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Internet Grateful Med

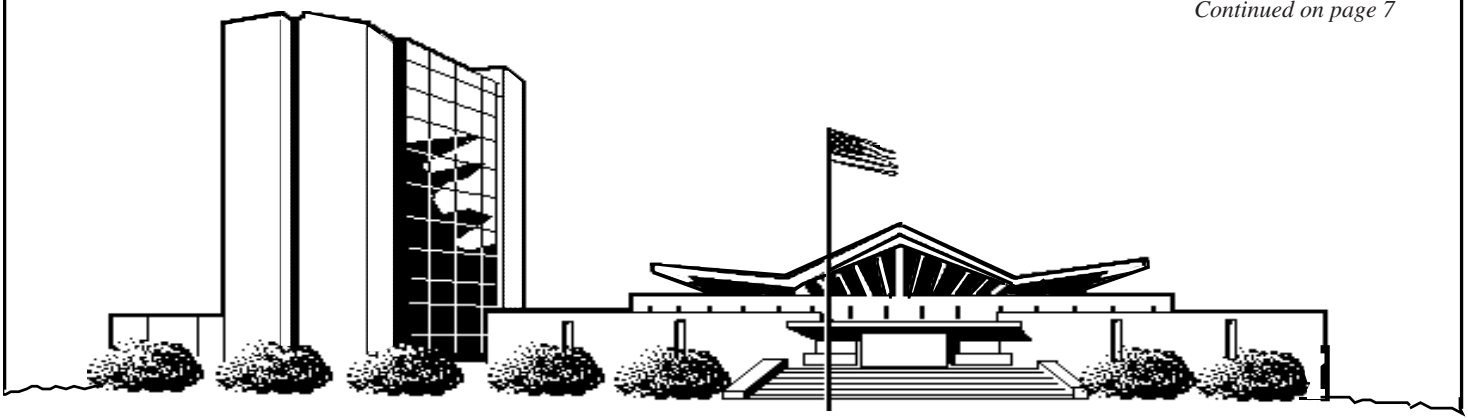
World-Wide Web Access to MEDLINE

The National Library of Medicine (NLM) is pleased to announce a new addition to the Grateful Med family of user-friendly search software. Internet Grateful Med (IGM) offers assisted searching of the world's biomedical literature over the World-Wide Web. The Internet Grateful Med user can create, submit and refine a search in MEDLINE by pointing a Web browser (Netscape Navigator 2.0 or higher recommended) at the World-Wide Web URL (Uniform Resource Locator, the World-Wide Web address) for Internet Grateful Med. Citations can be retrieved in short or long form with abstracts and MeSH headings. Retrieval can be printed, saved to a local disk or e-mailed to a colleague. Hard copy of articles can be ordered through Loansome Doc. The initial version of Internet Grateful Med searches only MEDLINE and its Backfiles. It also offers links to NLM's Online Images from the History of Medicine and to NLM's HSTAT system for access to Clinical Practice Guidelines supported by the Agency for Health Care Policy and Research. Searching in additional NLM databases will be available later this year.

Search Capabilities

The Internet Grateful Med query screen allows searching by subject, author name or by Text Words in the title. Retrieval can be limited by language, publication type, study group,

Continued on page 7



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National Library of Medicine

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The NLM Technical Bulletin is an administrative document sent to formal members of NLM's MEDLARS Online Network.

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MEDLARS® DATABASE	TOTAL RECORDS	DATES COVERED	DATE UPDATED	UPDATE TAG
ELHILL® COMPUTER				
AIDSDRUGS	242		16 MAR 96	9602(EM)
AIDSLINE®*	123,787	JAN 80-MAY 95	30 MAR 96	9605(EM)
AIDSTRIALS	712		26 MAR 96	9603(EM)
AVLINE®	29,901	THRU MAR 96	26 MAR 96	960328(DA)
BIOETHICSLINE®	48,299	JAN 73-MAR 96	27 JAN 96	9602(EM)
BIOTECHSEEK	Removed from MEDLARS		03 JUL 95	
CANCERLIT®	1,180,785	JAN 63-MAR 96	09 MAR 96	9603(EM)
CATLINE®	763,400	THRU MAR 96	29 MAR 96	960328(DA)
CHEMID	287,404		20 JAN 96	
CHEMLINE®	1,476,234		09 MAR 95	9602(EM)
DENTALPROJ™	896		29 JUL 95	
DIRLINE®	17,121		02 MAR 96	
DOCUSER®	14,433		30 MAR 96	
HEALTH	851,588	JAN 75-OCT 95	28 OCT 95	9512(EM)
HISTLINE®	155,649	JAN 70-MAR 96	18 MAR 96	9603(EM)
HSRPROJ	2,665		26 SEP 95	9506(EM)
HSTAR**	1,677,782	1985-DEC 95	15 NOV 95	9512(EM)
MEDLINE®**	1,118,219	JAN 93-MAY 96	30 MAR 96	9605(EM)
MED90	1,129,182	JAN 90-DEC 92	09 DEC 95	
MED85	1,688,654	JAN 85-DEC 89	09 DEC 95	
MED80	1,388,916	JAN 80-DEC 84	09 DEC 95	
MED75	1,279,086	JAN 75-DEC 79	09 DEC 95	
MED66	1,986,477	JAN 66-DEC 74	09 DEC 95	
MESH VOCABULARY FILE®	106,231	1996	23 MAR 96	
NAME AUTHORITY FILE®	Removed from MEDLARS		08 APR 95	
PDQ®		THRU APR 96	01 APR 96	
POPLINE®	230,625	1970-MAR 96	09 MAR 96	9603(EM)
SDILINE®	35,923	MAY 96	24 FEB 96	9604(EM)
SERLINE®	87,012	THRU FEB 96		
SPACELINE	96,607	THRU MAR 96	29 MAR 96	9605(EM)
TOXLINE®	1,491,368	1981-1996	01 FEB 96	9602(EM)
TOXLINE65	692,918	PRE 1965-1980	25 AUG 95	
TOXLIT®	1,527,973	1981-1996	01 FEB 96	9602(EM)
TOXLIT65	586,405	1965-1980	01 SEP 87	

* AIDSLINE: PART 5 OF 6 FOR 9605 (EM) WEEKLY UPDATE
** MEDLINE: PART 5 OF 5 FOR 9605 (EM) WEEKLY UPDATE

TOXNET® COMPUTER			
CCRIS	6,996	04 MAR 96	
DART™	27,863	26 MAR 96	
EMIC	12,794	04 MAR 96	
EMICBACK	75,886	04 APR 94	
ETICBACK	49,591	04 APR 94	
GENE-TOX	2,987	17 AUG 95	
HSDB®	4,505	29 MAR 96	
IRIS	666	04 MAR 96	
RTECS®	132,701	12 FEB 95	
TRI87	80,404	01 AUG 95	
TRI88	87,638	01 AUG 95	
TRI89	87,500	31 JUL 95	
TRI90	86,995	31 JUL 95	
TRI91	85,135	01 AUG 95	
TRI92	82,684	31 JUL 95	
TRI93	80,379	31 JUL 95	
TRIFACTS	326	10 APR 92	

Editing and Data Entry Contract Dispute

[Editor's Note: The message below was posted to File ALERT on March 26, 1996. NLM is doing all that it can to ensure that as many articles continue to be indexed and entered into the MEDLINE database. Changes to the NEWS note will be made when the situation changes.]

On February 20, 1996, Lloyd D. Kendall, Vice President, General Graphics Services, of York, PA, protested the outcome of the National Library of Medicine's contract for editing and data entry of information into MEDLINE.

On February 26, 1996, the General Services Administration Board of Contract Appeals suspended work on the entry of new citations to the NLM family of databases. NLM has pursued legal relief from the suspension, citing the importance of the databases to the Nation's health. We have as yet received no such relief. NLM is now using all legal means to keep the databases up to date. Without contractor support, the task of keying an average of 1,700 new citations a day is daunting. All available NLM staff are being enlisted to help.

This message alerts you to the fact that the existing databases are not current. As of March 25, some 30,000 references to recently published journal articles are not included in the database. We are making every effort to address this emergency so as to minimize the effect on health care delivery and biomedical research.

Technical Notes

Extended Hours for MEDLARS Service Desk Resume

The MEDLARS Service Desk resumed extended hours of operation on March 25, 1996. The new hours are Monday to Friday 8:30 a.m. until 11:00 p.m. ET, and from 10:00 a.m. until 5:00 p.m. ET on Saturdays. The Service Desk is closed on Sundays and Federal holidays. The Service Desk phone number remains 800-638-8480.

1996 NLM Invitation and MLA Meeting Reminder

The theme of the 96th Annual Meeting of the Medical Library Association (MLA) is "The Information Frontier." This year MLA is being held at the convention center in Kansas City, MO. Attendees are invited to come to Island G in the exhibit hall to visit with NLM staff and see demonstrations of various NLM products and services. The NLM exhibit will focus on new NLM endeavors such as the Visible Man and Visible Woman, the Internet Grateful Med Web-based interface (see cover story), the NLM Home Page, the UMLS Knowledge Source Server, HealthSTAR, and SPACELINE, as well as other NLM products.

The NLM Online Users' Meeting will be a "Lunch and Learn" session on Sunday, June 2, from 12:30 p.m. until 1:15 p.m. in Room 1205 of the Convention Center. NLM staff will discuss plans for new MEDLARS databases, DOCLINE access, Internet Grateful Med, and other avenues NLM is exploring to expand and improve online services.

The NLM Update will be held on Monday, June 3, from 10:30 until 12:00 p.m. in the Music Room at the Convention Center. NLM senior staff will discuss major library activities.

NLM's Third Annual Fixed-Fee User Meeting will be Monday, June 3, from 4:00 until 6:00 p.m. This meeting provides an opportunity for current fixed-fee customers to learn about new products and services related to their fixed-fee agreements. In addition, information will be provided for those interested in obtaining a Fixed-Fee Access Agreement for their institution.

MEDLINE and Backfiles Database Postings in the Online MeSH VOCABULARY FILE

The updated MeSH VOCABULARY FILE postings data elements for MEDLINE and its Backfiles became available on January 31, 1996. The Postings data elements give the number of postings for each MeSH descriptor and subheading for citation data through the 9603 Entry Month (EM) update. Because the postings are not updated during the year, the numbers continue to reflect the counts as of January 30, 1996 for the closed Backfiles and through the 9603 (EM) data for the MEDLINE file. Actual MEDLINE postings, however, will increase because NLM adds citations weekly to MEDLINE. Counts are given for both *Index Medicus* (IM) postings (starred number) and total postings (unstarred number) for MeSH headings in the databases. For MeSH subheading records, only total counts are given.

Following are examples of MEDLINE records and Backfiles postings as they appear for FIBROMYALGIA (MH) or drug therapy (SH) in the MeSH file. MED, M90, M85, M80, M75 and M66 are short element names that represent

the file names for MEDLINE, MED90, MED85, MED80, MED75, and MED66. (For further explanation of the MeSH file and its record elements, type EXPLAIN MeSH online.

MH - Fibromyalgia
MED - 344
MED - *301
M90 - 252
M90 - *221
M85 - 249
M85 - *219
M80 - 80
M80 - *58
M75 - 79
M75 - *45
M66 - 176
M66 - *115

SH - drug therapy
MED - 79955
M90 - 86872
M85 - 126275
M80 - 103379
M75 - 87635
M66 - 144440

Search Hints for Online MeSH Vocabulary Files

- FILE MESH contains current (1996) MeSH vocabulary.
- FILE OLD contains 1995 MeSH vocabulary.
- FILE NEW contains the next year's MeSH vocabulary. (It is available from the Spring of each year until MEDLINE is available using the new MeSH in December. At that time FILE NEW disappears until the next Spring.)

In any MeSH file, to retrieve all the MeSH headings introduced for a given year, use the following strategy:

xx0101 (DX) and D (RY) where xx=the last two digits of the year, e.g., 960101

DX = date established
RY = record type

There are three possible RY values:
D = descriptor (MeSH heading)
C = chemical (supplementary chemical record)
Q = subheading also called qualifier

Note: In 1996, Publication Types (PTs) were added to FILE MESH for the first time. These PTs also have D in the RY field, so that in addition to retrieving MeSH headings, D (RY) will retrieve PTs. However, if you are not interested in seeing any of the new PTs, add 'AND NOT 2 (DC)' to your strategy because the PTs also have a DC (Descriptor Class) value of 2. For example:

USER:
960101 (dx) and d (ry) and not 2 (dc)

TOXNET Brief Guide Available

TOXicology Data NETwork: A Brief Guide to Searching its Files has been recently revised (October 1995). This handy pocket-sized booklet contains procedures for accessing TOXNET, basic principles of searching and printing, unit records for all the TOXNET files, and sample searches. Single copies are available at no charge by sending your request and a self-addressed mailing label to:

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

Several NLM Recurring Bibliographic Publications Discontinued

For many years, the National Library of Medicine (NLM) has engaged in collaborative efforts with outside organizations to produce bibliographic publications. NLM's role was to retrieve citations based upon an agreed search strategy and to have the Government Printing Office (GPO) produce camera-ready pages. The organizations were responsible for using the camera-ready copies for publication and distribution of the bibliographies/indexes. When NLM first offered this service in the 1970s, it was a way to disseminate information on a specific subject unavailable to users any other way.

As this is no longer the case, starting with issues containing 9601 Entry Month data, the following bibliographic publications will no longer be produced by the NLM: *Recurring Bibliography for Chiropractic*, *International Craniofacial-Cleft Palate Bibliography*, *The Multiple Sclerosis Research Reports, Ongoing Current Bibliography of Plastic and Reconstructive Surgery*, *Bibliography of Podiatric Medicine*, and *Current Citations on Strabismus, Amblyopia, and other Diseases of Ocular Motility*. Last year the NLM stopped production of the *Anesthesiology Bibliography*, *Oncho Update*, *Schisto Update*, *Physical Medicine/Sports Medicine*, and *Tracoma Update*.

The NLM will, however, continue to produce data for the following indexes, which are published and distributed by cooperating organizations: *Bibliography of Bioethics, The Hospital and Health Administration Index*, the *Index to Dental Literature,* the *International Nursing Index*, the *Bibliography of Acute Diarrhoeal Diseases,* and the *Quarterly Bibliography of Tropical Medicine*.

NLM Internet Address Directory/Electronic Publication Retrieval Information

In every issue of the *Technical Bulletin*, the directory of NLM Internet addresses may be found on the page facing the back cover. This directory is updated as needed to reflect any changed or new addresses. In addition, a helpful table of information for electronic retrieval of NLM publications entitled, "Retrieving NLM Publications in Electronic Format," is

found been added on the reverse side of the Internet address directory.

Publications Available from GPO

The following publications may now be ordered from the Government Printing Office (GPO):

The 1995 *Cumulated Index Medicus* (CIM), Volume 36, is a 17-volume cumulation of the citations appearing in the monthly issues of *Index Medicus* (IM) for 1995. CIM contains bibliographic citations from more than 3,000 journal titles. This year only the complete 17-volume set may be ordered. The order number and adjusted prices follow:

Cumulated Index Medicus
GPO Stock Number for Complete Set:
S/N 617-052-00310-4
Price: $423.00 (U.S.)
$528.75 (non-U.S.)

# # #

The 1996 monthly *Index Medicus, Abridged Index Medicus,* and *Medical Subject Headings* (the "Black & White MeSH"--which is included with the January issue of a subscription to *Index Medicus*, but may also be ordered individually) are available for order. The *List of Journals Indexed in Index Medicus* is available in both electronic format (see "Retrieving NLM Publications in Electronic Format" on page 33) and in print. Order numbers and price information for the printed products follow:

Index Medicus
GPO List ID: IM96
Price for subscription:
$384.00 (U.S.)
$480.00 (non-U.S.)
Abridged Index Medicus
GPO List ID: ABIM96
Price for subscription:
$55.00 (U.S.)
$68.75 (Non-U.S.)

Medical Subject Headings ("Black & White MeSH") if ordered separately
GPO List ID: IM96
Price: $50.00 (U.S.)
$62.50 (non-U.S.)

List of Journals Indexed in Index Medicus
GPO List ID: IM96
Price: $17.00 (U.S.)
$21.25 (non-U.S.)

To order publications from the Superintendent of Documents, U.S. Government Printing Office (GPO), you may use the order form in Appendix A of this issue of the *Technical Bulletin.* Orders should be sent to:

New Orders
Superintendent of Documents
P.O. Box 371954
Pittsburgh, PA 15250-7954

Individuals with a Deposit Account, VISA or MasterCard who wish to order publications by phone may call 202-783-3238. Individuals charging to a Deposit Account, VISA, MasterCard or using a Federal Government Purchase Order may FAX orders to 202-512-2233. Remittance or deposit account numbers should be sent with all mail orders and, unless otherwise specified, foreign orders should include an additional 25% of the domestic price to cover mailing. To avoid delays, send a separate order for each title requested, and include full title, price and GPO Stock Number (for individual publications) or GPO List ID (for subscriptions).

Hospital and Health Administration Index

The American Hospital Association (AHA) Resource Center announces the availability of the casebound cumulative 1995 issue (Volume 51) and the forthcoming first 1996 issue (Volume 52) of the *Hospital and Health Administration Index* (formerly named the *Hospital Literature Index*). In 1996 the *Index* will be produced from NLM's new HealthSTAR (Health Services, Technology, Administration, and Research) database formed by merging the HEALTH and HSTAR databases. Production of the first 1996 issue of the *Index* commences immediately upon the availability of HealthSTAR for access. The *Index* is the primary printed guide to literature on hospital and health services administration, financing, and regulation, including health policy and reform, integrated delivery networks, health planning, and health services research. The *Index* will be published as three issues, with the third issue an annual cumulation.

Single issues, including the casebound annual cumulation, will not be sold at a price less than the annual subscription rate. Order numbers and prices follow. For your convenience, two order forms are included as Appendixes B and C of this issue of the *Technical Bulletin*. One is for the 1995 casebound annual cumulation and the other is for the 1996 subscription to the *Index*.

Hospital and Health Administration Index

1995 (Casebound annual cumulation)
Item Number: 121510
Price: $255.00 (AHA member)
$375.00 (non-member)

1996 (Subscription)
Item Number: M0940
Price: $285.00 (AHA member)
$375.00 (non-member)

Billed orders should be sent to:

Hospital and Health Administration Index
S & S Computer Services, Inc. at Copley Place
434 West Downer Place
Aurora, IL 60506
Phone: 708-892-7222
Fax: 708-892-7466

Prepaid orders, with check or money order, should be made payable to and sent to:

American Hospital Publishing, Inc.
P.O. Box 92567
Chicago, IL 60675-2567

New Bioethics Scope Note Available

The National Reference Center for Bioethics Literature at Georgetown University's Kennedy Institute of Ethics has recently published *Organ Transplant Allocation* Scope Note 29 of their Scope Note Series. The 13-page work provides background information and annotated references from varied sources including journal articles and books which document issues raised by the distribution of organs for transplant. The Scope Note contains annotated citations to literature about procedures, allocation principles, retransplantation, rationing, and the needs of special populations. Scope Note 29, prepared by Pat Milmoe McCarrick, also appears in the *Kennedy Institute of Ethics Journal,* December 1995. The separate reprint version, with the complete list of titles in the series, is available for $5.00 prepaid from the Kennedy Institute. Add $3.00 each for airmail outside North America.

The Scope Note Series offers an overview to topics in biomedical ethics and provides immediate reference to facts, opinions, or legal precedents (if applicable). All sources cited in Scope Notes are included in the collection of the National Reference Center for Bioethics Literature, and may be obtained through its document delivery service (subject to copyright law). Updates to topics covered in the Scope Note Series may be obtained by searching the BIOETHICSLINE database or by calling the National Reference Center for BIOETHICS Literature.

The National Reference Center for Bioethics Literature also now offers a selected list of publications from the former U.S. Office of Technology Assessment (OTA). When the U.S. Congress closed the OTA in late 1995, the Library and Information Services of the Kennedy Institute of Ethics at Georgetown University were able to obtain multiple copies of certain OTA publications concerned with ethical and health policy issues. For a complete list of available titles along with costs (either $10.00 or $15.00, depending on length), or for questions related to either the OTA publications or the Scope Note Series, contact:

The National Reference Center for Bioethics Literature
Kennedy Institute of Ethics
Georgetown University
Washington, DC 20057-1065
Phone: 800-MED-ETHX or 202-687-6738
Fax: 202-687-6770
E-mail: medethx@gunet.georgetown.edu

Continued from page 1

age group or range of years. The user is offered guidance in adding subheadings to qualify a term and can require that a term be considered a major topic of citations retrieved. The subject search capability is linked to the Unified Medical Language System (UMLS) Metathesaurus. The click of a "Find Related" button on the query screen brings up a ranked list of related terms from the Metathesaurus which the user can include as subject terms in the search. The new 1996 version of the Metathesaurus, an amazing resource, includes the French, German, Spanish and Portuguese translations of MeSH and can map user-entered terms or phrases across 589,000 names for 253,000 concepts from 30 biomedical vocabularies, thesauri or classifications.

With the click of a button, the user's search is transmitted over the Internet to the Internet Grateful Med gateway server at NLM. This intelligent gateway system forwards the search to ELHILL or another retrieval system. A summary of results is then sent back for display by the user's Web browser. A user who wishes help refining a search can click on an unusual "Analyze Search" function in Internet Grateful Med to bring into play a "behind the scenes" expert search assistant capability. This function analyzes the terms used in the original search and consults 11 different knowledge sources to suggest alternate terms the user might choose to include in the search or to replace original terms with the goal of improving retrieval.

Release Date Information

Internet Grateful Med will be released on April 16, 1996; the URL is: http://igm.nlm.nih.gov/. A full length article on Internet Grateful Med will appear in a subsequent issue of the *Technical Bulletin*. Questions and comments about Internet Grateful Med may be addressed to access@nlm.nih.gov. ❑

--prepared by
Lawrence C. Kingsland III, Ph.D.
Computer Sciences Branch
Lister Hill National Center for Biomedical Communications

Grateful Med Update

Macintosh and PC/DOS Versions

The Grateful Med software for both the PC/DOS and Macintosh versions has been updated. It is expected that the PC 6.7 update will be shipped in April 1996 and the Mac 2.3 Version will be shipped in May 1996. The 1996 updates include:

- The 1996 Medical Subject Headings (MeSH) - this year's edition includes over 200 new terms as well as changes to existing subject headings.

- New search screens for the HSRProj, HSTAR (Mac Version), and SPACELINE databases.

- The HEALTH and HSTAR databases have been combined to form a new database, HealthSTAR. HSTAR and HEALTH screens are being retained but both will search the front file of the new combined HealthSTAR file. There will not be a separate input screen for HealthSTAR.

- Necessary updates to the communications capabilities of the Mac version to support additional modem types, e.g., fax modems.

- Changes to reflect the new date ranges for MEDLINE and Older Material -- MEDLINE now contains 1993 to present citations and MED90 contains 1990 - 1992 citations.

- TOXNET non-Internet access will also be provided by the FTS 2000 network. The FTS 2000 network provides toll-free access via an 800 number.

- The FTS 2000 network's login procedures in Grateful Med have been changed to follow the new login procedures as detailed in the July-August 1995 issue of the *Technical Bulletin*.

The Mac 2. 3 Version and PC 6.7 update will automatically be shipped to all registered users free of charge. The *User's Guide* is not included with the update disks.

Grateful Med for Windows

PC subscribers will also receive a reply card with their update package. This card must be returned to upgrade to Grateful Med for Windows when it is available. It is important to note that the first release of Grateful Med for Windows will only provide access to MEDLINE and its Backfiles and the Loansome Doc document ordering service.

For information on another new Grateful Med product, Internet Grateful Med, see the cover story of this issue. ❑

--prepared by Rhonda Allard
MEDLARS Management Section

AIDS Information Services

This past year, in addition to rebuilding the AIDSLINE database with 1996 MeSH vocabulary, the National Library of Medicine (NLM) AIDS Group built an AIDS gopher and an NLM AIDS home page on the World-Wide Web (WWW). These new Internet access points provide: forms to use when applying for access to the NLM databases, full text of the *NIH Guide to HIV/AIDS Information Services*, and full text of many HIV/AIDS-related newsletters. In addition, the NLM AIDS home page points to other AIDS-related home pages that have been developed with funding from the NLM. A workshop manual put together by Hahnemann University, in Philadelphia, PA, with funding from NLM is available from the NLM AIDS home page. It is rich with information about how to instruct users on all aspects of searching for HIV/AIDS information, from popular books and magazines to electronic searching through databases and the many HIV/AIDS bulletin board services.

To visit the gopher, gopher to: gopher.nlm.nih.gov. The URL for the NLM HIV/AIDS Resources home page is: http://sis.nlm.nih.gov/aidswww.htm

Please let us know what you think of our new Internet features. If there is anything you would like to see added, please send your e-mail suggestions to aids@aids.nlm.nih.gov or fax the MEDLARS AIDS coordinator at 301-496-0822.

AIDS Video

An AIDS information resources video titled "HIV/AIDS Information: Putting the Pieces Together" is available for purchase from Videofiles, 1011 Arlington Blvd., Suite T4, Arlington, VA 22209, 703-524-8334. The price is $13.95. The video is a result of the NLM's contract with Hahnemann University to develop a workshop on "HIV/AIDS Information" for the affected AIDS/HIV community. Topics covered include print, electronic, and institutional resources for obtaining information.

AIDSLINE Update

AIDSLINE was rebuilt with 1996 MeSH and made available on February 28, 1996. As of that date, the file contained 122,044 citations. The subsets that make up AIDSLINE, along with their subset identifiers, are listed in the table below:

MEDLINE	(SI) MED
CANCERLIT	(SI) ICDB
CATLINE	(SI) CAT
AVLINE	(SI) AV
Meeting abstracts from the Fifth through Tenth International Conference on AIDS	(SI) ICA##
Meeting abstracts from the 8th through 10th Symposium on Nonhuman Primate Models for AIDS	(SI) PRIM##
AIDS-related abstracts from the 1990-1994 annual meeting of the American Society for Microbiology	(SI) ASM#
Meeting abstracts from the 5th and 6th Australasian Society for HIV MEDICINE	(SI) ASHM#
Smaller meeting abstracts, newsletters and unique AIDS journal citations	(SI) AIDS
*HealthSTAR	(SI) AHA OR HTM OR HTX OR HTA
**BIOETHICSLINE	(SI) KIE

*The HealthSTAR database, which will combine the HEALTH and HSTAR files, is expected to be available online in April. The AIDS-related HealthSTAR citations will be added to AIDSLINE after that time.

**The BIOETHICS file is not currently available with 1996 MeSH vocabulary. AIDS-related non-journal citations will be pulled from BIOETHICS and added to AIDSLINE, after the file has been rebuilt.

AIDSLINE Subset Identifiers

Watch the online NEWS for announcements of the addition of HealthSTAR and BIOETHICS citations to AIDSLINE.

Searching by Subset Identifier (SI)

In AIDSLINE, to find citations from a particular subset, just search by the subset mnemonic qualified by SI. For example, to find 1995 citations to audiovisual resources, at the USER: prompt, enter: av (si) and 95 (yr). To retrieve only citations from the fifth Australasian Society for HIV Medicine enter: ASHM5 (si)

Search Strategy Changes

This year, the stored search MEDLARS.AIDS, used to pull AIDS-related citations from the ELHILL databases, was enhanced to include the new MeSH term HIV ENTEROPATHY. Also, Pre-explosions (PXs) were added for: ANTIVIRAL AGENTS, REVERSE TRANSCRIPTASE INHIBITORS, and ANTI-INFECTIVE AGENTS.

In previous years, these terms were EXPLODEd. However, this year with the new pharmacologic action pre-explosion feature, it was important to include the PX for these terms. The command DISPLAY MEDLARS.AIDS at any USER: prompt allows you to display the strategy online.

AIDSTRIALS Changes

To improve the display of AIDSTRIALS records a number of changes were made. The AIDSTRIALS database was modified at the end of March 1996 to reduce the number of different fields which print in the PRINT FULL and PRINT DETAILED formats.

1. Data from the following fields have been moved to the PROTOCOL DETAILS (PD) field, and the original fields removed from the database unit record:

VERSION NUMBER & DATE (VND)
DISEASE STUDIED (DIS)
OTHER PROTOCOL NUMBERS (OPNS)
STUDY DESIGN (STU)

This information is not Text Word (TW) searchable in the PROTOCOL DETAILS field.

The PD field displays with the PRT FU, PRT DL or PRINT INCLUDE PD commands.

2. Data from the following fields have been moved to the PATIENT INCLUSION CRITERIA (PIC) mnemonic field, and the original fields removed from the database unit record:

DISEASE STATUS (DST)
PATIENT AGE (PICA)
OTHER PATIENT INCLUSION CHARACTERISTICS (OPIC)

This information is not Text Word (TW) searchable in the PATIENT INCLUSION CRITERIA field.

The PIC field displays with the PRT FU, PRT DL or PRINT INCLUDE PIC commands.

3. Data from the SUBSTANCE ADMINISTRATION INFORMATION (SAI) field has been merged into the OTHER TREATMENT INFORMATION (OTI) field and the original SAI field removed from the database. The OTI field is not searchable.

4. The ELIGIBILITY (ELIG) field has been removed from the database.

5. The following fields remain in the database, but no longer print in any of the standard print formats:

TRADE NAME OF SUBSTANCE (TNM)
MANUFACTURERS (MANF)
MESH HEADING (MH)
CAS REGISTRY NUMBER (RN)
ENTRY MONTH (EM)

These fields remain searchable and they may be displayed using the PRT DETAILED command or by specifically requesting the field mnemonic with a PRINT command.

AIDSTRIALS and AIDSDRUGS Data

The records from the AIDSTRIALS and AIDSDRUGS files are available via ftp from the NLMPUBS server. The files are stored in the AIDS directory as trials.txt or drugs.txt. Please note that the AIDSTRIALS file on the NLMPUBS server includes only those trials from the database that are considered OPEN. Closed trials are not included and can only be found by searching in the AIDSTRIALS database online. ❑

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ChemID Regenerated

The regenerated ChemID database was made available on January 22, 1996. The new file contains 287,404 chemical records, reflecting the addition of close to 20,000 new records since its last regeneration. The growth of chemical information in the various MEDLARS files results in the growth of ChemID. The primary function of ChemID is to provide directory assistance to MEDLARS users for chemical searches. Thus, the records in ChemID provide chemical identification data as well as locators to 15 ELHILL and 16 TOXNET databases containing chemical information. Among them, the Health Services and Technology Assessment Research (HSTAR) on ELHILL and the four Toxic Chemical Release Inventory (TRI90, TRI91, TRI92, TRI93) databases on TOXNET are new with this regeneration. [Editor's note: When HSTAR is merged with HEALTH into the new HealthSTAR database, HSTAR will become a pointer to HealthSTAR.] ChemID also provides locators to DSL (Domestic Substances List of Canada), EINECS (European Inventory of Existing Commercial Chemical Substances), and TSCAINV (Toxic Substances Control Act Chemical Inventory). These three locators point to files residing outside of MEDLARS. The regeneration for ChemID involves rebuilding the file entirely with up-to-date data from all sources, MEDLARS as well as many outside files.

SUPERLIST

Most of the data and functions of ChemID closely parallel those of CHEMLINE, the other chemical directory file on ELHILL, with one important distinction -the presence of SUPERLIST data. SUPERLIST, a compilation of important lists maintained by Federal and State regulatory agencies as well as by selected scientific organizations, was added to ChemID several years ago. This year SUPERLIST has been expanded from 19 to a total of 30 lists and the number of records containing SUPERLIST data has increased to 11,946. Using the SUPERLIST capability, the name used by a particular list, all the chemicals on a list, or the presence of a chemical on one or more lists, can be determined.

Some highlights of SUPERLIST with the latest regeneration are the addition of some state and international lists. Also new with the regeneration is the addition of some status information in the Classification Code (CC) field from the following seven lists: IARC, NTPA, NTPT, RQ, S110, S302, and TLV. The acronyms and names of all 30 lists are shown in Table I.

CA65*	California List of Chemicals Known to Cause Cancer or Reproductive Effects
CAA1	Hazardous Air Pollutants
CAA2*	Ozone Depletion Chemicals List
CGB	DOT Coast Guard Bulk Hazardous Materials
CGN	DOT Coast Guard Noxious Liquid Substances
DEA	Drug Enforcement Administration Controlled Substances
DOT	DOT Hazardous Materials Table
FIFR	EPA Pesticide List
GRAS	Direct Food Substances Generally Recognized as Safe
IARC	International Agency for Research on Cancer List
IL*	The Toxic Substances List of Illinois Department of Labor
INER*	List of Pesticide Product Inert Ingredients
MA*	Massachusetts Substances List
MPOL*	Marine Pollutants List
MI*	Critical Materials Register of the State of Michigan
NJ*	New Jersey Hazardous Substances List
NJEH*	New Jersey Extraordinarily Hazardous Substances List
NTPA	NTP Carcinogens List
NTPT	NTP Technical Reports List
PA*	Pennsylvania Right to Know List
PAFA	List of Substances Added to Food in the U.S.
PEL	OSHA Toxic and Hazardous Substances
PELS*	The 1989 OSHA Toxic and Hazardous Substances List
REL	NIOSH Recommended Exposure Limits
RQ	CERCLA Hazardous Substances Table 302.4
S110	Superfund Amendments and Reauthorization Act of 1986
S302	Section 302 of the Superfund Amendments and Reauthorization Act of 1986 (SARA), Extremely Hazardous Substances
TLV	ACGIH Threshold Limit Value
TRI	Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 313, Toxic Chemical Release Inventory
WHMI	Ingredient Disclosure List of Canada

Key

*	List new to ChemID with the January 1996 regeneration
ACGIH	American Conference of Government Industrial Hygienists
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
NIOSH	National Institute of Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration

Table 1 - Acronyms and Names of Lists included in SUPERLIST

SUPERLIST Analysis

SARA-Related Lists
As a result of the Superfund Amendment and Reauthorization Act (SARA) of 1986, a number of health and safety relevant lists were issued by Federal and State Agencies. For example, to determine the SARA status of a substance, one could search for S110 (SARA 110), S302 (SARA 302), TRI (SARA 313) and RQ (CERCLA Hazardous Substances list) in the Classification Code (CC) field. All these lists contain substances that are subject to reporting to appropriate agencies under certain conditions. Again, the user may be interested in either the status of a chemical or the complete list.

State Lists
The Right-To-Know requirements of SARA also resulted in the development of lists by the states. Seven of these state lists from six states were added to SUPERLIST during the latest regeneration. The searchable mnemonics for these state lists are: CA65 (California), IL (Illinois), MA (Massachusetts), MI (Michigan), NJ and NJEH (New Jersey), and PA (Pennsylvania).

Marine and Transportation Lists
The Marine Pollutants List (MPOL) generated by the International Maritime Organization and adopted by the U.S. Department of Transportation is also a useful addition to the DOT Hazardous Materials Table (DOT) and the two DOT Coast Guard lists (CGB, CGN). To a user interested in transporting chemicals, a quick search will determine if that substance is regulated by one or more of the above groups.

Occupational Health-Related Lists
Several lists related to occupational health standards and guidelines, OSHA (PEL, PELS), NIOSH (REL) and ACGIH (TLV) are also part of SUPERLIST. The PELS list, (the OSHA Standards vacated as a result of a 1992 court ruling) is still shown because several states have adopted these standards. The Canadian Ingredient list (WHMI) has occupational relevance also. Chemicals on this list must be identified on Material Safety Data Sheets if they are included in products.

FDA and Pesticide-Related Lists
The Food and Drug Administrations lists, GRAS and PAFA, identify all substances added to foods in the U.S. including those recognized as safe. The Environmental Protection Agency's active ingredient pesticide (FIFR) and inert ingredients added to pesticides (INER) are two lists the user can search to determine if a substance is regulated or is of interest to EPA's Office of Pesticides.

Carcinogenicity-Related Lists
Finally, a user interested in chemical carcinogenicity can query the National Toxicology Program Annual Report List (NTPA) which lists carcinogens in the U.S. and the International Agency for Research on Cancer (IARC) at the World Health Organization in Geneva. For the first time since SUPERLIST was initiated, information on carcinogenicity is available in the Classification Code (CC) field. A user may want to identify carcinogens listed by NTPA and which have an OSHA Standard (PEL) and a NIOSH guideline (REL).

SUPERLIST is a handy tool that can be used to identify the status of a chemical at various organizations or to compare lists. And this information can be easily found without knowing the exact chemical name used by the list or even if the name is on a list. When you have located a chemical in the ChemID file, both the List Locator (LLO) field (indicating the presence of the chemical on various lists) and the Locator (LO) field (pointing to all the NLM databases containing information on the chemical) display automatically with the standard PRINT command, as well as with the more detailed PRINT commands.

Figure 1 shows a search for the pesticide ethylene dibromide (EDB) and the retrieved record printed in full. Bullets identify the SUPERLIST data and some basic data elements.

```
USER:
file chemid

PROG:
YOU ARE NOW CONNECTED TO THE CHEMID (NON-ROYALTY) FILE.


SS 1 /C?
USER:
edb                                          • Search for a name on SUPERLIST.

PROG:
SS (1) PSTG (1)

SS 2 /C?
USER:
prt fu

PROG:
```

Figure 1 - Searching by Chemical Synonym and Displaying a ChemID Record

```
1
RN  -  106-93-4                                                          • CAS Registry Number
ON  -  8003-07-4 (TSCAINV)                                               • Other CAS Registry Number
MF  -  C2-H4-Br2  [EINECS:HSDB:RTECS:TSCAINV]                            • Molecular Formula
N1  -  1,2-Dibromoethane [CCRIS:EINECS:HSDB:MESH:RTECS:TSCAINV]          • Systematic Name
N1  -  Ethane, 1,2-dibromo- (8CI)(9CI)  [RTECS:TSCAINV]
N1  -  Ethylene dibromide  [CCRIS]
NM  -  Ethylene dibromide  [HSDB:MESH]
NM  -  [LIST] Dibromoethane  [CAA1]
NM  -  [LIST] 1,2-Dibromoethane [IL:MPOL:NJ:NTPA:NTPT:PEL:PELS:S110:TLV:TRI]
NM  -  [LIST] EDB  [IL]                                                  • SUPERLIST Name (Illinois)
NM  -  [LIST] Ethane, 1,2-dibromo-  [PA:RQ]
NM  -  [LIST] Ethylene dibromide[CA65:CAA1:CGB:CGN:FIFR:IARC:IL:
       MA:MI:NJ:NTPA:PEL:PELS:REL:RQ:TLV:TRI:WHMI]
NM  -  [LIST] Ethylene dibromide [UN1605]  [Poison]  [DOT]
NM  -  [LIST] RCRA waste no. U067  [RQ]
NM  -  [LIST] UN1605  [DOT]
SY  -  Aadibroom  [HSDB]
SY  -  AI3-15349  [HSDB]
       .
       .
       .
SY  -  EDB  [HSDB:RTECS]                                                 • Synonym Field - Name Searched
       .
       .
       .
SY  -  Unifume  [HSDB:RTECS]
MH  -  Ethylene dibromide                                                • MeSH Heading
CC  -  Agricultural Chemical  [RTECS]
CC  -  Tumor data  [RTECS]
CC  -  Mutation data  [RTECS]
CC  -  Reproductive Effect  [RTECS]                                      • Classification Code
CC  -  Human Data  [RTECS]
CC  -  Skin / Eye Irritant  [RTECS]
CC  -  Insecticide  [RTECS]
CC  -  Nematocide  [RTECS]
CC  -  Fungicide, bactericide, wood preservative  [RTECS]
CC  -  [LIST] ATSDR Profile Priority List, rank :  46  [S110]             • New SUPERLIST Data
CC  -  [LIST] Overall Carcinogenic Evaluation: Group 2A [IARC]
CC  -  [LIST] Reasonably anticipated to be a carcinogen [NTPA]
CC  -  [LIST] Reportable Quantity (RQ) = 1 lb  [RQ]
CC  -  [LIST] Suspected human carcinogen  [TLV]
NO  -  1,2-Dibromoethane. An effective soil fumigant, insecticide, and nematocide. In humans, it causes   • Note Field
       severe burning of skin and irritation of the eyes and respiratory tract. Prolonged inhalation may cause
       liver necrosis. It is also used in gasoline. Members of this group have caused liver and lung cancers
       in rodents. According to the fourth annual report on carcinogens (ntp 85-002, 1985), 1,2-dibromoethane
       may reasonably be anticipated to be a carcinogen.  [MESH]
LLO -  CA65 ; CAA1 ; CGB ; CGN ; DOT ; FIFR ; IARC ; IL ; MA ; MI ; MPOL ; NJ ; NTPA ; NTPT ; PA ; PEL   • List Locators
       ; PELS ; REL ; RQ ; S110 ; TLV ; TRI ; WHMI
LO  -  CANCERLIT ; CCRIS ; DART ; DSL ; EINECS ;  EMIC  ;  EMICBACK  ;  ETICBACK  ;  GENETOX  ;        • File Locators
       HSDB  ;  HSTAR  ;  IRIS  ;  MEDLINE  ;  MED80  ;  MED85  ;  MED90  ;  MESH  ;  RTECS  ;  TOXLINE  ;
       TOXLINE65 ; TOXLIT ; TOXLIT65 ; TRIFACTS ; TRI87 ; TRI88 ; TRI89; TRI90 ; TRI91 ; TRI92 ; TRI93
       ; TSCAINV ; SUPERLIST
```

Figure 1 - Searching by Chemical Synonym and Displaying a ChemID Record cont.

SUPERLIST Data in Three Fields

SUPERLIST data appear in NM (Name of Substance(s)), CC (Classification Code), and LLO (List Locator) fields, as shown in Figure 1 above.

NM Field Display

SUPERLIST data in the NM field is not searchable; the display shows the name or synonym for a chemical that is used by a particular list. For example, the chemical name, edb, used to retrieve the record in Figure 1, is used only by the Toxic Substances List of the Illinois Department of Labor (IL). SUPERLIST names are preceded by [LIST] in the NM field. All 30 SUPERLIST sources have been updated to provide the latest name used by the particular source.

CC Field Contains New Carcinogenicity Information

The CC fields of the EDB record in Figure 1 show variously that:

- This substance is ranked 46th among the 275 substances on the profile priority list of the Agency for Toxic Substances and Disease Registry.
- With a Group 2A Overall Carcinogenic Evaluation, it is rated as a probable carcinogen to humans by the International Agency for Research on Cancer.
- It is anticipated to be a carcinogen by the National Toxicology Program.
- If a quantity equal to or over 1 lb is spilled, reporting to the National Response Center is triggered according to RQ (CERCLA Hazardous Substances Table 302.4) list information.
- It is a suspected human carcinogen by the American Industrial Hygiene Association.

All information in the CC field is searchable by individual words qualified by Classification Code (CC). For example to retrieve chemicals that are listed as insecticides with possible carcinogenic activity, at any USER: prompt enter:
(cc) all carcinogen: and insecticide

LLO Field - Searching by List Name

To see all substances on the IL (Toxic Substances of Illinois Department of Labor) list, enter the following search:

USER:
il (llo)

PROG:
SS (1) PSTG (932)

These 932 records represent substances regulated by the Illinois state list. If you wanted to see the chemicals from a particular list that also appear in a specific file, then a search statement combining the list retrieval obtained from the List Locator (LLO) field with the database mnemonic in the Locator (LO) field would yield them. For example, to find compounds from the Illinois list with summary data in the Hazardous Substances Data Bank (HSDB) enter as follows:

USER:
il (llo) and hsdb (lo)

For More Information on SUPERLIST

More detailed information on SUPERLIST in ChemID is available free of charge in a booklet. Please send your requests via e-mail, fax or mail to the addresses indicated in the next column.

Conclusion

The combination of a variety of chemical identification data and the pointers to data within the MEDLARS system, as well as to external regulations and resources make ChemID an excellent choice to users who are seeking data for a variety of chemical substances. The file is available at normal MEDLARS rates. The system used to generate the ChemID data has been totally revamped and re-written; and as experience allows, we plan to use this new system to update ChemID several times a year. We hope users will test new data on ChemID, and give feedback to NLM on features that they would like to see implemented. Please send your comments to:

National Library of Medicine
Specialized Information Services
8600 Rockville Pike
Bldg. 38A, Room 3N319
Bethesda, MD 20894
e-mail: tehip@teh.nlm.nih.gov
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Searching Chemicals and Pharmacologic Action MeSH Headings

PA PX Feature Added to SDILINE

Beginning with 9604 (EM), searchers may use the Pharmacologic Action (PA) Pre-Explosion (PX) feature in SDILINE. This change was implemented based on user feedback. The PA PX feature has been available in all other MeSH-indexed databases since December 1995.

Searching Pharmacologic Actions

Pharmacologic actions can be searched qualified by MH (MeSH Heading) or PX. If you don't qualify, the default is MH. The difference between the two (in SDILINE and in MEDLINE **beginning with 9601 Entry Month (EM)**) is as follows:

- Pharmacologic action (MH) retrieves only citations in which that pharmacologic action is discussed.

- Pharmacologic action (PX) retrieves all citations containing chemical headings listed under that pharmacologic action in the Table on p. I-154 of the 1996 *Trees* **whether or not** that pharmacologic action is discussed.

PA PX includes chemical headings listed under other pharmacologic action headings that are in its Category D tree structure. For example, ANTIBIOTICS (PX) retrieves citations containing all chemical headings listed under this term in the Table, **and** it retrieves citations containing all chemical headings listed in the Tables for the pharmacologic actions which are indented under the D20.85 tree for ANTIBIOTICS (partially shown at the top of this page):

ANTIBIOTICS	D20.85
ANTIBIOTICS, AMINOGLYCOSIDE	D20.85.60
ANTIBIOTICS, ANTIFUNGAL	D20.85.62
ANTIBIOTICS, ANTINEOPLASTIC	D20.85.75
ANTIBIOTICS, ANTHRACYCLINE	D20.85.75.105
ANTIBIOTICS, ANTITUBERCULAR	D20.85.89
ANTIBIOTICS, COMBINED	D20.85.92
.	
.	
.	

Antibiotics Tree - Partial Display

The complete D20.85 tree has another 17 pharmacologic actions listed underneath ANTIBIOTICS; it has been truncated above to save space. All of the chemical headings listed in the Tables for these PAs will be retrieved with the ANTIBIOTICS (PX) command.

Note: PA PX is the equivalent of EXPLODE "drug category" in the pre-1996 indexing system.

Frequently Asked Questions

Q: Now that chemical headings no longer appear in the functional trees, how can I find out which chemicals have similar pharmacologic actions? Also, how do I know which pharmacologic actions can be pre-EXPLODEd?
A: Although MeSH chemical headings were removed from the pharmacologic action trees in Category D, they **are** listed by their functional groups in "Pharmacologic Action Headings - 1996" starting on page I-154 of the 1996 *Medical Subject Headings - Tree Structures*. The same groupings can be retrieved in the online MESH file by searching the pharmacologic action field and limiting to MeSH heading records. For example:

ANTACIDS (PA) and D (RY)

retrieves the MeSH records for the five chemicals listed under ANTACIDS on page I-156 of the 1996 *Trees*, where (PA) is the Pharmacologic Action field, (RY) is the Record Type field, and D is the value for descriptor (MeSH heading) records. See the related technical note, Search Hints for MeSH Vocabulary File on page **5** of this issue. A concise, alphabetic list of all pharmacologic action pre-explosion names starts on page I-78 of the 1996 *Medical Subject Headings Annotated Alphabetic List*.

Q: What is the best way to search for *recent* articles about all chemicals that have a common pharmacologic action?
A: The new indexing policy of coordinating MeSH chemical headings with pharmacologic action headings for articles discussing the two together went into effect with 1996 indexing. To identify articles on these topics indexed after 9512 (EM), searchers may input the pharmacologic action alone as an (MH) or combined with a date. To retrieve those articles on chemicals sharing a pharmacological action where the pharmacological action is discussed, search as follows:

In SDILINE:
(MH) ANTICOAGULANTS

In other ELHILL databases:
(MH) ANTICOAGULANTS and greater than 951019 (DA)
or
(MH) ANTICOAGULANTS and 9601 (EM) **• or any EM after 9601**

Note: 951019 (DA) is the start date for the application of the new indexing rules for pharmacologic actions. This date corresponds with 9601 (EM).

The above search strategies also retrieve citations containing chemical headings listed in the Table under

ANTICOAGULANTS that discuss their anticoagulant actions.

To retrieve **recent** citations for articles about chemicals that share a common pharmacologic action, whether the PA is discussed or not, search the pharmacologic action using its pre-explosion (PX) as shown below:

In SDILINE:
ANTICOAGULANTS (PX)

In other ELHILL databases:
ANTICOAGULANTS (PX) and
greater than 951019 (DA)
or
ANTICOAGULANTS (PX) and
9601 (EM) • **or any EM after 9601**

Again, in terms of a specific chemical included in this PA's table, the above strategies would retrieve **all** citations for articles indexed with the 22 chemical headings listed in the Table under ANTICOAGULANTS whether or not their anticoagulant pharmacologic action is discussed.

Q: What is the best way to search for *recent* articles about a specific chemical and its pharmacologic action?
A: To identify records discussing specific chemicals with specific PAs, headings for the two must be searched together. For example,
(MH) ANTICOAGULANTS AND
WARFARIN
retrieves citations for articles discussing warfarin as an anticoagulant.

Q: What is the best way to identify *older* articles about chemicals that have a common pharmacologic action?
A: To retrieve citations indexed prior to 1996 with chemical headings that share a common pharmacologic action, whether the PA is discussed or not, use the pharmacologic action pre-explosion. For example,
(PX) ANTICOAGULANTS

Q: Since chemical headings are no longer shown in the functional trees will I retrieve only articles about chemical structures if I search a chemical heading?
A: Searching any MeSH chemical heading in MEDLARS continues to retrieve all citations that contain this heading. The removal of MeSH chemical descriptors from the D5-D26 trees only means that chemical headings are not included in an EXPLODE of a pharmacologic action heading; searching them alone does **not** limit retrieval to articles only about their structures. For example,
(MH) WARFARIN
retrieves all citations indexed with the heading 'warfarin,' including those discussing its structure or any actions associated with it.

Q: Why do I get different results when I search a pharmacologic action heading as (PX) and limit my search to citations indexed since 1996 from when I search for it as (MH)?
A: Searching pharmacologic action headings as (MH) or (PX) results in different retrieval sizes, even when limiting searches by input date. For example, in this search done in March of 1996:

1. SEROTONIN UPTAKE INHIBITORS (MH) AND GREATER THAN 951019 (DA) = 161

2. SEROTONIN UPTAKE INHIBITORS (PX) AND GREATER THAN 951019 (DA) = 309

The first strategy retrieves all citations in which 'serotonin uptake inhibitors' appears as an MH. The articles could be about serotonin uptake inhibitors in general, or about one or more chemicals being used as a serotonin uptake inhibitor, in which case there would also be an 'MH' for the specific chemical.

In the second strategy, all MHs for chemicals identified as serotonin uptake inhibitors (on page I-176 of the 1996 *MeSH Trees*) are retrieved, **whether or not** the article discusses them as a serotonin uptake inhibitor. If an article contains an MH for a chemical and the chemical appears in a pharmacologic action table, the (PX) search will retrieve that citation, even if the Pre-EXPLODEd pharmacologic action is **not** discussed. **Searching on SEROTONIN UPTAKE INHIBITORS (PX) is equivalent to searching EXPLODE SEROTONIN UPTAKE INHIBITORS in the system prior to 1996**. Citations retrieved using the second strategy that do not contain an MH for the pharmacologic action (that is, they don't discuss the pharmacological action) will **not** be retrieved when the first strategy is used. ❑

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Proximity Search Review

Introduction

Since the introduction of the proximity search capability in March 1995, approximately 20 percent of all command language searchers are using this feature. This brief review is intended to remind the experienced searcher of the "do's" and "don'ts" of proximity searching and to introduce the new user to the essentials. For more complete documentation, please see the original article pages 1, 8-16 of the January-February 1995 *Technical Bulletin*.

Below is a table of the proximity commands.

ADJ	Links two terms immediately ADJACENT to each other, LEFT TO RIGHT, in the same sentence. The @ symbol may be used as an alternative to ADJ. Spaces must surround ADJ, but are optional around the @ sign. (dry@eye; dry @ eye; dry adj eye; are equivalent search statements.)
NEAR	Links two terms in any order and with any number of words in between (including no words), in the same sentence. (There is no option to specify a desired word interval.)
CONTAINS	Provides the capability to scan an existing search set for a word or phrase. The existing search set resides on the left of the CONTAINS operator and the text to be scanned is on the right of the CONTAINS operator (e.g., 5 contains nonsmokers where 5 represents search statement 5, NOT the number 5).

Proximity Commands

Clusters and Sentences

There are two proximity-related definitions that are useful in understanding how proximity works. A cluster is a predefined group of elements, such as, the Title and Abstract fields, against which the proximity operators are applied. In MEDLINE if you use ADJ, NEAR or CONTAINS without further qualification, they will be applied to the Title and Abstract fields. For a complete list of the default clusters for all of the databases, consult the chart on page 16 of the January-February 1995 *Technical Bulletin*.

In relation to proximity, a sentence in the Title or Abstract fields may be text ending with a period and at least one space. In any other field, a "sentence" may be at the end of text in that field, which can be a string of numbers or characters or a single number or character (e.g., in the Page (PG) field, the number 1 can be a sentence).

Proximity Rules

1. Proximity expressions cannot be prequalified; field mnemonics must be appended to the proximity statement. See the following examples:

white adj house near aging (ab)
(ta) n engl j med and 95 (yr) contains 142 (pg)

Note: After using NEAR, CONTAINS or ADJ, you must postqualify if you are searching in other than the default cluster. In MEDLINE, for the examples above, both the Title and Abstract fields would have been scanned if the qualifiers AB and PG had not been appended.

2. You may use truncation conservatively with proximity expression, but do **not** use ALL with your truncated term, because all variations of the truncated word are routinely searched. See the following examples:

fat@substitute#
war near wound:

3. If at any time you answer No to a TIME OVFLW: CONT? (Y/N) prompt, you will stop the proximity search and you will not be able to see any retrieved citations.

4. Proximity searches resulting in more than 10,000 records when the terms are first combined will not be processed. You will instead see a message such as the following:

YOUR PROXIMITY SEARCH OF 11,338 RECORDS EXCEEDS 10,000 AND CANNOT BE PROCESSED.

Proximity Tips

Number Searching

Proximity is particularly useful to search for numbers. You can search for numbers in fields which are not directly searchable, such as the Page field, as follows:

science (ta) and 94 (yr) contains 20 (pg)
science (ta) and 94 (yr) contains 20-2 (pg)

Note: You can search for the full pagination in the proper format, if you have this information.

You can also look for numbers in the title or abstract where a purely numeric string is not searchable as a Text Word. For example if you were interested in finding citations discussing beta 2-glycoprotein, the easiest way to do this search would be to enter:

beta@2@glycoprotein

To find articles on the one-hundredth anniversary of an event , using proximity with truncation, you could search on:

100: near anniversary or
hundred: near anniversary

STOPWORD Searching

Using proximity operators, you can look for words that are normally not searchable within ELHILL (STOPWORDs) because they occur so frequently and lack specific meaning, e.g., of, or, very. Occasionally

it may be useful to look for STOPWORDs as part of a phrase. For example the MeSH heading INFANT, VERY LOW BIRTH WEIGHT, was introduced in 1996. To capture the concept of very low birth weight prior to 1996, you could search using the old MeSH heading, INFANT, LOW BIRTH WEIGHT, with CONTAINS:

infant, low birth weight contains very@low@birth@weight

or you could just use adjacency searching:

very adj low adj birth adj weight

Narrowing Your Dataset and Using Contains

Proximity operators work best when used with small retrieval sets. If you narrow down your search, when possible, by using MeSH headings, Text Words, check tags, etc. and then use your final search statement with CONTAINS and the adjacency string, you will save both time and money. In the example above of "very low birth weight," using the previous MeSH heading to the left of the CONTAINS limits the size of the search set being examined for the adjacent terms and is usually more efficient and less expensive than beginning your search with an adjacency statement.

Searching for Human or Animal in TOXLINE

If you use the Boolean operators AND or OR with HUMAN or ANIMAL in TOXLINE or its Backfile, you will see a PROCPSTG OVFLW message. This happens because these two terms appear so frequently that the postings retrieved with either HUMAN or ANIMAL is too large for the ELHILL program to process. With the proximity capability, you have a method of working around this system limitation. Input your search with the chemical name or any other relevant MeSH headings, Text Words, Keywords, etc. and then use CONTAINS to scan your retrieval for HUMAN or ANIMAL as shown in the examples below:

all vitamin a contains human
all tretinoin and 95 (yr) contains animal
6 contains human (where 6 represents search statement 6)

'All' is used above because some TOXLINE subfiles use Keyword indexing and others use MeSH headings; 'all' will retrieve a term from any field in which it appears.

Note: Narrow down the retrieval to the left of the CONTAINS operator as much as possible. The CONTAINS search statement should be at the end of your search, not the beginning.

Locating the Original Citation From the Commenting Citation

Citations commenting on previous articles in the same journal have the rubric Comment in the Title field (bolded in the sample citation below) and a Comment (CM) field containing source information for the original article being commented on. (See the November 1989 *Technical Bulletin* article on pages 7-9 for more information on Comments). In order to retrieve the citation shown in the CM field, give a command with the following format: Title Abbreviation (TA) AND Date of Publication (DP) CONTAINS Page (PG). For example, if your search retrieved the first citation shown in Figure 1 below, you could use the data from the CM field to retrieve the original article being commented on.

UI - 96067443
AU - Simpson JL
TI - Pregnancy and the timing of intercourse [editorial; **comment**]
CM - Comment on: N Engl J Med 1995 Dec 7;333(23):1517-21 • **Citation Wanted.**
SO - N Engl J Med 1995 Dec 7;333(23):1563-5

SS 2 /C? • **To retrieve the citation in the CM field above.**
USER:
n engl j med (ta) and 1995 dec 7 (dp) contains 1517-21 (pg) • **TA AND DP CONTAINS PG**

PROG:
SS (2) PSTG (1)

SS 4 /C?
USER:
prt compr

PROG:

1 • **One step retrieval of the original citation commented on.**
UI - 96067433
AU - Wilcox AJ ; Weinberg CR ; Baird DD
TI - Timing of sexual intercourse in relation to ovulation. Effects on the probability of conception, survival of the pregnancy, and sex of the baby [see comments]
CM - Comment in: N Engl J Med 1995 Dec 7;333(23):1563-5
SO - N Engl J Med 1995 Dec 7;333(23):1517-21

Figure 1 - Retrieving the Original Article Using Information from the Commenting Article

Proximity Precautions

1. Proximity searching should not be used instead of searching with MeSH headings. If there is a MeSH heading, such as CROHN DISEASE, do **not** search for crohn adj disease.

2. It is often cheaper and faster to search on Text Word Title Fragments (TF) than to use a proximity operator and restrict it to Title (TI). For example, heart adj attack (ti) yields 42 citations and costs 12 cents, but (tf) heart and attack yields 44 citations and costs only 8 cents. That's a 50% difference in cost for a relatively small search difference.

3. When using CONTAINS, try to keep the postings on the left side of the CONTAINS operator **as small as possible**. For example, if you are going to use CONTAINS with a page number for a journal title, then it is useful to first combine the journal's Title Abbreviation (TA) with the year to reduce the number of postings that will be scanned as shown in the following example:

jama (ta) and 95 (yr) contains
1761 (pg)

4. Proximity searches involving large data sets will show the following notice:

NOTE: YOUR PROXIMITY SEARCH OF 4,387 RECORDS MAY CAUSE MANY TIME OVERFLOWS. TIME OVFLW: CONT?Y/N

Take this warning seriously! At this point, you may wish to answer no, and further narrow down your retrieval before applying a proximity operator.

Conclusion

Proximity searching offers some powerful new search features. It is particularly useful in searching for numbers and STOPWORDs as well as in finding true adjacency. It is not a substitute for using MeSH and constructing a well planned search; and when proximity searching is used inappropriately it may be time consuming and expensive. Please send your comments/concerns/questions on this feature to mms@nlm.nih.gov. ❑

--prepared by Toby Port
MEDLARS Management Section

NLM Classification, 5th edition - Additions and Changes List 1

NLM has made the following additions and changes to the fifth edition of the *NLM Classification* since its publication in 1994. Future additions and changes will be announced on an irregular basis in the *Technical Bulletin* and on the MEDLIB-L and AUTOCAT listservs as needs arise.

The bolded areas in the text indicate the changes. ❑

--prepared by Wen-Min Kao
Technical Services Division

Additions/Changes in the Main schedules

Page Reference	Change/Addition
p. 75 at WB 17	add **Pictorial works** to caption
p. 154 at WM 17	add **Atlases** to caption
p. 171 preceding WO 205	correct typographical error: change Collections (Ge**m**eral) to: Collections (Ge**n**eral)
p. 225 at WX 162	change the last part of the note from: ... WT 3**0** to: ... WT 3**1**
p. 230 at WY 154	correct typographical error: change the last word from: nuring to: nur**s**ing in the caption

Additions/Changes in the Index

Page Reference	Change/Addition
p. I-37 at Calcium-Binding	Proteins add classification no.: **QU 55**
p. I-54 under Communism at sub-index Special topics, by subject, e.g., State medicine in a communist country	change classification no. from: W 2**7**5 to: W 2**2**5
p. I-107 under Handbooks, at sub-index Metabolic diseases	change classification no. from: WD 20**1** to: WD 20**0.1**
p. I-109 at Health Planning Support	change classification no. from: WA **540** to: WA **525-546**

Additions/Changes in the Index

Page Reference	Change/Addition
p. I-109 at Health Services, Indigenous	**delete** classification no. **W250**; add sub-indexes: **General W 84** **Private practice WB 50** **Special population groups WA 300-395**
p. I-129, at Insurance, Psychiatric	change classification no. from: W 270**-275** to: W 270
p. I-171 at Object Attachment	change classification no. from: WM 460.5.**02** to: WM 460.5.**O2** (the letter **O** not the number **0**)
p. I-228, at State Dentistry	**delete** the entire line of sub-index, **By political jurisdiction W 275**
p. I-228, at State Medicine	**delete** the entire line of sub-index, **By political jurisdiction W 275**
p. I-252, under Veterans at sub-index Provision for vetrans ...	correct spelling to: vet**e**rans

NLM Implementation of USMARC Bibliographic Format Integration: Phase 2

The information in this article will be of interest to users of NLM bibliographic records as found in bibliographic utilities such as OCLC (Online Computer Library Center) and RLIN (Research Libraries Information Network) and other library services agencies. Bibliographic records found in the NLM ELHILL files (e.g., CATLINE and AVLINE) are not affected.

Background

NLM, along with other USMARC data providers, has implemented the modifications outlined in *USMARC Format for Bibliographic Data*, 1994 edition in two phases. NLM completed the necessary modifications for Phase 1, which involved changes to the variable length fields 010 - 88X, in April 1995 and began distributing USMARC records conforming to those changes to tape licensees on April 27, 1995. (Note: For a detailed description of NLM's implementation of Phase 1 of USMARC bibliographic format integration, refer to the article on this subject published in the March - April 1995 issue of the *Technical Bulletin*).

NLM performed the internal implementation of Phase 2, the final phase of USMARC bibliographic format integration, in late March 1996. NLM began distribution of records conforming to the Phase 2 changes to licensees of NLM tape products in March 1996 (for weekly subscribers) and in April 1996 (for monthly subscribers). These records appeared in the bibliographic utilities that license NLM data according to vendor-established schedules.

Phase 2 primarily affected the USMARC Leader and fixed length fields 001-008. It was based on the *USMARC Format for Bibliographic Data*, inclusive of those changes announced in Update #1 (March 1995), as published by the Library of Congress.

Major Changes Due to Phase 2

Users of NLM bibliographic data will not encounter significant changes to the intellectual content of NLM cataloging records due to format integration. As with Phase 1, the changes in the second phase of format integration primarily affected the content designation and structure of NLM data as distributed in the USMARC tape products and did not reflect any substantive change in NLM cataloging policies for the creation of full or limited level bibliographic records. The major changes due to Phase 2 of format integration are detailed below.

- NLM has begun to use the USMARC field 006 (Fixed Length Data Elements — Additional Material Characteristics) to provide information for characteristics associated with non-textual serials and with material that has characteristics of more than one medium or format (e.g., a print item accompanied by a computer software diskette).

  Use of the USMARC field 006 permitted NLM to begin the distribution of bibliographic records for non-print and computer software serials to licensees of AVLINE records. Records for non-print and computer software serials were not previously distributed to either CATLINE or AVLINE subscribers.

  NLM retrospectively converted the approximately 200 records for non-print and computer software serials to create the appropriate USMARC 006 fields. These records were included in the regular distribution to subscribers of AVLINE in USMARC format.

- NLM has implemented an expanded use of the USMARC field 007 (Physical Description Fixed Field). Specifically, NLM is now coding the USMARC field 007 for computer files. In addition, NLM is supplying detailed, rather than general, coding of the USMARC field 007 for the physical characteristics of the various components of multi-media material. For example, the record for a kit composed of a slide component and a videorecording component now contains USMARC 007 fields reflecting the physical characteristics of each of these media. Similarly, NLM is coding the specific physical characteristics for non-print material or computer software which may accompany a print item being cataloged.

- NLM has adopted the coding redefinitions for the USMARC field 008 (Fixed Length Data Elements) as described in the *USMARC Format for Bibliographic Data*, 1994 edition and Update #1 (March 1995).

Questions about the implementation of USMARC bibliographic format integration at NLM should be directed to the Head, Systems Unit, Cataloging Section, Technical Services Division at 301-496-5497, or e-mail to tsd@nlm.nih.gov. ❑

--prepared by Marti Scheel
Technical Services Division

SERIALS UPDATE

Indexed Titles Updated, November 1995 - February 1996

The following titles cited in MEDLINE, HEALTH, and HSTAR have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, Technical Services Division at 301-496-3784 or elb@nlm.nih.gov.

Serials Update information may also be obtained by anonymous ftp from the host nlm.pubs.nlm.nih.gov. The file is in the directory /online/journals. The same Update information may also be obtained from the NLM Gopher; first gopher to gopher.nlm.nih.gov, then select Online Services, then select Journal Title Lists. Questions about ftp from the NLM anonymous server should be addressed to:

ftpadmin@nlmpubs.nlm.nih.gov

and questions about the NLM Gopher should be addressed to:

admin@gopher.nlm.nih.gov

Titles Selected for Indexing, November-December 1995

IM CONSCIOUSNESS AND COGNITION
CONSCIOUS COGN
1,1992—
ACADEMIC PRESS
SAN DIEGO CA UNITED STATES
INDEXING BEGAN WITH V4N1,MAR 1995.
W1 CO736L 1053-8100
SR0069848 JC: CGT

HLI DEVELOPMENTS IN HEALTH ECONOMICS AND PUBLIC POLICY
DEV HEALTH ECON PUBLIC POLICY
1,1992—
KLUWER ACADEMIC
DORDRECHT NETHERLANDS
INDEXING BEGAN WITH V1,1992.
W1 DE997VZE
SR0073664 JC: CHW
KLUWER ACADEMICS PUBLISHERS
P.O. BOX 17
3300 AA DORDRECHT
THE NETHERLANDS

HLI ED MANAGEMENT
ED MANAG
1N1,APR 1989?—
AMERICAN HEALTH CONSULTANTS
ATLANTA GA UNITED STATES
UNCATALOGED SERIAL RECORD. THE MONTHLY UPDATE ON EMERGENCY DEPARTMENT MANAGEMENT.
INDEXING BEGAN WITH V7N1,JAN 1995.
W1 EO42 1044-9167
SR0070784 JC: CHX
AMERICAN HEALTH CONSULTANTS
3525 PIEDMONT RD
BLD. 6 SUITE 400
ATLANTA GA 30374

HLI HEALTH CARE MANAGEMENT
HEALTH CARE MANAG
VOL. 1, NO. 1 (AUG. 1994)-
HANLEY AND BELFUS
PHILADELPHIA PA UNITED STATES
INDEXING BEGAN WITH V1N1,AUG 1994.
W1 HE299LR 1069-6571
SR0078495 JC: CHZ
HANLEY AND BELFUS INC.
210 SOUTH 13TH STREET
PHILADELPHIA PA 19107

HLI HEALTHCARE SYSTEMS STRATEGY REPORT
HEALTHC SYST STRATEGY REP
11N13,1994—
CAPITOL PUBLICATIONS
ALEXANDRIA VA UNITED STATES
CONTINUES: HEALTH CARE COMPETITION WEEK.
INDEXING BEGAN WITH V12N1,JAN 6 1995.
W1 HE608V
SR0082607 JC: CH0
CAPITOL PUBLICATIONS INC.
1101 KING STREET
SUITE 444
ALEXANDRIA VA 22314-2968

HLI HMO
HMO
VOL. 35, NO. 4 (JULY/AUG. 1994)-
GROUP HEALTH ASSOCIATION OF AMERICA
WASHINGTON DC UNITED STATES
PRECEDING ENTRY: HMO MAGAZINE
INDEXING BEGAN WITH V36N1,JAN-FEB 1995.
W1 HM676RL 1050-9038
SR0083784 JC: CH1
GROUP HEALTH ASSOCIATION OF AMERICA
1129 20TH STREET NW; SUITE 600
WASHINGTON DC 20036

HLI HOSPITAL CASE MANAGEMENT
HOSP CASE MANAG
1,1993—
AMERICAN HEALTH CONSULTANTS
ATLANTA GA UNITED STATES
THE MONTHLY UPDATE ON HOSPITAL-BASED CARE PLANNING AND CRITICAL PATHS. EACH ISSUE INCLUDES: CRITICAL PATH NETWORK.
INDEXING BEGAN WITH V3N1,JAN 1995.
ON ORDER
SR0077812 JC: CH2
AMERICAN HEALTH CONSULTANTS INC.
3525 PIEDMONT RD. N.E.
BUILDING SIX
SUITE 400
ATLANTA GA 30305

HLI HOSPITAL PEER REVIEW
HOSP PEER REV
1N1,AUG? 1976—
AMERICAN HEALTH CONSULTANTS
ATLANTA GA UNITED STATES
INCLUDING: DISCHARGE PLANNING ADVISOR.
INDEXING BEGAN WITH V2N12,DEC 1977 AND CEASED WITH V8N11,NOV 1983.
INDEXING RESUMED WITH V20N1, JAN 1995.
W1 HO864 0149-2632
H19640000 JC: GD0
AMERICAN HEALTH CONSULTANTS
67 PEACHTREE PARK DR NE
ATLANTA GA 30309

IM HYPERTENSION RESEARCH
HYPERTENS RES
15N1,JUN 1992—
JAPANESE SOCIETY OF HYPERTENSION
TOYONAKA JAPAN
CONTINUES: KOKETSUATSU.
INDEXING BEGAN WITH V18N1,MAR 1995.
W1 HY843 0916-9636
SR0075246 JC: CGU
NIHON GAKKAI JIMU SENTA
GAKKAI SENTA BIRU
4-16 YAYOI 2 CHOME
BUNKYOKU
TOKYO 113
JAPAN

IM JOURNAL OF CARDIOPULMONARY REHABILITATION
J CARDPULM REHABIL
5N5,MAY 1985—
LIPPINCOTT
PHILADELPHIA PA UNITED STATES
FREQUENCY VARIES. RUNNING TITLE: JCR.
CONTINUES: JOURNAL OF CARDIAC REHABILITATION. IMPRINT VARIES: NEW YORK, LE JACQ PUBLISHING CO. (VOL. 5, 1985-V. 8, NO. 1, JAN. 1988); PHILADELPHIA, LIPPINCOTT(V. 8, NO. 2, FEB. 1988-).
INDEXING BEGAN WITH V15N1,JAN/FEB 1995.

Titles Selected for Indexing, November-December 1995

W1 JO574V 0883-9212
SR0054698 JC: CGV
LE JACQ
53 PARK PLACE
NEW YORK
NEW YORK 10007

IM JOURNAL OF COMPUTATIONAL BIOLOGY
J COMPUT BIOL
1N1,SPRING 1994—
MARY ANN LEIBERT
NEW YORK NY UNITED STATES
A JOURNAL OF COMPUTATIONAL MOLECULAR CELL BIOLOGY.
INDEXING BEGAN WITH V1N1,SPRING 1994.
W1 JO595KK 1066-5277
SR0078401 JC: CGW
MARY ANN LEIBERT INC.
1651 THIRD AVENUE
NEW YORK NY 10128

IM JOURNAL OF COMPUTATIONAL NEUROSCIENCE
J COMPUT NEUROSCI
VOL. 1, NO. 1/2 (JUNE 1994)-
KLUWER ACADEMIC PUBLISHERS
BOSTON MA UNITED STATES
INDEXING BEGAN WITH V1N1/2,JUN 1994.
W1 JO595KL 0923-5313
SR0080008 JC: CGY

HLI JOURNAL OF CONTEMPORARY HEALTH
IM LAW AND POLICY
J CONTEMP HEALTH LAW POLICY
1N1,SPRING 1985—
CATHOLIC UNIVERSITY OF AMERICA PRESS
WASHINGTON DC UNITED STATES
ONE ARTICLE FROM VOL. 9,SPRING 1993 (PP. 1-76) REPRINTED AS SEPARATE VOL. 9,1993. FREQUENCY VARIES.
INDEXING FOR HLI BEGAN WITH V1N1,1985.
INDEXING FOR IM BEGAN WITH V12N1,FALL 1995.
W1 JO595T 0882-1046
SR0054761 JC: IDD
JOURNAL OF CONTEMPORARY HEALTH LAW AND POLICY
COLUMBUS SCHOOL OF LAW
CATHOLIC UNIVERSITY
WASHINGTON DC 20064

IM JOURNAL OF MEDICAL SCREENING
J MED SCREEN
1,1994—
BMJ PUBLISHING GROUP
LONDON ENGLAND
INDEXING BEGAN WITH VN1,JAN 1994.
W1 JO756M 0969-1413
SR0077906 JC: CGZ
BMJ PUBLISHING GROUP
BMA HOUSE TAVISTOCK SQUARE
LONDON WC1H 9JR
ENGLAND

INI JOURNAL OF NURSING MEASUREMENT
IM J NURS MEAS
1N1,SPRING 1993—
SPRINGER PUBLISHING
NEW YORK NY UNITED STATES
INDEXING FOR INI BEGAN WITH V1N1,SPRING 1993. INDEXING FOR IM BEGAN WITH V3N1,SUMMER 1995.
W1 JO797CGM 1061-3749
SR0074771 JC: B6L
SPRINGER PUBLISHING CO.
536 BROADWAY
NEW YORK NY 10012-3955

IM JOURNAL OF VIRAL HEPATITIS
J VIRAL HEPAT
1,1994—
BLACKWELL SCIENTIFIC PUBLICATIONS
OXFORD ENGLAND
INDEXING BEGAN WITH V1N1,1994.
W1 JO969 1352-0504
SR0079689 JC: CG0

HLI MEDICAL NETWORK STRATEGY REPORT
MED NETW STRATEGY REP
VOL. 3, NO. 10 (OCT. 1994)-
COR RESEARCH RESOURCES
SANTA BARBARA CA UNITED STATES
CONTINUES: MEDICAL STAFF STRATEGY REPORT.
INDEXING BEGAN WITH V4N1,JAN 1995.
W1 ME498KS 1079-3003
SR0082701 JC: CH4
MEDICAL NETWORK STRATEGY REPORT
P.O. BOX 40959
SANTA BARBARA CA 93140-0959

IM METAL IONS IN BIOLOGICAL SYSTEMS
MET IONS BIOL SYST
2,1973—
DEKKER
NEW YORK NY UNITED STATES
VOL.1 ISSUED OUT OF CHRONOLOGICAL ORDER IN 1974.
INDEXING BEGAN WITH V31,1995.
W1 ME9611AT 0161-5149
M32050000 JC: CG1
DEKKER
270 MADISON AVE
NEW YORK NY 10016

IM MICROCIRCULATION
MICROCIRCULATION
1, 1994—
CHAPMAN AND HALL
NEW YORK NY UNITED STATES
THE OFFICIAL JOURNAL OF THE MICROCIRCULATORY SOCIETY, INC.
INDEXING BEGAN WITH V1N1,APR 1994.
W1 MI297R 1073-9688
SR0078508 JC: CG2
CHAPMAN AND HALL
INTERNATIONAL THOMSON PUBLISHING SERVICE
ANDOVER HAMPSHIRE SP10 5BE
ENGLAND

IM MOLECULAR MEDICINE
MOL MED
VOL. 1, NO. 1 (NOV. 1994)-
BLACKWELL SCIENCE
CAMBRIDGE MA UNITED STATES
INDEXING BEGAN WITH V1N1,NOV 1994.
W1 MO196MH 1076-1551
SR0081348 JC: CG3
BLACKWELL SCIENCE INC.
BSP
238 MAIN ST.
CAMBRIDGE MA 02142

HLI NATONAL REPORT ON SUBACUTE CARE
NATL REP SUBACUTE CARE
VOL. 1, NO. 1 (DEC. 15, 1993)-
HARLING COMMUNICATIONS
LUSBY MD UNITED STATES
IMPRINT VARIES.
INDEXING BEGAN WITH V4N1,1996.
W1 NA612 1073-2551
SR0079013 JC: CH5
HARLING COMMUNICATIONS
13148 RIVER VIEW DRIVE
LUSBY MD 20657

IM NATURE MEDICINE
NAT MED
VOL. 1, NO. 1 (JAN. 1995)-
NATURE PUBLISHING COMPANY
NEW YORK NY UNITED STATES
INDEXING BEGAN WITH V1N1,JAN 1995.
W1 NA812M 1078-8956
SR0082208 JC: CG5
NATURE MEDICINE
SUBSCRIPTION DEPARTMENT
345 PARK AVENUE SOUTH
10TH FLOOR
NEW YORK NY 10010-1707

IM OPHTHALMIC EPIDEMIOLOGY
OPHTHALMIC EPIDEMIOL
VOL. 1, NO. 1 (MAR. 1994)-
AEOLUS PRESS
BUREN NETHERLANDS
INDEXING BEGAN WITH V1N1,MAR 1994.
W1 OP217C 0928-6586
SR0078940 JC: CG6

IDL ORAL SURGERY, ORAL DIAGNOSIS
ORAL SURG ORAL DIAGN
1,1990?—
FREO - FINNISH FOUNDATION FOR RESEARCH AND EDUCATION IN ORAL SURGERY, TRAUMATOLOGY AND REHABILITATION IN COOPERATION WITH THE INSTITUTE OF ORAL SURGERY, UNIVERSITY OF KUOPIO
KUOPIO FINLAND
INDEXING BEGAN WITH V3,1992.
W1 OR124 0788-6020
SR0078775 JC: CIP
FREO R.Y. - ORAL ORAL DIAGNOSIS
NIIRALANKATU 9 C 7
SF-70600 KUOPIO FINLAND

Titles Selected for Indexing, November-December 1995

IM PAEDIATRIC ANAESTHESIA
PAEDIATR ANAESTH
1,1991—
ARNETTE-BLACKWELL PUBLICATIONS
PARIS FRANCE
FREQUENCY VARIES.
INDEXING BEGAN WITH V5N1,1995.
W1 PA263H 1155-5645
SR0072108 JC: CG8

IM REVISTA DE NEUROLOGIA
REV NEUROL
1,1972—
DEPARTAMENO DE MEDICINA (NEUROLOGIA), UNIVERSIDAD DE ALICANTE CAMPUS DE SAN JUAN
SAN JUAN ALICANTE SPAIN
IMPRINT VARIES.
INDEXING BEGAN WITH V23N119,JAN-FEB 1995.
W1 RE446E 0210-0010
R38120000 JC: CG9
PUBLICIDAD PERMANYER
C/MALLORCA 310
BARCELONA-37
SPAIN

IM RNA
RNA
1N1,MAR 1995—
CAMBRIDGE UNIVERSITY PRESS
NEW YORK NY UNITED STATES
OFFICIAL PUBLICATION OF THE RNA SOCIETY.
INDEXING BEGAN WITH V1N1,MAR 1995.
W1 RN184 1355-8382
SR0082106 JC: CHB
CAMBRIDGE UNIVERSITY PRESS
JOURNALS DEPARTMENT
CAMBRIDGE CB2 2RU
ENGLAND

IM SAR AND QSAR IN ENVIRONMENTAL RESEARCH
SAR QSAR ENVIRON RES
1,1993—
GORDON AND BREACH SCIENCE PUBLISHERS
READING ENGLAND
INDEXING BEGAN WITH V1N1,1993.
W1 SA9419 1062-936X
SR0081594 JC: CHD
GORDON AND BREACH SCIENCE PUBLISHERS
C/O STBS P.O. BOX 90
READING BERKSHIRE RG1 8JL
ENGLAND

HLI SUBACUTE CARE
SUBACUTE CARE
1N1,DEC 1994?—
BILL COMMUNICATIONS
NEW YORK NY UNITED STATES
INDEXING BEGAN WITH V3N1,1996.
ON ORDER
SR0086414 JC: CH6
SUBACUTE CARE
PUBLISHER: DAVID ELLIS
355 PARK AVENUE SOUTH
NEW YORK NY 10010-1789

Title Changes, November-December 1995

IM ANNUAL REVIEW OF CELL AND DEVELOPMENTAL BIOLOGY
ANN REV CELL DEV BIOL
11,1995—
ANNUAL REVIEWS
PALO ALTO CA UNITED STATES
PRECEDING ENTRY: ANNUAL REVIEW OF CELL BIOLOGY
INDEXING BEGAN WITH V11,1195.
W1 AN77G 1081-0706
SR0083589 JC: CIH

IM CANCER BIOTHERAPY AND RADIOPHARMACEUTICALS
CANCER BIOTHER RADIOPHARM
11N1,SPRING 1996—
MARY ANN LIEBERT
LARCHMONT NY UNITED STATES
CONTINUES: CANCER BIOTHERAPY.
INDEXING BEGAN WITH V10N4,WINTER 1995.
ON ORDER-TITLECHANGE
1084-9785
SR0086392 JC: CHV

IM CESKA A SLOVENSKA OFTALMOLOGIE
CESK SLOV OFTALMOL
51N1,FEB 1995—
CESKA LEKARSKA SPOLECNOST J. EV. PURKYNE
PRAHA CZECHOSLOVAKIA
PRECEDING ENTRY: CESKOSLOVENSKA OFTALMOLOGIE CASOPIS CESKE OFTALMOLOGICKE SPOLECNOSTI A SLOVENSKE OFTALMOLOGICKE SPOLECNOSTI.
INDEXING BEGAN WITH V51N1,FEB 1995.
W1 CE897P
SR0086587 JC: CIF

IDL COMPENDIUM OF CONTINUING EDUCATION IN DENTISTRY
COMPEND CONTIN EDUC DENT
VOL. 16, NO. 2 (FEB. 1995)-
DENTAL LEARNING SYSTEMS
JAMESBURG PA UNITED STATES
PRECEDING ENTRY: COMPENDIUM (NEWTOWN, PA.)
INDEXING BEGAN WITH V16N2,FEB 1995.
W1 CO437V
SR0086542 JC: CH9

IM HEMATOPATHOLOGY AND MOLECULAR HEMATOLOGY
HEMATOP MOL HEMATOL
10N1,1996—
MARCEL DEKKER JOURNALS
MONTICELLO NY UNITED STATES
CONTINUES: HEMATOLOGIC PATHOLOGY.
INDEXING BEGAN WITH V10N1,1996.
ON ORDER-TITLECHANGE
1082-8893
SR0085984 JC: CH7

IDL ILLINOIS DENTAL NEWS
ILL DENT NEWS
VOL. 64, ISSUE 5 (SEPT. 1995)-
ILLINOIS STATE DENTAL SOCIETY
SPRINGFIELD IL UNITED STATES
PRECEDING ENTRY: ILLINOIS DENTAL JOURNAL
THE OFFICIAL JOURNAL OF THE ILLINOIS STATE DENTAL SOCIETY.
INDEXING BEGAN WITH V64N5,SEP 1995.
W1 IL249 1084-8282
SR0086512 JC: CIB

IM JOURNAL OF NEURAL TRANSMISSION. BASIC NEUROSCIENCES - NEUROLOGY SECTION -PSYCHIATRY SECTION
J NEURAL TRANSM BASIC NEUROSCI NEUROL SECT PSYCHIATRY SECT
103,1996—
SPRINGER VERLAG
BERLIN GERMANY
FORMED BY THE UNION OF: JOURNAL OF NEURAL TRANSMISSION. PARKINSONS DISEASE AND DEMENTIA SECTION, AND: JOURNAL OF NEURAL TRANSMISSION. GENERAL SECTION, AND CONTINUES THE NUMBERING OF THE LATTER.
INDEXING BEGAN WITH V103N1,1996.
ON ORDER-TITLECHANGE
SR0086606 JC: CIJ

Title Changes, November-December 1995

IM KLINICHNA KHIRURHIIA
KLIN KHIR
N635,1995N1—
MINISTERSTVO OKHORONY ZDOROVIA UKRAINY
KYIV UKRAINE
CONTINUES: KLINICHESKAIA KHIRURGIIA.
ISSUES CARRY DOUBLE NUMBERING.
INDEXING BEGAN WITH N1,1995.
W1 KL185
SR0086051 JC: CGJ

IM REVISTA ESPANOLA DE SALUD PUBLICA
REV ESP SALUD PUBLICA
VOL. 69, NO. 2 (MARZO-ABR. 1995)-
MINISTERIO DE SANIDAD Y CONSUMO
MADRID SPAIN
PRECEDING ENTRY: REVISTA DE SANIDAD E HIGIENE PUBLICA
INDEXING BEGAN WITH V69N2,MAR-APR 1995.
W1 RE49
SR0086549 JC: CIA

Titles No Longer Indexed, November-December 1995

HLI ADMINISTRATIVE SCIENCE QUARTERLY
ADM SCI Q
1,1956—
CORNELL UNIVERSITY. GRADUATE SCHOOL OFBUSINESS AND PUBLIC ADMINISTRATION
ITHACA NY UNITED STATES
INDEXING BEGAN WITH V20N1, MARCH 1975 AND CEASED WITH V39N4,DEC 1994.
W1 AD347 0001-8392
A12525000 JC: 2H6

IDL ANESTHESIA AND PAIN CONTROL IN DENTISTRY
ANESTH PAIN CONTROL DENT
1N1,WINTER 1992-2N4,FALL 1993
QUINTESSENCE PUBLISHING
CAROL STREAM IL UNITED STATES
OFFICIAL JOURNAL OF THE INTERNATIONAL FEDERATION OF DENTAL ANESTHESIOLOGY SOCIETIES AND EUROPEAN FEDERATION FOR THE ADVANCEMENT OF ANAESTHESIA IN DENTISTRY.
INDEXING BEGAN WITH V1N1,1992.
W1 AN217KG 1055-7601
SR0071853 JC: BMF

IM CHRONOBIOLOGIA
CHRONOBIOLOGIA
1,1974-21,1994
ASSOCIATED CHRONOBIOLOGIA RESEARCHERS
MILANO ITALY
INDEXING BEGAN WITH V1N1,JAN-MAR 1974.
W1 CH972 0390-0037
C20700000 JC: D7P

IM FAMILY PRACTICE RESEARCH JOURNAL
FAM PRACT RES J
1N1,FALL 1981-14N4,DEC 1994
HUMAN SCIENCES PRESS
NEW YORK NY UNITED STATES
FREQUENCY VARIES. VOLS. FOR WINTER 1981-
ISSUED WITH TITLE: FAMILY PRACTICE RESEARCH JOURNAL. VOLS. FOR FALL 1981-WINTER 1986 CO-SPONSORED BY THE MICHIGAN ACADEMY OF FAMILY PHYSICIANS AND BY THE FAMILY HEALTH RESEARCH, EDUCATION AND SERVICE INSTITUTE; VOLS.FOR SPRING 1987- BY THE CALIFORNIA, MICHIGAN, MINNESOTA, AND OHIO ACADEMIES OF FAMILY PHYSICIANS. VOL. 8 (1988-89) COMPLETE IN TWO ISSUES.
INDEXING BEGAN WITH V5N3, SPRING 1986.
W1 FA454CP 0270-2304
F01095000 JC: 123

IM FORTSCHRITTE AUF DEM GEBIETE DER RONTGENSTRAHLEN UND DER NEUEN BILDGEBENDEN VERFAHREN. ERGANZUNGSBAND
FORTSCHR GEB RONTGENSTRAHLEN NEUEN BILDGEB VERFAHR ERGANZUNGSBD
130,1992
GEORG THIEME VERLAG
STUTTGART GERMANY
SUPPLEMENT TO: ROFO.
FORTSCHRITTE AUF DEM GEBIETE DER RONTGENSTRAHLEN UND DER NEUEN BILDGEBENDEN VERFAHREN.
CONTINUES: FORTSCHRITTE AUF DEM GEBIETE DER RONTGENSTRAHLEN UND DER NUKLEARMEDIZIN. ERGANZUNGSBAND.
V130,1992 ONLY ISSUE INDEXED.
W1 FO814
SR0078649 JC: BWK

HLI FOUNDATION NEWS AND COMMENTARY
FOUND NEWS COMMENT
VOL. 35, NO. 2 (MAR./APR. 1994)-
COUNCIL ON FOUNDATIONS
WASHINGTON DC UNITED STATES
CONTINUES: FOUNDATION NEWS. NLM RETAINS LAST 3 YEARS.
INDEXING BEGAN WITH V35N2, MAR-APR 1994 AND CEASED WITH V35N6,NOV-DEC 1994.
W1 F09825C 1076-3961
SR0082011 JC: B4P

HLI HEALTH MANAGEMENT QUARTERLY
HEALTH MANAGE Q
FALL 1984-1986N4,9N1,1987-16N4,1994
BAXTER FOUNDATION
DEERFIELD IL UNITED STATES
CONTINUES: HOSPITAL MANAGEMENT QUARTERLY.
INDEXING BEGAN WITH FALL,1984.
W1 HE413Q 0091-323X
SR0053511 JC: HMS

HLI INTERNATIONAL JOURNAL OF PARTIAL HOSPITALIZATION
INT J PARTIAL HOSP
1N1,JAN 1982-8N2,DEC 1992
PLENUM
NEW YORK NY UNITED STATES
INDEXING BEGAN WITH V1N1, JAN 1982.
W1 IN771ND 0272-4308
I27643000 JC: GTB

HLI JOURNAL OF BUSINESS STRATEGY
J BUS STRATEGY
1N1,SUMMER 1980—
WARREN GORHAM AND LAMONT
BOSTON MA UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
TITLE FROM COVER. FREQUENCY VARIES. ABSORBED: JOURNAL OF EUROPEAN BUSINESS, AND: CHIEF INFORMATION OFFICER JOURNAL, WHICH ARE NOT IN THE NLM COLLECTION, IN 1994.
INDEXING BEGAN WITH V3N1,SUMMER 1982 AND CEASED WITH V15N6,NOV-DEC 1994.
REGIONAL HOLDINGS 0275-6668
J14895000 JC: HL4

Titles No Longer Indexed, November-December 1995

HLI LONG RANGE PLANNING
LONG RANGE PLANN
1,1968—
PERGAMON PRESS
OXFORD ENGLAND
JOURNAL OF THE SOCIETY FOR LONG RANGE PLANNING AND OF THE EUROPEAN PLANNING FEDERATION.
THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V10N5,OCT 1977 AND CEASED WITH V27N6,DEC 1994.
REGIONAL HOLDINGS
0024-6301
L12360000 JC: L7X

INI NURSING EDUCATORS MICROWORLD
NURS EDUC MICROWORLD
1N5,JUN/JUL 1987-8N2,MAR/APR 1994
DISKOVERY, COMPUTER-ASSISTED
HEALTHCARE EDUCATION
SARATOGA CA UNITED STATES
IMPRINT VARIES. CONTINUES: NURSE EDUCATORS MICROWORLD.
ABSORBED BY: INTERACTIVE HEALTHCARE NEWSLETTER.
INDEXING BEGAN WITH V2N4,APR-MAY 1988.
W1 NU5954 0893-1356
SR0061847 JC: OCU

HLI PUBLIC OPINION QUARTERLY
PUBLIC OPIN Q
1,1937—
UNIVERSITY OF CHICAGO PRESS
CHICAGO IL UNITED STATES
AMERICAN ASSOCIATION FOR PUBLIC OPINION RESEARCH
INDEXING BEGAN WITH V41N4, WINTER 1977-78 AND CEASED WITH V58N4,WINTER 1994.
W1 PU627 0033-362X
P57860000 JC: QIA

Title Changes, January-February 1996

IM ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY
ENVIRON TOXICOL PHARMACOL
1,1996—
ELSEVIER
AMSTERDAM NETHERLANDS
CONTINUES IN PART: EUROPEAN JOURNAL OF PHARMACOLOGY.
INDEXING BEGAN WITH V1N1,1996.
ON ORDER 1328-6689
SR0086869 JC: CI2

IM GENES AND GENETIC SYSTEMS
GENES GENET SYST
71,1996—
GENETICS SOCIETY OF JAPAN
TOKYO JAPAN
CONTINES: JAPANESE JOURNAL OF GENETICS.
INDEXING BEGAN WITH V71N1, FEB 1996.
ON ORDER-TITLECHANGE
1341-7568
SR0086761 JC: CIZ

IM MEDICINE AND HEALTH, RHODE ISLAND
MED HEALTH R I
79,1996—
RHODE ISLAND MEDICAL SOCIETY
PROVIDENCE RI UNITED STATES
CONTINUES: RHODE ISLAND MEDICINE.
INDEXING BEGAN WITH V79N1,1996.
W1 RH523 1086-5462
SR0086875 JC: CI4

Titles No Longer Indexed, January-February 1996

HLI CALIFORNIA HOSPITALS
CALIF HOSP
1N1,NOV/DEC 1986-9N4,WINTER 1995
CALIFORNIA HOSPITALS INVESTMENT AND PUBLICATIONS
SACRAMENTO CA UNITED STATES
PUBLISHED BY: CALIFORNIA ASSOCIATION OF HOSPITALS AND HEALTH SYSTEMS, 1986-1990?.
INDEXING BEGAN WITH V4N1,JAN-FEB 1990.
W1 CA371F 0896-2766
SR0061883 JC: AQ8

HLI CANADIAN JOURNAL OF HOSPITAL PHARMACY
CAN J HOSP PHARM
22,1969—
CANADIAN SOCIETY OF HOSPITAL PHARMACISTS
WESTON CANADA
CONTINUES HOSPITAL PHARMACIST.
VOLS. 36-37 (1983-1984) COMPLETE IN FOUR ISSUES.
INDEXING BEGAN WITH V28N1,JAN-FEB 1975 AND CEASED WITH V48N6,DEC 1995.
W1 CA59 0008-4123
C04140000 JC: D2K

HLI CANADIAN JOURNAL OF MEDICAL RADIATION TECHNOLOGY
CAN J MED RADIAT TECHNOL
18N1,MAR 1987—
CANADIAN ASSOCIATION OF MEDICAL RADIATION TECHNOLOGISTS
OTTAWA CANADA
CONTINUES: CANADIAN JOURNAL OF RADIOGRAPHY, RADIOTHERAPY, NUCLEAR MEDICINE.
INDEXING BEGAN WITH V18N3,AUG 1987 AND CEASED WITH V26N4,OCT 1995.
W1 CA594H 0820-5930
SR0060029 JC: CJR

HLI CANADIAN JOURNAL OF MEDICAL TECHNOLOGY
CAN J MED TECHNOL
1,1938—
CANADIAN SOCIETY OF LABORATORY TECHNOLOGISTS
HAMILTON CANADA
VOL. 44 (1982) COMPLETE IN THREE ISSUES. VOL. 45 (1983) PUBLISHED IN FIVE ISSUES.
INDEXING BEGAN WITH V42N1,FEB 1980 AND CEASED WITH V57N4,NOV 1995.
W1 CA594L 0008-4158
C04160000 JC: CIQ

HLI CANADIAN JOURNAL OF OCCUPATIONAL THERAPY. REVUE CANADIENNE D ERGOTHERAPIE
CAN J OCCUP THER
6N2,1939—
CANADIAN ASSOCIATION OF OCCUPATIONAL THERAPY
TORONTO CANADA
CONTINUES THE CANADIAN JOURNAL OF OCCUPATIONAL THERAPY AND PHYSIOTHERAPY.
ISSUES FOR 1939-WINTER 1972 HAVE ENGLISH TITLE ONLY. ISSUED 1939-AUTUMN 1963 BY THE CANADIAN ASSOCIATION OF OCCUPATIONAL THERAPY. QUARTERLY, VOL.1-45 (1934-1978); 5 ISSUES PER YEAR, VOL.46-(1979-).
INDEXING BEGAN WITH V41N4,WINTER 1975 AND CEASED WITH V62N5,DEC 1995.
W1 CA597 0008-4174
C04220000 JC: CJ0

HLI CHILDRENS HEALTH CARE
CHILD HEALTH CARE
9N2,FALL 1980—
LAWRENCE ERLBAUM ASSOICIATES
HILLSDALE NJ UNITED STATES
JOURNAL OF THE ASSOCIATION FOR THE CARE OF CHILRENS HEALTH.

Titles No Longer Indexed, January-February 1996

RUNNING TITLE: JACCH. IMPRINT VARIES. CONTINUES: JOURNAL OF THE ASSOCIATION FOR THE CARE OF CHILDRENS HEALTH.
INDEXING BEGAN WITH V9N2,FALL 1980 AND CEASED WITH V24N4,FALL 1995.
W1 CH696D 0273-9615
C18485000 JC: CZX

HLI EVALUATION AND THE HEALTH PROFESSIONS
EVAL HEALTH PROF
1N1,SPRING 1978—
SAGE PUBLICATIONS
NEWBURY PARK CA UNITED STATES
INDEXING BEGAN WITH V1N1,SPRING 1978 AND CEASED WITH V18N4,DEC 1995.
W1 EV13F 0163-2787
E17340000 JC: ENK

HLI FDA CONSUMER
FDA CONSUM
6N6,1972—
U.S. FOOD AND DRUG ADMINISTRATION
WASHINGTON DC UNITED STATES
CONTINUES FDA PAPERS.
INDEXING FOR HLI BEGAN WITH V8N10,DEC 1974-JAN 1975 AND CEASED WITH V29N10,DEC 1995. INDEXING FOR POPLINE BEGAN WITH V9N1,FEB 1975 AND CEASED WITH V15N5,JUN 1981.
W1 F203E 0362-1332
F02860000 JC: FOK

HLI FORMULARY
FORMULARY
30N5,MAY 1995—
ADVANSTAR COMMUNICATIONS
CLEVELAND OH UNITED STATES
CONTINUES: HOSPITAL FORMULARY. THE JOURNAL FOR MANAGED CARE AND HOSPITAL DECISION MAKERS.
INDEXING BEGAN WITH V30N5,MARY 1995 AND CEASED WITH V30N12,DEC 1995.
W1 HO779 1082-801X
SR0085162 JC: CFO

HLI HOSPITAL PHARMACY
HOSP PHARM
1,1966—
J B LIPPINCOTT
PHILADELPHIA PA UNITED STATES
INDEXING BEGAN WITH V10N1,JAN 1975 AND CEASED WITH V30N12,DEC 1995.
W1 HO869B 0018-5787
H19700000 JC: G98

HLI INTERNIST
INTERNIST
1,1959—
AMERICAN SOCIETY FOR INTERNAL MEDICINE
WASHINGTON DC UNITED STATES
"HEALTH POLICY IN PRACTICE."
IMPRINT VARIES. "THE MAGAZINE OF THE AMERICAN SOCIETY OF INTERNAL MEDICINE."
INDEXING BEGAN WITH V18N11,DEC 1977-JAN 1978 AND CEASED WITH V36N10,NOV-DEC 1995.
W1 IN962E 0020-9546
I36980000 JC: GVZ

HLI JOURNAL OF THE CANADIAN DIETETIC ASSOCIATION
J CAN DIET ASSOC
1,1939—
CANADIAN DIETETIC ASSOCIATION
TORONTO CANADA
INDEXING BEGAN WITH V40N1,JAN 1979 AND CEASED WITH V56N4, WINTER 1995.
W1 JO915P 0008-3399
J15080000 JC: HM9

HLI JOURNAL OF HEALTH CARE BENEFITS
J HEALTH CARE BENEFITS
1N1,SEP/OCT 1991-4N3,JAN-FEB 1995
WARREN, GORHAM AND LAMONT
BOSTON MA UNITED STATES
INDEXING BEGAN WITH V3N1,SEP/OCT 1993.
W1 JO67BGE 1057-5073
SR0072554 JC: BVU

IM PATHOLOGY ANNUAL
PATHOL ANNU
1,1966-30,1995
APPLETON AND LANGE
EAST NORWALK CT UNITED STATES
INDEXING BEGAN WITH V5,1970.
W1 PA962H 0079-0184
P05080000 JC: OS2

HLI PHYSIOTHERAPY CANADA
PHYSIOTHER CAN
24N3, 1972-
CANADIAN PHYSIOTHERAPY ASSOCIATION
TORONTO CANADA
FREQUENCY VARIES. CONTINUES JOURNAL OF THE CANADIAN PHYSIOTHERAPY ASSOCIATION.
RUNNING TITLE: JOURNAL OF THE CANADIAN PHYSIOTHERAPY ASSOCIATION. VOLS. 24N3 -38N1 HAVE TITLE ALSO IN FRENCH.
INDEXING BEGAN WITH V31N1,JAN-FEB 1979 AND CEASED WITH V47N4,FALL 1995.
W1 PH968 0300-0508
P15480000 JC: PCP

HLI RESTAURANTS AND INSTITUTIONS
RESTAURANTS INST
88N1,JAN 1981—
CAHNERS PUBLISHING CO.
CHICAGO IL UNITED STATES
CONTINUES INSTITUTIONS. THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V88N1,JAN 1981 AND CEASED WITH V27N12,DEC 1995.
AHA 0273-5520
R27010000 JC: R8M

IDL STOMATOLOGIIA
STOMATOLOGIIA (SOFIIA)
1952-1963;46,1964-75N4,1993
IZDAVA BULGARSKOTO NAUCHNO DRUZHESTVO PO STOMATOLOGIIA
SOFIA BULGARIA
FORMERLY ZUBOLEKARSKI PREGLAED. IMPRINT VARIES. ADDED TITLE VARIES. FIRST TWO ISSUES FOR 1992 MISNUMBERED AS VOL. 20; VOL. NUMBERING CORRECTED BEGINNING WITH THIRD ISSUE.
INDEXING BEGAN WITH V51N1,JAN-FEB 1969.
W1 ST679 0491-0982
S42600000 JC: V1P

HLI SURGICAL TECHNOLOGIST
SURG TECHNOL
11,JAN/FEB 1979—
COYLE PUBLICATIONS
LITTLETON CO UNITED STATES
FREQUENCY VARIES. CONTINUES: OR TECH.
INDEXING BEGAN WITH V11N1,JAN-FEB 1979 AND CEASED WITH V27N12,DEC 1995.
W1 SU768 0164-4238
S48770000 JC: VB2

IDL UPDATE IN PEDIATRIC DENTISTRY
UPDATE PEDIATR DENT
1N1,SEP 1987-4N4,OCT 1991
PROFESSIONAL AUDIENCE COMMUNICATIONS
YARDLEY PA UNITED STATES
INDEXING BEGAN WITH V1N1,SEP 1987.
W1 UP518D 0897-876X
SR0064811 JC: AGA

The Following Titles Have Been Recataloged:

Monographs / National Cancer Institute (Title Abbreviation of Monogr Natl Cancer Inst) has been recataloged with the title: Journal of the National Cancer Institute. Monographs (Title Abbreviation of J Natl Cancer Inst Monogr) All other information about this title remains the same.

IM NATIONAL CANCER INSTITUTE
MONOGRAPHS
NATL CANCER INST MONOGRAPHS
N10,1990—
U.S. NATIONAL CANCER INSTITUTE
BETHESDA MD UNITED STATES
CONTINUES: NCI MONOGRAPHS.
INDEXING BEGAN WITH N10,1990.
W1 MO567BZ 1052-6773
SR0068647 JC: ATR

Entries A. and B below have been deleted, and replaced by C.

A.

IM INTERNATIONAL JOURNAL OF MEDICAL MICROBIOLOGY
INT J MED MICROBIOL
27N1,MAY 1989-274N4,JAN 1991
GUSTAV FISCHER
STUTTGART GERMANY, WEST
CONTINUES: ZENTRALBLATT FUR BAKTERIOLOGIE, MIKROBIOLOGIE, UND HYGIENE. SERIES A, MEDICAL MICROBIOLOGY, INFECTIOUS DISEASES, VIROLOGY, PARASITOLOGY.
CONTINUED BY: INTERNATIONAL JOURNAL OF MEDICAL MICROBIOLOGY, VIROLOGY, PARASITOLOGY, AND INFECTIOUS DISEASES.
INDEXING BEGAN WITH V27N1,MAY 1989.
W1 IN769RK 0934-8840
SR0065846 JC: AC2

B.

IM INTERNATIONAL JOURNAL OF MEDICAL MICROBIOLOGY, VIROLOGY, PARASITOLOGY AND INFECTIOUS DISEASES
INT J MED MICROBIOL VIROL PARASITOL INFECT DIS
275N1,APR 1991—
GUSTAV FISCHER
STUTTGART GERMANY
CONTINUES: INTERNATIONAL JOURNAL OF MEDICAL MICROBIOLOGY.
INDEXING BEGAN WITH V275N1,1991.
W1 IN769RP 0934-8840
SR0073224 JC: BD7

C.

IM ZENTRALBLATT FUR BAKTERIOLOGIE
ZENTRALBL BAKTERIOL
271N1,1989—
GUSTAV FISCHER
STUTTGART GERMANY
CONTINUES: ZENTRALBLATT FUR BAKTERIOLOGIE, MIKROBIOLOGIE UND HYGIENE. SERIES A, MEDICAL MICROBIOLOGY, INFECTIOUS DISEASES, VIROLOGY, PARASITOLOGY.
INDEXING BEGAN WITH V271N1,1989—
W1 ZE77BDH 0934-8840
SR0073224 JC: BD7

APPENDIX A

APPENDIX B

APPENDIX C

Retrieving NLM Publications in Electronic Format

There are three ways to retrieve issues of the *NLM Technical Bulletin* electronically via Internet: ftp, gopher or e-mail. New issues are added as they go to print; look for new issues on the server during the last week of February, April, June, August, October and December. Also available electronically are updated chapters of the *Online Services Reference Manual* (OSRM) and the serials publications: *List of Serials Indexed for Online Users* (LSIOU) and *List of Journals Indexed in Index Medicus* (LJI). Monthly update information for indexed titles, routinely found at the back of each *Technical Bulletin* issue, is also included in the full electronic version of the *Technical Bulletin*. If you prefer to obtain the monthly serials update information separately, this option is also available. Instructions for retrieving any of these publications are included below.

If you prefer to get your copy of the *Technical Bulletin* routinely via ftp, gopher, or e-mail, please notify MMS so that we do not continue to mail you a *Technical Bulletin*. Use the Comment/ Concern form included in the back of any issue or send an e-mail to mms@nlm.nih.gov. Please include your User ID code.

Technical Bulletin

ftp: PostScript files
anonymous ftp to nlmpubs.nlm.nih.gov
in the directory online/techbull

gopher: PostScript files
gopher.nlm.nih.gov
in the directory Online Services/MEDLARS Information/NLM Technical Bulletin

e-mail:
Send an e-mail message to: files@mailserv.nlm.nih.gov. In the body of the message, enter the commands:

```
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END
```

Note: mmmmmm9y.ps should be substituted with the proper months and year of the *Technical Bulletin* to be e-mailed, e.g., octsep94.ps.

Note: Commands must be sent in the body of the e-mail message; anything in the subject line is ignored.

After receiving the message, the e-mail file server will mail the PostScript file mmmmmm9y.ps back to you.

Online Services Reference Manual -- Updated Chapters

ftp: WordPerfect and PostScript files
anonymous ftp to nlmpubs.nlm.nih.gov
in the directory online/medlars/manuals

gopher: WordPerfect files
gopher.nlm.nih.gov
in the directory Online Services/MEDLARS Information/Online Services Reference Manuals

NLM Serials Publications: LSIOU, LJI, and updates for indexed titles

ftp: WordPerfect, PostScript and Text files
anonymous ftp to nlmpubs.nlm.nih.gov
in the directory online/journals

gopher: WordPerfect and Text files
gopher.nlm.nih.gov
in the directory Online Services/Journal Title Lists

Questions?

ftp: ftpadmin@nlm.nih.gov
gopher: admin@gopher.nlm.nih.gov
e-mail: admin@mailserv.nlm.nih.gov

NLM Internet Directory

The following Internet addresses may be used for specific questions and comments to NLM:

Anonymous ftp Service Assistance	ftpadmin@nlm.nih.gov
Fixed-Fee and Flat-Rate Special Agreements	ginter@nlm.nih.gov
GenBank Molecular Sequence Database Information	info@ncbi.nlm.nih.gov
Gopher and e-mail File Server Assistance	admin@gopher.nlm.nih.gov
Grateful Med	gmhelp@gmedserv.nlm.nih.gov
History of Medicine Division	hmdref@nlm.nih.gov
Interlibrary Loan (ILL)/DOCLINE Assistance	ill@nlm.nih.gov
International Programs Office	siegel@nlm.nih.gov
MEDLARS Management Section	mms@nlm.nih.gov
MeSH Heading Suggestions	meshsugg@nlm.nih.gov
National Center for Biotechnology Information (NCBI)	info@ncbi.nlm.nih.gov
National Information Center on Health Services Research and Health Care Technology (HSTAR/HSTAT):	nichsr@nlm.nih.gov
Office of Public Information	publicinfo@occshost.nlm.nih.gov
Online Images from the History of Medicine	oli@nlm.nih.gov
Planning and Evaluation Office	siegel@nlm.nih.gov
Preservation Information	pres@nlm.nih.gov
Reference Assistance	ref@nlm.nih.gov
Technical Services Division	tsd@nlm.nih.gov
Toxicology Information Program	toxmail@tox.nlm.nih.gov

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MEDLARS, PDQ & TOXNET	medlars.nlm.nih.gov
Locator	locator.nlm.nih.gov
HSTAT	text.nlm.nih.gov
FTP	
MEDLARS Server	medlars.nlm.nih.gov
NLM Anonymous Server	nlmpubs.nlm.nih.gov
TOOLS	
Internet Grateful Med	http://igm.nlm.nih.gov/
NLM Home Page (HyperDOC)	http://www.nlm.nih.gov/
NLM AIDS Home Page	http://sis.nlm.nih.gov/aidswww.htm
NLM Gopher	gopher.nlm.nih.gov
e-mail Based File Server	files@mailserv.nlm.nih.gov

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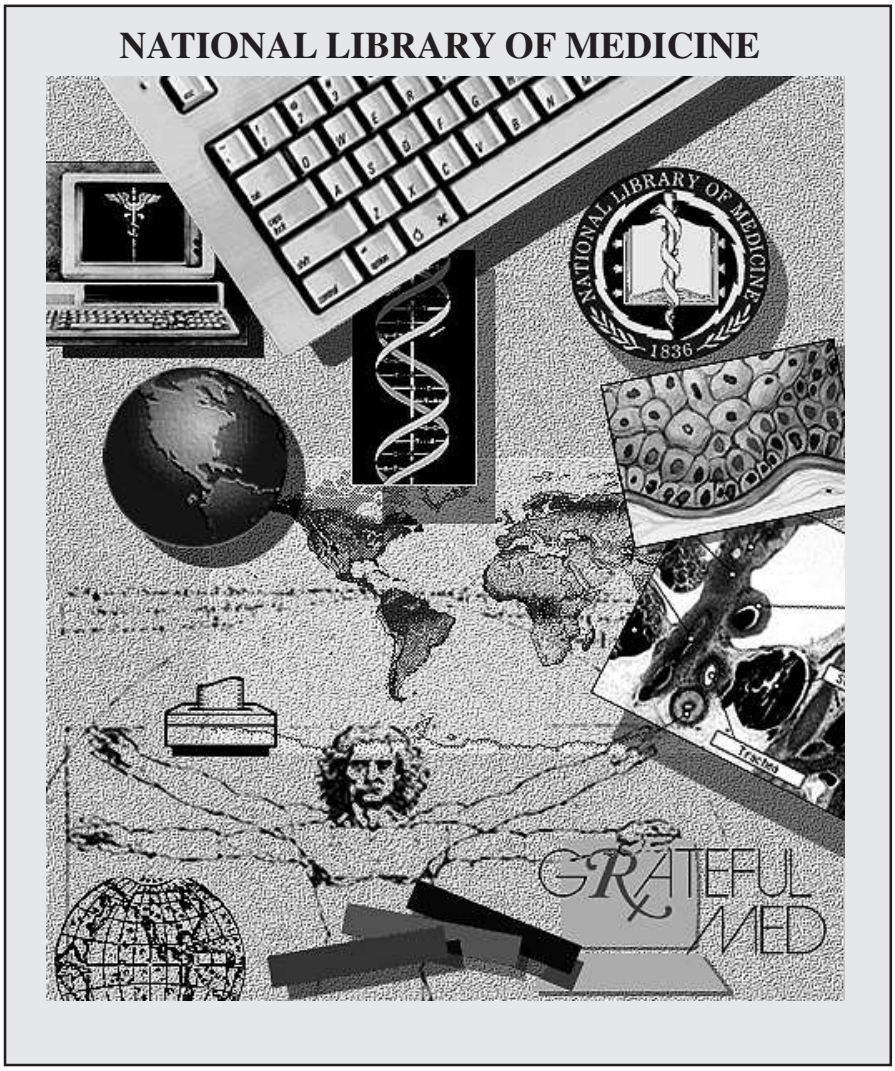

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