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HSRProj: a New Database on Health Services Research Projects in Progress

HSRProj, a new database providing access to ongoing research through grants and contracts in health services research, is now accessible via NLM's MEDLARS network. It is currently available for searching through ELHILL command language; at any USER: prompt type: **file hsrproj** to access the database; when the Grateful Med software is updated later this year HSRProj will be added to the menu of databases available for searching with a user-friendly Input form screen. The National Information Center on Health Services Research and Health Care Technology (NICHSR), which was established at NLM by the 1993 NIH Revitalization Act, coordinated the development of HSRProj.

Scope of Coverage

The HSRProj database includes records of research in progress funded by federal and private grants and contracts. HSRProj builds upon a prototype developed by staff of the Foundation for Health Services Research and the Cecil G. Sheps Center at the University of North Carolina with funding from the Pew Charitable Trusts. HSRProj contains information describing ongoing projects in health services research for use by policy makers, managers, clinicians, other decision makers, and researchers. It provides access to information about health services research in progress before results are available in a published form. HSRProj contains unique information not

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

ELHILL® COMPUTER

MEDLARS® DATABASE	TOTAL RECORDS	DATES COVERED	DATE UPDATED	UPDATE TAG
AIDSDRUGS	219		25 FEB 95	9502(EM)
AIDSLINE®*	111,665	JAN 80-JUN 95	08 APR 95	9506(EM)
AIDSTRIALS	651		08 APR 95	9412(EM)
AVLINE®	28,464	THRU APR 95	07 APR 95	
BIOETHICSLINE®	45,249	JAN 73-APR 95	01 APR 95	9504(EM)
BIOTECHSEEK	5,892	JAN 90-MAY 95	01 APR 95	9505(EM)
CANCERLIT®	1,107,709	JAN 63-APR 95	01 APR 95	9504(EM)
CATLINE®	746,529	THRU APR 95	07 APR 95	
CHEMID	267,994		06 FEB 93	
CHEMLINE®	1,258,634		10 MAR 94	9402(EM)
DENTALPROJ™	821		02 AUG 94	
DIRLINE®	17,592		03 DEC 94	
DOCUSER®	14,251		08 APR 95	
HEALTH	805,794	JAN 75-MAY 95	01 APR 95	9505(EM)
HISTLINE®	150,500	JAN 70-APR 95	08 APR 95	9504(EM)
HSRProj	1,242		01 JAN 95	
HSTAR**	1,568,564	1985-JUN 95	08 APR 95	9506(EM)
MEDLINE®***	1,124,813	JAN 92-JUN 95	08 APR 95	9506(EM)
MED90	748,681	JAN 90-DEC 91	10 DEC 94	
MED85	1,688,445	JAN 85-DEC 89	21 JAN 95	
MED80	1,388,882	JAN 80-DEC 84	21 JAN 95	
MED75	1,279,017	JAN 75-DEC 79	11 FEB 95	
MED66	1,986,354	JAN 66-DEC 74	08 APR 95	
MESH VOCABULARY FILE®	100,435	1995	08 APR 95	
NAME AUTHORITY FILE®	Removed from MEDLARS		08 APR 95	
PDQ®		THRU APR 95	03 APR 95	
POPLINE®	218,382	1970-APR 95	08 APR 95	9504(EM)
SDILINE®	34,113	MAR 95	25 MAR 95	9505(EM)
SERLINE®	85,375	THRU MAR 95		9503(EM)
TOXLINE®	1,391,231	1981-1995	08 APR 95	9504(EM)
TOXLINE65	707,146	PRE 1965-1980	30 APR 94	
TOXLIT®	1,406,230	1981-1995	08 APR 95	9504(EM)
TOXLIT65	586,405	1965-1980	01 SEP 87	

* AIDSLINE: PART 2 OF 6 FOR 9506 (EM) WEEKLY UPDATE
** HSTAR: PART 1 OF 6 FOR 9506 (EM) WEEKLY UPDATE
*** MEDLINE: PART 2 OF 5 FOR 9506 (EM) WEEKLY UPDATE

TOXNET® COMPUTER

CCRIS	6,495		07 APR 95	
DART™	23,668		07 APR 95	
EMIC	10,312		05 APR 95	
EMICBACK	75,886		04 APR 94	
ETICBACK	49,591		04 APR 94	
GENE-TOX	2,960		06 JUN 94	
HSDB®	4,493		04 APR 95	
IRIS	665		03 MAR 95	
RTECS®	128,410		13 FEB 95	
TRI87	80,359		27 MAR 95	
TRI88	87,498		27 MAR 95	
TRI89	87,350		27 MAR 95	
TRI90	86,749		24 MAR 95	
TRI91	84,853		27 MAR 95	
TRI92	82,331		27 MAR 95	
TRI93	79,984		27 MAR 95	
TRIFACTS	326		10 APR 92	

Technical Notes

Scientific Misconduct Annotation Removed

Important Notice: MEDLINE, CANCERLIT and PDQ erroneously annotated certain articles authored or co-authored by Dr. Bernard Fisher with the phrase "scientific misconduct--data to be reanalyzed." All such annotations have been removed or are being removed. We apologize for any problems or concerns this may have caused. Users should disregard those prior annotations.

MLA '95 -- NLM Invitation and Meeting Reminders

The 95th Annual Meeting of the Medical Library Association/7th International Conference on Medical Librarianship (MLA/ICML) will be held this year at the Washington Hilton. The theme is Health Information for the Global Village. Attendees of the MLA/ICML are invited to include Island F in their tour of the Global Village exhibit hall where they can visit with NLM staff and see demonstrations of various NLM products and services. The NLM exhibit at the 1995 MLA/ICML will be focusing on "NLM reaching out to the world" electronically, in person, and with new systems. Among the features at the booth are demonstrations of the Visible Human, the UMLS Knowledge Source Server, NetCoach, HSTAT, and SPACELINE, as well as the "old faithfuls." Bienvenu!

The NLM Online Users' Meeting will be a "Lunch and Learn" session on Sunday, May 7 from 12:30 p.m. until 1:15 p.m. in the Monroe Room East and West; NLM staff will discuss plans for new MEDLARS databases and features, Internet access, and other avenues NLM is exploring to expand and improve services.

A Fixed-Fee User Meeting will be held on Sunday, May 7, from 4:00 until 6:00 p.m. in the Jefferson Room East. Come if you are: seeking a solution for MEDLINE access at a fixed cost; a hospital looking for a way to sell your administration on the Internet; or interested in hearing from the experts who are using fixed-fee programs in small hospitals, large medical centers, and universitites.

The NLM Update will be held on Monday, May 8, from 10:30 a.m. - 12:00 noon in the International Ballroom West.

A SERHOLD meeting will be held on Tuesday, May 9 from 5:00 p.m. until 6:30 p.m. in the Adams Room.

Dr. Lindberg will be one of two keynote speakers at the ICML on Wednesday, May 10 from 2:45 to 4:00 p.m. following the opening ceremony. On Friday, May 12, NLM will host an International Online Users' meeting from 12:30 until 1:30 p.m. in the Cabinet Room.

MEDLINE and Backfiles Database Postings in the MeSH VOCABULARY FILE

The updated MeSH VOCABULARY FILE database postings for MEDLINE and its backfiles became available on February 8, 1995. The MEDLINE and Backfiles Database Postings give the number of postings for each MeSH descriptor and subheading for citation data through the 9503 Entry Month (EM) update. Because the postings are not updated during the year, the numbers continue to reflect the counts as of February 8, 1995 for the closed Backfiles and through the 9503 (EM) of data for the MEDLINE file. Actual MEDLINE postings, however, will increasingly diverge from the MeSH data element 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 and Backfiles postings as they appear with the records for PAIN (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 or consult Chapter 6 of the *Online Services Reference Manual*).

MH	**-**	**Pain**
MED	-	5245
MED	-	*3226
M90	-	3903
M90	-	*2462
M85	-	9310
M85	-	*5708
M80	-	7177
M80	-	*3915
M75	-	5411
M75	-	*2485
M66	-	8063
M66	-	*2947

SH	**-**	**drug therapy**
MED	-	79686
M90	-	57797
M85	-	126269
M80	-	103378
M75	-	87637
M66	-	144440

Newsletter Articles Added to AIDSLINE

Newsletter articles have been added to AIDSLINE. There are currently 35 citations with Newsletter Article (PT) that were added for the 9504 (EM) update of AIDSLINE. Newsletters will be added monthly.

Photocopies of the newsletter articles cited in AIDSLINE may be obtained from the National AIDS Clearinghouse. The address of the Clearinghouse is located in the Procurement Source (PC) field, which displays in the standard print. There is a charge of $5.00 per document plus $.05 per page over two pages for photocopies.

New AIDS Inquiries E-Mail Address

An Internet e-mail address has been established to respond to AIDS database inquiries and any other NLM AIDS information services questions. This new address has been added to the Internet

directory published in every issue of the *Technical Bulletin*. Messages may be sent to:

aids@aids.nlm.nih.gov

TRI93 Released

TRI93 (Toxic Chemical Release Inventory - 1993 Reporting Year) was added to TOXNET on March 27. There are now seven years of TRI data (TRI87-93) which can be searched for a variety of environmental release and off-site waste transfer data.

Four articles on the TRI file, parts 1, 2, 3 and 4, are in the following issues of the *Technical Bulletin*: March-April 1993, p.1, 7-13; July-August 1993, p. 7-19; March-April 1994, p. 38-45; and July-August 1994, p. 25-32. This series of articles reviews TRI search features.

1995 MeSH Supplementary Chemical Records Available from NTIS

The 1995 *Medical Subject Headings--Supplementary Chemical Records* is now available from the National Technical Information Service (NTIS). The publication contains records of 23,571 chemicals with 49,788 synonyms for them which, since 1970, have been mentioned in a significant way in journals indexed for MEDLINE and have been incorporated as a subset of the MeSH file. Note that these chemicals are in addition to the thousands of chemicals that are formal MeSH headings in Category D - Chemicals and Drugs of MeSH. To order documents from NTIS, you may use the order form in Appendix C of the January-February 1995 issue of the *Technical Bulletin*. Orders should be sent to:

National Technical Information Service (NTIS)
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22161

Medical Subject Headings--Supplementary Chemical Records, 1995
Order Number:
PB95-965001
Hardcopy Price:
$ 50.00 (U.S./Canada/Mexico)
$100.00 (other countries)
Microfiche Price:
$23.00 (U.S./Canada/Mexico)
$46.00 (other countries)

Individuals with an NTIS deposit account or a major credit card who wish to order publications by phone may call 800-423-9255 or 703-487-4650. There is a $3.00 (U.S./Canada/Mexico) shipping and handling charge required for each order ($4.00 for other countries). Remittance or deposit account numbers should be sent with all mail orders. If you must order first and be invoiced, there is an additional charge of $7.50 for orders placed with a purchase order.

Additional *Abridged Index Medicus* Titles

The *Abridged Index Medicus* (AIM) subset of titles has increased from 119 titles to 121 titles in 1995. One new AIM title, *Archives of Disease in Childhood. Fetal and Neonatal Edition*, has separated from its parent title, *Archives of Disease in Childhood*. Another AIM title, *Journal of Gerontology*, is replaced by two new titles: *Journals of Gerontology. Series A, Biological Sciences and Medical Sciences* and *Journals of Gerontology. Series B, Psychological Sciences and Social Sciences.* There has also been a title change in the AIM title list: *Journal of Trauma* has changed its name to *Journal of Trauma, Injury, Infection, and Critical Care*. Please note that the List of Journals Indexed found in the front pages of monthly editions of AIM for 1995 will now reflect both the new titles and the old titles that may still have entries in 1995 AIM. However, there are only 121 unique English-language journal titles currently indexed for AIM.

Grateful Med BBS - Change In Service

Effective March 3, 1995, mail and messaging services were discontinued on the Grateful Med Bulletin Board System (GM-BBS). Bulletins and files, however, are still available for downloading. With the advent of NLM's two Internet e-mail addresses for questions from users, the consolidation of Grateful Med questions to the MEDLARS Service Desk or e-mail addresses is a more efficient way for NLM to provide answers. Phone assistance for Grateful Med users is provided by the MEDLARS Service Desk staff (800-638-8480; Monday through Friday, 8:30 a.m. - 11 p.m. ET, Saturday 8:30 a.m -5 p.m. ET). Users with Internet e-mail accounts may also send technical Grateful Med questions to gmhelp@gmedserv.nlm.nih.gov or NLM database search strategy questions to mms@nlm.nih.gov.

Updated MEDLINE and MeSH Pocket Cards

Updated MEDLINE and MeSH pocket cards for 1995 are available from your Regional Medical Library (RML). Supplies may be limited, but the pocket cards are not copyrighted and may be reproduced freely. Please call at your RML 800-338-7657 to receive your 1995 copy.

1994 *Technical Bulletin* Index

The 1994 Index to the *NLM Technical Bulletin* is available via anonymous ftp from nlmpubs.nlm.nih.gov in the directory online/medlars/techbull/94index.ps. To receive a paper copy of the index mail or fax a request to:

1994 *Technical Bulletin* Index
MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894
Fax: 301-496-0822

Hospital and Health Administration Index

The American Hospital Association (AHA) Resource Center announces the availability of the first 1995 issue (Volume 51) of the *Hospital and Health*

Administration Index . Formerly named the *Hospital Literature Index*, the *Index* is produced from NLM's Health Planning and Administration (HEALTH) database. It is the primary printed guide to literature on hospital and health services administration, including health systems, health care policy and reform, integrated community delivery networks, health planning, and health services research. The *Index* will be published in three issues, with the third issue being an annual cumulation.

Single quarterly issues, including the casebound annual cumulation, will not be sold at a price less than the annual subscription rate. The order numbers and prices follow. For your convenience, an order form is included as Appendix A of this issue of the *Technical Bulletin*.

Hospital and Health Administration Index
1995 (Subscription)
Item Number:
RCL-M0940

Price:
$255.00 (AHA member)
$330.00 (non-member)

Billed orders should be sent to:

Hospital and Health Administration Index
American Hospital Publishing, Inc.
737 North Michigan Avenue, Suite 700
Chicago, IL 60611
Phone: 800-621-6902 or 312-440-6800
Fax: 312-944-4232

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

1995 Guide to POPLINE Keywords Available -- Corrected Information

The fourth edition of *A User's Guide to POPLINE Keywords* is considered a must for both novice and expert POPLINE users. Searching with POPLINE keywords (KW) is the key to quicker, more thorough and comprehensive POPLINE searches. Each keyword is presented with a definition and broader/narrower keywords. In addition, a special index alphabetizes each significant word or keyword phrase to help a searcher quickly identify appropriate keywords.

The 1995 *User's Guide to POPLINE Keywords* is available for $50.00 (pages only, no binder) or $60 (pages and binder) from The Johns Hopkins University. Please note, the price information in the January-February 1995 *Technical Bulletin* , page 3, for the *User's Guide* is incorrect. Requests for the *User's Guide* should be sent to:

User's Guide to POPLINE Keywords
Center for Communications Programs
Johns Hopkins School of Public Health
111 Market Place, Suite 310
Baltimore, MD 21202-4024 ❑

FTS2000 Transition Schedule

Reminder: NLM is transitioning from the current telecommunications networks SprintNet (Telenet), TYMNET, and CompuServe to the new FTS2000 network. Please begin using the FTS2000 number 800-525-0216 according to the schedule below. If the date for your state has passed, you may begin using the new number immediately.

The article on pages 23-26 of the November-December 1994 *Technical Bulletin* explains the transition process in detail, including the new login procedure that must be used with the FTS2000 number. Grateful Med users need to select FTS2000 in the SETUP screen and type in 800-525-0216.

March and April 1995 - Regions 1 and 2
Users in the states of Alabama, Delaware, Florida, Georgia, Maryland, Mississippi, New Jersey, New York, North Carolina, Pennsylvania, South Carolina, Tennessee, Virginia, West Virginia, the District of Columbia, Puerto Rico and the U.S. Virgin Islands should transition beginning in March from the present networks to the new FTS2000 service.

May and June 1995 - Regions 3 and 4
Users in the states of Colorado, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Utah, Wisconsin, and Wyoming should transition to the new FTS2000 AT&T network during May and June.

July and August 1995 - Regions 5 and 6
Users in the states of Alaska, Arkansas, Idaho, Louisiana, Montana, New Mexico, Oklahoma, Oregon, Texas, and Washington should transition to the FTS2000 network in July and August.

September and October 1995 - Regions 7 and 8
Users in the states of Arizona, California, Connecticut, Hawaii, Maine, Massachusetts, Nevada, New Hampshire, Rhode Island, Vermont, and American Samoa, Guam and military posts should transition to the new FTS2000 AT&T network.

If you have any difficulty with FTS2000, contact the MEDLARS Service Desk at 800-638-8480 or mms@nlm.nih.gov for assistance.

continued from page 1

easily located previously within the health services research community. HSRProj made its debut January, 1995 with 1,242 records and will be updated quarterly (May, August, November, February) with up to 1,500 records added annually.

Indexed Data

Users can retrieve names of performing organizations and sponsoring agencies, names and addresses of the principal investigator, beginning and ending years of the project, level of funding, information about study design and methodology including demographic characteristics of the study group, number of subjects in the study population, population base of the study sample and source of the project data. Records are indexed with NLM's Medical Subject Headings (MeSH) and, when available, CRISP keywords. CRISP (Computer Retrieval of Information On Scientific Projects), a database developed by the National Institutes of Health (NIH) Division of Research Grants, contains information on research projects supported by the U. S. Public Health Service. Also, project descriptions are located in the Abstract field whenever available. A unit record is shown in Figure 1 and a sample record is shown in Figure 2.

Funding Agencies

Records cover both grants and contracts awarded by several major public and private funding agencies including: the Agency for Health Care Policy and Research (AHCPR), Health Care Financing Administration (HCFA), National Institute on Aging (NIA), National Institute of Nursing Research (NINR), National Institute of Mental Health (NIMH), National Institute on Alcohol Abuse and Alcoholism (NIAAA), National Institute on Drug Abuse (NIDA), DHHS Office of Rural Health Policy, Department of Veterans Affairs, Commonwealth Fund, Pew Charitable Trusts, Robert Wood Johnson Foundation, John A. Hartford Foundation, Henry J. Kaiser Family Foundation, and the William T. Grant Foundation.

HSRPROJ Unit Record

CATEGORY QUALIFIER	ELEMENT NAME	SEARCH STATUS	PRINT	PRINT FULL	PRINT DL
AB	ABSTRACT	TW	N	N	Y
AD	ADDRESS		N	Y	Y
AW	AWARD TYPE	*	N	N	Y
CY	COUNTRY	*	N	N	Y
DSO	DATA SOURCE	*	N	Y	Y
EM	ENTRY MONTH	*	N	N	Y
EML	ELECTRONIC MAIL ADDRESS		N	N	Y
FGC	FUNDING CURRENT YEAR		N	N	Y
FGCR	FUNDING CURRENT YEAR RNG	*,R	N	N	N
FG	FUNDING TOTAL		N	N	Y
FGR	FUNDING TOTAL RANGEABLE	*,R	N	N	N
Y2	FINAL YEAR	*,R	N	N	Y
ID	IDENTIFICATION NUMBER	*	Y	Y	Y
Y1	INITIAL YEAR	*,R	N	N	Y
IR	INVESTIGATORS	*	Y	Y	Y
KW	KEYWORDS	*,TW,KF	N	N	Y
LR	LAST REVISION DATE	*,R	N	N	Y
MH	MESH HEADING	*,MHF,TW	N	N	Y
MN	MESH TREE NUMBER	*	N	N	N
NSU	NUMBER OF SUBJECTS	*	N	N	Y
PO	PERFORMING ORGANIZATION	*,TW	Y	Y	Y
PBA	POPULATION BASE	*,TW	N	N	Y
SI	SECONDARY SOURCE ID	*	Y	Y	Y
STS	STATES	*	N	N	Y
STU	STUDY DESIGN	*	N	Y	Y
SP	STUDY POPULATION	*	N	N	Y
SH	SUBHEADING	*	N	N	N
SA	SUPPORTING AGENCY	*,TW	Y	Y	Y
FAX	TELEFACSIMILE		N	N	Y
TEL	TELEPHONE NUMBER		N	Y	Y
TI	TITLE	TW,TF	Y	Y	Y
UI	UNIQUE IDENTIFIER	*	N	N	N
ZP	ZIP CODE	*	N	N	Y

KEY:

*	=	DIRECTLY SEARCHABLE	N = NO
KF	=	KEYWORDS FIELD TEXT WORDS	
TW	=	TEXT WORD SEARCHABLE	Y = YES
TF	=	TITLE FIELD TEXT WORDS	R = RANGEABLE
MHF	=	MESH HEADING FRAGMENTS	

NOTES:

EM is a four-digit number in the format YYMM. It is used as an update tag.
Y1 and Y2 are four-digit numbers in the format of YYMM.
AD is principle investigator's address.
Print AR is also available for this file. It prints the SI, TI, ID, IR, AB, PO, and SA fields.

Figure 1 - HSRProj Unit Record

Sample HSRProj Record in PRINT DL INDENTED Format

SECONDARY SOURCE ID	HSR/93210050
TITLE	National Health Service Corps scholarship recipient retention study
IDENTIFICATION NUMBER	CSR000007-01
INVESTIGATORS	Hart L Gary
ADDRESS	WAMI Rural Health Research Center, Department of Family Medicine, HQ-30, University of Washington, 3747 15th Avenue Northeast, #202, Seattle, Washington 98195
TELEPHONE NUMBER	IR: 206-685-0401 ; PO: 206-685-0401
TELEFACSIMILE	206-685-0610
ELECTRONIC MAIL ADDRESS	hart@fammed.washington.edu
PERFORMING ORGANIZATION	WAMI Rural Health Research Center
DATA SOURCE	AMA, NHSC
POPULATION BASE	National
NUMBER OF SUBJECTS	6,300
STUDY POPULATION	NHSC allopathic physician scholarship recipients graduating from medical schools for the years 1975 through 1983
SUPPORTING AGENCY	Office of Rural Health Policy
AWARD TYPE	Grant
INITIAL YEAR	9201
FINAL YEAR	9601
FUNDING TOTAL	$1,657,077
FUNDING CURRENT YEAR	$315,568
STATE	WA
ZIP CODE	98195
COUNTRY	United States
MESH HEADING	PHYSICIANS, FAMILY ; RURAL HEALTH ; FELLOWSHIPS AND SCHOLARSHIPS; SPECIALTIES, MEDICAL ; UNITED STATES
ABSTRACT	There is growing concern over the continued scarcity of rural physicians and the effectiveness of federal, state, and local programs in producing primary care physicians who locate and remain in rural locales. This study examined the distribution and retention of 6,300 National Health Service ...
ENTRY MONTH	9310

Figure 2 - Sample HSRProj Record

Searching Tips

The NEIGHBOR (NBR) command is useful for searching HSRProj. Because records are provided by the funding agencies with no name authority work done by NLM, personal and organizational names may vary from record to record. For example, as shown in Figure 3 on the following page, an investigator's name is entered with and without a middle initial; however, the surname is always the first entry in the Investigators (IR) field. Use the NEIGHBOR command to enter the index and then select the number(s) containing the items you want. Figures 3 through 6 illustrate the various ways in which the NEIGHBOR command can be used in this database.

Future Plans

An update to the IBM PC and Macintosh versions of Grateful Med that will include an Input screen for HSRProj will be available upon request from NICHSR in the summer of 1995. Contact NICHSR at the address below if you would like to receive the update when it becomes available. For questions regarding HSRProj, please contact the NICHSR at: e-mail: nichsr@nlm.nih.gov or 800-272-4787 (Select 1,6,3,2) or 301-496-0176. ❑

--prepared by Catherine Roos Selden National Information Center on Health Services Research and Health Care Technology (NICHSR)

```
SS 1 /C?
USER:
nbr defriese g

PROG:
SELECT #  POSTINGS  TERM
 1   1   DEFORMITY (TF)
 2   1   DEFORMITY (TW)
 3   1   DEFRIESE GORDON (IR)
 4   2   DEFRIESE GORDON H (IR)
 5   2   DEGENERATIVE (TW)
UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:
sel 3-4

PROG:
SS (1) PSTG (3)

USER:
prt indented 1
PROG:
1
SECONDARY SOURCE ID          CRISP/93202510
TITLE                        Program on health research for older rural populations
IDENTIFICATION NUMBER        P20AG09648, 03
INVESTIGATORS                DEFRIESE GORDON H
PERFORMING ORGANIZATION      Cecil G. Sheps Center for Health Services
SUPPORTING AGENCY            National Institute on Aging (NIA)
```

- **IR is the abbreviation for the Investigator field.**
- **Select both line entries for Defriese Gordon.**
- **Print indented format includes the full field name.**

Figure 3 - Using the NEIGHBOR (NBR) Command to Search for an Investigator's Name

```
SS 1 /C?
USER:
nbr university of california

PROG:

SELECT #  POSTINGS  TERM
1     6    UNIVERSITY OF ARIZONA (PO)
2     5    UNIVERSITY OF ARKANSAS MED SCIS LTL ROC (PO)
3     1    UNIVERSITY OF CALIFORNIA (PO)
4     1    UNIVERSITY OF CALIFORNIA AT SAN FRANCIS (PO)
5     3    UNIVERSITY OF CALIFORNIA DAVIS (PO)
UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:
down 10
PROG:

SELECT #  POSTINGS  TERM
6       1   UNIVERSITY OF CALIFORNIA IRVINE (PO)
7      35   UNIVERSITY OF CALIFORNIA LOS ANGELES (PO)
8       7   UNIVERSITY OF CALIFORNIA SAN DIEGO (PO)
9      13   UNIVERSITY OF CALIFORNIA SAN FRANCISCO (PO)
10      2   UNIVERSITY OF CALIFORNIA SAN FRANCISCO, (PO)
11      1   UNIVERSITY OF CALIFORNIA, BERKELEY, SCH (PO)
12      1   UNIVERSITY OF CALIFORNIA, DAVIS (PO)
13      1   UNIVERSITY OF CALIFORNIA, LOS ANGELES (PO)
14      1   UNIVERSITY OF CALIFORNIA, LOS ANGELES, (PO)
15      3   UNIVERSITY OF CALIFORNIA, SAN FRANCISCO (PO)
UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:
```

- **As seen below there are many different entries for this University. All names are indexed as they are submitted by the Sponsoring Agency.**

Figure 4 - Using the NBR Command to Search for an Organization (the University of California) Performing Research

```
down 10
PROG:

SELECT #  POSTINGS  TERM
16   1    UNIVERSITY OF CALIFORNIA, SF (PO)
17   4    UNIVERSITY OF CHICAGO (PO)
18   1    UNIVERSITY OF CHICAGO, IRVING B. HARRIS (PO)
19   3    UNIVERSITY OF COLORADO HEALTH SCIENCES (PO)
20   4    UNIVERSITY OF COLORADO HLTH SCIENCES CT (PO)
21   1    UNIVERSITY OF COLORADO SCIENCES CENTER, (PO)
22   4    UNIVERSITY OF CONNECTICUT HEALTH CENTER (PO)
23   1    UNIVERSITY OF CONNECTICUT STORRS (PO)
24   1    UNIVERSITY OF DELAWARE (PO)
25   1    UNIVERSITY OF DENVER (PO)
UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:
sel 3-16

PROG:
SS (1) PSTG (71)

SS 2 /C?
USER:
prt 1-2

1
SI   - CRISP/93209590
TI   - Pain—Bioethical, clinical and quality of life judgement
ID   - R03NR02831, 01
IR   - OMERY ANNA K
PO   - UNIVERSITY OF CALIFORNIA LOS ANGELES
SA   - National Center for Nursing Research (NCNR)

2
SI   - CRISP/93209540
TI   - Caring for pregnant women—Malama Na wahine hapai
ID   - R18NR02678, 03
IR   - AFFONSO DYANNE D
PO   - UNIVERSITY OF CALIFORNIA SAN FRANCISCO
```

Figure 4 - Using the NBR Command to Search for an Organization (the University of California) Performing Research cont

```
SA   - National Center for Nursing Research (NCNR)
SS 1 /C?
USER:
nbr ahcpr

PROG:

SELECT #  POSTINGS  TERM
1    1       AHCCS (TF)
2    1       AHCCS (TW)
3    282     AHCPR (TW)
4    281     AHCPR (SA)
5    1       AHSR (TW)

UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:
sel 4

SS (1) PSTG (281)

SS 2 /C?
USER:
prt 1
PROG:

1
SI   -   CRISP/93209780
TI   -   Retention of physicians in community health centers
ID   -   R01HS07053, 02
IR   -   DAVIDSON STEPHEN M
PO   -   JOHN SNOW, INC
SA   -   Agency for Health Care Policy and Research (AHCPR)
```

- **Select the Supporting Agency (SA) field to retrieve citationswith AHCPR cited in that capacity.**

Figure 5 - Using the NBR Command to Locate AHCPR as the Funding Agency

```
SS 1 /C?
USER:
nbr minorities

PROG:

SELECT #  POSTINGS  TERM
1       1     MINOR (MHF)
2       9     MINOR (TW)
3       2     MINORITIES (TF)
4      11     MINORITIES (TW)
5      12     MINORITY (TF)
UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:
down 10
PROG:

SELECT #  POSTINGS  TERM
6      26     MINORITY (MHF)
7      49     MINORITY (TW)
8       6     MINORITY GROUP (KW)
9      26     MINORITY GROUPS (MH)
10      5     MINORITY HEALTH PROFESSIONAL (KW)
11      1     MINORS (TW)
12      1     MINTER (TW)
13      1     MINUS (TW)
14      5     MINUTE (TW)
15      4     MINUTES (TW)
UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:
sel 3-10

PROG:
SS (1) PSTG (51)

SS 2 /C?
USER:
prt 3-4

PROG:

3
SI  -   CRISP/93209550
TI  -   Rural Oregon minority prenatal case management project
ID  -   R18NR02685, 03
IR  -   BURTON DEBORAH
PO  -   OREGON HEALTH DIVISION
SA  -   National Center for Nursing Research (NCNR)


4
SI  -   CRISP/93209240
TI  -   Minority use of long-term care— Method and meaning
ID  -   R01AG11285, 01
IR  -   MILLER BAILA H
PO  -   UNIVERSITY OF ILLINOIS AT CHICAGO
SA  -   National Institute on Aging (NIA)
```

- **Search the index for any occurrence of the word**
- **TF = a word in a title only**
- **TW = a word in a title, abstract, CRISP keyword, MeSH term, performing organization, or sponsoring agency**
- **Displays the next 10 index entries to the screen**
- **MHF = MeSH heading fragment**
- **KW = CRISP Keyword**
- **MH is a complete MeSH heading**
- **Selects all occurrences of minorities or minority from index**

Figure 6 - Using the NBR Command to Find Citations on Research Involving Minorities

HSTAT Update

In April 1994, NLM announced the availability of HSTAT (Health Services/ Technology Assessment Text) -- a free, electronic service which provides access to the full-text of selected health guidelines. Developed by the Information Technology Branch of the Lister Hill Center, HSTAT is a major component of the expanded health services research information program coordinated by NLM's National Information Center on Health Services Research and Health Care Technology (NICHSR). See related stories on HSTAR, pages 13-14, and HSRProj, pages 1, 6-10, in this issue.

Accessing HSTAT

To accommodate users with a range of computing and communications environments, HSTAT is available via a number of different electronic access methods. (See Figure 1 for a summary of the technical details.)

The NLM Full-Text Retrieval System (FTRS) provides a menu-driven interface to the text of the guidelines, a table of contents for each document from which a particular section may be selected, and the ability to search by words or phrases. It is accessed on average about 160 times per month by modem and 260 times per month over the Internet.

NLM also provides access to HSTAT through its World-Wide Web (WWW) servers. Users must have a Web client such as Mosaic, Netscape, etc. (Mosaic for Unix, Macintosh, and PC Windows platforms is available at no charge from NCSA [National Center for Supercomputing Applications] through anonymous ftp to ftp.ncsa.uiuc.edu.) Web clients provide access to hypertext documents composed of text, images, and sound and make it possible to view, print, and download the text, graphics, and tables of guidelines in a form which is similar to the printed copy. The URL for the HSTAT home page is http://text.nlm.nih.gov, or you may get to HSTAT from NLM's HyperDoc home page (as described in Figure 1). HSTAT on the World-Wide Web is accessed on average by 3,100 hosts per month. Later this year, the WWW version will also make use of the basic retrieval capabilities of NLM's Full-Text Retrieval System.

In addition to the interactive access to the contents of HSTAT provided by the NLM FTRS or WWW, users may also use ftp (to nlmpubs.nlm.nih.gov) or gopher (to gopher.nlm.nih.gov) to transfer the text of particular guidelines to their local systems. Web clients also support user-friendly ftp and gopher clients from within the WWW. The URLs to the NLM ftp and Gopher files are, respectively, ftp://nlmpubs.nlm.nih.gov and gopher://gopher.nlm.nih.gov. WWW access to both the NLM ftp and Gopher servers is also available on the HSTAT home page. The 444 available HSTAT document files were accessed via ftp and gopher nearly 25,000 times between May and December 1994.

HSTAT Databases

Since its debut nearly a year ago, much information has been added to HSTAT. It now includes:

- **AHCPR-Supported Guidelines**

The Agency for Health Care Policy and Research (AHCPR) supports development of Clinical Practice Guidelines, Quick Reference Guides for Clinicians, and Consumer Versions for patients and their families. Figure 2 provides the list of clinical conditions currently covered in the three types of AHCPR-supported documents found in HSTAT.

- **NIH Documents**

Consensus Development Conference Statements and Technology Assessment Workshop Reports are prepared and distributed under the auspices of OMAR, the Office of Medical Applications of Research of the National Institutes of Health. HSTAT currently includes nearly 120 OMAR documents dating from 1977-1995.

- **ATIS**

The HIV/AIDS Treatment Information Service (ATIS), offered through the Centers for Disease Control's (CDC) National AIDS Clearinghouse, is a collaborative project of the Public Health Service to provide access to federally approved treatment guidelines and recommendations. ATIS guidelines are now available online in HSTAT. Voice access to reference specialists who will search HSTAT (and other of NLM's AIDS-related databases, such as AIDSLINE) is available at 1-800-HIV-0440. A phone call to ATIS can also provide access to other related Public Health Service information services including: the CDC National AIDS Hotline; the CDC National AIDS Clearinghouse; the AIDS Clinical Trials Information Service; the HRSA-sponsored Warmline (treatment information for physicians only); the SAMHSA National Drug Information, Treatment and Referral Hotline (information on drug treatment and community resources); and the SAMHSA National Clearinghouse for Alcohol and Drug Information.

For additional information on HSTAT or any of the Health Services Research Information Program products and services produced by NLM, contact:

National Information Center on Health Services Research and Health Care Technology (NICHSR)
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894
E-mail: nichsr@nlm.nih.gov
Phone: 800-272-4787 (Select 1,6,3,2) or 301-496-0176
NICHSR Home Page:
http://www.nlm.nih.gov/nichsr.dir/nichsr.html ❑

--Prepared by Marjorie A. Cahn
National Information Center on Health Services Research and Health Care Technology (NICHSR)

- **To Access HSTAT via NLM's FTRS (Full-Text Retrieval System):**

(1) Users of the PC version of Grateful Med (6.0 or greater) may obtain a script that will load a Grateful Med menu option for HSTAT; contact NICHSR to obtain a free disk copy (specify 3.5" or 5.25"), or ftp the script from the nlmpubs/hstat/gmhstat directory on nlmpubs.nlm.nih.gov. This script will accommodate modem access only. (If you use a Novell communication server, or if you use the Internet and do not have a modem locally attached to your computer, or if you are using Grateful Med for the Macintosh, you should use the other options for access to HSTAT outlined below.)

or

(2) telnet to text.nlm.nih.gov

or

(3) dial 800-952-4426 (This method is designed for users with a modem but neither the PC version of Grateful Med nor Internet.)

Note: For (2) and (3) above, users a) login as hstat or HSTAT, and b) emulate a VT100 or VT102 terminal.

Internet users have three additional ways to access HSTAT, each with different functions:

- **World-Wide Web (WWW):** Specify the URL for NLM's HyperDoc home page: http://www.nlm.nih.gov/, select NLM Online Information Services, and then select HSTAT
- **File Transfer Protocol (FTP):** ftp to nlmpubs.nlm.nih.gov and obtain HSTAT documents from the hstat directory
- **NLM Gopher:** Once connected to the NLM Gopher server (gopher.nlm.nih.gov), select HSTAT from the menu

Figure 1 - Accessing HSTAT

Guideline Title	Print Release Date
1. Acute Pain Management	March 5, 1992
2. Urinary Incontinence In Adults	March 23, 1992
3. Pressure Ulcers in Adults	March 18, 1992
4. Cataract in Adults	February 25, 1995
5. Depression in Primary Care	April 14, 1993
6. Sickle Cell Disease	April 27, 1993
7. Early HIV Infection	January 20, 1994
8. Benign Prostatic Hyperplasia	February 8, 1994
9. Management of Cancer Pain	March 2, 1994
10. Unstable Angina	March 15, 1994
11. Heart Failure	June 28, 1994
12. Otitis Media with Effusion	July 14, 1994
13. Quality Mammography	October 19, 1994
14. Acute Low Back Problems in Adults	December 8, 1994
15. Pressure Ulcer Treatment	December 21, 1994

Figure 2 - AHCPR-Supported Guidelines, Quick Reference Guides, and Consumer Versions Online in HSTAT as of April 3, 1995

HSTAR Update

The HSTAR (Health Services/ Technology Assessment Research) database first became available in February 1994 (see page 1 of the January-February 1994 *Technical Bulletin*). HSTAR was created to serve as a unique file for the organization and storage of health services research (HSR) citations from the MEDLARS (e.g., MEDLINE, HEALTH, CATLINE) databases and to expand NLM's online coverage of and access to HSR literature by including materials not previously covered in MEDLARS. HSTAR currently contains over 1.5 million records.

Selection Criteria

NLM's collection development policies and practices for HSR materials are described in detail in the *Collection Development Manual of the National Library of Medicine* (3rd edition, 1993). Like many other NLM publications, the *Collection Development Manual* is available via file transfer protocol (ftp) over the Internet from NLM's publications server and the NLM Gopher. Additional guidance has been provided to NLM from:

- *The National Library of Medicine and health care technology assessment : improving the information: report of a study* by the Information Panel of the Council on Health Care Technology Information

- *Improving information services for health services researchers: a report to the National Library of Medicine*. Committee to Advise the National Library of Medicine on Information Center Services in Health Services Research, Institute of Medicine; Jo Harris-Wehling and Lawrence C. Morris, editors

- Suggestions from users of NLM's bibliographic and full-text databases on health services research and practice guidelines

- Recommendations from the NLM's Literature Selection Technical Review Committee (LSTRC), established to review journal titles and assess the quality of their contents

Broadly defined, the HSTAR database encompasses three conceptual areas:

Health Services Research: the study of the scientific basis and management of health services and their effect on access, quality, and cost of health care

Clinical Practice Guidelines: a set of directions or principles to assist the health care practitioner with patient care decisions about appropriate diagnostic, therapeutic, and other clinical procedures for specific clinical circumstances

Health Care Technology Assessment: the evaluation of the cost, efficacy, effectiveness, patterns of use, and the ethical, economic, and social consequences of a medical technology

Composition of HSTAR

HSTAR contains bibliographic records from MEDLINE (87%), HEALTH (5%), and CATLINE (7%) from 1985 to the present, selected citations prior to 1985 on health legislation and regulation, and approximately 7,500 (<1%) citations from materials indexed exclusively for HSTAR. These items do not appear in any other MEDLARS database. They include: (1) journals and monographic series that are being selectively indexed for HSTAR. A list of these can be obtained by searching SERLINE in the AI (Abstracting and Indexing) field for the value HSR or in the LI (Special List Indicator) field for the value T; (2) government reports collected by NLM in microfiche format from the National Technical Information Service (NTIS); (3) clinical practice guidelines and health care technology assessment reports issued by governmental and nongovernmental organizations (consulting firms) worldwide; (4) health care equipment product comparison reports; (5) meeting abstracts from the Association for Health Services Research and the International Society of Technology Assessment in Health Care; (6) conference papers; and (7) book chapters. Newspaper articles regarding major health care policy, technology, and trends will be indexed in the future. HSTAR is updated weekly with MEDLINE citations, and monthly with citations from HEALTH, CATLINE, and the materials indexed exclusively for HSTAR.

Search Hint

Searchers using multiple databases may want to limit their retrieval to the materials unique to HSTAR. Since the MEDLINE (SI=MED) and HEALTH (SI=AHA) portions of HSTAR are quite large (92% of database), it is recommended that searchers combine the Secondary Source ID (SI) values of the special material with their retrieval (see Figure 1). The SI values found in HSTAR are: MED for MEDLINE references; AHA for HEALTH references; CAT for CATLINE references; HTA for journals indexed exclusively for HSTAR and held by NLM; HTM for books, book chapters, and monographic series indexed exclusively for HSTAR and held by NLM; and HTX for materials indexed exclusively for HSTAR and not in NLM's collection. Grateful Med users are prompted automatically on the HSTAR Input form screen to eliminate MEDLINE and/or HEALTH records. The retrieval then includes the unique HSTAR materials and CATLINE references.

YOU ARE NOW CONNECTED TO THE HSTAR (HEALTH SERVICES/TECHNOLOGY ASSESSMENT) FILE.

SS 1 /C?
USER:
(SI) HTA OR HTM OR HTX

PROG:
SS (1) PSTG (7457)

PSTG (7457)

SS 2 /C?
USER:
1 and *management information systems

PROG:
SS (3) PSTG (7)

SS 4 /C?
USER:
prt 5 compr

PROG:

1
SI - HTM/94904960
AU - Zipsnis K
CN - Arizona State Dept. of Health Services ; United States. Office for Maternal and Child Health
TI - Family health services state program staff development project [microform]
OD - PB91-2251169
PC - Distributed for purchase by: the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield VA 22161.
SO - Phoenix, AZ: Arizona State Dept. of Health Services, 1991. 15 p.

2
SI - HTX/94910991
AU - Indyk D; Bleville R; Indyk L
TI - A continuous quality improvement approach to community-based program development: implications for understanding and meeting basic needs [abstract]
SO - AHSR FHSR Annu Meet Abstr Book. 1994;:83.

3
SI - HTX/94910949
AU - Borbas C ; McLaughlin B ; Germann S ; Morris N ; Boudlali K ; Lancer S ; Schultz G
TI - Developing outcomes management evaluations and reporting programs for health care providers and purchasers: lessons learned [abstract]
SO - AHSR FHSR Annu Meet Abstr Book. 1994;:101.

4
SI - HTX/94906496
AU - Sahlstedt S
TI - Computer support for nursing process and documentation [abstract]
SO - Abstr Int Soc Technol Assess Health Care. 1993;:215.

5
SI - HTA/92901220
AU - Wiederhold R
TI - Integrated information management system.
SO - Prehospital Disaster Med. 1992 Apr-Jun;7(2):161-6.

- **Secondary Source ID (SI) fields of citations from materials indexed exclusively for HSTAR.**
- **Combine the subject of the search with the unique retrieval for this file.**
- **HTM = Monographs indexed exclusively for HSTAR.**
- **HTX = Material not in NLM's collection and indexed exclusively for HSTAR.**
- **HTA = Material held by NLM and indexed exclusively for HSTAR.**

Figure 1 - Sample HSTAR Search Limiting Retrieval to Citations from Materials Indexed Exclusively for HSTAR

Document Delivery

The majority of the citations in HSTAR can be obtained through normal interlibrary loan channels, e.g., DOCLINE. Procurement Source and Order Numbers are provided for selected material indexed exclusively for HSTAR that may not be widely held by libraries. Any questions concerning the availability of HSTAR material should be directed to the National Information Center on Health Services Research and Health Care Technology (NICHSR) at NLM..

Future Plans

HSTAR is still undergoing development coordinated at NLM through NICHSR. Future plans include the addition of health care related economic, legal, and standards literature. An update to the Macintosh version of Grateful Med will include a HSTAR Input screen and will be available upon request from NICHSR in the summer of 1995. Contact NICHSR at the address below if you would like to receive the update when it becomes available.

NICHSR welcomes your suggestions and comments for ways to improve access to the increasingly important HSR literature.

National Information Center on Health Services Research and Health Care Technology (NICHSR)
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894
E-mail: nichsr@nlm.nih.gov
Phone: 301-496-0176 or
800-272-4787 (Select 1,6,3,2)
Fax: 301-402-3193 ❑

--prepared by Ione Auston National Information Center on Health Services Research and Health Care Technology (NICHSR)

AVLINE Update

In early 1995, NLM made three significant changes to its audiovisual cataloging policy to maximize use of decreasing staff resources and to make bibliographic records for audiovisuals and computer software available to users more rapidly.

Implementation of NLM Core Level Cataloging for Nonprint Materials

Beginning in March 1995, the Cataloging Section implemented a newly defined "NLM Core" level of cataloging for nonprint materials. This "NLM Core" level is, in essence, an enhanced minimal level cataloging record which provides a core description, including notes specific to audiovisuals and computer software, but restricts the number of access points provided.

NLM plans to provide full level cataloging for all NLM productions and for archival films. Bibliographic records for all other nonprint materials, including computer software, are provided at the newly defined "NLM Core" level of cataloging. In rare instances, cataloging records created at the "NLM Core" level may be upgraded to full level for materials determined to be of historical significance.

"NLM Core" level cataloging follows national guidelines for core level descriptive cataloging standards developed by the National Cooperative Cataloging Council, and is in conformance with all format specific requirements for the first level of description of the *Anglo-American Cataloguing Rules,* 2nd edition, 1988 revision (AACR2r).

Access to variant titles is provided when they are significantly different from the title on the chief source. All required format-specific notes are provided, as are producer supplied abstracts, when readily available. Name access is limited to the first person or body named in the statement of responsibility, and the first person named in the credits or participants note. Name access points are in conformance with the AACR2r and verified in NLM's internal name authority file. Headings are not contributed to the National Coordinated Cataloging Operations (NACO) program.

Subject analysis and classification are in conformance with NLM's policy for full level cataloging.

In USMARC audiovisual and computer software records distributed by NLM, these "NLM Core" level records are identified as encoding level "7" in leader byte 17.

Change in Form of Procurement Source Names

Beginning in March 1995, NLM discontinued providing authority control for procurement source names cited in bibliographic records for audiovisuals and computer software. The source of acquisition is now supplied in the form found on the piece being cataloged, rather than, as previously, in a standard format based on the *Anglo-American Cataloguing Rules,* 2nd edition, 1988 revision (AACR2r).

This change is expected to have little effect on users of NLM records for non-print materials, particularly since the Procurement Source (PC) field remains Text Word (TW) searchable in AVLINE. In USMARC tape products distributed by NLM, NLM bibliographic records for audiovisuals and computer software will continue to contain this type of procurement source information in USMARC field 037 (Source of Acquisition).

Change in NLM's Audiovisual Cataloging-in-Production (CIP) Program

At the end of January 1995, NLM discontinued providing Cataloging-in-Production (CIP) data for audiovisual materials not produced by NLM. [Note: For audiovisuals materials, CIP refers to Cataloging-in-Production, not Cataloging in Publication, because audiovisuals are considered to be produced, not published.]

The Cataloging Section continues to provide CIP data for all NLM productions as a means of announcing these forthcoming titles to the health sciences community. NLM has discontinued providing CIP data for products of other organizations, including those of the National Network of Libraries of Medicine.

Since 1977, NLM had provided CIP data for audiovisual materials at the request of participating producers of health sciences materials. This pre-production cataloging served to announce forthcoming productions to the health science community. In the fourteen years of the program to date, NLM prepared CIP data for just under 900 items, which amounts to approximately 3% of the total AVLINE database. Submissions to the program have declined in recent years from over 100 items in 1989 to just 10 items in 1994. Discontinuing the provision of audiovisual CIP data for non-NLM productions is expected to have little impact on users of NLM bibliographic records.

Note: The NLM Cataloging-in-Production (CIP) program for audiovisuals is independent and unrelated to NLM's participation in the Library of Congress CIP program for print materials. ❑

—prepared by Alice Jacobs
Technical Services Division

BIOETHICSLINE Update

The BIOETHICSLINE file was regenerated in March 1995. Over 45,000 records concerning ethical and related public policy issues in health care and biomedical research are online in this file as of the 9504 Entry Month (EM).

Searchers should note that the regenerated file incorporates the following:

- Sixteen new or retrospectively changed Keywords (KW)
- Two changes in frequently cited Titles of Journals
- The 1995 MeSH (generated by automatic "maps" from most BIOETHICSLINE Keywords to equivalent, broader, or related MeSH terms)
- A new Secondary Source ID field
- A change in the Author Abstract field

Keyword (KW) Vocabulary Changes

Following is the list of new 1995 BIOETHICSLINE Keywords that became available online in March. Some of them (as indicated) replace previously searchable terms:

allied health personnel
breast cancer
chromosome abnormalities
(changed from "chromosomal disorders")
comparative studies
embryo research
(retrospectively added by search algorithm to many pre-1995 records)
feminist ethics
fetal research
(retrospectively added by search algorithm to many pre-1995 records)
genetic predisposition
genetic research
government financing
(retrospectively added by search algorithm to many pre-1995 records)
health care reform
health insurance reimbursement
late-onset disorders
mandatory testing
(retrospectively added by search algorithm to many pre-1995 records)
persistent vegetative state
(changed from "coma")
physician self-referral
(retrospectively added by search algorithm to many pre-1995 records)

Title of Journal (TJ) Changes

The titles of two major journals were updated as follows:

New Title of Journal: (TJ) BMJ
(BRITISH MEDICAL JOURNAL)
(formerly *British Medical Journal*)

New Title of Journal: (TJ) JAMA
(formerly *Journal of the American Medical Association*)

New Secondary Source ID (SI) Field

This is a new field created from the existing UI (Unique Identifier) field. The standard prefix of KIE has been given to the UI of all records now in the database. For example:

UI - 12345 generates
SI - KIE/12345

In the future, the SI field will be used to show the source of a record. When records from other ELHILL files become available in BIOETHICSLINE, the SI field will allow the searcher to identify the original source of the record.

Change in the Author Abstract (AA) Field

The only valid value in this field has been changed from KIE to Author. Now, just as in MEDLINE, to restrict your search to only those records containing abstracts, you would enter author (aa) at any USER: prompt or combine your retrieval with author (aa) as shown.

USER: clinical ethics committees and author (aa)

Note that only about 20% of the citations in this file contain abstracts, so restricting your search to citations with abstracts will sharply curtail your retrieval.

Availability of the *Bioethics Thesaurus*, 1995 Edition

The 1995 edition of the *Bioethics Thesaurus* is scheduled to be published in April. It will provide explanatory scope notes and cross-references to broader, narrower, and related terms for nearly all of the 600+ Keyword Descriptors used in indexing and searching BIOETHICSLINE. It will also include an updated "Selected List of 'Major Issue' Keywords" and a full list of Subject Captions that can be used to limit BIOETHICSLINE searches by broad subject area or by type of approach to a subject.

In addition, for the first time, the 1995 *Thesaurus* will incorporate a Permuted Keyword Index to all of its searchable terms. The permuted index is expected to increase the size of the *Thesaurus* from 59 pages in 1994 to approximately 85 pages in 1995.

Copies of the *Bioethics Thesaurus,* 1995 edition may be ordered from the:

National Reference Center for Bioethics Literature
Kennedy Institute of Ethics
Georgetown University
Washington, DC 20057-1065
800-MED-ETHX or 202-687-6738

The price for standard delivery via first-class mail in North America is $20 per copy; elsewhere, the airmail price is $25. All orders must be prepaid; checks should be made payable to the Kennedy Institute of Ethics; charges to MasterCard or VISA are also accepted.

The new edition of the *Thesaurus* will also be made available via anonymous ftp from nlmpubs.nlm.nih.gov. ❑

--prepared by Tamar Joy Kahn
Kennedy Institute of Ethics

Author Policy for NLM Indexes and Databases

Current Policy

Since 1984, the National Library of Medicine has limited the number of author names in MEDLINE and *Index Medicus* to ten, with "et al." being the eleventh occurrence in MEDLINE. [Editor's note: In ELHILL files, et al appears without the period as shown in this sentence.] In the *Index Medicus* Author Section, the full citation appears under the name of the first author, and the second through tenth authors are cross-referenced to the first author.

Policies in Previous Years

Index Medicus, 1960 through 1963, contains all author names. The full citation appears under the first author, and co-authors are cross-referenced to the first author. From 1964 through 1977, citations in *Index Medicus* were limited to three authors. The full citation appears under the name of the first author; the second and third authors were cross-referenced to the first. From 1978 through 1983, all (non-transliterated) author names were listed in the Author Section of *Index Medicus*. The full citation was given under the first author, and co-authors' names were cross-referenced to the main entry.

MEDLINE, beginning with citations indexed in 1966, did not limit the number of authors until 1984.

Searchers will find some citations with "et al." in the older MEDLINE backfiles. Although many of these records were input initially with all authors, subsequent citation maintenance has been performed (e.g., correction of a typographical error). Because maintenance of older citations requires the use of contemporary computer programs, the system has stripped supernumerary author names from the record, and substituted "et al." Some of these records with "et al." may have been added at a later date, after a missing issue was received and indexed under the current practice.

Transliterated Names

The exceptions to the current policy were authors whose names must be transliterated from Japanese ideograms or the Cyrillic alphabet. Transliterated author names were limited to five in both *Index Medicus* and the database until 1990; ten are now entered. Chinese ideograms for co-authors are not transliterated if the journal lists only a single transliterated name in the table of contents.

Order of Authors' Names

MEDLINE and *Index Medicus* do not attempt to identify a "principal" author, such as the head of the laboratory where the research was conducted, or the senior member of the research team. Author names are entered in the order in which they are printed in the "author position" of the article; that is, in the space between the article title and the text, or above the title.

Corporate, Group or Multiple Authorship

Although MEDLINE has no special data field for corporate authors, the names of organizations, committees, or collaborative study groups are added at the end of the title field, and are retrievable by Title Field Text Word (TF) searching. No attempt is made to perform authority work for corporate authors; the names are entered as they appear in the author position.

Multiple authorship, and thus the number of "et al." citations in MEDLINE, has been on the increase. (See the article titled Author! Author! on page 14 of the January 1988 *Technical Bulletin* for another look at this subject.) For an interesting current perspective on the magnitude and implications of the situation, see the following editorial:

Rennie D, Flanagin A. Authorship! Authorship! Guests, ghosts, grafters, and the two-sided coin. JAMA 1994 Feb 9;271(6):469-71. ❑

--prepared by Nancy Wright
Index Section
Bibliographic Services Division

Identification of Clinical Trials in MEDLARS Citations

NLM is committed to improving access to information related to clinical trials in the MEDLARS databases. Toward that effort, beginning with the 1995 system:

- Prospectively, NLM indexers are continuing to give increased attention to the identification of clinical trials in the journal literature through their assignment of specific Publication Type (PT) values. A new PT value of CONTROLLED CLINICAL TRIAL was added for 1995, to identify quasi-randomized trials (see page I-20 of the 1995 *Annotated MeSH* for a complete definition). Truly randomized trials continue to be indexed with RANDOMIZED CONTROLLED TRIAL.
- Retrospectively, NLM added the previously mentioned two PT values to MEDLARS citations involving randomized or quasi-randomized controlled trials. NLM was significantly assisted in this work by the Baltimore Cochrane Center based at the University of Maryland, who both brought attention to this issue, and coordinates the ongoing effort of various Cochrane Centers collaborating to identify citations to be enhanced.

As part of the annual (Year-End Processing) database maintenance effort for the 1995 MEDLARS system, PT values of RANDOMIZED CONTROLLED TRIAL or CONTROLLED CLINICAL TRIAL were added to citations identified in MEDLINE, MED90, and MED85. These citations also received the "parent" PT value of CLINICAL TRIAL.

More than 15,000 MEDLINE and MEDLINE Backfile citations were enhanced with clinical trials PT values; over 2,000 in MEDLINE; over 3,000 in MED90, and over 10,000 in MED85.

Over 5,000 MEDLINE-derived citations in other MEDLARS files, such as AIDSLINE, CANCERLIT, and HEALTH, were also updated, enhancing the retrieval of clinical trials data in these databases.

This retrospective effort is ongoing. The Baltimore Cochrane Center will identify more citations that will be maintained during Year-End Processing for the 1996 MEDLARS system. ❑

--prepared by Jan Willis
MEDLARS Management Section

A Review of $DSFILE Command: ftp of Online Search Results

In the March-April 1994 *Technical Bulletin*, the National Library of Medicine announced the availability of a new VTAM (Virtual Telecommunications Access Method) command for ELHILL searchers: $DSFILE. This article is an overview of the command and its function. You may refer to the original article for further details.

The $DSFILE command allows users to store information obtained from ELHILL on NLM's mainframe computer, then download the file to their local computer using file transfer protocol (ftp) via the Internet. We thought it was time to review this feature because many users may have obtained Internet access in the last year. This feature is especially useful for users who might otherwise frequently use offline prints and/or users with large retrieval sets.

Command Overview

Typing a $DSFILE command instructs the NLM computer to redirect the output of the next command as a file to the MEDLARS ftp server rather than displaying the output on the screen. What you will see on the screen instead is the last few lines of the output as well as a message telling you the name of your file and its directory location. The files you will create with $DSFILE are ASCII text files.

Time Period for Retrieving Files and Notification

Once you have created a file for ftp, the file remains on the MEDLARS ftp server for five business days. Saturdays, Sundays and holidays are not included as "business days." A message indicating that you have online files available to ftp will appear when you login to ELHILL whenever there are files associated with your User ID code on the MEDLARS ftp server. This message will appear each time you login until you remove the file from the server or until five business days have elapsed and the file is automatically purged.

Creating the File

You create the file while you are logged into ELHILL (see Figure 1). Begin by searching and creating a retrieval set. To send the output to the MEDLARS ftp server issue the $DSFILE command at the next USER: prompt. The system acknowledges the command by responding with another USER: prompt.

Next, enter the print command. Because you already issued a $DSFILE command, the system will send all print results to the MEDLARS ftp server. The system will confirm that your online print file has been completed by displaying the last record (or last few records) along with a message telling you where the file is located. You are ready to proceed when you have another USER: prompt.

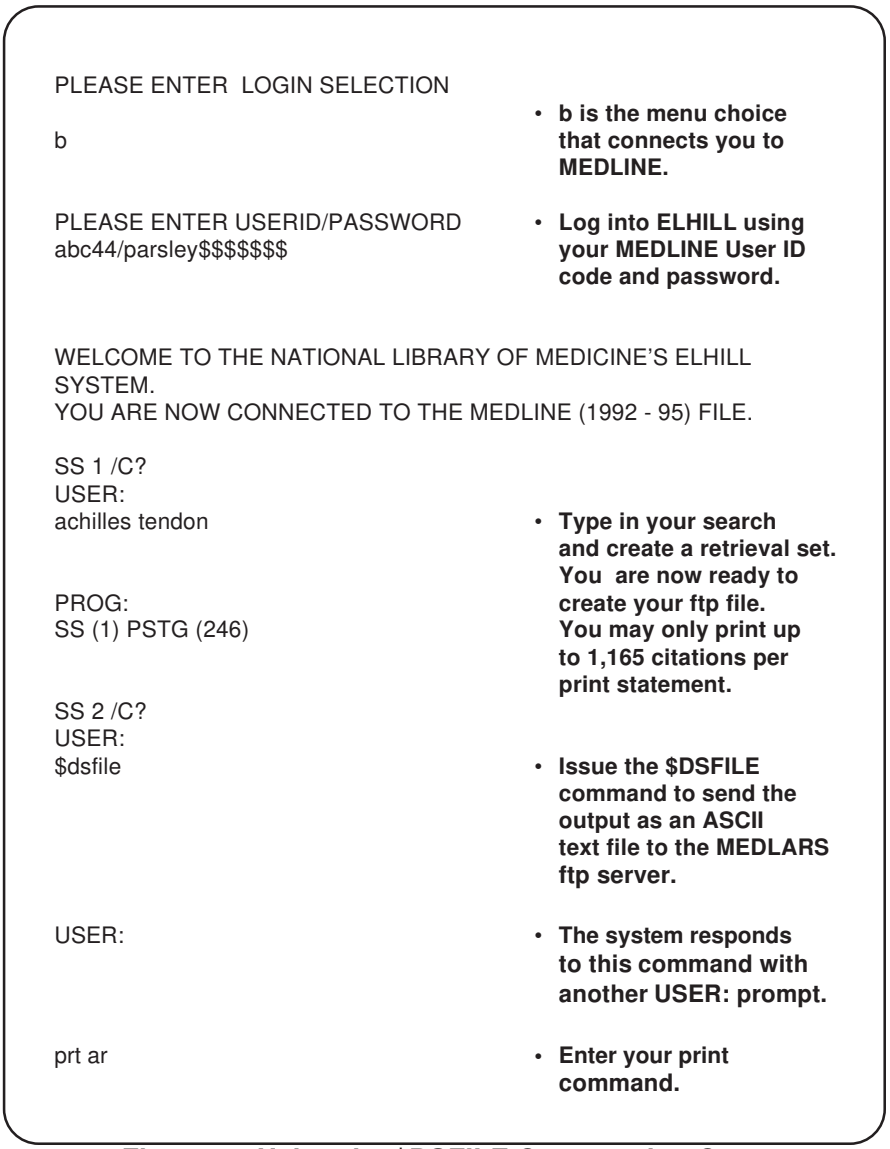

Figure 1 - Using the $DSFILE Command to Create an Online File for ftp

between the control and nonweight-bearing rats. Bone weight and bone dimensions did not differ in the three groups. In the nonweight-bearing group, the maximum bending moment and bending rigidity were higher in the nonoperated on limb, as well as the outer and inner bone dimensions and the area moment of inertia. Our results indicate that exercise improves the mechanical characteristics of bone.
SO - Acta Orthop Scand 1992 Feb;63(1):70-3

SS 2 /C?
Your data is in DSPRINT.ABC44.DS06705

USER:
stop y

- **The computer responds by: a. showing you the last few lines of your retrieval, and**
- **b. telling you the location of your file on the MEDLARS ftp server.**
- **You can logoff ELHILL once you are done searching. You are now ready to ftp your file.**

Figure 1 - Using the $DSFILE Command to Create an Online File for ftp cont.

Your file, DS06705 from Figure 1, is now on the MEDLARS ftp server in the DSPRINT.ABC44 directory. ABC44 is the User ID code used for this example. You would actually see your own User ID code here. The file names are cryptic, in this case DS06705, indicating only that the contents were generated from a $DSFILE command combined with a print request. This is an online print file (indicated by the leading DS, which stands for Data Set). The numbers 06705 represent a job number generated by the computer. Together these make up the DSID number. These numbers will change for every file you create. You are now ready to look at your results and/or ftp your file.

Downloading Your Files

The online print files are located on the MEDLARS ftp server. To access these files, you need to know the PDQ password or DOCLINE password associated with the User ID code used to create the file. See Figure 2 for instructions to ftp your files.

Step	Explanation/Comments
ftp medlars.nlm.nih.gov	Connect to the MEDLARS ftp server.
login: [User ID code] e.g., ABC44	Depending on your ftp software, you may have a different prompt such as “logon” or "user." In some cases you will not have any prompt; you just have to know to type the appropriate word. The User ID code keyed in must be the same User ID code under which you issued the $DSFILE command. Check with your system administrator if you are having problems.
password: [your password] e.g., PDQA	Remember, this is either your PDQ password OR your DOCLINE password NOT your ELHILL password.
cd [‘dsprint.userid’] e.g., cd ‘dsprint.abc44’	Substitute your User ID code for userid. This will place you in the correct directory where your files are located. YOU MUST INCLUDE THE SINGLE QUOTES!!
dir	This will provide a listing of your files available for ftp. Remember, online print files all start with DS.
get [filename] get ds06705	Many systems will prompt you for a destination filename at your end as well. If so, specify the entire filename including the drive and path (for example,c:\results\DS06705). Check with your system administrator if you are having problems. Note: If you have more than one file to download you can substitute the mget command for the individual “get filename” command exactly as shown below: mget *
bye	To exit from the ftp session.

Figure 2 - Downloading (ftp) Your Online Print File

Purging Your Online File

When you have completed downloading your online print file to your local computer, you should delete the file from the MEDLARS ftp server. The system is set up to delete online print files automatically after five business days. However, these files consume NLM system resources and could be confused with subsequently produced output and thus the files should be deleted as soon as they are no longer needed. There is no character charge associated with the use of the $DSPURGE command, however you will be charged for online time. To purge your online print file you will need to login to ELHILL. The interaction is shown in Figure 3.

```
PLEASE ENTER  LOGIN SELECTION
b

PLEASE ENTER USERID/PASSWORD
abc44/parsley$$$$$$$
```

- **Log into ELHILL using your MEDLINE User ID code and password.**

```
WELCOME TO THE NATIONAL LIBRARY OF MEDICINE'S ELHILL SYSTEM.
YOU ARE NOW CONNECTED TO THE MEDLINE (1992-1995) FILE.

SS1/C?
USER:
$dslist
```

- **Type $DSLIST to see a directory of files available to you for ftp.**

```
     DSID          -------------Dataset-Name-------------          Lines     Chars     ----------Created----------
     6705                DSPRINT.ABC44.DS06705                     6723      318780    03/02/95-14:44:06
USER:
$dspurge 6705
```

- **Type $DSPURGE followed by the DSID number.**

```
DSPRINT.ABC44.DS06705 - Purged
```

- **The computer responds by stating that the file has been purged. The purging of the file**

is

immediate; it cannot be restored.

```
USER:
stop y
```

Figure 3 - Purging Your Online File

Costs

The charge to ftp online search results from ELHILL is based on the regular online billing algorithm; there are no additional charges on the ELHILL side of this procedure and no cost to login to the MEDLARS ftp server via the Internet to capture the data subsequently to your computer.

Conclusion

$DSFILE provides Internet users with an additional avenue for obtaining information in a more timely manner. Remember that this article is a review of the original article published in the March-April 1994 issue of the *Technical Bulletin*, pages 13-17. For a full description and detailed instructions please refer to that article. ❑

--prepared by Vivian A. Auld
and Mary Herron
MEDLARS Management Section

NLM's Implementation of USMARC Bibliographic Format Integration

In NLM's internal Technical Services System (TESS), the format of the bibliographic records used in online cataloging is MARC-based to better support the input and output of USMARC-formatted data. The ELHILL files, CATLINE and AVLINE, are updated weekly from TESS by means of conversion programming that maps the TESS/MARC format into ELHILL record format. Because the internal TESS bibliographic file is MARC-based, most of the changes required by format integration must be made to the records in the TESS database rather than implemented at the time of conversion to USMARC tape output. The CATLINE and AVLINE files, accessed through Locator or as independent ELHILL files, are not affected by any of the field, subfield or indicator changes occurring in format integration; however, data not previously converted to the ELHILL records may begin to appear in occurrences of the General Notes (GN) field.

Format Integration, Phase 1

NLM, along with most other USMARC data providers, is implementing the bibliographic format integration changes in two phases. The first phase involves changes to the variable length fields 010 - 00X. NLM will complete the necessary modifications for Phase 1 as outlined in *USMARC Format for Bibliographic Data*, 1994 edition, by the end of April 1995 and plans to distribute records conforming to those changes to tape licensees no later than May 1995. These records should appear in the bibliographic utilities that license NLM data shortly thereafter according to vendor-established schedules.

One result of combining similar fields and expanding their application to all formats was to make certain fields, subfields and indicators obsolete. NLM is converting all obsolete USMARC values to current ones, with the understanding that in some cases these conversions will not be completely accurate. For example, NLM will update the indicators on all existing occurrences of field 246 - Varying Form of Title, and convert all of the existing occurrences of 740 - Added Entry, Uncontrolled Related/ Analytical Title to field 246. This conversion will be correct for most of NLM's title-added entries that are variant titles. The few analytic titles that are moved to the newly defined 246 will be corrected as time permits. This will not affect the conversion or display of variant titles and analytical titles in CATLINE and AVLINE where they all appear as additional occurrences of the Title (TI) field.

Cataloging Policy Issues

Users of NLM bibliographic data will not encounter significant changes to the intellectual content of NLM cataloging records due to format integration. The changes due to format integration primarily affect the **content designation and structure** of NLM data as distributed in the USMARC tape products and do not reflect any substantive change in NLM cataloging policies for the creation of full or limited level bibliographic records. As appropriate to the item being cataloged, users may note some or all of the following:

- NLM will use the USMARC 246 field for varying forms of title and will use the 740 field prospectively, as appropriate, to provide access to analytic titles. As noted above, these added titles will appear as multiple occurrences of the Title (TI) field in ELHILL.

- NLM will include certain USMARC fields for numbers, e.g., field 024 - Other Standard Identifier, 028 - Publisher Number, when available and appropriate to the item being cataloged. Such numbers, when provided, will appear in the General Notes (GN) field in the ELHILL files.

- NLM will implement the use of the enhanced content designation for the field 505 - Formatted Contents Note, only for historical works published before 1914. For the cataloging of modern materials, NLM will continue to use a single occurrence of subfield "a" when recording contents information. There will be no change in the appearance of contents data in the ELHILL files.

- Certain USMARC fields which NLM previously used only for bibliographic records in the serials format, notably the linking entries 76X-785, may now appear on any record where appropriate. As examples, the linking fields may now appear on a record for an audiovisual serial or a media specific note field, such as the 538 - System Details Note, may appear on a record for a print monograph when necessary to describe the system requirements of any accompanying software. In the ELHILL files, these data continue to appear in the General Notes (GN) field.

- As appropriate to the item being cataloged, NLM will also begin to use the following specific USMARC fields noted as follows:

247 - Former Title or Title Variations

This field will be used by NLM in rare cases specifically for Pre-AACR2 cataloging of serials, when one cataloging record represents all titles associated with an entity. In ELHILL, when present, the data will appear either as an occurrence of the Title (TI) field or in the General Notes (GN) field, depending on whether or not an added entry for the title is desired. (NLM is not currently preparing any records conforming to Pre-AACR2 rules.)

536 - Funding Information Note

This note will be supplied in those cases where an item contains a prominent statement indicating that the work was

supported by government funding (especially that of NLM, or other NIH agencies). When present, the data will appear in the General Notes (GN) field in CATLINE and AVLINE.

545 - Biographical or Historical Note

This note will be supplied, in certain instances, for historical materials published before 1914. The data, when present, will appear in the General Notes (GN) field in ELHILL.

547 - Former Title Complexity Note

Used rarely for pre-AACR2 cataloging of serials, NLM will use this USMARC field to content designate complex relationships appropriately between varying titles, not easily expressed by the existing values in USMARC field 247 - Former Title or Title Variations. In ELHILL, the data will appear in the General Notes (GN) field. (Note: NLM is not currently preparing any records conforming to Pre-AACR2 rules.)

556 - Information about Documentation Note

NLM will use this USMARC field in rare cases to describe accompanying documentation fully (e.g., the technical documentation which accompanies a computer software program). The data will appear in the General Notes (GN) field in ELHILL.

561 - Provenance Note

NLM will specifically code this USMARC field for historical works published before 1914 and for archival films. When available, the data will appear in the General Notes (GN) field in ELHILL.

565 - Case File Characteristics

NLM will code this USMARC field to provide information about the content and characteristics of case files, particularly for computer software and specifically for raw data files. When present, the data will appear in the General Notes (GN) field in ELHILL. (Note: NLM is not currently providing bibliographic control of this type of material, but may do so in the future).

586 - Awards

In rare cases and, primarily for audiovisual materials, NLM will specifically code this USMARC field to indicate awards associated with the described item. The data, when present, will appear in the General Notes (GN) field in ELHILL.

755 - Added Entry Physical Characteristics

This note will be used rarely for historical works, published before 1914, cataloged by the History of Medicine Division. In ELHILL, these data will appear in the General Notes (GN) field.

856 - Electronic Location and Access

The data for this field will be supplied on records for electronic serials available from remote locations.

Format Integration, Phase 2

The implementation of Phase 2 of format integration, which affects the fixed fields below USMARC 010, is planned for the end of 1995. In conjunction with the use of the USMARC 006 field for Additional Material Characteristics, NLM will distribute nonprint serials to the licensees of AVLINE/MARC data. These records are currently not included in the MARC distribution of either CATLINE or AVLINE.

Technical questions related to NLM's implementation of USMARC bibliographic format integration should be directed to the Head, Systems Unit, Cataloging Section, Technical Services Division (301-496-5497); questions regarding NLM's cataloging policy should be addressed to the Head, Cataloging Section, Technical Services Division (301-496-5497). Alternatively, all queries may be forwarded via e-mail to tsd@nlm.nih.gov. ❑

--prepared by Alice Jacobs
Technical Services Division

Grateful Med Update

The most recent Grateful Med updates--IBM PC Version 6.6 and Macintosh Version 2.2--were released with a "bug" in their respective MeSH Tree files. The MeSH Tree file contains the more specific terms for a selected MeSH heading. Only the onscreen display for these terms was affected. You can still select (use F10 with or without selecting 'Plus specific terms') and search with any of the above terms without any problems.

In Version 6.6 only the 3-1/2" disks are affected. The 5-1/4" disks are correct. If you would like to receive replacement tree files please call the Grateful Med distributor, NTIS, at 800-423-9255. There is no charge for the replacement disks. Please use one of the order numbers that follow when requesting replacement disks:

DOS Tree Disk: PB95-502662
Mac Tree Disk: PB95-502670

You may also ftp the files from gmedserv.nlm.nih.gov. They are located in the grateful/pc/fixes or grateful/mac/fixes directories.

The specifics of this problem are described in the two columns to the right.

NAD+... in the MeSH Tree File

There are two occurrences of "NAD+ ..." in the MeSH Tree file:

"NAD+ Nucleosidase" underneath the broader term "Nucleosidases"

and

"NAD+ ADP-Ribosyltransferase" underneath the broader term "Pentosyltransferases"

In both the IBM and Macintosh versions the NAD+ term display is garbled.

Macintosh Version 2.2 Tree Display for NAD+...

If you open up 'Nucleosidases' or 'Pentosyltransferases' in Grateful Med 2.2 for the Macintosh, the more specific terms for either of these terms are incorrect from NAD+ onwards.

IBM PC Version 6.6 Tree Display

The problem manifests itself differently in Grateful Med IBM PC Version 6.6 (update version). In this case, the F5 "more specific term display" is incorrect for all of the following terms:

Nucleosidases +
Nucleoside Deaminases +
Nucleoside Diphosphate Sugars +
Nucleosides +
Nucleotidases +
Nucleotide Deaminases +
Nucleotide Mapping +
Nucleotides +
Nucleotides, Cyclic +
Nucleotidyltransferases +
Nurseries +
Nurses +
Nurses' Aides +
Nursing + [the field or occupation; consider Nursing (sh)]
Nursing Assessment +
Nursing Care +

Pentosyltransferases +
Peptic Ulcer +
Peptide Elongation Factors +
Peptide Hydrolases +
Peptide Initiation Factors +
Peptide Mapping +
Peptide Peptidohydrolases +
Peptide Synthesis + [automatic +; always includes more specific syntheses]
Peptide Synthetases +
Peptides +
Peptides, Cyclic +
Peptococcaceae +
Perception +
Perceptual Disorders +
Perciformes +
Perfusion +
Periapical Diseases +
Periapical Periodontitis +
Pericarditis +
Periodicity +
Periodontal Cyst +
Periodontal Diseases +

The problem also exists if you select F5 from a term that is a cross-reference to one of the above terms. ❑

--prepared by Kathi Canese
MEDLARS Management Section

Gold Standard Search

Thank you to everyone who mailed in search strategies in response to the "Gold Standard Search" article in the November-December 1994 issue of the *Technical Bulletin*. This feature offers searchers a chance to match wits with the NLM staff on a search strategy formulation. The Gold Standard search strategies are developed here at NLM. The search request published in the November- December 1994 issue was:

The user is giving a presentation on "unnecessary" cesarean sections and would like material to review on this subject, going back no further than 1992.

The Winner

There was one winner! Our congratulations go to Leslie C. Hassett at Del E. Webb Memorial Library at Loma Linda University in Loma Linda, California who ran her search in the Health Services/Technology Assessment Research (HSTAR) database using the ELHILL command language. An honorable mention goes to Linda Oddas of Waukesha Memorial Hospital in Waukesha, Wisconsin for her search strategy also run in HSTAR.

Analysis of the Search Strategies

The Gold Standard Search retrieved 60 citations in HSTAR; see Figure 1. Ms. Hassett's strategy, shown in Figure 2, retrieved 52 citations. The difference between the two strategies is primarily in the number of MeSH headings used. Relevant MeSH headings are often suggested by careful examination of the MeSH headings in the citations retrieved under your initial strategy. In this case combining CESAREAN SECTION with unnecessary (TF) would retrieve citations that show many of the MeSH headings used in the Gold Standard search. The Gold Standard search also took advantage of the new proximity feature ADJACENCY to search for "unnecessary ADJ cesarean" to retrieve some additional citations. Notice that this combination does not replace a well constructed Boolean search (it retrieves less than a dozen records) but it does add some relevant citations.

Choosing a File

The topic of the search, although it didn't explicitly state "evaluation of a surgical procedure" had that meaning embedded in its core. And HSTAR is the database of choice for evaluating a medical procedure or technology. See the article on pages 13-14 of this issue for a more complete description of HSTAR. The retrieval obtained in this file includes citations from MEDLINE and HEALTH, as well as citations from unique materials indexed for this file.

Search Strategy Suggestions

The problem in searching this subject was to narrow the retrieval. Searching on the EXPLODEd MeSH heading CESAREAN SECTION with the subheadings /utilization (UT), /statistics & numerical data (SN) and /trends (TD) retrieved over 100 citations. And many of these citations dealt with just the medical aspects of this procedure. So the concepts of quality of care and evaluation of the procedure need to be added both to narrow the retrieval and to ensure a higher degree of relevance in the retrieved citations.

The Next Gold Standard Search

The search question is:

The user has asked for citations from 1994 forward on the concept of critical pathways and how critical pathways affect patient care.

Results will be published in the July-August 1995 *Technical Bulletin*. Entries must be received by June 20, 1995 to be considered.

Mail us a copy of your search strategy and include a printout of citations and abstracts. If your strategy is selected for publication you could win either a copy of Grateful Med or one hour of free search time. In cases of multiple submissions of identical winning strategies, the prize winner will be either the person who is a first time winner or the first winning strategy received.

Search Hints for Direct Searchers

Select your database carefully. Limit your retrieval to English-language citations.

Search Hints for Grateful Med Users

Select your database carefully. Remember to use the F10 key to look at MeSH headings. Users with the Macintosh version of Grateful Med should view MeSH headings by clicking on Find MeSH Term on the search screen. Limit your retrieval to English.

Reminder

There are no exact answers or absolutely correct strategies, only best approximations, just like real life. Good luck!

Please send a copy of your search strategy with the retrieval, including printed abstracts, which database was searched and whether you searched directly or used Grateful Med to:

Gold Standard Search
MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894 ❑

--prepared by Toby Port
MEDLARS Management Section

SS 1 /C?
USER:
file hstar

PROG:
YOU ARE NOW CONNECTED TO THE HSTAR (HEALTH SERVICES/TECHNOLOGY ASSESSMENT) FILE.

SS 1 /C?
USER:
subs apply ut, sn, td

PROG:
SUBHEADINGS ACCEPTED.

SS 1 /C?
USER:
exp *cesarean section

PROG:
SS (1) PSTG (412)

SS 2 /C?
USER:
subs cancel

PROG:
SUBHEADINGS CANCELLED

SS 2 /C?
USER:
health services misuse or knowledge, attitudes, practice or

PROG:
CNT 2

USER:
health services research or *physician's practice patterns or risk factors

PROG:
SS (2) PSTG (88860)

SS 3 /C?
USER:
*pregnancy outcome or practice guidelines or malpractice

PROG:
SS (3) PSTG (11305)

SS 4 /C?
USER:
exp quality assurance, health care or outcome assessment (health care)

PROG:
SS (4) PSTG (31178)

SS 5 /C?
USER:
1 and 2 or 1 and 3 or 1 and 4

PROG:
SS (5) PSTG (114)

- **These MHs were found by examining the MHs in citations retrieved by combining unnecessary (tf) with CESAREAN SECTION (mh).**

- **Because of the large number of postings in SS2 and SS4, to avoid a STORPSTG overflow they were not ORed together with SS3. Instead each of them is ANDed with SS1 first, before being ORed together.**

Figure 1 - Gold Standard Search

SS 6 /C?
USER:
exp *cesarean section and *vaginal birth after cesarean

PROG:
SS (6) PSTG (29)

SS 7 /C?
USER:
unnecessary adj cesarean

PROG:
SS (7) PSTG (10)

- **Seven out of these ten citations are not retrieved with the MeSH headings used in this search.**

SS 8 /C?
USER:
5 or 6 or 7

PROG:
SS (8) PSTG (146)

SS 9 /C?
USER:
8 and 95 (yr) or 8 and 94 (yr) or 8 and 93 (yr) or 8 and 92 (yr)

PROG:
SS (9) PSTG (74)

SS 10 /C?
USER:
9 and not for (la)

PROG:
SS (10) PSTG (63)

SS 11/C?
USER:
prt -3,4,63 si, ti, so

- **The first two citations are available only in HSTAR. The third citation is one of a few that comes from file HEALTH and would have been missed had this strategy been run in MEDLINE.**

PROG:

3
SI - HTM/94911145
TI - Surgical procedure rates with numerators from hospital data and denominators from several different at risk populations.
SO - In: Toward the year 2000: refining the measures: proceedings of the 1993 Public Health Conference on Records and Statistics, July 19-21, 1993, Washington, DC. Hyattsville, MD: National Center for Health Statistics, 1994. :269-74.

4
SI - HTX/94910992
TI - Continuous quality improvement initiatives and the cesarean birth rate [abstract]
SO - AHSR FHSR Annu Meet Abstr Book. 1994;:83-4.

63
SI - AHA/93242473
TI - A discussion of medical malpractice and cesarean section.
SO - Spec Law Dig Health Care Law. 1993 Apr;(170):9-30.

Figure 1 - Gold Standard Search cont.

SS 1 /C?
USER:
file hstar

PROG:
YOU ARE NOW CONNECTED TO THE HSTAR (HEALTH SERVICES/TECHNOLOGY
ASSESSMENT) FILE.

SS 1 /C?
USER:
health services misuse or unnecessary (tw)

PROG:
SS (1) PSTG (4207)

SS 2 /C?
USER:
exp cesarean section

PROG:
SS (2) PSTG (3785)

SS 3 /C?
USER:
1 and 2

PROG:
SS (3) PSTG (40)

SS 4 /C?
USER:
subs apply ct, st, ut, sn

PROG:
SUBHEADINGS ACCEPTED.

SS 4 /C?
USER:
exp cesarean section

PROG:
SS (4) PSTG (723)

Figure 2 - Leslie C. Hassett's Search Strategy

SS 5 /C?
USER:
subs cancel

PROG:
SUBHEADINGS CANCELLED.

SS 5 /C?
USER:
trial of labor or exp quality assurance, health care

PROG:
SS (5) PSTG (29217)

SS 6 /C?
USER:
4 and 5

PROG:
SS (6) PSTG (78)

SS 7 /C?
USER:
3 or 6

PROG:
SS (7) PSTG (115)

SS 8 /C?
USER:
7 and 92 (yr) or 7 and 93 (yr) or 7 and 94 (yr) or 7 and 95 (yr)

PROG:
SS (8) PSTG (61)

SS 9 /C?
USER:
ts (la) eng

PROG:
SS (9) PSTG (52)

Figure 2 - Leslie C. Hassett's Search Strategy cont.

SERIALS UPDATE

INDEXED TITLES UPDATED, JANUARY-FEBRUARY 1995

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:

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REGIONAL HOLDINGS 0363-7425
A02730000 JC: 0BR

IM ACTA CHIRURGIAE ORTHOPAEDICAE ET TRAUMATOLOGIAE CECHOSLOVACA
ACTA CHIR ORTHOP TRAUMATOL CECH
17,1950—
SCIENTIA MEDICA
PRAHA CZECH REPUBLIC
CONTINUES: SBORNIK PRO CHIRURGII POHYBOVEHO USTROJI. COVER OF VOL. 57 NO. 1 (1990) MISNUMBERED VOL. 56 NO. 1 (1990).
PUBLISHER VARIES.
INDEXING FOR ONLINE FILES BEGAN WITH V32N3,JUN 1965 AND CEASED WITH V61N2,1994.
W1 AC776N 0001-5415
A04740000 JC: 0J2

IM ACTA NEUROLOGICA
ACTA NEUROL (NAPOLI)
1,1946-33N6,1978;NS1N1,FEB 1979-16N6,DEC 1994
CLINICA NEUROLOGICA
NAPOLI ITALY
ISSUES FOR FEB. 1979- ALSO NUMBERED VOL. 34- . IMPRINT VARIES.
INDEXING FOR ONLINE FILES BEGAN WITH V20N3,1965.
W1 AC871 0001-6276
A07200000 JC: 19Y

INI GEORGIA NURSING
GA NURSE
1,1945—
GEORGIA STATE NURSES ASSOCIATION
ATLANTA GA UNITED STATES
VOL. 47 NO. 5,SEP-OCT 1987 MISNUMBERED VOL.67 NO. 5,SEP-OCT 1987. VOL. 48 NO.2,MAR-APR 1988 MISNUMBERED VOL. 68 NO.2, MAR-APR 1988.
INDEXING BEGAN WITHV22N4, WINTER 1966 AND CEASED WITH V52N2,MAR-APR 1992.
W1 GE444 0016-8335
G05280000 JC: FEL

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IM AKTUELLE PROBLEME IN CHIRURGIE UND ORTHOPADIE
AKTUELLE PROBL CHIR ORTHOP
1,1977—
VERLAG HANS HUBER
BERN SWITZERLAND
SUPERSEDES AKTUELLE PROBLEME IN DER CHIRURGIE.
INDEXING BEGAN WITH V1,1977 AND CEASED WITH V44,1994.
W1 AK995R 0378-8504
A19410000 JC: 335

IM AKTUELLE TRAUMATOLOGIE
AKTUELLE TRAUMATOL
4,1974—
GEORG THIEME VERLAG
STUTTGART GERMANY
CONTINUES ACTUELLE TRAUMATOLOGIE.
INDEXING BEGAN WITH V9N1,1979 AND CEASED
WITH 24N7,1994.
W1 AK996J 0044-6173
A19590000 JC: 2M5

HLI AMERICAN ECONOMIC REVIEW
AM ECON REV
1,1911—
AMERICAN ECONOMIC ASSOCIATION
NASHVILLE TN UNITED STATES
THIS TITLE IN NOT IN THE NLM COLLECTION.
INDEXING WITH V68N1,MAR 1978 AND CEASED WITH V84N5,DEC 1994.
REGIONAL HOLDINGS
0002-8282
A23595000 JC: AZT

IM ARCHIVIO PUTTI DI CHIRURGIA DEGLI ORGANI DI MOVIMENTO
ARCH PUTTI CHIR ORGANI MOV
1,1951—
EDIZIONI SCIENTIFICHE CLINICA \ ORTOPEDICA
DELL UNIVERSITA DI FIRENZE
FIRENZE ITALY
NO ISSUES PUBLISHED 1987-1988.
FREQUENCY VARIES: ANNUAL, VOLS. -36, (-1986); SEMI-ANNUAL, VOL. 37 (1989)- .
INDEXING FOR ONLINE FILES BEGAN WITH V21,1966 AND CEASED WITH V39N2,1991.
W1 AR597 0066-670X
A62970000 JC: 8E0

BTC BIO/TECHNOLOGY
BIOTECHNOLOGY (N Y)
1N1,MAR 1983—
NATURE PUBLISHING COMPANY
NEW YORK NY UNITED STATES
FREQUENCY VARIES. VOL. 1, NO. 1 PRECEDED BY AN ISSUE CALLED: COMPLIMENTARY CHARTER ISSUE.
INDEXING BEGAN WITH V8,1990 AND CEASED WITH V12N13,DEC 1994.
W1 BI918LW 0733-222X
B19835000 JC: AL1

BTC BIOPROCESS TECHNOLOGY
BIOPROCESS TECHNOL
1,1986—
MARCEL DEKKER
NEW YORK NY UNITED STATES
VOL. 8 UNDATED BUT CONSTITUTES 1990.
INDEXING BEGAN WITH V5,1990 AND CEASED WITH V22,1995.
W1 BI88U 0888-7470
SR0055743 JC: ALI

INI BULLETIN / AMERICAN ASSOCIATION FOR THE HISTORY OF NURSING
BULL AM ASSOC HIST NURS
N1,FALL 1982—
AMERICAN ASSOCIATION FOR THE HISTORY OF NURSING
WASHINGTON DC UNITED STATES
FIRST ISSUE UNNUMBERED.
INDEXING BEGAN WITH SPRING 1991 AND CEASED WITH N37,WINTER 1993.
W1 BU478HA 0898-6622
SR0056842 JC: BGQ

INI CARITAS
CARITAS
1,1934?—
ST JOHNS OF GOD BROTHERS
DUBLIN IRELAND
THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V49N49,1983-84 AND CEASED WITH V51N55, AUTUMN 1985.
ANA
C08037000 JC: CAR

HLI DEATH STUDIES
DEATH STUD
9N1,1985—
TAYLOR AND FRANCIS
WASHINGTON DC UNITED STATES
CONTINUES: DEATH EDUCATION.
IMPRINT VARIES.
INDEXING BEGAN WITH V9N2,1985 AND CEASED WITH V18N6,NOV-DEC 1994.
W1 DE107H 0748-1187
SR0054128 JC: GAS

HLI DUKE LAW JOURNAL
DUKE LAW J
1,1951—
DUKE UNIVERSITY. SCHOOL OF LAW.
DURHAM NC UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V1978N2,MAY 1978 AND CEASED WITH V43N6,APR 1994.
REGIONAL HOLDINGS
0012-7086
D21800000 JC: EDB

INI EMERGENCY NURSE
EMERG NURSE
MAR 25, 1992-NOV 4, 1992
NURSING STANDARD PUBLICATIONS
LONDON ENGLAND
JOURNAL OF THE RCN ACCIDENT AND EMERGENCY NURSING ASSOCIATION. SUPPLEMENT TO: NURSING STANDARD.
CONTINUED BY: ACCIDENT AND EMERGENCY NURSING.
INDEXING BEGAN WITH V6N27,MAR 25 1992 AND CEASED WITH V7N7,NOV 4, 1992.
W1 EM664DN
SR0074077 JC: BIA

INI FELDSHER I AKUSHERKA
FELDSHER AKUSH
1,1936—
MOSCOW RUSSIA
CONTINUES FELDSHER
INDEXING FOR ONLINE FILES BEGAN WITH V11,NOV 1965.
INDEXING CEASED WITH V57N1,JAN 1992.
W1 FE449 0014-9772
F04200000 JC: EVA

HLI FORTUNE
FORTUNE
1,1930—
TIME
CHICAGO IL UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V94N6, DEC 1976 AND CEASED WITH V130N13,DEC 26 1994.
REGIONAL HOLDINGS
0015-8259
F12640000 JC: F7B

HLI HARVARD LAW REVIEW
HARV LAW REV
1,1887—
HARVARD LAW REVIEW ASSOCIATION
CAMBRIDGE MA UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V89N4,FEB 1976 AND CEASED WITH V107N8,JUN 1994.
REGIONAL HOLDINGS
0017-811X
H02520000 JC: FZ7

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INI HSIANG-KANG HU LI TSA CHIH. HONG KONG
NURSING JOURNAL
HSIANG KANG HU LI TSA CHIH
1,1965—
HSIANG-KANG HU SHIH HUI
HONG KONG HONG KONG
FREQUENCY VARIES.
INDEXING BEGAN WITH MAY 1965 AND CEASED WITH N37,NOV 1984.
W1 HS793 0073-3253
H21460000 JC: GAB

INI INFIRMIERE AUXILIAIRE
INFIRM AUX
55N4,NOV/DEC 1982—
CORPORATION PROFESSIONNELLE DES INFIRMIERES ET INFIRMIERS AUXILIAIRES DU QUEBEC
MONTREAL CANADA
CONTINUES: L AUXILIARE.
INDEXING BEGAN WITH V57N1,MAY-JUN 1984 AND
CEASED WITH V65N2,DEC 1992.
W1 IN409C 0822-8558
I13110000 JC: GOM

INI INFIRMIERS
INFIRMIERS
1,1977-
SOCIETE SOPEPHARM
MEAUX FRANCE
ISSUED WITH THE PARTICIPATION OF NURSING SCHOOLS IN VARIOUS AFRICAN REPUBLICS.
CONTINUES REVUE DE L INFIRMIER D AFRIQUE NOIRE.
V17N1-2,JAN-FEB 1993 ONLY ISSUE INDEXED FOR MEDLINE.
W1 IN409S 0180-2224
I13180000 JC: BS8

HLI JOURNAL OF AGING AND HEALTH
J AGING HEALTH
1N1,FEB 1989—
SAGE PUBLICATIONS
NEWBURY PARK CAUNITED STATES
INDEXING BEGAN WITH V1N1,FEB 1989 AND CEASED WITH V6N4,NOV 1994.
W1 JO534BH 0898-2643
SR0063138 JC: AFS

HLI JOURNAL OF ECONOMIC PERSPECTIVES
J ECON PERSPECT
1N1,SUMMER 1987—
AMERICAN ECONOMIC ASSOCIATION
NASHVILLE TN UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V6N1, 1992 AND CEASED WITH V8N4,FALL 1994.
REGIONAL HOLDINGS
0895-3309
SR0070238 JC: BTB

HLI JOURNAL OF POLICY ANALYSIS AND MANAGEMENT
J POLICY ANAL MANAGE
1N1,FALL 1981—
JOHN WILEY AND SONS
NEW YORK NY UNITED STATES
FORMED BY THE UNION OF: POLICY ANALYSIS, AND: PUBLIC POLICY.
INDEXING BEGAN WITH V2N1,WINTER 1982 AND CEASED WITH V13N4,FALL 1994.
W1 JO837I 0276-8739
J35325000 JC: JRV

INI KENYA NURSING JOURNAL
KENYA NURS J
1,1972—
NATIONAL NURSES ASSOCIATION OF KENYA
NAIROBI KENYA
INDEXING BEGAN WITH V1N1,1972 AND CEASED WITH V19N1,JUN 1991.
W1 KE756N 0301-0333
K04220000 JC: KUW

IM MAGYAR TRAUMATOLOGIA, ORTOPEDIA, KEZSEBESZET, PLASZTIKAI SEBESZET
MAGY TRAUMATOL ORTOP KEZSEB PLASZTIKAI SEB
35N3,1992—
KIADJA A MAGYAR TRAUMATOLOGUS TARSASAG, A
MAGYAR ORTOPED TARSASAG, A
MAGYAR KEZSEBESZ
TAEASAG ES A MAGYARPLASZTIKAI SEBESZ TARSASAG
BUDAPEST HUNGARY
CAPTION TITLE: MAGYAR TRAUMATOLOGIA,ORTOPEDIA, KEZSEBESZET ES PLASZTIKAI SEBESZET. CONTINUES: MAGYAR TRAUMATOLOGIA, ORTHOPAEDIA ES HELYREALLITO SEBESZET.
INDEXING BEGAN WITH V35N3,1992 AND CEASED WITH V37N4,1994.
W1 MA408R
SR0078139 JC: BT8

INI MAINLINES
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1,1980?—
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INDIANAPOLIS IN UNITED STATES
OFFICIAL PUBLICATION OF THE MIDWEST ALLIANCE IN NURSING.
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INDEXING BEGAN WITH V13N1,1992 AND CEASED WITH V19N3,FALL 1992.
W1 MA49N 0278-9450
SR0076885 JC: BP6

HLI MICHIGAN LAW REVIEW
MICH LAW REV
1,1902—
MICHIGAN LAW REVIEW ASSOCIATION
ANN ARBOR MI UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V73N3,JAN 1975 AND CEASED WITH V92N8,AUG 1994.
REGIONAL HOLDINGS
0026-2234
M33680000 JC: MX4

INI NEW ZEALAND NURSING FORUM
N Z NURS FORUM
5N1,APR/MAY,1977-
NURSES SOCIETY OF NEW ZEALAND
AUCKLAND NEW ZEALAND
CONTINUES NURSING FORUM.
INDEXING BEGAN WITH V5N1,APR-MAY 1977 AND CEASED WITH V20N2,AUG-OCT 1992.
W1 NE977P 0110-7968
N16720000 JC: NZ6

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NOSELEUTIKE
N73,1979—
ETHNIKOS SYNDESMOS DIPLOMATOYCHON HELLENIDON NOSOKOMON
ATHENAI GREECE
CONTINUES: HELLENIS ADELPHE.
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W1 NO683C 1105-6843
N30470000 JC: AB9

INI NURSING PRACTICE
NURS PRACT
1N1,SPRING 1985-6N1,1992
SCUTARI PUBLICATIONS
LONDON ENGLAND
OFFICIAL JOURNAL OF: THE SOCIETY FOR NURSES IN ADVANCED PRACTICE. PUBLISHER VARIES: CHURCHILL LIVINGSTONE (EDINBURGH), VOL. 1 (1985-1986); ISSUED WITHOUT VOLUME NUMBERING AS A SECTION OF: NURSING TIMES (1986-1988?); VOL. 3 (1989)- PUBLISHED AND PRODUCED IN ASSOCIATION WITH: NURSING STANDARD (W1 NU758H).
INDEXING BEGAN WITH V1N1,SPRING 1985 AND CEASED WITH V5N2,1992.
W1 NU657T 0266-6146
SR0052331 JC: NUP

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IM ORTOPEDIIA TRAVMATOLOGIIA I PROTEZIROVANIE
ORTOP TRAVMATOL PROTEZ
1955—
MEDITSINA
KHARKOV UKRAINE
VOLS. FOR 1956-FEB. 1969 CALLED ALSO 17-30. ISSUED BY THE MINISTERSTVO ZDRAVOOKHRANIIA SOIUZA SSR, 1955- ; AND THE VSESOIUZNOE NAUCHNOE OBSHCHESTVO TRAVMATOLOGOV-ORTOPEDOV (VARIES SLIGHTLY), MAR. 1967- .
SUPERSEDES: ORTOPEDIIA I TRAVMATOLOGIIA.
IMPRINT VARIES.
INDEXING FOR ONLINE FILES BEGAN WITH V26N6,JUN 1965. INDEXING CEASED WITH N12,DEC 1991.
W1 OR875 0030-5987
O11440000 JC: OKY

BTC PROGRESS IN INDUSTRIAL MICROBIOLOGY
PROG IND MICROBIOL
1,1959—
ELSEVIER
AMSTERDAM NETHERLANDS
VOLS. 1-13 PUBLISHED BY CHURCHILL LIVINGSTONE, EDINBURGH, SCOTLAND.
INDEXING FOR IM BEGAN WITH V5,1964 AND CEASED WITH V13,1974.
INDEXING FOR BIOTECHSEEK BEGAN WITH V28,1990 AND CEASED WITH V29,1994.
W1 PR67J 0079-6352
P47960000 JC: Q1L

INI QUALITATIVE HEALTH RESEARCH
QUAL HEALTH RES
1N1,FEB 1991—
SAGE
NEWBURY PARK CA UNITED STATES
VOL 3N1,FEB 1993 ONLY ISSUE INDEXED FOR MEDLINE.
W1 QU158IH 1049-7323
SR0069121 JC: BQC

HLI QUARTERLY REVIEW OF ECONOMICS AND FINANCE
Q REV ECON FINANCE
32N1,SPRING 1992—
BUREAU OF ECONOMIC AND BUSINESS RESEARCH, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
CHAMPAIGN IL UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
THE OFFICIAL PUBLICATION OF THE MIDWEST ECONOMICS ASSOCIATION.
CONTINUES: QUARTERLY REVIEW OF ECONOMICS AND BUSINESS, WHICH IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V32N1,1992 AND CEASED WITH V34N4,FALL 1994.
REGIONAL HOLDINGS
1062-9769
SR0075584 JC: BMH

HLI RAND JOURNAL OF ECONOMICS
RAND J ECON
15N1,SPRING 1984—
RAND CORPORATION
SANTA MONICA CA UNITED STATES
CONTINUES: BELL JOURNAL OF ECONOMICS, WHICH IS NOT IN THE NLM COLLECTION. THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH 20N1,SPRING 1989 AND CEASED WITH 25N4, WINTER 1994.
REGIONAL HOLDINGS
0741-6261
SR0067334 JC: AK1

INI REVISTA GAUCHA DE ENFERMAGEM
REV GAUCHA ENFERM
1N1,1979?—
ESCOLA DE ENFERMAGEM DA UNIVERSIDADE FEDERAL DO RIO GRANDE E DO SUL
PORTO ALEGRE BRAZIL
INDEXING BEGAN WITH V5N1,JAN 1984 AND CEASED WITH V13N2,JUL 1992.
W1 RE58M 0102-6933
SR0053577 JC: REV

INI REVISTA PAULISTA DE ENFERMAGEM
REV PAUL ENFERM
1,1981—
ASSOCIACAO BRASILEIRA DE ENFERMAGEM-SECAO SAO PAULO
SAO PAULO BRAZIL
OFFICIAL ORGAN OF ABEN-SP.
INDEXING BEGAN WITH JAN-FEB 1981 AND CEASED WITH V11N1,JAN-APR 1992.
W1 RE7124V 0100-8889
R38655000 JC: S8K

INI REVUE DE L INFIRMIERE
REV INFIRM
21,1971—
EXPANSION SCIENTIFIQUE FRANCAISE
PARIS FRANCE
CONTINUES REVUE DE L INFIRMIERE ET DE L ASSISTANTE SOCIALE.
ABSORBED REVUE DE L INFIRMIERE. INFORMATIONS IN 1982.
INDEXING BEGAN WITH V21N1,1971 AND CEASED WITH V43N8,APR 1993.
W1 RE788R 0397-7900
R43460000 JC: S7T

INI RN IDAHO
RN IDA
1,AUG 1977—
IDAHO NURSES ASSOCIATION
BOISE ID UNITED STATES
SUPERSEDES THE GEM STATE RN NEWS LETTER.
INDEXING BEGAN WITH V2N1,JAN 1978 AND CEASED WITH V16N1, SPRING 1993.
W1 R118D 0192-298X
R52600000 JC: TWN

IM SCHWEIZERISCHE ZEITSCHRIFT FUR MEDIZIN UND TRAUMATOLOGIE
SCHWEIZ Z MED TRAUMATOL
94/1-
DRUCKEREI PAUL HAUPT
BERN SWITZERLAND
OFFICIAL ORGAN OF THE: SCHWEIZERISCHE GESELLSCHAFT FUR SPORTMEDIZIN.
CONTINUES: SCHWEIZERISCHE ZEITSCHRIFT FUR SPORTMEDIZIN.
INDEXING BEGAN WITH N1,1994 AND CEASED WITH N3,1994.
W1 SC544 1022-6699
SR0080893 JC: B1Z

INI SERIES ON NURSING ADMINISTRATION
SER NURS ADM
1,1988—
MOSBY-YEAR BOOK
ST. LOUIS MO UNITED STATES
CALLED ALSO: IOWA NURSING ADMINISTRATION SERIES.
PUBLISHED: MENLO PARK CA: ADDISON-WESLEY PUBLISHING, VOLS. 1-2 (1988-1989); ST. LOUIS MO: MOSBY-YEAR BOOK, VOL. 3 (1992)- .
INDEXING BEGAN WITH V1,1988 AND CEASED WITH V2,1989.
W1 SE72Q 0895-4364
SR0061684 JC: AT7

HLI STANFORD LAW REVIEW
STANFORD LAW REV
1,1948—
STANFORD LAW SCHOOL
STANFORD CA UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V27N2, JAN 1975 AND CEASED WITH V46N6,JUL 1994.
REGIONAL HOLDINGS
0038-9765
S37340000 JC: VBZ

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INI VIGILANDO
VIGILANDO
FALL 1991—
JOHNS HOPKINS NURSES ALUMNI ASSOCIATION
BALTIMORE MD UNITED STATES
ALUMNI MAGAZINE OF THE JOHN HOPKINS HOSPITAL SCHOOL OF NURSING. ONLY ONE ISSUE PUBLISHED IN 1991. CONTINUES: JOHNS HOPKINS NURSES ALUMNI MAGAZINE.
INDEXING BEGAN WITH FALL,1991 AND CEASED WITH V91N1,WINTER 1992.
W1 VI475
SR0072702 JC: BO2

IM ZEITSCHRIFT FUR UNFALLCHIRURGIE UND VERSICHERUNGSMEDIZIN
Z UNFALLCHIR VERSICHERUNGSMED
83N1,1990—
HANS HUBER
BERN SWITZERLAND
CONTINUES: ZEITSCHRIFT FUR UNFALLCHIRURGIE, VERSICHERUNGSMEDIZIN UND BERUFSKRANKHEITEN.
INDEXING BEGAN WITH V83N1,1990 AND CEASED WITH V87N3,SEP 1994.
W1 ZE629K 0040-3603
SR0068479 JC: ATE

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Gopher and e-mail File Server Assistance	admin@gopher.nlm.nih.gov
Grateful Med	gmhelp@gmedserv.nlm.nih.gov
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National Information Center on Health Services Research and Health Care Technology (HSTAR/HSTAT):	nichsr@nlm.nih.gov
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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
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Toxicology Information Program	toxmail@tox.nlm.nih.gov

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FTP	
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NLM Anonymous Server	nlmpubs.nlm.nih.gov
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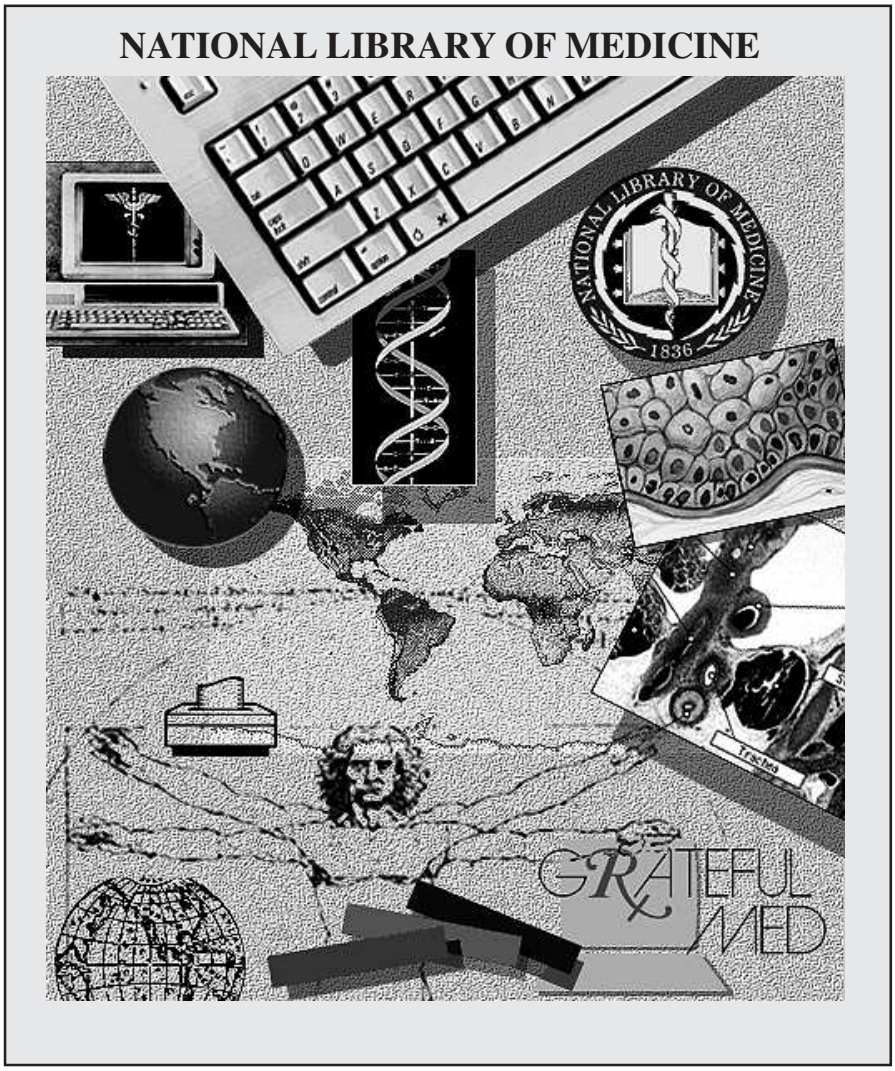

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