & /growth "



**BLOOD PRESERVATION - add**

preserv of whole blood or specific cellular  
elements (coord IM with specific cell (IM) )

**CHOLESTASIS, INTRAHEPATIC - add**

also called hepatocellular jaundice & medical  
jaundice

**CORONARY DISEASE - add**

coronary vasospasm: index under ANGINA  
PECTORIS, VARIANT

**CORONARY VESSELS - add**

coronary vasospasm: index under ANGINA  
PECTORIS, VARIANT

**ENTEROTOXINS**

coord IM with specific bacterium  
(IM or NIM)

**FOOD, FORMULATED - add to subheadings permitted**

/econ

**FOOD, FORTIFIED - add to subheadings permitted**

/econ

**HEMATOPOIESIS - add**

ERYTHROPOIESIS is available; leukopoiesis:  
coord IM with LEUKOCYTES (IM)



**HEMODYNAMICS - add**

IM systemic hemodynamics, NIM regional hemodynamics

**HYPERSENSITIVITY**

contact hypersensitivity = **HYPERSENSITIVITY, DELAYED**

**HYPERSENSITIVITY, DELAYED**

contact hypersensitivity goes here

**INFANT MORTALITY**

perinatal mortality goes here but consider also **PETAL DEATH**

**INTRAUTERINE DEVICES - /psychol is not allowed with Category E7. Delete /psychol from permitted subheadings.**

**KERATOSIS - add**

oral keratosis = **LEUKOPLAKIA, ORAL**

**KIDNEY - a MeSH error resulted in an unauthorized wrong annotation. Substitute this annotation reproduced from the 1980 MeSH:**

**KIDNEY**

A5 810 453 ;

/urg consider NEPHRECTOMY; inflammation - NEPHRITIS; consider terms under REN- & NEPHR- CATALOG form qualif - NEPHROLOGY /form

/transplantation was KIDNEY TRANSPLANTATION 1963-65

**LACTATION - add**

exper induced lactation unrelated to pregn (i.e., in non-pregn animals) goes here but do not check **PREGNANCY**



**LEUKOPLAKIA, ORAL - add**

oral keratosis goes here

**NEOPLASMS, MULTIPLE PRIMARY - add**

do not use /compl with specific multiple neopl terms to show multiplicity

**NEUROFIBRILS - add**

neurofibrillary or neurofibrillatory tangles goes here

**NEURONS - add**

neurofibrillary or neurofibrillatory tangles goes under **NEUROFIBRILS**

**PREGNANCY IN DIABETES - add**

refers to **DIABETES MELLITUS**, not **DIABETES INSIPIDUS**

**PSYCHIATRY - /legis not allowed with Categories F and G. Delete reference to " /legislation & jurisprudence permitted "**

**RADIOISOTOPES - in " not with /pharm: Manual 28.99 " change to 25.99**

**SALIVARY GLAND NEOPLASMS - note the XU. Delete " or SUBMANDIBULAR GLAND (IM) "**





**SCILLARENIN** - the term **SCILLAREN** was see under **SQUILL** 1963-75, was see under **CARDIAC GLYCO-SIDES** 1976-80. Since it is no longer in the system, either delete " do not confuse with **SCILLAREN** " or change **SCILLAREN** to **scillaren**.

**SKIN** - a MeSH error resulted in an unauthorized wrong annotation. Substitute this annotation reproduced from the 1980 MeSH:

**SKIN**

A1835+

/drug eff consider also DERMATOLOGIC AGENTS; /transpl: consider also SURGICAL FLAPS but see note there; inflammation = DERMATITIS & its specifics; dryness of skin index under SKIN DISEASES & do not interpret as XERODERMA see ICHTHYOSIS without clues from text; consider also terms under CUTAN- & DERM or DERMAT- CATALOG: form *qualif* = DERMATOLOGY /form. do not use /pop who ( = DERMATOLOGY /pop who)

/transplantation was SKIN TRANSPLANTATION 1963-65

**SKIN APPENDAGE DISEASES** - change NIM: coord to NIM coord

**TECHNOLOGY ASSESSMENT, BIOMEDICAL** - /instrum is not allowed with Category N. Delete /instrum from permitted subheadings.

**TECHNOLOGY, HIGH COST** - /instrum is not allowed with Category N. Delete /instrum from permitted subheadings.

**THERMOGRAPHY** - add

in diag coord IM with with disease /diag, not /radiogr

