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Technical Bulletin

**MEDLARS
UPDATE**

**SPECIAL
ISSUE**

Introduction

Here is your annual Special Issue of the *Technical Bulletin* designed to help keep you up-to-date on changes to databases, systems, the Grateful Med® software and the Medical Subject Headings® — MeSH® — vocabulary.

In preparing this issue, information has been derived from the materials provided to NLM indexers during their annual orientation to the 1992 MeSH vocabulary. Materials in this issue complement information presented in the September-October 1991 and November-December 1991 *Technical Bulletin* issues. To keep you better informed -- in direct response to searchers' suggestions -- we spread out the information on changes throughout the fall issues rather than holding items for this Special Issue. For example, some items about MeSH, the notice about increased hours for the Service Desk, etc., were in the fall issues. Because of the large number of contributors, there are a variety of writing styles and search techniques.

Continued on page 5



MEDLARS® DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL® COMPUTER				
AIDSDRUGS	126		22 NOV 91	
AIDSLINE™**	56,137	JAN 80-DEC 91	05 NOV 91	9112(EM)
AIDSTRIALS	370		27 NOV 91	
AVLINE®	22,943	THROUGH 1991	05 DEC 91	
BIOETHICS®	33,399	JAN 73-JUN 91	16 NOV 91	9110(EM)
BIOTECHSEEK	1,652	JAN 90-NOV 91	07 DEC 91	9201(EM)
CANCERLIT®	841,205	JAN 63-OCT 91	02 NOV 91	9111(EM)
CATLINE®	685,643	THROUGH 1991	05 DEC 91	
CHEMID	183,665		28 JUL 90	
CHEMLINE®	1,072,879		12 OCT 91	9110(EM)
DENTALPROJ	778		02 MAR 91	
DIRLINE®	18,294		03 AUG 91	
DOCUSER	12,673		09 NOV 91	
HEALTH	582,154	JAN 75-NOV 91	07 DEC 91	9201(EM)
HISTLINE®	102,012		07 DEC 91	9112(EM)
MEDLINE®*	953,130	JAN 89-DEC 91	07 DEC 91	9201(EM)
MED86	1,009,402	JAN 86-DEC 88	07 DEC 91	
MED83	892,043	JAN 83-DEC 85	07 DEC 91	
MED80	803,688	JAN 80-DEC 82	07 DEC 91	
MED77	776,483	JAN 77-DEC 79	07 DEC 91	
MED72	1,176,277	JAN 72-DEC 76	07 DEC 91	
MED66	1,312,577	JAN 66-DEC 71	07 DEC 91	
MESH VOC®	80,076	1991	07 DEC 91	
NAME AUTH®	366,855		30 NOV 91	
PDQ®		THRU OCT 91	30 NOV 91	
POPLINE	186,087	1970-OCT 91	02 NOV 91	9111(EM)
SDILINE®	28,382	DEC 91	07 DEC 91	9201(EM)
SERLINE®	77,707	1991	05 NOV 91	
TOXLINE®	984,653	1981-1991	09 NOV 91	9111(EM)
TOXLINE65	681,326	PRE 1965-1980	11 MAY 90	
TOXLIT™	983,009	1981-1991	09 NOV 91	9111(EM)
TOXLIT65	586,405	1965-1980	01 SEP 87	

*N.B. FILE IS UPDATED WEEKLY; THIS IS PART 4 OF 4.

**N.B. FILE IS UPDATED WEEKLY; THIS IS PART 5 OF 5.

TOXNET® COMPUTER

CCRIS	3,262		04 DEC 91	
DART™	10,037		26 NOV 91	
DBIR™	1,804		07 NOV 91	
EMICBACK	71,871		08 JUL 90	
ETICBACK	49,593		08 JUL 90	
GENE-TOX	2,919		20 NOV 91	
HSDB®	4,307		20 NOV 91	
IRIS	590		02 DEC 91	
RTECS®	109,706		09 AUG 91	
TRI87	79,056		30 SEP 91	
TRI88	84,691		01 OCT 91	
TRI89	82,514		12 NOV 91	

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ENCLOSURE - 1990 Index to the *Technical Bulletin*

A particularly exciting development is the availability of the full text of clinical alerts online. Clinical alerts announce significant findings from NIH-funded clinical trials where such release could affect morbidity and mortality. They were first made available online in summary format a year ago. Immediate access to the full text of this data should be useful to everyone involved in the improvement of patient care.

You may have noticed our new Compliment/Concern Form introduced this fall. We have been receiving instructive criticism and helpful suggestions from searchers. If you have comments or concerns, please take a few minutes to send us your ideas for improvements. We value your input.

Carolyn B. Tilley
Head
MEDLARS Management Section

NLM Online Users' Meeting

This year's Online Users' Meeting will be held at the Medical Library Association annual meeting in Washington, D.C. in the Washington Ballroom of the Sheraton Washington Hotel. We will meet Monday, May 18, 12 Noon - 12:45 P.M. as part of the Lunch and Learn sessions. A box lunch will be available for purchase in the exhibits hall for you to bring to the meeting. As in the past, we will write up all questions and answers for publication later in the *Technical Bulletin*.

Grateful Med - Version 6.0

Introduction

Version 6.0 of Grateful Med for the PC is scheduled for release in June of 1992. As with earlier versions of Grateful Med, the National Library of Medicine (NLM) is adding new features and functions to this release.

All of Grateful Med's new capabilities are described in detail later in this article. However, some deserve immediate mention:

- The MeSH display has been expanded to include a display of MeSH hierarchies showing the "more specific terms" searched when selecting a term tagged with a plus sign (+).
- The Loansome Doc feature is automatically included during installation.
- Through re-working the communication aspects of Grateful Med, existing Novell and Internet connections can be used to access the NLM computer. If a Novell communication server or Internet software and cables are available in your institution, Grateful Med will be able to use those connections to access the NLM computer.
- The option to include current (1989 - 1992) and older references (back to 1966) in a single search request is available. (Grateful Med will do the search first in the current MEDLINE file and then again in each backfile as required to cover the years requested.)
- Selection of Publication Types and Journal Abbreviations using the F10 key has been added to the MEDLINE INPUT form screen.
- INPUT form screens for selected TOXNET databases and BIOETHICSLINE have been created for Version 6.0.

Enhancements to Grateful Med have always been made with two ideas in mind: making it easier for new users and offering more options to veteran Grateful Med searchers. With Version 6.0, the communications have been completely re-worked to be more flexible and allow the use of Grateful Med without having direct access to a modem.

The accompanying article on the technical side of Grateful Med 6.0 and on the specific uses of Grateful Med's new features includes important details on the new capabilities.

This article will describe the enhancements that make searching Grateful Med 6.0 easier and more powerful. More detailed explanations of all of these features will also be available in the Grateful Med User's Guide, the "How To" tutorial that will come with Version 6.0, and by pressing the <Home> key for help with Grateful Med.

More Options for the INPUT Screen

Current users of Grateful Med are familiar with selecting MeSH terms by pressing the F10 key on a SUBJECT WORDS line. With Version 6.0, the same principle has been extended so that users can easily select journal title abbreviations from the JOURNALS line or publication types from the PUBL TYPE line (currently the REVIEW line).

• Publication Type searching/selection

Grateful Med has always offered the easy option to limit your search to review articles, by pressing any character on the REVIEW ONLY line. This capability remains, but has been enhanced to include the ability to specify other publication types in addition to review articles.

You'll notice that the REVIEW ONLY line has been changed to PUBL TYPE. Press F10 while on this line to see a list of publication types from which to choose. You can select one or more. Of course if you press any character while on this line, Grateful

Med will still limit your search to review articles only, as it has in the past. Because most of MEDLINE (over 90 percent) consists of journal articles, it is recommended that you do NOT select Journal Article from the PUBL TYPE list.

- **Journal selection**

Similarly, you can now press F10 on the JOURNAL ABBREV line to select one or more journals for limiting your search. Grateful Med will display a list of 135 journals indexed for Abridged Index Medicus (not all 3500 journals indexed for MEDLINE). From the displayed list you may choose specific journal titles or you can select one of several pre-determined groupings, such as Dental,

Nursing, or Core Cancer Journals or you may choose all the journals displayed in the list by selecting AIM (Abridged Index Medicus). You can edit this listing by using TED or another text editor to type in journal abbreviations not currently in this list.

As in previous versions, you can simply type the word "journals" on the JOURNAL ABBREV line and limit your search to a small listing of biomedical journals. You can edit this listing, JOURNALS, using TED or another text-editor to add journals not currently on the list. This is especially useful if you want to limit your searches to a set of biomedical journals in your office or hospital library.

New Functions for F10:

F10 Pressing F10 on the PUBL TYPE or JOURNAL ABBREV line in a MEDLINE INPUT screen will present you with a list of publication types or journal title abbreviations, respectively. Pressing F10 on the CHEM NAME/RN line in the new TOXNET files, TRI and TRIALL, will present you with a list of possible chemical names to select. Of course, pressing F10 on a SUBJECT WORDS line will work as it has in previous versions and will bring you to the alphabetic display of MeSH terms.

- **Combined MEDLINE/Backfile (older material) searching**

In previous versions of Grateful Med, users had to run two searches to include more than three years of MEDLINE. Version 6.0 will allow you to search the full 26+ years of MEDLINE journals using one INPUT screen, saving you time and money. To do this, simply press F3 at anytime while on the MEDLINE INPUT screen. You then have the opportunity to enter the number of years prior to

1989 that you want to cover in your search. Press END to save your entry. Grateful Med will include the appropriate years in your search. You can also specify a range of years from this screen. This is especially useful if you want to retrieve something you know was published in a year before 1989. This same screen will appear when you select "Other" from the ACTION screen and then select "MEDLINE - Biomedical Journals (current and old)." (See Figure 1.)

MEDLINE (INCLUDING OLDER MATERIAL)

The full MEDLINE database covers the years 1966 through the present.

GRATEFUL MED will search only the current MEDLINE (1989 through the present) unless you indicate differently. To include older material (beyond the current MEDLINE) specify how many more years you would like searched.

Additional years back: [1989 to 1992]

Alternatively, specify a range of years between 1966 and the present.

Enter range of years: 19 through 19

Because of the way the NLM computer works, your search could cover a slightly wider range of years than you specify.

ESC - Cancel	↑↓ - Change Fields
END - Save & Return To Form Screen	HOME - Examples/Help

Figure 1 - Combined MEDLINE/Backfile Search Screen

New Function Key:

F3 Press F3 while on the MEDLINE INPUT screen to determine the number of years you want to include in one MEDLINE search.

• **Limit retrieval to only references with an abstract**

Grateful Med has always allowed you to include abstracts for those references that have them (and about 73% in the current MEDLINE file do). Now you can restrict your retrieval to only those references that *have* an abstract. This is useful when you want **ONLY** those references that contain abstracts. If

you select this option you will be limiting your search coverage to years from 1975 to current because abstracts were not entered to the database prior to 1975.

Simply press "O" for 'only' in response to the "DO YOU WANT TO RETRIEVE ABSTRACTS?" question.

New Function:

Type 'O' for references with abstracts 'only'.

• Optional editing of reformatted search strategy

Grateful Med has always offered you the option to review your reformatted search strategy by typing "V" for 'view' in response to the "OK TO GO ON TO SEARCH?" question. Now in addition to viewing the reformatted strategy, you can also edit it.

Press "E" while on the view screen and Grateful Med will set up TED (the tiny Text EDitor, first

included with Grateful Med in Version 5.0) and display your search strategy. Make your changes, press F7 to exit and save the changes, and Grateful Med will then run the search.

This is especially useful for making minor modifications to the print command, e.g., to retrieve "the rest" of a search you had previously stopped, or to add an additional print element.

New Function:

Press 'E' to edit.

Changes in the MeSH Display**• New screen design**

The display of instructions at the bottom of the MeSH display has been reorganized to make your options for selecting and browsing more distinct. The MeSH terms are easier to read with less extraneous information about the terms and more precise definitions.

• Deselection of terms

If you change your mind after selecting a term, you can now deselect it, simply by pressing <Enter> with the cursor on the term. Basically, <Enter> works as a selection/deselection toggle.

• + or * indicators available after selection

You can also change your mind about how you want to select a term as well. If you want to search a term with the + (plus more specific terms) or with the * (major concepts only), you can use either of these symbols before or after selecting the term.

Hint: since the + is used so much, we made it easier to use. The "=" key ("+" without the shift) works also to include more specific terms.

• F5 to see more specific terms

This feature, explained in detail in the September-October 1991 issue of the *Technical Bulletin*, allows you to see what terms will be included when you use the + sign with a term (EXPLODE capability). (See Figure 2.)

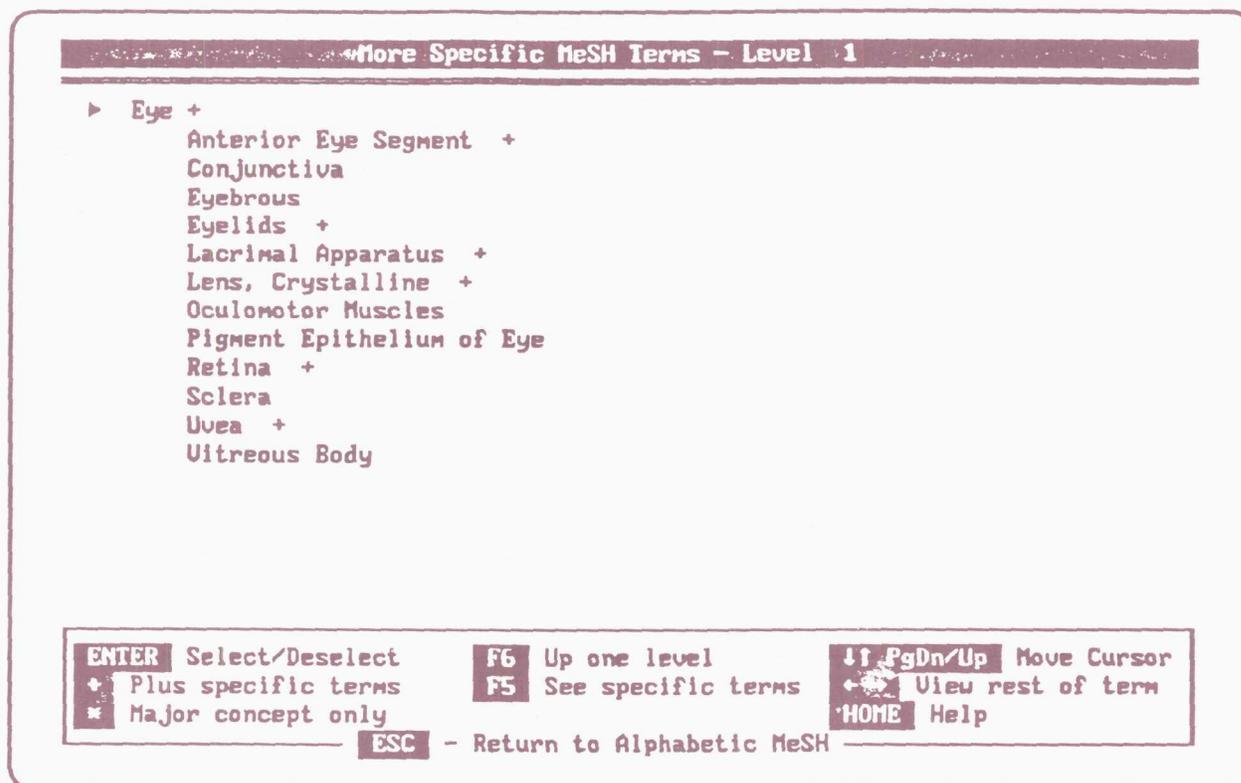


Figure 2 - More Specific MeSH Terms Screen

- **Improved, more complete notes on selected MeSH terms**

More notes have been added to MeSH terms with helpful explanations, and existing notes have been enhanced in many places; the new, longer notes can be read by using the right and left arrow keys.

You will also notice that notes (as well as the +) change to a high-intensity display as you cursor over the term. This is to make them easier to read on screens containing lots of long terms.

- **Error checking to prevent improper selections**

MeSH is also smarter. If you make a selection that will not work or is illogical (e.g., using the + on a term that has no specific terms under it), Grateful

Med will ignore your instruction and search the term correctly.

Also, those who look closely will notice that the (PX) "Pre-explosion" indicator is gone; Grateful Med will now use a PX whenever one is available without you having to select it.

- **MeSH screen scrolling**

As the final touch in making Grateful Med's MeSH selection easier, you can now scroll up and down in the Alphabetic (and more Specific terms) displays simply by using the up and down arrow keys; PgUp and PgDn are still available, but now they are not the only way to see those next few terms.

New Function Keys for MeSH:

F5 Pressing F5 allows you to see what terms will be included when you use the + sign with a term (EXPLODE capability). To do this, move the cursor next to a term tagged with a + sign and press F5.

F6 Once you have pressed F5 to see the more specific terms, press F6 to move "Up one level" back to the screen you were just viewing.

Up and Down arrow keys. Press the **Up** and **Down** arrow keys to scroll through the MeSH Displays.

<Esc> As with previous versions, pressing **<Esc>** from the Alphabetic MeSH display will bring you back to the INPUT screen. However, if you are looking at more specific terms, pressing the **<Esc>** key will return you to the Alphabetic MeSH display.

More searching features:

- **Re-display of saved file (Review option)**

As described in the September-October 1991 *Technical Bulletin*, Grateful Med will allow you to save your files in a format that can be reviewed again in the Grateful Med program.

- **Title page**

As described in the September-October 1991 *Technical Bulletin*, Grateful Med will offer you a chance to print your search strategy and name your search before you print the references you downloaded. This is especially useful if you want to attach the search strategy you used to the references you retrieved.

- **Loansome Doc Document Ordering Capability**

Loansome Doc is automatically included in the first installation of Version 6.0. No extra disks are required. A more detailed explanation of Loansome Doc appeared in the September-October 1991 *Technical Bulletin*.

- **Automatic, context-sensitive help for search failures**

Grateful Med has always offered suggestions if your search found nothing. In this version, Grateful Med will analyze what happened and present you with

specific advice on what to try next, based on the cause of the failure.

- **Automatic announcements of Clinical Alerts with option to retrieve**

Early in 1991, clinical alerts were added to the MEDLARS system to inform the medical community with information deemed by the National Institutes of Health (NIH) to be too important to wait for publication.

During the online interaction, Grateful Med will 'see' if a clinical alert has been posted on the MEDLARS system. If it has, Grateful Med will tell you what it is, and, via the NEXT STEP menu, provide you with the opportunity to retrieve the latest clinical alert(s).

Clinical alerts will also be stored in their own database, ALERT. You'll find the ALERT database listed in the OTHER Databases menu.

- **SETUP available from ACTION menu**

SETUP (the part of Grateful Med that allows you to enter phone numbers, passwords, etc.) has been returned to the ACTION screen. In Version 5.05, SETUP was only accessible from a DOS prompt. This will make it easier for you to correct information in SETUP or to make changes as necessary.

New Input Form Screens:

- ALERT
- BIOETHICSLINE
- ChemID
- AIDSTRIALS
- AIDS DRUGS
- SERLINE
- TOXNET
 - HSDB
 - CCRIS
 - RTECS
 - TRI

Version 6.0 will offer friendly INPUT form screens for searching several more MEDLARS and TOXNET files. See the September-October 1991 *Technical Bulletin* for descriptions of these files.

Next Step has More Options

After reviewing your references, the Next Step menu provides two more choices: 1) Get Alert and

2) Loansome. The 'Get Alert' option is described above. Selecting the option for Loansome Doc will bring you to the LOANSOME DOC ACTION screen. As with Version 5.15, this is the screen that presents you with all the options for ordering and tracking the documents you order. (See Figure 3.)

SELECT NEXT STEP

EDIT - Edit current search in MEDLINE database.

NEW - Edit current search in a new database.

OLDER - Run search against older material.

LOANSOME - Order, edit, print, delete selected items.

ACTION - Return to ACTION screen.

GET ALERT - Get Clinical Alerts.

QUIT - Quit searching.

USE THE ARROW KEYS TO HIGHLIGHT YOUR CHOICE AND PRESS ENTER

Figure 3 - Next Step Screen with Loansome Doc and Get Alert Options

Communications

Version 6.0 has made a large number of "behind-the-scenes" changes to allow for additional access methods. As mentioned in the September-October 1991 *Technical Bulletin*, you will notice that SETUP has been modified slightly to include the new access methods. During installation, you will have the options to install the Novell or Internet communications scripts to use these alternative methods.

- **Internet**

If you currently use NCSA Telnet or Wollongong Pathway Access software, Grateful Med Version

6.0 will be able to use these existing Internet communications links to connect to the NLM computer. Grateful Med does **NOT** include the NCSA or Wollongong Internet software. Grateful Med is designed only to provide access to the NLM computer and not to be the "bridge" to Internet. Grateful Med can use existing Internet cables and software to connect to the NLM computer.

- **Novell/NASI**

If you have access to a modem through a Novell communications server, Grateful Med will be able to use these existing links to connect to the NLM computer.

New Screen in SETUP:

Once you are in SETUP, you'll notice an extra screen listing the access methods you selected during installation. For example, if you answered 'yes' to the question 'Are you using Novell communications?' during installation, Grateful Med will offer you the following menu within SETUP:

```
Local Modem/PBX
NASI - Novell Network
Custom
```

Selecting 'NASI' will allow you to enter NASI parameters as well as phone numbers to be dialed.

Another Option for SETUP

As in previous versions, optional parameters, such as prompting for User ID code or enabling a mouse, are set by selecting the 'Other options' in SETUP. Another option has been added to the list, which logs each part of your Grateful Med interaction to a file called GMLOG.LST. This option should only be toggled to 'yes' for troubleshooting purposes.

Once you have completed SETUP for the MEDLINE/MEDLARS system, Version 6.0 is designed to 'carry over' some of your settings to the other services (PDQ and TOXNET). Once MEDLINE/MEDLARS is configured, the TOXNET system is completely configured and the PDQ SETUP only needs the PDQ password.

New Communication commands and messages

- **Stop the presses!**

In previous versions, Ctrl-Break was used to stop the online interaction. In Version 6.0, if you have trouble making a connection, you can press Ctrl-C or Ctrl-Break. Grateful Med will respond with "User interrupt detected" and then it will give you the option to Restart or Exit. If you want to try to login again using a different Network, simply press

the letter 'r' to Restart. If you want to stop searching, press 'e' to Exit.

- **Communication problem type**

There are new error messages that accompany Grateful Med's new communications programming. These messages will give you numbers that will make it much easier to track the problem and find a solution. Just look up the number of the problem that appears on your screen in the Troubleshooting section of your User's Guide and follow the steps outlined for you.

Grateful Med 6.0: Some Technical Details

Version 6.0 continues the tradition of enhancing the program to make it more powerful yet easier to use. As with any software product, the technical specifications change as the program evolves. Below you will find some of the specific details users should know about.

Memory and Hard Disk Requirements

The Random Access Memory (RAM) needed to run Grateful Med has increased to 512Kb required, with 640Kb recommended. A hard disk with at least 1.9Mb available is mandatory. However, with only 1.9Mb you will not have the ability to see more specific terms in the MeSH display. If you want to install the expanded MeSH feature that will display the more specific terms, you will need at least 2.5Mb available for Grateful Med on your hard disk.

Version 6.0 System Requirements

RAM	512Kb required, 640Kb recommended
Hard Disk	1.9Mb required, 2.5Mb for expanded MeSH

Disk Formats

All Version 6.0 packets include both sizes of floppy disks - 5 1/4" and 3 1/2" disks. The Grateful Med program comes on six 5 1/4" disks and three 3 1/2" disks.

Both formats are not required; just use whichever disks are compatible with the drives on your computer.

Installation Changes

Version 6.0 should NOT be installed over (in the same subdirectory as) any previous Grateful Med version. However, during installation of Version 6.0, you will be asked "Is this an upgrade from Version 5.0? (y/N)". If you answer 'y' to this question, the information in SETUP (i.e., User ID code, password, phone numbers), as well as any saved searches from your Grateful Med Version 5.0 will be transferred into your new Version 6.0 during installation. You must have Version 5.0 installed

on your hard disk and you must know the name of the subdirectory in which Grateful Med 5.0 is installed.

The procedure to install Grateful Med has changed for Version 6.0. You must insert Disk 1 into the A> or B> drive, then change to the A> or B> drive and finally, type 'install' to begin the installation program.

SETUP Features

The Grateful Med SETUP has a number of changes for Version 6.0:

1. SETUP is now accessible from the ACTION screen. Just start the Grateful Med program and select SETUP to change any phone numbers or other Grateful Med settings.
2. Reminder: You must configure a separate SETUP for each of the available services you intend to use: MEDLINE/MEDLARS, TOXNET, PDQ,

and the Grateful Med Bulletin Board System (BBS). Many of the values you enter for MEDLINE/MEDLARS are saved and become default values when you run the TOXNET and PDQ SETUPS the first time. In addition, there are "Other options," special custom parameters (e.g., enable mouse operation) that can only be activated using the MEDLINE/MEDLARS SETUP.

The first time you run SETUP, you will automatically enter the MEDLINE/MEDLARS SETUP. After completing this, you have the option to repeat SETUP for the remaining three services.

3. Telenet, one of the telecommunications networks available for use in Grateful Med, has changed its name to SPRINTNET. There are several telecommunications networks to select from when you are setting up your Grateful Med program - TYMNET, SPRINTNET, and CompuServe. Charges for using any of these networks are included in your MEDLARS charges—you do not have to establish a separate account with them. The telecommunications costs are incorporated in the Connect Charge (per hour) line item in the billing statement.

Generally, it makes no difference which network you have selected as your first choice (there is no difference in cost to you). Be sure to use the legend at the front of the listing of telephone numbers sent with your Grateful Med package to be sure you are using the appropriate numbers with each telecommunications network.

4. The option to use 300 baud and 9600 baud are now readily available in the Grateful Med SETUP. If you are considering purchasing a 9600 baud modem to access Grateful Med, please be advised that 9600 baud is currently available only in limited areas, usually large cities. Consult the listing of telephone numbers sent with your Grateful Med package to determine if your city has a 9600 baud telephone number.

5. If you do not presently have access to a Novell communication server, but acquire access at

a later time, you can install the correct files later by simply entering "ncsainst" at the DOS prompt in your Version 6.0 subdirectory. You will need to enter NASI parameters as well as phone numbers in SETUP. Remember to consult your Grateful Med User's Guide for detailed information regarding the use of a Novell communication server with Version 6.0.

6. If you gain access to the Internet after you have already installed Grateful Med, you can install the correct files by entering "winpinst" for Wollongong Internet software or "ncsainst" for NCSA Internet software, while at a DOS prompt in your GM6 subdirectory. You will need to select TCP/IP as one of your access methods in SETUP. Be sure to consult your Grateful Med User's Guide for detailed information regarding the use of Internet with Version 6.0.

Problem Solving

Several changes to Grateful Med make handling problems easier for users:

1. All communication error messages have been revised to include a specific problem number. A description of the problem and solution can be found in the Grateful Med User's Guide by referencing the problem type number in Chapter 8 - Troubleshooting.

2. The Troubleshooting Guide has been incorporated into the User's Guide, providing a single place to find solutions to common problems.

3. The communications portion of the Grateful Med program has been completely changed to allow for additional access methods, such as Internet and Novell. All of these changes have taken place behind-the-scenes and you should not notice any significant changes in the performance of Grateful Med. If you have a more unusual arrangement for connecting to the NLM computer, e.g., ROHLM modem pool, manual dialing, these changes will make it easier to use Version 6.0.

NLM Offers Full Text of Clinical Alerts Online

Background

As noted in the January-February 1991 *Technical Bulletin*, NLM began offering clinical alert notices online in January 1991. Clinical alerts were begun in order to expedite the release of findings from NIH-funded clinical trials where such release could significantly affect morbidity and mortality. The availability of clinical alerts is now announced in the MEDLARS broadcast message and NEWS command of the ELHILL system where a summary of fewer than 70 lines of text is displayed. Clinical alerts temporarily replace the regular NEWS items for online users which normally include information such as database updates. That information returns when the clinical alert notice is removed after 30 days. Users are directed to first type FILE ALERT then type NEWS to see the summary of the specified clinical alert because that file area is charged at reduced rates.

Next Step: Full Text of Clinical Alerts Online

On September 30, FILE ALERT became the new name for FILE INFORM to pave the way for clinical alert full-text retrieval online. FILE ALERT will continue to be the file in which to read online NEWS and online EXPLAINS at reduced rates and, effective immediately, has been expanded to contain the full text of all clinical alerts. (By the way, FILE INFORM remains an alias for FILE ALERT.) Clinical alerts will be retained indefinitely in the clinical alert portion of the ALERT file. Currently, there are seven clinical alerts from 1991 in the ALERT file. [Editors note: Clinical Alert #8 entered the system on 2/27/92. This article is based on the database as it appeared with only 1991 Clinical Alerts.]

How to Retrieve and Print Clinical Alerts

Figure 1 illustrates how to retrieve the most recent clinical alert in full text from the ALERT file. Clinical alert record #1 is the most recent alert. Clinical alert record #7 is the first clinical alert announced by NLM in January 1991. Alerts print in "last in, first out" order, meaning the latest alert prints out first. Figure 2 (beginning on page 22) shows how to produce a brief listing of all alerts available and how to select one alert other than the first to print in a summary format.

SS 1 /C?

USER:
file alert

PROG:

YOU ARE NOW CONNECTED TO THE ALERT (INFORM) FILE.

SS 1 /C?

USER:
(tf) alert

- The Title Field Text Word (TF) search on the term "alert" retrieves ALL clinical alerts in the system.

PROG:

SS (1) PSTG (7)

Figure 1 - Retrieving and Printing the Most Recent Clinical Alert

SS 2 /C?
 USER:
 prt 1 dl
 PROG:

- The PRT DL command displays the full text from the system. Remember that the latest clinical alert will print out first. PRT AR which lists the UI, DA, TI, SO, and AB is also available. The AB field contains a summary of usually fewer than seventy (70) lines of data.

1
 UI - AL000007
 DA - 911029
 TI - Clinical Alert: Findings of the Foscarnet-Ganciclovir Cytomegalovirus Retinitis Trial.
 SO - National Eye Institute (NEI)
 AB - Important information on survival in persons with AIDS who have CMV retinitis is being provided as a Clinical Alert (summary follows), while a publication is being prepared for submission to a peer-reviewed medical journal.
 AB - The Foscarnet-Ganciclovir Cytomegalovirus Retinitis Trial, supported by the National Eye Institute, is a randomized, multicenter clinical trial designed to evaluate the relative efficacy and safety of foscarnet and ganciclovir for the initial treatment of CMV retinitis. The trial's independent Policy and Data Monitoring Board recommended suspending the protocol because the data indicated that patients treated with foscarnet lived on average four months longer than those treated with ganciclovir. The difference in survival could not be explained by variations in disease severity at the time patients entered the study or to other chance factors. Nor could the mortality difference be fully explained by the differential use of zidovudine or other anti-retroviral drugs by patients in the two treatment groups. Foscarnet and ganciclovir appeared to be equally effective in halting the progression of CMV retinitis and preserving vision. While a survival benefit for foscarnet was seen in most patients, in the group of patients who entered the study with a predicted creatinine clearance <1.2 ml/min/kg, a survival benefit was seen for ganciclovir. Creatinine clearance (CrCl) is estimated from serum creatinine as: $CrCl = (140 - \text{age}) / (\text{creatinine} \times 72)$ for males; $CrCl = ((140 - \text{age}) / \text{creatinine} \times 72) \times 0.85$ for females.
 AB - These findings suggest that foscarnet may be the preferable initial treatment for CMV retinitis, with the exception of patients with decreased renal function. The complete Clinical Alert is available from the AIDS Clinical Trials Information Service, 1-800-TRIALS-A. This 800 number can be reached from Canada as well.
 AB - The treatment protocols for this alert have been mailed to all libraries that are members of the National Network of Libraries of Medicine.

Figure 1 - Retrieving and Printing the Most Recent Clinical Alert cont.

- FT - This alert informs you of findings from the Foscarnet-Ganciclovir Cytomegalovirus Retinitis Trial. This randomized, multicenter clinical trial is supported by the National Eye Institute, a component of the National Institutes of Health (NIH). It was conducted in collaboration with the AIDS Clinical Trials Group sponsored by the National Institute of Allergy and Infectious Diseases (NIAID) at NIH.
- FT - The trial was designed to evaluate the relative efficacy and safety of foscarnet and ganciclovir for the initial treatment of cytomegalovirus (CMV) retinitis in patients with AIDS. On October 7, the trial's independent Policy and Data Monitoring Board recommended suspending the protocol because the data indicated that patients treated with foscarnet lived on average four months longer than those treated with ganciclovir. The median survival for those treated with foscarnet was approximately 12 months, compared to eight months for those treated with ganciclovir. The difference in survival could not be explained by variations in disease severity at the time patients entered the study or to other chance factors.
- FT - Foscarnet and ganciclovir appeared to be equally effective in halting the progression of CMV retinitis and preserving vision. While a survival benefit for foscarnet was seen in most patients, in the group of patients who entered the study with a predicted creatinine clearance <1.2 ml/min/kg, a survival benefit was seen for ganciclovir.
- FT - Within the trial, anti-retroviral therapy [zidovudine (AZT), ddI, and ddC] was used according to best medical judgment. The difference in mortality between the foscarnet-treated patients and the ganciclovir-treated patients could not be fully explained by differential anti-retroviral use. However, the trial was not designed to study possible interactions between anti-CMV and anti-HIV treatments. Therefore, such an explanation cannot be ruled out.
- FT - These findings suggest that foscarnet may be the preferable initial treatment for CMV retinitis. A possible exception is the subgroup of patients with decreased renal function (predicted creatinine clearance <1.2 ml/min/kg) who appeared to do better on ganciclovir.
- FT - The complete findings from this study will be published soon. This announcement is being sent in advance of journal publication to physicians likely to treat patients with AIDS who have CMV retinitis. A press conference was held on October 21 at the National Institutes of Health.
- FT - For a copy of the treatment administration protocols used in this trial, you may contact one of the clinical investigators listed below or call 1-800-TRIALS-A.
- FT - Clinical Centers
- FT - Studies of the Ocular Complications of AIDS (SOCA)
- FT - _____

Figure 1 - Retrieving and Printing the Most Recent Clinical Alert cont.

- FT - California
- FT - Gary Holland, M.D.
- FT - Doris Stein Eye Research Institute
- FT - UCLA School of Medicine
- FT - 100 Stein Plaza
- FT - Los Angeles, California 90024-7007
- FT - Telephone: (213)825-9508
- FT - _____
- FT - William Freeman, M.D.
- FT - Eye Center, M-018
- FT - University of California at
- FT - San Diego
- FT - Osler Lane
- FT - La Jolla, California 92093
- FT - Telephone: (619) 534-3513
- FT - _____
- FT - James O'Donnell, M.D.
- FT - Beckman Vision Center
- FT - Department of Ophthalmology
- FT - University of California at
- FT - San Francisco
- FT - Box 0730, Room K-301
- FT - 10 Kirkham Street
- FT - San Francisco, California 94143
- FT - Telephone: (415) 476-1921
- FT - _____
- FT - Florida
- FT - Janet Davis, M.D.
- FT - Bascom Palmer Eye Institute
- FT - University of Miami
- FT - School of Medicine
- FT - 900 N.W. 17th Street
- FT - Miami, Florida 33136
- FT - Telephone: (305) 326-6377
- FT - _____
- FT - Illinois
- FT - David Weinberg, M.D.
- FT - Department of Ophthalmology
- FT - Northwestern University Medical
- FT - School
- FT - 645 North Michigan, Suite 520
- FT - Chicago, Illinois 60611
- FT - Telephone: (312) 944-7494
- FT - _____

Figure 1 - Retrieving and Printing the Most Recent Clinical Alert cont.

FT - Louisiana
FT - Bruce Barron, M.D.
FT - Eye Center
FT - Louisiana State University Medical
FT - Center
FT - 2020 Gravier Street, Suite B
FT - New Orleans, Louisiana 70112
FT - Telephone: (504) 568-6700 ext. 381
FT - _____
FT - Maryland
FT - Douglas A. Jabs, M.D.
FT - Wilmer Ophthalmological Institute
FT - The Johns Hopkins Medical
FT - Institutions
FT - 550 North Broadway, Suite 700
FT - Baltimore, Maryland 21205
FT - Telephone: (301) 955-2966
FT - _____
FT - Massachusetts
FT - Sarah H. Cheeseman, M.D.
FT - University of Massachusetts
FT - Medical Center
FT - Division of Infectious
FT - Diseases
FT - 55 Lake Avenue, North
FT - Worcester, Massachusetts 01655
FT - (508) 856-3158
FT - _____
FT - New York
FT - Murk-Hein Heinemann, M.D.
FT - Memorial Sloan-Kettering Cancer
FT - Center
FT - 1275 York Avenue, Suite A325
FT - New York, New York 10021
FT - Telephone: (212) 639-7237
FT - _____
FT - Alan Friedman, M.D.
FT - Department of Ophthalmology
FT - Mount Sinai School of Medicine
FT - Box 1183
FT - One Gustave L. Levy Place
FT - New York, New York 10029-6574
FT - Telephone: (212) 241-6241

Figure 1 - Retrieving and Printing the Most Recent Clinical Alert cont.

```

FT - _____
FT - Dorothy Friedberg, M.D.
FT - Department of Ophthalmology
FT - New York University Medical Center
FT - 310 Lexington Avenue
FT - New York, New York 10016
FT - Telephone: (212) 687-0265
FT - _____
FT - Texas
FT - Richard Lewis, M.D.
FT - Cullen Eye Institute
FT - Baylor College of Medicine
FT - 6501 Fannin, NC-200
FT - Houston, Texas 77030
FT - Telephone: (713) 798-6100
FT - _____
FT - NOTE: This Clinical Alert, as issued by the NIH, contained graphic or tabular
      material which precluded its presentation online.
    
```

Figure 1 - Retrieving and Printing the Most Recent Clinical Alert cont.

```

SS:1 /C?
USER:
(tf) alert

PROG:
SS (1) PSTG (7)      • At the time this search was run, there were 7
                     alerts online. The most recently entered alerts
                     come out first.

SS 2 /C?
USER:
prt

PROG:

1
UI - AL000007
DA - 911029
TI - Clinical Alert: Findings of the Foscarnet-Ganciclovir Cytomegalovirus Retinitis
     Trial.
SO - National Eye Institute (NEI)
    
```

Figure 2 - Getting a Brief Listing of All Clinical Alerts in the ALERT File

- 2
UI - AL000006
DA - 911021
TI - Clinical Alert: Important Therapeutic Information on Prevention of Recurrent Pneumocystis Carinii Pneumonia in Persons with AIDS.
SO - National Institute of Allergy and Infectious Diseases (NIAID)
- 3
UI - AL000005
DA - 910731
TI - Clinical Alert: Effect of enalapril on survival in patients with reduced left ventricular ejection fractions and congestive heart failure.
SO - National Heart, Lung, and Blood Institute (NHLBI)
- 4
UI - AL000004
DA - 910626
TI - Clinical Alert: Results of the NHLBI and NIA clinical trial of the efficacy of antihypertensive treatment for isolated systolic hypertension in those aged 60 years and older.
SO - National Heart, Lung, and Blood Institute (NHLBI)
SO - National Institute on Aging (NIA)
- 5
UI - AL000003
DA - 910313
TI - Clinical Alert: Benefits of adjuvant therapy for rectal cancer.
SO - National Cancer Institute (NCI)
- 6
UI - AL000002
DA - 910226
TI - Clinical Alert: Benefit of carotid endarterectomy for patients with high-grade stenosis of the internal carotid artery.
SO - National Institute of Neurological Disorders and Stroke (NINDS)
- 7
UI - AL000001
DA - 910118
TI - Clinical Alert: Results of the NICHD clinical trial of the efficacy of intravenous immunoglobulin (IVIG) for the prophylaxis of serious bacterial infections in symptomatic HIV-infected children.
SO - National Institute of Child Health and Human Development (NICHD)

Figure 2 - Getting a Brief Listing of All Clinical Alerts in the ALERT File cont.

SS 2 /C?

USER:

prt -2 ar

- To see the summary of the second record, in this case the sixth clinical alert of 1991.

PROG:

2

UI - AL000006

DA - 911021

TI - Clinical Alert: Important Therapeutic Information on Prevention of Recurrent Pneumocystis Carinii Pneumonia in Persons with AIDS.

SO - National Institute of Allergy and Infectious Diseases (NIAID)

AB - Important therapeutic information on prevention of recurrent Pneumocystis carinii pneumonia in persons with AIDS is being provided as a Clinical Alert (summary follows), while a publication is being readied for submission to a peer-reviewed medical journal.

AB - Interim results were recently reviewed from a clinical trial of trimethoprim/sulfamethoxazole (TMP/SMX) vs aerosolized pentamidine (AP) when given in conjunction with zidovudine for the prevention of recurrent Pneumocystis carinii pneumonia (PCP) in persons with AIDS. This study was conducted by the AIDS Clinical Trials Group (ACTG) of the National Institute of Allergy and Infectious Diseases (NIAID).

AB - ACTG 021 is a Phase III comparison study of the toxicity and efficacy of zidovudine (ZDV, 100 mg every 4 hours) combined with either (1) trimethoprim/sulfamethoxazole (TMP/SMX), one double-strength tablet daily, or (2) aerosolized pentamidine (AP), 300 mg every 4 weeks using the Marquest Respigard II nebulizer, for preventing recurrence of PCP and extending survival. When interim data from this trial were recently reviewed by an independent Data and Safety Monitoring Board (DSMB) convened by NIAID, the DSMB recommended early termination of the trial. The 1-year PCP recurrence rate was estimated to be 4.5 percent for participants randomized to TMP/SMX, and 18.5 percent for those randomized to AP. The 18-month PCP recurrence rates were estimated to be 11.4 percent and 27.6 percent, respectively. There were no statistically significant differences between the treatment groups in either survival or in the occurrence of hematologic or hepatic adverse events.

AB - While both regimens are effective, the results of this trial provide conclusive evidence of the superior efficacy of TMP/SMX in preventing or delaying recurrent PCP in participants who have had an initial episode of HIV-related PCP. The results may not apply to patients with less severe immunosuppression, intolerance to one or more of the study medicines, or no prior episode of PCP. The complete Clinical Alert is available from the AIDS Clinical Trials Information Service, 1-800-TRIALS-A. This 800 number can be reached from Canada as well.

AB - The full text of this alert has been mailed to all libraries that are members of the National Network of Libraries of Medicine.

The clinical alert records are not indexed with MeSH headings nor do they carry the names of

Figure 2 - Getting a Brief Listing of All Clinical Alerts in the ALERT File cont.

CLINICAL ALERT UNIT RECORD STRUCTURE

The clinical alert unit record has six data elements as follows:

1. UI (Unique Identifier): eight alphanumeric characters beginning with AL and ending with a sequentially assigned number. The UI is directly searchable.
2. DA (Date of Entry): the date the alert was entered online in MEDLARS. This may not be the same date as seen on hard copy versions of the full alert, as the Institute may prepare the latter many days in advance of notifying the NLM. The DA is directly searchable and rangeable.
3. TI (Title): the title of the clinical alert. For consistency, NLM will always begin the title with the phrase "Clinical Alert:". The remainder of the title is usually supplied by the Institute or extracted from the first sentence or two of the alert by the NLM. The TI is Text Word (TW) and Title Field Text Word (TF) searchable.
4. SO (Source): the name of the sponsoring Institute in the format of 'full name (acronym).' Both the single words from the full name and acronym are searchable as (TW) or as (SO). The (SO) qualifier limits retrieval to words occurring in the SO field.
5. AB (Abstract): a summary of the full text of the clinical alert, usually fewer than 70 lines of text. If the summary is more than one paragraph, each new paragraph is contained in a separate occurrence of the AB field. All occurrences of the AB are searchable as Text Words (TW). The PRT AR command lists the UI, DA, TI, SO, and AB fields.
6. FT (Full Text): the full text of the clinical alert including charts and tables. The structure of ELHILL requires that each new paragraph or line in a table be a separate occurrence of the FT. All occurrences of the FT are searchable as Text Words (TW). The FT prints as part of the PRT DL command.

The clinical alert records are not indexed with MeSH headings nor do they carry the names of the researchers/investigators in separate fields. Most searching of this specialized file will be by Text Words or by retrieving all records as shown in Figure 2 and browsing the titles, selecting ones of interest to print.

Other Facts

Remember that the ALERT file (formerly named the INFORM file) is searched at reduced rates; the online citation and online character charges are free. Therefore, it is the most cost-effective file in which to read the NEWS and online EXPLAINS as

well as the clinical alerts. Also because the clinical alerts are now available online in full text format, summaries of them will no longer be replacing the online NEWS, effective with the release of Version 6.0 Grateful Med (to be released in June 1992). At that time, the availability of a clinical alert will be announced in the broadcast message sent to all users

logging into MEDLARS (both the ELHILL and TOXNET systems). This broadcast message will continue to run for 30 days and will point users to the ELHILL NEWS command where there will be a brief message about the alert and instructions on how to access FILE ALERT to retrieve the complete text online.

Grateful Med searchers are reminded that the full text of the clinical alerts are also made available as files that may be downloaded from the Grateful Med Bulletin Board System (BBS). Version 6.0 (IBM) will utilize FILE ALERT to retrieve clinical alerts automatically. Until then, all Grateful Med users (both Macintosh and PC versions) must continue to use the INPUT form screen method

published in the January-February 1991 Gratefully Yours or choose Direct Access from the ACTION screen and follow the instructions in this article.

In addition to FILE ALERT and the Grateful Med BBS, NLM will continue to disseminate clinical alerts via mail to the members of the National Network of Libraries of Medicine, via FAX to resource libraries, and via Internet electronic mail to those institutions that have requested it. Additional information on NLM's procedures for clinical alerts, especially document delivery, is expected to be released in early 1992 in the regional newsletters. Paper copies of all the clinical alerts are available from NLM's Office of Public Information (OPI) at 301/496-6308.

DOCLINE Update

Extended Access Hours

DOCLINE is now available from 7:00 am to 10:00 pm eastern time, Monday through Friday, except on the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas. This expanded schedule will provide DOCLINE participants in the Western U.S. and Hawaii with more service during their normal hours of operation.

DOCLINE Access under VTAM

Last summer many DOCLINE participants helped the National Library of Medicine with testing DOCLINE's conversion to the Virtual Telecommunications Access Method (VTAM). VTAM is a telecommunications application that translates and formats data originating from many different terminals into information that can be understood by programs residing on the NLM mainframe computer. During the fall, software modifications for the conversion of the DOCLINE system were completed. In November and December of 1991, two production copies of the DOCLINE software were operating on the NLM computer. One copy operated under the old Time Sharing Option (TSO) and the other copy operated under the new VTAM. Targeted groups of DOCLINE participants were brought in under VTAM access in phases.

NLM staff, National Network/Libraries of Medicine DOCLINE Coordinators and the resource libraries in the network began accessing the VTAM copy of DOCLINE in December. Their participation provided valuable information to NLM. Problems detected by these libraries were reviewed and the VTAM copy of DOCLINE was modified. The next phase called for all DOCLINE participants with User ID codes ending in 61 or 62 to use VTAM. In the final phase all DOCLINE participants accessed

the VTAM copy. NLM discontinued the TSO copy on February 24, 1992.

New Logon Procedure

To access DOCLINE under VTAM, participants should have changed their logon procedures

from: **LOGON USERID/PASSWORD**
(e.g., logon xxx61/password),
to: **DOCLINE USERID/PASSWORD**
(e.g., docline xxx61/password).

Should the VTAM copy of DOCLINE not be available, you will receive the message **SESSION NOT BOUND** from the NLM computer. For example:

```
PLEASE ENTER LOGIN
```

```
docline abc61/star  
SESSION NOT BOUND
```

If you see the **SESSION NOT BOUND** message, please try later.

There are no changes in the format of DOCLINE system prompts, system messages, or display of data. None of the modules or system messages have been changed! There will, however, be noticeable enhancement in system performance. VTAM processes data faster than TSO.

Should you have any questions, or if there are any problems with VTAM, please call the DOCLINE Service Desk at 1-800-633-5666 to report the problem. We would appreciate receiving a copy of a screen print displaying the problem. It may be faxed to the DOCLINE Service Desk at (301) 496-2809.

QUICKDOC users: Check with QUICKDOC's developer should you have any problems with the program's VTAM-access to the DOCLINE command file.

SORTing in TOXNET Files Other than TRI

The ability to SORT records in TOXNET was originally implemented for the TRI series of files, to organize the numeric data better and to generate displays of records alphabetically by a wide variety of fields such as chemical name or facility name, state, city. TRI sorting was introduced in the January-February 1991 *Technical Bulletin* (pages 32-36) and the more advanced SORT features were reviewed on pages 26-32 of the March-April 1991 *Technical Bulletin*. The SORT feature has now been extended to selected fields for all of TOXNET's files.

The format for a basic sort is:

SORT [mnemonic(s)]

Applying this format, one could sort retrieved HSDB records by CAS Registry Number by entering:

SORT RN

This is considered a one-level sort. Sorting of up to six levels is permitted on the TOXNET system. A

typical three-level sort for the DART file might be:

SORT YR TA AU

In this case, retrieved records are sorted first by year of publication, then within each year by journal title abbreviation, and within each journal title abbreviation by the first author's last name. Note that the SORT command itself simply instructs the computer to process the SORT requested. In order to view the sorted records, you must then issue a PRINT command, such as PRT ONLY CIT YR TA.

A maximum of 500 postings can be sorted online and a maximum of 3000 postings can be sorted offline. For an offline PRINT, you must combine the SORT with the PRINT command in this manner:

PRT OFFLINE [option] SORT [mnemonic(s)]

The above online SORT in DART, for example, might take the following form as an offline SORT, if you want to view the bibliographic information:

PRT OFFLINE BIB SORT YR TA AU

Categories, headers, and data tabs are not sortable. See Figure 1 below for the file-specific data fields that are sortable.

DART:	YR, DTN, AU, TI, SI, SO, TA
ETICBACK:	YR, ETBN, AU, TI, SI, SO, TA, JT
EMICBACK:	YR, EMBN, AU, TI, SI, SO, TA, JT
HSDB:	DATE, HSN, MW, NAME, RN, OHMN, RTEC, WLN
RTECS:	DATE, RTN, MW, NAME, RN, WLN
IRIS:	DATE, IRSN, MW, NAME, RN
CCRIS:	DATE, CCN, NAME, RN
GENE-TOX:	DATE, GTN, NAME, RN
DBIR:	DBN, ONM, RNM

Figure 1 - Sortable Fields by Database

SORTs are displayed in ASCENDING sequence (0-9, A-Z), unless the DESCENDING option (Z-A, 9-0) is specified. Thus, in IRIS, consider the following two commands:

```
SORT NAME
SORT NAME D
```

The first command will sort the records in alphabetical order by substance name, while the second command will sort the records in reverse alphabetical order by substance name. Many substance names are composed of both numbers and letters. Chemicals are sorted primarily by the main alphabetic portion of the chemical name. For sort purposes, leading or embedded characters (alphabetic or numeric) that indicate ring positions or isomers, are treated as if they actually appeared at the end of the chemical name. Thus, TOXNET would alphabetically sort 4-acetylaminofluorene and 2-aminobenzamide as if they were acetylaminofluorene4 and aminobenzamide2.

You may review the SORTs requested in any search session by entering DISPLAY SORT. Multiple SORTs may be performed on the same retrieval set. Your PRINT command will display from the most current sorted retrieval set, unless otherwise specified. Let's say you have done the following three sorts on the same RTECS retrieval set:

1. SORT NAME
2. SORT DATE
3. SORT RN

Entering PRT HITS, will display the HITS sorted by RN, the most current sorted retrieval set. For a display of the HITS sorted by NAME, for example, you must type PRT HITS BY 1. "1" signifies the first SORT performed on the retrieval set.

SORTing may be performed in the CROSSFILE environment, within the RN-linked files (HSDB, RTECS, CCRIS, IRIS, GENETOX). This SORT, though, will uncouple the CROSSFILE linkages between records and sort the records individually in strict sort order, not as a linked-group.

The availability of SORTing for all TOXNET files allows for a more coherent organization of data, according to user specifications. In the case of TOXNET's factual data banks, SORTing makes it easier to analyze data within a file as well as to compare data between files. SORTing for bibliographic files, such as DART, will facilitate the creation of bibliographies. A list of references sorted by journal title abbreviation could also simplify actual retrieval of journals from the stacks. Figures 2 - 4 present several examples of TOXNET SORTing in non-TRI files.

What HSDB chemicals are used as, or in the manufacture of, photographic developers?
[Sort by Name of Substance]

[HSDB] SS 1 /cf?

USER:

same (use) all photog: and all develop:

Search in progress
42 OCCURRENCES IN 39 RECORDS

Figure 2 - SORTing by Name of Substance in HSDB

SS (1) PSTG (39)

[HSDB] SS 2 /cf?

USER:

sort name

Sort in progress

SORT COMPLETED ON 39 RECORDS

- Note: Records sorting on main alphabetic portion of chemical name.

[HSDB] SS 2 /cf?

USER:

prt 1:5 name hits only cont

1 - HSDB

NAME- **2-AMINOPHENOL**

USE - CHEMINT FOR HETEROCYCLIC COMPOUNDS (EG, BENZOXAZOLONES);
CHEM INT FOR AZO & SULFUR DYES (FUR AND HAIR DYE PRODUCTS);
DEVELOPER IN PHOTOGRAPHIC INDUSTRY [SRI] **PEER REVIEWED**

2 - HSDB

NAME- **4-AMINOPHENOL**

USE - DYEING TEXTILES, HAIR, FURS, FEATHERS; PHOTOGRAPHIC
DEVELOPER; PHARMACEUTICALS; ANTIOXIDANTS, OIL ADDITIVES
[Hawley, G.G. The Condensed Chemical Dictionary. 9th ed. New York: Van
Nostrand Reinhold Co., 1977. , p. 45] **PEER REVIEWED**

USE - DYE FOR TEXTILES, HAIR, FURS, FEATHERS; PHOTOGRAPHIC
DEVELOPER; CHEM INT FOR THE ANALGESIC, PHENACETIN, AND FOR
OTHER ANALGESICS & ANTIPYRETICS; CHEM INT FOR THE DYES,
DISPERSE YELLOW 1, ACID YELLOW 40, AND ACID YELLOW 76 [SRI]
PEER REVIEWED

3 - HSDB

NAME- **P-AMINOPHENOL HYDROCHLORIDE**

USE - PHOTOGRAPHIC DEVELOPER; INT IN MFR OF SULFUR AND AZO DYES;
IN DYEING FURS AND FEATHERS/P-AMINOPHENOL/[The Merck Index. 9th
ed. Rahway, New Jersey: Merck & Co., Inc., 1976. , p. 64] **PEER REVIEWED**

Figure 2 - SORTing by Name of Substance in HSDB cont.

- 4 - HSDB
 NAME- **AMMONIUM HYDROXIDE**
 USE - TEXTILES; MFR OF RAYON, RUBBER; CONDENSATION POLYMERIZATION; PHARMACEUTICALS; CERAMICS; PHOTOGRAPHY (DEVELOPMENT OF LATENT IMAGES); AMMONIA SOAPS; LUBRICANTS; FIREPROOFING WOOD; INK MFR; AMMONIUM CMPD; SAPONIFYING FATS & OILS; ORG SYNTH; DETERGENT; HOUSEHOLD CLEANSER; FOOD ADDITIVE [Sax, N.I. and R.J. Lewis, Sr. (eds.). Hawley's Condensed Chemical Dictionary. 11th ed. New York: Van Nostrand Reinhold Co., 1987. , p. 68] **PEER REVIEWED**
- 5 - HSDB
 NAME- **AMMONIUM METAVANADATE**
 USE - As a photographic developer; as a reagent in analytical chemistry [The Merck Index. 10th ed. Rahway, New Jersey: Merck Co., Inc., 1983. , p.82]

Figure 2 - SORTing by Name of Substance in HSDB cont.

In DART, what articles refer to chemically induced learning disorders?
 [Sort by author]

You are now connected to the following file:

DEVELOPMENTAL AND REPRODUCTIVE TOXICOLOGY

For citations to literature published from 1950-1989, search ETICBACK.

[Editor's Note: However, there is some overlap in publication dates between DART and ETICBACK, especially for 1988 and 1989 as is evidenced by the dates on citations 2, 4 and 6.)

[DART] SS 1 /cf?

USER:

learning disorders/chemically induced

Search in progress

SS (1) PSTG (6)

[DART] SS 2 /cf?

USER:

sort au

Figure 3 - SORTing by Author in DART

Sort in progress
SORT COMPLETED ON 6 RECORDS

[DART] SS 2 /cf?

USER:

prt cit only compr

1 - DART
SI - MED/90137711
AU - **ANONYMOUS**
TI - Learning handicaps linked to drug exposure [news]
SO - Ohio Med 1990 Jan;86(1):14

2 - DART
SI - MED/89143315
AU - **Archer T** ; Hiltunen AJ ; J:arbe TU ; Kamkar MR ; Luthman J ; Sundstr:om E ; Teiling A TI - Hyperactivity and instrumental learning deficits in methylazoxymethanol-treated rat offspring.
SO - Neurotoxicol Teratol 1988 Jul-Aug;10(4):341-7

3 - DART
SI - MED/91307069
AU - **Hu H**
TI - Knowledge of diagnosis and reproductive history among survivors of childhood plumbism.
SO - Am J Public Health 1991 Aug;81(8):1070-2

4 - DART
SI - MED/89013705
AU - **Sadava D** ; Sutcliffe D
TI - The effects of maternal hyperphenylalaninemia on learning in mature rats.
SO - Life Sci 1988;43(14):1119-23

5 - DART
SI - MED/90188111
AU - **Van Dyke DC** ; Fox AA
TI - Fetal drug exposure and its possible implications for learning in the preschool and school-age population.
SO - J Learn Disabil 1990 Mar;23(3):160-3

6 - DART
SI - MED/89376787
AU - **Yanai J** ; Laxer U ; Pick CG ; Trombka D
TI - Dopaminergic denervation reverses behavioral deficits induced by prenatal exposure to phenobarbital.
SO - Brain Res Dev Brain Res 1989 Aug 1;48(2):255-61

Figure 3 - SORTing by Author in DART cont.

In DART, what developmental and reproductive studies have been conducted with Long Evans rats?

[Multi-level sort by journal title abbreviation, author, and year of publication.]

[DART] SS 1 /cf?

USER:

same (ab) long and evans and rats

Search in progress

- Same is an instruction to the computer to look for the terms within the same abstract field. In some TOXNET files, records have more than one abstract.

SS (1) PSTG (50)

[DART] SS 2 /cf?

USER:

sort ta au yr

Sort in progress

SORT COMPLETED ON 50 RECORDS

- SORT is performed first by journal title abbreviation, within that by primary author's last name, and then by year of publication.

[DART] SS 2 /cf?

USER:

prt 1:10 only cit yr ta compr

- 1 - DART
- SI - TER/91000972
- AU - **Church MW** ; Overbeck GW ; Tilak J ; Holmes P
- TI - Combined effects of prenatal cocaine and alcohol exposure on offspring maturation.
- SO - Abstr Soc Neurosci 1990;16(1):33
- YR - **1990**
- TA - **Abstr Soc Neurosci**

- 2 - DART
- SI - MED/89287022
- AU - **Dow-Edwards DL** ; Trachtman H ; Riley EP ; Freed LA ; Milhorat TH
- TI - Arginine vasopressin and body fluid homeostasis in the fetal alcohol exposed rat.
- SO - Alcohol 1989 May-Jun;6(3):193-8
- YR - **1989**

Figure 4 - SORTing in DART by TA, AU and YR

TA - **Alcohol**
3 - DART
SI - MED/89287023
AU - **Lancaster FE** ; Spiegel KS
TI - Voluntary beer drinking by pregnant rats: offspring growth, development and behavior.
SO - Alcohol 1989 May-Jun;6(3):199-205
YR - **1989**
TA - **Alcohol**

4 - DART
SI - MED/89287024
AU - **Lancaster FE** ; Spiegel KS
TI - Voluntary beer drinking by pregnant rats: offspring sensitivity to ethanol and preference for beer.
SO - Alcohol 1989 May-Jun;6(3):207-17
YR - **1989**
TA - **Alcohol**

5 - DART
SI - MED/90024215
AU - **Abel EL**
TI - Paternal and maternal alcohol consumption: effects on offspring in two strains of rats.
SO - Alcohol Clin Exp Res 1989 Aug;13(4):533-41
YR - **1989**
TA - **Alcohol Clin Exp Res**

Figure 4 - SORTing in DART by TA, AU and YR cont.

MEDLINE Update

In mid-December as a result of Year-End Processing, pre-1989 references indexed during 1991 (because these journals with older publication dates were received during 1991) were pulled from MEDLINE and placed in the appropriate Backfiles. There is no change in the names of the MEDLINE Backfiles or

their coverage this year. MEDLINE retains 1989 data forward, once again becoming a 3-year-growing-to-4-year file. The primary dates of coverage for MEDLINE and its Backfiles for 1992 are as follows:

File	Aliases	Coverage	Approximate Number of Records
MEDLINE	MED	1989-1992	1,047,565
MED86	M86, BACK86, B86	1986-1988	1,009,402
MED83	M83, BACK83, B83	1983-1985	892,034
MED80	M80, BACK80, B80	1980-1982	803,673
MED77	M77, BACK77, B77	1977-1979	776,481
MED72	M72, BACK72, B72	1972-1976	1,176,234
MED66	M66, BACK66, B66	1966-1971	1,312,547

Update Schedule

MEDLINE is updated weekly at NLM. The update schedule is republished in Appendix A. SDILINE remains on a monthly update schedule (Appendix B) as do the SDILINE automatic SDIs. For the most current data, you'll want to search MEDLINE. If you need to limit your search to those records entered in a single weekly update there are search hints provided at the end of the MEDLINE update schedule in Appendix A.

Years of Coverage

As part of Year-End Processing activities, NLM moved citations from MEDLINE into the appropriate Backfile based on the year of publication (YR) of the cited article. Throughout the indexing

year, though, NLM continues to index journal issues that were previously missed or delayed for various reasons. These citations are added to MEDLINE regardless of their year of publication. Each December, NLM "re-levels" MEDLINE and moves the citations into the correct backfile according to the year of publications. The advantages of "re-leveling" include:

1. Files are oriented by publication year (not year of indexing) and
2. When you need to find or verify a citation you have the ability to pinpoint the file to search by year of publication.

A side effect of "re-leveling" is that newer MeSH headings will often find retrieval in older Backfiles. This situation results when older publications are

received, indexed with current MeSH and then moved to the appropriate Backfile in December. For example, OCCUPATIONAL EXPOSURE was

introduced as a MeSH Heading in 1991. Yet, if you search on this term in the MED86 file (1986-1988), you will retrieve two citations. See Figure 1 below.

SS 1 /C?

USER:

file m86

PROG:

YOU ARE NOW CONNECTED TO THE BACK86 (1986 - 88) FILE.

SS 1 /C?

USER:

occupational exposure

PROG:

SS (1) PSTG (2)

SS 2 /C?

USER:

prt ui, ti, so

PROG:

- The Unique Identifier (UI) shows these citations were added to the database in 1991.

1

UI - **91224433**

TI - [Exposure to metals in dental laboratories]

SO - G Ital Med Lav 1988 Nov;10(6):221-9

2

UI - **91138928**

TI - [Sanitary surveillance of workers occupationally exposed to volatile anesthetics: proposal for a computerized program for data collection and processing]

SO - G Ital Med Lav 1988 Jul-Sep;10(4-5):187-92

Figure 1 - Retrieval in MED86 with OCCUPATIONAL EXPOSURE

However, searcher beware! While it is true that these citations are indexed to OCCUPATIONAL EXPOSURE and they are relevant, there are many more citations in this Backfile on this subject. This is because the rest of the citations in this file on this subject were indexed before OCCUPATIONAL

EXPOSURE was an available MeSH heading. As illustrated in Figure 2, checking File MeSH shows the headings that were used prior to 1991 in the Previous Indexing (PI) field and a suggested search strategy in the Online Note (OL) field. The History Note (HN) field indicates that Occupational Exposure

existed as a See reference to ENVIRONMENTAL EXPOSURE for two years prior to its being made a MeSH Heading in 1991. These fields indicate that combining the heading ENVIRONMENTAL

EXPOSURE with OCCUPATIONAL DISEASES would be a good search strategy for retrieval on this subject prior to 1991. See Figure 2 below.

USER:

file mesh

PROG:

YOU ARE NOW CONNECTED TO THE MESH VOCABULARY (1992) FILE.

SS 1 /C?

USER:

occupational exposure

PROG:

SS (1) PSTG (1)

SS 2 /C?

USER:

prt mh, pi, hn, ol

PROG:

1

MH - Occupational Exposure

PI - Environmental Exposure (67-90)

PI - Occupational Diseases (66-89)

HN - 91; was see ENVIRONMENTAL EXPOSURE 1989-90

OL - use ENVIRONMENTAL EXPOSURE to search OCCUPATIONAL EXPOSURE 1989-90

Figure 2 - Checking OCCUPATIONAL EXPOSURE in File MeSH

The search shown in Figure 3 illustrates the much larger retrieval (compared with Figure 1) obtained by using the older heading ENVIRONMENTAL

EXPOSURE combined with OCCUPATIONAL DISEASES EXPLODED and using the Title Field Text Words (TF) search capability.

SS 1 /C?

USER:

file med86

PROG:

YOU ARE NOW CONNECTED TO THE BACK86 (1986 - 88) FILE.

SS 1 /C?

USER:

environmental exposure

PROG:

SS (1) PSTG (1853)

SS 2 /C?

USER:

exp occupational diseases

PROG:

SS (2) PSTG (8006)

SS 3 /C?

USER:

1 and 2

PROG:

SS (3) PSTG (312)

SS 4 /C?

USER:

(tf) all occupation: and 1

PROG:

SS (4) PSTG (228)

SS 5 /C?

USER:

3 or 4

PROG:

SS (5) PSTG (463)

Figure 3 - Retrieving on the Concept Occupational Exposure in MED86

SS 6 /C?

USER:

prt 5 ti

PROG:

1

TI - Somatic mutation in peripheral lymphocytes of former workers at the Okunojima poison gas factory.

2

TI - The fate of people with pleural hyalinosis (plaques): relationship to direct and indirect asbestos exposure.

3

TI - Residues of polychlorinated biphenyls in breast milk of women non-occupationally exposed to PCBs.

4

TI - [The modification of different element levels in human blood by occupational cadmium exposure]

5

TI - NIOSH recommendations for occupational safety and health standards 1988.

Figure 3 - Retrieving on the Concept Occupational Exposure in MED86 cont.

Reminder

The total number of files in the MEDLINE family continues to be seven. This still exceeds the number of databases that can be searched in one OFFSEARCH, which is six. The following options are available to you if you need to search all seven files with one command language strategy:

1. Use the MFS command to conduct a MultiFile Search.
2. Consider using SAVE or SAVESEARCH to record your strategy; then access each

file, run the search name, and print the results.

3. Execute an OFFSEARCH while connected to the MEDLINE file, specifying only the Backfile names for the FILES? question. Finish the OFFSEARCH and then order an offline print or print online for the MEDLINE retrieval.
4. Do two OFFSEARCHes and divide up the names. Recommended only if your strategy is simple.

AIDSLINE Update

AIDSLINE strategy used for 1992 updates is reproduced in Figure 1 on pages 40-41.

Rebuilding

AIDSLINE was rebuilt with 1992 MeSH and made available on January 28, 1992. With this regeneration the entire file, containing 60,660 citations, is searchable with 1992 MeSH.

The search strategy used to rebuild AIDSLINE was expanded to include new 1992 AIDS-related MeSH Headings and the Journal Title Abbreviations (TA) of AIDS-related journals that have recently been selected for inclusion in Index Medicus. The current

Overview

AIDSLINE is a composite file containing several subfiles pulled from other MEDLARS databases and additional subfiles containing meeting abstracts that have been added directly to AIDSLINE. Below is a chart of the mnemonics and their corresponding file or input source. These mnemonics appear in the Secondary Source ID (SI) field of the AIDSLINE record followed by a unique identifier (i.e., AHA/xxxxxxx) and they are directly searchable.

MNEMONIC	SOURCE
AHA	HEALTH database
ASM	*AMERICAN SOCIETY FOR MICROBIOLOGY
AV	AVLINE database
CAT	CATLINE database
ICA	*INTERNATIONAL CONFERENCE ON AIDS
ICDB	CANCERLIT database
MED	MEDLINE database
PRIM	*SYMPOSIUM ON NONHUMAN PRIMATE MODELS FOR AIDS

* These are the meeting abstract subfiles. Each mnemonic value is followed by a numeric value that represents the number of the meeting (e.g., an SI beginning with ICA5/ means the abstract was taken from the Fifth International Conference on AIDS.

AIDSLINE is updated once a week with MEDLINE citations and once a month with citations from HEALTH, CANCERLIT, CATLINE, and AVLINE. The AIDSLINE update schedule was published in the September-October 1991 issue of the *Technical Bulletin*. Meeting abstracts are added to AIDSLINE as soon after the meeting as current workflows permit. Watch the online NEWS and the *Technical Bulletin* for announcements.

FUTURE PLANS

During 1992, NLM plans to enhance AIDSLINE with AIDS-related citations from BIOETHICSLINE. The meeting abstracts from the 9th Annual Symposium on Nonhuman Primate Models on AIDS and those AIDS-related abstracts from the 1991 Annual Meeting of the American Society for Microbiology will be added to

AIDSLINE in Spring 1992. In addition, the Library hopes to have the meeting abstracts from the 8th International Conference on AIDS, which will be held in Amsterdam in July 1992, available online at the time of the conference or shortly thereafter.

NLM will continue to evaluate other sources of published literature for possible inclusion in AIDSLINE.

The search strategy used for 1992 updates of AIDSLINE is reproduced below.

- SS1 = EXPLODE HTLV VIRUSES OR EXPLODE SIMIAN RETROVIRUSES OR EXPLODE HTLV ANTIBODIES OR EXPLODE HTLV ANTIGENS OR EXPLODE HTLV INFECTIONS OR RECEPTORS, HIV OR AIDS SERODIAGNOSIS OR GENE PRODUCTS, NEF OR GENE PRODUCTS, REV OR GENES, NEF OR GENES, REV OR HIV SEROPREVALENCE
- SS2 = GENE PRODUCTS, RAP OR GENE PRODUCTS, REX OR GENE PRODUCTS, TAX OR GENE PRODUCTS, VIF OR GENE PRODUCTS, VPU OR GENES, PX OR GENES, VIF OR GENES, VPU
- SS3 = SIMIAN ACQUIRED IMMUNODEFICIENCY SYNDROME OR BOVINE IMMUNODEFICIENCY-LIKE SYNDROME OR BOVINE IMMUNODEFICIENCY-LIKE VIRUS OR FELINE ACQUIRED IMMUNODEFICIENCY SYNDROME OR FELINE IMMUNODEFICIENCY VIRUS OR MURINE ACQUIRED IMMUNODEFICIENCY SYNDROME
- SS4 = EXPLODE HIV LONG TERMINAL REPEAT OR HIV PROTEASE OR LYMPHOMA, AIDS-RELATED OR AIDS VACCINES OR HIV CORE PROTEIN P24 OR CD4-CD8 RATIO
- SS5 = (TW) FAIDS OR FTLV OR FELINE AND AIDS OR SRV-1 OR SRV-2 OR SRV-3 OR SRV-4 OR SRV-5 OR SAIDS AND NOT EXP ANTI-INFLAMMATORY AGENTS, STEROIDAL (MH) OR SIMIAN (TW) AND AIDS (TW) OR STLV (TW) OR MAIDS (TW) AND IMMUNOLOGIC DEFICIENCY SYNDROMES (MH)
- SS6 = (TW) HIV OR HTLV AND III OR LYMPHADENOPATHY AND ASSOCIATED AND VIRUS OR AIDS AND RELATED AND COMPLEX OR LAV OR HUMAN AND IMMUNODEFICIENCY AND VIRUS OR HUMAN AND T AND CELL AND LYMPHOTROPIC AND VIRUS AND III OR AIDS AND ALL RETROVIR: OR ARV OR HUMAN AND T AND CELL AND LEUKEMIA AND VIRUS AND III OR HIV AND I OR HIV AND II OR HIV1 OR HIV2 OR HIVI OR HIVII OR HIV-1 OR HIV-2

Figure 1 - 1992 Strategy for AIDSLINE Updates

- SS7 = (TA) AIDS RES HUM RETROVIRUSES OR AIDS OR AIDS RES OR AIDS EDUC PREV OR J ACQUIR IMMUNE DEFIC SYNDR OR AIDS CLIN REV OR AIDS CARE OR INT J STD AIDS OR PROG AIDS PATHOL OR J ASSOC NURSES AIDS CARE
- SS8 = GENE PRODUCTS, TAT OR GENES, TAT OR SARCOMA, KAPOSII'S OR EXPLODE ANTIVIRAL AGENTS OR PNEUMOCYSTIS CARINII OR PNEUMONIA, PNEUMOCYSTIS CARINII OR NF-KAPPA B OR CONTACT TRACING OR TRANSCRIPTION FACTOR, SP1 OR MYCOPLASMA FERMENTANS OR NEEDLESTICK INJURIES OR PNEUMOCYSTIS CARINII INFECTIONS OR CD4 IMMUNOADHESIONS OR UNIVERSAL PRECAUTIONS OR NEEDLE SHARING
- SS9 = (TW) AIDS OR ACQUIRED AND IMMUNODEFICIENCY AND SYNDROME OR ACQUIRED AND IMMUNE AND DEFICIENCY AND SYNDROME OR HTLV OR HIV
- SS10 = 8 AND 9
- SS11 = ANTIGENS, CD4
- SS12 = 11 AND 6 OR 11 AND 9
- SS13 = 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 10 OR 12

Figure 1 - 1992 Strategy for AIDSLINE Updates cont.

AIDSTRIALS and AIDSDRUGS

NLM has participated in the government's response to the AIDS crisis by providing a variety of information products and services. The AIDSTRIALS and AIDSDRUGS databases are part of this effort. NLM has been cooperating with the National Institute of Allergy and Infectious Diseases (NIAID), the Food and Drug Administration (FDA), and the Centers for Disease Control (CDC) to provide access to information on clinical trials of new therapies for people infected with the HIV virus.

There are currently almost 400 records in the AIDSTRIALS database. These trials test selected agents for activity against the HIV virus as well as a wide variety of opportunistic infections. Other types of trials are also included such as nutritional and prevention (vaccine) studies. The information contained in the database includes the purpose of the trial; the agents being studied; eligibility criteria; locations at which the trial is being conducted; contact telephone numbers; and whether the study is still accepting new patients. Information about the treatment regimen is included for some of the trials.

AIDSDRUGS is a companion database to AIDSTRIALS and contains information about the various agents being tested in the clinical trials included in AIDSTRIALS. This information includes: names by which the agents are known such as trade names, generic names, and chemical names; pharmacology; contraindications; adverse reactions; chemical/physical properties; and manufacturer. In addition, a selected bibliography, compiled from AIDSLINE, is included to provide quick access to additional sources of information.

Users may search these AIDSTRIALS in a variety of ways. Information about individual trials may be found by searching on: specific agents, trial location, type of opportunistic infection, or eligibility criteria. Users may easily move between AIDSTRIALS and AIDSDRUGS using the agent name, the drug identifier, or the protocol number. Grateful Med Macintosh Version 1.5 has INPUT form screens which simplify searching these two databases. The AIDSTRIALS and AIDSDRUGS form screens will be available in Grateful Med IBM-Version 6.0 (see the article beginning on page 5 of this issue). A complete description of AIDSTRIALS and AIDSDRUGS may be found on pages 17-27 of the July 1989 *Technical Bulletin* while details about searching by trial category and trial location may be found in the November-December 1990 *Technical Bulletin*, pages 19-23.

BIOETHICSLINE Update

Significant changes in the mode of production of the BIOETHICS file, and in the Keyword vocabulary used for indexing and searching it, took place in 1991. The file was regenerated on November 18, 1991, with many retrospective changes in Keywords. It has been updated since then with new records produced using prototype NLM software that makes use of several text validation tables that help to control the quality of data input.

Descriptions of changes that affect searching appeared in two successive issues of the *Technical Bulletin*, July-August 1991 and September-October 1991. For convenience, these changes are summarized below.

Vocabulary Changes

Forty-five new or changed Keywords were added to the Bioethics Thesaurus and made their appearance online in November 1991. Most of these added Keywords reflect changes in vocabulary or in the subjects of bioethical discussion over the years; others were necessitated by changes in the MeSH vocabulary that affected the effort to map BIOETHICS Keywords to appropriate MeSH terms when possible.

In the list that follows, these Keywords are partially annotated to indicate whether they are new terms that will appear only in records added since 1991 (date in parentheses = 1991), or replacement terms that were added retrospectively to old records as well (date in parentheses prior to 1991). For fuller annotations of these terms and their relationships to other terms, consult the 1991 edition of the Thesaurus. (See "Publications Update" on page 46.)

AIDS (1983; formerly Acquired Immunodeficiency Syndrome)
 AIDS SERODIAGNOSIS (1984)
 ANONYMOUS TESTING (1991)
 ARTIFICIAL FEEDING (1975; formerly Food)
 AUTONOMY (1974; formerly Self Determination)
 BLOOD SPECIMEN COLLECTION (1975; formerly Venepuncture)
 BURNS (1978; formerly Burn Patients)
 CASUISTRY (1991)
 CHORIONIC VILLI SAMPLING (1986; formerly Chorionic Villus Sampling)
 CLINICAL ETHICS COMMITTEES (1974; formerly Ethics Committees)
 CRYOPRESERVATION (1980; formerly Freezing)
 DATA BANKS (1974; formerly Data Bases)
 DNA FINGERPRINTING (1991)
 DUTY TO WARN (1991)
 EPILEPSY (1974; formerly Temporal Lobe Epilepsy)
 ETHICAL THEORY (1974; formerly Normative Ethics)
 EVALUATION STUDIES (1991)
 FETAL TISSUE DONATION (1979; formerly Fetuses with Tissue Donation or Organ Donation)
 FORENSIC MEDICINE (1991)
 FORENSIC PSYCHIATRY (1991)
 FUTILITY (1991)
 GERM CELLS (1974; formerly Gene Pool)
 INTERNAL MEDICINE (1991)

INTERPROFESSIONAL RELATIONS

(1991)

LAWYERS (1991)

OCCUPATIONAL EXPOSURE (1991)

PATIENT ACCESS TO RECORDS

(1991; formerly Patient
Access)

POLICY ANALYSIS (1991)

PREIMPLANTATION DIAGNOSIS

(1991)

PREVALENCE (1991)

PROPRIETARY HOSPITALS (1974;

formerly Private Hospitals)

REFUSAL TO TREAT (1979;

formerly Selection for
Treatment)

REGIONAL ETHICS COMMITTEES

(1991)

RESEARCH ETHICS COMMITTEES

(1974; formerly Ethics Committees)

RESUSCITATION ORDERS (1974;

formerly Resuscitation)

RIGHT TO DIE (1974; formerly

various Allowing to Die
terms with Treatment
Refusal or related terms)

SCIENTIFIC MISCONDUCT (1981;

formerly Fraud or Misconduct
with various research terms)

SEXUALLY TRANSMITTED DISEASES

(1979; formerly Venereal
Diseases)

STERILIZATION (SEXUAL) (1974;

formerly Sterilization)

SURROGATE MOTHERS (1975;

formerly Host Mothers)

TISSUE TRANSPLANTATION

(1976; formerly Organ
Transplantation)

TRUTH DISCLOSURE (1974;

formerly Disclosure)

TWINS (1974; formerly

Twinning)

UNCERTAINTY (1991)

VENTILATORS (1991)

Print Capability Changes

All Keywords continue to be searched with the two-letter qualifier (KW). The method of printing Keywords, however, now varies according to whether they are:

- (1) Descriptor Keywords (KWD) drawn from the controlled subject vocabulary of the Bioethics Thesaurus; several KWD are assigned to every BIOETHICSLINE record,
- (2) Proposed Descriptors (KWP), or subject terms that are under consideration for possible future inclusion in the Thesaurus; KWP are used relatively infrequently in indexing,
- (3) Identifier Keywords (KWI), which are proper nouns such as the names of countries or states, organizations, persons, court decisions, laws, etc.; KWI are used fairly freely in indexing.

Searchers must either specify the specific type, or types, of Keywords to be printed. For example:

PRINT KWD

PRINT KWD, KWP, KWI

or use the standard BIOETHICS print format option:

PRINT KIE

that will automatically print all types of Keywords, together with the basic citation, publication type, and unique identifier assigned to the citation when it is indexed at the Kennedy Institute of Ethics, Georgetown University.

As a practical matter, the most useful print formats are likely to be PRINT COMPRESSED INCLUDE KWD and PRINT COMPRESSED KIE. These formats allow searchers to ascertain patterns of subject indexing, while condensing into compressed paragraphs what may be large numbers of Keywords.

Search Capability Changes

It is recommended that searchers who are not satisfied with their retrieval on a given subject should utilize Text Word searching to retrieve candidate citations, print 10 or 15 titles to look for relevant ones, and then PRT COMPR KWD (or PRT COMPR KIE) to look for patterns of indexing that can be used in a new search strategy to improve retrieval.

Two refinements of the Text Word (TW) search capability that were implemented for BIOETHICSLINE with the recent file regeneration may be particularly useful in the interactive search strategy development approach recommended in the preceding paragraph. These are the Title Field

Text Words (TF) and Keyword Field Text Words (KF) search features, which can be used to limit retrieval of Text Words to the Title or Keywords fields respectively.

There has been a change in the way you need to search in order to retrieve reviews. When REVIEW was a MeSH heading, typing the term review without qualification enabled you to retrieve citations indexed with review. Now REVIEW is a Publication Type (PT) and REVIEW does not exist as a value in the PT field in BIOETHICSLINE. Therefore in order to retrieve review articles in this file, either qualify review as 'review (kw)' which is how review articles are indexed or for the broadest retrieval enter 'all review' as shown below and on the next page in Figure 1.

```
SS 1 /C?
```

```
USER:
```

```
file bioethics
```

```
PROG:
```

```
YOU ARE NOW CONNECTED TO THE BIOETHICS (1973 FORWARD) FILE.
```

```
SS 1 /C?
```

```
USER:
```

```
abortion
```

```
PROG:
```

```
SS (1) PSTG (4363)
```

```
USER:
```

```
1 and review
```

```
PROG:
```

```
NP (REVIEW)
```

```
*NONE-
```

Figure 1 - Retrieving Reviews in BIOETHICSLINE

SS 2 /C?

USER:

nbr review

- Neighboring the term shows that no postings were retrieved because the term does not exist as a MeSH heading.

PROG:

SELECT # POSTINGS TERM

11	1	REVESTED (TF)
12	1	REVESTED (TW)
13	392	REVIEW (TF)
14	388	REVIEW (MHF)
15	1006	REVIEW (TW)

UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:

down

PROG:

SELECT # POSTINGS TERM

16	549	REVIEW (KW)
17	303	REVIEW (KWP)
18	549	REVIEW (KWD)
19	1878	REVIEW (KF)
20	184	REVIEW COMMITTEES (KW)

UP N OR DOWN N OR ENTER A SELECT COMMAND.

SS 2 /C?

USER:

1 and all review

- Entering 'all review' will retrieve this term from every field in which it occurs and gives the most complete retrieval.

PROG:

SS (2) PSTG (181)

SS 3/C?

USER:

prt 3 ti

PROG:

1

TI - Abortion Decisions of the Supreme Court, 1973 through 1989: A Comprehensive Review with Historical Commentary.

2

TI - A Patient's Right to Know: Information Disclosure, the Doctor and the Law.

3

TI - The anatomy of the A-word. [Book review essay].

Figure 1 - Retrieving Reviews in BIOETHICSLINE cont.

Publications Update

New editions of two Kennedy Institute of Ethics publications that are of special interest to BIOETHICSLINE searchers were published in November 1991.

The 1991 Edition of the Bioethics Thesaurus incorporates all of the many new and changed Keyword Descriptors listed above, together with their explanatory scope notes and cross references to broader, narrower, and related terms. The new edition of the Thesaurus also includes an updated and more conveniently arranged list of the "major issue" Keywords that are likely to be of greatest use in searching. The 51-page, significantly revised, 1991 Edition of the Thesaurus is available for \$10 (\$15 outside North America; checks payable to the Kennedy Institute of Ethics; add \$2 if not prepaid) from:

Bioethics Information Retrieval Project
Kennedy Institute of Ethics
Georgetown University
Washington, DC 20057-1065
Phone: 202-687-3885 or 800-MED-ETHX
Fax: 202-687-6770.

Also newly available, from the same source, is Volume 17 (1991) of the Bibliography of Bioethics, the print version of BIOETHICSLINE. Citations in the Bibliography are listed under a set of approximately 70 broad subject headings, but each citation is accompanied by its full complement of more specific BIOETHICSLINE Keywords. This feature makes the annual Bibliography, which also includes a copy of the latest edition of the Bioethics Thesaurus, a useful tool for searchers wishing to scan for indexing patterns germane to their interests. The price of Volume 17, a 669-page hardback publication, is \$45 (\$50 outside North America).

BIOTECHSEEK

The BIOTECHSEEK (BIOSEEK) database became available on October 1, 1991, and was regenerated with 1992 MeSH on December 9, 1991. BIOTECHSEEK is updated monthly, and contains 1822 records as of the 9203 (EM) update. BIOTECHSEEK contains citations and abstracts to biotechnology journal articles NOT covered in MEDLINE. The structure and searching features are identical to those of MEDLINE. Both MEDLINE

and BIOTECHSEEK should be searched for biotechnology topics because there is no overlap in coverage between the two files. Journals for this complementary file are recommended by NLM's Literature Selection Technical Review Committee. There are currently 24 titles indexed for BIOTECHSEEK; these journal titles are in SERLINE with the value B in the Special List Indicator (LI) field. See pages 20-21 of the July-August 1991 NLM *Technical Bulletin* for the search strategy used in SERLINE to obtain a listing of the journal titles indexed for the BIOTECHSEEK file.

CATLINE, AVLINE, NAF - Update Highlights

1. New Publication Type (PT)

The Cataloging Section activated the searchable publication type "PRACTICE GUIDELINE" (Although to date, there are no records with the publication type "PRACTICE GUIDELINE" in the CATLINE or AVLINE databases.) to cover materials consisting of:

A set of statements, directions or principles to assist the health care practitioner with patient care decisions about appropriate diagnostic, therapeutic, or other clinical procedures for specific clinical procedures.

As further defined in MeSH,

Practice guidelines may be developed by government agencies at any level, institutions, organizations such as professional societies or governing boards, or by the convening of expert panels. They can provide a foundation for assessing and evaluating the quality and effectiveness of health care in terms of measuring improved health, reduction of variation in services or procedures performed, and reduction of variation in outcomes of health care delivered.

2. Addition of Preservation Information to CATLINE

The CATLINE file was updated on May 31, 1991 to add notes about NLM's preservation microfilming of print monographs. The Preservation Action Note (PRS) in CATLINE now identifies the brittle monographs in NLM's collection that have been microfilmed for preservation or that are being queued for eventual micropreservation. For further details, see pages 35-36 of the May-June 1991 issue of the *Technical Bulletin*.

3. Changes to Print Catalog Card (Prt CC) Format

In December 1991, two new fields, the Preservation Action Note (PRS) field and the Comments (CM) field were incorporated into the print catalog card format. The PRS Action Note (PRS) field for monographs that have been filmed carries information on the date of filming, number of reels and size and characteristics of the microfilm. An example of the incorporation of these data in the "Print Catalog Card Format" is shown in Figure 1 on the next page.

SS 1 /C?

USER:

prt 1 cc

PROG:

1

Storer, Horatio Robinson, 1830-1922

On criminal abortion in America / by Horatio R.

Storer. — Philadelphia : Lippincott, 1860.

107 p.

From the North American medico-surgical
review, January to November, 1859.

Microfilm. 19901212 Bethesda, Md. : National

Library of Medicine. 1990. 1 microfilm reel:

b&w. negative; 35mm.

I. Title

02NLM: W 600 S884o 1860

0FNLM: FILM 2647

Cit. No. 7600576

Figure 1 - Print Catalog Card (CC) Format in CATLINE

Also added to the print catalog card format, the Comments (CM) field contains citation information identifying sources when the cataloged item has a publication type of "RETRACTED PUBLICATION". The Comments (CM) field will appear as the first note in a CATLINE citation and in the print catalog card format. There are currently no records containing this information in the CATLINE or AVLINE databases.

4. Regeneration of the NAF

Significant changes were made to the Name Authority File (NAF) in 1991. For full details of the changes due to regeneration, see pages 24-28 of the November-December 1991 issue of the *Technical Bulletin*.

In brief, the content of NLM authority records in the NAF was changed to conform more closely to the requirements of the USMARC Format for Authority Data. Record formats for name and series authority data were changed. In addition, certain field data for records in the database created earlier were converted to USMARC-compatible coded values using computer algorithms. Records created after November 1, 1991 are established according to allowable USMARC coded values as appropriate. Any coding problems due to conversion of retrospective records will be addressed as authority records are used again in cataloging.

The most significant of these data element and field value changes relates to the interpretation of NLM series treatment decisions in Series Decision Records.

The former Series Treatment Code (SM) showing NLM's series treatment is replaced by five (5) data elements, Series Type Code (SM), Series Numbering (NU), Series Analysis Practice (AP), Series Tracing Practice (TR), Series Classification Practice (CC), which code each aspect of series treatment separately. These five fields, in combination, illustrate NLM's series treatment.

As illustration, in the sample Series Decision Record resulting from a PRT DL (or PRT FU) command displayed in Figure 2 below, the user would interpret NLM's series treatment decision as "monographic, numbered, analyzed in full, traced, and classified as a collection." NLM's previous series treatment decision is retained as coded information in the General Note (GN) field.

```

SE - Nuclear medicine (New York, N.Y.)
TY - TITLE
SM - MONOGRAPHIC
NU - NUMBERED
AP - ANALYZED IN FULL
TR - TRACED
CC - CLASSIFIED AS A COLLECTION
NO - NACO new
SO - Textbook of radiopharmacy, c1990: CIP
    ser. t.p.(Nuclear medicine )
SNF - New perspectives in nuclear medicine,
    v.2: OCLC record (Monographs in nuclear
    medicine)
CA - W1 NU124K
LC - n86-728706
RO - O:MSF
RO - M:KRC
EL - FULLY ESTABLISHED
DA - 900608
LR - 910404
GN - Converted from NLM SM=3
US - AACR2
UI - 9009127N
  
```

Figure 2 - Record retrieved with PRT DL or PRT FU in the NAF file

The USMARC coded values for these five fields are directly searchable in the NAF. For details on searching the values in these five fields, SM, NU,

AP, TR, CC, see pages 26-27 of the November-December 1991 issue of the *Technical Bulletin*.

CHEMLINE and ChemID Update

When CHEMLINE was regenerated last August, it was completely rebuilt with the latest available data from all sources. The regeneration was also an opportunity to implement in CHEMLINE the more effective presentation of synonyms, using the format introduced in ChemID in 1990. Also introduced to CHEMLINE was the enhancement of the Classification Code (CC) and Note (NO) fields with certain data derived from the MeSH file. These same MeSH data were later added to the CC and NO fields of ChemID, the companion chemical directory file, when it was regenerated in January. A new Locator to the European Inventory of Existing Commercial Chemical Substances (EINECS) has also been added to ChemID.

Changes in the SY Field of CHEMLINE

With the latest regeneration of CHEMLINE, the Name of Substance (NM), Mixtures Name (MX), and MeSH Heading (MH) fields have been introduced. Before the regeneration, all synonyms in CHEMLINE, regardless of type or source, were presented exclusively in the SY field. The new

fields now contain certain synonyms culled from the SY field. The change has been designed to make important and commonly used synonyms more easily recognizable. Other synonyms are still retained in the SY field. This reformatting follows the introduction of these data fields in ChemID when it was first released in 1990 and brings the data element structure in CHEMLINE closer into conformity with that of ChemID. Thus, the user can now go directly to the NM field for a primary name or generic name, to the MH field for a MeSH Heading, or to the MX field for a mixture name without weeding through a crowded SY field. However, this change does not affect in any way the usual search strategy in CHEMLINE; that is, enter the name (without a mnemonic qualifier) as you know it. The appropriate record, if one is available, will be retrieved regardless of the data field in which the name appears.

A comparison of the data elements from CHEMLINE and ChemID, shown in the Summary of Data Elements Chart on the next page illustrates the consistency of most of the data elements in the two files. The data fields appearing in the shaded areas are still unique to one or the other file and will probably remain so because of inherent differences in the resources dedicated to the maintenance of the respective files.

SUMMARY OF DATA ELEMENTS

DATA ELEMENTS	MNEM	CHEMLINE	ChemID
CAS Registry Number	RN	Y	Y
Other Registry Number(s)	ON	Y	Y
Related Registry Number(s)	RR	Y	-
Identification Number	ID	-	Y
Molecular Formula	MF	Y	Y
Molecular Formula Fragments	FF	Y	Y
Systematic Name(s)	N1	Y	Y
Name of Substance	NM	Y	Y
Synonyms	SY	Y	Y
Mixture Name(s)	MX	Y	Y
MeSH Heading	MH	Y	Y
Name Fragments	NF	Y	Y
Classification Code(s)	CC	Y	Y
Note	NO	Y	Y
Ring Data . . .		Y	-
List Locator	LLO	-	Y
Locator	LO	Y	Y
Entry Month	EM	Y	Y

Enhancements to the CC and NO Fields in CHEMLINE and ChemID

Two types of data from the MeSH file have been added to both CHEMLINE and ChemID. The data contained in the Pharmacological Action (PA) field

of certain supplementary chemical records in the MeSH file have been added to the CC field of the corresponding chemical records. The following is an example of these new data (in **bold**), shown together with the data derived from other sources, in the CC field of the drug, modecainide:

CC - ANTI-ARRHYTHMIA AGENTS [MESH]
 CC - Cardiac depressant [anti-arrhythmic] [USPDDN]
 CC - Drug / Therapeutic Agent [RTECS]

The CC field is searchable in two ways. All information not enclosed in square brackets is indexed and therefore searchable as given, e.g.,

“reproductive effect (cc)”. In addition, all words, both inside and outside square brackets are searchable individually as shown in Figure 1 below.

SS 1 /C?

USER:

file chemid

PROG:

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

SS 1 /C?

USER:

cardiac and depressant and uspddn

PROG:

SS (1) PSTG (45)

SS 2 /C?

USER:

prt 1 rn, nm, cc

PROG:

1

RN - 90733-42-9

NM - Edifolone Acetate [USAN] [USPDDN]

NM - SC 35135 [MESH]

CC - ANTI-ARRHYTHMIA AGENTS [MESH]

CC - **Cardiac depressant** [anti-arrhythmic] [USPDDN]

Figure 1 - Searching on Terms in the CC Field in ChemID

The data from the MeSH Scope Note (MS) fields of chemical MeSH Heading records have been added to the NO fields of the corresponding chemical records in CHEMLINE and ChemID. These data provide information about the scope of use or general chemical characteristics of the compound. An example of an NO field taken from the cyanamide record is shown below to illustrate the type of information these new data provide:

NO - A cyanide compound which has been used as a fertilizer, defoliant and in many manufacturing processes. Often occurs as the calcium salt. The citrated calcium salt is used in the treatment of alcoholism. [MESH]

The NO field is present in a small number of records (approximately 3,600) in both files and can be searched by text words using (NO) as the qualifying mnemonic.

European Inventory of Existing Commercial Chemical Substances (EINECS) in ChemID

EINECS is the European counterpart of TSCAINV (Toxic Chemical Substances Control Act Chemical Substance Inventory). ChemID has been regenerated to provide locators to EINECS for the first time. Locators to EINECS have been available in CHEMLINE since 1990. In both ChemID and CHEMLINE, the presence or absence of EINECS in the LO field of a particular chemical record

indicates whether or not the substance is included in EINECS. A quick search of the LO field using the simple search strategy shown below indicates that over 100,000 chemicals are contained in EINECS:

```
SS 1 /C?  
USER:  
(lo) einecs  
PROG:  
SS (1) PSTG (100004)
```

The reformatting of the SY field in CHEMLINE last year was the major step in bringing about the desired consistency between the two chemical directory files. The user can now locate the generic name or primary name much more readily and in much the same way in the two files. MeSH Headings and mixture names are likewise readily recognizable. Locators to EINECS and TSCAINV, which complement one another, will be useful to those interested in regulatory information about chemicals.

Despite the convergence toward uniformity, the two chemical directory files remain distinct from each other in certain important aspects. For example, the SUPERLIST feature remains unique to ChemID. Similarly, CHEMLINE is still the better source for consistent systematic names and molecular formulae. CHEMLINE also contains far more records, over 1 million compared to approximately 200,000 for CHEMID. However, the online charges for ChemID, which are the same as for MEDLINE, may well represent its greatest advantage to some users.

DIRLINE Update

DIRLINE (Directory of Information Resources Online) is NLM's online database containing location and descriptive information about organizations which are considered to be information centers, as well as research resources, databases, electronic bulletin boards, and software programs concerned with health and biomedicine. These information resources fall into many categories including: federal, state and local government agencies; information and referral centers; professional societies; self-help, support groups, and voluntary associations; academic and research institutions and their programs; information systems and research facilities.

DIRLINE contains over 15,000 records merged from various independent resources. The largest

component, the National Referral Center (NRC) database, was produced for over 20 years by the Library of Congress (LC). Since LC has ceased maintaining the NRC database, NLM will be assuming responsibility for the biomedical and health-related records. This new subfile will be updated and maintained by NLM and the mnemonic in the Secondary Source Id (SI) field will be changed to NLM. For a more complete description of the subfiles in DIRLINE see the article on pages 55-56 of the January-February 1991 *Technical Bulletin*.

A DIRLINE Self-Instructional Guide is available to assist searchers in retrieving information from DIRLINE. It is available from:

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

HEALTH PLANNING & ADMINISTRATION Update

At the close of 1991, the HEALTH PLANNING & ADMINISTRATION database (HEALTH), produced cooperatively by the National Library of Medicine and the American Hospital Association (AHA) Resource Center, contained 577,996 citations to worldwide literature concerned with all aspects of health care delivery. The file is updated monthly, one week following the final MEDLINE weekly update.

Vocabulary

A considerable number of the new 1992 medical subject headings are particularly relevant in searching HEALTH. MeSH gave special emphasis this year to expanding the vocabulary of health services research. Consider the following main headings:

ADOLESCENT HEALTH SERVICES
ADVERSE DRUG REACTION REPORTING SYSTEMS
BIRTHING CENTERS
CARDIOLOGY SERVICE, HOSPITAL CAREGIVERS
CHIEF EXECUTIVE OFFICERS, HOSPITAL
COMPETITIVE MEDICAL PLANS
COST SAVINGS
COST SHARING
DRUG COSTS
DUTY TO WARN
EMPLOYER HEALTH COSTS
ENTREPRENEURSHIP
EPISODE OF CARE
ETHICS COMMITTEES
HEALTH CARE COSTS
HOSPICE CARE
HOSPITAL MORTALITY
HOSPITALS, RELIGIOUS
HOUSING FOR THE ELDERLY
INFECTION CONTROL
INSURANCE, MEDIGAP

INTENSIVE CARE
 LABORATORY PERSONNEL
 MEDICALLY UNINSURED
 MENTAL COMPETENCY
 MODELS, ECONOMETRIC
 NATIONAL PRACTITIONER DATA BANK
 ONCOLOGY SERVICE, HOSPITAL
 OUTCOME ASSESSMENT (HEALTH CARE)
 PATIENT SATISFACTION
 PREPAID HEALTH PLANS
 PROCESS ASSESSMENT (HEALTH CARE)
 PROFESSIONAL AUTONOMY
 PROGRAM DEVELOPMENT
 REMINDER SYSTEMS
 SMALL-AREA ANALYSIS
 TREATMENT OUTCOME
 UNITED STATES INDIAN HEALTH SERVICE
 UNIVERSAL PRECAUTIONS
 WORKLOAD

In addition, MeSH has changed HEALTH PERSONNEL (NON MESH) to a print main heading, listed in the MeSH Tree Structures at N2.360 and M1.526.485, and followed at both numbers by an indented listing of all of the specific health personnel main headings. HEALTH MANPOWER is retained, but defined as the availability of health personnel and placed in the MeSH Tree Structures at the same level as HEALTH PERSONNEL.

HEALTH MANPOWER N2.350

The availability of HEALTH PERSONNEL. It includes the demand and recruitment of both professional and allied health personnel, their present and future supply and distribution, and their assignment and utilization.

Coverage

Each issue of the *Technical Bulletin* contains a "Serials Update" section that lists title additions, changes, and deletions for indexed journals. Journal titles indexed only for HEALTH (Special List

Health) are preceded by "HLI". These journals are also listed in NLM's annual publication, List of Serials Indexed for Online Users, marked with the letter "H" to the right of the NLM call number on the last line of the entry. Since December 1991, there have been the following changes in Special List Health: 15 new titles, 5 title changes, and 14 titles that either were deselected or ceased publication. All of these changes are reflected in the SERLINE database for Special List Indicator (LI) titles with the value "H": H (LI).

Publications Update

The Hospital Literature Index, produced from HEALTH and published quarterly by the American Hospital Association, completed its 47th consecutive year of publication in 1991. In addition to Subject, Name, and Journal Sections derived from HEALTH, each issue lists the books, audiovisuals, theses, and new journal titles acquired by the AHA Resource Center, grouped by medical subject headings. The cumulative issue for 1991, Volume 47, contains 14,437 citations to journal literature. A 1992 subscription to Hospital Literature Index (AHA catalog number M0940) is available for \$205 to AHA members and \$260 to non-members. Orders for the new volume (Volume 48, 1992) should be sent to:

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

The 1990 brochure on HEALTH is still available from AHA. An 8-page booklet, it is available in lots of 50 to AHA members for \$10 and to non-members for \$15 (AHA catalog number C-121051).

The AHA Resource Center continues to offer bibliographies on relevant health administration topics. They are announced in the National Library of Medicine News, and are available free of charge from the Resource Center. To request copies, call

312/280-6263, or send a self-addressed, stamped envelope with your request to the AHA Resource Center, 840 North Lake Shore Drive, Chicago, IL 60611. Those produced in 1991 include:

United States hospital histories (January)
 Hospital ethics committees (February)
 Environmental issues in hospitals (March)
 Patient self-determination and advance directives (April)
 Trends in U.S. health care (May)
 Health care reform in the U.S. (July)
 Total quality management (July)
 Health statistics sources (August)
 Managed care (October)
 Hospital-medical staff relationships (December)
 Hospital tax-exempt status (December)

NLM has published several bibliographies in its Current Bibliographies in Medicine series that are relevant to health care delivery. These CBM titles are available on an individual basis, \$3 (\$3.75 foreign) from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402-9322. GPO phone orders: 202/783-3238.

91-4 Medical waste disposal. Jan 86 - Jan 91.
 629 citations.
 [S/N 817-007-00004-0]

90-17 Hospital technology assessment. Jan 84 -
 Dec 90. 784 citations.
 [S/N 817-006-00017-5]

90-15 Patient education for self-care: the role of
 nurses. Jan 83 - Nov 90. 468 citations.
 [S/N 817-006-00015-0]

90-12 Prison health care. Jan 86 - Sep 90. 1132
 citations.
 [S/N 817-006-00012-4]

The *Technical Bulletin* published an article on pages 14-21 of the March-April 1991 issue on searching for disallowed subheadings in MEDLINE and HEALTH.

Publication Type (PT) in HEALTH

A new Publication Type, PRACTICE GUIDELINE (PT), has been added for 1992. This will be used by indexers to identify clinical practice guidelines published by government agencies, institutions, or other organizations relating to practice paradigms for effective health care. Whenever PRACTICE GUIDELINE (PT) is assigned, GUIDELINE (PT) will also be added to the citation by the computer input system.

Some values for Publication Type (PT) were added to HEALTH retrospectively—that is, to records older than 1991 Entry Months when the data element was first used. Most of the PTs involved have corresponding rubrics, used within brackets at the ends of titles to identify the type or format of the article, e.g., [letter], [editorial], or [news]. The PT values were added as far back as the use of the rubric allowed. See pages 12-14 of the September-October 1991 issue of the *Technical Bulletin*, for a more detailed explanation.

PDQ and CANCERLIT Update

Enhancements to PDQ

Most of the changes that have been made to the NLM PDQ system within the last year have been associated with internal processing and thus invisible to the end user. Many of the menus you now see are driven by the data content and are able to change each month without programmer intervention. This allows for the menus to be current as soon as new protocol and cancer treatment information is added to the database, without having to wait a month or more for menus to be manually updated.

Changes within the last year include:

(1) A new status for Clinical Trials, "Approved - Not yet active". These clinical trials have been approved by the regulatory bodies responsible for the protocol, but no patients have been entered to date.

(2) A new classification of protocol phase was added to clinical trials: "Treatment Referral Center Protocol". A treatment referral center protocol is designed to make an investigational agent available from the Cancer Therapy Evaluation Program (CTEP) through NCI-designated cancer centers, to patients who are not eligible for existing clinical trials. There is currently only one treatment referral center protocol - taxol for refractory ovarian cancer.

Future enhancements

During early 1992, information on the early detection and prevention of cancer will be added to PDQ. The first information to be added will be the NCI Cancer Screening and Early Detection Guidelines developed for cancers of the breast, colon and rectum, skin, oropharynx, prostate, cervix, and testis. Additional information will be developed for cancers of the ovary, lung, liver, stomach, and bladder.

A separate subcommittee of the PDQ Editorial Board, the Early Detection/Prevention PDQ

Editorial Board, has been constituted to create and update this information in PDQ. For some time, there has been a separate Pediatric PDQ Editorial Board to review the information on pediatric cancers in the database. These three separate Editorial Boards will be represented in PDQ on the menu for the PDQ Editorial Board. A fourth Editorial Board to write and review information in the supportive care file of the database will be added sometime next year. A fifth Editorial Board to develop drug information for PDQ is expected to be formed during 1992.

In the Protocol File, Option 10, Exclusion criteria, and Option 11, Disease Specific criteria, for Clinical Trials will be activated as soon as this summer. An example of an exclusion criterion is the following: Find all protocols for breast cancer involving the use of the drug MTX, in patients who have had no prior chemotherapy. "Prior chemotherapy" is the exclusion criterion, while "MTX" and "breast cancer" are inclusion criteria. This would be the equivalent of the hypothetical ELHILL command: BREAST NEOPLASMS and METHOTREXATE and not prior chemotherapy" ("prior chemotherapy" is not a MeSH heading). An example of a "Disease Specific Criteria" for breast cancer includes stage, menopausal status, hormone receptor status and lymph node status. This will permit very narrow and specific retrieval at some cost in comprehensiveness, if that is desired.

User Guide Revised

The PDQ User Guide, the primary resource for searching PDQ on MEDLARS, is being revised and updated, and will be available in early 1992 from the National Technical Information Service. Its order number is PB92-500933. From the U.S., Canada, and Mexico, the cost is \$34.95 plus \$3.00 for handling (add \$7.50 if using a purchase order). From all other addresses the cost is \$69.90 plus \$4.00 for handling. To order from NTIS, call (703) 487-4650 or FAX (703) 321-8547 (for credit card or NTIS deposit account orders only). An NTIS order

form is in Appendix L for use with a check or purchase order. Those persons who already have a guide will be notified and can receive updates free-of-charge. A complimentary PDQ Quick Reference Guide is also still available from the NCI by writing to PDQ Quick, Building 82, Room 200, Bethesda, MD 20892, FAX (301) 480-8105.

CANCERLIT

CANCERLIT, containing approximately 850,000 citations and abstracts of published literature

covering all aspects of cancer from 1976 forward, added about 75,000 new records in 1991. When appropriate, most recent changes to MEDLINE have resulted in similar changes to CANCERLIT (e.g., Gene symbol (GS) can be searched with fragments of gene symbols; a new PT - PRACTICE GUIDELINE; a new subheading - Pathology - added to the subheading pre-explosion named DIAGNOSIS&; and the incorporation of 9 levels of MeSH).

POPLINE Update

Database Update

The POPLINE (POPulation information onLINE) database contained 186,492 citations at the close of 1991. The Population Information Program at The Johns Hopkins University maintains the database with the assistance of Population Index at Princeton University. POPLINE is updated monthly and is fully rebuilt once a year.

Changes to the Scope of the Database

A new selection criteria has been developed for POPLINE. All formats in printed media in all languages will be acquired for the database including: journal articles, monographs, monograph chapters, conference papers, wall charts, technical reports, procedure manuals, press releases, contractor submissions, working papers, bills, laws, court decisions, patents, training manuals, theses, and conference proceedings, as well as selected annual reports, pamphlets, and newspaper articles.

POPLINE provides citations and abstracts of the worldwide literature on population and family planning including:

- Family Planning Technology - medical and behavioral methods used in the regulation of fertility.
- Family Planning Programs - organization, administration, delivery, and evaluation of family planning services to women and men of reproductive age including clinical, community-based distribution, social marketing, and other non-clinical or commercial programs.
- Fertility - demographic measurement of births in a population; includes the effect of socioeconomic variables on reproductive performance status and change.

- Population Law and Policy - stated positions or actions taken by governments and other public bodies toward reproduction, contraceptive products, migration, and family size.
- Demography - population dynamics including determinants of infant and maternal mortality, and trends in migration.
- AIDS and Other Sexually Transmitted Diseases - any disease which is transmitted primarily or exclusively through intimate sexual contact including AIDS. Coverage is limited to developing countries.
- Maternal and Child Health - programs to promote breast-feeding, oral rehydration therapy, immunization, safe motherhood, and other practices designed to ensure child survival. Coverage is limited to developing countries.
- Primary Health Communication - organized campaigns designed to instruct, disseminate information or influence knowledge, attitudes, and behavior of a population with regard to family planning, AIDS, and maternal-child health. Coverage is selective and limited to developing countries.
- Population and Environment - effects of overpopulation on ecology and natural resources. Coverage is selective and limited to developing countries.

Anyone interested in more detailed information regarding the scope of the database can receive a copy of the selection criteria by writing to:

Population Information Program
The Johns Hopkins University
527 St. Paul Street
Baltimore, MD 21202

New Keyword Guide

POPLINE's keywords have had major revisions. The changes include 56 keywords added, 160 keywords deleted, 12 subheadings deleted and numerous broader/narrower relationships adjusted. These changes are reflected in the database and in the new greatly enhanced, easy to use, revised POPLINE vocabulary listing called A User's Guide to POPLINE Keywords. Stored searches should be updated to ensure thorough and accurate retrieval.

Using POPLINE keywords has always been the most efficient way to search the database, so access

to the new User's Guide is a must. The User's Guide costs \$35.00 and a binder is available for an additional \$7.00. A copy can be ordered by sending your name and address along with payment to the address below:

A User's Guide to POPLINE Keywords
Population Information Program
The Johns Hopkins University
527 St. Paul Street
Baltimore, MD 21202

SERLINE Update

Locator Codes

In July 1991 several changes took place to the configuration of the National Network of Libraries of Medicine. The libraries in New England (CT, MA, ME, NH, RI, VT), which were formerly in Region 01, formed a new region, 08. The Lyman Maynard Stowe Library of the University of Connecticut Health Center in Farmington, CT became the Regional Medical Library for Region 08. Puerto Rico, which was formerly part of Region

01, became part of Region 02. The Houston Academy of Medicine-Texas Medical Center Library, became the Regional Medical Library for Region 05.

In SERLINE, the numeric parts of the locator codes were changed as necessary with the July 1991 update to reflect the reconfiguration of the National Network of Libraries of Medicine described above. The revised list of locator codes appears in Appendix M. No libraries have been added or deleted from the previous list.

Revised Online Codes Map

A revised Map of Online Codes in the United States is included in Appendix O.

TOXLINE Update

The rebuilding of TOXLINE and TOXLINE65, expected in March 1992, will include relatively few subfile replacements and search changes as compared to last year. As usual, the Toxicity Bibliography (TOXBIB) subfile from MEDLINE will be replaced in order to provide records indexed with 1992 MeSH. The portion of the BIOSIS subfile which contains MeSH indexing (applied to the records via mapping from the BIOSIS Biosystematic Codes and Concept Codes) will also be updated. Including BIOSIS records added to TOXLINE from August 1985 forward, this portion of the subfile is identified with "BIOSIS" in the Secondary Source Identification (SI) field, as opposed to "HEEP" which appears in older records from this subfile.

TSCATS Subfile

The Toxic Substances Control Act Test Submission (TSCATS) subfile that will be available with the regenerated TOXLINE will include substantially more records with abstracts. These abstracts are prepared from health and safety studies on selected chemicals submitted to the Environmental Protection Agency (EPA). Often the studies reported in TSCATS submissions are not found in the open scientific literature.

CRISP Subfile

As usual, after regeneration, the Computer Retrieval of Information on Scientific Projects (CRISP) subfile will provide the newest available year of Public Health Service-supported toxicology research projects. FY91 projects will be added for the first time, and records for FY90 projects will be replaced with an updated version. In keeping with our policy of maintaining three years of research project reports in the file, FY89 projects will remain in TOXLINE

for their final year. Other toxicology research project information is provided in TOXLINE in the Federal Research in Progress (FEDRIP) subfile, which was just reloaded into TOXLINE in October 1991. This subfile will not be replaced during this year's regeneration.

Two New Subfiles

Finally, two new subfiles will be added to TOXLINE shortly after the regeneration. The addition of the first file, Developmental and Reproductive Toxicology (DART), has been expected for some time; it will provide a continuation of the Environmental Teratology Information Center (ETIC) subfile. The DART subfile will include MeSH indexing, and the CAS Registry Number (RN) field will be structured as in the TOXBIB subfile, with the chemical name displayed in parentheses after the CAS Registry Number. Because the creation of the DART subfile involves using MEDLINE-derived records, the TOXBIB profile has been altered to eliminate these records in order to reduce some of the duplication of records which occurs in TOXLINE. When this new subfile is first added to TOXLINE, users of the NLM SDI service and users who perform their own routine update searches might notice larger than usual search results.

The second new subfile coming soon to TOXLINE includes toxicology-related projects collected by the National Toxicology Program (NTP) for their annual survey, the NTP Review of Current Dept. of Health and Human Services, Dept. of Energy, and EPA Research Related to Toxicology, Fiscal Year 1990. This subfile will focus on toxicology methods development and toxicology testing of specific chemicals. As a compilation, it will provide information supportive of risk assessment activities. A full article explaining this new subfile will be provided in a future issue of the *Technical Bulletin*.

TOXNET Update

System Conversion to MUMPS

In May of 1991, TOXNET underwent a major system conversion from MIIS (Meditech Interpretative Information System) to MUMPS (Massachusetts General Hospital Utility Multi-Programming System). Concurrently, TOXNET's hardware shifted from a group of mini-computers to a microcomputer networked environment. The current TOXNET system configuration utilizes sixteen 33 MHz 386 microprocessors with over 23 gigabytes of online disk storage. This change in software and hardware was undertaken in a manner transparent to TOXNET users and has resulted in considerable system flexibility, cost-savings, and efficiency in searching. Users benefit by enhanced search capabilities and more cost effective searching.

TOXNET is now online 24 hours a day, seven days a week. Due to "backup" microprocessors, no scheduled maintenance down-time is necessary. A dedicated "system monitor" can immediately identify any malfunction in a microprocessor or disk drive, in which case users are automatically routed to other processors. A "load balancing" feature permits a better distribution of usage across the network and therefore ensures faster response time for users.

The new microprocessor network also provides Uninterruptible Power Supplies (UPS) for the detection of power outages that, for example, may occur during thunderstorms. In these cases the UPS switches to backup battery power within a few milliseconds and there is no break in service.

Tests have shown that TOXNET's current configuration has over 16 times the processing power of the minicomputer network at a substantial reduction in cost. Upgrades are also much simpler. Should TOXNET require additional computing power, microprocessors can easily be added or 486-level machines can be substituted.

Database News

On the database front, TRI89 (1989 Toxic Chemical Release Inventory) joined TOXNET's TRI series of files. TRI contains data collected by the Environmental Protection Agency (EPA) from industrial facilities around the country on releases of toxic chemicals to the environment and their transfers to waste sites. The TRI series now consists of TRI87, TRI88, and TRI89. These files are searchable singly or in a crossfile environment. TRI90 will join TOXNET in the Spring of 1992.

TRIFACTS, a companion file for the TRI series, will come online in the Spring of 1992. It will contain summary health and ecological effects data written in non-technical fashion for the TRI chemicals. For TRI users who find the scientific language of files such as HSDB and IRIS difficult to understand, TRIFACTS will offer an alternative.

Menu Searching

The enhancement of menu searching was an important TRI development. The flow of the menus now allows users to access the appropriate search screens directly, instead of being required to review each screen in sequence. Also, crossfile searching, sorting, and statistical operations have been integrated into the TRI menus, thus providing menu searchers with some of the powerful operations available to direct searchers. TRI menu searching usage has doubled since the introduction of these improvements.

The year 1991 also saw the addition of concept menus for the HSDB file. These menus guide novice users through HSDB searches in a stepwise fashion. Users begin by selecting a main concept and then entering a chemical name. The search may be further refined by selecting modifying concepts from the lists provided. HSDB concept menus also give more experienced users a short-hand way to formulate complex searches, because the system takes over the job of identifying and combining

many search terms to define a given concept. See the article beginning on page 1 of the November-December 1991 *Technical Bulletin* for more information on the HSDB menus. Concept menus are being planned for other TOXNET files as well. Also, the next version of GRATEFUL MED 6.0, scheduled for June 1992 delivery, will, for the first time, offer a search interface to several TOXNET Files (TRI, HSDB, RTECS, CCRIS).

Sorting in TOXNET

The SORT feature was expanded from TRI to all the TOXNET files, for select data elements. One may sort, for example, a retrieval set of a bibliographic file such as DART by author, or that of a file such as IRIS by chemical name. See the article in this issue on pages 28 - 34 for more information.

Publications Update

Both the TOXNET Reference Guide and the TOXNET Brief Guide have been revised and the revised TRI Reference Guide is in its final stages of preparation. These publications are available at no charge. Please send a self-addressed mailing label with your request to:

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

TOXNET Billing Notice

A minor problem was experienced with regard to billing during the first few days of January for the TOXNET system. Unknown until recently some billable hours were not properly accounted for in our billing programs. We have now identified these billable hours and users affected will see that their February invoices reflect any such billable usage with the date of February 1, 1992. More simply stated, users who were not accessing TOXNET databases on February 1 may see some usage on their February bills that represents January usage not billed earlier.

NLM Training Program

The 1992 NLM Training Program schedule for the "Fundamentals of MEDLARS Searching" and the eight Specialized Modules covering many of the other databases was announced and printed in the July-August 1991 *Technical Bulletin*. A few changes to the 1992 training schedule were announced in the November-December 1991 *Technical Bulletin*. Appendix C contains a revised 1992 NLM Training Schedule incorporating the earlier changes. Appendix C also contains the registration form for training classes - "Request for NLM Online Training".

The three Regional Online Training Centers also offer a 4-hour workshop called "MEDLARS: Refresher & Review". The workshop:

- includes a brief review of NLM system capabilities;

- covers recent enhancements to the system;
- includes a demonstration of TFILE, SPRINT, Multi-File Searching, and online sorting;
- is approved for 3.75 MLA Contact Hours;
- is intended for the experienced searcher who would like a system "refresher" or "update".

A cost-recovery fee is charged which varies depending on the training center. Hands-on sessions are not included. The schedule in Figure 1 lists the MEDLARS R&R workshops planned for the near future. Additional workshops will be publicized in the *Technical Bulletin* and your regional newsletters.

Call your Regional Online Training Center if you would like to schedule a MEDLARS R&R workshop in your area.

Eastern Online Training Center:

April 1, 1992	Boston, MA
April 27, 1992	Baltimore, MD

Call the Eastern Online Training Center in New York, NY at 1-800-338-7657 or 212-876-8763 for further information or to register for one of the above workshops.

Midlands Online Training Center:

April 1, 1992	Indianapolis, IN
July 22, 1992	Albuquerque, NM

Call the Midlands Online Training Center in Omaha, NE at 1-800-338-7657 or 402-559-4326 for further information or to register for one of the above workshops.

Western Online Training Center:

April 29, 1992	Bozeman, MT
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Call the Western Online Training Center in Los Angeles, CA at 1-800-338-7657 or 310-825-1200 for further information or to register for one of the above workshops.

Figure 1 - MEDLARS R&R Workshops

NLM-ACP Flat Rate Experimental Agreement

Background

On January 17, 1992 NLM and the American College of Physicians (ACP) announced a one-year experimental flat rate pricing agreement that will allow ACP members unlimited MEDLARS search time for \$200.

The Facts

NLM realizes that many online searchers would be interested in a pricing arrangement that would provide a fixed-fee for online database use. Others are satisfied with pricing that is based on pay-as-you use. Over the last three years NLM has engaged in experimental projects with seven medical schools and hospital libraries to obtain data to be used in establishing an equitable flat rate for online use. NLM recently entered into such an agreement with ACP for a one-year experiment. This is expected to provide NLM with a larger population base than was obtainable with previous experiments so that more extensive data may be collected.

It is also an opportunity to reach physicians who do not already have access to MEDLARS databases. Each ACP member who elects to participate will receive a copy of Grateful Med and have unlimited use of the MEDLARS databases for his or her own personal, non-commercial use for one year for a flat fee of \$200.00.

As with any health professional searcher who wants details on Grateful Med searching, ACP users are urged to contact their local medical library for assistance with any questions they may have, training on the basics of Grateful Med, or document delivery. If this support is not available locally, they are asked to call their Regional Medical Library; assistance is also available from the MEDLARS Service Desk and the Grateful Med BBS. NLM expects that one benefit from this agreement will be the physicians' better appreciation of the role and skills of medical librarians.

Cost Recovery

It's important to note that NLM must recover the access costs for both its online service and its provision of databases to others who vend online services and CD-ROM products. While funds for the essential library services associated with building and maintaining the NLM databases are provided to the Library through its appropriations, Congress determined that the costs of NLM providing access to the files (telecommunications, user assistance, etc.) must be recovered by charging the users. The Library expects to recover its costs on the usage generated by ACP members under the experimental agreement. Should monies over and above the access costs be collected they are returned, as always, to the U.S. Treasury.

If You Want To Assist - How We Can Help

The MEDLARS Management Section would be pleased to supply special ACP online applications to librarians who are interested in promoting MEDLARS access by ACP members. Please feel free to write us about your needs or concerns or call us toll-free at 1-800-638-8480 if we can help. A Grateful Med Train The Trainers course will be held at the annual MLA meeting in Washington again this year and the RMLs also provide such training. Paper copies of "masters" of Grateful Med training workbooks (which may be supplemented as needed with examples, other information, etc.), demo disks, pocket cards, etc. may also be requested from MMS. Remember that the Service Desk is now open until 8 pm Eastern Time each weekday evening and from 8:30 am - 5 pm on Saturdays to increase your opportunity for assistance.

Special Code Programs

In addition to regular MEDLARS User ID codes for online searching, NLM makes several special code programs available. They are described briefly below.

Temporary Non-billed Codes

1. Demonstration Codes

To assist online searchers in publicizing MEDLARS search services, a limited number of non-billed User

ID codes/passwords are made available for use when demonstrating the MEDLARS databases. A code may be requested for short demonstrations (in-house staff and student orientations, etc.) by calling the MMS Service Desk, 1-800-638-8480, during business hours.

Searchers requesting a demonstration code will be asked to provide the following information about themselves and the upcoming demonstration: their regular MEDLARS User ID code; the purpose of the demonstration; the composition of the audience (e.g., physicians, nurses, medical students); and the anticipated size of the audience. Demonstration codes are not intended to be used for training of in-house staff or other training-related activities. (See the second item for information about training codes.) However, these demonstration codes are also made available for limited practice on new ELHILL command features.

2. Training Codes

Non-billed online training codes are available to instructors teaching a course on searching MEDLARS databases. Non-billed codes are also available for their students. These codes are limited to 6 hours over a time period not to exceed three weeks. To request a non-billed training code fill out a "Request for Online Training Code" form, included in Appendix D, and mail it to the MEDLARS Management Section, National Library of Medicine, 8600 Rockville Pike, Bethesda, Maryland 20894. Please allow sufficient time for processing your request.

3. Grateful Med Training Codes

Trainers may obtain non-billed codes for use when teaching online searching using Grateful Med. These codes should be requested using the form in Appendix D, "Request for Online Training Codes." This form may be mailed or faxed to the MEDLARS Management Section. A code may be used by the trainer for a few hours to prepare for the actual training. Codes may be provided to the students for practice during or after the class. Trainers should complete the "Profile of Participants" form, Appendix E, at the conclusion of their class. One form should be completed for each participant.

4. Basics of Searching MEDLINE Training Codes

Non-billed training codes are also available upon request for trainers and participants in the course *The Basics of Searching MEDLINE*. The course provides an introduction to the basic command-language searching of MEDLINE. The form in Appendix D "Request for Online Training Codes" may be used to obtain these codes. Trainers teaching the *Basics* should continue to complete "Profile of Participants" forms (Appendix E) at the conclusion of their training class. One form should be completed for each participant.

The training manual The Basics of Searching MEDLINE may be purchased and used as a self-instructional workbook to learn to search MEDLINE. Individuals using this workbook may also request a non-billed code using the form in Appendix D. The workbook must be purchased from the National Technical Information Center (Order No. PB89-146179/GBB; price \$20.50 + \$3.00 handling per order).

Student Code Program

This program is designed to encourage the use of MEDLARS databases by students. Individual students or educational institutions may apply. The major benefit of the student codes is reduced rates for MEDLARS computer system usage (about half the cost of regular charges).

Student codes are available to individual students from undergraduate level through residency and fellowship programs, regardless of the discipline of study (medicine, information/library science, chemistry, etc.). Individuals requesting a student code are billed at the reduced rates for a non-renewable period of two years. After the two-year period, an individual student code is automatically converted to a regular billed code.

Educational institutions may obtain student codes for various courses from the high-school level through online search training at any advanced level. Institutional student codes may be "capped" or limited to a specified number of connect hours for six-month intervals. Instructors may also obtain a student code to help them prepare to teach online searching courses. The student application form is part of the Online Services Application form included in Appendix H.

Master Accounts for MEDLARS Billing

Multiple User ID codes may be “mapped” (i.e., billed) to one Master account. The codes may either be existing codes or new codes. This new feature allows greater flexibility in MEDLARS accounts. Three examples on when Master accounts might be useful are as follows:

1. **SITUATION:**

Your office regularly searches for different clients and SHOW COST logs are used to charge back the MEDLARS online costs to the proper company.

SOLUTION:

Apply for a separate code for each client and have all codes map to a Master code (account) for billing.

2. **SITUATION:**

There are several searchers in your company and you (or your billing department) receive multiple invoices each month.

SOLUTION:

Instruct NLM to map all the codes to a Master account to receive one invoice. Choose the User ID Code you want as the Master.

3. **SITUATION:**

There are several searchers in your institution

searching on a single code and it is impossible to track the search costs for each individual.

SOLUTION:

Apply for a separate code for each searcher and have them mapped so there is still only one invoice to pay each month.

A Master account will generate one summary invoice (or statement of account if you have an NTIS deposit account) for any month during which any one of the “sub account” codes has usage. However, all transaction details by database for each code (connect time, interactions, characters, etc.) will continue to be provided so that individual code usage can be tracked if desired.

The registered user for a code will continue to receive a separate invoice showing any outstanding balances for an existing code which has been added to a “Master Account” until the outstanding balance is paid in full. All charges incurred on the code after it has been added to the “Master Account” will be invoiced to the “Master Code”. Therefore, two invoices for that code will be received until any outstanding balance is paid.

An example of a partial bill received for a Master Account with two codes mapped to it is shown in Figure 1. An application form for a Master Account is included in Appendix F. If you have any questions, please contact the MEDLARS Management Service Desk at 1-800-638-8480 from 8:30 a.m. to 5:00 p.m. ET, M-F.

ABC01			ABC02			ABC01			ABC02		
QUANTITY	RATE		CHEMID	QUANTITY	RATE	TOTALS	QUANTITY	RATE	OFFLINE CHARGES	QUANTITY	RATE
0.04	\$7.85	\$0.31	ONLINE CHARGES	1.52	\$12.14	PRIME HOURS	4.204	\$31.09	PRIME HOURS	0	\$0.00
83	\$0.13/100	\$0.11	PRIME HOURS	259.122	\$0.05	PRIME WORK UNITS	0.01	\$0.02	PRIME WORK UNITS	0	\$0.00
2,843	\$0.12/1K	\$0.34	PRIME CHARACTERS	19	\$1.30	PRIME CHARACTERS	240	\$0.02	PRIME CHARACTERS	0	\$0.00
0.01	\$5.10	\$0.05	NON-PRIME HOURS	63	\$3.00	NON-PRIME HOURS	411	\$2.41	NON-PRIME HOURS	0	\$0.00
10	\$0.07/100	\$0.01	NON-PRIME WORK UNITS	227	\$0.00	NON-PRIME WORK UNITS	100	\$0.00	NON-PRIME WORK UNITS	0	\$0.00
93	\$0.08/1K	\$0.01	NON-PRIME CHARACTERS	100	\$0.00	NON-PRIME CHARACTERS	0	\$0.00	NON-PRIME CHARACTERS	0	\$0.00
2	\$0.02	\$0.04	SEARCH STATEMENTS	0	\$212.00	SEARCH STATEMENTS	0	\$0.00	SEARCH STATEMENTS	0	\$0.00
1	\$0.01	\$0.01	CITATIONS	0	\$292.50	CITATIONS	0	\$0.00	CITATIONS	0	\$0.00
9	\$0.01	\$0.09	INTERACTIONS	0	\$0.00	INTERACTIONS	0	\$0.00	INTERACTIONS	0	\$0.00
			OFFLINE CHARGES	0	\$0.00	OFFLINE CHARGES	0	\$0.00	OFFLINE CHARGES	0	\$0.00
0	\$0.25	\$0.00	PAGES	0	\$0.00	PAGES	0	\$0.00	PAGES	0	\$0.00
0	\$1.00	\$0.00	OFFSEARCHES	0	\$0.00	OFFSEARCHES	0	\$0.00	OFFSEARCHES	0	\$0.00
0	\$0.00	\$0.00	SDI	0	\$0.00	SDI	0	\$0.00	SDI	0	\$0.00
		\$0.97	SUBTOTAL - CHEMID			GRAND TOTAL					
			HSDB								
0.10	\$10.00	\$1.00	ONLINE CHARGES	0.00	\$7.85	PRIME HOURS	0	\$0.13/100	PRIME HOURS	0	\$0.00
0	\$0.00/100	\$0.00	PRIME HOURS	0	\$0.12/1K	PRIME WORK UNITS	0	\$0.12/1K	PRIME WORK UNITS	0	\$0.00
6,492	\$0.12/1K	\$0.78	PRIME CHARACTERS	0.02	\$5.10	PRIME CHARACTERS	0.30	\$5.10	PRIME CHARACTERS	0	\$0.00
0.00	\$4.00	\$0.00	NON-PRIME HOURS	737	\$0.07/100	NON-PRIME HOURS	147,519	\$0.08/1K	NON-PRIME HOURS	0	\$0.00
0	\$0.00/100	\$0.00	NON-PRIME WORK UNITS	1	\$0.02	NON-PRIME WORK UNITS	9	\$0.02	NON-PRIME WORK UNITS	0	\$0.00
0	\$0.08/1K	\$0.00	NON-PRIME CHARACTERS	168	\$0.01	NON-PRIME CHARACTERS	42	\$0.01	NON-PRIME CHARACTERS	0	\$0.00
2	\$0.04	\$0.08	SEARCH STATEMENTS	0	\$0.25	SEARCH STATEMENTS	0	\$0.25	SEARCH STATEMENTS	0	\$0.00
0	\$0.00	\$0.00	CITATIONS	0	\$1.00	CITATIONS	0	\$1.00	CITATIONS	0	\$0.00
0	\$0.00	\$0.00	INTERACTIONS	0	\$1.00	INTERACTIONS	0	\$1.00	INTERACTIONS	0	\$0.00
10	\$0.02	\$0.20	OFFLINE CHARGES	0	\$0.00	OFFLINE CHARGES	0	\$0.00	OFFLINE CHARGES	0	\$0.00
0	\$0.25	\$0.00	PAGES	0	\$0.00	PAGES	0	\$0.00	PAGES	0	\$0.00
0	\$1.00	\$0.00	OFFSEARCHES	0	\$0.00	OFFSEARCHES	0	\$0.00	OFFSEARCHES	0	\$0.00
0	\$0.00	\$0.00	SDI	0	\$0.00	SDI	0	\$0.00	SDI	0	\$0.00
		\$2.06	SUBTOTAL - HSDB								
			MEDLINE								
1.24	\$7.85	\$9.73	ONLINE CHARGES	0.00	\$7.85	PRIME HOURS	0	\$0.13/100	PRIME HOURS	0	\$0.00
3,983	\$0.13/100	\$5.18	PRIME HOURS	0	\$0.12/1K	PRIME WORK UNITS	0	\$0.12/1K	PRIME WORK UNITS	0	\$0.00
234,105	\$0.12/1K	\$28.09	PRIME CHARACTERS	0.02	\$5.10	PRIME CHARACTERS	0.30	\$5.10	PRIME CHARACTERS	0	\$0.00
0.00	\$5.10	\$0.00	NON-PRIME HOURS	737	\$0.07/100	NON-PRIME HOURS	147,519	\$0.08/1K	NON-PRIME HOURS	0	\$0.00
9	\$0.07/100	\$0.01	NON-PRIME WORK UNITS	1	\$0.02	NON-PRIME WORK UNITS	9	\$0.02	NON-PRIME WORK UNITS	0	\$0.00
147	\$0.08/1K	\$0.01	NON-PRIME CHARACTERS	168	\$0.01	NON-PRIME CHARACTERS	42	\$0.01	NON-PRIME CHARACTERS	0	\$0.00
52	\$0.02	\$1.04	SEARCH STATEMENTS	0	\$0.25	SEARCH STATEMENTS	0	\$0.25	SEARCH STATEMENTS	0	\$0.00
402	\$0.01	\$2.91	CITATIONS	0	\$1.00	CITATIONS	0	\$1.00	CITATIONS	0	\$0.00
192	\$0.01	\$1.92	INTERACTIONS	0	\$1.00	INTERACTIONS	0	\$1.00	INTERACTIONS	0	\$0.00
0	\$0.25	\$0.00	OFFLINE CHARGES	0	\$0.00	OFFLINE CHARGES	0	\$0.00	OFFLINE CHARGES	0	\$0.00
0	\$1.00	\$0.00	PAGES	0	\$0.00	PAGES	0	\$0.00	PAGES	0	\$0.00
0	\$0.00	\$0.00	OFFSEARCHES	0	\$0.00	OFFSEARCHES	0	\$0.00	OFFSEARCHES	0	\$0.00
0	\$0.00	\$0.00	SDI	0	\$0.00	SDI	0	\$0.00	SDI	0	\$0.00
		\$48.89	SUBTOTAL - MEDLINE								
			SDILINE								
0.14	\$7.85	\$1.10	ONLINE CHARGES	0.00	\$7.85	PRIME HOURS	0	\$0.13/100	PRIME HOURS	0	\$0.00
138	\$0.13/100	\$0.18	PRIME HOURS	0	\$0.12/1K	PRIME WORK UNITS	0	\$0.12/1K	PRIME WORK UNITS	0	\$0.00
15,582	\$0.12/1K	\$1.88	PRIME CHARACTERS	0.02	\$5.10	PRIME CHARACTERS	0.30	\$5.10	PRIME CHARACTERS	0	\$0.00
0.00	\$5.10	\$0.00	NON-PRIME HOURS	737	\$0.07/100	NON-PRIME HOURS	147,519	\$0.08/1K	NON-PRIME HOURS	0	\$0.00
0	\$0.07/100	\$0.00	NON-PRIME WORK UNITS	1	\$0.02	NON-PRIME WORK UNITS	9	\$0.02	NON-PRIME WORK UNITS	0	\$0.00
0	\$0.08/1K	\$0.00	NON-PRIME CHARACTERS	168	\$0.01	NON-PRIME CHARACTERS	42	\$0.01	NON-PRIME CHARACTERS	0	\$0.00
7	\$0.02	\$0.14	SEARCH STATEMENTS	0	\$0.25	SEARCH STATEMENTS	0	\$0.25	SEARCH STATEMENTS	0	\$0.00
8	\$0.01	\$0.08	CITATIONS	0	\$1.00	CITATIONS	0	\$1.00	CITATIONS	0	\$0.00
12	\$0.01	\$0.12	INTERACTIONS	0	\$1.00	INTERACTIONS	0	\$1.00	INTERACTIONS	0	\$0.00
			OFFLINE CHARGES	0	\$0.00	OFFLINE CHARGES	0	\$0.00	OFFLINE CHARGES	0	\$0.00
100	\$0.25	\$25.00	PAGES	0	\$0.00	PAGES	0	\$0.00	PAGES	0	\$0.00
0	\$1.00	\$0.00	OFFSEARCHES	0	\$0.00	OFFSEARCHES	0	\$0.00	OFFSEARCHES	0	\$0.00
212	\$1.00	\$212.00	SDI	0	\$0.00	SDI	0	\$0.00	SDI	0	\$0.00
		\$240.50	SUBTOTAL - SDILINE								
			AIDS								
0.00	\$10.00	\$0.00	ONLINE CHARGES	0.00	\$7.85	PRIME HOURS	0	\$0.13/100	PRIME HOURS	0	\$0.00
0	\$0.00/100	\$0.00	PRIME HOURS	0	\$0.12/1K	PRIME WORK UNITS	0	\$0.12/1K	PRIME WORK UNITS	0	\$0.00
0	\$0.12/1K	\$0.00	PRIME CHARACTERS	0.02	\$5.10	PRIME CHARACTERS	0.30	\$5.10	PRIME CHARACTERS	0	\$0.00
0.00	\$8.00	\$0.00	NON-PRIME HOURS	737	\$0.07/100	NON-PRIME HOURS	147,519	\$0.08/1K	NON-PRIME HOURS	0	\$0.00
0	\$0.00/100	\$0.00	NON-PRIME WORK UNITS	1	\$0.02	NON-PRIME WORK UNITS	9	\$0.02	NON-PRIME WORK UNITS	0	\$0.00
0	\$0.08/1K	\$0.00	NON-PRIME CHARACTERS	168	\$0.01	NON-PRIME CHARACTERS	42	\$0.01	NON-PRIME CHARACTERS	0	\$0.00
0	\$0.04	\$0.00	SEARCH STATEMENTS	0	\$0.25	SEARCH STATEMENTS	0	\$0.25	SEARCH STATEMENTS	0	\$0.00
0	\$0.00	\$0.00	CITATIONS	0	\$1.00	CITATIONS	0	\$1.00	CITATIONS	0	\$0.00
0	\$0.00	\$0.00	INTERACTIONS	0	\$1.00	INTERACTIONS	0	\$1.00	INTERACTIONS	0	\$0.00
4	\$0.02	\$0.08	OFFLINE CHARGES	0	\$0.00	OFFLINE CHARGES	0	\$0.00	OFFLINE CHARGES	0	\$0.00
0	\$0.25	\$0.00	PAGES	0	\$0.00	PAGES	0	\$0.00	PAGES	0	\$0.00
0	\$1.00	\$0.00	OFFSEARCHES	0	\$0.00	OFFSEARCHES	0	\$0.00	OFFSEARCHES	0	\$0.00
0	\$0.00	\$0.00	SDI	0	\$0.00	SDI	0	\$0.00	SDI	0	\$0.00
		\$0.08	SUBTOTAL - AIDS								
			BACK66								
0.00	\$10.00	\$0.00	ONLINE CHARGES	0.00	\$7.85	PRIME HOURS	0	\$0.13/100	PRIME HOURS	0	\$0.00
0	\$0.00/100	\$0.00	PRIME HOURS	0	\$0.12/1K	PRIME WORK UNITS	0	\$0.12/1K	PRIME WORK UNITS	0	\$0.00
0	\$0.12/1K	\$0.00	PRIME CHARACTERS	0.02	\$5.10	PRIME CHARACTERS	0.30	\$5.10	PRIME CHARACTERS	0	\$0.00
0.00	\$8.00	\$0.00	NON-PRIME HOURS	737	\$0.07/100	NON-PRIME HOURS	147,519	\$0.08/1K	NON-PRIME HOURS	0	\$0.00
0	\$0.00/100	\$0.00	NON-PRIME WORK UNITS	1	\$0.02	NON-PRIME WORK UNITS	9	\$0.02	NON-PRIME WORK UNITS	0	\$0.00
0	\$0.08/1K	\$0.00	NON-PRIME CHARACTERS	168	\$0.01	NON-PRIME CHARACTERS	42	\$0.01	NON-PRIME CHARACTERS	0	\$0.00
0	\$0.04	\$0.00	SEARCH STATEMENTS	0	\$0.25	SEARCH STATEMENTS	0	\$0.25	SEARCH STATEMENTS	0	\$0.00
0	\$0.00	\$0.00	CITATIONS	0	\$1.00	CITATIONS	0	\$1.00	CITATIONS	0	\$0.00
0	\$0.00	\$0.00	INTERACTIONS	0	\$1.00	INTERACTIONS	0	\$1.00	INTERACTIONS	0	\$0.00
4	\$0.02	\$0.08	OFFLINE CHARGES	0	\$0.00	OFFLINE CHARGES	0	\$0.00	OFFLINE CHARGES	0	\$0.00
0	\$0.25	\$0.00	PAGES	0	\$0.00	PAGES	0	\$0.00	PAGES	0	\$0.00
0	\$1.00	\$0.00	OFFSEARCHES	0	\$0.00	OFFSEARCHES	0	\$0.00	OFFSEARCHES	0	\$0.00
0	\$0.00	\$0.00	SDI	0	\$0.00	SDI	0	\$0.00	SDI	0	\$0.00
		\$0.08	SUBTOTAL - BACK66								

Figure 1 - Master Account Transaction Detail

Effective January 1, 1992

NLM ONLINE PRICING ALGORITHM CHARGES TO DOMESTIC USERS ^{1/}

Current online prime time is 10:00 a.m. to 5:00 p.m. Eastern Time, Monday through Friday. All other online time is non-prime time.

File	Connect Charge (Per Hour)		Search Statement Charge	Online Citation Charge		Interaction Charge (Carriage Returns)	Computer Resources Disk Accesses (Per 100)		Online Character Charge (Per 1,000)	
	Non-Prime	Prime		Non-Prime	Prime		Non-Prime	Prime	Non-Prime	Prime
ELHILL COMPUTER										
MEDLINE & Backfiles	\$6.10	\$8.85	\$.02	\$.01	\$.02	\$.01	\$.07	\$.14	\$.08	\$.12
TOXLIT & TOXLIT65	29.10*	31.85*	.87*	.62*	.63*	.01	.07	.14	.08	.12
TOXLINE & TOXLINE65	6.10	8.85	.02	.01	.02	.01	.07	.14	.08	.12
CHEMLINE	29.10**	31.85**	.72**	.62**	.63**	.01	.07	.14	.08	.12
INFORM	6.10	8.85	.02	--	--	.01	.07	.14	--	--
All Other	6.10	8.85	.02	.01	.02	.01	.07	.14	.08	.12
PDQ	25.00	35.00	--	--	--	--	--	--	--	--

TOXNET COMPUTER

All Files	Non-Prime		.04	.05	--	--	.03	--	--	.10	.13
	8.92	11.28									
When calculated across the online algorithm, an average search costs about \$2.00 when using GRATEFUL MED and slightly more when using command language.											

*Includes royalty charges of \$23.00 per Connect Charge, \$0.85 per Search Statement, and \$0.61 per Online Citation Charge for TOXLIT and its Backfile, TOXLIT65.

**Includes royalty charges of \$23.00 per Connect Charge, \$0.70 per Search Statement, and \$0.61 per Online Citation Charge for CHEMLINE.

NLM OFFLINE CHARGES TO DOMESTIC USERS ^{1/}

Pages	Per Page
MEDLINE & Other Databases	\$0.30
TOXLIT & TOXLIT65	1.68 (includes \$1.38 royalty charge per page)
CHEMLINE	1.68 (includes \$1.38 royalty charge per page)
TOXNET Files	0.30
Offsearches	Per File
All Databases	\$1.00 (plus page charges)
Automatic SDI Searches	Per Search
SDILINE, AIDSLINE, AVLINE, CANCERLIT, CATLINE, HEALTH, POPLINE, TOXLINE	\$1.50 (plus page charges)
TOXLIT	6.70 (plus page charges; includes \$5.20 royalty charge)

^{1/} Non-U.S. online users incur charges under the NLM online pricing algorithm and are charged \$3.00 extra on the connect charge (per hour) portion and \$0.10 extra per offline printed page.

1992 Annotated MeSH - Highlights

Introduction

The following paragraphs are intended to highlight some of the changes that have been introduced for 1992. The topics are followed by page numbers from the introductory pages of the 1992 Annotated MeSH. Readers are urged to look at those pages for comprehensive coverage and explanations.

New Publication Type (page I-20)

A new Publication Type (PT) PRACTICE GUIDELINE was added for 1992. A revised definition for this PT was published on page 4 of the November-December 1991 *Technical Bulletin*.

New 1992 MeSH Headings

The new MeSH headings with scope notes are listed alphabetically on pages I-23 through I-73 of the 1992 Annotated MeSH. The headings are arranged by subcategory (i.e., B3, C4, etc.) on pages I-74 through I-84. They are also listed alphabetically together with the previously-indexed-under headings on pages I-85 through I-116. Your attention is also called to the article on pages 17-19 of the September - October 1991 *Technical Bulletin* highlighting new MeSH features. The terms listed below are just a selection of headings from the aforementioned listings. Please consult your 1992 Annotated MeSH for more information on the following terms and for the complete listing of new subject headings.

AIDS VACCINES
AIR POLLUTION, INDOOR
ANTICARCINOGENIC AGENTS
ANTIMUTAGENIC AGENTS
CAREGIVERS

CO-DEPENDENCY (PSYCHOLOGY)
COMPUTER SECURITY
CRACK COCAINE
DUTY TO WARN
ENCEPHALOPATHY, BOVINE SPONGIFORM
HEPATITIS E
HOUSING FOR THE ELDERLY
IMMUNOGLOBULINS, INTRAVENOUS
MEDICINE, AFRICAN TRADITIONAL
NEEDLESTICK INJURIES
NEURAL NETWORKS (COMPUTER)
PARENTAL LEAVE
SALVAGE THERAPY
SEVERE COMBINED IMMUNODEFICIENCY
TELEFACSIMILE
TREATMENT OUTCOME
UNIVERSAL PRECAUTIONS
WORKLOAD
YIN-YANG

Supplementary Chemical Records

Each year an inspection of the Supplementary Chemical Records discloses a number of entries that are used frequently enough to be elevated to MeSH main headings. In the past, terms have been deleted from the chemical tool and added to the MeSH without any specific notification. Beginning with the 1992 MeSH, any main heading created from a chemical tool entry will carry a history of its earlier presence in the Supplementary Chemical Records. Below are two sample records from the 1992 Annotated MeSH.

PRAVASTATIN

D4.615.638.930
D10.162.202.700

D8.373.740

(1S-(1 alpha(beta S*.delta S*),2 alpha,6 alpha,8 beta(R*).8a alpha)-1,2,6,7,8,8a-Hexahydro-beta,delta,6-trihydroxy-2-methyl-8-(2-methyl-1-oxobutoxy)-1-naphthaleneheptanoic acid. An antilipemic fungal metabolite isolated from cultures of *Nocardia autotrophica*. It acts as a competitive inhibitor of HMG CoA reductase (HYDROXYMETHYLGLUTARYL COA REDUCTASES).

an anticholesteremic agent from fungus *Nocardia*; do not use /defic /physiol 92; was PRAVASTATIN (NM) 1986-91
use PRAVASTATIN (NM) to search PRAVASTATIN 1986-91
X EPTASTATIN

PRECAUTIONS, UNIVERSAL see UNIVERSAL PRECAUTIONS
G3.850.780.200.925

In this first record, the supplemental chemical was elevated to a MeSH heading with no change. The

History Note tells you that it existed as a chemical (NM) from 1986-1991. The Online Note tells you that you can search the chemical during the period before it became a descriptor by qualifying the name with (NM).

ANTIGENS, CD8

D24.185.101.100.110.105 D24.185.101.100.894.105
 D24.611.216.301.264.35.105 D24.611.216.301.264.894.105

Differentiation antigens found on thymocytes and on cytotoxic and suppressor T-lymphocytes. CD8 antigens are members of the immunoglobulin supergene family and are associative recognition elements in MHC (Major Histocompatibility Complex) Class I-restricted interactions.

human differentiation antigens only: for mouse use ANTIGENS, LY; only likely qualify are /admin /anal /csf /class /genet /immunol /isol /rad eff /stand /tox /urine

92; was CD8 ANTIGEN (NM) 1988-91
 use ANTIGENS, CD8 (NM) to search CD8 ANTIGEN (NM) 1988-91
 see related
 CD4-CD8 RATIO
 X CD8 ANTIGENS
 X LEU-2 ANTIGENS
 X T8 ANTIGENS, T-CELL

In the second illustration, the name of the chemical was changed when it was elevated to descriptor status. File maintenance replaces the old form of the name with the new name across all file years. Thus, the Online Note tells you to use the new form of the name when searching the chemical as an NM in earlier years.

CX: Consider Also Terms At ...

The creation of a new field, the CX field, for MeSH records and MeSH products was announced in 1991. The origin and history of this field are as follows. In 1974 a refinement was added to the annotations in MeSH; for each of the major organs of the body that are of Anglo-Saxon derivation, a linguistic reminder was appended to the end of the annotation advising the user of additional headings beginning with Latin or Greek forms. The legend read:

consider also terms under

For example, the 1990 Annotated MeSH entry for BRAIN has the annotation followed by the consider also statement.

●BRAIN

A8.186.211+
 GEN; /anal = BRAIN CHEMISTRY; /blood supply: consider also CEREBROVASCULAR CIRCULATION, CEREBRAL ARTERIES, CEREBRAL VEINS, CRANIAL SINUSES, ...
 ... brain-isolated, encéphale isolé, cerveau isolé: index
 DECEREBRATE STATE, consider also terms under CEREBR- & ENCEPHAL-
 /enzymology was BRAIN ENZYMOLOGY 1964-65; /physiology was BRAIN PHYSIOLOGY 1965; BRAIN ELECTROPHYSIOLOGY was heading 1964-65
 X CEREBRUM

In contrast, in 1991 the new CX field appeared in MeSH on the line immediately following the main heading, thus:

●BRAIN

consider also terms at CEREBR- and ENCEPHAL-
 A8.186.211+
 GEN; /anal or /chem = BRAIN CHEMISTRY; /blood supply: consider also CEREBROVASCULAR CIRCULATION, CEREBRAL ARTERIES, CEREBRAL VEINS, CRANIAL SINUSES, ...
 ... brain-isolated, encéphale isolé, cerveau isolé: index DECEREBRATE STATE
 /enzymology was BRAIN ENZYMOLOGY 1964-65; /physiology was BRAIN PHYSIOLOGY 1965; BRAIN ELECTROPHYSIOLOGY was heading 1964-65
 X CEREBRUM

and the legend at the end of the annotation was eliminated.

Fifty-five such legends were printed in the 1991 Annotated MeSH. For 1992, eight more have been printed. Figure 1 is a complete list of all 63 linguistic relationships available as of 1992. The first column is the MeSH heading at which the CX note appears; the second column is the additional concept. Those added in 1992 are marked with an * .

MAIN HEADING

consider also terms at

<p>* ANUS BLADDER BLOOD BLOOD VESSELS BONE AND BONES</p> <p>BONE MARROW BRAIN BREAST CARTILAGE CATS</p> <p>CATTLE</p> <p>* COLD</p> <p>* COMMON BILE DUCT CORNEA DEATH</p> <p>DOGS EAR EYE EYELIDS FUNGI</p> <p>* GALLBLADDER HEARING HEART</p> <p>* HEAT HIP</p> <p>HORSES INTESTINES JOINTS KIDNEY KIDNEY PELVIS LARYNX</p> <p>* LIGHT LIVER LUNG MOUTH</p> <p>MUSCLES MYOCARDIUM NAILS NECK NEOPLASMS</p> <p>NERVOUS SYSTEM NOSE OVARY OVUM</p> <p>* PITUITARY GLAND</p> <p>RECTUM SALIVARY GLANDS SKIN SKULL</p> <p>* SOUND</p> <p>SPINAL CORD SPINE STOMACH SWINE TEARS</p> <p>TESTIS TONGUE TOOTH UMBILICUS UTERUS</p> <p>VAGINA VEINS VISCERA</p>	<p>PROCT- CYST- & VESIC- HEM- ANGI-, VASA-, VASC- & VASO- OSSI- & OSTE-</p> <p>MYEL- CEREBR- & ENCEPHAL- MAMMA- & MAST- CHONDRO- FELINE</p> <p>BOVINE CRYO- CHOLEDOCH- KERAT- THANATO-</p> <p>CANINE OTI- & OTO- OCUL-, OPHTHALM-, OPT- & VIS- BLEPHAR- MYCO-</p> <p>CHOLECYST- ACOUSTIC & AUDIO- CARDI- & MYOCARDI- THERM- COX-</p> <p>EQUINE ENTER- ARTH- GLOMERUL-, NEPHR-, PYEL- & RENAL PYEL- VOCAL & VOICE PHOTIC & PHOTO- HEPAT- PNEUMO- & PULMON ORAL, ORO- & STOMAT-</p> <p>MYO- CARDIAC & HEART ONYCHO- CERVICAL & CERVICO- CANCER, CARCINO-, ONCO- & TUMOR</p> <p>NERVE & NEUR- NAS- & RHIN- OOPHOR- & THEC- OO- HYPOPHYS-</p> <p>PROCT- SIAL- CUTANEOUS, CUTIS & DERMAT- CRANI- PHON-</p> <p>MYEL- SPONDYL- & VERTEBRAL GASTR- HOG & PORCINE DACRYO- & LACRIMAL</p> <p>ORCHI- GLOSS- & LINGUAL DENT- & ODONTO- OMPHALO- HYSTER-</p> <p>COLPO- PHLEB- SPLANCHN-</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Figure 1

see related References: 1992 Philosophy

One of the major uses of a see related term is to show a relationship between two main headings that are not in the same category or tree. Occasionally, both terms are in the same tree but on different branches. However, most see related joinings bring together headings from two different trees and categories.

For 1992, 914 see related references were created of which the greatest number were inspired by directions in annotations. These came from two sources of expression:

- the phrase reading "consider also"
- the phrase reading "available also"

When these two phrases stood alone without reference to a subheading, the phrases were deleted and the "consider also" or "available also" was made a see related entry as in the entry for BODY BURDEN shown below.

1991 ENTRY

BODY BURDEN

E5.799.638.231 G3.850.460.200+
H1.671.768.765.588.165

NIM; not restricted to radioactive substances, applicable to chemical, metal or radioactive substances; no qualif, DRUG RESIDUES & PESTICIDE RESIDUES are available
73(71), only radioactive substances 1971-77

1992 ENTRY

BODY BURDEN

E5.799.638.231 G3.850.460.200+
H1.671.768.765.588.165

NIM; not restricted to radioactive substances; applicable to chemical, metal or radioactive substances; no qualif
73(71), only radioactive substances 1971-77
see related
DRUG RESIDUES
PESTICIDE RESIDUES

When the phrases were preceded by a subheading, in most cases both the subheading and the phrase were retained but the pertinent term referred to was created also as a see related.

1991 ENTRY

ALKALIES

D1.455.121
singular form is "alkali"; do not use /analogs /biosyn /defic /physiol; /adv eff; consider also MILK-ALKALI SYNDROME

1992 ENTRY

ALKALIES

D1.455.121
singular form is "alkali"; do not use /analogs /biosyn /defic /physiol; /adv eff; consider also MILK-ALKALI SYNDROME see HYPERCALCEMIA
see related
HYPERCALCEMIA

The most commonly encountered subheadings involved in this project supplying see related references from the annotations were: /deficiency, /drug effects, /drug therapy, /surgery and /therapy.

In addition, here are the major instances where a see related reference has been supplied:

From an organ to a surgical procedure
e.g., ADIPOSE TISSUE see related LIPECTOMY

From an organ to an endoscopic procedure
e.g., CERVIX UTERI see related COLPOSCOPY

From an organ to an -ostomy
e.g., BLADDER see related CYSTOMOTY

From an organ to a radiographic procedure
e.g., BILE DUCTS see related CHOLANGIOGRAPHY

From an organ to a drug acting on it
e.g., BRONCHI see related BRONCHOCONSTRICTOR AGENTS; BRONCHODILATOR AGENTS

From an organ to a corresponding physiological process
BONE AND BONES see related OSTEOGENESIS

From a disease to a drug treating it
AMEBIASIS see related AMEBICIDES

From a drug or chemical to its clinical deficiency
e.g., ALDOSTERONE see related HYPOALDOSTERONISM

From a drug or chemical to its clinical excess

e.g., ALDOSTERONE see related
HYPERALDOSTERONISM

From a drug or chemical to its corresponding
RECEPTORS heading

e.g., ANDROGENS see related RECEPTORS,
ANDROGEN

From a physiological process to a corresponding
disease

e.g., BLOOD PRESSURE see related
HYPERTENSION; HYPOTENSION

From a physiological process to a drug or chemical
acting on it

e.g., BLOOD COAGULATION see related
ANTICOAGULANTS; COAGULANTS

From an organism to a drug or chemical acting on
it

e.g., CRYPTOSPORIDIUM see related
COCCIDIOSTATS

Form Subheadings for Catalogers

Seventeen form subheadings for catalogers were inadvertently omitted from the introduction (pages I- 171 to I- 185) to the 1992 Annotated MeSH. These 17 form subheadings are included in Appendix N. You may wish to copy these pages and insert them into your copy of Annotated MeSH.

SEARCH HINTS: Effects of the Gene Symbol (GS) Field on MEDLARS Searching

The Gene Symbol (GS) field is present in MEDLINE, AIDSLINE, BIOTECHSEEK, CANCERLIT, SDILINE, and TOXLINE.

The symbols are abbreviated forms of the gene names. They are usually a combination of upper- and lowercase letters, special characters and numbers. The field is directly searchable and, effective December 9, 1991, is textextracted so that unit terms can be searched qualified with (GS).

With this explanation in mind there are two search hints that need to be given in order for command-language searchers to obtain the best search results. The first search hint involves searching with or without qualifiers and the second involves command-language searching with automatic downloading programs.

Qualifying or not Qualifying a Search

When a user searches for a term unqualified by a field mnemonic, the system will look in the index for a match. It will look initially at only specific fields, including but not limited to: Author (AU), MeSH Heading (MH), Date of Entry (DA), Entry Month (EM), and Gene Symbol (GS). Generally, most of these fields are structured in a way so completely different from the others that only one field will have a match on a particular term or character string. (Fields in the index that are not checked during an unqualified search include Text Word (TW), MeSH Heading Fragment (MHF), Title Abbreviation (TA), Journal Code (JC), etc.). If more than one field matches then the user gets a multimeaning message. See Figure 1. In this case the user is alerted to the double match because the unqualified term is a MeSH heading which is one of the fields searched automatically in an unqualified search. The user can then select the correct meaning.

```
SS 1 /C?
USER:
Male
PROG:
MM (MALE) (2)
    1 MALE (MH)
    2 MALE (GS)
```

Figure 1 - Multimeaning message generated by an unqualified search term

If there is no match on the character string in the fields checked, the system will check further for a cross reference to a MeSH heading. Because the Gene Symbol is one of the fields the system will automatically check during a search with an unqualified term, a potential problem exists. The conflict here is that if the search is on a term which is both a gene symbol and a cross-reference to a MeSH Heading, then when a search is done on that unqualified term the citations retrieved will be

exclusively the postings found on the term in the GS field; there will be no mapping to the MeSH heading. See Figure 2. Because a valid match is found in the GS field, the system does not search any further to check for cross-references. The user may well be puzzled after looking at the titles retrieved during such a search. However, if you print the GS field, you will find the term that was being searched and the puzzle is solved (although not the problem - see Interim Solutions).

SS 1 /C?

USER:

ARC

- The user is searching for AIDS-RELATED COMPLEX using the Data Form Abbreviation shown in MeSH.

PROG:

SS (1) PSTG (3)

- The user is surprised by the low number of postings; a check of the titles reveals records that have nothing to do with the topic being searched. Another check of the records for the GS field shows that there is a gene symbol ARC in each record.

SS 2 /C?

USER:

prt 1 ti, gs

1

TI - Anaerobic regulation of transcription initiation in the arcDABC operon of Pseudomonas aeruginosa.

GS - arcABC

GS - anr

GS - arD

GS - arB

GS - arC

Figure 2 - Retrieval with the term ARC unqualified

In review, AIDS-RELATED COMPLEX was not picked up as a MeSH heading because there was a match on ARC in the GS field. Automatic mapping of cross-references, entry versions, and other entry vocabulary to the preferred MeSH headings happens only for an unqualified term when there are no postings for the term in the database index. If the user had qualified the term ARC (MH) then the system would have looked further once it did not find the term as a MeSH heading to see if it was a cross reference.

Interim Solutions

1. Always qualify your MeSH heading search, especially when using the short forms, synonyms, or cross-references, or
2. Stop using short forms that may also be interpreted as gene symbol values.

NLM is working on a permanent solution. The plan is to add Gene Symbol (GS) to the list of elements that must be qualified to search. By requiring the (GS) qualifier, the system cannot interpret an unqualified term as a gene symbol and therefore will always perform the automatic mapping of cross references to MeSH headings.

Automatic Downloading Programs

Command-language users who have an automatic downloading program designed to respond "Y" to the CONTINUE PRINTING? (YES/NO) message until it sees the "NP (Y)" message, at which point it logs off, need to beware. The Gene Symbol (GS) field now has one posting to "Y" in MEDLINE and until users alter their programs by adding an "OR" condition to recognize either the "NP (Y)" message or the "SS (#) PSTG (#)" message, then the user could find his or her search in an endless loop.

Searching on Chemical Names

Introduction

The RN (CAS Registry/EC Number) field is a composite field consisting of a unique number in hyphenated form assigned by Chemical Abstracts Service (or for enzymes the EC number assigned by the Enzyme Commission of the International Union of Pure and Applied Chemistry) and a Name of Substance (NM) listed in parentheses following the RN. The RN and NM values exist for both MeSH Heading Category D chemical and supplementary chemical terms (i.e., chemical names that are controlled but are not MeSH Headings). If you

retrieve a citation containing an RN and give the command PRINT RN, you will see both the CAS Registry Number and the Name of Substance .

A registry number of zero means there is no real registry number for that NM and this dummy value is entered in order to create a searchable NM field. See Figure 1. The NM exists only as part of the RN field, but it may be searched separately using the term within the parentheses with the qualifier (NM). It cannot be printed separately, you must use the command PRT RN in order to see the NM. This situation is analogous to that of the Subheading (SH) field; subheadings may be searched separately using the qualifier (SH) but they are part of and can be viewed only in the MeSH Heading (MH) field.

USER:

prt rn

RN - 0 (tablets)

RN - 50-78-2 (Aspirin)

RN - 69-72-7 (salicylic acid)

- An RN of 0 was created to allow searching on tablets (nm).

Figure 1 - RNs for a record retrieved with the Mesh Heading ASPIRIN

Update

As part of the Year-End Processing for 1991, NLM began to add the CAS Registry/EC Number (RN) field to citations indexed with a chemical name in the MeSH heading field that lacked the corresponding RN data (number and name of substance). If no registry number existed for the chemical, a zero was put in the field. This corrective action is necessary because some NM terms were elevated to MeSH Heading status each year, but the zero RN data were not consistently transferred from the old supplementary chemical record to the new MeSH descriptor record. This situation created MeSH chemical headings without retrievable NM's. So an unwary searcher would search on an MH and be unable to retrieve the earlier records indexed under the NM.

This year about 800 MeSH Category D chemical terms had an RN field added. Since the project is not

expected to be completed until the 1993 system is introduced, searchers of chemicals should follow the recommendations outlined on pages 46-48 the May-June 1991 *Technical Bulletin*. For your convenience this information is repeated in the following paragraph. As you may recall from the article, a search on a chemical introduced as a Mesh Heading from 1980 to 1991 may not yield complete retrieval unless you OR the NM and MH postings. This situation will be corrected by the end of 1992; all records with MeSH headings for chemicals will then have searchable NMs. For this year however follow the suggestions below.

Suggestions for Complete Retrieval

If the MH for the chemical is a new 1992 term, you may safely search using only the NM.

If the MH was introduced between 1980-1991, neighbor the chemical term. Compare the counts for the NM and MH values and if they are different then you must combine the fields together with the Boolean operator OR. See the example on page 47 of the 1991 May-June *Technical Bulletin*. Alternatively you may select both the MH and the NM. See Figure 2. This problem will disappear once the project to add the RN field is completed, at which point searching on the NM alone will yield complete retrieval.

If the chemical existed as a MeSH heading prior to 1980 and you are searching for it in all the files from 1966 forward, use the procedure outlined above to search after 1980. For the years 1966-1979 search on the MH value. Remember NM wasn't introduced until 1980 and there are no NM postings in M72 or M66 and extremely few in M77.

SS 1 /C?

USER:

nbr interleukin-9

PROG:

SELECT # POSTINGS TERM

1	141	INTERLEUKIN-8 (MH)
2	126	INTERLEUKIN-8 (NM)
3	2	INTERLEUKIN-9 (MH)
4	21	INTERLEUKIN-9 (NM)
5	1	INTERLEUKINE (TW)

UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:

sel 3-4

PROG:

SS (1) PSTG (21)

- Combining the 1992 MeSH Term with the NM gives the same postings as shown next to the NM. Searching only on NM gives complete retrieval and is more cost effective and computer efficient.

SS 2 /C?

USER:

sel 1-2

- Combining the 1991 MH with the NM increases the retrieval. Therefore it's necessary to OR the MH and NM to get complete retrieval. This is true of any chemical introduced as a MeSH Heading from 1980-1991.

PROG:

SS (2) PSTG (271)

Figure 2 - Searching a 1992 MH vs. Searching a 1991 MH

History Notes

For any chemicals added as MeSH headings in 1992, history notes and online notes have been added to the 1992 Annotated MeSH and the online MeSH file to alert users to the fact that a chemical may have existed in the system previously in another field even though it is new as a MeSH heading. See Figure 3. The note gives the date a term came into

existence as an NM, so that you know up front how far back your search on term (NM) will retrieve data. The note shows an ending date for the NM field of 1991 (it then became elevated to a MeSH heading). However, because records with MeSH headings for chemicals retain their RN and NM fields, you may continue to search on the NM for 1992 data forward as well.

SS 1 /C?

USER:

file mesh

PROG:

YOU ARE NOW CONNECTED TO THE MESH VOCABULARY (1992) FILE.

SS 1 /C?

USER:

interleukin-9 (MH)

SS 2 /C?

USER:

prt mh, hn, ol

PROG:

1

MH - Interleukin-9

HN - 92; was Interleukin 9 (NM) 1989-91

OL - use INTERLEUKIN-9 (NM) to search INTERLUEKIN-9 1989-1991

Figure 3 - MeSH Heading with History and Online Notes

NLM Publications

The following NLM Publications may now be ordered:

1992 Index Medicus Subscription

Order number: IM92 (INDEX MEDICUS)

The price is \$257.00 (\$321.25 non-U.S.). The price for single issues is \$41.00 (\$51.25 non-U.S.) per issue.

Source: Superintendent of Documents,
U.S. Government Printing Office

The first price includes twelve monthly issues plus Medical Subject Headings ("Black and White" MeSH) and the List of Journals Indexed in Index Medicus (LJI) which are automatically included with the January issue.

1992 Medical Subject Headings ("Black and White MeSH")

Order number: S/N 717-132-00002-5

The price is \$36.00 (\$45.00 non-U.S.).

Source: Superintendent of Documents,
U.S. Government Printing Office

This publication is for use with the printed Index Medicus. Online searchers should use the Medical Subject Headings—Annotated Alphabetic List 1992 instead. Ordering information for the 1992 Annotated MeSH from NTIS was provided in the July-August 1991 issue of the *Technical Bulletin*.

1992 List of Journals Indexed for Index Medicus (LJI)

Order number: S/N 717-132-00001-7

The price is \$16.00 (\$20.00 non-U.S.).

Source: Superintendent of Documents,
U.S. Government Printing Office

MEDLARS Management Section suggests that online searchers may want to use the List of Serials Indexed for Online Users, a more comprehensive list of all titles indexed over time for several MEDLARS files. See ordering information on the following page. The LJI contains only currently indexed titles for Index Medicus.

1991 Cumulated Index Medicus (CIM)

Order number: S/N 617-052-00299-0

The price is \$301.00 (\$376.25 non-U.S.).

Source: Superintendent of Documents,
U.S. Government Printing Office

This publication is a 16-volume cumulation of the citations appearing in the Index Medicus for 1991. Orders may be placed now, but it will not be available for distribution until the end of April 1992.

To order publications from the Superintendent of Documents, contact:

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

1992 List of Serials Indexed for Online Users (LSIOU)

Order number: PB92-115419/GBB

Hardcopy price: \$24.00 U.S./Canada/Mexico
\$48.00 all other locations

Microfiche price: \$12.50 U.S./Canada/Mexico
\$25.00 all other locations

Source: NTIS

This publication is designed to provide complete bibliographic information on serials and congress proceedings cited in four MEDLARS files: MEDLINE (including the backfiles), BIOTECHSEEK (abbreviated BIOSEEK), HEALTH, and POPLINE.

**National Library of Medicine
Recommended Formats for Bibliographic
Citation**

Order number: PB91-182030

Price: \$27.00 U.S./Canada/Mexico
\$54.00 all other locations

Source: NTIS

This publication, prepared by NLM's Reference Section, is now available from the National Technical

Information Service. Intended for health professionals, editors, and librarians, this publication provides bibliographic citation formats for 14 different types of published and unpublished material, ranging from the more traditional journal articles and books to the newer electronic data formats such as CD-ROM. It shows what elements are needed for a citation to each type of material and what punctuation to use, and gives numerous examples from the biomedical literature to illustrate the recommendations. Produced with the cooperation of the International Committee of Medical Journal Editors, this publication also serves to document NLM's rules for the structure of citations for Index Medicus and MEDLINE.

Authors who are compiling lists of references for their publications, editors who are revising such lists, and librarians and others involved in formatting bibliographic citations should all find this a valuable tool. For any questions on this publication, call Karen Patrias at 301-496-6097.

To order documents from NTIS:

Use the order form in Appendix L or call 800-553-NTIS or 703-487-4650 for telephone orders with a credit card or NTIS deposit account. There is a \$3.00 (U.S./Canada/Mexico) shipping handling charge required for each order (\$4.00 all other locations). There is an additional charge of \$7.50 for orders placed with a purchase order.

Corrections to the LJl and the LSIUO

When the 1992 List of Journals Indexed in Index Medicus (LJI) and the List of Serials Indexed for Online Users (LSIOU) went to press, NLM staff had been advised that Nursing Outlook had ceased publication. Therefore, this journal is not listed in the main section of the List of Journals Indexed in Index Medicus, and the entry in the List of Serials Indexed For Online Users indicates that the journal ceased publication and is no longer indexed. NLM staff have since learned that Nursing Outlook has NOT ceased publication, but has changed publishers. It continues to be indexed for Abridged Index

Medicus (AIM), Index Medicus (IM), and International Nursing Index (INI).

The 1992 List of Serials Indexed for Online Users incorrectly indicates that Journal of Emergency Nursing ceased and was continued by Journal of ET Nursing. Users should note that the Journal of Emergency Nursing continues to be published under the same title, and Journal of ET Nursing continues Journal of Enterostomal Therapy.

The entries for the three journals shown below in Figure 1 indicate the correct status of these titles. You may wish to copy and paste them into your LJl or LSIUO.

Nurs Outlook

* NURSING OUTLOOK (ST. LOUIS MO)
 1.1953--
 ISSN 0029-6473 *** JC: O9C
 SUPERSEDES PUBLIC HEALTH NURSING.
 IMPRINT VARIES.
 W1 WU655 N35100000

J Emery Nurs

* Journal of Emergency Nursing (ST. LOUIS MO)
 1.1975--
 ISSN 0099-1767 *** JC: KRU
 ISSUES FOR JAN/FEB-MAR 1975 HAVE NO
 VOL. NUMBERING BUT CONSTITUTE VOL. 1,
 NO. 1-2. PUBLISHER VARIES:
 EMERGENCY DEPARTMENT NURSES
 ASSOCIATION, VOLS. 1-13, 1975-1987;
 MOSBY-YEAR BOOK, VOL. 14, 1988--
 W1 J26 (M) J07200000

J ET Nurs

* Journal of ET Nursing (ST. LOUIS MO)
 18N3, MAY/JUN 1991--
 ISSN 1055-3045 **** JC: A2Y
 CONTINUES: JOURNAL OF ENTEROSTOMAL
 THERAPY. OFFICIAL PUBLICATION OF THE
 INTERNATIONAL ASSOCIATION FOR
 ENTEROSTOMAL THERAPY.
 W1 J0644CG (M) SR0070526

Figure 1

National Library of Medicine - Reference Bibliography Series

The Reference Section of the National Library of Medicine produces two bibliographic series to increase awareness of the literature among all health professionals.

AIDS Bibliography

The AIDS Bibliography is a monthly listing of recent references to journal articles, books, and audiovisual materials. The bibliography contains citations to all preclinical, epidemiologic, diagnostic, and prevention areas added to NLM's AIDSLINE database. AIDS is available on either a subscription \$77 (\$99.25 foreign) or an individual title \$7.50 (\$9.38 foreign) basis from the Superintendent of Documents.

Current Bibliographies in Medicine (CBM)

Each publication in this series is compiled from searches of the literature contained in a variety of online databases. A unique product of NLM, these

bibliographies represent a considerable investment of time and online resources. NLM databases utilized include MEDLINE, AIDSLINE, BIOETHICSLINE, CATLINE, HEALTH PLANNING & ADMINISTRATION, and TOXLINE, among others. For the time periods and languages covered, they are exhaustive in scope. Citations are reviewed for relevance, edited to a uniform citation style and organized by subject. Bibliographies are on topics of current popular interest in medicine and include all bibliographies prepared in support of the National Institutes of Health Consensus Development Conferences. A MEDLINE search strategy is included so that the contents of the bibliography could be updated by others.

Topics in 1991 included Acoustic Neuroma, Adverse Effects of Fluoxetine (Prozac), Diagnosis and Treatment of Depression in Late-Life, and Regional Medical Programs.

The CBM's are available on either a subscription \$41 (\$51.25 foreign) or an individual title \$3.25 (\$4.06 foreign) basis from:

Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402
GPO Phone Orders: 202-783-3238

NLM Data on CD-ROM

The NLM leases MEDLINE and other databases on magnetic tape to many licensees, both domestic and abroad. Some of these licensees use NLM databases to create CD-ROM products. The NLM itself does not currently distribute its databases on CD-ROM. The following is a list of those licensees who, at the time of this writing, have produced CD-ROM products using leased NLM data. For information about their products, we suggest you contact these licensees.

Aries Systems Corporation
1 Dundee Park
Andover, MA 01810
508-475-7200

Cambridge Scientific Abstracts
7200 Wisconsin Avenue, Suite 601
Bethesda, MD 20814
301-961-6700; 800-843-7751

CD-Plus, Inc.
333 Seventh Avenue, 6th Floor
New York, NY 10001
212-563-3006

DIALOG Information Services
3460 Hillview Avenue
Palo Alto, CA 94304
415-858-3785; 800-334-2564

EBSCO Electronic Information
P.O. Box 325
447 Old Boston Road, Suite 10
Topsfield, MA 01983
508-887-6667; 800-221-1826

Health Care Information, Inc.
2335 American River Drive, Suite 307
Sacramento, CA 95825
916-648-8075; 800-468-1128

Maxwell Electronic Publishing
124 Mount Auburn Street
Cambridge, MA 02138
617-661-2955 Ext. 20; 800-342-1338

SilverPlatter Information
100 River Ridge Drive
Norwood, MA 02062-2599
617-769-2599

WLN
P.O. Box 3888
Lacy, WA 98503-0888
1-800-342-5956
(CATLINE only)

FACT SHEETS

The following information fact sheets on National Library of Medicine divisions, programs and resources are available upon request from:

Office of Public Information
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894
301-496-6308

Access to Audiovisual Materials	August 1991
Acid Free Paper for Biomedical Literature	August 1991
AIDS Information Resources	December 1990
AIDSLINE	September 1990
AIDSTRIALS and AIDSDRUGS	Spring 1990
ANSWER	September 1989
Assistance for Research Investigators	June 1989
The Audio Knowledge Acquisition Tool	December 1990
Bibliographic Services Division	October 1991
BIOETHICSLINE	October 1989
CCRIS (Chemical Carcinogenesis Research Information System)	February 1988
CHEMID (Chemical Information Online)	March 1990
CHEMLEARN	July 1988
CHEMLINE (Chemical Dictionary Online)	July 1989
Collection Development	January 1991
Computer Science Branch	November 1990
DART (Developmental & Reproductive Toxicology Database)	April 1990
DBIR (Directory of Biotechnology Information Resources)	Summer 1989
DIRLINE (Directory of Information Resources Online)	March 1990
DOCLINE	June 1990
Electronic Document Storage and Retrieval	November 1988
EMIC (Environmental Mutagen Information Center Database)	May 1989
Entrez Retrieval System (see Natl Center for Biotech Info)	August 1991
Errata, Retraction, and Comment Policy	June 1989
E.T. Net (Educational Technology Network)	March 1991
Expert Systems Program	November 1990
Grant Programs	May 1989
GRATEFUL MED Version 5.0	August 1991

HISTLINE (History of Medicine Online)	April 1991
Historical Prints & Photographs Videodisc	April 1985
History of Medicine Division	June 1990
HSDB (Hazardous Substances Data Bank)	September 1989
Interlibrary Loan Policy	October 1991
IRIS (Integrated Risk Info. System)	April 1990
The Learning Center for Interactive Technology	November 1991
Learning Resource Center	August 1991
Lister Hill National Center for Biomedical Communications	April 1990
Loansome Doc	August 1991
Machine Learning Project	November 1990
Medical Informatics, Training in	July 1990
Medical Subject Headings	May 1991
MedIndEx Project	March 1991
MEDLINE on CD-ROM	October 1990
MEDLINE Use by Physicians, Statistical Profile	March 1991
MEDTUTOR (Microcomputer-Based Training for MEDLINE)	No date
Microfilm Sales Program	December 1990
National Center for Biotechnology Information	April 1991
National Center for Biotechnology Entrez	August 1991
Natural Language Systems Project	November 1990
The National Library of Medicine	August 1991
National Network of Libraries of Medicine	October 1991
NLM Chemical & Toxicological Files Cost Sheet	No date
NLM International MEDLARS Centers	August 1991
NLM Online Data Bases and Databanks	June 1991
NLM Online Services Program Policy Statement	January 1990
NLM Policy on Database Pricing	December 1989
NLM Publication Grant Program	October 1989
NLM Research Training Program in Medical Informatics; Training Directors	No date
NLM Resources in Veterinary Medicine	June 1990
Online Indexing System	June 1989
Preservation Program	September 1991
Public Services Division	October 1989
Regional Medical Library Network Membership Program	November 1990
Resource Grants	No date
Information Access Grants	
Information Systems Grants	

Resources for the History of Nursing in the National Library of Medicine, History of Medicine Division	July 1988
RTECS (Registry of Toxic Effects of Chemical Substances)	August 1990
SERHOLD	August 1991
The Special Foreign Currency Program	October 1988
Technical Services Division	August 1991
The TIME Project (Technical Innovations in Medical Education)	November 1988
TIP Files Demo Disk	No date
Toxicology Information Program	March 1991
TOXLEARN (Microcomputer-Based Training for TOXLINE)	No date
TOXLINE (Toxicology Information Online)	March 1989
TOXNET (Toxicology Data Network)	March 1990
TRI (Toxic Chemical Release Inventory)	July 1989
Unified Medical Language System	November 1991
UMLS Information Sources Map	November 1991
UMLS Metathesaurus	November 1991
UMLS Semantic Network	November 1991
Videodisc Projects Lister Hill Center	April 1990

SERIALS UPDATE

INDEXED TITLES UPDATED, NOVEMBER - DECEMBER 1991

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

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

TITLES SELECTED FOR INDEXING, NOVEMBER DECEMBER 1991

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>IDL CRANIO CLINICS INTERNATIONAL
CRANIO CLIN INT
1N1,1991--
WILLIAM AND WILKINS
BALTIMORE MD UNITED STATES
INDEXING BEGAN WITH V1N1,1991.
IN PROCESS 1050-009X
SR0070568 JC: A96</p> | <p>IM JOURNAL OF LAPAROENDOSCOPIC SURGERY
J LAPAROENDOSC SURG
1,1990--
MARY ANN LIEBERT
NEW YORK NY UNITED STATES
INDEXING BEGAN WITH V1N1,1990.
W1 J0734J 1052-3901
SR0070286 JC: A93</p> |
| <p>BTC CURRENT OPINION IN BIOTECHNOLOGY
CURR OPIN BIOTECHNOL
1N1,OCT 1990--
CURRENT BIOLOGY
LONDON ENGLAND
INCLUDES BIBLIOGRAPHY OF THE CURRENT WORLD
LITERATURE.
INDEXING BEGAN WITH V1N1,OCT 1990.
W1 CU799GBL 0958-1669
SR0065966 JC: A92
CURRENT BIOLOGY LTD.,34-42 CLEVELAND
ST,LONDON W1P 5FB,ENGLAND</p> | |

TITLE CHANGES, NOVEMBER - DECEMBER 1991

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>IM ACTA PHYSIOLOGICA, PHARMACOLOGICA ET
THERAPEUTICA LATINOAMERICANA
ACTA PHYSIOL PHARMACOL THER LATINOAM
41,1991--
ASOCIACION LATINOAMERICANA DE CIENCIAS
FISIOLOGICAS
BUENOS AIRES ARGENTINA
CONTINUES: ACTA PHYSIOLOGICA ET
PHARMACOLOGICA LATINOAMERICANA. ORGANO DE
LA ASOCIACION LATINOAMERICANA DE CIENCIAS
FISIOLOGICAS Y DE LA ASOCIACION
LATINOAMERICANA DE FARMACOLOGIA.
INDEXING BEGAN WITH V41N1,1991.
IN PROCESS
SR0072747 JC: BAI</p> | <p>IM FUNCTIONAL AND DEVELOPMENTAL MORPHOLOGY
FUNCT DEV MORPHOL
1N1,1991--
ACADEMIA
PRAGUE CZECHOSLOVAKIA
CONTINUES: FOLIA MORPHOLOGICA.
INDEXING BEGAN WITH V1N1,1991.
IN PROCESS 0862-8416
SR0072643 JC: BAH</p> |
| <p>IM CELL BIOLOGY REVIEWS
CELL BIOL REV
25,1991--
UNIVERSITY OF THE BASQUE COUNTRY
LEIOA VIZCAYA SPAIN
CONTINUES: REVISIONES SOBRE BIOLOGIA
CELULAR.
INDEXING BEGAN WITH V25N1,1991.
W1 CE128HE 0213-7119
SR0072606 JC: A97</p> | <p>HLI JOURNAL / ASSOCIATION FOR HEALTHCARE
PHILANTHROPY
J ASSOC HEALTHC PHILANTHR
SPRING 1991--
ASSOCIATION FOR HEALTHCARE PHILANTHROPY
FALLS CHURCH VA UNITED STATES
CONTINUES: JOURNAL / NATIONAL ASSOCIATION
FOR HOSPITAL DEVELOPMENT.
INDEXING BEGAN WITH SPRING 1991.
IN PROCESS
SR0072596 JC: A98</p> |

IM JOURNAL OF DIABETES AND ITS COMPLICATIONS
 J DIABETES COMPLICATIONS
 JAN-MAR 1992--
 ELSEVIER SCIENCE
 NEW YORK NY UNITED STATES
 CONTINUES: JOURNAL OF DIABETIC
 COMPLICATIONS.
 INDEXING BEGAN WITH 1992.
 ON ORDER 1056-8727
 SR0072568 JC: A9V

IM MICROSCOPY RESEARCH AND TECHNIQUE
 MICROSC RES TECH
 20,1992--
 WILEY-LISS
 NEW YORK NY UNITED STATES
 CONTINUES: JOURNAL OF ELECTRON MICROSCOPY
 TECHNIQUE.
 INDEXING BEGAN WITH V20N1, JAN 1992.
 ON ORDER 1059-910X
 SR0072571 JC: BAG

IM LANGENBECKS ARCHIV FUR CHIRURGIE.
 SUPPLEMENT. KONGRESSBAND
 LANGENBECKS ARCH CHIR SUPPL KONGRESSBD
 1991--
 SPRINGER-VERLAG
 BERLIN GERMANY
 CONTINUES: LANGENBECKS ARCHIV FUR
 CHIRURGIE. SUPPLEMENT II. KONGRESSBERICHT.
 INDEXING BEGAN WITH 1991.
 IN PROCESS
 SR0072675 JC: BAD

IDL NIHON RINSHO SHISHUBYO DANWAKAI KAISHI
 JOURNAL OF THE JAPANESE SOCIETY OF
 PERIODONTISTS
 NIHON RINSHO SHISHUBYO DANWAKAI KAISHI
 3,1985--
 NIHON RINSHO SHISHUBYO DANWAKAI
 TOKYO-TO JAPAN
 CALLED ALSO: J.J.S.P. ADDED TITLE PAGE
 TITLE: JOURNAL OF THE JAPANESE SOCIETY OF
 PERIODONTISTS. CONTINUES: RINSHO SHISHUBYO
 DANWAKAI KAISHI.
 INDEXING BEGAN WITH V3,1985.
 W1 NI426WN
 SR0072575 JC: A90

TITLES NO LONGER INDEXED AS OF NOVEMBER - DECEMBER 1991

IM AFRICAN JOURNAL OF MEDICINE AND MEDICAL
 SCIENCES
 AFR J MED MED SCI
 5N1, MAR 1976-20N4, DEC 1991
 BLACKWELL SCIENTIFIC PUBLICATIONS
 OXFORD ENGLAND
 CONTINUES AFRICAN JOURNAL OF MEDICAL
 SCIENCES.
 W1 AF524 0309-3913
 A16815000 JC: 29G

IM CESKOSLOVENSKA OFTALMOLOGIE
 CESH OFTALMOL
 1,1935-47,1991
 AVICENUM
 PRAHA CZECHOSLOVAKIA
 INSIDE COVER OF VOL. 46 NO. 6 (1990)
 MISNUMBERED VOL. 46 NO. 5 (1990).
 INDEXING FOR ONLINE FILES BEGAN WITH
 21N4, JUL 1965.
 W1 CE897P 0009-059X
 C13280000 JC: CVD

HLI ASSOCIATION AND SOCIETY MANAGER
 ASSOC SOC MANAGER
 1,1969-20N2, FEB/MAR 1988
 BRENTWOOD PUBLISHING CORPORATION
 LOS ANGELES CA UNITED STATES
 THIS TITLE IS NOT IN THE NLM COLLECTION.
 INDEXING BEGAN WITH V10N1, JAN 1978.
 AHA 0004-5292
 A70320000 JC: 9AX

IM COMPLEMENT AND INFLAMMATION
 COMPLEMENT INFLAMM
 6N1, JAN/FEB 1989-8N3/4, 1991
 KARGER
 BASEL SWITZERLAND
 CONTINUES: COMPLEMENT.
 W1 C0451V 1012-8204
 SR0064887 JC: DOQ

IM BJR. SUPPLEMENT
 BJR SUPPL
 23,1989
 BRITISH INSTITUTE OF RADIOLOGY
 LONDON ENGLAND
 CONTINUES: BRITISH JOURNAL OF RADIOLOGY.
 SUPPLEMENT. SUPPLEMENT TO: BRITISH
 JOURNAL OF RADIOLOGY. LATER ISSUES
 UNNUMBERED AND CATALOGED AS MONOGRAPHS AT
 NLM.
 N23,1989 ONLY ISSUE INDEXED. PUBLISHED AS
 A MONOGRAPH AFTER 1989.
 W1 BI996 0007-1285
 SR0068883 JC: AUQ

IM CURRENT SURGERY
 CURR SURG
 35,1978--
 J B LIPPINCOTT
 PHILADELPHIA PA UNITED STATES
 CONTINUES REVIEW OF SURGERY.
 INDEXING CEASED WITH V47N6, NOV-DEC 1990.
 ZW0 100 Q2 0149-7944
 C57380000 JC: DWJ

IM GIORNALE DI CLINICA MEDICA
 G CLIN MED
 1,1920--
 ISTITUTO DI PATOLOGIA MEDICA
 BOLOGNA ITALY
 VOL. 67 (1986) COMPLETE IN SIX ISSUES.
 BEGINNING WITH VOL. 72 NO. 1, 1991 ISSUED
 WITH: GIORNALE DI CLINICA MEDICA E BASI
 RAZIONALI DELLA TERAPIA.
 INDEXING FOR ONLINE FILES BEGAN WITH
 45N5,MAY 1964. INDEXING CEASED WITH
 V71N12,DEC 1990.
 W1 GI509 0017-0275
 G08420000 JC: FAP

HLI JOURNAL OF CONTINUING EDUCATION IN THE
 HEALTH PROFESSIONS
 J CONTIN EDUC HEALTH PROF
 8,1988--
 ALLIANCE FOR CONTINUING MEDICAL EDUCATION
 AND THE SOCIETY OF MEDICAL DIRECTORS OF
 CONTINUING MEDICAL EDUCATION
 SAN FRANCISCO CA UNITED STATES
 CONTINUES: MOBIUS. PUBLISHED BY: TAYLOR
 AND FRANCIES -1989, ALLIANCE FOR CONTINUING
 MEDICAL EDUCATION AND THE SOCIETY OF
 MEDICAL COLLEGE DIRECTORS OF CONTINUING
 MEDICAL EDUCATION 1990- .
 INDEXING BEGAN WITH V8N1,1988 AND CEASED
 WITH V10N4,1990.
 W1 J0595YW 0894-1912
 SR0060878 JC: JHP

IM MOLECULAR BIOLOGY AND MEDICINE
 MOL BIOL MED
 1N1,JUL 1983-8N2,APR? 1991
 ACADEMIC PRESS
 LONDON ENGLAND
 NOT PUBLISHED IN 1985. VOLUME 5 (1988)
 COMPLETE IN THREE ISSUES.
 INDEXING BEGAN WITH V.1 N.1,1983.
 W1 M0195P 0735-1313
 M43250000 JC: MOL

INI NASU SUTESHON JOURNAL OF NURSING
 ADMINISTRATION FOR PATIENTS
 NASU SUTESHON
 1,1971-20,1990
 NASU SUTESHON
 TOKYO JAPAN
 INDEXING BEGAN WITH V16N1 1986
 W1 NA198J 0387-351X
 N01740000 JC: NQU

IM PEDIATRICIAN
 PEDIATRICIAN
 12N1,1983/85-18,1991
 KARGER
 BASEL SWITZERLAND
 CONTINUES: PAEDIATRICIAN.
 W1 PE179T 0300-1245
 SR0051449 JC: PET

IM RADIOGRAPHY TODAY
 RADIOGR TODAY
 54N617,OCT 1988--
 COLLEGE OF RADIOGRAPHERS
 LONDON ENGLAND
 FORMED BY THE UNION OF: RADIOGRAPHY, AND
 ITS SUPPLEMENT: RADIOGRAPHY NEWS.
 INDEXING BEGAN WITH V54N617,OCT 1988 AND
 CEASED WITH V57N655,DEC 1991.
 W1 RA264BH 0954-8211
 SR0065264 JC: AFQ

ACCESS PROCEDURES FOR MEDLARS ELHILL (MEDLINE) SYSTEM
(See footnotes next page)

KEY:
→ = Your response
<CR> = Carriage Return or Enter

COMPUERVE
Full Duplex 1

Dial local number
Connect phone & terminal

→ <CR>

05DCF

Host Name:

→ nlm <CR> 2

Connected to 02NLM

PLEASE ENTER LOGIN

→ login <CR>

PLEASE ENTER USERID/
PASSWORD
\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$

→ xyz01/pluto <CR>
(Type your Code & Password.)

INFONET
No longer available

TELENET
Full Duplex 1

Dial local number
Connect phone & terminal

→ <CR> <CR> 3

TELENET

202 19B

TERMINAL=

→ dl <CR> 2

(Type your correct terminal
identifier; see footnote.)

@

→ c nlm <CR>

NLM CONNECTED

PLEASE ENTER LOGIN

→ login <CR>

PLEASE ENTER USERID/
PASSWORD
\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$

→ xyz01/pluto <CR>
(Type your Code & Password.)

TYMNET
Full Duplex 1

Dial local number
Connect phone & terminal

xx:@<xxx@:xx:@xxx@<
xxx:@<xx 3

→ a 2

(Type your correct terminal
identifier; see footnote.)

-2544-021-
please log in:

→ nlmmenu <CR>

WELCOME TO NATIONAL
LIBRARY OF MEDICINE'S
COMPUTER SERVICES
NLM Main Menu
(menu of choices will follow)
Please select a service
number >>

→ 1 <CR>

+ NLN: call connected

PLEASE ENTER LOGIN

→ login <CR>

PLEASE ENTER USERID/
PASSWORD
\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$

→ xyz01/pluto <CR>
(Type your Code & Password.)

DIRECT DIAL
Half Duplex Only

This option is for the
Washington, D.C. area only.

Dial:
480-3150 300/1200 bps
480-4360 2400 bps

Connect phone & terminal

→ <CR>

PLEASE ENTER LOGIN

→ login <CR>

PLEASE ENTER USERID/
PASSWORD
\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$

→ xyz01/pluto <CR>
(Type your Code & Password.)

FOOTNOTES FOR ACCESSING MEDLARS ELHILL (MEDLINE) SYSTEM

1. Half Duplex Instructions:

COMPUERVE: at the Host Name: prompt, type 'NLM <CR> Proceed with the above instructions.

INFONET: at the COMMUNICATION ESTABLISHED prompt, type Ctrl P. At the * prompt, type set 2:0 <CR> Proceed with the above instructions.

TELENET: at the @ prompt, type half <CR>. Proceed with the above instructions.

TYMNET: at the please log in: prompt, type Ctrl H followed by nlmmenu <CR>. Proceed with the above instructions.

(a Ctrl key sequence means that you depress and hold down the Ctrl key, press the letter key and then release both keys)

2. Use the appropriate terminal identifier for your equipment.

COMPUERVE: Most computer users do not need to specify a terminal ID. Thermal printer users, however, may want to type nlm*n, where "n" identifies a thermal printer.

INFONET: The c is a terminal recognition character.

TELENET: Any computer and most terminals use d1 <CR>.

TYMNET: Any computer and most terminals use the letter a without a <CR>.

3.

TELENET, 2400 bps: type @ <CR> in place of <CR> <CR>.

TYMNET, 2400 bps: the first response received from the network will be a blank screen instead of the nonsense characters. Just proceed with the instructions.

ACCESS PROCEDURES FOR MEDLARS PDQ SYSTEM
(See footnotes next page)

KEY: → = Your response
<CR> = Carriage Return or Enter

COMPUSERVE
Full Duplex 1

Dial local number
Connect phone & terminal

→ <CR>

INFONET
No longer available

TELENET
Full Duplex 1

Dial local number
Connect phone & terminal

→ <CR> <CR> 3

TELENET
202 19B
TERMINAL=

→ d1 <CR> 2

05DCF

Host Name:

→ nlm <CR> 2

(Type your correct terminal
identifier; see footnote.)

@

→ c nlm <CR>

NLM CONNECTED

Connected to 02NLM

PLEASE ENTER LOGIN

→ logon <CR>

IKJ56700A ENTER USERID

xyz01/PDQpassword
(Enter your Code & PDQ
Password.)

TYMNET
Full Duplex 1

Dial local number
Connect phone & terminal

xx:@<xxx@:xx:@xxx@<
xxx:@<xx 3

→ a 2

(Type your correct terminal
identifier; see footnote.)

-2544-021-

PLEASE LOG IN:

→ nlm menu <CR>

WELCOME TO NATIONAL
LIBRARY OF MEDICINE'S
COMPUTER SERVICES

NLM Main Menu
(Menu choices will follow)
Please select a service
number >>

→ 3 <CR>

+

NLM: call connected

IKJ56700A ENTER USERID

xyz01/PDQpassword
(Enter your Code & PDQ
Password.)

DIRECT DIAL
Half Duplex Only

This option is for the
Washington, D.C. area only.
Dial:

480-3150 300/1200 bps
480-4360 2400 bps

Connect phone & terminal

→ <CR>

PLEASE ENTER LOGIN

→ logon <CR>

IKJ56700A ENTER USERID

xyz01/PDQpassword
(Enter your Code & PDQ
Password.)

FOOTNOTES FOR ACCESSING MEDLARS PDQ SYSTEM

1. Half Duplex Instructions:

COMPUSERVE: at the Host Name: prompt, type 'NLM <CR>' Proceed with the above instructions.

TELENET: at the @ prompt, type **half** <CR>. Proceed with the above instructions.

INFONET: at the COMMUNICATION ESTABLISHED prompt, type **Ctrl P**. At the * prompt, type **set 2:0 <CR>** Proceed with the above instructions.

TYMNET: at the please log in: prompt, type **Ctrl H** followed by **nimmenu** <CR>. Proceed with the above instructions.

(a Ctrl key sequence means that you depress and hold down the Ctrl key, press the letter key and then release both keys)

2. Use the appropriate terminal identifier for your equipment.

COMPUSERVE: Most computer users do not need to specify a terminal ID. Thermal printer users, however, may want to type **n1m*n**, where "n" identifies a thermal printer.

INFONET: The c is a terminal recognition character.

TELENET: Any computer and most terminals use **d1** <CR>.

TYMNET: Any computer and most terminals use the letter **a** without a <CR>.

3.

TELENET, 2400 bps: type **@** <CR> in place of <CR> <CR>.

TYMNET, 2400 bps: the first response received from the network will be a blank screen instead of the nonsense characters. Just proceed with the instructions.

ACCESS PROCEDURES FOR MEDLARS TOXNET SYSTEM

(See footnotes next page)

KEY: → = Your response
 <CR> = Carriage Return or Enter

COMPUSERVE
*Full Duplex*¹

Dial local number
 Connect phone & terminal

→ <CR>

05DCF
 Host Name:

→ TOXNET <CR>

Connected to 02TOXNET

WELCOME TO THE
 NATIONAL LIBRARY OF
 MEDICINE'S TOXICOLOGY
 DATA NETWORK (TOXNET)
 PLEASE ENTER USERID/
 PASSWORD
 \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$

→ xyz01/pluto <CR>
 (Type your Code & Password.)

INFONET
No longer available

TELENET
*Full Duplex*¹

Dial local number
 Connect phone & terminal

→ <CR> <CR> 3

TELENET
 202 19B
 TERMINAL=

→ d1 <CR> 2
 (Type your correct terminal
 identifier; see footnote.)

@

→ c toxnet <CR>

TOXNET CONNECTED
 CONNECTION FROM
 31102020011103

WELCOME TO THE
 NATIONAL LIBRARY OF
 MEDICINE'S TOXICOLOGY
 DATA NETWORK (TOXNET).
 PLEASE ENTER USERID/
 PASSWORD
 \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$

→ xyz01/pluto <CR>
 (Type your Code & Password.)

TYMNET
*Full Duplex*¹

Dial local number
 Connect phone & terminal

xx:@<xxx@:xx:@xxx@<
 xxx:@<xx 3

→ a 2
 (Type your correct terminal
 identifier; see footnote.)

-2544-021-
 please log in:

→ toxnet <CR>

WELCOME TO THE
 NATIONAL LIBRARY OF
 MEDICINE'S TOXICOLOGY
 DATA NETWORK (TOXNET)
 PLEASE ENTER USERID/
 PASSWORD
 \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$

→ xyz01/pluto <CR>
 (Type your Code & Password.)

DIRECT DIAL
Half Duplex Only

This option is for the
 Washington, D.C. area only.
 Dial: 946-1184

Connect phone & terminal

→ <CR> <CR>

WELCOME TO THE
 NATIONAL LIBRARY OF
 MEDICINE'S TOXICOLOGY
 DATA NETWORK (TOXNET)
 PLEASE ENTER USERID/
 PASSWORD
 \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$

→ xyz01/pluto <CR>
 (Type your Code & Password.)

FOOTNOTES FOR ACCESSING MEDLARS TOXNET SYSTEM

1. Half Duplex Instructions:

COMPUSEVE: at the Host Name: prompt, type 'TOXNET <CR>. Proceed with the above instructions.

TELENET: at the @ prompt, type **half** <CR>. Proceed with the above instructions.

TYMNET: at the please log in: prompt, type **Ctrl H** followed by **toxnet** <CR>. Proceed with the above instructions.

(a Ctrl key sequence means that you depress and hold down the Ctrl key, press the letter key and then release both keys)

2. Use the appropriate terminal identifier for your equipment.

INFONET: The **c** is a terminal recognition character.

TELENET: Any computer and most terminals use **d1** <CR>.

TYMNET: Any computer and most terminals use the letter **a** without a <CR>.

3. **TELENET, 2400 bps:** type **@** <CR> in place of <CR> <CR>.

TYMNET, 2400 bps: the first response received from the network will be a blank screen instead of the nonsense characters. Just proceed with the instructions.

Reminder - InfoNet Discontinued

Access to the NLM computer via the InfoNet network is being discontinued effective September 30, 1991. All users including Grateful Med searchers may no longer use InfoNet to access MEDLARS after this date. Instead, use CompuServe, TYMNET, or Telenet.

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1992 WEEKLY UPDATE SCHEDULE FOR MEDLINE

<u>Entry Month</u>	<u>Updated MEDLINE Available</u>	<u>Date of Entry (DA) Ranges</u>
9201 (EM)	Dec 9	911025-911121*
9202 (EM)	Dec 28	911122-911226
9203 (EM)		
Part 1	Jan 4	911227-920102
Part 2	Jan 11	920103-920109
Part 3	Jan 18	920110-920116
Part 4	Jan 25	920117-920123
9204 (EM)		
Part 1	Feb 1	920124-920130
Part 2	Feb 8	920131-920206
Part 3	Feb 15	920207-920213
Part 4	Feb 22	920214-920220
Part 5	Feb 29	920221-920227
9205 (EM)		
Part 1	Mar 7	920228-920305
Part 2	Mar 14	920306-920312
Part 3	Mar 21	920313-920319
Part 4	Mar 28	920320-920326
9206 (EM)		
Part 1	Apr 4	920327-920402
Part 2	Apr 11	920403-920409
Part 3	Apr 18	920410-920416
Part 4	Apr 25	920417-920423
9207 (EM)		
Part 1	May 2	920424-920430
Part 2	May 9	920501-920507
Part 3	May 16	920508-920514
Part 4	May 23	920515-920521
Part 5	May 30	920522-920528
9208 (EM)		
Part 1	Jun 6	920529-920604
Part 2	Jun 13	920605-920611
Part 3	Jun 20	920612-920618
Part 4	Jun 27	920619-920625

<u>Entry Month</u>	<u>Updated MEDLINE Available</u>	<u>Date of Entry (DA) Ranges</u>
9209 (EM)		
Part 1	Jul 4	920626-920702
Part 2	Jul 11	920706-920709*
Part 3	Jul 18	920710-920716
Part 4	Jul 25	920717-920723
9210 (EM)		
Part 1	Aug 1	920724-920730
Part 2	Aug 8	920731-920806
Part 3	Aug 15	920807-920813
Part 4	Aug 22	920814-920820
Part 5	Aug 29	920821-920827
9211 (EM)		
Part 1	Sep 5	920828-920903
Part 2	Sep 12	920904-920910
Part 3	Sep 19	920911-920917
Part 4	Sep 26	920918-920924
9212 (EM)		
Part 1	Oct 3	920925-921001
Part 2	Oct 10	921002-921008
Part 3	Oct 17	921009-921015
Part 4	Oct 24	921016-921022
Part 5	Oct 31	921023-921029
9301 (EM)	Dec 7	921030-921125*

*Modified because of holiday

Search hint: If a patron wants weekly updates to a search, use the pattern shown below, where SS 1 represents your completed search strategy.

On August 4 - SS 1: ... AND 9210 (EM)

On August 11 - SS 1: ... AND 9210 (EM) AND FROM 920731 TO 920806 (DA)

On August 18 - SS 1: ... AND 9210 (EM) AND FROM 920807 TO 920813 (DA)

On August 25 - SS 1: ... AND 9210 (EM) AND FROM 920814 TO 920820 (DA)

On Sept. 1 - SS 1: ... AND 9210 (EM) AND FROM 920821 TO 920827 (DA)

1992 MONTHLY UPDATE SCHEDULE FOR SDILINE

<u>Entry Month</u>	<u>Available</u>
9201	Dec 9
9202	Dec 28
9203	Jan 25
9204	Feb 29
9205	Mar 28
9206	Apr 25
9207	May 30
9208	Jun 27
9209	Jul 25
9210	Aug 29
9211	Sep 26
9212	Oct 31

NLM ONLINE SERVICES TRAINING
1992 SCHEDULE

APPENDIX C

FUNDAMENTALS OF MEDLARS SEARCHING (3-day class):

Legend:

- + - indicates module is taught by Eastern Online Training Center
 - # - indicates module is taught by Midlands Online Training Center
 - * - indicates module is taught by Western Online Training Center
- No indicator means class is taught by NLM instructors.

JAN 13-15	BETHESDA, MD	JUL 13-15	BETHESDA, MD
JAN 13-15	CHARLESTON, SC (+)	JUL 14-16	CHICAGO, IL (#)
		JUL 20-22	HANOVER, NH (+)
FEB 10-12	NEW YORK, NY (+)		
FEB 24-26	BETHESDA, MD	AUG 4- 6	KANSAS CITY, MO (#)
FEB 24-26	HOUSTON, TX (#)	AUG 17-19	BETHESDA, MD
		AUG 17-19	NEW YORK, NY (+)
MAR 2- 4	NEW YORK, NY (+)	AUG 24-26	SEATTLE, WA (*)
MAR 9-11	SEATTLE, WA (*)		
MAR 16-18	BETHESDA, MD	SEP 14-16	BETHESDA, MD
		SEP 14-16	NEW YORK, NY (+)
APR 6- 8	BETHESDA, MD	SEP 21-23	LOS ANGELES, CA (*)
APR 6- 8	BOSTON, MA (+)		
APR 6- 8	LOS ANGELES, CA (*)	OCT 19-21	BETHESDA, MD
APR 6- 8	OMAHA, NE (#)		
NO MAY FUNDAMENTALS CLASSES		NOV 16-18	BETHESDA, MD
		NOV 16-18	FARMINGTON, CT (+)
		NOV 16-18	HOUSTON, TX (#)
JUN 8-10	BETHESDA, MD	NOV 16-18	LOS ANGELES, CA (*)
JUN 8-10	HOUSTON, TX (#)		
JUN 15-17	LOS ANGELES, CA (*)	DEC 1- 3	CHICAGO, IL (#)
JUN 22-24	GAINESVILLE, FL (+)	DEC 14-16	CHAPEL HILL, NC (+)

NOTE: ALL FUNDAMENTALS CLASSES ARE FREE.

REVISED 12/91

SPECIALIZED MODULES:

Legend: A.M. - indicates module is taught in the morning
 P.M. - indicates module is taught in the afternoon
 + - indicates module is taught by Eastern Online Training Center
 (one-day module = \$85; half-day module = \$45)
 # - indicates module is taught by Midlands Online Training Center
 (one-day module = \$75; half-day module = \$45)
 * - indicates module is taught by Western Online Training Center
 (one-day module = \$65; half-day module = \$45)
 No indicator means class is taught by NLM instructors.

DO NOT SEND PAYMENT WITH REGISTRATION; THE FEE WILL BE PAID UPON CONFIRMATION OF CLASS. INSTRUCTIONS ON PAYMENT WILL BE SENT TO YOU.

JAN 16	ChemID/CHEMLINE/TOXLINE/TOXLIT	BETHESDA, MD	
JAN 16	MEDLINE/MeSH/HEALTH	CHARLESTON, SC	(+)
JAN 17	TOXNET	BETHESDA, MD	
JAN 17 (A.M.)	CANCERLIT/PDQ	CHARLESTON, SC	(+)
JAN 17 (P.M.)	POPLINE/BIOETHICS/HISTLINE	CHARLESTON, SC	(+)
JAN 27	MEDLINE/MeSH/HEALTH	BETHESDA, MD	
JAN 28 (A.M.)	CANCERLIT/PDQ	BETHESDA, MD	
JAN 28 (P.M.)	POPLINE/BIOETHICS/HISTLINE	BETHESDA, MD	
JAN 29	TECHNICAL SERVICES DATABASES	BETHESDA, MD	
FEB 13	TECHNICAL SERVICES DATABASES	NEW YORK, NY	(+)
FEB 14 (A.M.)	CANCERLIT/PDQ	NEW YORK, NY	(+)
FEB 27	ChemID/CHEMLINE/TOXLINE/TOXLIT	BETHESDA, MD	
FEB 27	ChemID/CHEMLINE/TOXLINE/TOXLIT	HOUSTON, TX	(#)
FEB 28	TOXNET	BETHESDA, MD	
FEB 28	TOXNET	HOUSTON, TX	(#)
MAR 5 (A.M.)	CANCERLIT/PDQ	NEW YORK, NY	(+)
MAR 5 (P.M.)	POPLINE/BIOETHICS/HISTLINE	NEW YORK, NY	(+)
MAR 6	TOXNET	NEW YORK, NY	(+)
MAR 12	MEDLINE/MeSH/HEALTH	SEATTLE, WA	(*)
MAR 13 (A.M.)	CANCERLIT/PDQ	SEATTLE, WA	(*)
MAR 17	MEDLINE/MeSH/HEALTH	PHOENIX, AZ	(*)
MAR 18	TOXNET	PHOENIX, AZ	(*)
MAR 19	ChemID/CHEMLINE/TOXLINE/TOXLIT	BETHESDA, MD	
MAR 20	TOXNET	BETHESDA, MD	
MAR 23 (P.M.)	CANCERLIT/PDQ	ST. LOUIS, MO	(#)
MAR 24	ChemID/CHEMLINE/TOXLINE/TOXLIT	ST. LOUIS, MO	(#)
MAR 25	TOXNET	ST. LOUIS, MO	(#)
APR 9	ChemID/CHEMLINE/TOXLINE/TOXLIT	BETHESDA, MD	
APR 9	ChemID/CHEMLINE/TOXLINE/TOXLIT	BOSTON, MA	(+)
APR 9	MEDLINE/MeSH/HEALTH	LOS ANGELES, CA	(*)
APR 9	MEDLINE/MeSH/HEALTH	OMAHA, NE	(#)
APR 10	TOXNET	BETHESDA, MD	
APR 10	TOXNET	BOSTON, MA	(+)
APR 10	TOXNET	LOS ANGELES, CA	(*)
APR 10 (A.M.)	CANCERLIT/PDQ	OMAHA, NE	(#)

APR 27	MEDLINE/MeSH/HEALTH	BETHESDA, MD	
APR 28 (A.M.)	CANCERLIT/PDQ	BETHESDA, MD	
APR 28 (P.M.)	POPLINE/BIOETHICS/HISTLINE	BETHESDA, MD	
APR 28	MEDLINE/MeSH/HEALTH	CHICAGO, IL	(#)
APR 29	TECHNICAL SERVICES DATABASES	BETHESDA, MD	
APR 29	TECHNICAL SERVICES DATABASES	CHICAGO, IL	(#)
APR 30 (A.M.)	AIDSLINE/AIDS DRUGS/AIDSTRIALS	BETHESDA, MD	
APR 30	ChemID/CHEMLINE/TOXLINE/TOXLIT	CHICAGO, IL	(#)
MAY 1	TOXNET	CHICAGO, IL	(#)
MAY 13	MEDLINE/MeSH/HEALTH	ATLANTA, GA	(+)
MAY 14	ChemID/CHEMLINE/TOXLINE/TOXLIT	ATLANTA, GA	(+)
MAY 15	TOXNET	ATLANTA, GA	(+)
JUN 11	ChemID/CHEMLINE/TOXLINE/TOXLIT	BETHESDA, MD	
JUN 11 (A.M.)	CANCERLIT/PDQ	HOUSTON, TX	(#)
JUN 11 (P.M.)	POPLINE/BIOETHICS/HISTLINE	HOUSTON, TX	(#)
JUN 12	TOXNET	BETHESDA, MD	
JUN 12 (A.M.)	AIDSLINE/AIDS DRUGS/AIDSTRIALS	HOUSTON, TX	(#)
JUN 18	ChemID/CHEMLINE/TOXLINE/TOXLIT	LOS ANGELES, CA	(*)
JUN 19 (A.M.)	CANCERLIT/PDQ	LOS ANGELES, CA	(*)
JUN 25	TECHNICAL SERVICES DATABASES	GAINESVILLE, FL	(+)
JUN 26 (A.M.)	POPLINE/BIOETHICS/HISTLINE	GAINESVILLE, FL	(+)
JUL 14	MEDLINE/MeSH/HEALTH	PORTLAND, OR	(*)
JUL 15	TECHNICAL SERVICES DATABASES	PORTLAND, OR	(*)
JUL 16	ChemID/CHEMLINE/TOXLINE/TOXLIT	BETHESDA, MD	
JUL 17	TOXNET	BETHESDA, MD	
JUL 17 (A.M.)	AIDSLINE/AIDS DRUGS/AIDSTRIALS	CHICAGO, IL	(#)
JUL 17 (P.M.)	CANCERLIT/PDQ	CHICAGO, IL	(#)
JUL 23	MEDLINE/MeSH/HEALTH	HANOVER, NH	(+)
JUL 24	TECHNICAL SERVICES DATABASES	HANOVER, NH	(+)
JUL 27	MEDLINE/MeSH/HEALTH	BETHESDA, MD	
JUL 28 (A.M.)	CANCERLIT/PDQ	BETHESDA, MD	
JUL 28 (P.M.)	POPLINE/BIOETHICS/HISTLINE	BETHESDA, MD	
JUL 29 (A.M.)	AIDSLINE/AIDS DRUGS/AIDSTRIALS	BETHESDA, MD	
JUL 29 (P.M.)	BIOTECHNOLOGY MODULE	BETHESDA, MD	
JUL 30	TECHNICAL SERVICES DATABASES	BETHESDA, MD	
AUG 7 (A.M.)	BIOTECHNOLOGY MODULE	KANSAS CITY, MO	(#)
AUG 7 (P.M.)	AIDSLINE/AIDS DRUGS/AIDSTRIALS	KANSAS CITY, MO	(#)
AUG 20	ChemID/CHEMLINE/TOXLINE/TOXLIT	BETHESDA, MD	
AUG 20	TOXNET	NEW YORK, NY	(+)
AUG 21	TOXNET	BETHESDA, MD	
AUG 21 (A.M.)	BIOTECHNOLOGY MODULE	NEW YORK, NY	(+)
AUG 27	ChemID/CHEMLINE/TOXLINE/TOXLIT	SEATTLE, WA	(*)
AUG 28 (A.M.)	AIDSLINE/AIDS DRUGS/AIDSTRIALS	SEATTLE, WA	(*)
AUG 28 (P.M.)	BIOTECHNOLOGY MODULE	SEATTLE, WA	(*)
SEP 17 (A.M.)	CANCERLIT/PDQ	BETHESDA, MD	
SEP 17 (P.M.)	AIDSLINE/AIDS DRUGS/AIDSTRIALS	BETHESDA, MD	
SEP 17	MEDLINE/MeSH/HEALTH	NEW YORK, NY	(+)
SEP 24	TECHNICAL SERVICES DATABASES	LOS ANGELES, CA	(*)
SEP 24 (A.M.)	AIDSLINE/AIDS DRUGS/AIDSTRIALS	LOS ANGELES, CA	(*)

OCT 22	ChemID/CHEMLINE/TOXLINE/TOXLIT	BETHESDA, MD	
OCT 23	TOXNET	BETHESDA, MD	
NOV 19	ChemID/CHEMLINE/TOXLINE/TOXLIT	BETHESDA, MD	
NOV 19	MEDLINE/MeSH/HEALTH	FARMINGTON, CT	(+)
NOV 19 (A.M.)	AIDSLINE/AIDSDRUGS/AIDSTRIALS	HOUSTON, TX	(#)
NOV 19 (P.M.)	BIOTECHNOLOGY MODULE	HOUSTON, TX	(#)
NOV 19	TOXNET	LOS ANGELES, CA	(*)
NOV 20	TOXNET	BETHESDA, MD	
NOV 20	TECHNICAL SERVICES DATABASES	FARMINGTON, CT	(+)
NOV 20 (A.M.)	POPLINE/BIOETHICS/HISTLINE	LOS ANGELES, CA	(*)
DEC 1	MEDLINE/MeSH/HEALTH	BETHESDA, MD	
DEC 2 (A.M.)	CANCERLIT/PDQ	BETHESDA, MD	
DEC 2 (P.M.)	POPLINE/BIOETHICS/HISTLINE	BETHESDA, MD	
DEC 3 (A.M.)	AIDSLINE/AIDSDRUGS/AIDSTRIALS	BETHESDA, MD	
DEC 3 (P.M.)	BIOTECHNOLOGY MODULE	BETHESDA, MD	
DEC 4	TECHNICAL SERVICES MODULE	BETHESDA, MD	
DEC 4 (A.M.)	POPLINE/BIOETHICS/HISTLINE	CHICAGO, IL	(#)
DEC 9 (A.M.)	AIDSLINE/AIDSDRUGS/AIDSTRIALS	SAN DIEGO, CA	(*)
DEC 17	MEDLINE/MeSH/HEALTH	CHAPEL HILL, NC	(+)
DEC 18 (A.M.)	AIDSLINE/AIDSDRUGS/AIDSTRIALS	CHAPEL HILL, NC	(+)
DEC 18 (P.M.)	BIOTECHNOLOGY MODULE	CHAPEL HILL, NC	(+)

REQUEST FOR NLM ONLINE TRAINING

The Fundamentals class and the Specialized Modules concentrate on command language searching and thus are not recommended for GRATEFUL MED searchers.

DATE: _____

TRAINEE NAME: _____ PHONE: (____) _____ x _____

ORGANIZATION: _____

ADDRESS: _____

CITY, STATE, ZIP: _____

User ID code: _____ OR I am applying for a User ID code / /

1. FUNDAMENTALS OF MEDLARS SEARCHING (3-DAYS)

DATES/SITES REQUESTED: _____
1st Choice 2nd Choice

2. SPECIALIZED MODULES: (Requires familiarity with MEDLARS.)

Please fill in Dates/Sites requesting:

MEDLINE/MeSH/HEALTH (1-DAY) _____
1st Choice 2nd Choice

CHEMID/CHEMLINE/ TOXLINE/TOXLIT (1-DAY) _____
1st Choice 2nd Choice

TOXNET (1-DAY) _____
1st Choice 2nd Choice

CANCERLIT/PDQ (HALF-DAY) _____
1st Choice 2nd Choice

POPLINE/BIOETHICS/ HISTLINE (HALF-DAY) _____
1st Choice 2nd Choice

TECHNICAL SERVICES DATABASES (ONE-DAY) _____
1st Choice 2nd Choice

AIDSLINE/AIDSDRUGS/ AIDSTRIALS (HALF-DAY) _____
1st Choice 2nd Choice

BIOTECHNOLOGY MODULE (HALF-DAY) _____
1st Choice 2nd Choice

MAILING/FAXING INSTRUCTIONS -- SEE REVERSE SIDE OF FORM

REQUEST FOR ONLINE TRAINING CODE(S)

FOR USE IN PRACTICING MATERIAL COVERED IN "BASICS" OR
GRATEFUL MED TRAINING

CHECK ONE:

I am teaching a course on
searching using NLM's
GRATEFUL MED and need
codes for students.I am either engaging in self
study or teaching a course
using the manual, "The Basics
of Searching MEDLINE".

NAME OF REQUESTING INDIVIDUAL OR TRAINER _____

ORGANIZATION (IF APPLICABLE) _____

ADDRESS _____

PHONE NUMBER () _____

One code per terminal/microcomputer. No more than ten codes for one course without written request for special consideration. Each code is limited to no more than six hours over a time period not to exceed three weeks total time.

NUMBER OF CODES _____

DATE(S) CODE(S) NEEDED _____

LOCATION OF TRAINING (IF A COURSE) _____

I agree to send the National Library of Medicine a profile sheet for myself or for persons trained after the use of the training code(s).

SIGNATURE _____

DATE _____

Return this form to the MEDLARS® Management Section:

MEDLARS® Management Section
National Library of Medicine
Bethesda, MD 20894
Fax (301)496-0822

Allow two weeks for return of code(s). For special rush situations contact the MMS Service Desk, Monday - Friday, 8:30am - 5:00pm EST, 1(800)638-8480.

NLM USE ONLY

CODE(S) ASSIGNED _____

DATE(S) _____

PARTICIPANT'S PROFILE / TRAINING CODE USE

1. Name: _____

2. Profession:

- Physician Researcher Medical Student
 Dentist Nurse Librarian/Information Specialist
 Other (please specify) _____

3. If a physician, please check your area(s) of specialization:

- | | | |
|---------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> ALLERGY AND IMMUNOLOGY | <input type="checkbox"/> NUCLEAR MEDICINE | <input type="checkbox"/> PLASTIC SURGERY |
| <input type="checkbox"/> ANESTHESIOLOGY | <input type="checkbox"/> OBSTETRICS & GYNECOLOGY | <input type="checkbox"/> PREVENTIVE MEDICINE |
| <input type="checkbox"/> COLON AND RECTAL SURGERY | <input type="checkbox"/> OPHTHALMOLOGY | <input type="checkbox"/> PSYCHIATRY AND NEUROLOGY |
| <input type="checkbox"/> DERMATOLOGY | <input type="checkbox"/> ORTHOPAEDIC SURGERY | <input type="checkbox"/> RADIOLOGY |
| <input type="checkbox"/> EMERGENCY MEDICINE | <input type="checkbox"/> OTOLARYNGOLOGY | <input type="checkbox"/> SURGERY |
| <input type="checkbox"/> FAMILY PRACTICE | <input type="checkbox"/> PATHOLOGY | <input type="checkbox"/> THORACIC SURGERY |
| <input type="checkbox"/> INTERNAL MEDICINE | <input type="checkbox"/> PEDIATRICS | <input type="checkbox"/> UROLOGY |
| <input type="checkbox"/> NEUROLOGICAL SURGERY | <input type="checkbox"/> PHYSICAL MED. AND REHABIL. | <input type="checkbox"/> OTHER _____ |

If you use, or plan to use Grateful Med, please answer questions 4 and 5.

4. What type of computer system(s) will you be using for GRATEFUL MED searching?

- | | | |
|------------------------------------------------|---------------------------------------------|--------------------------------------|
| <input type="checkbox"/> MS DOS | Telecommunications via: | <input type="checkbox"/> Local Modem |
| <input type="checkbox"/> Macintosh | <input type="checkbox"/> Local Area Network | <input type="checkbox"/> Internet |
| Size of Memory (RAM), if known:
_____ bytes | Other: _____ | |

5. Do you regularly use a system other than MS DOS or Macintosh on which you'd like to use GRATEFUL MED? If so, please indicate system type(s):

- MS Windows UNIX/XENIX Other: _____

Please indicate your other uses of the above system(s), and other software used:

- Software package(s):
- Administrative record keeping _____
 Patient records _____
 Other: _____

Thank you for providing this information. We hope you will enjoy your practice time on the MEDLARS databases. Please return this form to your instructor for prompt return to: MEDLARS Management Section, National Library of Medicine, Bethesda, MD 20894.

- GRATEFUL MED training course Date of training: ___/___/___
 The Basics of Searching MEDLINE (self-study or attendance at course) City/site of training: _____

REQUEST FOR MASTER ACCOUNT

Return Form To:

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

Billing Address:

Personal Name: _____

Institution: _____

Address: _____

City, State, Zip: _____

Telephone: _____

If you would like your user codes to be billed with one invoice, under a master account, please indicate the main User ID code and the codes that will be "mapped" to it.

Main User ID Code: _____

Mapped ID Codes:	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____

If, in the future, you would like other ID codes to be added to your master account, please indicate the main User ID code on each Online Services Application Form.

Signature _____

Printed Name _____

Date _____

APPENDIX G

FAMILIES OF 1992 SUBHEADING PRE-EXPLOSIONS

<p>analysis blood cerebrospinal fluid isolation & purification urine</p> <p>anatomy & histology blood supply cytology pathology ultrastructure embryology abnormalities innervation</p> <p>chemistry analogs & derivatives antagonists & inhibitors chemical synthesis</p> <p>diagnosis pathology radiography radionuclide imaging ultrasonography</p> <p>etiology chemically induced complications secondary congenital embryology</p>	<p>etiology (cont'd) genetics immunology microbiology parasitology transmission</p> <p>organization & admin economics legislation & jurisprudence manpower standards supply & distribution trends utilization</p> <p>pharmacology administration & dosage adverse effects poisoning toxicity contraindications diagnostic use pharmacokinetics</p> <p>physiology genetics growth & development immunology metabolism biosynthesis</p>	<p>physiology (cont'd) metabolism (cont'd) blood cerebrospinal fluid deficiency enzymology pharmacokinetics urine physiopathology secretion</p> <p>statistics & numer data epidemiology ethnology mortality</p> <p>therapeutic use administration & dosage adverse effects contraindications poisoning</p> <p>therapy diet therapy drug therapy nursing prevention & control radiotherapy rehabilitation surgery transplantation</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

ALPHABETIC LIST OF 1992 SUBHEADING PRE-EXPLOSIONS

<u>Full Name</u>	<u>Short Form</u>	<u>Full Name</u>	<u>Short Form</u>
adverse effects&	AE&	etiology&	ET&
analysis&	AN&	metabolism&	ME&
anatomy & histology&	AH&	organization & admin&	OG&
chemistry&	CH&	pharmacology&	PD&
complications&	CO&	physiology&	PH&
cytology&	CY&	statistics & numer data&	SN&
diagnosis&	DI&	surgery&	SU&
embryology&	EM&	therapeutic use&	TU&
epidemiology&	EP&	therapy&	TH&

Final ampersand and the qualifier (PX) are needed to search; either the full name or short form can be used. The * may not be used in front of a subheading pre-explosion.

Form A

OMB 0925-0223 Exp: 6/30/93

NATIONAL LIBRARY OF MEDICINE (NLM)®
ONLINE SERVICES APPLICATION

Return Forms A and B (and C, if student) to:

*MEDLARS Management Section
 National Library of Medicine
 Bethesda, MD 20894*

You may FAX your application to:
 (301) 496-0822
 Do NOT mail copies of FAXed applications.

Questions? Contact:

*MEDLARS® Service Desk
 Monday - Friday 8:30 A.M. - 5:00 P.M. ET
 Telephone: 800-638-8480*

Applications are processed in approximately 5 working days.

This is an application for (check one):

Individual

Institution

Student - see also Form C

1. Please describe your organization or profession's primary function or major area of service. Be as specific as possible. Include your area of speciality if you are a health professional:

2. Please check the *one* administrative classification that best describes you or your organization:

a. ___ Federal government

b. ___ State/multi-state government or state university

c. ___ County/local government

d. ___ Not-for-profit or nonprofit (non-government)

e. ___ Commercial, for-profit

f. ___ Other. Please specify: _____

3. Please check if you plan to use NLM's GRATEFUL MED® software to search MEDLARS using:

IBM or compatible

Macintosh

Public reporting burden for this collection of information is estimated to average five minutes, including the time for reviewing instructions, gathering needed information and completing and reviewing the questionnaire. If you have comments regarding this burden please send them to Reports Clearance Officer, PHS, 721-B Hubert H. Humphrey Bldg., 200 Independence Ave., S.W., Washington, DC 20201, Attn: PRA; and to the Office of Management and Budget, Paperwork Reduction Project, 0925-0223, Washington, DC 20503.

Online access provided through this application is limited to the United States, its possessions and territories.

For NLM Use Only:

Date Rec'd: _____

User Type: _____

Over

Form B

NLM ONLINE BILLING AGREEMENT

Complete and sign this form which authorizes the National Technical Information Service (NTIS), the billing agent for MEDLARS®, to bill you for use of NLM's online services. Return with Form A (and C, if student) to:

*MEDLARS Management Section
National Library of Medicine
Bethesda, MD 20894*

There are no subscription fees or minimum charges associated with MEDLARS User ID Codes.

User Information:

Billing Information (if different):

Personal Name

Personal Name or Title (optional)

Institution/Organization (if applicable)

Institution/Organization (if applicable)

Office (optional)

Office (optional)

Street Address

Street Address

City State Zip

City State Zip

Daytime Phone (include area code)

Daytime Phone (include area code)

No advance payment is required if you select the Direct or Credit Card payment option. Include purchase orders or checks for Deposit Account. Future rate changes may be announced; continued use of the services for 90 days after any announced rate change authorizes NTIS to bill at the changed rate. Government users must include a purchase order (PO) with these forms. NOTE: Interest will be charged on any account 60 days overdue. Federal, state, and local government users are exempt from interest charges.

I/We elect to pay NTIS for use of NLM's online services in the manner specified below (check one):

Direct payment: Payment is due upon receipt of monthly invoices. Make checks payable to NTIS.

Credit Card: Visa MasterCard American Express

Card #: _____ Expiration Date: ____/____

Authorizing Signature _____

Deposit Account: This type of account requires an advance deposit of funds. A minimum of \$100 is required to open an account. It is possible to use an existing deposit account which was established for obtaining other NTIS products or services: Deposit Account Number _____.

Signature (required for all applicants) _____ Date ____/____/____

Printed/Typed Name _____

For Students Only

APPLICATION FOR STUDENT ONLINE ACCESS

The National Library of Medicine has a special program at reduced rates for student access to MEDLARS®. If you are: a college or university student; a resident, fellow, or intern (see Section 1); or a college, university, or educational institution offering online search instruction (see Section 2) and would like to participate in the program, complete and return Forms A and B of the NLN ONLINE APPLICATION FORM, as well as the appropriate information below:

- Student Codes are billed at approximately 50% of either the prime or non-prime online charges. Offline prints are available at the regular rates.
- Student Codes do not receive the \$40.00 credit that comes with regular codes.

Complete Section 1 or 2.

Section 1. Individual Student Codes

Individual students: Have educational program official sign and complete the following before returning application forms.

I certify that (name of student) _____, is enrolled as a student.

Program: _____ Institution: _____

Type of student:

- Medical Dental Nursing
 Library/Information Science Other, please specify: _____

Note: At the end of two years the Individual Student Code will automatically be converted to regular charges.

Signature _____ Program/Specialty _____ Daytime Phone (include area code) _____

Section 2. Institutional Student Codes

Institutions may obtain Student Codes for courses or for students who will be doing their own searches. (See reverse for additional information.)

Institutional Student Codes may be "capped" or limited to a specified number of connect hours, for six month intervals beginning in January and July.

Name of institution: _____

Number of codes requested: _____ Hours to limit: _____

Please send MEDLARS Management a list of names and educational levels of students participating in this program.

Additional Information -- Institutional Student Code Program (Only)

- The Institutional Student Code program is designed to provide access at reduced rates to the NLM databases for course preparation by instructors and for course work and practice by students.
- Student Codes are available to educational institutions at the high school level or above or societies that incorporate instruction of online retrieval systems in regularly scheduled courses.
- NLM recommends that one individual direct the Student Code program for the institution or department. Enter this individual's name, etc., on Form B under "User's Information." All information regarding the Student Code program will be sent by NLM to this person.
- The codes may be "capped" or limited to a specified number of connect hours of use. If your codes are to be capped, please indicate this on the reverse. A code will be disabled on the day after it exceeds its limit.
- Possible scenarios for Student Code programs:

A single code used with GRATEFUL MED® on one computer available to the students on a walk-in basis.

A few codes shared by a number of students on various computers. Note: a code may be used by only one person at a time to search the system.

A student is assigned an individual code for use on any computer.

- Student Codes are provided by NLM for students doing their own searches; they are not available for searcher intermediaries performing searches for students.
- Institutional Student codes will be "mapped" together for billing purposes under one Master account. A single invoice will be sent for a Master account, showing usage and charges for each individual code that is mapped to the Master account.
- If you have any questions, please call the MEDLARS Management Service Desk at (800) 638-8480, Monday - Friday 8:30 A.M. - 5:00 P.M. ET.

MEMORANDUM OF UNDERSTANDING

You should carefully read the following Memorandum of Understanding. The use of your assigned MEDLARS ® User ID Code for NLM online computer services indicates your acceptance of the following terms, conditions and responsibilities.

This Agreement between the National Library of Medicine (NLM) and the participating organization or individual is intended to assure a common understanding of the responsibilities of each party.

1. NLM agrees to provide:
 - a. Access to its public online bibliographic databases as determined by NLM.
 - b. Technical data and documentation detailing system usage and modifications, some of which are "for purchase" items.
 - c. Assistance during normal business hours (8:30 a.m. - 5:00 p.m. Eastern Time, Monday-Friday) to resolve operating problems and difficulties.
2. The participating organization or individual agrees to:
 - a. Purchase appropriate documentation materials (e.g., Manuals, etc.).
 - b. Obtain and pay for equipment necessary to access the NLM computers, including telephone installation and rental, and rental or purchase of an appropriate terminal or microcomputer equipment.
 - c. Protect the system from unauthorized use.
 - d. Pay charges assessed by NLM for its online services (including royalty fees charged by database suppliers).
 - e. Indicate clearly, if fees are charged to others for online services, the portion of the fee that is assessed by NLM for services.
3. Rate changes shall become effective 90 days after written notice, except that royalty charge changes for certain NLM databases may be passed on to the participating organization/individual without advance notice. Rate changes will be announced in the NLM Technical Bulletin, a publication that is sent monthly to each user organization/individual.
4. Some material in the NLM databases is from copyrighted publications of the respective copyright claimants. Users of the database are referred to the publication data appearing in the bibliographic citations, as well as to the copyright notices appearing in the original publication, all of which are incorporated by reference.
5. NLM databases shall not be issued for resale, republication, or redistribution in machine-readable or any other format, except as authorized under a signed NLM License Agreement to Lease NLM Databases in Machine-Readable Form.
6. Data obtained by downloading portions of the database (i.e., retrieving portions of a database online for subsequent storage on a personal computer) or as Subsets* for "personal" use may be retained in machine-readable form by those employing automated technology such as microcomputers.
7. Future revisions of this Memorandum of Understanding will be announced in a special section of the NLM Technical Bulletin.
8. This Agreement is effective for an indefinite period. It may be terminated at any time by either party by a 90-day written notice, or terminated at any time by the user by a 30-day written notice prior to the effective date of a change in rates. Failure of the participating organization or individual to adhere to the terms of this Agreement may result in an immediate termination or suspension of access to NLM's online databases. Online access to the databases by the participating organization or individual shall be severed upon termination of this Agreement in writing by either party.
9. Interest will be charged on any account 60 days overdue. Federal, state and local government users are exempt from interest charges.

* Subsets policy for portions of databases loaded for local re-use are covered in the NLM License Agreement to Lease NLM Databases in Machine-Readable Form.

10. NLM represents that data provided under this Agreement were formulated with a reasonable standard of care. Except for this representation, and as otherwise specifically provided in this Agreement, NLM makes no warranties, as to fitness for particular purposes, and will not be liable for consequential or incidental damages, or other claims or demands arising out of the use of MEDLARS®, MEDLINE®, GRATEFUL MED®, or any products, services, or documentation. Users are responsible for claims arising out of third-party use. Further, the National Library of Medicine reserves the right to revise programs, products, or publications and to make changes from time to time in the content without obligation to notify any person of such revisions or changes.

After NLM processes your application, you will receive:

- A User ID Code and passwords for accessing the MEDLARS® system. Each code (except student codes) comes with a \$40.00 practice credit, which represents approximately two hours of MEDLINE® online searching.
- System documentation including access procedures, telephone access numbers, equipment settings, pocket cards, and general information about MEDLARS® and NLM.
- The monthly publication, the NLM Technical Bulletin, in which news about the NLM computer systems, databases, and price changes is published.

If you are restricted to ONE-YEAR AGREEMENTS only:

Indicate the month that you want the code to become effective and provide a typed name AND signature below. You must provide NLM with written notice of renewal within 30 days prior to the expiration date for each successive year that you intend to keep the code active.

PERSONAL NAME: _____

INSTITUTION (IF APPLICABLE): _____

REQUESTED EFFECTIVE DATE: ____/____/____

SIGNATURE: _____

NLM AUTOMATIC SDI SERVICE REQUEST FORM

USER ID

MAILING ADDRESS:

INSTITUTION/OFFICE/NAME

UP TO 50 CHARACTERS PER
LINE INCLUDING SPACES

ADDRESS

CITY, STATE, ZIP

CONTACT PERSON

TELEPHONE NUMBER

CHECK REQUIRED ACTION:

 BEGIN service on the _____ database.*

*Submit a separate form for EACH database on which you store searches.

For SDI service on both TOXLINE and TOXLIT, one form is sufficient; indicate below:

 TOXLINE

 TOXLIT

 BOTH

 CHANGE a previously submitted form for the _____ database.*

 name and/or mailing address

 print and/or sort formats

 CANCEL service on the _____ database(s)*.

* AIDSLINE	HEALTH
AVLINE	POPLINE
CANCERLIT	SDILINE/MEDLINE
CATLINE	TOXLINE/TOXLIT

SDI PRINT and SORT FORMATS:

See back of form.

Data elements and sort format MUST be specified for searches stored in the number range 701-800:

ELEMENTS TO PRINT:

SORT FORMAT:

(for example) UI.AU.TI.MH.SO

(for example) JNL

For complete STORESEARCH and Automatic SDI instructions see the Online Services Reference Manual, Chapter 5.2.

Return separate form for SDI service on each database to:

MEDLARS Management Section
NATIONAL LIBRARY OF MEDICINE
8600 Rockville Pike
Bethesda, MD 20894

Or fax to: (301) 496-0822

SDI PRINT FORMATS

DATABASE NAME AND LETTER CODE	SEARCH NUMBER RANGE	PRINT FORMAT OR ELEMENTS	SORT FORM
SDILINE (MEDLINE) S	S001-200 S201-400 S401-600 S601-700 S701-800	UI, AU, TI, SO UI, AU, TI, LA, MH, RN, PT, AD, SO UI, AU, TI, TT, LA, MH, AB, AD, SO UI, AU, TI, AB, SO <i>USER MUST SPECIFY ON FRONT OF FORM</i>	JNL**
AIDSLINE D	D001-200 D201-400 D401-600 D601-700 D701-800	SI, AU, TI, SO SI, AU, TI, LA, MH, RN, PT, AD, SO AU, TI, TT, LA, MH, AB, AD, SO, SI AU, TI, AB, SO, SI <i>USER MUST SPECIFY ON FRONT OF FORM</i>	JNL
AVLINE A	A001-200 A201-400 A401-600 A601-700 A701-800	STANDARD* LOAN* FULL* DETAILED* <i>USER MUST SPECIFY ON FRONT OF FORM</i>	AUTI***
CANCERLIT C	C001-200 C201-400 C401-600 C601-700 C701-800	AU, TI, SI, SO AU, AD, TI, SI, PT, SO, LA, AB SI, AU, AD, TI, JC, AA, EM, SO, LA, IS, SB, AB, YR, RN, TA, PT, MH, ID SI, AU, TI, AB, PT, S, <i>USER MUST SPECIFY ON FRONT OF FORM</i>	JNL
CATLINE B	B001-200 B201-400 B401-600 B601-700 B701-800	STANDARD* ACQUISITIONS* FULL* DETAILED* <i>USER MUST SPECIFY ON FRONT OF FORM</i>	AUTI
HEALTH H	H001-200 H201-400 H401-600 H601-700 H701-800	SI, AU, TI, SO SI, AU, TI, LA, MH, PT, SO SI, AU, TI, TT, LA, MH, AB, SO SI, AU, TI, AB, SO <i>USER MUST SPECIFY ON FRONT OF FORM</i>	JNL
POPLINE P	P001-200 P201-400 P401-600 P601-700 P701-800	SI, AU, TI, SO SI, AU, TT, TI, GN, AB, AD, SO SI, AU, TI, GN, LA, AD, KW, SO SI, AU, TI, GN, AD, SO <i>USER MUST SPECIFY ON FRONT OF FORM</i>	AUTI
TOXLINE TOXLIT T	T001-200 T201-400 T401-600 T601-700 T701-800	AU, TI, SI, SO AU, AD, TI, SI, SO, LA, AB, MH SI, AU, AD, TI, SO, TA, OD, PR, SA, PT, LA, CD, IS, AB, KW, MH, RN, EM SI, AU, CN, TI, AD, SA, SO <i>USER MUST SPECIFY ON FRONT OF FORM</i>	AUTI

PRINT FORMATS: *To see data elements in standard, full, detailed, and other pre-defined print formats, access FILE INFORM; type EXPLAIN *name of database* (e.g. EXPLAIN CATLINE).

SORT FORMATS: JNL** (journal): citations sorted by TA (journal title abbreviation) in alphabetical order, by date of issue.
AUTI*** (author/title): citations sorted by author name (personal/corporate), by TI (title), in alphabetical order.

SUGGESTION FOR MEDICAL SUBJECT HEADINGS CHANGE

Suggested change:

(One- or two-sentence statement of what you feel is needed)

How often have you encountered this concept? _____

Reason for suggesting change:

(If suggesting a new term, please mention the sense or context in which the term occurs if you cannot define it.)

Citations:

(One or more authoritative citations, either from MEDLINE or other sources, are requested, particularly if the concept or term is quite new or rarely written about.)

Name: _____ Date: _____

Address: _____

Telephone: _____/_____

Please return to:

MeSH Section
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20894
(301) 496-1495

NTIS Order Form

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



(703) 487-4650

For Rush Service—1-800-553-NTIS

Rush orders are usually shipped next day by *overnight* courier in the U.S. or by Air Mail outside the U.S.

Add \$15 per report for the U.S., Canada, and Mexico or \$25 for other countries. Rush is also available for computer products. *Do not mail rush orders.*

To order subscriptions, call (703) 487-4630.

FAX this form (703) 321-8547

Address

Date _____ DTIC Users Code _____
 Contract No. _____
Last six digits

Last Name _____ First Initial _____
 Title _____
 Company _____
 Address _____
 City/State/ZIP _____
 Attention _____
 Telephone number _____ FAX number _____

Payment

Charge my NTIS Deposit Account _____

Charge my

Account No. _____ Exp. _____

Check/Money order enclosed for \$ _____
(Payable in U.S. dollars)

Purchase order enclosed, add \$7.50 (U.S., Canada & Mexico only)

Purchase Order No. _____

Signature: _____
(Required to validate all orders)

Order Selection

Enter NTIS order numbers <small>(Ordering by title alone will delay your order)</small>	Customer Routing <small>(up to 8 digits)</small>	Quantity	Unit Price	Micro-fiche ^{††}	Specify density for tape orders		Internat'l Air Mail <small>(see reverse)</small>	TOTAL PRICE
					1600 bpi	6250 bpi		
1.				<input type="checkbox"/> Yes				
2.				<input type="checkbox"/> Yes				
3.				<input type="checkbox"/> Yes				
4.				<input type="checkbox"/> Yes				
5.				<input type="checkbox"/> Yes				
6.				<input type="checkbox"/> Yes				
7.				<input type="checkbox"/> Yes				
8.				<input type="checkbox"/> Yes				
9.				<input type="checkbox"/> Yes				
10.				<input type="checkbox"/> Yes				

OVER—Order continued on reverse

[†]NTIS will label each item with up to eight characters of your organization's routing code.

^{††}Microfiche is available for most printed reports.

SUBTOTAL from other side
Handling Fee U.S., Canada & Mexico—\$3 Other countries—\$4
Purchase Order Fee, if required—\$7.50
GRAND TOTAL

▶ Order Selection (Cont.)

Enter NTIS order numbers (Ordering by title alone will delay your order)	Customer Routing (up to 8 digits)	Quantity	Unit Price	Micro-fiche	Specify density for tape orders		Internat'l Air Mail (see below)	TOTAL PRICE	
					1800 bpi	6250 bpi			
11.				<input type="checkbox"/> Yes					
12.				<input type="checkbox"/> Yes					
13.				<input type="checkbox"/> Yes					
14.				<input type="checkbox"/> Yes					
15.				<input type="checkbox"/> Yes					
16.				<input type="checkbox"/> Yes					
17.				<input type="checkbox"/> Yes					
18.				<input type="checkbox"/> Yes					
19.				<input type="checkbox"/> Yes					
20.				<input type="checkbox"/> Yes					
21.				<input type="checkbox"/> Yes					
22.				<input type="checkbox"/> Yes					
23.				<input type="checkbox"/> Yes					
24.				<input type="checkbox"/> Yes					
25.				<input type="checkbox"/> Yes					
Subtotal									

ENTER on the other side.

▶ Price Codes—Effective October 1991

These prices are for the U.S., Canada & Mexico; prices for other countries are double, except for "N" codes.

Microfiche & Printed Reports

A01 \$9.00	E01 \$11
A02 12.50	E02 14
A03 17.00	E03 16
A04-A05 19.00	E04 19
A06-A09 26.00	E05 21
A10-A13 35.00	E06 24
A14-A17 43.00	E07 27
A18-A21 50.00	E08 30
A22-A25 59.00	E09 33
A99 *	E10 36
	E11 39
	E12 43
	E13 46
N01 \$60.00	E14 50
N02 59.00	E15 54
N03 20.00	E16 59
	E17 64
	E18 69
	E19 76
	E20 88
	E99 *

Diskettes & CD-ROM

D01 \$55
D02 90
D03 140
D04 195
D05 250
D06 300
D07 360
D08 410
D09 460
D10 520
D11 570
D12 630
D13 680
D14 740
D15 790
D16 840
D17 890
D18 950
D19 1,000
D99 *

Magnetic Tapes

T01 \$180
T02 240
T03 360
T04 480
T05 590
T06 710
T07 820
T08 940
T09 1,050
T10 1,160
T11 1,270
T12 1,390
T13 1,500
T14 1,620
T15 1,740
T16 1,850
T17 1,960
T18 2,080
T19 2,190
T99 *

*Contact NTIS for price

▶ International Air Mail

Printed reports and microfiche copies are shipped surface mail unless Air Mail is requested.

Canada and Mexico add \$4 per printed report; \$1 per microfiche copy.

Other countries add \$8 per printed report; \$1.25 per microfiche copy.

Computer products are shipped Air Mail at no extra cost.

NTIS does not permit returns for credit or refund. NTIS will replace items if an error was made in filling your order or if the item is defective.

After the original stock of a technical report is exhausted, NTIS reprints directly from the master archival copy. These printed-to-order copies are the best possible reproductions.

APPENDIX M

LOCATOR CODES IN SERLINE (BY LOCATOR CODE)

AN * INDICATES REGIONAL MEDICAL OR RESOURCE LIBRARY

REGION 01

*01AEB	ALBERT EINSTEIN COLLEGE OF MEDICINE BRONX	NY
01AJN	AMERICAN JOURNAL OF NURSING COMPANY NEW YORK	NY
*01ALB	ALBANY MEDICAL COLLEGE ALBANY	NY
*01COR	CORNELL UNIVERSITY MEDICAL COLLEGE NEW YORK	NY
*01CPP	COLLEGE OF PHYSICIANS OF PHILADELPHIA PHILADELPHIA	PA
*01CPS	COLUMBIA UNIVERSITY NEW YORK	NY
*01DAM	DELAWARE ACADEMY OF MEDICINE LIBRARY WILMINGTON	DE
*01HAN	HAHNEMANN UNIVERSITY LIBRARY PHILADELPHIA	PA
01HER	PENNSYLVANIA STATE UNIVERSITY MILTON HERSHEY MEDICAL CENTER HERSHEY	PA
01ICR	INSTITUTE FOR CANCER RESEARCH PHILADELPHIA	PA
01JEF	THOMAS JEFFERSON UNIVERSITY PHILADELPHIA	PA
*01MCP	MEDICAL COLLEGE OF PENNSYLVANIA PHILADELPHIA	PA
*01MLC	MEDICAL LIBRARY CENTER OF NEW YORK NEW YORK	NY
01MRL	STATE UNIVERSITY OF NEW YORK (SUNY) HLTH SCI CTR BROOKLYN BROOKLYN	NY

*01MSK	NATHAN CUMMINGS CENTER (S-46) NEW YORK	NY
*01MTS	MT SINAI SCHOOL OF MEDICINE NEW YORK	NY
*01NJN	UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY NEWARK	NJ
*01NUM	NEW YORK UNIVERSITY MEDICAL CENTER NEW YORK	NY
*01NYA	NEW YORK ACADEMY OF MEDICINE NEW YORK	NY
*01NYD	NEW YORK UNIVERSITY NEW YORK	NY
*01NYP	NEW YORK STATE PSYCHIATRIC INSTITUTE NEW YORK	NY
*01PAW	PAYNE WHITNEY PSYCHIATRIC LIBRARY (S-48-P) NEW YORK	NY
01PED	UNIVERSITY OF PENNSYLVANIA DENTAL SCHOOL PHILADELPHIA	PA
*01PEL	PENNSYLVANIA HOSPITAL PHILADELPHIA	PA
*01PEM	UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE PHILADELPHIA	PA
*01PIT	UNIVERSITY OF PITTSBURGH PITTSBURGH	PA
01POC	PHILADELPHIA COLLEGE OF OSTEOPATHIC MEDICINE PHILADELPHIA	PA
*01PPI	MEDICAL COLLEGE OF PENNSYLVANIA PHILADELPHIA	PA
*01PPS	PHILADELPHIA COLLEGE OF PHARMACY AND SCIENCE PHILADELPHIA	PA
*01RKF	ROCKEFELLER UNIVERSITY LIBRARY (S-12) NEW YORK	NY
*01ROC	UNIVERSITY OF ROCHESTER SCHOOL OF MEDICINE AND DENTISTRY ROCHESTER	NY
*01RPM	ROSWELL PARK CANCER INSTITUTE (S-100) BUFFALO	NY
*01SBU	STATE UNIVERSITY OF NEW YORK (SUNY) AT BUFFALO BUFFALO	NY

*01SSB	STATE UNIVERSITY OF NEW YORK (SUNY) STONY BROOK EAST SETAUKET	NY
*01SSY	STATE UNIVERSITY OF NEW YORK (SUNY) SYRACUSE	NY
01TED	TEMPLE UNIVERSITY PHILADELPHIA	PA
01TEM	TEMPLE UNIVERSITY HEALTH SCIENCES CENTER PHILADELPHIA	PA
*01WES	NEW YORK MEDICAL COLLEGE VALHALLA	NY
*01WPI	WESTERN PSYCHIATRIC INSTITUTE AND CLINIC PITTSBURGH	PA

REGION 02

*02ALA	UNIVERSITY OF ALABAMA AT BIRMINGHAM BIRMINGHAM	AL
*02BOW	BOWMAN GRAY SCHOOL OF MEDICINE WINSTON SALEM	NC
*02DUK	DUKE UNIVERSITY DURHAM	NC
*02EMU	EMORY UNIVERSITY ATLANTA	GA
*02ETS	EAST TENNESSEE STATE UNIVERSITY JOHNSON CITY	TN
*02EVC	EASTERN VIRGINIA MEDICAL SCHOOL NORFOLK	VA
*02FLO	UNIVERSITY OF FLORIDA GAINESVILLE	FL
*02GEO	MEDICAL COLLEGE OF GEORGIA AUGUSTA	GA
*02GTU	GEORGETOWN UNIVERSITY MEDICAL CENTER WASHINGTON	DC
*02GWU	GEORGE WASHINGTON UNIVERSITY MEDICAL CENTER WASHINGTON	DC
*02HOW	HOWARD UNIVERSITY WASHINGTON	DC

*02JHU	JOHNS HOPKINS UNIVERSITY BALTIMORE	MD
*02MAG	MOREHOUSE SCHOOL OF MEDICINE ATLANTA	GA
*02MCF	MEDICAL AND CHIRURGICAL FACULTY OF MARYLAND BALTIMORE	MD
*02MCN	MEHARRY MEDICAL COLLEGE NASHVILLE	TN
*02MCR	MERCER UNIVERSITY SCHOOL OF MEDICINE MACON	GA
*02MDB	UNIVERSITY OF MARYLAND AT BALTIMORE BALTIMORE	MD
*02MIA	UNIVERSITY OF MIAMI SCHOOL OF MEDICINE MIAMI	FL
*02MIS	UNIVERSITY OF MISSISSIPPI MEDICAL CENTER JACKSON	MS
02MRU	MARSHALL UNIVERSITY SCHOOL OF MEDICINE HUNTINGTON	WV
*02NCA	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL CHAPEL HILL	NC
*02NCC	EAST CAROLINA UNIVERSITY GREENVILLE	NC
*02PUR	UNIVERSITY OF PUERTO RICO SAN JUAN	PR
*02SCA	MEDICAL UNIVERSITY OF SOUTH CAROLINA CHARLESTON	SC
*02SCR	UNIVERSITY OF SOUTH CAROLINA COLUMBIA	SC
*02SOA	UNIVERSITY OF SOUTH ALABAMA MOBILE	AL
*02SOF	UNIVERSITY OF SOUTH FLORIDA TAMPA	FL
*02TEN	UNIVERSITY OF TENNESSEE AT MEMPHIS MEMPHIS	TN
*02TMC	VIRGINIA COMMONWEALTH UNIVERSITY RICHMOND	VA
*02VAN	VANDERBILT UNIVERSITY NASHVILLE	TN

*02VIR UNIVERSITY OF VIRGINIA
CHARLOTTESVILLE VA

*02WVA WEST VIRGINIA UNIVERSITY
MORGANTOWN WV

REGION 03

*03ADA AMERICAN DENTAL ASSOCIATION
CHICAGO IL

*03CCO CHICAGO COLLEGE OF OSTEOPATHIC MEDICINE
DOWNERS GROVE IL

*03CIN UNIVERSITY OF CINCINNATI
CINCINNATI OH

*03CLE CLEVELAND HEALTH SCIENCES LIBRARY
CLEVELAND OH

*03DAC WRIGHT STATE UNIVERSITY SCHOOL OF MEDICINE
DAYTON OH

03DET UNIVERSITY OF DETROIT
DETROIT MI

*03IAL IOWA LIBRARY COMMISSION
DES MOINES IA

*03ILL UNIVERSITY OF ILLINOIS AT CHICAGO
CHICAGO IL

*03IND INDIANA UNIVERSITY
INDIANAPOLIS IN

*03IOW UNIVERSITY OF IOWA
IOWA CITY IA

*03JCL UNIVERSITY OF CHICAGO
CHICAGO IL

*03KEN UNIVERSITY OF KENTUCKY
LEXINGTON KY

*03LOU UNIVERSITY OF LOUISVILLE
LOUISVILLE KY

*03LOY LOYOLA UNIVERSITY OF CHICAGO
MAYWOOD IL

*03MAY MAYO FOUNDATION; MAYO CLINIC LIBRARY
ROCHESTER MN

*03MIC	UNIVERSITY OF MICHIGAN ANN ARBOR	MI
*03MID	UNIVERSITY OF MINNESOTA DULUTH DULUTH	MN
*03MIN	UNIVERSITY OF MINNESOTA (TWIN CITIES) MINNEAPOLIS	MN
*03MSU	MICHIGAN STATE UNIVERSITY EAST LANSING	MI
*03NOD	UNIVERSITY OF NORTH DAKOTA SCHOOL OF MEDICINE GRAND FORKS	ND
*03NOU	NORTHEASTERN OHIO UNIVERSITY COLLEGE OF MEDICINE ROOTSTOWN	OH
*03NWU	NORTHWESTERN UNIVERSITY CHICAGO	IL
*03OHT	MEDICAL COLLEGE OF OHIO AT TOLEDO TOLEDO	OH
*03OHU	OHIO UNIVERSITY ATHENS	OH
*03OSU	OHIO STATE UNIVERSITY COLUMBUS	OH
03PEO	UNIVERSITY OF ILLINOIS PEORIA SCHOOL OF MEDICINE PEORIA	IL
03RSM	UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE ROCKFORD	IL
*03SIU	SOUTHERN ILLINOIS UNIVERSITY SPRINGFIELD	IL
*03SLO	STATE LIBRARY OF OHIO COLUMBUS	OH
*03SOD	UNIVERSITY OF SOUTH DAKOTA SCHOOL OF MEDICINE VERMILLION	SD
*03UHS	UNIVERSITY OF THE HEALTH SCIENCES CHICAGO MEDICAL SCHOOL NORTH CHICAGO	IL
03UIH	UNIVERSITY OF ILLINOIS URBANA	IL
03UIT	UNIVERSITY OF ILLINOIS RESEARCH REFERENCE CENTER URBANA	IL
*03WIM	MEDICAL COLLEGE OF WISCONSIN LIBRARIES MILWAUKEE	WI

*03WIS	UNIVERSITY OF WISCONSIN MADISON	WI
*03WSU	WAYNE STATE UNIVERSITY SCHOOL OF MEDICINE DETROIT	MI

REGION 04

*04COL	UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER DENVER	CO
*04CRU	CREIGHTON UNIVERSITY OMAHA	NE
*04KAN	UNIVERSITY OF KANSAS MEDICAL CENTER KANSAS CITY	KS
*04MCO	UNIVERSITY OF MISSOURI COLUMBIA COLUMBIA	MO
*04NEB	UNIVERSITY OF NEBRASKA OMAHA	NE
*04STL	ST LOUIS UNIVERSITY ST LOUIS	MO
*04UTA	UNIVERSITY OF UTAH SALT LAKE CITY	UT
*04UWY	HEALTH SCIENCE INFORMATION NETWORK LARAMIE	WY
*04WSL	WASHINGTON UNIVERSITY SCHOOL OF MEDICINE ST LOUIS	MO

REGION 05

*05ARK	UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES LITTLE ROCK	AR
05BGH	BROOKE US ARMY MEDICAL CENTER FT SAM HOUSTON	TX
05BRM	US AIR FORCE SCHOOL OF AEROSPACE MEDICINE BROOKS AFB	TX
*05LNO	LOUISIANA STATE UNIVERSITY NEW ORLEANS	LA

05LSB	LOUISIANA STATE UNIVERSITY BATON ROUGE	LA
*05LSU	LOUISIANA STATE UNIVERSITY SHREVEPORT	LA
*05MEX	UNIVERSITY OF NEW MEXICO ALBUQUERQUE	NM
*05OCO	OKLAHOMA COLLEGE OF OSTEOPATHIC MEDICINE AND SURGERY TULSA	OK
*05OKL	UNIVERSITY OF OKLAHOMA OKLAHOMA CITY	OK
*05OKT	UNIVERSITY OF OKLAHOMA TULSA MEDICAL COLLEGE TULSA	OK
05ORT	ORAL ROBERTS UNIVERSITY TULSA	OK
05TAH	UNIVERSITY OF TEXAS HOUSTON	TX
*05TAM	TEXAS A AND M UNIVERSITY COLLEGE STATION	TX
*05TCO	TEXAS COLLEGE OF OSTEOPATHIC MEDICINE FT WORTH	TX
*05TEX	HOUSTON ACADEMY OF MEDICINE HOUSTON	TX
*05TGA	UNIVERSITY OF TEXAS MEDICAL BRANCH GALVESTON	TX
05TMA	TEXAS MEDICAL ASSOCIATION LIBRARY AUSTIN	TX
*05TSA	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO SAN ANTONIO	TX
*05TSW	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER AT DALLAS DALLAS	TX
*05TTU	TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER LUBBOCK	TX
*05TUL	TULANE MEDICAL CENTER NEW ORLEANS	LA

REGION 06

06ISL	IDAHO STATE UNIVERSITY	POCATELLO	ID
*06ORE	OREGON HEALTH SCIENCES UNIVERSITY	PORTLAND	OR
*06WAS	UNIVERSITY OF WASHINGTON	SEATTLE	WA

REGION 07

*07ARI	UNIVERSITY OF ARIZONA	TUCSON	AZ
*07CDA	UNIVERSITY OF CALIFORNIA AT DAVIS	DAVIS	CA
*07CIR	UNIVERSITY OF CALIFORNIA AT IRVINE	IRVINE	CA
*07CLA	UNIVERSITY OF CALIFORNIA	LOS ANGELES	CA
*07CLL	LOMA LINDA UNIVERSITY	LOMA LINDA	CA
*07CSD	UNIVERSITY OF CALIFORNIA AT SAN DIEGO	LA JOLLA	CA
*07CSF	UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO	SAN FRANCISCO	CA
*07HML	HAWAII MEDICAL LIBRARY	HONOLULU	HI
*07NEV	UNIVERSITY OF NEVADA SCHOOL OF MEDICINE	RENO	NV
*07SDF	UNIVERSITY OF CALIFORNIA AT SAN DIEGO (BRANCH LIBRARY)	SAN DIEGO	CA
*07SOC	UNIVERSITY OF SOUTHERN CALIFORNIA	LOS ANGELES	CA
*07STA	STANFORD UNIVERSITY MEDICAL CENTER	STANFORD	CA
*07UCI	UNIVERSITY OF CALIFORNIA AT IRVINE (BRANCH LIBRARY)	ORANGE	CA

*07UDA UNIVERSITY OF CALIFORNIA AT DAVIS (BRANCH LIBRARY)
SACRAMENTO CA

*07UDN UNIVERSITY OF SOUTHERN CALIFORNIA (BRANCH LIBRARY)
LOS ANGELES CA

REGION 08

*08BNU BOSTON COLLEGE
CHESTNUT HILL MA

*08BOS BOSTON UNIVERSITY SCHOOL OF MEDICINE
BOSTON MA

*08BRN BROWN UNIVERSITY
PROVIDENCE RI

*08CON UNIVERSITY OF CONNECTICUT HEALTH CENTER
FARMINGTON CT

*08DAR DARTMOUTH COLLEGE HITCHCOCK MEDICAL CENTER
HANOVER NH

08EMM EASTERN MAINE MEDICAL CENTER
BANGOR ME

08HHH HARTFORD HOSPITAL
HARTFORD CT

08HHI ST FRANCIS HOSPITAL AND MEDICAL CENTER
HARTFORD CT

*08HMS HARVARD MEDICAL SCHOOL
BOSTON MA

08JKL JACKSON LABORATORIES
BAR HARBOR ME

08MAN MAINE MEDICAL CENTER
PORTLAND ME

*08MAS UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER
WORCESTER MA

*08MPB MASSACHUSETTS COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES
BOSTON MA

*08TUF TUFTS UNIVERSITY
BOSTON MA

*08VAT VA MEDICAL AND REGIONAL OFFICE CENTER
AUGUSTA ME

*08VER	UNIVERSITY OF VERMONT	BURLINGTON	VT
*08YAL	YALE UNIVERSITY	NEW HAVEN	CT

**LOCATOR CODES IN SERLINE
ALPHABETICAL LISTING**

AN * INDICATES A REGIONAL MEDICAL OR RESOURCE LIBRARY

*ALBANY MEDICAL COLLEGE			01ALB
ALBANY	NY		
*ALBERT EINSTEIN COLLEGE OF MEDICINE			01AEB
BRONX	NY		
*AMERICAN DENTAL ASSOCIATION			03ADA
CHICAGO	IL		
AMERICAN JOURNAL OF NURSING COMPANY			01AJN
NEW YORK	NY		
*BOSTON COLLEGE			08BNU
CHESTNUT HILL	MA		
*BOSTON UNIVERSITY SCHOOL OF MEDICINE			08BOS
BOSTON	MA		
*BOWMAN GRAY SCHOOL OF MEDICINE			02BOW
WINSTON SALEM	NC		
BROOKE US ARMY MEDICAL CENTER			05BGH
FT SAM HOUSTON	TX		
*BROWN UNIVERSITY			08BRN
PROVIDENCE	RI		
*CHICAGO COLLEGE OF OSTEOPATHIC MEDICINE			03CCO
DOWNERS GROVE	IL		
*CLEVELAND HEALTH SCIENCES LIBRARY			03CLE
CLEVELAND	OH		
*COLLEGE OF PHYSICIANS OF PHILADELPHIA			01CPP
PHILADELPHIA	PA		
*COLUMBIA UNIVERSITY			01CPS
NEW YORK	NY		

*CORNELL UNIVERSITY MEDICAL COLLEGE NEW YORK	NY	01COR
*CREIGHTON UNIVERSITY OMAHA	NE	04CRU
*DARTMOUTH COLLEGE HITCHCOCK MEDICAL CENTER HANOVER	NH	08DAR
*DELAWARE ACADEMY OF MEDICINE LIBRARY WILMINGTON	DE	01DAM
*DUKE UNIVERSITY DURHAM	NC	02DUK
*EAST CAROLINA UNIVERSITY GREENVILLE	NC	02NCC
*EAST TENNESSEE STATE UNIVERSITY JOHNSON CITY	TN	02ETS
EASTERN MAINE MEDICAL CENTER BANGOR	ME	08EMM
*EASTERN VIRGINIA MEDICAL SCHOOL NORFOLK	VA	02EVC
*EMORY UNIVERSITY ATLANTA	GA	02EMU
*GEORGE WASHINGTON UNIVERSITY MEDICAL CENTER WASHINGTON	DC	02GWU
*GEORGETOWN UNIVERSITY MEDICAL CENTER WASHINGTON	DC	02GTU
*HAHNEMANN UNIVERSITY LIBRARY PHILADELPHIA	PA	01HAN
HARTFORD HOSPITAL HARTFORD	CT	08HHH
*HARVARD MEDICAL SCHOOL BOSTON	MA	08HMS
*HAWAII MEDICAL LIBRARY HONOLULU	HI	07HML
*HEALTH SCIENCE INFORMATION NETWORK LARAMIE	WY	04UWY
*HOUSTON ACADEMY OF MEDICINE HOUSTON	TX	05TEX
*HOWARD UNIVERSITY WASHINGTON	DC	02HOW

IDAHO STATE UNIVERSITY POCATELLO	ID	06ISL
*INDIANA UNIVERSITY INDIANAPOLIS	IN	03IND
INSTITUTE FOR CANCER RESEARCH PHILADELPHIA	PA	01ICR
*IOWA LIBRARY COMMISSION DES MOINES	IA	03IAL
JACKSON LABORATORIES BAR HARBOR	ME	08JKL
*JOHNS HOPKINS UNIVERSITY BALTIMORE	MD	02JHU
*LOMA LINDA UNIVERSITY LOMA LINDA	CA	07CLL
*LOUISIANA STATE UNIVERSITY NEW ORLEANS	LA	05LNO
LOUISIANA STATE UNIVERSITY BATON ROUGE	LA	05LSB
*LOUISIANA STATE UNIVERSITY SHREVEPORT	LA	05LSU
*LOYOLA UNIVERSITY OF CHICAGO MAYWOOD	IL	03LOY
MAINE MEDICAL CENTER PORTLAND	ME	08MAN
MARSHALL UNIVERSITY SCHOOL OF MEDICINE HUNTINGTON	WV	02MRU
*MASSACHUSETTS COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES BOSTON	MA	08MPB
*MAYO FOUNDATION; MAYO CLINIC LIBRARY ROCHESTER	MN	03MAY
*MEDICAL AND CHIRURGICAL FACULTY OF MARYLAND BALTIMORE	MD	02MCF
*MEDICAL COLLEGE OF GEORGIA AUGUSTA	GA	02GEO
*MEDICAL COLLEGE OF OHIO AT TOLEDO TOLEDO	OH	03OHT
*MEDICAL COLLEGE OF PENNSYLVANIA PHILADELPHIA	PA	01PPI

*MEDICAL COLLEGE OF PENNSYLVANIA PHILADELPHIA	PA	01MCP
*MEDICAL COLLEGE OF WISCONSIN LIBRARIES MILWAUKEE	WI	03WIM
*MEDICAL LIBRARY CENTER OF NEW YORK NEW YORK	NY	01MLC
*MEDICAL UNIVERSITY OF SOUTH CAROLINA CHARLESTON	SC	02SCA
*MEHARRY MEDICAL COLLEGE NASHVILLE	TN	02MCN
*MERCER UNIVERSITY SCHOOL OF MEDICINE MACON	GA	02MCR
*MICHIGAN STATE UNIVERSITY EAST LANSING	MI	03MSU
*MOREHOUSE SCHOOL OF MEDICINE ATLANTA	GA	02MAG
*MT SINAI SCHOOL OF MEDICINE NEW YORK	NY	01MTS
*NATHAN CUMMINGS CENTER (S-46) NEW YORK	NY	01MSK
*NEW YORK ACADEMY OF MEDICINE NEW YORK	NY	01NYA
*NEW YORK MEDICAL COLLEGE VALHALLA	NY	01WES
*NEW YORK STATE PSYCHIATRIC INSTITUTE NEW YORK	NY	01NYP
*NEW YORK UNIVERSITY NEW YORK	NY	01NYD
*NEW YORK UNIVERSITY MEDICAL CENTER NEW YORK	NY	01NUM
*NORTHEASTERN OHIO UNIVERSITY COLLEGE OF MEDICINE ROOTSTOWN	OH	03NOU
*NORTHWESTERN UNIVERSITY CHICAGO	IL	03NWU
*OHIO STATE UNIVERSITY COLUMBUS	OH	03OSU
*OHIO UNIVERSITY ATHENS	OH	03OHU

*OKLAHOMA COLLEGE OF OSTEOPATHIC MEDICINE AND SURGERY TULSA OK	05OCO
ORAL ROBERTS UNIVERSITY TULSA OK	05ORT
*OREGON HEALTH SCIENCES UNIVERSITY PORTLAND OR	06ORE
*PAYNE WHITNEY PSYCHIATRIC LIBRARY (S-48-P) NEW YORK NY	01PAW
*PENNSYLVANIA HOSPITAL PHILADELPHIA PA	01PEL
PENNSYLVANIA STATE UNIVERSITY MILTON HERSHEY MEDICAL CENTER HERSHEY PA	01HER
PHILADELPHIA COLLEGE OF OSTEOPATHIC MEDICINE PHILADELPHIA PA	01POC
*PHILADELPHIA COLLEGE OF PHARMACY AND SCIENCE PHILADELPHIA PA	01PPS
*ROCKEFELLER UNIVERSITY LIBRARY (S-12) NEW YORK NY	01RKF
*ROSWELL PARK CANCER INSTITUTE (S-100) BUFFALO NY	01RPM
*SOUTHERN ILLINOIS UNIVERSITY SPRINGFIELD IL	03SIU
ST FRANCIS HOSPITAL AND MEDICAL CENTER HARTFORD CT	08HHI
*ST LOUIS UNIVERSITY ST LOUIS MO	04STL
*STANFORD UNIVERSITY MEDICAL CENTER STANFORD CA	07STA
*STATE LIBRARY OF OHIO COLUMBUS OH	03SLO
*STATE UNIVERSITY OF NEW YORK (SUNY) SYRACUSE NY	01SSY
*STATE UNIVERSITY OF NEW YORK (SUNY) AT BUFFALO BUFFALO NY	01SBU
STATE UNIVERSITY OF NEW YORK (SUNY) HLTH SCI CTR BROOKLYN BROOKLYN NY	01MRL
*STATE UNIVERSITY OF NEW YORK (SUNY) STONY BROOK EAST SETAUKET NY	01SSB

TEMPLE UNIVERSITY PHILADELPHIA	PA	01TED
TEMPLE UNIVERSITY HEALTH SCIENCES CENTER PHILADELPHIA	PA	01TEM
*TEXAS A AND M UNIVERSITY COLLEGE STATION	TX	05TAM
*TEXAS COLLEGE OF OSTEOPATHIC MEDICINE FT WORTH	TX	05TCO
TEXAS MEDICAL ASSOCIATION LIBRARY AUSTIN	TX	05TMA
*TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER LUBBOCK	TX	05TTU
THOMAS JEFFERSON UNIVERSITY PHILADELPHIA	PA	01JEF
*TUFTS UNIVERSITY BOSTON	MA	08TUF
*TULANE MEDICAL CENTER NEW ORLEANS	LA	05TUL
*UNIVERSITY OF ALABAMA AT BIRMINGHAM BIRMINGHAM	AL	02ALA
*UNIVERSITY OF ARIZONA TUCSON	AZ	07ARI
*UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES LITTLE ROCK	AR	05ARK
*UNIVERSITY OF CALIFORNIA LOS ANGELES	CA	07CLA
*UNIVERSITY OF CALIFORNIA AT DAVIS DAVIS	CA	07CDA
*UNIVERSITY OF CALIFORNIA AT DAVIS (BRANCH LIBRARY) SACRAMENTO	CA	07UDA
*UNIVERSITY OF CALIFORNIA AT IRVINE IRVINE	CA	07CIR
*UNIVERSITY OF CALIFORNIA AT IRVINE (BRANCH LIBRARY) ORANGE	CA	07UCI
*UNIVERSITY OF CALIFORNIA AT SAN DIEGO LA JOLLA	CA	07CSD
*UNIVERSITY OF CALIFORNIA AT SAN DIEGO (BRANCH LIBRARY) SAN DIEGO	CA	07SDF

*UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO SAN FRANCISCO CA	07CSF
*UNIVERSITY OF CHICAGO CHICAGO IL	03JCL
*UNIVERSITY OF CINCINNATI CINCINNATI OH	03CIN
*UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER DENVER CO	04COL
*UNIVERSITY OF CONNECTICUT HEALTH CENTER FARMINGTON CT	08CON
UNIVERSITY OF DETROIT DETROIT MI	03DET
*UNIVERSITY OF FLORIDA GAINESVILLE FL	02FLO
UNIVERSITY OF ILLINOIS URBANA IL	03UIH
*UNIVERSITY OF ILLINOIS AT CHICAGO CHICAGO IL	03ILL
UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE ROCKFORD IL	03RSM
UNIVERSITY OF ILLINOIS PEORIA SCHOOL OF MEDICINE PEORIA IL	03PEO
UNIVERSITY OF ILLINOIS RESEARCH REFERENCE CENTER URBANA IL	03UIU
*UNIVERSITY OF IOWA IOWA CITY IA	03IOW
*UNIVERSITY OF KANSAS MEDICAL CENTER KANSAS CITY KS	04KAN
*UNIVERSITY OF KENTUCKY LEXINGTON KY	03KEN
*UNIVERSITY OF LOUISVILLE LOUISVILLE KY	03LOU
*UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER WORCESTER MA	08MAS
*UNIVERSITY OF MARYLAND AT BALTIMORE BALTIMORE MD	02MDB
*UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY NEWARK NJ	01NJN

*UNIVERSITY OF MIAMI SCHOOL OF MEDICINE MIAMI FL	02MIA
*UNIVERSITY OF MICHIGAN ANN ARBOR MI	03MIC
*UNIVERSITY OF MINNESOTA (TWIN CITIES) MINNEAPOLIS MN	03MIN
*UNIVERSITY OF MINNESOTA DULUTH DULUTH MN	03MID
*UNIVERSITY OF MISSISSIPPI MEDICAL CENTER JACKSON MS	02MIS
*UNIVERSITY OF MISSOURI COLUMBIA COLUMBIA MO	04MCO
*UNIVERSITY OF NEBRASKA OMAHA NE	04NEB
*UNIVERSITY OF NEVADA SCHOOL OF MEDICINE RENO NV	07NEV
*UNIVERSITY OF NEW MEXICO ALBUQUERQUE NM	05MEX
*UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL CHAPEL HILL NC	02NCA
*UNIVERSITY OF NORTH DAKOTA SCHOOL OF MEDICINE GRAND FORKS ND	03NOD
*UNIVERSITY OF OKLAHOMA OKLAHOMA CITY OK	05OKL
*UNIVERSITY OF OKLAHOMA TULSA MEDICAL COLLEGE TULSA OK	05OKT
UNIVERSITY OF PENNSYLVANIA DENTAL SCHOOL PHILADELPHIA PA	01PED
*UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE PHILADELPHIA PA	01PEM
*UNIVERSITY OF PITTSBURGH PITTSBURGH PA	01PIT
*UNIVERSITY OF PUERTO RICO SAN JUAN PR	02PUR
*UNIVERSITY OF ROCHESTER SCHOOL OF MEDICINE AND DENTISTRY ROCHESTER NY	01ROC
*UNIVERSITY OF SOUTH ALABAMA MOBILE AL	02SOA

*UNIVERSITY OF SOUTH CAROLINA COLUMBIA	SC	02SCR
*UNIVERSITY OF SOUTH DAKOTA SCHOOL OF MEDICINE VERMILLION	SD	03SOD
*UNIVERSITY OF SOUTH FLORIDA TAMPA	FL	02SOF
*UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES	CA	07SOC
*UNIVERSITY OF SOUTHERN CALIFORNIA (BRANCH LIBRARY) LOS ANGELES	CA	07UDN
*UNIVERSITY OF TENNESSEE AT MEMPHIS MEMPHIS	TN	02TEN
UNIVERSITY OF TEXAS HOUSTON	TX	05TAH
*UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO SAN ANTONIO	TX	05TSA
*UNIVERSITY OF TEXAS MEDICAL BRANCH GALVESTON	TX	05TGA
*UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER AT DALLAS DALLAS	TX	05TSW
*UNIVERSITY OF THE HEALTH SCIENCES CHICAGO MEDICAL SCHOOL NORTH CHICAGO	IL	03UHS
*UNIVERSITY OF UTAH SALT LAKE CITY	UT	04UTA
*UNIVERSITY OF VERMONT BURLINGTON	VT	08VER
*UNIVERSITY OF VIRGINIA CHARLOTTESVILLE	VA	02VIR
*UNIVERSITY OF WASHINGTON SEATTLE	WA	06WAS
*UNIVERSITY OF WISCONSIN MADISON	WI	03WIS
US AIR FORCE SCHOOL OF AEROSPACE MEDICINE BROOKS AFB	TX	05BRM
*VA MEDICAL AND REGIONAL OFFICE CENTER AUGUSTA	ME	08VAT
*VANDERBILT UNIVERSITY NASHVILLE	TN	02VAN

*VIRGINIA COMMONWEALTH UNIVERSITY RICHMOND VA	02TMC
*WASHINGTON UNIVERSITY SCHOOL OF MEDICINE ST LOUIS MO	04WSL
*WAYNE STATE UNIVERSITY SCHOOL OF MEDICINE DETROIT MI	03WSU
*WEST VIRGINIA UNIVERSITY MORGANTOWN WV	02WVA
*WESTERN PSYCHIATRIC INSTITUTE AND CLINIC PITTSBURGH PA	01WPI
*WRIGHT STATE UNIVERSITY SCHOOL OF MEDICINE DAYTON OH	03DAC
*YALE UNIVERSITY NEW HAVEN CT	08YAL

1992 FORM SUBHEADINGS FOR CATALOGERS, WITH SCOPE NOTES

The following 17 form subheadings were omitted from the list of form subheadings in the introduction to the 1992 Annotated Alphabetic List.

abstracts

(63) Under topical headings for compilations of entries for monographs, articles, other writings, or non-print materials, together with short summaries of them: Neurosurgery - abstracts. sa bibliography; indexes.

abstracts - CD-ROMs

(92) Under topical headings for compilations of entries for monographs, articles, other writings, or non-print materials, together with short summaries of them issued in CD-ROM format: Public Health - abstracts - CD-ROMs.

bibliography

(63) Under topical headings for lists of monographs, articles, other writings, or non-print materials: Depression - bibliography; Family Planning - bibliography; Malaria - bibliography. sa abstracts; biobibliography; indexes

directories

(63) Under topical headings, types of corporate bodies, and classes of persons for lists of names and addresses of persons or agencies associated with the entity named: Family Planning - directories; Physicians - directories. sa biography; registers.

directories - bibliography

(75) Under topical headings, types of corporate bodies, and classes of persons for bibliographies of directories of the subject indicated: Neoplasms - directories - bibliography.

film catalogs

(75) Under topical headings for catalogs of motion pictures and filmstrips: Geology - film catalogs. sa filmstrips - catalogs; motion pictures - catalogs.

filmstrips

(74) Under topical headings: Sex Education - filmstrips.

filmstrips - catalogs

(75) Under topical headings for catalogs of filmstrips: Nursing - filmstrips - catalogs. sa film catalogs.

guidebooks

(75) Under names of types of institutions, parks, roads, etc. sa maps.

humor

(74) Under topical headings and names of classes of persons for jokes and facetiae relating to a given subject: Sociology - humor. sa anecdotes; cartoons.

legends

(78) Under topical headings and names of classes of persons and Indian tribes for collections of narrative handed down by tradition from earlier times and popularly accepted as historical: Eskimos - legends; Mortuary Practice - legends.

1992 FORM SUBHEADINGS FOR CATALOGERS, WITH SCOPE NOTES

manuscripts - catalogs

(75) Under topical headings and names of classes of persons for listings of works in manuscript form: Medicine - manuscripts - catalogs. sa catalogs.

personal narratives

(72) Under topical headings and names of classes of persons for accounts of an individual's experiences in relation to the field of the headings or of his participation in his calling; includes autobiographical account: Adoption - personal narratives; Mental Disorders - personal narratives. sa biography

phonodiscs

(68) Under topical headings and names of classes of persons for sound recordings: Sex Education - phonodiscs.

portraits

(74) Under names of classes of persons: Physicians - portraits.

portraits - catalogs

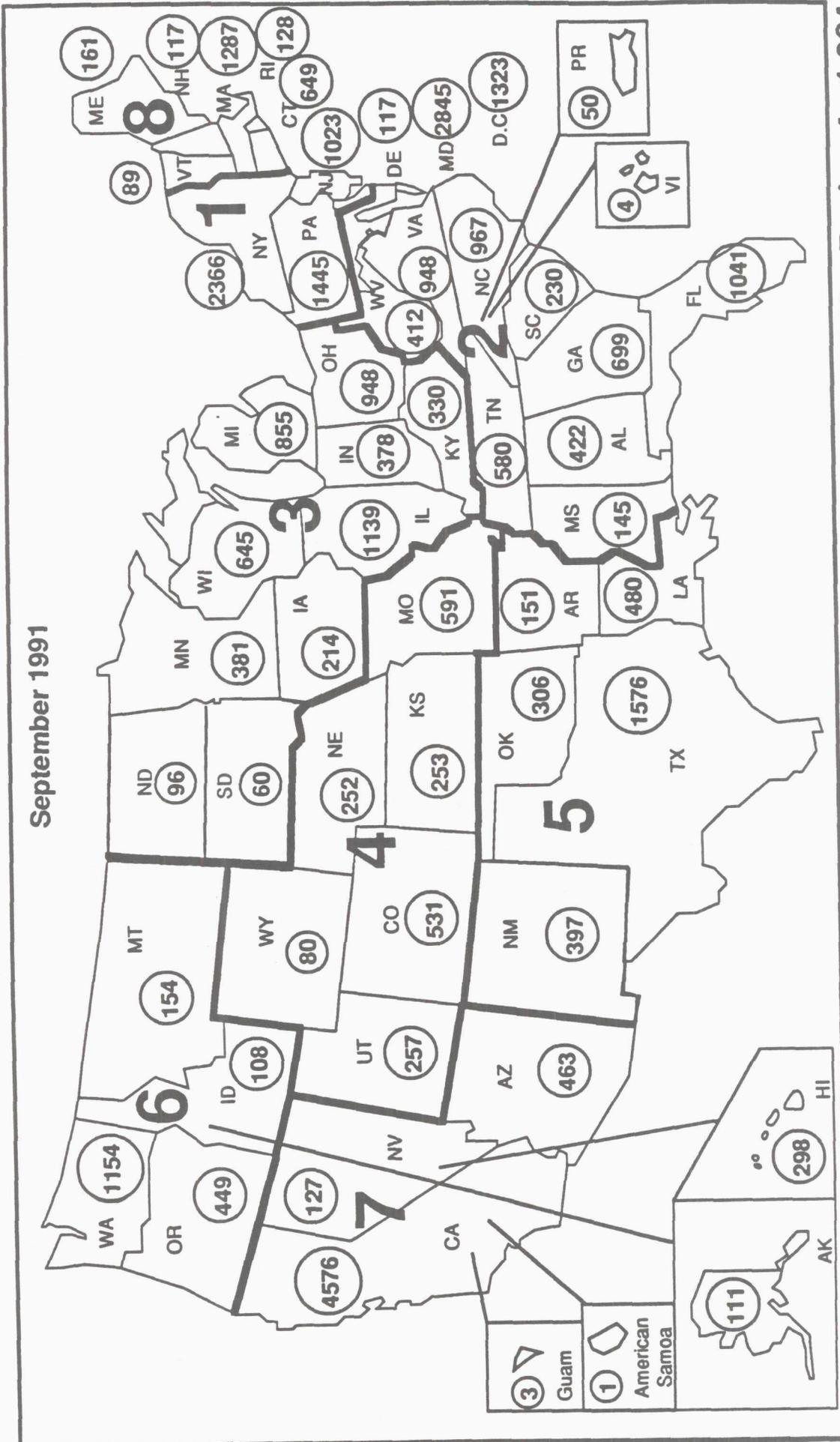
(75) Under names of classes of persons for lists of portraits connected with the entity.

portraits - motion pictures

(86) Under names of classes of persons for portraits, issued in motion picture format: Physicians - portraits - motion pictures

National Library of Medicine Online Codes in the United States

September 1991



Online Centers Region 1 - 4,951 Region 2 - 9,666 Region 3 - 5,046 Region 4 - 1,964
 by Region: Region 5 - 2,910 Region 6 - 1,976 Region 7 - 5,468 Region 8 - 2,431
TOTAL - 34,412

COMPLIMENT/CONCERN

NAME:

USER ID CODE:

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ADDRESS:

COMMENTS:

We work for you. Please tell us what is right and what you would like to see changed.

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Mailing Information:

Address:

Daytime Phone:

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The NLM Technical Bulletin

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No. 249, JANUARY 1990
through
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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • National Institutes of Health
National Library of Medicine

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Thank you to everyone who mailed in search strategies in response to the "Gold Standard Searches" article in the November-December 1991 issue of the *Technical Bulletin*. This feature offers searchers a chance to match wits with the NLM "experts" on a search strategy formulation. The NLM search strategies are developed here at NLM. The search request published in the November-December issue was:

Criteria for the allocation of scarce organs (e.g., kidney, heart) for transplantation within the United States.

There was one winner. Congratulations go to Nancy K. Nagy of Kaiser Permanente Medical Center, Martinez, CA who will receive either a free copy of Grateful Med or one hour of free search time. The winning strategy is almost the same as the one shown in Figure 1, in the Gold Standard Search, in the HEALTH PLANNING & ADMINISTRATION file, except that Ms. Nagy did not use the MeSH heading

Continued on page 6



MEDLARS® DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL® COMPUTER				
AIDSDRUGS	139		18 APR 92	
AIDSLINE™ **	63,907	JAN 80-JUN 92	02 MAY 92	9207(EM)
AIDSTRIALS	395		18 APR 92	
AVLINE®	23,656	THROUGH 1992	01 MAY 92	
BIOETHICS®	34,669	JAN 73-APR 92	11 APR 92	9204(EM)
BIOTECHSEEK	2,157	JAN 90-MAY 92	02 MAY 92	9206(EM)
CANCERLIT®	876,661	JAN 63-MAY 92	02 MAY 92	9205(EM)
CATLINE®	692,568	THROUGH 1992	01 MAY 92	
CHEMID	267,994		22 FEB 92	
CHEMLINE®	1,102,090		29 FEB 92	9202(EM)
DENTALPROJ	786		02 MAY 92	
DIRLINE®	13,500		14 MAR 92	
DOCUSER	12,992		18 APR 92	
HEALTH	606,893	JAN 75-MAY 92	02 MAY 92	9206(EM)
HISTLINE®	104,299		02 MAY 92	9204(EM)
MEDLINE®*	1,126,873	JAN 89-JUN 92	02 MAY 92	9207(EM)
MED86	1,009,402	JAN 86-DEC 88	25 APR 92	
MED83	892,034	JAN 83-DEC 85	07 MAR 92	
MED80	803,673	JAN 80-DEC 82	11 APR 92	
MED77	776,481	JAN 77-DEC 79	14 MAR 92	
MED72	1,176,192	JAN 72-DEC 76	11 APR 92	
MED66	1,312,512	JAN 66-DEC 71	04 APR 92	
MESH VOC®	82,407	1992	02 MAY 92	
NAME AUTH®	371,702		02 MAY 92	
PDQ®		THRU MAY 92	02 MAY 92	
POPLINE	189,524	1970-MAY 92	02 MAY 92	9205(EM)
SDILINE®	35,592	APR 92	25 APR 92	9206(EM)
SERLINE®	78,368	1992	07 APR 92	
TOXLINE®	1,030,290	1981-1992	11 APR 92	9204(EM)
TOXLINE65	707,236	PRE 1965-1980	07 MAR 92	
TOXLIT™	1,033,036	1981-1992	11 APR 92	9204(EM)
TOXLIT65	586,405	1965-1980	01 SEP 87	

*N.B. FILE IS UPDATED WEEKLY; THIS IS PART 1 OF 4.

**N.B. FILE IS UPDATED WEEKLY; THIS IS PART 5 OF 5.

TOXNET® COMPUTER

CCRIS	3,383		27 FEB 92	
DART™	11,705		16 APR 92	
DBIR™	1,928		22 APR 92	
EMICBACK	71,871		08 JUL 90	
ETICBACK	49,593		08 JUL 90	
GENE-TOX	2,919		20 MAR 92	
HSDB®	4,313		29 APR 92	
IRIS	604		01 MAY 92	
RTECS®	111,239		01 MAY 92	
TRI87	80,130		30 MAR 92	
TRI88	86,416		31 MAR 92	
TRI89	85,430		24 APR 92	
TRI90	83,407		10 APR 92	
TRIFACTS	326		10 APR 92	

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 Bethesda, Maryland 20894

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

Technical Notes

New MeSH Heading

A new 1992 heading, UNIFIED MEDICAL LANGUAGE SYSTEM was added to the MeSH Vocabulary File on March 27, 1992. NLM has been encountering articles on this topic and had no direct way to index it, hence the mid-year introduction of a new MeSH heading. The new MeSH heading and scope note follow.

UNIFIED MEDICAL LANGUAGE SYSTEM

L1.700.508.300.895

A research and development program initiated by the National Library of Medicine to build an intelligent automated system that can understand biomedical concepts, words, and expressions and their interrelationships, and use this understanding to help users retrieve and organize information from a variety of machine-readable sources. The goal of the UMLS is to compensate for differences in the terminology of the disparate systems and for variations in user modes of expression. The UMLS project has produced three knowledge sources meant to be used by user interface programs. These are: the Metathesaurus, the Semantic Network, and the Information Sources Map.

92

see related
NOMENCLATURE
SUBJECT HEADINGS
X METATHESAURUS
X UMLS

DIRLINE Update

The DIRLINE file was updated in March 1992. NLM has taken over the maintenance and updating

of the former National Referral Center (NRC) subfile of the Library of Congress; the value in the Secondary Source ID (SI) field for these records is now NLM. The NLM subfile will contain descriptions of information resources in the entire spectrum of biomedicine. Out-of-scope and duplicate records have been removed and, consequently, there are now 13,500 records in DIRLINE, substantially fewer than the 18,649 there previously. NLM will be adding new records to this subfile, so please send recommendations for additions (or deletions) to:

DIRLINE Project Manager
Specialized Information Services
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

Please try to include an address and telephone number so the organization or resource may be contacted.

The HCTA (Health Care Technology Assessment) subfile of DIRLINE is now called HSRI (Health Services Research Information).

Gene Symbol (GS) Field Searching: Automatic MeSH Mapping Restored

The introduction of the Gene Symbol field to various MEDLARS databases created some complications for searchers as explained in the Search Hints article on pages 78-79 of the January-February 1992 *Technical Bulletin*. In brief, the Gene Symbol field was automatically checked for a match, if a search term was entered without qualification. For example, entering the term for (as in '1 and not for') would lead to multi-meaning messages requiring the searcher to choose 'for' as a language vs. 'for' as a gene symbol. And some expected mappings to MeSH headings did not happen because the term entered (such as ARC) matched an existing value in the GS field, so the system would not continue on and retrieve the

MeSH heading. In the case of ARC, citations were retrieved on the gene symbol ARC and no mapping to and retrieval on the MeSH heading AIDS-RELATED COMPLEX occurred. This somewhat confusing situation has been resolved by removing Gene Symbol from the fields that are automatically searched for a match, when a term is entered without qualification. As of May 1, 1992, in order to retrieve a gene symbol you must type the character string qualified with (gs). Therefore, typing ARC will retrieve ARC only as a MeSH heading, typing ARC (gs) will retrieve the 4 citations containing ARC as a value in the Gene Symbol field.

1992 Tumor Key

The 1992 Tumor Key is now available from NTIS; the full title is: TECHNICAL NOTES: MEDLARS INDEXING INSTRUCTIONS, TUMOR KEY SUPPLEMENT, 1992. The order number is: PB92-129972. Prices for hardcopy and microfiche are listed below:

Hardcopy	\$19.00 (U.S./Canada/Mexico) \$38.00 (other countries)
Microfiche	\$9.00 (U.S./Canada/Mexico) \$18.00 (other countries)

There is a \$3.00 (U.S./Canada/Mexico) shipping and handling charge required for each order (\$4.00 for other countries). Please send remittance with orders to:

National Technical Information Service (NTIS)
5285 Port Royal Road
Springfield, VA 22161
1-800-553-6847 or 703-487-4650 (for VA callers)
(for telephone orders with deposit account or credit card)

Hospital Literature Index

The American Hospital Association (AHA) Resource Center announces the availability of the first 1992 quarterly issue of Hospital Literature Index, Volume 48, Number 1. The American Hospital Association and the National Library of Medicine (NLM) cooperate to produce Hospital Literature Index (HLI) from NLM's HEALTH database. HLI is the primary guide to literature on hospital and other health facility administration, including health systems, health planning and research, and the administrative aspects of health services delivery.

Beginning with 1992 issues, AHA has enhanced the value of Hospital Literature Index to subscribers through modification of the HLI print strategy, which determines the subject headings under which retrieved citations will print. Formerly, citations retrieved for HLI printed under all subject headings to which they were indexed, whether starred in HEALTH or not, provided the subject headings matched those on a selected subset of MeSH headings—the HLI print list. Beginning with this issue, retrieved citations print only under subject headings from the HLI print list that are their central points—that is, subject headings that are starred in HEALTH. This has two immediate values for those who use HLI: 1) you are directed only to articles whose main points are the subject headings under which you search; and 2) your search is more efficient, because the same citation will no longer repeat under numerous aspects of one subject heading. At the same time, AHA has expanded the HLI print list to allow for the inclusion of additional subject headings and subheadings in HLI. The American Hospital Association is confident that these improvements will make Hospital Literature Index a more concise and targeted bibliographic research tool for searchers in the field of health care delivery.

Hospital Literature Index is available for purchase from the American Hospital Association. It is issued quarterly, with the last quarterly issue integrated into an annual hardbound cumulation. Appendix A of this issue contains ordering information.

Grateful Med Handling Fee Discontinued

The \$3.00 handling fee charged by NTIS on orders of Grateful Med and the computer assisted instruction (CAI) products is being discontinued. The CAI products include the MEDTUTOR, CHEMLEARN, TOXLEARN and ELHILL LEARN package and the TIP files Demo disk. This change was implemented in March 1992 for the current Macintosh version of Grateful Med and will

begin with Version 6.0 of Grateful Med for IBM compatibles, scheduled for release in June 1992. The change is also effective immediately for the CAI products.

NTIS will automatically refund any handling fee directly to the user if that fee is sent in with the order. The \$3.00 handling charge still applies to all printed publications. If there is a "mixed" order of publications and the above-mentioned software products, then the handling fee will apply.

MEDLINE and MeSH Pocket Cards Enclosed

Enclosed please find the MEDLINE and MeSH pocket cards. They have been revised for the 1992 system.

Continued from page 1

ETHICS, MEDICAL in her search. In the interest of conserving space and trees, her strategy is not being reprinted here. Although most of the submitted strategies were run against the BIOETHICS file, none of those entries was sufficiently comprehensive to be awarded a prize. All of the strategies did retrieve a sufficient number of relevant citations to meet the criteria of the contest. Duede Chiang of Norris Medical Library merits an honorable mention for her search in BIOETHICS.

The most important point of this exercise is: to be truly comprehensive, it would be necessary to run this search in both the BIOETHICS and the HEALTH PLANNING & ADMINISTRATION file. There is surprisingly little overlap in the citations retrieved from the two databases. And it is necessary to formulate your search strategy differently for each database because the BIOETHICS file is indexed with Keywords as well as MeSH headings. The BIOETHICS database is in the process of being updated with the current MeSH vocabulary, so the Gold Standard strategy in that database will not be published in this issue, but will appear in the May-June issue of the *Technical Bulletin* instead.

Once again, thanks to all who submitted entries and thank you for the kind comments about how much you enjoy this feature. The topic for the next Gold Standard Search is:

How to deal with the violent patient.

Please keep your retrieval to the most recent 50 or fewer citations. Results will be published in the July-August 1992 *Technical Bulletin*. Entries must be received by June 20, 1992 to be considered.

If you mail us a copy of your search strategy with a printout of citations and abstracts and 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 first one to arrive across the editor's desk is the prize winner.

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.

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 using Grateful Med to:

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

SS 1 /C?

USER:

file health

PROG:

YOU ARE NOW CONNECTED TO THE HEALTH PLANNING & ADMIN (1975 FORWARD)
FILE.

SS 1 /C?

USER:

exp *organ transplantation or *organ procurement

PROG:

SS (1) PSTG (3937)

SS 2 /C?

USER:

*health care rationing or *health policy or *ethics, medical

PROG:

SS (2) PSTG (10741)

SS 3 /C?

USER:

1 and 2

PROG:

SS (3) PSTG (171)

SS 4 /C?

USER:

3 and united states (px)

PROG:

TIME OVFLW: CONT? (Y/N)

USER:

y

PROG:

SS (4) PSTG (81)

SS 5 /C?

USER:

4 and 92 (yr) or 4 and 91 (yr) or 4 and 90 (yr) or 4 and 89 (yr)

PROG:

TIME OVFLW: CONT? (Y/N)

USER:

y

PROG:

SS 5 PSTG (39)

Figure 1 - Gold Standard Search in Health Planning & Administration File

SS 6 /C?

USER:

prt ti

PROG:

1

TI - Directed donation. The relevance of race.

2

TI - Perspectives. Transplants: limited resources, unlimited need.

3

TI - Cost-effectiveness of liver transplantations—how to apply the results in resource allocation.

4

TI - Organ donation and transplantation: an ethical analysis.

5

TI - Ethical considerations and controversies in transplantation.

6

TI - Organ transplants: deciding who lives, who dies and who pays.

7

TI - Matchmaker, find me a match.

8

TI - Are new proposals to increase organ donations ethical?

9

TI - Determining a patient's suitability for cardiac transplantation [see comments]

10

TI - Suggested means for improving organ donation raises ethical concerns.

11

TI - Lifestyle choices and medical technology: allocating organ transplants.

12

TI - Alcoholics and liver transplantation. The Ethics and Social Impact Committee of the Transplant and Health Policy Center.

13

TI - The diffusion of organ transplantation in Western Europe.

14

TI - Ethical questions in organ transplantation still not answered.

15

TI - Increasing the supply of organs for transplantation: the role of ethics and law.

Figure 1 - Gold Standard Search in Health Planning & Administration File cont.

- 16
TI - The use of anencephalic organs: historical and ethical dimensions.
- 17
TI - A review of public policies to procure and distribute kidneys for transplantation.
- 18
TI - The point system for organ distribution.
- 19
TI - Waiting in line: should selected patients ever be moved up?
- 20
TI - Ethical criteria for procuring and distributing organs for transplantation.
- 21
TI - The economics and ethics of markets for human organs.
- 22
TI - The distribution of renal transplants—are physicians just?
- 23
TI - Organ retrieval from infants with anencephaly.
- 24
TI - How can one balance duty to all cultures and ethnic groups with effective procurement and equitable distribution of organs for clinical transplantation? New evidence of the key importance of local primacy for a successful organ donation effort.
- 25
TI - The power of the individual's story [comment]
- 26
TI - Feeling good about recycled hearts [comment]
- 27
TI - The transplant odyssey [comment]
- 28
TI - Transplants: are they worth it?
- 29
TI - Opting-in versus opting-out: an organ procurement dilemma.
- 30
TI - The use of fetal and anencephalic tissue for transplantation.
- 31
TI - Brain life, brain death, fetal parts.

Figure 1 - Gold Standard Search in Health Planning & Administration File cont.

- 32
TI - Procurement and allocation policies: should receiving depend on willingness to give?

- 33
TI - Equity, efficacy, and the point system for transplant recipient selection.

- 34
TI - Organ transplants: the just and human expectations of nonresidents.

- 35
TI - Nonresident aliens and access to organ transplant.

- 36
TI - Equity in organ distribution: a plea for a return to reality.

- 37
TI - Problems in the policies and criteria used to allocate organs for transplantation in the United States.

- 38
TI - Fetal tissue transplants: law & ethics maze.

- 39
TI - Anencephalic infants: life expectancy and organ donation.

Figure 1 - Gold Standard Search in Health Planning & Administration File cont.

ChemID File Rebuilt

The ChemID file was rebuilt on February 19, 1992 and now contains 267,994 substance records, a substantial increase. The major additions are data from EINECS, the European Inventory of New or Existing Chemical Substances, as well as new NLM-generated data.

SUPERLIST Updated

The SUPERLIST data have been updated. New lists have been added (including the Clean Air Act, GRAS, and PAFA), and state regulatory lists have been taken out of ChemID pending further study. For a full description of all Lists, at the user prompt type "(no) list and description" to retrieve the 19 descriptive records, and then "PRINTDL" to display them.

Locators Updated

All Locators have been updated in ChemID, and the descriptive data from the MeSH file which were recently added to the CC and NO fields of CHEMLINE have also been added to ChemID.

Embedded Molecular Formulas Searchable

The capability to search embedded Molecular Formulas is also now available in ChemID. For more information on searching embedded Molecular Formulas see pages 34-36 of the July - August 1990 *Technical Bulletin*, which describes the introduction of this feature in CHEMLINE.

File Maintenance Using Revised Publication Type (PT) Definitions

As noted, on page 4, in the November-December 1991 issue of the *Technical Bulletin*, a new Publication Type (PT) PRACTICE GUIDELINE was introduced into the MEDLINE database in 1992 and the definition of GUIDELINE (PT) (introduced in 1991) was revised. These actions were taken in response to work that NLM is doing with the Agency for Health Care Policy and Research (AHCPR) as part of NLM's Health Services Research Information Program. The highest priorities of this Program are to enhance NLM's basic services to provide better coverage of the field of health services research and to promote use of these services.

AHCPR is the federal agency charged with facilitating the development, review, and dissemination of clinical practice guidelines. NLM's introduction of the two guideline publication types was designed to assist AHCPR in this process and to help MEDLARS users to access guidelines developed by AHCPR and other public and private organizations.

Since the NLM/AHCPR collaboration began in 1990, AHCPR has assisted NLM in identifying materials already in the NLM collection that meet

the revised definitions of GUIDELINE or PRACTICE GUIDELINE. Accordingly, NLM has made the unusual (but not unprecedented) decision to apply retrospectively the 1992 PRACTICE GUIDELINE and GUIDELINE publication types to citations in relevant online files.

There are approximately 800 items that were tagged with GUIDELINE following its introduction in 1991 that will be reviewed over the next 4-5 months. This will weed out items that do not meet the revised GUIDELINE definition as well as improve the indexing of applicable items by adding the PRACTICE GUIDELINE publication type. In addition, approximately 300 items suggested by AHCPR and found in MEDLINE (back through MED72) and HEALTH have been modified to include the two guideline publication types. An additional group of 1,200 items is currently under review for possible citation maintenance or addition to the collection. If any are found to meet the revised definitions, file maintenance would likely be accomplished later this year.

For more information on NLM's Health Services Research Information Program write:

Head, Office of Health Services Research
Information
National Library of Medicine
8600 Rockville Pike, Room 1S-33
Bethesda, MD 20894

TOXLINE AND TOXLINE65 REBUILT

TOXLINE and TOXLINE65 have been rebuilt. The 1992 MeSH is now used on both the TOXBIB subfile and that portion of the BIOSIS subfile which has MeSH indexing. In addition, a new version of the TSCATS subfile, containing additional abstracts,

is included in TOXLINE, and the CRISP subfile now includes toxicology research projects for FY 89-91. Because various entry months are assigned during the rebuilding process, TOXLINE users are cautioned not to use Entry Month (EM) retrospectively in searching. The first update of the new file occurred in March, with 9203 as the Entry Month (EM) value. This update included data intended for the February and March updates.

TOXLINE AND TOXLINE65 1992 Sub-file Counts

(These record counts are as of the regeneration and do not include updates from 9203 (EM) forward.)

<u>TOXLINE Record Count</u>		<u>TOXLINE65 Record Count</u>	
TOXBIB	403,712	TOXBIB	380,044
TSCATS	16,311	NIOSH	26,502
BIOSIS	236,555	ANEUPL	1,606
ANEUPL	1,987	EMIC	37,830
EMIC	34,038	ETIC	28,145
ETIC	21,444	CIS	46
EPIDEM	9,082	IPA	67,279
FEDRIP	1,471	PESTAB	22,317
HMTC	4,018	HAPAB	10,856
CIS	10,523	PPBIB	2,368
IPA	93,594	BIOSIS	41
NIOSH	51,087	HEEP	117,881
PESTAB	1,536	NTIS	<u>12,321</u>
PPBIB	140	TOTAL	707,236
HEEP	49,778		
NTIS	56,754		
CRISP	<u>12,811</u>		
TOTAL	1,004,841		

SERIALS UPDATE

INDEXED TITLES UPDATED, JANUARY-FEBRUARY 1992

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

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

TITLES SELECTED FOR INDEXING, JANUARY-FEBRUARY 1992

HLI JOURNAL OF HEALTHCARE QUALITY
J HEALTHC QUAL
14,1992—
NATIONAL ASSOCIATION FOR HEALTHCARE QUALITY
SKOKIE IL UNITED STATES
CONTINUES: JOURNAL OF QUALITY ASSURANCE.
INDEXING BEGAN WITH V16N1,1992.
IN PROCESS
SR0073100 JC: BBO
JOURNAL OF QUALITY ASSURANCE,104 WILMOT
RD.,SUITE 201,DEERFIELD IL 60015-5195

HLI MANAGEMENT AND COMPLIANCE SERIES
MANAG COMPLIANCE SER
1,1987?—
AMERICAN HOSPITAL ASSOCIATION
CHICAGO IL UNITED STATES
SOME VOLS ISSUED IN LOOSELEAF. SOME VOLS
ISSUED IN REVISED EDS.
INDEXING BEGAN WITH V1,1987.
W1 MA57KL
SR0069871 JC: BBR

TITLE CHANGES, JANUARY-FEBRUARY 1992

IM ASAIO JOURNAL
ASAIO J
38,1992?—
LIPPINCOTT
PHILADELPHIA PA UNITED STATES
CONTINUES: ASAIO TRANSACTIONS.
INDEXING BEGAN WITH 38N1,1992.
ON ORDER 1058-2916
SR0073066 JC: BBH

IDL GIORNALE ITALIANO DI ENDODONZIA
G ITAL ENDODONZIA
4N3,1990—
SOCIETA ITALIANA DI ENDODONZIA
VERONA ITALY
CONTINUES: GIORNALE DI ENDODONZIA.
INDEXING BEGAN WITH V5N3,1991.
W1 GI777I
SR0072801 JC: BAP

IM EUROPEAN JOURNAL OF HISTOCHEMISTRY
EUR J HISTOCHEM
N1,1992—
LUIGI PENZIO E FIGLIO EDITORI
PAVIA ITALY
CONTINUES: EUROPEAN JOURNAL OF BASIC
AND APPLIED HISTOCHEMISTRY.
INDEXING BEGAN WITH N1,1992.
ON ORDER
SR0072794 JC: BAL

HLI JOURNAL OF AHIMA
J AHIMA
62N11,NOV 1991—
AMERICAN HEALTH INFORMATION MANAGEMENT
ASSOCIATION
CHICAGO IL UNITED STATES
CALLED ALSO: JOURNAL OF THE AMERICAN
HEALTH INFORMATION MANAGEMENT ASSOCIATION.
CALLED ALSO: JAHIMA. CONTINUES: JOURNAL /
AMERICAN MEDICAL RECORDS ASSOCIATION.
CONTINUED BY: JOURNAL OF HEALTH
INFORMATION MANAGEMENT RESEARCH.
INDEXING BEGAN WITH V62N11,1991.
W1 JO534JF 1060-5487
SR0072929 JC: BBB

TITLE CHANGES, JANUARY-FEBRUARY 1992

- IM MOLECULAR BIOLOGY OF THE CELL
MOL BIOL CELL
3,1992—
AMERICAN SOCIETY FOR CELL BIOLOGY
BETHESDA MD UNITED STATES
CALLED ALSO: MBC. CONTINUES: CELL
REGULATION.
INDEXING BEGAN WITH V3N1,1992.
W1 MO195U 1059-1524
SR0072806 JC: BAU
- IM RHODE ISLAND MEDICINE
R I MED
75,1992—
RHODE ISLAND MEDICAL SOCIETY
PROVIDENCE RI UNITED STATES
CONTINUES: RHODE ISLAND MEDICAL JOURNAL.
INDEXING BEGAN WITH V75N1,1992.
N PROCESS 0363-7913
SR0073013 JC: BBE
- IM ROUMANIAN ARCHIVES OF MICROBIOLOGY AND
IMMUNOLOGY
ROUM ARCH MICROBIOL IMMUNOL
50,1991?—
CANTACUZINO INSTITUTE, R.A.
BUCHAREST ROMANIA
CONTINUES: ARCHIVES ROUMAINES DE
PATHOLOGIE EXPERIMENTALE ET DE
MICROBIOLOGIE.
INDEXING BEGAN WITH V50N1,1991.
ON ORDER
SR0072802 JC: BAQ
- IM SCANDINAVIAN JOURNAL OF PLASTIC AND
RECONSTRUCTIVE SURGERY AND HAND SURGERY.
SUPPLEMENTUM
SCAND J PLAST RECONSTR SURG HAND SURG
SUPPL
21,1990—
ALMQVIST AND WIKSELL
STOCKHOLM SWEDEN
CONTINUES: SCANDINAVIAN JOURNAL OF PLASTIC
AND RECONSTRUCTIVE SURGERY.
SUPPLEMENTUM.
INDEXING BEGAN WITH N21,1990.
N PROCESS 0346-6612
SR0072809 JC: BAS

TITLES NO LONGER INDEXED AS OF JANUARY-FEBRUARY 1992

- IM CELLULE
CELLULE
1,1884-74,1987
VANDER PUBLISHERS
LOUVAIN BELGIUM
VOL 73 COMPLETE IN THREE ISSUES.
INDEXING FOR ONLINE FILES BEGAN WITH
V65N3,1965.
W1 CE13 0008-8757
C10960000 JC: CQB
- IDL DENTAL MANAGEMENT
DENT MANAGE
1,1961-31,1991
HARCOURT BRACE JOVANOVICH. MEDICAL
PUBLICATIONS DIVISION
DULUTH MN UNITED STATES
ABSORBED DENTAL TEAM IN 1974.
INDEXING BEGAN WITH 5N5,MAY 1965.
W1 DE261 0011-8680
D04440000 JC: E1C
- HLI CONSULTANT
CONSULTANT
1,1961—
CLIGGOTT PUBLISHING CO
GREENWICH CT UNITED STATES
ISSUES FOR 1961-62 HAVE NO VOL. NUMBERING
BUT CONSTITUTE V. 1-2.
INDEXING BEGAN WITH V28N1,1988 AND CEASED
WITH V31N12,DEC 1991.
W1 CO752 0010-7069
C46100000 JC: CST
- IM DIMENSIONS IN HEALTH SERVICE
HLI DIMENS HEALTH SERV
51,1974-68N7,OCT 1991
CANADIAN HOSPITAL ASSOCIATION
OTTAWA CANADA
CONTINUES: CANADIAN HOSPITAL. VOL. 61 NO.
10,OCT 1984 MISNUMBERED VOL. 61 NO. 9, OCT
1984. BEGINNING WITH VOL. 64, NO. 5, JUNE
1987- SOME ISSUES INCLUDE: SURVEILLANCE
ISSN 0833-7926), WHICH IS PUBLISHED BOUND
INSIDE ISSUES OF THE MAIN TITLE. MERGED
WITH: HOSPITAL TRUSTEE, TO FORM:
LEADERSHIP IN HEALTH SERVICES.
W1 DI593 0317-7645
D10960000 JC: E9N

TITLES NO LONGER INDEXED AS OF JANUARY-FEBRUARY 1992

- HLI FRONTIERS IN AGING SERIES
FRONT AGING SER
1,1980-8,1988
HUMAN SCIENCES PRESS
NEW YORK NY UNITED STATES
INDEXING BEGAN WITH V1,1980.
W1 FR945T 0271-955X
F14190000 JC: EYV
- IM GASTROENTEROLOGISCHES JOURNAL
GASTROENTEROL J
49N1,1989-51,1991
JOHANN AMBROSIUS BARTH
LEIPZIG GERMANY
ORGAN DER GESELLSCHAFT FUR
GASTROENTEROLOGIE DER DDR. CONTINUES:
DEUTSCHE ZEITSCHRIFT FUR VERDAUUNGS- UND
STOFFWECHSELKRANKHEITEN.
W1 GA457KH 0863-1743
SR0066060 JC: AFF
- IM GEGENBAURS MORPHOLOGISCHES JAHRBUCH
GEGENBAURS MORPHOL JAHRB
31,1903-136,1990
AKADEMISCHE VERLAGSGESELLSCHAFT GEEST AND
PORTIG KG
LEIPZIG GERMANY
PUBLICATION SUSPENDED 1945-49. CONTINUES
MORPHOLOGISCHES JAHRBUCH.
W1 GE107 0016-5840
G03160000 JC: FKF
- IDL GEORGETOWN UNIVERSITY SCHOOL OF DENTISTRY
MIRROR
GEORGETOWN UNIV SCH DENT MIRROR
45N2,1981-52?,1988
GEORGETOWN UNIVERSITY SCHOOL OF DENTISTRY
WASHINGTON DC UNITED STATES
CONTINUES GEORGETOWN DENTAL JOURNAL .
THIS TITLE IS NOT IN THE NLM COLLECTION.
ADA 0016-8084
G05230000 JC: FNT
- HLI HEALTHCARE BOTTOM LINE
HEALTHC BOTTOM LINE
3N5,JUN 1986—
WILLIAM O. CLEVERLEY
COLUMBUS OH UNITED STATES
CONTINUES: HOSPITAL BOTTOM LINE, WHICH IS
NOT IN THE NLM COLLECTION. NLM COLLECTS
V6N1,1989-
INDEXING BEGAN WITH V6N1,FEB 1989 AND
CEASED WITH V8N10,DEC 1991.
W1 HE303G
SR0066457 JC: AGR
- HLI HEALTHCARE TRENDS AND TRANSITION
HEALTHC TRENDS TRANSIT
1N1,DEC 1989—
NEX INC
SALISBURY MD UNITED STATES
UNCATALOGED SERIAL RECORD.
INDEXING BEGAN WITH V1N1,DEC 1989 AND
CEASED WITH V2N6,MAY 1991.
W1 HE608W 1047-7276
SR0069707 JC: AZY
- HLI HOSPITAL REVENUE REPORT
HOSP REVENUE REP
8N9,SEP 1990—
UNITED COMMUNICATIONS GROUP
BETHESDA MD UNITED STATES
FORMED BY THE UNION OF: PART A NEWS, AND:
HEALTH CARE MARKETER.
INDEXING CEASED WITH DEC 2,1991 ISSUE.
W1 HO876N 1052-8733
SR0069306 JC: AXD
- HLI HOSPITAL TRUSTEE
HOSP TRUSTEE
1N1,MAY 1977-15N5,SEP/OCT 1991
CANADIAN HOSPITAL ASSN
OTTAWA CANADA
2 ISSUES ONLY PUBLISHED IN 1977 (1 AND 2).
5 ISSUES ONLY PUBLISHED IN 1978. MERGED
WITH: DIMENSIONS IN HEALTH SERVICE, TO
FORM: LEADERSHIP IN HEALTH SERVICES.
INDEXING BEGAN WITH V1N1, MAY 1977.
W1 HO894D 0704-0407
H20360000 JC: DM1
- IM JAPANESE JOURNAL OF EXPERIMENTAL MEDICINE
JPN J EXP MED
7N1,NOV 10,1928-60N6,DEC 1990
INSTITUTE OF MEDICAL SCIENCE, THE
UNIVERSITY OF TOKYO
TOKYO JAPAN
PUBLICATION SUSPENDED 1941-49. CONTINUES
SCIENTIFIC REPORTS FROM THE GOVERNMENT
INSTITUTE FOR INFECTIOUS DISEASES OF THE
TOKYO IMPERIAL UNIVERSITY, WHICH IS NOT IN
THE NLM COLLECTION.
INDEXING BEGAN WITH V35N3,JUN 1965.
W1 JA952 0021-5031
J04820000 JC: KJR

TITLES NO LONGER INDEXED AS OF JANUARY-FEBRUARY 1992

- IM MOLECULAR BIOLOGY AND MEDICINE
MOL BIOL MED
1N1,JUL 1983-8N2,APR 1991
ACADEMIC PRESS
LONDON ENGLAND
NOT PUBLISHED IN 1985. VOLUME 5 (1988)
COMPLETE IN THREE ISSUES.
INDEXING BEGAN WITH V1N1,1983.
W1 MO195P 0735-1313
M43250000 JC: MOL
- INI NASU SUTESHON
NASU SUTESHON
1,1971-20,1990
NASU SUTESHON
TOKYO JAPAN
INDEXING BEGAN WITH V16N1,1986.
W1 NA198J 0387-351X
N01740000 JC: NQU
- HLI PART B NEWS
PART B NEWS
1N1,MAY 1987—
UNITED COMMUNICATIONS GROUP
BETHESDA MD UNITED STATES
ISSUES FOR DEC. 4, 1989?- INCLUDE
SUPPLEMENT: PART B NEWS. SPECIAL REPORT.
MONTHLY 1987-1990. 24 TIMES A YEAR, 1991-

INDEXING BEGAN WITH V1N1,1989 AND CEASED
WITH V5N24,1991.
W1 PA864Q 0893-8121
SR0066500 JC: AHE
- POP RESEARCH IN REPRODUCTION
RES REPROD
1,1969-22,1990
INTERNATIONAL PLANNED PARENTHOOD FEDERATION
LONDON ENGLAND
INDEXING BEGAN WITH V2N2,MAR 1970.
W1 RE227L 0034-5253
R25480000 JC: R6Z

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MAY-JUNE 1992

No. 266

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TRIFACTS - A New TOXNET File

Philip Wexler

Division of Specialized Information Services, NLM

TRIFACTS (Toxic Chemical Release Inventory Facts) is the newest file to join the TOXNET system. TRIFACTS supplements the environmental release data in the TRI (Toxic Chemical Release Inventory) series of files, with information related to the health and ecological effects, and safety and handling of the TRI chemicals. There is a TRIFACTS record for most of the TRI chemicals.

TRIFACTS grew out of the State of New Jersey's Hazardous Substance Fact Sheets. New Jersey was required to develop these Fact Sheets for all chemicals on its Right to Know Hazardous Substance List, in order to comply with the New Jersey Worker and Community Right to Know Act. Designed for a lay audience, they present scientifically accepted information without the technical jargon. The United

Continued on page 5



MEDLARS® DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL® COMPUTER				
AIDSDRUGS	143		20 JUN 92	
AIDSLINE™**	65,817	JAN 80-AUG 92	27 JUN 92	9208(EM)
AIDSTRIALS	409		27 JUN 92	
AVLINE®	23,890	THROUGH 1992	27 JUN 92	
BIOETHICS®	35,199	JAN 73-JUN 92	06 JUN 92	9206(EM)
BIOTECHSEEK	2,241	JAN 90-JUL 92	06 JUN 92	9207(EM)
CANCERLIT®	885,262	JAN 63-JUN 92	06 JUN 92	9206(EM)
CATLINE®	695,558	THROUGH 1992	27 JUN 92	
CHEMID	267,994		22 FEB 92	
CHEMLINE®	1,102,090		29 FEB 92	9202(EM)
DENTALPROJ	786		02 MAY 92	
DIRLINE®	13,954		09 MAY 92	
DOCUSER	13,093		27 JUN 92	
HEALTH	612,793	JAN 75-JUL 92	06 JUN 92	9207(EM)
HISTLINE®	105,449		27 JUN 92	9206(EM)
MEDLINE®*	1,190,818	JAN 89-AUG 92	27 JUN 92	9208(EM)
MED86	1,009,364	JAN 86-DEC 88	27 JUN 92	
MED83	892,034	JAN 83-DEC 85	07 MAR 92	
MED80	803,673	JAN 80-DEC 82	16 MAY 92	
MED77	776,481	JAN 77-DEC 79	13 MAY 92	
MED72	1,176,178	JAN 72-DEC 76	06 JUN 92	
MED66	1,312,492	JAN 66-DEC 71	13 JUN 92	
MESH VOC®	83,173	1992	27 JUN 92	
NAME AUTH®	374,553		20 JUN 92	
PDQ®		THRU JUN 92	02 JUN 92	
POPLINE	190,152	1970-JUN 92	06 JUN 92	9206(EM)
SDILINE®	33,008	JUL 92	27 JUN 92	9208(EM)
SERLINE®	78,791	1992	06 JUN 92	
TOXLINE®	1,061,941	1981-1992	13 JUN 92	9206(EM)
TOXLINE65	707,236	PRE 1965-1980	07 MAR 92	
TOXLIT™	1,054,821	1981-1992	13 JUN 92	9206(EM)
TOXLIT65	586,405	1965-1980	01 SEP 87	
*N.B. FILE IS UPDATED WEEKLY; THIS IS PART 4 OF 4.				
**N.B. FILE IS UPDATED WEEKLY; THIS IS PART 4 OF 5.				
TOXNET® COMPUTER				
CCRIS	3,567		10 JUN 92	
DART™	12,474		17 JUN 92	
DBIR™	1,903		03 JUN 92	
EMICBACK	71,871		08 JUL 90	
ETICBACK	49,593		08 JUL 90	
GENE-TOX	2,919		15 JUN 92	
HSDB®	4,316		06 JUN 92	
IRIS	604		12 JUN 92	
RTECS®	114,247		19 MAY 92	
TRI87	80,130		30 MAR 92	
TRI88	86,416		31 MAR 92	
TRI89	85,430		24 APR 92	
TRI 90	83,407		10 APR 92	
TRIFACTS	326		10 APR 92	

Head, MMS: Carolyn B. Tilley
 Co-Editor: Toby G. Port
 Co-Editor: Mary Herron
 Technical Notes Editor: Sara Tybaert
 (800) 638-8480

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TECHNICAL NOTES

ANNOUNCING AVAILABILITY OF NEW ONCOLOGY OVERVIEWS

Five new titles in the National Cancer Institute ONCOLOGY OVERVIEWS series were recently published. ONCOLOGY OVERVIEWS are specialized bibliographies with abstracts, each referencing 200-600 recent publications on a clinical cancer topic of high current interest, drawn from over 4000 sources. Leading researchers in the field covered by each OVERVIEW review and select the most relevant and significant abstracts for each topic. This peer-review selection process results in a tightly focused quick reference to the most recent cancer literature. Five new clinical OVERVIEWS are published each year.

The following are the new ONCOLOGY OVERVIEWS:

- The Cell Cycle in Cancer Prognosis
- Antiangiogenesis: A Potential Therapeutic Strategy
- Current Management of Childhood Leukemia
- Therapeutic Use of Interleukin-2
- Childhood Brain Tumors

The order form to obtain these publications is in Appendix A in the back of this issue.

GRATEFUL MED VERSION 6.0 FOR IBM AND IBM COMPATIBLES AVAILABLE JUNE 1992

Grateful Med Version 6.0 updates were mailed out beginning on May 18. Users who purchased a previous version of Grateful Med will automatically be sent Version 6.0 if they returned the pink registration card included with the software in

Version 5.0. Users who did not return that card may call NTIS at 800-553-6847 and personnel there will assist them.

For those who wish to purchase Grateful Med for the first time the Version 6.0 software is \$29.95 including shipping. The order number is: PB92-105444. The \$3.00 per order handling fee has been discontinued by NTIS for NLM computer software products only. Users planning to purchase the software with a credit card may use 800-553-6847 to phone in their orders. The software may be ordered with a check or purchase order (purchase orders require an additional payment of \$7.50) from:

National Technical Information Service
7285 Port Royal Road
Springfield, VA 22161

GRATEFUL MED FOR THE MAC VERSION 1.5

For those interested in ordering Grateful Med Version 1.5 for the Macintosh, the price is \$29.95 including shipping and the order number is: PB92-105451. Please note that this is a change from the order number for the Grateful Med Version 1.5 used previously. Do not be confused if there is a different order number on other Grateful Med documentation for the MAC version. NTIS knows that both numbers apply to this same product. As with other NLM software products distributed by NTIS, the \$3.00 per order handling fee has been discontinued.

REVISED TRI REFERENCE GUIDE

The revised (April 1992) TRI Reference Guide is available at no charge by sending a self-addressed mailing label (no postage is necessary) to:

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

You may also request single copies of the following TOXNET documentation. Please send a self-addressed label (no postage is necessary) to the above address and indicate which documents you are requesting.

TOXNET: A Brief Guide to Searching its Files
(August 1991)

TOXNET Reference Guide (February 1991)

HSDB Reference Guide (November 1987)

IRIS Reference Guide (July 1990)

RTECS Reference Guide (December 1987)

CCRIS Reference Guide (June 1986) (Under
Revision)

BIOETHICS REGENERATION

The BIOETHICS file was regenerated in May 1992. The BIOETHICS file has undergone three changes. First, the file has been updated with 1992 MeSH. Second, 12 new keywords have been introduced. Third, the file can be searched using pre-explodes. The July-August 1992 *Technical Bulletin* will contain an article describing the changes in detail.

NLM Toll-Free ("1-800") Access

To comply with federal regulations, toll-free (no local network phone numbers) access to NLM databases will be provided by AT&T effective September 30, 1992. NLM toll-free ("1-800") access now provided by CompuServe, Telenet (SprintNet), and Tymnet will be discontinued at that time. All toll-free users will receive individual notification including the new phone numbers and procedures.

Continued from page 1

States EPA (Environmental Protection Agency), through an agreement with New Jersey, has adapted these Fact Sheets for this online database of summary health effects information for the TRI chemicals. Also incorporating EPA-generated ecological data, these Fact Sheets constitute TOXNET's TRIFACTS file. The Unit Record appears in Figure 1. An explanation of the data element nomenclature is provided in Figure 1A.

A link is being built from TOXNET's TRI menus to TRIFACTS. This will enable menu users to search for information in TRI and display TRIFACTS data on the chemicals retrieved. Users should also note that TRIFACTS now joins HSDB, RTECS, CCRIS, IRIS, and GENETOX, in the RN-linked CROSSFILE group. The TRIFACTS file may be selected from the TOXNET menu displayed after logging in or 'file trifacts' may be typed at any USER: prompt. TRIFACTS search examples are shown in Figures 2-4.

TRIFACTS UNIT RECORD		
0.		** ADMINISTRATIVE INFORMATION
	TRIFN	TRIFACTS Number
	DATE	Last Revision Date
	UPDT	Update History
	RLEN	Record Length
1.	ID	** SUBSTANCE IDENTIFICATION
	NAME	Name of Substance
	RN	CAS Registry Number
	SY	Synonyms
	SHPN	Shipping Name/Number
	ASCH	Associated Chemicals
	CLIST	Lists Citing Chemical
2.	CPP	** CHEMICAL & PHYSICAL PROPERTIES
	SOLW	Solubility in Water
	FLPT	Flash Point
	VAP	Vapor Pressure
	OCPP	Other Chemical/Physical Properties
3.	SAFE	** SAFETY & HANDLING
	NFPA	NFPA Hazard Classification
	DOT	DOT Emergency Guidelines
	FIRE	Fire Hazard Information
	WRNP	Warning Properties/Determining Exposure

Figure 1 - TRIFACTS Unit Record

	EQU*	Protective Equipment & Clothing
	CLOTH	Clothing
	EYEPR	Eye Protection
	RESPR	Respiratory Protection
	REDEX	Reducing Exposure
	WORKC	Workplace Controls
	WORKP	Work Practices
	STRG	Storage Conditions and Handling
	CLUP	Cleanup Methods
4.	TOXB	** TOXICITY/BIOMEDICAL EFFECTS
	TOXS	Toxicity Summary
	EMT*	Emergency Medical Treatment
	EYE	Eye Contact
	SKIN	Skin Contact
	BRTH	Breathing
	ANTR	Antidote and Emergency Treatment
	HTOX*	Human Toxicity
	ACUTE	Acute Effects
	CANC	Cancer Hazard
	REPRO	Reproductive Effects
	OLONG	Other Long-Term Effects
	COMEX	Combined Exposures
	CWEX	Conditions Made Worse by Exposure
	MEDS	Medical Surveillance & Testing
5.	ECO	** ECOLOGICAL DATA
	ECOS	Ecological Summary
	EOCA	Acute Ecological Effects
	ECOC	Chronic Ecological Effects
	FATE	Environmental Fate
	BIOC	Bioconcentration
6.	EXSR	** EXPOSURE STANDARDS & REGULATIONS
	OSHA	OSHA Standards
	NREC	NIOSH Recommendations
	TLV	Threshold Limit Value
	OEXP	Other Exposure Information

Figure 1 - TRIFACTS Unit Record Cont.

**	CATEGORY	Organizes headers and data fields. Associated with a double asterisk.
*	HEADER	Organizes data fields. Associated with a single asterisk.
	FIELD	The basic data element. Not associated with a special character. All data elements in TRIFACTS other than categories and headers are fields.

Figure 1A - TOXNET Data Element Nomenclature in the Unit Record

<p>[TRIFACTS] SS 1 /cf? USER: benzene (name)</p> <p>Search in progress</p> <p>SS (1) PSTG (1)</p>	<ul style="list-style-type: none"> • Select TRIFACTS from the TOXNET menu or type file trifacts at any TOXNET user prompt to access the file. • Retrieves the record for benzene.
<p>[TRIFACTS] SS 2 /cf? USER: all carcinogen: or all cancer:</p> <p>Search in progress</p> <p>SS (2) PSTG (325)</p>	<ul style="list-style-type: none"> • Searches for the truncated terms.
<p>[TRIFACTS] SS 3 /cf? USER: 1 and 2</p> <p>Search in progress</p> <p>SS (3) PSTG (1)</p>	<ul style="list-style-type: none"> • Because 1 record is retrieved, the benzene record contains one or more of the terms searched for in SS 2.

Figure 2 - TRIFACTS Search - Is benzene considered a cancer-causing agent?

[TRIFACTS] SS 4 /cf?

USER:

prt canc hits cont

- Displays the CANC field for the retrieved record for benzene, as well as any other fields that contain the terms in SS 2.

1 - TRIFACTS
 NAME - Benzene
 RN - 71-43-2

CANC -

- ** Benzene is a CARCINOGEN in humans. It has been shown to cause leukemia.
- * Many scientists believe there is no safe level of exposure to a carcinogen.

SY - Benzene

CLIST-it is on the Special Health Hazard Substance List because it is a CARCINOGEN, a MUTAGEN and is FLAMMABLE.

HAZT -

Hazard Rating	NFPA
FLAMMABILITY	3
REACTIVITY	0

CARCINOGEN

CONTAINERS MAY EXPLODE IN FIRE
 POISONOUS GAS IS PRODUCED IN FIRE

Hazard Rating Key: 0=minimal; 1=slight; 2=moderate; 3=serious; 4=severe

TOXS - Benzene is a CARCINOGEN HANDLE WITH EXTREME CAUTION.

CANC -

- * Benzene is a CARCINOGEN in humans. It has been shown to cause leukemia.
- * Many scientists believe there is no safe level of exposure to a carcinogen.

OEXP -

- * Benzene is a CANCER CAUSING AGENT in humans. There may be no safe level of exposure to a carcinogen, so all contact should be reduced to the lowest possible level.
- * Exposure limits in this record are for air levels only. Skin contact may also cause overexposure.

Figure 2 - TRIFACTS Search - Is benzene considered a cancer-causing agent? cont.

[TRIFACTS] SS 1 /cf?

USER:

lead (name)

Search in progress

SS (1) PSTG (1)

[TRIFACTS] SS 2 /cf?

USER:

prt emt cont

- Displays the Emergency Medical Treatment data from the retrieved Lead record.

1 - TRIFACTS

NAME - Lead

RN - 7439-92-1

EYE -

- * Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting upper and lower lids.

SKIN -

- * Remove contaminated clothing. Wash contaminated skin with soap and water.

BRTH - ND

ANTR -

- * Persons with significant Lead poisoning are sometimes treated with EDTA while hospitalized. Since this drug causes a rush of Lead from body organs into the blood and kidneys and thus has its own hazards, it must be done only by experienced medical persons under careful observation. It or other "chelating" drugs should never be used to prevent poisoning while exposures continues or without strict exposure control as severe kidney damage can result.

Figure 3 - TRIFACTS search — What emergency medical treatment is advised for lead exposure?

[TRIFACTS] SS 1 /cf?

USER:

arsenic trioxide (name)

Search in progress

SS (1) PSTG (1)

[TRIFACTS] SS 2 /cf?

USER:

prt eco cont

- Displays the category for Ecological Data from the retrieved Arsenic Trioxide record.

1 - TRIFACTS

NAME - Arsenic Trioxide

RN - 1327-53-3

ECOS -

Arsenic is a naturally occurring element which is used to make glass, cloth, and electrical semiconductors. It is also commonly used in fungicides, wood preservatives, growth stimulants for plants and animals, and in veterinary uses. Arsenic enters the environment mainly from its use as a pesticide and from emissions from coal-fueled power plants.

EOCA -

Acute toxic effects may include the death of animals, birds, or fish, and death or low growth rate in plants. Acute effects are seen two to four days after animals or plants come in contact with a toxic chemical substance.

Arsenic metabolism and effects are significantly influenced by the animal/plant tested, the route of administration, the physical and chemical form of the arsenical, and the dose. Inorganic arsenic compounds are more toxic than organic arsenic compounds.

Arsenic has high acute toxicity to aquatic life, birds, and land animals. Except where soil arsenic content is high (around smelters and where arsenic-based pesticides have been used heavily), arsenic does not accumulate in plants to toxic levels. Where soil arsenic content is high, growth and crop yields can be decreased.

ECOC -

Chronic toxic effects may include shortened lifespan, reproductive problems, lower fertility, and changes in appearance or behavior. Chronic effects can be seen long after first exposure(s) to a toxic chemical.

Arsenic has high chronic toxicity to aquatic life, and moderate chronic toxicity to birds and land animals.

FATE -

Arsenic is highly persistent in water, with a half-life of more than 200 days. The half-life of a pollutant is the amount of time it takes for one-half of the chemical to be degraded.

BIOC -

Some substances increase in concentration, or bioaccumulate, in living organisms as they breathe contaminated air, drink contaminated water, or eat contaminated food. These chemicals can become concentrated in the tissues and internal organs of animals and humans. The concentration of arsenic found in fish tissues is expected to be somewhat higher than the average concentration of arsenic in the water from which the fish was taken.

Figure 4 - TRIFACTS search — What are some ecological effects of arsenic trioxide?

Gold Standard Searches

The Gold Standard Search request published in the November-December 1991 issue of the *Technical Bulletin* was:

Criteria for the allocation of scarce organs (e.g., kidney, heart) for transplantation within the United States.

There was one winner, Nancy K. Nagy of Kaiser Permanente Medical Center, Martinez CA, and her search strategy (for the HEALTH PLANNING & ADMINISTRATION file) was published in the March-April 1992 issue of the *Technical Bulletin*. Most of the strategies submitted were created for the BIOETHICSLINE file, but none of the strategies for BIOETHICSLINE was sufficiently comprehensive to be awarded a prize.

At the time of publication of the March-April issue, the BIOETHICS database was in the process of being updated with the current MeSH vocabulary. The Gold Standard search strategy for the BIOETHICS database was delayed until this issue, so the search results would reflect the updated vocabulary.

One of the main points of this exercise was that to be truly comprehensive, it would be necessary to run this search in both the BIOETHICS and the HEALTH PLANNING & ADMINISTRATION files. There is surprisingly little overlap in the citations retrieved from the two databases. And, it is necessary to formulate your search strategy differently for each database because the BIOETHICS file is indexed with Keywords (KW) as well as MeSH headings. The Bioethics Thesaurus which lists the vocabulary used to index this database

(and the related MeSH headings) is published annually and is available for \$10.00 from the:

Bioethics Information Retrieval Project
Kennedy Institute of Ethics
Georgetown University
Washington, DC 20057-1065
1-800-MED-ETHX

However, if you do not have this publication on hand and you need to run a search, you can make liberal use of the NEIGHBOR command to see the Keywords and MeSH headings used in this file.

The following points should be noted when comparing search strategies in the two databases.

- In the BIOETHICS file, you would NOT use the term ETHICS, MEDICAL unless you were looking for citations on the field of medical ethics. All citations in this file are presumably about some aspect of medical ethics.
- There are some Keyword headings that have no exact equivalent in MeSH such as SELECTION FOR TREATMENT. This concept is included in (and maps to) the broader MeSH heading HEALTH CARE RATIONING. However, a search in BIOETHICSLINE may be more precisely defined by using the Keyword headings available from the Bioethics Thesaurus.
- In order to keep retrieval below 50 citations the years were limited to 1990-1992 in BIOETHICS. In file HEALTH, retrieval from 1989-1992 stayed below 50 citations.

What follows on the next page in Figure 1 is the Gold Standard search strategy for the BIOETHICS file.

SS 1 /C?

USER:

file bioethics

PROG:

YOU ARE NOW CONNECTED TO THE BIOETHICS (1973 FORWARD) FILE.

SS 1 /C?

USER:

nbr organ transplantation

PROG:

SELECT	# POSTINGS	TERM
.	.	.
3	1448	ORGAN TRANSPLANTATION (MH)
4	1448	ORGAN TRANSPLANTATION (KW)
5	1448	ORGAN TRANSPLANTATION (KWD)

.

UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:

sel 4

PROG:

SS (1) PSTG (1448)

- Because the postings for the MH and KW are the same, you could select either one and get the same results. The KW postings include KWD, KWI and KWP. See page 45 of the Jan-Feb 1992 *Technical Bulletin* for details.

SS 2 /C?

USER:

nbr resource allocation

PROG:

SELECT	# POSTINGS	TERM
6	3051	RESOURCE (TW)
7	3018	RESOURCE (KF)
8	649	RESOURCE ALLOCATION (SJ)
9	3015	RESOURCE ALLOCATION (KW)
10	3015	RESOURCE ALLOCATION (KWD)

UP N OR DOWN N OR ENTER A SELECT COMMAND.

- The SJ field is used in the hard copy publication of the Bibliography of Bioethics and can be ignored in online searching.

USER:

sel 9

PROG:

SS (2) PSTG (3015)

SS 3 /C?

USER:

nbr health care rationing

Figure 1 - Gold Standard Search for the BIOETHICS file

PROG:

SELECT	# POSTINGS	TERM
11	1	HEALTH CARE FOR WOMEN INTERNATIONAL (TJ)
12	3	HEALTH CARE MANAGEMENT REVIEW (TJ)
13	3925	HEALTH CARE RATIONING (MH)
14	1	HEALTH CARE RESEARCH CENTRE (KW)
15	1	HEALTH CARE RESEARCH CENTRE (KWI)

UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:

sel 13

PROG:

SS (3) PSTG (3925)

SS 4 /C?

USER:

2 or 3

PROG:

SS (4) PSTG (3925)

SS 5 /C?

USER:

1 and 4 and united states (px)

PROG:

SS (5) PSTG (320)

SS 6 /C?

5 and 92 (yr) or 5 and 91 (yr) or 5 and 90 (yr)

PROG:

SS (6) PSTG (35)

SS 7 /C?

prt ti, so

- Printed below are a selection of the citations retrieved. They were chosen to illustrate the variety of sources uniquely available in this file; citation numbers have been omitted.

PROG:

TI - Origins of the Medicare kidney disease entitlement: the Social Security Amendments of 1972.
 SO - <In:> Hanna, Kathi E., ed.; Institute of Medicine. Committee to Study Biomedical Decision Making. Biomedical Politics. Washington: National Academy Press; 1991: 176-214.

TI - Biomedical Politics.
 SO - Washington: National Academy Press; 1991. 352 p.

TI - A rational approach to liver transplantation for the alcoholic patient. [Editorial].
 SO - Psychosomatics. 1990 Summer; 31(3): 241-254.

TI - Biomedical ethics.
 SO - <In:> Graham, Loren, ed. Science and the Soviet Social Order. Cambridge, Mass.: Harvard University Press; 1990: 195-224, 398-402.

Figure 1 - Gold Standard Search for the BIOETHICS file cont.

- TI - Medical Technology and Society: An Interdisciplinary Perspective.
SO - Cambridge, Mass.: MIT Press; 1990. 571 p.
- TI - The morality of transplantation. [Letters and responses].
SO - Journal of the American Medical Association. 1991 Jul 10; 266(2): 213-214.
- TI - Ethical decisions in the history of organ transplantation.
SO - Annals of Surgery. 1990 May; 211(5): 505-520.
- TI - Heads, feds, and beds: ethical dilemmas in the delivery of medical care.
SO - Business and Professional Ethics Journal. 1990 Fall-Winter; 9(3-4): 84-94.
- TI - The allocation of scarce medical resources.
SO - New York State Journal of Medicine. 1990 Nov; 90(11): 552-558.
- TI - Cost per life: \$22,000.
SO - New York Times. 1991 Mar 8: A29.
- TI - Who Lives? Who Dies?: Ethical Criteria in Patient Selection.
SO - New Haven, Conn.: Yale University Press; 1990. 359 p.
- TI - Organ transplantation: who decides?
SO - Social Work. 1990 Jul; 35(4): 322-327.
- TI - The view from the trenches.
SO - Sh'ma: A Journal of Jewish Responsibility. 1990 Nov 16; 21(401): 3-4.

Figure 1 - Gold Standard Search for the BIOETHICS file cont.

CHEMLINE File Regeneration

In June 1992, the CHEMLINE file was regenerated with new data. The file contains over 1,100,000 records of chemicals of biomedical interest. In the process, new and updated data from Chemical Abstracts Service (CAS) were used to update all CAS Registry Numbers and the Systematic Name (N1) and Synonym (SY) fields. For the first time CAS provided file Locators, using data supplied to them by NLM. Users will find that Locator file names are now sorted alphabetically, both in the Locator (LO) field, and in the Locators which qualify some Registry Numbers in the Other Registry Number (ON) field.

As usual, NLM augmented the basic data from CAS with a variety of names and other data taken from a number of non-royalty sources. The Name of Substance (NM) field was updated with the more

important names for a given substance, the Classification Code (CC) field was also updated, and the Related Registry Number (RR) field was completely rebuilt.

A new type of CAS Registry Number field, the Component Registry Number (RC), has been added to the file for the first time to over 20,000 selected mixture records. This field contains CAS generated data which leads users from the record of a chemical mixture to its components. As shown in Figure 1, in the record for "Cif Combi" (the mixture of DDT and Parathion), the RN field is followed by the new RC fields. Each Registry Number displayed in the RC field retrieves a record when entered in CHEMLINE. The two RC values shown in Figure 1 would retrieve the parent DDT record (50-29-3) and the Parathion record (56-38-2). A user would thus be able to find additional data within the MEDLARS system pertinent to the toxicity of "Cif Combi".

```
SS 1 /C?  
USER:  
cif combi  
PROG:  
SS (1) PSTG (1)  
  
SS 2 /C?  
USER:  
prt dl  
PROG:  
  
1  
RN - 8003-93-8  
RC - 50-29-3  
RC - 56-38-2  
MF - C14-H9-Cl5.C10-H14-N-O5-P-S  
N1 - Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester, mixt. with  
1,1'-(2,2,2-trichloroethylidene)bis(4-chlorobenzene) (9Cl) [MF2]  
SY - Didifos 50 (8Cl) [CAS]  
SY - Cif Combi [CAS]  
NR - 1  
RS - 6  
RE - C6  
LO - TOXLIT  
LO - TOXLIT65  
EM - 9205
```

Figure 1 - CHEMLINE Record with the new RC field

Search Hint: Using the TREE Command with MeSH Headings Ending in Numbers

[Editors Note: The TREE command is used in databases that employ the MeSH vocabulary to show the hierarchical position of the specified term within the MeSH tree structures. Entering TREE MeSH heading at any USER prompt (i.e., TREE NEOPLASMS) will retrieve a display of:

1. The term itself or of the preferred MeSH heading. For example, if you enter TREE cancer (cancer is an entry term that maps to the MeSH heading NEOPLASMS) you will get the same display as if you enter TREE NEOPLASMS.
2. The general term under which it is indented.
3. Any more specific terms which are subordinate to the term entered.

The MeSH tree number will be printed next to each term displayed; a plus sign following a tree number indicates that there are more subordinate terms indented underneath that term. For more information on the MeSH tree structures see the [Online Services Reference Manual 6.2.4.](#)]

The TREE command does not work with MeSH headings that end in one or more digits. The original programming for ELHILL assumed that all MeSH headings would be composed of alphabetic character strings and would not end with numbers. This has proven not to be true and has created a problem in trying to find the tree numbers for some terms while online. You can get around this problem in a variety of ways. In some cases, you can disguise the number at the end of a term with a # (pound) sign. Another option may be to truncate a term before the final digit with a : (colon). Or you may choose to check the heading in the [Annotated MeSH](#) for data form entries or cross references that don't end in numbers and therefore may be successfully used with the TREE command. Figure 1 illustrates a case where a term was TREEd by disguising the final digit with a #. Figure 2 illustrates using the TREE command and truncating a term with a : to disguise the final digit. Figure 3 shows using an alternative entry term obtained from the [Annotated MeSH](#).

<pre>SS 1 /C? USER: complement 1 PROG: SS (1) PSTG (98)</pre>	<ul style="list-style-type: none"> • MeSH heading retrieves postings.
<pre>SS 2 /C? USER: tree complement 1 PROG: 'COMPLEMENT 1.' IS NOT A MESH MAIN HEADING.</pre>	<ul style="list-style-type: none"> • TREE command does not recognize MeSH heading.
<pre>SS 2 /C? USER: tree complement # PROG: MM (Complement 1) (2) 1 D12.776.124.486.274.50 2 D24.611.333.50 SPECIFY NUMBERS, ALL, OR, NONE-</pre>	<ul style="list-style-type: none"> • Disguising the final digit with the # sign allows TREE command to work.

Figure 1 - Using the TREE Command by truncating the MeSH heading with a # sign

```

USER:
all

PROG:

Complement D12.776.124.486.274
  Complement 1 D12.776.124.486.274.50
    Complement 1q D12.776.124.486.274.50.270
    Complement 1r D12.776.124.486.274.50.280
    Complement 1s D12.776.124.486.274.50.290

Complement D24.611.333
  Complement 1 D24.611.333.50
    Complement 1q D24.611.333.50.270
    Complement 1r D24.611.333.50.280
    Complement 1s D24.611.333.50.290
    .
    .
    .
    .
    
```

- The display continues and offers the options to view the trees for additional headings to such as Complement 2 through Complement 9.

Figure 1 - Using the TREE Command by truncating the MeSH heading with a # sign cont.

```

SS 1 /C?
USER:
chromosomes, human, pair 1

PROG:
SS (1) PSTG (590)

SS 2 /C?
USER:
tree chromosomes, human, pair 1

PROG:
'CHROMOSOMES, HUMAN, PAIR 1.' IS NOT A MESH MAIN HEADING.

SS 2 /C?
USER:
tree all chromosomes, human, pair :

PROG:

Chromosomes, Human, 1-3 A11.223.475.480.235
  Chromosomes, Human, Pair 1 A11.223.475.480.235.240
    
```

- MeSH heading retrieves postings.
- TREE command does not recognize MeSH heading.
- Truncating with a : finds the tree number for Pair1, and the next nine pairs with "1" as the first digit will also display as shown below. The "all" command allows the user to avoid a multi-meaning message.

Figure 2 - Using the TREE command by truncating the MeSH heading with a : (colon)

Chromosomes, Human, 6-12 A11.223.475.480.325
 Chromosomes, Human, **Pair 10** A11.223.475.480.325.350

Chromosomes, Human, 6-12 A11.223.475.480.325
 Chromosomes, Human, **Pair 11** A11.223.475.480.325.355

Chromosomes, Human, 6-12 A11.223.475.480.325
 Chromosomes, Human, **Pair 12** A11.223.475.480.325.360

Chromosomes, Human, 13-15 A11.223.475.480.370
 Chromosomes, Human, **Pair 13** A11.223.475.480.370.375

Chromosomes, Human, 13-15 A11.223.475.480.370
 Chromosomes, Human, **Pair 14** A11.223.475.480.370.380

Chromosomes, Human, 13-15 A11.223.475.480.370
 Chromosomes, Human, **Pair 15** A11.223.475.480.370.385

Chromosomes, Human, 16-18 A11.223.475.480.415
 Chromosomes, Human, **Pair 16** A11.223.475.480.415.420

Chromosomes, Human, 16-18 A11.223.475.480.415
 Chromosomes, Human, **Pair 17** A11.223.475.480.415.425

Chromosomes, Human, 16-18 A11.223.475.480.415
 Chromosomes, Human, **Pair 18** A11.223.475.480.415.430
 VOCABULARY FILE ERROR: TERM IS MULTIPLY POSTED.

Note: After 10 items have been displayed, the VOCABULARY FILE ERROR message will print and no more terms will be displayed. In order to see the tree number for Chromosomes, Human, Pair 19, it's necessary to consult the printed Annotated MeSH. However, if you wish to see the tree numbers for Chromosomes, Human, Pair 20 (and up) TREE the term truncated after the two (i.e., TREE chromosome, human, pair 2:)

Figure 2 - Using the TREE command by truncating the MeSH heading with a : (colon) cont.

SS 1 /C?

USER:

hiv-2

PROG:

SS (1) PSTG (591)

- MeSH heading retrieves postings.

SS 2 /C?

USER:

tree hiv-2

PROG:

'HIV-2.' IS NOT A MESH MAIN HEADING.

- TREE command does not recognize MeSH heading.

SS 2 /C?

USER:

tree all htlv-iv

- Check HIV-2 in Annotated MeSH to obtain the alternate entry term htlv-iv and tree that heading instead. Use TREE ALL to avoid receiving the multi-meaning (mm) message.

PROG:

HIV B4.909.777.731.505.490

HIV-2 B4.909.777.731.505.490.410

HIV B4.909.777.731.589.350

HIV-2 B4.909.777.731.589.350.410

Figure 3 - Using the TREE command with a cross reference (entry term) obtained from the Annotated MeSH

Search Hint: Searching on the Concept Sexual Harassment

The topics of sexual and other types of harassment are appearing with increasing frequency in the journal literature. Articles about this subject are being indexed with the MeSH heading SEX BEHAVIOR. The simplest method of searching for this concept is to coordinate SEX BEHAVIOR with the truncated Text Word **harass:**. Although the scope note for SEX BEHAVIOR does not exactly fit sexual harassment, it is the closest term available at present; SEXUAL HARASSMENT will be added to the 1993 MeSH vocabulary.

In addition to the MeSH heading SEX BEHAVIOR, articles on this topic will be indexed with other

headings including but not limited to: AGGRESSION; or STRESS, PSYCHOLOGICAL; or SOCIAL DOMINANCE; or INTERPERSONAL RELATIONS; or EMPLOYEE GRIEVANCES, depending on the subjects covered in the article being indexed. Other possible coordinations include HUMAN RIGHTS (or one of the indented terms in the RIGHTS tree).

Do NOT search for sexual harassment in MEDLINE with the MeSH heading SEX OFFENSES. You will find a few citations indexed with this heading in addition to SEX BEHAVIOR, but this term is now reserved for actions which may lead to criminal prosecution. When searching the Backfiles, before this policy was implemented, it is advisable to use Text Word searching to find this concept, since no single MeSH heading was applied uniformly to articles on this subject in the older files. Figure 1 illustrates a sample search for sexual harassment.

WELCOME TO THE NATIONAL LIBRARY OF MEDICINE'S ELHILL SYSTEM.
YOU ARE NOW CONNECTED TO THE MEDLINE (1989 - 92) FILE.

SS 1 /C?

USER:

sex behavior

PROG:

SS (1) PSTG (2224)

SS 2 /C?

USER:

(tw) all harass: and 1

PROG:

SS (2) PSTG (31)

SS 3 /C?

USER:

prt 5 ti, mh

Figure 1 - MEDLINE search on Sexual Harassment

PROG:

1

- TI - Sexual harassment. Unacceptable advances.
- MH - Employment/*LEGISLATION & JURISPRUD
- MH - Female
- MH - Great Britain
- MH - Human
- MH - *Labor Unions
- MH - *Prejudice
- MH - ***Sex Behavior**

2

- TI - Stopping sexual harassment [editorial]
- MH - *Dental Staff
- MH - Female
- MH - Human
- MH - *Interpersonal Relations
- MH - Male
- MH - ***Sex Behavior**

3

- TI - Sexual harassment in academia: legal and administrative challenges [see comments]
- MH - Aggression
- MH - Education/LEGISLATION & JURISPRUD
- MH - Education, Nursing/LEGISLATION & JURISPRUD/ORGANIZATION & ADMIN
- MH - Employee Grievances/*LEGISLATION & JURISPRUD
- MH - Human
- MH - Interprofessional Relations
- MH - Nurse Administrators/STANDARDS
- MH - Organizational Policy
- MH - Role
- MH - Schools, Nursing/*ORGANIZATION & ADMIN
- MH - ***Sex Behavior**
- MH - United States

4

- TI - Sexual harassment: unsettled topography [editorial]
- MH - Aggression
- MH - *Communication
- MH - Employee Grievances/*LEGISLATION & JURISPRUD
- MH - Female
- MH - Human
- MH - Male
- MH - ***Sex Behavior**

5

- TI - Sexual harassment [letter]
- MH - Female
- MH - Human
- MH - Interpersonal Relations
- MH - Public Policy
- MH - ***Sex Behavior**
- MH - Societies

Figure 1 - MEDLINE search on Sexual Harassment cont.

Automatic SDI Service: Naming STORESEARCHes

We would like to remind all command language searchers that there are a few special conventions that must be followed when naming STORESEARCHes for Automatic SDI Service.

- The first four characters of an Automatic SDI STORESEARCH name **MUST** consist of the database identifying letter immediately followed by a three-digit print range number.
- Special characters such as punctuation or the words **AND** or **OR** in a STORESEARCH name may cause your search to fail to execute or may adversely affect retrieval.
- The Searchname may be no more than 30 characters, counting spaces including the four initial characters that identify the database and print format.

The Automatic SDI Request Form, which appeared on pages 27-28 (Appendix J) of the January-February

1992 *Technical Bulletin*, shows the listing of database identifying letters and related print range numbers.

Examples of correctly named STORESEARCHes are:

```
S600 BREAST NEOPLASMS
S704 SMITH KIDNEY FAILURE
A192 ANTHONY DRUG THERAPY
```

Examples of incorrectly named STORESEARCHes are:

```
S 701 BRIAN: NEOPLASMS
S100 JONES AND BRAIN
H225 DOE ANTINEOPL:
```

Remember that STORESEARCHes are not stored immediately, but are processed overnight following each business day, Monday-Friday, excluding government holidays. Searchers are encouraged to verify STORESEARCH transactions online on the next day. To do this, access the file your strategy will be run in (at least one day after entering the STORESEARCH strategy) and enter the command **DISPLAY** with the name of the STORESEARCH as shown below in Figure 1.

```
SS 1 /C?
USER:
file sdi
PROG:
YOU ARE NOW CONNECTED TO THE SDILINE (LATEST FULL MEDLINE MONTH) FILE.
```

```
SS 1 /C?
USER:
display s001 heart disease
```

(If the search has been successfully stored, then you will see the search strategy displayed.)

Figure 1 - Displaying a STORESEARCH strategy

More detailed instructions concerning STORESEARCHes and Automatic SDI Service can be found in the [Online Services Reference](#)

[Manual](#), Chapter 5, Section 5.2. If you have any questions, or need assistance, please call the MEDLARS Service Desk at 1-800-638-8480.

Using Grateful Med Version 6.0 in a Public Access Area

An article on coming attractions in Grateful Med Version 6.0 in the September-October 1991 *Technical Bulletin* highlighted the return of SETUP to the ACTION screen. This feature will make it simpler for the user to change a phone number or check his/her User ID code and password. However, a librarian who oversees the use of Grateful Med in a public access area, pointed out that with the return of SETUP to the ACTION menu, anyone could gain easy access to the User ID code and password information.

If you have Grateful Med installed in a public area and you wish to **prevent** user access to SETUP, the following modifications may be made to the Grateful Med SETUP file:

1. Complete installation of Grateful Med Version 6.0 following the instructions given in the User's Guide, Part 7.
2. Rename the GM6 file SETUP.EXE to CHANGE.EXE. At the DOS prompt in your GM6 subdirectory, use the DOS "rename" command:

```
C:\GM6> REN SETUP.EXE CHANGE.EXE
```

CHANGE.EXE is given as an example. You may assign any name within DOS conventions. However, the new file name **MUST** include the .EXE extension.

3. Optional Step for Color Monitors: Enable Opening Draw Screen (under MEDLINE/SETUP, Other Options) to prevent the program from returning to DOS.

4. To access the renamed SETUP file, type the new file name at the DOS prompt in your GM6 subdirectory, e.g.:

```
C:\GM6> CHANGE
```

5. Be sure to save all changes made to SETUP (CHANGE) by using the END key to return to the GM6 subdirectory DOS prompt. Type SEARCH to get to the Grateful Med search program.

SETUP will remain as a choice on the ACTION screen. However, if a user selects SETUP, QUIT (Exit to DOS), or presses the Escape key, an error message will be displayed:

```
GRATEFUL MED CANNOT FIND THE SETUP PROGRAM.
```

```
CONSULT YOUR USER'S GUIDE FOR INSTALLATION INSTRUCTIONS.
```

Pressing any key at this point returns Grateful Med to the draw screen, if this option was enabled. To return to DOS from the draw screen, press Cntl-C.

Be sure to document the new SETUP file name to permit authorized staff to review or modify communications parameters and other option settings when necessary.

Special note to all librarians and health information professionals using Grateful Med Version 6.0 in a public access areas: **WE VALUE YOUR EXPERIENCE!** Please call us at the MEDLARS Service Desk (1-800-638-8480) with your comments and concerns, or use the "Comments" card in the back of the User's Guide.

PRINTGROUPS and SHAREGROUPS in TOXNET

Philip Wexler
Division of Specialized Information Services, NLM

PRINTGROUPS (PRTGRP) and SHAREGROUPS (SHRGRP) in TOXNET are clusters of data elements which you define and name, and which you can then use repeatedly for different searches. For example, if you run a variety of searches on HSDB, but repeatedly display the fields USE, HTOX, NTOX, NTP, IARC, ENV5, ENVT, and RTEX, you can define a PRTGRP or SHRGRP called, say ENVIROTOX, with the PROFILE MODIFY command. ENVIROTOX will then become part of

your user "profile". By simply typing the command PRT ENVIROTOX for any subsequent search, data from all these fields will be displayed. PRTGRPs are defined by individual user codes while SHRGRPs allow more than one user code to access the same defined printgroup.

PRINTGROUPS

To create a PRINTGROUP, first type PROFILE MODIFY PRTGRP. You will then be prompted for a PRTGRP NAME. After entering a name of your choice, you are prompted for the data element mnemonics to include within the PRTGRP. Figure 1 demonstrates how you would create the ENVIROTOX PRTGRP mentioned above.

[HSDB] SS 1/cf?

USER:
profile modify prtgrp

ENTER PRTGRP NAME

USER:
envirotox

ENTER MNEMONICS. PRESS <RETURN> TO STOP

USER:
use, htox, ntox, ntp, iarc, envs, envt, rtx

USER:
<RETURN>

- User presses enter/return key again to signal completion of PRTGRP.

PRTGRP: ENVIROTOX
USE, HTOX, NTOX, NTP, IARC, ENV5, ENVT, RTEX
ADD, DELETE or EXIT?

USER:
exit

- User completes the PRTGRP by typing "exit".

OK? (YES/NO/CANCEL)

USER:
y

LIST ALL PRINT GROUPS FOR ACCOUNT "USER NAME"? (y/n)

USER:
y

- Type "y" to display the data elements that will be printed at the command PRT ENVIROTOX.

GROUP: ENVIROTOX
USE, HTOX, NTOX, NTP, IARC, ENV5, ENVT, RTEX
PROFILE COMPLETED

Figure 1 - Creating a PRINTGROUP called envirotox

You have now created the PRTGRP named ENVIROTOX and can use it in your current or future search sessions with a PRINT command just as if it were any other data element mnemonic. Typing PRT ENVIROTOX would display data from all the defined data elements. You may view all your PRTGRPs by typing PROFILE LIST PRTGRP. You may modify an existing PRINTGROUP by typing PROFILE MODIFY PRTGRP, entering the PRTGRP name, and then specifying which fields are to be added or deleted. To delete an entire PRINTGROUP, again type PROFILE MODIFY PRTGRP and, in response to the prompt, ENTER PRTGRP NAME, type the NAME followed by a slash (/) and the word "delete" (e.g., envirotox/delete). PRTGRPs can be used in the CROSSFILE mode, but be sure to specify the file/field mnemonic combination when you create them (e.g., HSDB/NTOX, RTECS/RSTU).

PRINTGROUPS are an efficient way to save and print repeatedly the same set of data fields. Although there is no limit to the number of PRINTGROUPS you may define, it is a good idea to periodically review them and delete those no longer needed.

SHAREGROUPS

In response to a suggestion from a HAZMAT team, the SHAREGROUP feature was recently

implemented. The SHAREGROUP (SHRGRP) is essentially a printgroup that can be used by more than one user code. It is useful in large or geographically dispersed organizations where different individuals may be doing the same kinds of searching and where printgroups could become part of a common pool. A fire department, for instance, might use this approach in creating SHAREGROUPS related to chemical emergency response.

Users need to contact TOXNET administration to specify which user codes should have access to SHAREGROUPS. You may communicate with a TOXNET representative by using the COMMENT command; calling 301-496-6531; or writing to:

TOXNET Representative
SIS/NLM
8600 Rockville Pike
Bethesda, MD 20894.

For example, an organization might wish its codes ABC01, ABC02, ABC07, and ABC08, all to have access to its SHAREGROUP named EMERGENCY. Creating the actual SHAREGROUP is analogous to the process of creating PRINTGROUPS outlined earlier. An example appears in Figure 2.

```
[HSDB] SS 1/cf?  
USER:  
prof mod shrgrp  
  
ENTER SHRGRP NAME OR "COPY" OR "EXIT"  
USER:  
emergency  
  
ENTER MNEMONICS. PRESS <RETURN> to STOP  
USER:  
dot, flmt, firp, expl, clup, disp  
  
USER:  
<RETURN>
```

Figure 2 - Creating a SHAREGROUP called emergency

```

SHRGRP: EMERGENCY
ADD, DELETE or EXIT?
USER:
exit
OK? (YES/NO/CANCEL)
USER:
yes
LIST ALL SHARED PRINT GROUPS? (Y/N)
USER:
no

```

Figure 2 - Creating a SHAREGROUP called emergency cont.

You will notice that after entering PROF MOD SHRGRP above, you are given the option to "COPY". If you select this option, you can copy an existing personal PRINTGROUP into a SHAREGROUP. To modify or delete share groups, type PROFILE MODIFY SHRGRP and use the same approach as outlined for PRINTGROUPS earlier. If you happen to have a personal PRTGRP with the same name as a SHRGRP, say EMERGENCY, to which you have access, you may differentiate the shared one from the personal group by prefacing its name with "S." (That's S followed

by a period.) To display data using your PRTGRP, you would type PRT EMERGENCY. To display data using the SHRGRP, you would type PRT S.EMERGENCY.

PRINTGROUPS were designed to simplify the recurrent display of data from many different fields and SHAREGROUPS take the idea one step further, by allowing more than one user code, at different sites, to display, simultaneously if need be, the same clusters of data fields. They are also valuable for one individual using multiple codes.



Figure 2 - Creating a SHAREGROUP called emergency

SERIALS UPDATE

INDEXED TITLES UPDATED, MARCH-APRIL 1992

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

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

TITLES SELECTED FOR INDEXING, MARCH-APRIL 1992

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>INI BEGINNINGS
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1,1981?—
AMERICAN HOLISTIC NURSES ASSOCIATION
RALEIGH NC UNITED STATES
NLM COLLECTS FROM 1992.
INDEXING BEGAN WITH V11N8, SEP 1991.
ON ORDER
SR0052764 JC: BF8</p> | <p>IM CLINICAL JOURNAL OF PAIN
CLIN J PAIN
1N1,1985—
RAVEN PRESS
NEW YORK NY UNITED STATES
INDEXING BEGAN WITH V5N1,1989.
W1 CL724 0749-8047
SR0052104 JC: BEG</p> |
| <p>BTC BIODEGRADATION
BIODEGRADATION
1,1990—
KLUWER ACADEMIC
DORDRECHT NETHERLANDS
INDEXING BEGAN WITH V1N1,1990.
W1 B1662S 0923-9820
SR0066390 JC: BGF
KLUWER ACADEMIC PUBLISHERS GROUP,P.O.
BOX 322,3300 AH DORDRECHT,THE NETHERLANDS</p> | <p>IM CRITICAL REVIEWS IN EUKARYOTIC GENE
EXPRESSION
CRIT REV EUKARYOT GENE EXPR
1N1,1990—
CRC PRESS
BOCA RATON FL UNITED STATES
INDEXING BEGAN WITH V1N1,1990.
W1 CR216ZBE 1045-4403
SR0066700 JC: BEJ</p> |
| <p>BTC BIOSEPARATION
BIOSEPARATION
1N1,MAY 1990—
KLUWER ACADEMIC PUBLISHERS
DORDRECHT NETHERLANDS
INDEXING BEGAN WITH V1N1,MAY 1990.
W1 B1915W 0923-179X
SR0066121 JC: BGH</p> | <p>IDL DIAMOND
DIAMOND
1N1,SPRING/SUMMER 1991—
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PHILADELPHIA PA UNITED STATES
INDEXING BEGAN WITH V1N1,SPRING/SUMMER
1991.
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SR0072759 JC: BGZ</p> |
| <p>INI BULLETIN / AMERICAN ASSOCIATION FOR THE
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BULL AM ASSOC HIST NURS
N1,FALL 1982—
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NURSING
WASHINGTON DC UNITED STATES
FIRST ISSUE UNNUMBERED.
INDEXING BEGAN WITH SPRING 1991.
W1 BU478HA 0898-6622
SR0056842 JC: BGQ</p> | <p>IM DRUGS AND AGING
DRUGS AGING
1,1991—
ADIS INTERNATIONAL
MAIRANGI BAY NEW ZEALAND
AUCKLAND
INDEXING BEGAN WITH V1N1,JAN 1991.
W1 DR458 1170-229X
SR0068848 JC: BEK
ADIS INTERNATIONAL,SUITE B-30,OXFORD
COURT BUSINESS CENTER,582 MIDDLETOWN
BLVD,LANGHORNE PA 19047</p> |

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- IM GLYCOBIOLOGY
GLYCOBIOLOGY
1N1,SEP 1990—
IRL PRESS AT OXFORD UNIVERSITY PRESS
OXFORD ENGLAND
VOL. 1 CONSIST OF SIX ISSUES.
INDEXING BEGAN WITH V1N1,SEP 1990.
W1 GL364 0959-6658
SR0069056 JC: BEL
OXFORD UNIVERSITY PRESS,PINKHILL
HOUSE,SOUTHFIELD ROAD,EYNHAM,OXFORD
OX81JJ,ENGLAND
- IM HISTOLOGY AND HISTOPATHOLOGY
HISTOL HISTOPATHOL
1N1,JAN 1986—
GUTENBERG
MURCIA SPAIN
INDEXING BEGAN WITH V1N1,JAN 1986.
W1 HI77D 0213-3911
SR0054104 JC: BEM
- IM JOURNAL OF THE AMERICAN OPTOMETRIC
ASSOCIATION
J AM OPTOM ASSOC
2,1930—
AMERICAN OPTOMETRIC ASSOCIATION
ST. LOUIS MO UNITED STATES
CONTINUES AOA ORGANIZER.
INDEXING FOR ONLINE FILES BEGAN WITH
V36N9,SEP 1965.
W1 JO909Y 0003-0244
J11960000 JC: H82
- NOTE: THIS TITLE WAS PREVIOUSLY IM. INDEXING CEASED
AFTER V6IN12, 1990 BUT HAS NOW RESUMED AND ALL
ISSUES FROM V62, 1991 FORWARD ARE CURRENTLY BEING
INDEXED.
- IM JOURNAL OF THE ASSOCIATION FOR ACADEMIC
MINORITY PHYSICIANS
J ASSOC ACAD MINOR PHYS
1,1989—
ASSOCIATION FOR ACADEMIC MONORITY
PHYSICIANS
BROOKLYN NY UNITED STATES
COVER TITLE: JAAMP. OFFICIAL PUBLICATION
OF THE ASSOCIATION FOR ACADEMIC MINORITY
PHYSICIANS.
INDEXING BEGAN WITH V1N1,1989.
W1 JO912B 1048-9886
SR0070863 JC: BGE
- IM JOURNAL OF CARDIAC SURGERY
J CARD SURG
1N1,MAR 1986—
FUTURA PUBLISHING
MOUNT KISCO NY UNITED STATES
INDEXING BEGAN WITH V1N1,MAR 1986.
W1 JO574P 0886-0440
SR0055850 JC: BEN
- IM JOURNAL OF LEUKOCYTE BIOLOGY. SUPPLEMENT
J LEUKOC BIOL SUPPL
1,1990—
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INDEXING BEGAN WITH V1,1990.
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- IM JOURNAL OF MAGNETIC RESONANCE IMAGING
J MAGN RESON IMAGING
1N1,JAN/FEB 1991—
SOCIETY FOR MAGNETIC RESONANCE IMAGING
CHICAGO IL UNITED STATES
INDEXING BEGAN WITH V1N1,JAN-FEB 1991.
W1 JO748DEL 1053-1807
SR0070198 JC: BEO
- IM JOURNAL OF SPINAL DISORDERS
J SPINAL DISORD
1N1,1988—
RAVEN PRESS
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INDEXING BEGAN WITH V1N1,1988.
W1 JO902P 0895-0385
SR0060830 JC: BEQ
- IM JOURNAL OF VASCULAR AND INTERVENTIONAL
RADIOLOGY
J VASC INTERV RADIOL
1,1990—
SOCIETY OF CARDIOVASCULAR AND
INTERVENTIONAL RADIOLOGY
RESTON VA UNITED STATES
INDEXING BEGAN WITH V1N1,NOV 1990.
W1 JO97BH 1051-0443
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- IM MAMMALIAN GENOME
MAMM GENOME
1,1991—
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W1 MA534P 0938-8990
SR0069338 JC: BES

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- IM MATHEMATICAL BIOSCIENCES
MATH BIOSCI
1,1967—
AMERICAN ELSEVIER
NEW YORK NY UNITED STATES
INDEXING BEGAN WITH V93N1, 1989.
W1 MA959N 0025-5564
M07680000 JC: BET
- IDL NEWSLETTER / INTERNATIONAL ACADEMY OF
PERIODONTOLOGY
NEWSL INT ACAD PERIODONTOL
1N1, JUN 1991—
INTERNATIONAL ACADEMY OF PERIODONTOLOGY
BRISTOL ENGLAND
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- IM NUTRITION
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3N3, MAY/JUN 1987—
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BURBANK CA UNITED STATES
CONTINUES: NUTRITION INTERNATIONAL.
INDEXING BEGAN WITH V5N1, JAN-FEB 1989.
W1 NU861 0899-9007
SR0061261 JC: BEU
- IM OPTOMETRY CLINICS
OPTOM CLIN
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NORWALK CT UNITED STATES
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SOCIETY. SOME ISSUES WITH DISTINCTIVE
TITLES.
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W1 OP935J 1050-6918
SR0069085 JC: BEV
- IM OSTEOPOROSIS INTERNATIONAL
OSTEOPOROS INT
1N1, OCT 1990—
SPRINGER INTERNATIONAL
LONDON ENGLAND
INDEXING BEGAN WITH V1N1, OCT 1990.
W1 OS912L 0937-941X
SR0068468 JC: BE0
- IM PEPTIDE RESEARCH
PEPT RES
1N1, SEP/OCT 1988—
EATON PUBLISHING
NATICK MA UNITED STATES
INDEXING BEGAN WITH V1N1, SEP-OCT 1988.
W1 PE769J 1040-5704
SR0064459 JC: BE1
EATON PUBLISHING, 154 EAST CENTRAL
ST, NATICK MA 01760
- IM PROBLEMS IN VETERINARY MEDICINE
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1N1, JAN/MAR 1989—
LIPPINCOTT
PHILADELPHIA PA UNITED STATES
INDEXING BEGAN WITH V1N1, JAN-MAR 1989.
W1 PR573P 1041-0228
SR0064721 JC: BE2
- IM PROCEEDINGS / THE ... ANNUAL SYMPOSIUM ON
COMPUTER APPLICATIONS IN MEDICAL CARE
PROC ANNU SYMP COMPUT APPL MED CARE
4TH, 1980—
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ELECTRONICS ENGINEERS, 4TH, 1980-13TH,
1989?; AMERICAN MEDICAL INFORMATICS
ASSOCIATION, 14TH, 1990- .
INDEXING BEGAN WITH V15, 1991.
W3 SY508LC 0195-4210
P30870000 JC: BGL
- IM PULMONARY PHARMACOLOGY
PULM PHARMACOL
1,1988—
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EDINBURGH SCOTLAND
INDEXING BEGAN WITH V1N1, 1988.
W1 PU885G 0952-0600
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CHURCHILL LIVINGSTONE MEDICAL
JOURNALS, ROBERT STEVENSON HOUSE, 1-3
BAXTERS PLACE, LEITH WALK, EDINBURGH EH1
3AF, SCOTLAND

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- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>IM
HLI</p> <p>QUALITY ASSURANCE AND UTILIZATION REVIEW
QUAL ASSUR UTIL REV
1N1,FEB 1986—
WILLIAMS AND WILKINS
BALTIMORE MD UNITED STATES
OFFICIAL JOURNAL OF THE AMERICAN COLLEGE
OF
UTILIZATION REVIEW PHYSICIANS.
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W1 QU153KF 0885-713X
SR0056342 JC: QAU</p> | <p>IM</p> <p>TRANSFUSION MEDICINE REVIEWS
TRANSFUS MED REV
1N1,APR 1987—
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PUBLICATION QUARTERLY, V. 2—
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W1 TR228WB 0887-7963
SR0057816 JC: BE5</p> |
| <p>IM</p> <p>REPRODUCTIVE TOXICOLOGY
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1N1,1987—
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REPRODUCTIVE TOXICOLOGY CENTER
ELMSFORD NY UNITED STATES
CONTINUES: REPRODUCTIVE TOXICOLOGY.
FREQUENCY VARIES: QUARTERLY,1987-1990; 6Y,
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INDEXING BEGAN WITH V1N1,1987.
W1 RE213PG 0890-6238
SR0060848 JC: BE4</p> | <p>INI</p> <p>TRENDS IN HEALTH CARE, LAW AND ETHICS
TRENDS HEALTH CARE LAW ETHICS
7N2,WINTER 1992—
UNIVERSITY OF MEDICINE AND DENTISTRY OF
NEW JERSEY, ROBERT WOOD JOHNSON MEDICAL
SCHOOL
PISCATAWAY NJ UNITED STATES
QUARTERLY. CONTINUES: INFO TRENDS.
APPROVED FOR CONTINUING EDUCATION CREDIT
IN CATEGORY 1 FOR THE PHYSICIANS
RECOGNITION AWARD OF THE AMERICAN MEDICAL
ASSOCIATION.
INDEXING BEGAN WITH V7N2,1992.
W1 TR341CHH 1062-5364
SR0073606 JC: BG3</p> |

TITLE CHANGES, MARCH-APRIL 1992

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>IM</p> <p>BACTERIOLOGIA, VIRUSOLOGIA, PARAZITOLOGIA,
EPIDEMIOLOGIA
BACTERIOL VIRUSOL PARAZITOL EPIDEMIOL
35N2,1990—
EDITURA MEDICALA
BUCURESTI ROMANIA
CONTINUES: REVISTA DE IGIENA,
BACTERIOLOGIE, VIRUSOLOGIE, PARAZITOLOGIE,
EPIDEMIOLOGIE, PNEUMOPTIZIOLOGIE.
BACTERIOLOGIA, VIRUSOLOGIA, PARAZITOLOGIA,
EPIDEMIOLOGIA.
INDEXING BEGAN WITH V35N2, APR-JUN 1990.
W1 BA214
SR0073306 JC: BFP</p> | <p>IM</p> <p>EXS
EXS
57,1989—
BIRKHAUSER VERLAG
BASEL SWITZERLAND
SUPPLEMENT TO: EXPERIENTIA. CONTINUES:
EXPERIENTIA. SUPPLEMENTUM.
INDEXING BEGAN WITH V57,1989.
W1 E65
SR0073356 JC: BfZ</p> |
| <p>IDL</p> <p>CLINIC ODONTOLOGIA
CLIN ODONTOL
10N1,FEB 1989?—
GROUPE CDP
PARIS FRANCE
CONTINUES: ODONTOLOGIA.
INDEXING BEGAN WITH V10N1,FEB 1989.
N PROCESS 0998-3392
SR0073730 JC: BHB</p> | <p>IM</p> <p>GESUNDHEITSWESEN
GESUNDHEITSWESEN
54,1992—
GEORG THIEME VERLAG
STUTTGART GERMANY
CONTINUES: OFFENTLICHE GESUNDHEITSWESEN.
INDEXING BEGAN WITH V54N1,1992.
W1 GE9430 0941-3790
SR0073278 JC: BFD</p> |

TITLE CHANGES, MARCH-APRIL 1992

- INT INTENSIVE AND CRITICAL CARE NURSING
INTENSIVE CRIT CARE NURS
8N1,MAR 1992—
CHURCHILL LIVINGSTONE
EDINBURGH SCOTLAND
CONTINUES: INTENSIVE CARE NURSING.
INDEXING BEGAN WITH V8N1,1992.
ON ORDER 0964-3397
SR0073640 JC: BG4
- IM JOURNAL OF ASSISTED REPRODUCTION AND
GENETICS
J ASSIST REPROD GENET
9N1,FEB 1992—
PLENUM PRESS
NEW YORK NY UNITED STATES
BIMONTHLY. CONTINUES: JOURNAL OF IN VITRO
FERTILIZATION AND EMBRYO TRANSFER.
INDEXING BEGAN WITH V9N1,1992.
W1 JO544R 1058-0468
SR0073469 JC: BGI
- IM JOURNAL OF INTELLECTUAL DISABILITY RESEARCH
J INTELLECT DISABIL RES
36PT1,FEB 1992—
BLACKWELL SCIENTIFIC ON BEHALF OF THE ROYAL
SOCIETY FOR MENTALLY HANDICAPPED CHILDREN
AND ADULTS
OXFORD ENGLAND
CONTINUES: JOURNAL OF MENTAL DEFICIENCY
RESEARCH.
INDEXING BEGAN WITH V36PT1,1992.
W1 JO716CE 0964-2633
SR0073417 JC: BGA
- HLI KENTUCKY HOSPITALS MAGAZINE
KY HOSP MAG
6,1989—
KENTUCKY HOSPITAL ASSOCIATION
LOUISVILLE KY UNITED STATES
CONTINUES: KENTUCKY HOSPITALS. CALLED
ALSO: KENTUCKY HOSPITALS.
INDEXING BEGAN WITH V6N1,WINTER 1989.
W1 KE687R
SR0073511 JC: ABE
- IM LIKARSKA SPRAVA
LIKARSKA SPRAVA
N1,JAN 1992—
ZDOROVIA
KIEV UKRAINE UKRAINE
MONTHLY. CONTINUES: VRACHEBNOE DELO.
INDEXING BEGAN WITH N1,1992.
W1 LI511T 0049-6804
SR0073609 JC: BG1
- IM NATURAL IMMUNITY
NAT IMMUN
11N1,JAN/FEB 1992—
KARGER
BASEL SWITZERLAND
CONTINUES: NATURAL IMMUNITY AND CELL
GROWTH
REGULATION.
INDEXING BEGAN WITH V11N1,1992.
W1 NA805C 1018-8916
SR0073468 JC: BGD
- IM OPHTHALMOLOGE
OPHTHALMOLOGE
89N1,FEB 1992—
SPRINGER-VERLAG
BERLIN GERMANY
CONTINUES IN PART: FORTSCHRITTE DER
OPHTHALMOLOGIE. ZEITSCHRIFT DER
DEUTSCHEN
OPHTHALMOLOGISCHEN GESELLSCHAFT.
INDEXING BEGAN WITH V89N1,1992.
W1 OP334P 0941-293X
SR0072274 JC: BGV
- IM PSYCHOANALYSE
PSYCHOANALYSE
46N2,FEB 1992—
KLETT-COTTA
STUTTGART GERMANY
MONTHLY. CONTINUES: PSYCHE.
INDEXING BEGAN WITH V46N2,1992.
W1 PS394E 0941-4428
SR0073605 JC: BGO
- IM ROSSIISKII MEDITSINSKII ZHURNAL
ROSS MED ZHURNAL
1992—
IZDATELSTVO MEDITSINA
MOSKVA USSR
CONTIUNES: SOVETSKAIA MEDITSINA.
INDEXING BEGAN WITH N1,1992.
ON ORDER
SR0073384 JC: BF7
- IM SURGERY TODAY
SURG TODAY
22N1,1992—
SPRINGER INTERNATIONAL
TOKYO JAPAN
RUNNING TITLE: JAPANESE JOURNAL OF
SURGERY. CONTINUES: JAPANESE JOURNAL OF
SURGERY.
INDEXING BEGAN WITH V22N1,1992.
W1 SU75P 0941-1291
SR0073290 JC: BFY

TITLES NO LONGER INDEXED AS OF MARCH-APRIL 1992

- INI ADVANCING CLINICAL CARE
ADV CLIN CARE
4N3,MAY/JUN 1989-6N6,NOV/DEC 1991?
DATA DESIGN
FRANKSVILLE WI UNITED STATES
OFFICIAL PUBLICATION OF THE NATIONAL
ORGANIZATION FOR THE ADVANCEMENT OF
ASSOCIATE DEGREE NURSING (NOAADN).
CONTINUES: AD NURSE.
W1 AD895 1042-9565
SR0065850 JC: AC8
- HLI JOURNAL OF THE AMERICAN SOCIETY FOR
INFORMATION SCIENCE
J AM SOC INF SCI
21,1970—
WILEY
NEW YORK NY UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
CONTINUES: AMERICAN DOCUMENTATION.
INDEXING CEASED WITH V42N10,DEC 1991.
AHA 0002-8231
J12180000 JC: HAE
- IM BIOLOGY OF METALS
BIOL MET
1N1,JUN 1988-4N4,1991
SPRINGER INTERNATIONAL
BERLIN GERMANY
VOL. 1 (1988) COMPLETE IN 2 ISSUES.
INDEXING BEGAN WITH V1N1,1988.
W1 BI852MJ 0933-5854
SR0064719 JC: AU2
- HLI LIBRARY JOURNAL
LIBR J
1,1876—
BOWKER
NEW YORK NY UNITED STATES
INDEXING BEGAN WITH V103N1,JAN 1,1978 AND
CEASED WITH V116N21,DEC 1991.
Z 671 L6963 0363-0277
L07260000 JC: K98
- HLI BULLETIN OF THE AMERICAN SOCIETY FOR
INFORMATION SCIENCE
BULL AM SOC INF SCI
1,1974—
AMERICAN SOCIETY FOR INFORMATION SCIENCE
WASHINGTON DC UNITED STATES
SUPERSEDES ASIS NEWSLETTER. THIS TITLE IS
NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V4N4,APR 1978 AND
CEASED WITH V17N6,AUG-SEP 1991.
AHA 0095-4403
B39020000 JC: AZG
- HLI LIBRARY RESOURCES AND TECHNICAL SERVICES
LIBR RESOURCES TECH SERV
1,1957—
AMERICAN LIBRARY ASSOCIATION. RESOURCES
AND
TECHNICAL SERVICES DIVISION
CHICAGO IL UNITED STATES
SUPERSEDES THE JOURNAL OF CATALOGING AND
CLASSIFICATION AND SERIAL SLANTS.
INDEXING BEGAN WITH V22N2, SPRING 1978 AND
CEASED WITH V35N4,OCT 1991.
Z 695.7 L697 0024-2527
L07500000 JC: LAE
- IDL GERODONTOLOGY
GERODONTOLOGY
1N1,SUMMER 1982-9N4,WINTER 1990?
BEECH HILL PUBLISHING COMPANY
MOUNT DESERT ME UNITED STATES
INDEXING BEGAN WITH V3N2,SUMMER 1984.
W1 GE569 0734-0664
G05930000 JC: GEY
- INI RECENT ADVANCES IN NURSING
RECENT ADV NURS
N1,1981-N27,1990
CHURCHILL LIVINGSTONE
EDINBURGH SCOTLAND
FREQUENCY VARIES.
INDEXING BEGAN WITH V22,1988.
W1 RE105VN 0144-6592
R05995000 JC: RAN
- HLI HEALTHCARE EXECUTIVE CURRENTS
HEALTHC EXEC CURR
32N3,1988-35N1,1991
ROSS LABORATORIES
COLUMBUS OH UNITED STATES
CONTINUES: HOSPITAL ADMINISTRATION
CURRENTS. FREQUENCY VARIES: ONLY THREE
ISSUES WERE PUBLISHED IN 1990; ONLY ONE
ISSUE IN 1991.
INDEXING BEGAN WITH V32N3,1988.
W1 HE607R 0898-1647
SR0062863 JC: HEC
- IM ZEITSCHRIFT FUR MEDIZINISCHE
LABORATORIUMSDIAGNOSTIK
Z MED LAB DIAGN
18,1977-32N3/4,1991
VERLAG GESUNDHEIT
BERLIN GERMANY
CONTINUES ZEITSCHRIFT FUR MEDIZINISCHE
LABORTECHNIK. IMPRINT VARIES: -1990,
VERLAG VOLK UND GESUNDHEIT; 1991,VERLAG
GESUNDHEIT.
W1 ZE461 0323-5637
Z04400000 JC: XXU

1991 ONCOLOGY OVERVIEWS

The International Cancer Information Center of the National Cancer Institute announces five new clinical ONCOLOGY OVERVIEWS. ONCOLOGY OVERVIEWS are specialized bibliographies with abstracts, each referencing 200-600 recent publications on a cancer topic of high current interest, drawn from over 4,000 sources. Leading researchers in the field covered by each OVERVIEW review and select the most relevant and significant abstracts for each topic, resulting in a tightly focused, quick reference to the most recent cancer literature.

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Arthur B. Pardee, PhD, editor. |
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Judah Folkman, MD, editor. |
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Alvin M. Mauer, MD, editor. |
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Paul M. Sondel, MD, PhD, editor. |
| <input type="checkbox"/> | 017-042-00289-3 | \$6.00 | Childhood Brain Tumors,
R. J. Packer, MD, editor. |

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National Library of Medicine
Bethesda, MD 20894 (FAX 301-496-0822)

The NLM

Technical Bulletin

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NLM Online Users' Meeting - MLA 1992: NLM Remarks

[Editor's Note: This article contains a summary of a presentation given at the NLM Online Users' Meeting, May 18, 1992 at the annual meeting of the Medical Library Association (MLA) held in Washington, D.C. It is followed by questions and answers from the same meeting.]

Sheldon Kotzin
Bibliographic Services Division, NLM

Good morning and welcome to the NLM Online Users' Meeting. After a brief presentation, we'll have plenty of time for questions about the online system, Grateful Med[®], DOCLINE[®], and Loansome Doc[™]. With me today are Carolyn Tilley, Head of the MEDLARS[®] Management Section (MMS), Janet Zipser and Jane Rosov, the two MMS supervisors (In addition to their other management responsibilities, Janet handles training and Jane handles data distribution to licensees.), and Catherine Soehner, one of the Grateful Med experts in the Section. To answer DOCLINE questions we have Cassandra Allen, Head of the Collection Access Section.

Continued on page 6



MEDLARS® DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL® COMPUTER				
AIDSDRUGS	144		18 JUL 92	
AIDSLINE®**	67,636	JAN 80-OCT 92	15 AUG 92	9210(EM)
AIDSTRIALS	417		08 AUG 92	
AVLINE®	24,100	THROUGH 1992	13 AUG 92	
BIOETHICS®	35,699	JAN 73-AUG 92	31 JUL 92	9208(EM)
BIOTECHSEEK	2,467	JAN 90-SEP 92	01 AUG 92	9209(EM)
CANCERLIT®	897,942	JAN 63-AUG 92	01 AUG 92	9208(EM)
CATLINE®	697,690	THROUGH 1992	13 AUG 92	
CHEMID®	267,994		22 FEB 92	
CHEMLINE®	1,105,428		15 JUL 92	9206(EM)
DENTALPROJ™	786		02 MAY 92	
DIRLINE®	13,954		09 MAY 92	
DOCUSER®	13,141		08 AUG 92	
HEALTH®	623,262	JAN 75-SEP 92	01 AUG 92	9209(EM)
HISTLINE®	105,667		01 AUG 92	9208(EM)
MEDLINE®*	1,245,507	JAN 89-OCT 92	15 AUG 92	9210(EM)
MED86	1,009,361	JAN 86-DEC 88	25 JUL 92	
MED83	892,034	JAN 83-DEC 85	25 JUL 92	
MED80	803,673	JAN 80-DEC 82	25 JUL 92	
MED77	776,468	JAN 77-DEC 79	17 JUL 92	
MED72	1,176,178	JAN 72-DEC 76	06 JUN 92	
MED66	1,312,492	JAN 66-DEC 71	13 JUN 92	
MESH VOC®	83,966	1992	15 AUG 92	
NAME AUTH®	376,985		15 AUG 92	
PDQ®		THRU AUG 92	03 AUG 92	
POPLINE®	191,419	1970-AUG 92	08 AUG 92	9208(EM)
SDILINE®	30,564	AUG 92	25 JUL 92	9209(EM)
SERLINE®	79,208	1992	04 AUG 92	
TOXLINE®	1,084,014	1981-1992	08 AUG 92	9208(EM)
TOXLINE65	707,236	PRE 1965-1980	07 MAR 92	
TOXLIT®	1,071,263	1981-1992	08 AUG 92	9208(EM)
TOXLIT65	586,405	1965-1980	01 SEP 87	
*N.B. FILE IS UPDATED WEEKLY; THIS IS PART 1 OF 6.				
**N.B. FILE IS UPDATED WEEKLY; THIS IS PART 1 OF 5.				
TOXNET® COMPUTER				
CCRIS	3,686		14 JUL 92	
DART™	13,148		08 AUG 92	
DBIR®	1,903		03 JUN 92	
EMICBACK	71,871		08 JUL 90	
ETICBACK	49,593		08 JUL 90	
GENE-TOX	2,919		15 JUN 92	
HSDB®	4,316		30 JUL 92	
IRIS	612		08 AUG 92	
RTECS®	114,247		19 MAY 92	
TRI87	80,130		30 MAR 92	
TRI88	86,416		31 MAR 92	
TRI89	85,430		24 APR 92	
TRI90	83,407		10 APR 92	
TRIFACTS	326		10 APR 92	

Head, MMS: Carolyn B. Tilley Co-Editor: Toby G. Port Co-Editor: Mary Herron Technical Notes Editor: Sara Tybaert (800) 638-8480	Direct Inquiries to: MEDLARS Management Section National Library of Medicine Bldg., 38A, Rm. 4N421 Bethesda, Maryland 20894
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The NLM Technical Bulletin is an administrative document sent to formal members of NLM's MEDLARS Online Network.

TECHNICAL NOTES

AIDSLINE UPDATED

AIDSLINE was updated on June 29, to include meeting abstracts from the 91st Annual Meeting of the American Society for Microbiology. Also added were meeting abstracts of the 9th Annual Symposium on Nonhuman Primate Models for AIDS.

AIDSTRIALS DATA ELEMENT CHANGE

A change was made to the AIDSTRIALS database on June 8, with regard to the STS field. There is now a single field called STS. It contains the state abbreviation, city, and zip code and it looks like this:

STS - CA/San Diego/92103

These are three separate sub-elements, each individually searchable. Each is searched with a different search mnemonic.

For example:

(STS) CA
(CITY) San Diego
(ZP) 92103

The entire search string cannot be searched all together; nor can the second and third sub-elements be searched with the qualifier (STS). Each must be searched and qualified by its own sub-element mnemonic.

MEDLARS and NTIS CORRESPONDENCE - A REMINDER

Please include your MEDLARS User ID code on all correspondence which is sent to MEDLARS Management or to the National Technical Information Service (NTIS). This is helpful to the MEDLARS staff when responding to your inquiries, comments, problems, or suggestions.

ONLINE SERVICES REFERENCE MANUAL, PRICE INCREASE

Effective immediately, the Online Services Reference Manual, 1988 has increased in price. The new price is \$69.00, plus a \$3.00 shipping fee, and the order number is: PB88-156252/GBB. The manual may be ordered from:

National Technical Information Service
7285 Port Royal Road
Springfield, VA 22161
(800) 553-6847

MEDLARS INTERNET ACCESS

1. The Internet domain name for the ELHILL databases (i.e., MEDLINE, TOXLINE, CATLINE, CANCERLIT, BIOETHICS, etc. and PDQ) is:

MEDLARS.NLM.NIH.GOV

The Internet address is currently:

130.14.10.200

2. The Internet domain name for the TOXNET computer (i.e., HSDB, CCRIS, TRI, etc.) is:

TOXNET.NLM.NIH.GOV

and the Internet address is currently:

130.14.19.1

However, Internet access to the TOXNET computer is not available at this time. When this address is operational it will be announced in the Online News.

3. MEDLARS Management Section now has two addresses on the Internet where those in need of MEDLARS User Support may address messages.

Send questions on Grateful Med to:

gmhelp@gmedserv.nlm.nih.gov

Send other online access MEDLARS questions to:

mms@nlm.nih.gov

NEW PAGEDLENGTH MAXIMUM in TOXNET

TOXNET's maximum PAGEDLENGTH setting has been increased from 100 lines to 500 lines. To change your PAGEDLENGTH, enter PROFILE MODIFY PAGEDLENGTH and then at the prompt, enter a number representing a pagelength between 10 and 500, the new maximum. If your terminal does not scroll, we advise you to keep the default setting of 25 lines, about one screen full. Changing your PAGEDLENGTH only affects the number of lines displayed for online printing from a retrieved set of records. PAGEDLENGTH does not affect the PRINT CONTINUOUS command.

PRINT ALL - A NEW TOXNET PRINT OPTION

The PRINT ALL command (or PRT ALL) will display all the fields, including empty data fields, of the retrieved records. Thus, both fields containing actual data, and empty fields, those marked "NO DATA", will display. This contrasts with the PRT DL (or PRINT DETAILED) command which displays entire records except for empty data fields.

Empty data tabs, as found in CCRIS, RTECS, GENE-TOX and IRIS, will not display with PRINT ALL or with PRINT DL. Empty subfields, on the other hand, do display with PRT ALL (but not with PRT DL) and TRI users are reminded that using the PRT ALL option for TRI records may greatly increase the length of the printout.

Some examples of the use of PRT ALL are:

- PRINT ALL INDENTED
- PRT ALL 1:5
- PRT ALL SS 1 OFFLINE

CHEMLINE FILE REGENERATION

In the May-June issue of the *Technical Bulletin*, the article on the CHEMLINE file regeneration on page 15, reports the regeneration of this file as taking place in June 1992 and the example shows a record with an Entry Month (EM) of 9205.

In fact, the regeneration actually occurred in July 1992 and all records in this file now have an Entry Month (EM) value of 9206.

CHANGE TO THE MEDLINE UPDATE SCHEDULE

The 1992 weekly update schedule for MEDLINE, which was originally published in the September-October 1991 issue of the *Technical Bulletin* on pages 35-36, Appendix A, has been revised.

The change affects the Entry Month 9212 (EM). Although parts 1-4 will not be affected, part five, which had an update date of October 31 from the period 921023 to 921029 will be omitted. This revision will alter the date ranges for 9301 (EM) due to be online and available with the new system December 14. The entry month of 9301 (EM) will now have a Date of Entry Range (DA) of 921023 to 921125.

The revision also affects Appendix B, page 37, in the SDILINE column; October 31 becomes October 24. Appendix C, the AIDSLINE update schedule on page 39, changes for 9212 (EM), in that part five will be omitted and part six becomes five.

Appendix G of this issue contains schedules for the 9211 (EM) and 9212 (EM) revised updates.

SCIENTIFIC INFORMATION SERVICES BOOKLET NOW AVAILABLE

The booklet entitled "Scientific Information Services of the National Cancer Institute" is now available from the National Cancer Institute. Designed to respond to the needs and interests of cancer research treatment communities worldwide, this guide provides a highly focused, well organized, quick reference to the most recent cancer information. Included in the booklet are descriptions of PDQ, CancerFax™, CANCERLIT, CANCERGRAMS the Journal of the National Cancer Institute, and more. Also included is information on subscriptions, how to access the databases, and how to locate additional sources of information.

To receive a copy of the booklet, please write or fax:

Marketing Office
National Cancer Institute
Building 82, Room TB
Bethesda, MD 20892
FAX: 301-480-8105

CHANGE IN TOLL FREE PHONE NUMBERS

To comply with federal regulations, toll-free access to NLM databases (for searchers with no local numbers available to them in their geographic area) will be provided by AT&T effective September 30, 1992. NLM toll-free ("1-800") access now provided by CompuServe, Telenet (SprintNet), and Tymnet will be discontinued at that time. All toll-free users will receive individual notification including the new phone numbers and procedures.

MESH TOOLS, 1993

The following 1993 MeSH Tools may now be ordered from the National Technical Information Service (NTIS). Shipment will take place in early October.

Medical Subject Headings - Annotated Alphabetic List, 1993

PB93-100030/GBB
\$42.00 U.S., Canada, and Mexico
\$84.00 (other countries)
\$24.00 microfiche U.S., Canada, and Mexico
\$48.00 microfiche (other countries)

Medical Subject Headings - Tree Structures, 1993

PB93-100048/GBB
\$39.00 U.S., Canada, and Mexico
\$78.00 (other countries)
\$18.00 microfiche U.S., Canada, and Mexico
\$36.00 microfiche (other countries)

Permuted Medical Subject Headings, 1993

PB93-100055/GBB
\$35.00 U.S., Canada, and Mexico
\$70.00 (other countries)
\$17.00 microfiche U.S., Canada, and Mexico
\$34.00 microfiche (other countries)

Orders should be sent to:

National Technical Information Service (NTIS)
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22161
1-800-553-6847 (for telephone orders from individuals/organizations with an NTIS deposit account or major credit card)

An NTIS order form is included as Appendix H for your convenience. Remittance should be sent with all mail orders. Remember to add \$3.00 (U.S., Canada, Mexico) or \$4.00 (other countries) shipping/handling charge per order, not per item ordered.

Continued from page 1

There have been many enhancements to DOCLINE, please stop by the NLM booth to hear about most of them. The staff asked me to mention only a few items of general interest. In October 1991, NLM extended the hours of operation for DOCLINE by one hour, from 7:00 a.m.-9:00 p.m. ET to 7:00 a.m.-10:00 p.m. ET. Beginning April 25, DOCLINE service also became available on Saturdays from 7:00 a.m.-5:00 p.m. ET. NLM will have the ability to accept requests for Clinical Alerts from Loansome Doc users effective with Grateful Med Version 6.0. The following enhancements will be completed in the near future: libraries that transfer Loansome Doc requests to DOCLINE will receive notification when requests sent directly to the health professional are updated as filled. When libraries input requests into DOCLINE for other libraries, the requests will route based on the routing table of the input library.

For the last two years I started my remarks about the online system by giving you some data on codes, searches, and licensees that were using MEDLARS databases. I intend to update those figures in the next few minutes and tell you about some of the other exciting things going on. Before I do, I wanted to acknowledge a pretty significant event that occurred last year. In October 1991, we celebrated the 20th year of MEDLINE. It's not a small achievement to be the most widely used bibliographic database in the world, one that every year more and more organizations want to lease and provide access to. Just walk around the exhibit hall and take a look at the number of products that are developed around MEDLINE or have enhanced MEDLINE in many ways. It took a lot of foresight from folks like Joe Leiter, Grace McCarn, Yvonne Scott, Carolyn Tilley, and many others to see that it got off to a successful start.

In early 1971, batch searching was done at NLM and 13 other domestic centers. These were Harvard, New York Academy of Medicine, College of Physicians, Ohio State, University of Michigan, University of Alabama, John Crerar, University of

Colorado, the Texas Medical Center, University of Washington, and UCLA. That year 13,000 searches were run; most took 10-15 days before they were sent to the requester. Searching was available from 11:00 a.m. to 5:00 p.m. There wasn't much data to search, however. In October 1971, MEDLINE began with 147,000 citations from 236 indexed journals.

What I consider real online access started in January 1972 when NLM made arrangements to have users access remotely over the TYMSHARE System. Most people used equipment like Texas Instrument's Silent 700 or the Execuport 300. The speediest baud rates were about 30 characters per second; most users were at 10 or 15. In the first training class was a young Eloise Foster, then at Emory University. Two weeks later the second class included Mike Homan, June Fulton, and Phyllis Soben, all still active in MLA.

That's enough nostalgia. Let me tell you how far we've come. After 26 years of indexing, MEDLINE contains more than 7 million records and is growing at 350,000-400,000 citations per year and 3,700 journals are now indexed for MEDLINE. In 1991, 5,800,000 total searches were performed online at NLM, almost 80% run against MEDLINE. We now have about 55,000 user codes worldwide accessing NLM and are growing at about 10,000 new users per year. Counting access at NLM and the 100 licensees of NLM databases, there were more than 20 million searches last year. And this does not include access via CD-ROM by more than 9,000 subscribers to CD-ROM products produced by eight vendors. While it's important to acknowledge the many NLM staff members who contribute to this success, many of you in the audience deserve our thanks. You help promote the use of medical information, whether direct from NLM or from a licensee. You train users; you give us advice and occasional criticism. You make our products and services better. There is one small group that helped us with testing of Grateful Med version 6.0 and Internet access this year. I hope some of you are in the audience. We deal with you long distance so it's nice to thank you personally.

I'm now going to give a couple of minutes to some "commercial" announcements. Service desk calls are continuing to grow. We now average 250 calls each week-day. Given this growth we are making some improvements. Since the beginning of the year we have extended the hours of coverage to 8:00 p.m. evenings and from 8:30-5:00 p.m. on Saturdays. Many Californians and Washingtonians are taking advantage of these hours, but I urge all of you to consider calling in the evening or on Saturday, if possible. You will get through much more easily. In the summer, we expect to begin staffing the Service Desk until midnight on weekdays. [Editor's Note: The Service Desk has been staffed until midnight on weekdays since the beginning of August.] We know we have queuing problems at times and we are taking steps to remedy the situation.

At long last Grateful Med Version 6.0 has been released. In fact, the first shipment is leaving NTIS today. I think you will see, if you stop by our booth, that it incorporates many of the suggestions you have made. These include:

- The ability to search all the MEDLINE Backfiles at once or a selected portion of the Backfiles (i.e., 1980-1988).
- New form screens for: AIDS DRUGS; AIDS TRIALS; Clinical Alerts (now a separate database so the online NEWS will not have to be devoted to clinical alert announcements); BIOETHICS; ChemID; SERLINE (actually the search runs against only currently indexed journal titles in SERLINE); and several of the TOXNET databanks.
- Limiting retrieval only to citations with abstracts.
- Searching by Publication Types as well as Review only.
- Ability to limit retrieval to a specific group of journals, e.g., dentistry.

Of course the two major telecommunications improvements are the use of Internet to connect to NLM computers, and the ability to run Grateful Med using a Novell network server so users don't have to have modems for access. Internet access by command language searchers is now being supported also. By the way, please bear with us as on the Service Desk as we get used to handling Internet-related and network calls. We are still developing the expertise within the Library, and are determining those questions we should be able to handle and which are the responsibility of local system administrators.

A new Bulletin Board system is expected to be released this fall. As with the current system, there will be no charge for Bulletin Board access. One of the major new features will be an online user registration system that allows users to receive a code immediately after completing a few questions about their billing preference, profession, where they work, and their major job responsibilities. In addition, the Bulletin Board can be used to place an order for Grateful Med.

A phrase that many of our online users will be hearing more often in the future is FTS2000. It's the new telephone system from AT&T and US Sprint that government agencies will be required to use for voice and data services. NLM was assigned to AT&T and we are now phasing in FTS2000 for MEDLARS use. The first phase affected Federal users who dial direct or have to come through an 800 number. The second phase, to occur most likely in late 1993, will be the implementation of the AT&T value-added packet switched service similar to what most of you use now. If you are a Federal librarian, or if you use 1-800 WATS access because you have no local telecommunications numbers and use Grateful Med Version 6.0 you can set-up for FTS2000. Non-federal users or those with local telecommunications access (Telenet/SprintNet, TYMNET, or CompuServe) should **not** select FTS2000 at this time. These changes will not impact those of you that can use Internet for command language or Grateful Med searching.

I could have ended my remarks here but then I wouldn't have told you more about improvements to our training program both in terms of new modules, and the fact that NLM and the National Network Online Training staff trained 300 more individuals this year than last (a total of 1,150). I wouldn't have mentioned the new clinical alert database, or search system improvements in the works such as increasing the number of lines between CONT. PRINTING? prompts from 100 lines to 500 lines, or increasing from seven to nine level trees in MeSH as promised last year. And I wouldn't have mentioned the exciting research being done on structured abstracts to see if they enhance online retrieval when compared to citations with regular, informative abstracts.

I would like to remind you once more about the National Library of Medicine's commitment to products and services of the highest quality. The retrieval of those millions of references is made possible by the highest quality standards for

indexing, record creation, and maintenance. We are examining using scanning technologies for data creation; methods to use advanced technology to predict MeSH terms; and the like. But we will not compromise on the quality of our data and will insist on accurate and timely products from our licensees. Again this year, with the excellent cooperation of all licensees, we will ask them to examine the quality of data they provide online or on CD-ROM products. Two years ago, when the first quality assurance evaluation was completed, we were pleased at the interest of licensees and their desire to produce products and services of which we can all be proud. I know that goal continues today.

No Online Users' Meeting is complete without a public THANK YOU to the excellent NLM staff that trains users, answers calls, works with licensees who receive our data, and tests all databases and products.

NLM Online Users' Meeting - MLA 1992: Questions and Answers

Question: When will Loansome Doc be available in the Macintosh version of Grateful Med?

Answer: Loansome Doc will be available in the next version which should be out around December 1992 or January 1993. This version will also have Internet access.

Question: Has any thought been given to purchasing Quick Doc or creating the same type of system? It would be very helpful.

Answer: We are at this time taking a look at possible microcomputer front-end programs to the DOCLINE system. We do talk frequently with Jay Daly (of Quick Doc). We recognize that there are quite a few Quick Doc users out there and, as we make changes to the DOCLINE system, we try to keep him informed so that he can make any necessary changes in his system and get them out in a reasonable time.

Question: Could you briefly summarize what might be the advantages of searching MEDLINE via the Internet rather than Telenet/SprintNet? We don't pay extra on Telenet to my knowledge, I mean it's included in our MEDLINE rate, so what are the advantages of searching on Internet?

Answer: I have only seen the Internet accessed from within the National Library of Medicine's building and the speed is certainly fantastic. It comes up so fast that the response time is wonderful. You are right that telecommunication charges are included in your MEDLINE bill. Is there anybody here who was a beta tester for Internet who would like to respond to that?

Answer: We beta-tested Grateful Med Version 6.0 with a group of medical students and the speed is phenomenal. The citations flash by so fast that you can't read them and it seemed more reliable to us than using the normal telecommunications methods.

Question: Would Internet be any faster if you're limited to a 2400 baud modem? (This question was asked by a non-Grateful Med searcher.)

Answer: If you are accessing Internet by first dialing through a modem to a mainframe computer, then no, it would not be faster as you are limited by the speed of the modem. I have a couple of ideas on how Internet might be helpful. And one of them is the file transfer protocol (FTP); I'm wondering how many of you would be interested in having automatic SDIs or your offline prints somewhere in a stored area, that you could then FTP from the NLM system. That would be a high speed file transfer of a file that could be downloaded to your system for use at your computer (instead of the current system of mailing SDIs and offline prints).

The other thing is that we've never had a two way messaging capability with you. You've been able to send us system comments and we've had no way to get back to you (online). The Grateful Med Bulletin Board has been a marvelous opportunity for two way communication, but certainly we could set up a mailbox on the Internet. You could ask us questions, send us requests for materials such as pocket cards, etc. We could respond to you on the Internet and send the material out to you. [Editor's Note: MMS@NLM.NIH.GOV is the Internet mailbox address for MEDLARS, see Technical Notes, page 3, this issue.] I'm sure if you thought about it, there are some other suggestions you might have for us. Please let us know some of your ideas; I think there are possibilities with the Internet that we need to explore.

Question: What are the advantages of using Internet?

Answer: One advantage of Internet is that you don't have to have modems. I think its already been pointed out that the transmission is much more reliable than using telephone lines. The other thing you do need to realize is that with Version 6.0, in order to use an Internet access, you must be directly linked to the Internet on that PC. In other words, with Grateful Med you cannot use a modem to dial out to another mainframe which is on the Internet. Modem access is different from Internet access, even if your modem dials into another computer that would get you into Internet.

In the previous question, a command language searcher inquired about transmission speed being limited by their 2400 baud modem and this is correct. Searchers not using the Grateful Med software are able to use a modem to dial a mainframe computer to get to Internet and then search via Internet.

Question: Why does a DOCLINE request stop before it reaches the end of the routing table if the request hits a library that charges more than the requester is willing to pay?

Answer: That's actually an enhancement that was made to DOCLINE a few years ago, specifically requested by the DOCLINE users. And it is set up so that if the MAXCOST field is completed with a value of \$7.00 or \$8.00, then the request will route throughout the table. However, if you say that you are only willing to pay a lower amount, the system automatically retires the request once it is updated for reason of cost. Again, this was done specifically in response to users. I'm sure it happens regularly because it's set up so that the first time a request is filled for the reason of cost, it is retired. It's not cancelled, it's retired. Are other people having this problem?

Comment by Jay Daly of QuickDoc: NLM has been very, very forthcoming and helpful over the

past year or so in terms of letting me know what's going to be happening, Roz Leiderman in particular and Eve-Marie Lacroix. Also the DOCLINE Help Desk has been helpful over the course of the year in answering simple questions about Quick Doc for which I express extreme gratitude.

Question: Could you explain the rationale behind the decision to stop routing ILL requests because the value in the MAXCOST field has been exceeded?

Answer: At the time that this enhancement was put in place, the situation was that someone would put in a request and maybe say that they were only willing to pay a very low price. The request would route throughout the table, so that you would have multiple libraries having to go in, receipt the request, print it, notice that the requester was not willing to pay their institution's charges and then go back into the system and update the request. This process was happening frequently, often several times to one request and we were specifically asked to put in a mechanism to prevent that from happening.

Question: Can a request be checked against DOCUSER to determine if the potential lender charges more than the borrower is willing to pay?

Answer: The system does not perform a match in DOCUSER to check that. We ask that people put in requests and say that they are willing to pay the network maximum. But if you expect a request to only route within your consortium group, this is one way the user can control that. If you put an amount lower than the network maximum and it goes outside of your group, it will be updated for reason of cost, that you're not willing to pay the cost and then the request will be retired.

Question: I have a question about MEDLARS. First of all, I want to thank Janet for all the help that she gave me over the course of our project - it was really great. We are out in the boonies and we only

have one telecommunications network formerly Telenet now SprintNet. My question concerns those Grateful Med users who have purchased 9600 modems, but yet are limited to using the antiquated 1200 baud telephone line. Why are they not allowed to use the 9600 baud direct lines to NLM?

Answer: Actually NLM doesn't determine where the nodes are set up around the country. It's up to the value-added networks.

Question (continued): My question is there are 9600 baud phone lines available at NLM but because the Grateful Med users have a local access node that they are supposed to use that local access node rather than call the 800 number that is available for 9600 baud.

Answer: We do not at the moment have 9600 direct dial at the Library. The 1-800 network numbers (at

9600 baud) belong to the various networks, Telenet, CompuServe and TYMNET. We have FTS 2000 WATS coming also. These are In-WATS numbers, they are 9600 baud. They have a substantially increased operational cost attached to them, that is Telenet charges us more for WATS service in terms of the connect hour. The 800 numbers cost more money than the network access, so we're attempting to get everyone off 800 numbers wherever possible. We will look into the exact difference in cost for use of the 800 - 9600 baud numbers.

Question: I didn't understand the DOCLINE enhancement. Could you repeat it:

Answer: When libraries input requests into DOCLINE for other libraries the request will route based on the routing table of the input library. If the borrowing library is not a DOCLINE participant then it would not have a routing table.

[Editors Note: Reprinted from the July /August 1992 *NLM News*]

Satellite Broadcasts Set for October 22 and November 5 Information STAT: RX for Hospital Quality

A two-part satellite broadcast, originating from Washington, D.C., will address the critical role that information services can play in improving hospital quality and cost-effectiveness (*News*, June-July 1992).

The last decade has seen a tremendous increase in the number and breadth of useful and affordable biomedical information services, from literature-based databases, to factual databanks, to expert consulting systems. Many of them are supported with taxpayer dollars, including MEDLINE and some 40 other bibliographic and factual databases available from the National Library of Medicine (NLM). If readily available and consulted as needed, these services can help to diagnose infrequently seen diseases, to identify new therapeutic options, to avoid unnecessary procedures, to select less expensive equipment, and to identify recently issued clinical practice and hospital service guidelines.

To promote a better understanding of the contribution these information services can make to hospital quality and efficiency, the National Library of Medicine is organizing two satellite broadcasts receivable at the 8,000 hospitals in the United States, Canada, and Mexico. The broadcasts will feature brief appearances by top Federal health officials, video segments of innovative hospital

library programs from around the country, and discussions of the role of hospital-based information services involving leading hospital administrators, health professionals, and health science librarians. They will also address the need to link computer-based patient record systems to other information resources (the "IAIMS" concept) and to connect hospitals to the emerging National Research and Education Network (NREN).

The broadcasts are sponsored by the National Library of Medicine, the Medical Library Association, and a number of other organizations involved in disseminating health-related information. Healthcare Informatics Telecom Network is producing the broadcasts. The VASatellite Network is also supporting them.

Hospitals are encouraged to make arrangements to receive the broadcasts for viewing by the hospital's administrators, the medical and nursing staffs, the departmental managers, and other interested parties. There is no charge for receiving the programs or for arranging the satellite downlink. Videotapes of the programs will be available for purchase following the broadcast.

Those interested in information about how to arrange to receive the broadcasts should fill out the accompanying form in Appendix I.

Individuals interested in attending the broadcast who do not have access to a satellite downlink facility may wish to contact the chief of library service at their nearest VA Medical Center. These Centers have been encouraged to welcome community participation as space permits.

NLM ONLINE TRAINING PROGRAM: 1993 SCHEDULE

The 1993 schedule of NLM Online Services Training has been finalized. The classes are presented in a variety of ways (i.e., a month-by-month format; by database; and by training site) in Appendices A-D. The registration form is Appendix E. These classes

include techniques for searching the MEDLARS databases for command language searching. The NLM Online Services Training Program consists of a basic module plus 7 specialized modules. The basic module is:

Fundamentals of MEDLARS Searching: This *3-day* class for new searchers focuses on MEDLINE, MeSH, and ELHILL commands.

The seven Specialized Modules cover many of the other MEDLARS databases:

Enhanced Skills in Searching MEDLINE, MeSH, & HEALTH: This *1-day* module provides a refresher of the technical ELHILL commands as well as new techniques used in searching MEDLINE. The HEALTH PLANNING & ADMINISTRATION file and the online MeSH VOCABULARY file are also discussed.

Chemical/Toxicological/TOXNET Databases: These databases (including ChemID, CHEMLINE, TOXLINE, TOXLIT and the various TOXNET databases) will now be taught in a comprehensive *2-day* module.

Cancer Databases: This *1/2-day* module includes CANCERLIT and PDQ.

POPLINE/BIOETHICS/HISTLINE: This *1/2-day* module covers these three specialized databases.

Technical Services Databases: This *1-day* module includes the techniques necessary to search the CATLINE, NAME AUTHORITY FILE, AVLINE, and SERLINE databases.

AIDS Databases: This *1/2-day* module includes searching on AIDSLINE, AIDSTRIALS, and AIDSDRUGS.

Biotechnology Module: This *1/2-day* module includes the BIOTECHSEEK File as well as biotechnology searching in the MEDLINE and DIRLINE files.

Since both the *Fundamentals* and the Specialized Modules concentrate on command language searching, they are not recommended for Grateful Med searchers. Training in the use of Grateful Med is provided by medical libraries throughout the country or by your Regional Medical Library.

The *Fundamentals of MEDLARS Searching* class will be offered at **NO** charge by **ALL** online training centers. The Specialized Modules will be offered by the three Regional Online Training Centers on a cost-recovery basis as determined by these centers.

HOW TO APPLY

Use the "Request for NLM Online Training" form — Appendix E. Send the completed form to the Regional Training Center conducting the training session. Adjacent to the training site name in the various schedules is a symbol indicating to which training center the registration should be sent. Training classes held at NLM in Bethesda, Maryland, have no symbol indicator and registration should be mailed to the MEDLARS Management Section. The reverse side of the registration form provides the various mailing and FAXing information. If a class requires payment, instructions on payment will be sent to you **after** registration by the Training Center teaching the module.

Every attempt will be made to place training applicants in the class requested. If a class is filled, you will be registered for the class of your second choice, and also automatically placed on a waiting list for your first choice. If you are registered for training, approximately one month prior to the class you will receive a packet with information about hotels, local site arrangements and the agenda.

Keep the following points in mind when applying for these classes:

- The same form is used for applying for either the *Fundamentals* or any of the Specialized Modules. Please use a separate form for each applicant.
- You must have a MEDLARS User ID code in order to attend any of the classes.
- Please specify the class dates and sites on your form. Remember, some classes fill rapidly; therefore, it's a good idea to list a second choice to expedite scheduling.
- All classes/modules are considered "tentative" pending sufficient enrollment one month before the class.

- There are no prerequisites for the Specialized Modules. However, it is recommended that you have previous experience/training or prior knowledge of the ELHILL command language before attending. If you are attending a *Fundamentals* course on the 3 days immediately preceding a Specialized Module, you will be prepared for the material included in any Specialized Module. Alternatively, you may take a 3-day *Fundamentals* course and then at a later date request and be scheduled for one or more Specialized Modules.

MEDLARS: REFRESHER & REVIEW

The three Regional Online Training Centers offer a 4-hour workshop called *MEDLARS: REFRESHER & REVIEW (MEDLARS: R&R)*.

- This workshop includes a brief review of NLM system capabilities, a section covering recent enhancements to the system, and a demonstration of commands and techniques such as TFILE, SPRINT, online sorting, and Multi-File Searching (MFS).
- Intended for the experienced searcher who would like a system refresher or update. Terminal hands-on sessions are not included.
- A cost-recovery fee may be charged. This fee varies depending on the training center.

Most of these workshops are scheduled in the first half of the calendar year in order to inform users of new system features. The 1993 *MEDLARS: R&R* schedule is Appendix F. The schedule is subject to change and additional workshops may be added. In order to register for one of these workshops, please call the regional training center sponsoring the workshop.

CATLINE, AVLINE Update

Mid-year changes to the CATLINE and AVLINE bibliographic files for searching and print formats are summarized below:

1. Searching of Uniform Titles

The uniform title is the title under which items can be collectively filed and is used to link records. The data elements Uniform Title (UT), Uniform Title as Added Entry (UA), an Uniform Title as Subject (UTS) should be searched using a field mnemonic as a qualifier. All these data elements are also searchable using the qualifier (UT).

Users are alerted that if terms used as uniform titles, uniform title added entries, or uniform titles used as subjects are searched without a field qualifier, the search retrieval may be incorrect. This is especially true for one word uniform titles such as "AIDS" or "Cancer" which would map to an existing MeSH heading, as would be the case in the example shown here:

EXAMPLE: Cancer (UT) — If searched without qualifier, the term will map to the MeSH Heading "Neoplasms" and the term used as a uniform title will not be retrieved.

It should be noted that the elements Uniform Title (UT), Uniform Title Added Entry (UA), and Uniform Title as Subject (UTS) are also text-word searchable. Text-word searching is a recommended strategy for searching of titles, including those used as uniform titles or uniform title subject entries.

2. Print format changes

The following CATLINE print formats have been eliminated:

Drop notes	PRT DN
Series	PRT SR
Name	PRT NA

Print formats available for CATLINE and AVLINE are summarized below in Figure 1:

	CATLINE	AVLINE
Browse*	PRT BR	PRT BR
Standard	PRT SD or PRT	PRT SD or PRT
Full	PRT FU	PRT FU
Detailed	PRT DL	PRT DL
Acquisitions	PRT AC	—n/a—
Loan	PRT LO	PRT LO
Summary	—n/a—	PRT SU
Catcard	PRT CC	PRT CC

*The Browse print format produces a display of Title (TI) elements only. This is equivalent to the display produced by the user command PRT TI. No online citation charge is incurred for titles browsed using either PRT BR or PRT TI.

Figure 1 - CATLINE and AVLINE print formats

3. Removal of unused data elements

The following CATLINE data elements have been removed from the CATLINE unit record:

- PU (Publisher)
- ES (External symbol)

These data elements have not been used in bibliographic records.

4. Future database changes

Some additional database changes to CATLINE and AVLINE are anticipated in late Summer/early Fall and will be announced, as appropriate, in the online news and future issues of the *Technical Bulletin*.

Developmental and Reproductive Toxicology Subfile Added to TOXLINE

Stacey J. Arnesen
Division of Specialized Information Services, NLM

A new subfile on teratology and other aspects of developmental and reproductive toxicology was added to TOXLINE in May. This subfile is identified by the acronym DART (Developmental and Reproductive Toxicology) in the Secondary Source Identifier (SI) field of TOXLINE. The DART subfile contains almost 10,000 citations to literature published since late 1988. Subjects covered in DART include citations to literature on physical, biological, or chemical agents that may cause birth defects. DART is a continuation of the ETIC (Environmental Teratology Information Center) subfile of TOXLINE. The ETIC subfile contains citations to literature published before 1989.

TOXLINE covers all aspects of toxicology, but reproductive and developmental toxicity information has not been covered sufficiently since ETIC was discontinued in 1989. Therefore, it was decided to add the DART citations to TOXLINE. In addition, as many users know, DART is also available as a separate database on TOXNET.

References from DART contain complete bibliographic citations, abstracts (when available), MeSH, and the names and CAS RNs of chemicals (See sample record in Figure 1.) Approximately 60% of the DART subfile is derived from MEDLINE. The remaining citations are for literature not included in MEDLINE, such as technical reports, meeting abstracts, and books. Don't worry that you

may be retrieving the MEDLINE citations twice in TOXLINE - once from TOXBIB and a second time from DART. The MEDLINE overlap between the TOXBIB and DART subfiles has been removed from the TOXBIB subfile.

DART, like the TOXBIB and BIOSIS subfiles may be searched using MeSH. The full use of MeSH, including subheadings, explode, pre-explode, subs apply/subs cancel, etc. may be used to retrieve DART citations. In addition, chemicals may be searched either by name, qualified by NM in parentheses (e.g., caffeine (NM)) or by CAS RN. Of course, if you are only interested in citations from DART, you can limit your search to the DART subfile by typing DART (SI). If you have already searched MEDLINE, you can easily eliminate the DART citations that were derived from MEDLINE by using DART (SI) and not MED (CC) to limit your retrieval.

The DART database on TOXNET is several months more current than the DART subfile in TOXLINE, since the TOXNET database is updated monthly and the TOXLINE subfile is updated quarterly. The next DART update to TOXLINE is scheduled for September. Approximately 1,000-1,200 records are expected with each quarterly update.

If you have any questions about DART, please call the MEDLARS Service Desk at 1-800-638-8480, or the DART representative at (301) 496-3147, or write to:

DART Representative
National Library of Medicine
Specialized Information Services
Building 38A, Room 3S-319
Bethesda, MD 20894

SI - DART/T/91000366
 CC - TER
 AU - Piersma AH
 AU - Verhoef A
 AU - Peters PW
 AD - Unit Teratology, Endocrinology and Perinatal Screening, National Institute of Public Health and Environmental Protection, Bilthoven, The Netherlands.
 TI - Effects of low sodium concentrations on the development of post-implantation rat embryos in culture and on their sensitivity to anticonvulsants.
 SO - Toxicology In Vitro 1991;5(1):71-5
 TA - Toxicology In Vitro
 PT - JOURNAL ARTICLE
 LA - Eng
 IS - 0887-2333
 AB - Anticonvulsant drug treatment during pregnancy is associated with an increased incidence of developmental disorders. The finding that anticonvulsant treatment can induce hyponatraemia prompted us to study the role of this parameter in the induction of malformations. Rats were treated orally with the anticonvulsants phenytoin, phenobarbitone, carbamazepine and valproic acid, and their sera were used as media in cultures of post-implantation (day 10) rat embryos. Sodium concentrations in the media were adjusted by mixing sera with 25% tissue-culture medium with or without sodium chloride. We found that low sodium concentrations caused retardation of development and enhanced the sensitivity of embryos to the retardant effects of anticonvulsants. These results show that apart from the direct effects of drugs and their metabolites secondary factors may be important in the aetiology of maldevelopment.

MH - Animal
 MH - Anticonvulsants/*TOXICITY
 MH - Culture Media
 MH - Female
 MH - Fetal Development/*DRUG EFFECTS
 MH - Male
 MH - Osmolar Concentration
 MH - Pregnancy
 MH - Rats
 MH - Sodium/*PHYSIOLOGY/DEFICIENCY
 RN - 7647-14-5 (Sodium chloride)
 RN - 57-41-0 (Diphenylhydantoin)
 RN - 50-06-6 (Phenobarbitone)
 RN - 298-46-4 (Carbamazepine)
 RN - 99-66-1 (Valproic acid)
 RN - 7440-23-5 (Sodium)
 EM - 9205

Figure 1 - SAMPLE DART RECORD IN TOXLINE

Gold Standard Searches

Thank you to everyone who mailed in search strategies in response to the "Gold Standard Searches" article in the March-April 1992 issue of the *Technical Bulletin*. This feature offers searchers a chance to match wits with the NLM "experts" on a search strategy formulation. The NLM search strategies are developed here at NLM. The search request published in the March-April issue was:

How to deal with the violent patient.

There was one winner and congratulations go to Linda Butson of the Mountain Area Health Education Center, Asheville, NC. The Gold Standard Search Search strategy is shown in Figure 1 and Linda Butson's strategy is in Figure 2. Ms. Butson will receive her choice of a free copy of Grateful Med or one hour of free search time. KD Proffit of the Sutter Hospitals Foundation Library, Sacramento, CA and Gracia Moses of the Greater Bridgeport Community Mental Health Center, Bridgeport, CT were close runners-up in this match.

Search Strategy Suggestions

In this search, to be comprehensive, it was necessary to think of all the major categories of terms that could be combined with the concept of violence, including terms for physician-patient relations, patient terms, terms for the facility and staffing terms. Only after searching using all the relevant MeSH headings, should searches be narrowed by using the Text Word Title Field (TF) search capability. The search entries showed a tendency to resort to using Text Word searching in lieu of the available MeSH headings. Searching by TF or Text Word (TW) is a good way to begin a search and retrieve a few relevant articles. But if you then don't go on to examine the MeSH headings in those articles and continue your search using the MeSH vocabulary, you will miss out on many relevant citations. Some searchers also prematurely narrowed

their retrieval with the use of subheadings or particular methods of treatment (i.e., patient isolation). As a result many relevant citations were missed.

A few people ran their searches in the HEALTH ADMINISTRATION & PLANNING (HEALTH) file in addition to MEDLINE. This resulted in some additional citations, particularly from two journal titles, Hospital Security and Safety Management and Journal of Healthcare Protection Management, that are not indexed for MEDLINE. However, the additional retrieval is small and with such a large retrieval in MEDLINE, it might not be worthwhile in terms of time and money to run the search in file HEALTH unless the requestor indicated that an absolutely comprehensive retrieval was required.

Once again, thanks to all who submitted entries and thank you for the kind comments about how much you enjoy this feature. The topic for the next Gold Standard Search is:

Is the risk of miscarriage increased by working at a video display terminal?

Please keep your retrieval to the most recent 50 or fewer citations. Results will be published in the November-December 1992 *Technical Bulletin*. Entries must be received by October 16, 1992 to be considered.

If you mail us a copy of your search strategy with a printout of citations and abstracts and 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 first one to arrive across the editor's desk is the prize winner.

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 of 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 using Grateful Med to:

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

WELCOME TO THE NATIONAL LIBRARY OF MEDICINE'S ELHILL SYSTEM.
YOU ARE NOW CONNECTED TO THE MEDLINE (1989 - 92) FILE.

SS 1 /C?

USER:

*violence

PROG:

SS (1) PSTG (904)

SS 2 /C?

USER:

exp *professional-patient relations

PROG:

SS (2) PSTG (2690)

SS 3 /C?

USER:

*patient care planning or *patient care team or *nursing, team

PROG:

SS (3) PSTG (2207)

SS 4 /C?

USER:

exp *hospital or exp *hospital departments

PROG:

SS (4) PSTG (7856)

Figure 1 - Gold Standard Search Strategy

SS 5 /C?

USER:
exp patients

- This term is not starred because any citation containing *VIOLENCE and a patient term is assumed to be highly relevant.

PROG:

SS (5) PSTG (2137)

SS 6 /C?

USER:
2 or 3 or 4 or 5

PROG:

SS (6) PSTG (14429)

SS 7 /C?

USER:
1 and 6

PROG:

SS (7) PSTG (123)

SS 8 /C?

USER:
7 and 92 (yr) or 7 and 91 (yr)

PROG:

SS (8) PSTG (66)

SS 9 /C?

USER:
ts (la) eng

PROG:

SS (9) PSTG (59)

SS 10 /C?

USER:
9 and not letter (pt)

- This eliminates all letters and is being used to bring the retrieval to below 50. However, substantive letters will also be eliminated and you would not necessarily use this method in a "real" search.

PROG:

SS (10) PSTG (47)

SS 11 /C?

USER:
prt ti

Figure 1 - Gold Standard Search Strategy cont.

[Editor's Note: **Bolded** titles were also retrieved by L. Butson's search strategy.]

PROG:

- 1
TI - Reducing the risk of assault.
- 2
TI - Violence in the Accident and Emergency Department.
- 3
TI - The cost of staff injuries from inpatient violence.
- 4
TI - Blood in our streets. The status and evolution of trauma care systems.
- 5
TI - Injury and violence in Los Angeles. Impact on access to health care and surgical education.
- 6
TI - A hierarchy of aggressive and violent behaviors among psychiatric inpatients.
- 7
TI - Violence against staff by mentally retarded inpatients.
- 8
TI - Family violence and the evaluation of behavioral concerns in a pediatric primary care clinic.
- 9
TI - Staff strain and social support in a psychiatric hospital following assault by a patient.
- 10
TI - The relationship of crowding and aggressive behavior on a psychiatric intensive care unit.
- 11
TI - A model hospital policy on prosecuting patients for presumptively criminal acts.
- 12
TI - Nurses face growing risk of violence and abuse.
- 13
TI - Violence by psychiatric in-patients.
- 14
TI - **Psychiatrists injured by patient attack.**
- 15
TI - **Women clinicians and patient assaults.**
- 16
TI - A hospital-wide approach to crisis control: one inner-city hospital's experience.

Figure 1 - Gold Standard Search Strategy cont.

- 17
TI - The socioeconomic impact of assault injuries on an urban trauma center.
- 18
TI - A program to help staff cope with psychological sequelae of assaults by patients.
- 19
TI - Management of violent patients in a general hospital.
- 20
TI - **The interactional dynamics of violence, Part II: Juvenile detention.**
- 21
TI - **The interactional dynamics of violence, Part I: An acute psychiatric ward.**
- 22
TI - **A prospective study of patient assaults on nurses in a provincial psychiatric hospital in Canada.**
- 23
TI - Preventing and controlling violence in emergency departments.
- 24
TI - Impressions. Risk (risk), n. hazard; danger; peril; exposure to harm.
- 25
TI - Weapons in the emergency department.
- 26
TI - Violence in Philadelphia emergency departments reflects national trends.
- 27
TI - Restraining potentially violent patients.
- 28
TI - Hostage-situation policy statement for the emergency department.
- 29
TI - Violence in the accident and emergency department: differences across the Atlantic [editorial]
- 30
TI - Violence in the emergency department: asking the right questions [editorial]
- 31
TI - Who will the heroes be? [editorial]
- 32
TI - Notes on the "violence in the emergency department: theme issue [editorial]

Figure 1 - Gold Standard Search Strategy cont.

- 33
TI - Security dogs in the emergency department: one hospital's solution to the crisis of violence.
- 34
TI - Reducing violence in a special hospital.
- 35
TI - **Violence to general practitioners and fear of violence.**
- 36
TI - **Violence by psychiatric inpatients: a review.**
- 37
TI - Impact of the political violence in Natal on emergency surgical services of a tertiary hospital.
- 38
TI - **Predicaments of the closed ward staff.**
- 39
TI - **Managing violence in psychiatric hospitals [editorial] [see comments]**
- 40
TI - **Nursing staff characteristics related to patient assault.**
- 41
TI - **Violence in psychiatric wards. Role of the lax milieu.**
- 42
TI - "Constant observation: means 'constant observation'. Case in point: Thayer v. Jackson Brook Institute, Inc. (584 A. 2d 653—ME (1990)).
- 43
TI - A troubled place.
- 44
TI - **The Berkeley Group: ten years' experience of a group for non-violent sex offenders.**
- 45
TI - **Management of the violent patient. Therapeutic and legal considerations.**
- 46
TI - Prosecuting assaultive psychiatric inpatients.
- 47
TI - Aggression directed toward emergency department staff at a university teaching hospital.

Figure 1 - Gold Standard Search Strategy cont.

WELCOME TO THE NATIONAL LIBRARY OF MEDICINE'S ELHILL SYSTEM.
YOU ARE NOW CONNECTED TO THE MEDLINE (1989 - 92) FILE.

SS 1 /C?

USER:

exp professional-patient relations

PROG:

SS (1) PSTG (5411)

SS 2 /C?

USER:

violence or aggression

PROG:

SS (2) PSTG (2259)

SS 3 /C?

USER:

1 and 2

PROG:

SS (3) PSTG (101)

SS 4 /C?

USER:

ts (la) eng

PROG:

SS (4) PSTG (82)

SS 5 /C?

USER:

4 and 92 (yr) or 4 and 91 (yr)

PROG:

TIME OVFLW: CONT? (Y/N)

USER:

y

PROG:

TIME OVFLW: CONT? (Y/N)

USER:

y

PROG:

SS (5) PSTG (41)

SS 6 /C?

USER:

prt ti

Figure 2 - Search by Linda Butson

[Editor's Note: In the interest of saving space and paper, the titles printed below are those citations uniquely retrieved with this strategy. The citations that were also retrieved by the Gold Standard strategy are shown only in Figure 1 and indicated by **BOLDing**.]

- TI - The patient's perception of the analyst: the hidden transference.
- TI - Before aggression erupts.
- TI - Psychotherapy of borderline and narcissistic disorders in the adolescent: establishing a therapeutic alliance.
- TI - Assaults on staff [letter]
- TI - Assault's other side [letter; comment]
- TI - Caring for the sexually aggressive patient. You don't have to blush and bear it.
- TI - Who's the victim?
- TI - Special hospitals. A collective responsibility.
- TI - Antecedents and interventions for aggressive behavior of patients at a geropsychiatric state hospital.
- TI - Verbal abuse in the emergency department.
- TI - From the Psych/Mental Health Council. Home sweet home.
- TI - Legal case briefs for nurses. LA.: nurse inserts catheter over pt.'s objection: battery; IL.: nurse leaves station—termination: at will employment.
- TI - The unstructured milieu [letter]
- TI - Negative effects of a smoking ban on an inpatient psychiatry service.
- TI - One kind of negative therapeutic reaction.
- TI - Violence in general practice [letter; comment] [see comments]
- TI - Preventive health care for the adolescent.
- TI - Primary care physicians' response to domestic violence. Opening Pandora's box [see comments]
- TI - Heading off violence with verbal de-escalation.
- TI - From the Psych/Mental Health Council. New domestic violence legislation; new hope for victims of domestic violence.
- TI - Interacting with trauma: clinicians' responses to treating psychological aftereffects of political repression.
- TI - Patient assaults on psychiatric residents: the Canadian experience.
- TI - Violence in general practice: a survey of general practitioners' views [see comments]

Figure 2 - Search by Linda Butson cont.

NLM DATA ON CD-ROM

The NLM leases MEDLINE and other databases on magnetic tape to many licensees, both domestic and abroad. Some of these licensees use NLM databases to create CD-ROM products. The NLM currently produces a CD-ROM called *Entrez:Sequences* containing DNA and protein sequence data and their associated MEDLINE entries (for more information call 301-496-2475). The following is a list of those licensees who, at the time of this writing, have produced CD-ROM products using leased NLM data. For information about their products, we suggest you contact these licensees.

Aries Systems Corporation
1 Dundee Park
Andover, MA 01810
508-475-7200

Cambridge Scientific Abstracts
7200 Wisconsin Avenue, Suite 601
Bethesda, MD 20814
301-961-6700; 800-843-7751

CD-Plus, Inc.
333 Seventh Avenue, 6th Floor
New York, NY 10001
212-563-3006

DIALOG Information Services
3460 Hillview Avenue
Palo Alto, CA 94304
415-858-2700; 800-334-2564

DNASTAR, Inc.
1228 S. Park St.
Madison, WI 53715
608-258-7420

EBSCO Electronic Information
P.O. Box 325
447 Old Boston Road, Suite 10
Topsfield, MA 01983
508-538-8500; 800-221-1826

Health Care Information, Inc.
2335 American River Drive, Suite 307
Sacramento, CA 95825
916-648-8075; 800-468-1128

Macmillan New Media
124 Mount Auburn Street
Cambridge, MA 02138
617-661-2955 Ext. 20; 800-342-1338

National Information Service Corp.
Wyman Towers Suite #6
3100 St. Paul St.
Baltimore, MD 21218
410-243-0797
(POPLINE only)

SilverPlatter Information
100 River Ridge Drive
Norwood, MA 02062-2599
617-769-2599; 800-343-0064

Teton Data Systems
235 East Broadway
P.O. Box 3082
Jackson, WY 83001
307-733-9528; 800-755-7828

WLN
P.O. Box 3888
Lacy, WA 98503-0888
800-342-5956
(CATLINE only)

SERIALS UPDATE

INDEXED TITLES UPDATED, MAY - JUNE 1992

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

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

TITLES SELECTED FOR INDEXING, MAY - JUNE 1992

INI CONTEMPORARY NURSE
CONTEMP NURSE
1N1, APR 1992—
UNIVERSITY OF SOUTH AUSTRALIA
SALISBURY AUSTRALIA
INDEXING BEGAN WITH V1N1, 1992.
ON ORDER 1037-6178
SR007399 JC: BH9
UNIVERSITY OF SOUTH AUSTRALIA,
GPO BOX2471,
ADELAIDE SA 5001, AUSTRALIA

IDL PRAKTISCHE KIEFERORTHOPADIE
PRAKT KIEFERORTHOP
1N1, MAR 1987—
QUINTESSENZ VERLAG
BERLIN GERMANY
INDEXING BEGAN WITH V4N4, 1990.
W1 PR268 0931-6965
SR0059256 JC: BH6
QUINTESSENZ VERLAG,
IFENPFAD 2-4, D1000
BERLIN 42, GERMANY

TITLE CHANGES, MAY - JUNE 1992

IM ACTA MEDICA CROATICA
ACTA MED CROATICA
45N4/5, 1991—
HRVATSKA AKADEMIJA MEDICINSKIH ZNANOSTI
ZAGREB YUGOSLAVIA
CONTINUES: ACTA MEDICA IUGOSLAVICA.
INDEXING BEGAN WITH V45N4-5, 1991.
W1 AC8333G 0375-8338
SR0072570 JC: BH2

IM ARCHIVES OF MEDICAL RESEARCH
ARCH MED RES
23, 1992—
INSTITUTO MEXICANO DEL SEGURO SOCIAL (IMSS)
MEXICO CITY MEXICO
CONTINUES: ARCHIVOS DE INVESTIGACION MEDICA.
ON ORDER 0188-4409
SR0074006 JC: BIC

IM ANNUAL REVIEW OF BIOPHYSICS AND
BIOMOLECULAR STRUCTURE
ANNU REV BIOPHYS BIOMOL STRUCT
21, 1992—
ANNUAL REVIEWS
PALO ALTO CA UNITED STATES
CONTINUES: ANNUAL REVIEW OF
BIOPHYSICS AND BIOPHYSICAL CHEMISTRY.
INDEXING BEGAN WITH V21, 1992.
IN PROCESS 1056-8700
SR0073853 JC: BH5

IM BIOMETALS
BIOMETALS
5, 1992—
RAPID COMMUNICATIONS OF OXFORD
OXFORD UK ENGLAND
AN INTERNATIONAL JOURNAL ON THE ROLE
OF METAL IONS IN BIOLOGY, BIOCHEMISTRY AND
MEDICINE.
CONTINUES: BIOLOGY OF METALS.
INDEXING BEGAN WITH V5N1, 1992.
W1 BI858N 0966-0844
SR0074162 JC: BID

TITLE CHANGES, MAY - JUNE 1992

- INI BRITISH JOURNAL OF NURSING
BR J NURS
1N1, APR 23/MAY 13 1992—
MARK ALLEN PUBLISHING
LONDON ENGLAND
CONTINUES: NURSING.
INDEXING BEGAN WITH V1N1, 1992.
ON ORDER 0966-0461
SR007417 JC: BIG
- IDL LAB MANAGEMENT TODAY
LAB MANAGE TODAY
8N1, SEP 1991—
DENTAL LAB PUBLICATIONS
NORWALK CT UNITED STATES
CONTINUES: DENTAL LAB MANAGEMENT TODAY.
INDEXING BEGAN WITH V8N1, 1991.
IN PROCESS 1058-7845
SR0074318 JC: BI1
- IM CHUNG-KUO CHUNG HSI I CHIEH HO TSA CHIH
[CHINESE JOURNAL OF INTEGRATED TRADITIONAL
AND WESTERN MEDICINE]
CHUNG KUO CHUNG HSI I CHIEH HO TSA CHIH
12, 1992—
CHUNG-KUO CHUNG HSI I CHIEH HO YEN CHIU HUI
PEI-CHING CHINA
CONTINUES: CHUNG HSI I CHIEH HO TSA CHIH
[CHINESE JOURNAL OF MODERN DEVELOPMENTS
IN TRADITIONAL MEDICINE].
INDEXING BEGAN WITH V12N1, 1992.
IN PROCESS 1003-5370
SR0074165 JC: BIF
- INI MNA ACCENT
MNA ACCENT
50, 1978?—
MINNESOTA NURSES ASSOCIATION
ST PAUL MN UNITED STATES
MONTHLY, EXCEPT DEC.; NINE ISSUES PER YEAR.
CONTINUES: MINNESOTA NURSING ACCENT.
RUNNING TITLE: MINNESOTA NURSING ACCENT.
W1 MI699N 0026-5586
SR0074296 JC: BIZ
- INI EMERGENCY NURSE
EMERG NURSE
MAR 25, 1992—
NURSING STANDARD PUBLICATIONS
LONDON ENGLAND
SUPPLEMENT TO: NURSING STANDARD.
INDEXING BEGAN WITH MAR. 25, 1992.
W1 EM664DN
SR0074077 JC: BIA
- IM NUOVA RIVISTA DI NEUROLOGIA
NUOVA RIV NEUROL
61N1, JAN/FEB 1991—
PENSIERO SCIENTIFICO EDITORE
ROMA ITALY
ISSUES FOR JAN.-APR. 1991 CARRY THE VOLUME
NUMBERING OF THE FORMER TITLE, RIVISTA DI
NEUROLOGIA. ISSUES FOR MAY 1991- CALLED
V.1, N.3- .
CONTINUES: RIVISTA DI NEUROLOGIA.
INDEXING BEGAN WITH V61N1, 1991.
IN PROCESS 0891-0049
SR0074393 JC: BI3
- IM EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY
EXP TOXICOL PATHOL
44N1, MAR 1992—
GUSTAV FISCHER
JENA GERMANY
OFFICIAL JOURNAL OF THE GESELLSCHAFT FUR
TOXIKOLOGISCHE PATHOLOGIE.
CONTINUES: EXPERIMENTAL PATHOLOGY.
INDEXING BEGAN WITH V44N1, 1992.
W1 EX47H 0940-2993
SR0074209 JC: BIR
- IDL PERIODONTAL CLINICAL INVESTIGATIONS
PERIODONTAL CLIN INVESTIG
14N1, SPRING 1992—
MSP INTERNATIONAL
PORT WASHINGTON NY UNITED STATES
OFFICIAL PUBLICATION OF THE NORTHEASTERN
SOCIETY OF PERIODONTISTS.
CONTINUES: PERIODONTAL CASE REPORTS.
INDEXING BEGAN WITH V14N1, 1992.
W1 PE793K
SR0074195 JC: BIH
- IM INFUSIONSTHERAPIE UND TRANSFUSIONSMEDIZIN
INFUSIONSTHER TRANSFUSIONSMED
19N1, FEB 1992—
KARGER
BASEL SWITZERLAND
CONTINUES: INFUSIONSTHERAPIE.
INDEXING BEGAN WITH V19N1, 1992.
W1 IN447CE 1011-6966
SR0074228 JC: BIW

TITLE CHANGES, MAY - JUNE 1992

IM POPULATION REPORTS. SERIES D, MALE
 POP STERILIZATION
 POPUL REP D
 N4,NOV/DEC 1983—
 POPULATION INFORMATION PROGRAM,
 THE JOHNS HOPKINS UNIVERSITY
 BALTIMORE MD UNITED STATES
 CONTINUES: POPULATION REPORTS. SERIES D;
 STERILIZATION [MALE].
 INDEXING BEGAN WITH N4,1983.
 IN PROCESS 0891-0049
 SR0074199 JC: BIQ

INI TRADIMUS
 TRADIMUS
 1,1985-1990?
 RCN TYPESETTING AND PRODUCTION
 LONDON ENGLAND
 BECAME INCORPORATED WITHIN: NURSING
 STANDARD WITH VOL. 4 NO. 31 (1990) OF THE
 LATTER PUBLICATION. PUBLISHED UNDER THE
 AEGIS OF THE RCNS ASSOCIATION OF NURSING
 STUDENTS, FREE INSIDE NURSING STANDARD.
 INDEXING BEGAN WITH NO.2,SUMMER 1986.
 W1 TR1099 0269-0977
 SR0057691 JC: WAO

INI PROFESSIONAL CARE OF MOTHER AND CHILD
 PROF CARE MOTHER CHILD
 1N1,SEP 1991—
 MAXWELL MARKETING SERVICES
 LONDON ENGLAND
 CONTINUES: MIDWIFE, HEALTH VISITOR AND
 COMMUNITY NURSE.
 INDEXING BEGAN WITH V1N1,1991.
 ON ORDER 0964-4156
 SR0073895 JC: BH7

TITLES NO LONGER INDEXED AS OF MAY - JUNE 1992

IM CANCER CELLS
 CANCER CELLS
 1N1,SEP 1989-3N12,DEC 1991
 COLD SPRING HARBOR LABORATORY
 COLD SPRING HARBOR NY UNITED STATES
 CONTINUES: CANCER CELLS. VOL. 1 (1989)
 COMPLETE IN 4 ISSUES.
 INDEXING BEGAN WITH V1N1,SEP 1989.
 W1 CA677BGG 1042-2196
 SR0063198 JC: AU5

IM PLUCNE BOLESTI
 PLUCNE BOLESTI
 36N1/2,JAN/JUN 1984-43N1/2,JAN/JUN 1991
 YUGOSLAV ASSOCIATION OF PHTHYSIOLOGY AND
 PNEUMOLOGY
 GOLNIK YUGOSLAVIA
 CALLED ALSO: RESPIRATORY DISEASES.
 CONTINUES: PLUCNE BOLESTI I TUBERKULOZA.
 W1 PL266W 0352-5503
 SR0052021 JC: P9U

IM HILLSIDE JOURNAL OF CLINICAL PSYCHIATRY
 HILLSIDE J CLIN PSYCHIATRY
 1,1979-11,1989
 HUMAN SCIENCES PRESS
 NEW YORK NY UNITED STATES
 SUPERSEDES JOURNAL OF THE HILLSIDE
 HOSPITAL.
 INDEXING BEGAN WITH V5N1,1983.
 W1 H1406M 0193-5216
 H13181000 JC: GBF

IM PROGRESS IN VETERINARY MICROBIOLOGY
 AND IMMUNOLOGY
 PROG VET MICROBIOL IMMUNOL
 1,1985-5,1989
 KARGER
 BASEL SWITZERLAND
 INDEXING BEGAN WITH V1,1985.
 W1 PR686 0255-3686
 SR0051244 JC: AOC

THE FOLLOWING ARE CORRECTIONS TO ENTRIES IN THE MAR-APR 1992 LISTING

HLI JOURNAL FOR HEALTHCARE QUALITY
J HEALTHC QUAL
14,1992—
NATIONAL ASSOCIATION FOR HEALTHCARE QUALITY
SKOKIE IL UNITED STATES
RUNNING TITLE: JHQ.
CONTINUES: JOURNAL OF QUALITY ASSURANCE.
INDEXING BEGAN WITH V14N1, 1992.
W1 JO38MC
SR0073100 JC: BBO

TITLE CHANGE NOT NEWLY SELECTED

HLI PART B NEWS
PART B NEWS
1N1, MAY 1987—
UNITED COMMUNICATIONS GROUP
BETHESDA MD UNITED STATES
ISSUES FOR DED. 4, 1989? INCLUDE
SUPPLEMENT: PART B NEWS. SPECIAL REPORT.
MONTHLY 1987-1990. 24 TIMES A YEAR, 1991- .
INDEXING BEGAN WITH V1N1, 1989 AND CEASED
WITH V5N24, 1991.
W1 PA864Q 0893-8121
SR0066500 JC: AHE

INDEXING BEGAN WITH V3N1, 1989 NOT V1N1.

1993 NLM ONLINE SERVICES TRAINING SCHEDULE

FUNDAMENTALS OF MEDLARS SEARCHING

(3-DAY CLASS)

Legend:
 + module taught by Eastern Online Training Center
 # module taught by Midlands Online Training Center
 * module taught by Western Online Training Center
 no indicator means class is taught by NLM instructors

DATES	LOCATION	DATES	LOCATION
JAN 11-13	CHARLESTON, SC +	JUL 12-14	CHICAGO, IL #
JAN 11-13	BETHESDA, MD	JUL 12-14	BETHESDA, MD
JAN 25-27	LOS ANGELES, CA *	JUL 19-21	BOZEMAN, MT *
		JUL 19-21	HANOVER, NH +
FEB 8-10	NEW YORK, NY +	AUG 9-11	SYRACUSE, NY +
FEB 8-10	SEATTLE, WA *	AUG 23-25	BETHESDA, MD
FEB 9-11	SALT LAKE CITY, UT #	AUG 23-25	SEATTLE, WA *
FEB 22-24	BETHESDA, MD		
MAR 1-3	HOUSTON, TX #	SEP 27-29	NEW YORK, NY +
MAR 15-17	GAINESVILLE, FL +		
MAR 22-24	BETHESDA, MD		
MAR 22-24	SAN FRANCISCO, CA *		
MAR 30-APR 1	CHICAGO, IL #		
APR 26-28	BOSTON, MA +	OCT 4-6	BETHESDA, MD
APR 26-28	LITTLE ROCK, AR #	OCT 18-20	LOS ANGELES, CA *
APR 26-28	LOS ANGELES, CA *	OCT 18-20	OMAHA, NE #
MAY 11-13	ATLANTA, GA +	NOV 15-17	BALTIMORE, MD +
		NOV 15-17	HOUSTON, TX #
JUN 7-9	BETHESDA, MD	DEC 13-15	FARMINGTON, CT +
JUN 7-9	JACKSON, MS +		
JUN 15-17	MINNEAPOLIS, MN #		
JUN 21-23	LOS ANGELES, CA *		

ALL FUNDAMENTALS OF MEDLARS SEARCHING CLASSES ARE FREE.

1993 — SPECIALIZED MODULES

Legend:
 A.M. module taught in the morning
 P.M. module taught in the afternoon
 If no A.M./P.M. indicator is present the class is a full day.
 + module taught by Eastern Online Training Center
 (two-day module=\$85; one-day module=\$85; half-day module=\$45)
 # module taught by Midlands Online Training Center
 (two-day module=\$85; one-day module=\$65; half-day module=\$40)
 * module taught by Western Online Training Center
 (two-day module=\$75; one-day module=\$65; half-day module=\$45)
 no indicator means class taught by NLM instructors

DATES		MODULE	LOCATION
JAN 12-13		CHEM/TOX/TOXNET	HOUSTON, TX #
JAN 14	A.M.	CANCERLIT/PDQ	CHARLESTON, SC +
JAN 14-15		CHEM/TOX/TOXNET	BETHESDA, MD
JAN 14	P.M.	BIOTECHNOLOGY	CHARLESTON, SC +
JAN 14	P.M.	CANCERLIT/PDQ	HOUSTON, TX #
JAN 28		MEDLINE/MeSH/HEALTH	LOS ANGELES, CA *
JAN 29	A.M.	BIOTECHNOLOGY	LOS ANGELES, CA *
FEB 1		MEDLINE/MeSH/HEALTH	BETHESDA, MD
FEB 2	A.M.	CANCERLIT/PDQ	BETHESDA, MD
FEB 2	P.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	BETHESDA, MD
FEB 3	A.M.	BIOTECHNOLOGY	BETHESDA, MD
FEB 3	P.M.	POPLINE/BIOETHICS/HISTLINE	BETHESDA, MD
FEB 4		TECHNICAL SERVICES DATABASES	BETHESDA, MD
FEB 11-12		CHEM/TOX/TOXNET	NEW YORK, NY +
FEB 11-12		CHEM/TOX/TOXNET	SEATTLE, WA *
FEB 12	P.M.	BIOTECHNOLOGY	SALT LAKE CITY, UT #
FEB 25-26		CHEM/TOX/TOXNET	BETHESDA, MD
MAR 4	A.M.	CANCERLIT/PDQ	HOUSTON, TX #
MAR 4	P.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	HOUSTON, TX #
MAR 18		MEDLINE/MeSH/HEALTH	GAINESVILLE, FL +
MAR 19	A.M.	BIOTECHNOLOGY	GAINESVILLE, FL +
MAR 25-26		CHEM/TOX/TOXNET	BETHESDA, MD
MAR 25	A.M.	CANCERLIT/PDQ	SAN FRANCISCO, CA *
MAR 25	P.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	SAN FRANCISCO, CA *
APR 2	A.M.	CANCERLIT/PDQ	CHICAGO, IL #
APR 2	P.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	CHICAGO, IL #
APR 19		MEDLINE/MeSH/HEALTH	BETHESDA, MD
APR 20	A.M.	CANCERLIT/PDQ	BETHESDA, MD
APR 20	P.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	BETHESDA, MD
APR 21	A.M.	BIOTECHNOLOGY	BETHESDA, MD
APR 21	P.M.	POPLINE/BIOETHICS/HISTLINE	BETHESDA, MD
APR 22		TECHNICAL SERVICES DATABASES	BETHESDA, MD
APR 29	A.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	BOSTON, MA +
APR 29	P.M.	BIOTECHNOLOGY	BOSTON, MA +
APR 29		TECHNICAL SERVICES DATABASES	LITTLE ROCK, AR #
APR 29-30		CHEM/TOX/TOXNET	LOS ANGELES, CA *
APR 30	P.M.	BIOTECHNOLOGY	LITTLE ROCK, AR #

1993 — SPECIALIZED MODULES (cont'd)

NO SPECIALIZED MODULES IN MAY

JUN 10-11		CHEM/TOX/TOXNET	BETHESDA, MD
JUN 10	A.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	JACKSON, MS +
JUN 10	P.M.	CANCERLIT/PDQ	JACKSON, MS +
JUN 18	A.M.	CANCERLIT/PDQ	MINNEAPOLIS, MN #
JUN 18	P.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	MINNEAPOLIS, MN #
JUN 24	A.M.	CANCERLIT/PDQ	LOS ANGELES, CA *
JUN 24	P.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	LOS ANGELES, CA *
JUL 15-16		CHEM/TOX/TOXNET	BETHESDA, MD
JUL 15-16		CHEM/TOX/TOXNET	CHICAGO, IL #
JUL 22		MEDLINE/MeSH/HEALTH	BOZEMAN, MT *
JUL 22-23		CHEM/TOX/TOXNET	HANOVER, NH +
JUL 23	A.M.	CANCERLIT/PDQ	BOZEMAN, MT *
AUG 12	A.M.	BIOTECHNOLOGY	SYRACUSE, NY +
AUG 12	P.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	SYRACUSE, NY +
AUG 13		MEDLINE/MeSH/HEALTH	SYRACUSE, NY +
AUG 26-27		CHEM/TOX/TOXNET	BETHESDA, MD
AUG 26	A.M.	CANCERLIT/PDQ	SEATTLE, WA *
AUG 26	P.M.	BIOTECHNOLOGY	SEATTLE, WA *
SEP 29-30		CHEM/TOX/TOXNET	BOZEMAN, MT *
SEP 30	A.M.	CANCERLIT/PDQ	NEW YORK, NY +
SEP 30	P.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	NEW YORK, NY +
OCT 7- 8		CHEM/TOX/TOXNET	BETHESDA, MD
OCT 18		MEDLINE/MeSH/HEALTH	BETHESDA, MD
OCT 19	A.M.	CANCERLIT/PDQ	BETHESDA, MD
OCT 19	P.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	BETHESDA, MD
OCT 20	A.M.	BIOTECHNOLOGY	BETHESDA, MD
OCT 20	P.M.	POPLINE/BIOETHICS/HISTLINE	BETHESDA, MD
OCT 21		TECHNICAL SERVICES DATABASES	BETHESDA, MD
OCT 21	A.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	LOS ANGELES, CA *
OCT 21	P.M.	BIOTECHNOLOGY	LOS ANGELES, CA *
OCT 21-22		CHEM/TOX/TOXNET	OMAHA, NE #
NOV 18-19		CHEM/TOX/TOXNET	BALTIMORE, MD +
NOV 18-19		CHEM/TOX/TOXNET	HOUSTON, TX #
DEC 16	A.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS	FARMINGTON, CT +
DEC 16	P.M.	CANCERLIT/PDQ	FARMINGTON, CT +
DEC 17	A.M.	BIOTECHNOLOGY	FARMINGTON, CT +

1993 NLM ONLINE TRAINING SCHEDULE
BY SITE OF TRAINING CLASS

Legend:

A.M. module taught in the morning

P.M. module taught in the afternoon

ALL *Fundamentals of MEDLARS Searching* classes are FREE.+ module taught by Eastern Online Training Center
(2-day module=\$85; 1-day module=\$85; 1/2-day module & MEDLARS R&R=\$45)# module taught by Midlands Online Training Center
(2-day module=\$85; 1-day module=\$65; 1/2-day module=\$40; MEDLARS R&R=\$30)* module taught by Western Online Training Center
(2-day module=\$75; 1-day module=\$65; 1/2-day module & MEDLARS R&R=\$45)

no indicator means class taught by NLM instructors

ARIZONA, Phoenix *

JUN 7 A.M. MEDLARS: REFRESHER & REVIEW

ARKANSAS, Little Rock +

APR 26-28 FUNDAMENTALS OF MEDLARS SEARCHING

APR 29 TECHNICAL SERVICES DATABASES

APR 30 A.M. MEDLARS: REFRESHER & REVIEW

APR 30 P.M. BIOTECHNOLOGY

CALIFORNIA, Anaheim *

FEB 3 A.M. MEDLARS: REFRESHER & REVIEW

CALIFORNIA, Los Angeles *

JAN 25-27 FUNDAMENTALS OF MEDLARS SEARCHING

JAN 28 MEDLINE/MeSH/HEALTH

JAN 29 A.M. BIOTECHNOLOGY

APR 26-28 FUNDAMENTALS OF MEDLARS SEARCHING

APR 29-30 CHEM/TOX/TOXNET

JUN 21-23 FUNDAMENTALS OF MEDLARS SEARCHING

JUN 24 A.M. CANCERLIT/PDQ

JUN 24 P.M. AIDSLINE/AIDSTRIALS/AIDSDRUGS

OCT 18-20 FUNDAMENTALS OF MEDLARS SEARCHING

OCT 21 A.M. AIDSLINE/AIDSTRIALS/AIDSDRUGS

OCT 21 P.M. BIOTECHNOLOGY

CALIFORNIA, Pasadena *

FEB 17 A.M. MEDLARS: REFRESHER & REVIEW

CALIFORNIA, Riverside *

APR 8 A.M. MEDLARS: REFRESHER & REVIEW

CALIFORNIA, San Diego *

MAR 2 A.M. MEDLARS: REFRESHER & REVIEW

CALIFORNIA, San Francisco *

MAR 22-24 FUNDAMENTALS OF MEDLARS SEARCHING

MAR 25 A.M. CANCERLIT/PDQ

MAR 25 P.M. AIDSLINE/AIDSTRIALS/AIDSDRUGS

CALIFORNIA, Santa Barbara *

MAR 9 A.M. MEDLARS: REFRESHER & REVIEW

CONNECTICUT, Farmington +

FEB 2 MEDLARS: REFRESHER & REVIEW
 DEC 13-15 FUNDAMENTALS OF MEDLARS SEARCHING
 DEC 16 P.M. CANCERLIT/PDQ
 DEC 17 A.M. BIOTECHNOLOGY

FLORIDA, Gainesville +

MAR 15-17 FUNDAMENTALS OF MEDLARS SEARCHING
 MAR 18 MEDLINE/MeSH/HEALTH
 MAR 19 A.M. BIOTECHNOLOGY

GEORGIA, Atlanta +

MAY 10 MEDLARS: REFRESHER & REVIEW
 MAY 11-13 FUNDAMENTALS OF MEDLARS SEARCHING

ILLINOIS, Chicago #

JAN 28 P.M. MEDLARS: REFRESHER & REVIEW
 MAR 30- APR 1 FUNDAMENTALS OF MEDLARS SEARCHING
 APR 2 A.M. CANCERLIT/PDQ
 APR 2 P.M. AIDSLINE/AIDSTRIALS/AIDSDRUGS
 JUL 12-14 FUNDAMENTALS OF MEDLARS SEARCHING
 JUL 15-16 CHEM/TOX/TOXNET

KANSAS, Wichita #

JAN 26 A.M. MEDLARS: REFRESHER & REVIEW

MARYLAND, Baltimore +

NOV 15-17 FUNDAMENTALS OF MEDLARS SEARCHING
 NOV 18-19 CHEM/TOX/TOXNET

MARYLAND, Bethesda

JAN 11-13 FUNDAMENTALS OF MEDLARS SEARCHING
 JAN 14-15 CHEM/TOX/TOXNET
 FEB 1 MEDLINE/MeSH/HEALTH
 FEB 2 A.M. CANCERLIT/PDQ
 FEB 2 P.M. AIDSLINE/AIDSTRIALS/AIDSDRUGS
 FEB 3 A.M. BIOTECHNOLOGY
 FEB 3 P.M. POPLINE/BIOETHICS/HISTLINE
 FEB 4 TECHNICAL SERVICES DATABASES
 FEB 22-24 FUNDAMENTALS OF MEDLARS SEARCHING
 FEB 25-26 CHEM/TOX/TOXNET
 MAR 22-24 FUNDAMENTALS OF MEDLARS SEARCHING
 MAR 25-26 CHEM/TOX/TOXNET
 APR 19 MEDLINE/MeSH/HEALTH
 APR 20 A.M. CANCERLIT/PDQ
 APR 20 P.M. AIDSLINE/AIDSTRIALS/AIDSDRUGS
 APR 21 A.M. BIOTECHNOLOGY
 APR 21 P.M. POPLINE/BIOETHICS/HISTLINE
 APR 22 TECHNICAL SERVICES DATABASES
 JUN 7-9 FUNDAMENTALS OF MEDLARS SEARCHING
 JUN 10-11 CHEM/TOX/TOXNET
 JUL 12-14 FUNDAMENTALS OF MEDLARS SEARCHING
 JUL 15-16 CHEM/TOX/TOXNET
 AUG 23-25 FUNDAMENTALS OF MEDLARS SEARCHING
 AUG 26-27 CHEM/TOX/TOXNET

MARYLAND, Bethesda (continued)

OCT 4-6		FUNDAMENTALS OF MEDLARS SEARCHING
OCT 7-8		CHEM/TOX/TOXNET
OCT 18		MEDLINE/MeSH/HEALTH
OCT 19	A.M.	CANCERLIT/PDQ
OCT 19	P.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS
OCT 20	A.M.	BIOTECHNOLOGY
OCT 20	P.M.	POPLINE/BIOETHICS/HISTLINE
OCT 21		TECHNICAL SERVICES DATABASES

MASSACHUSETTS, Boston +

APR 26-28		FUNDAMENTALS OF MEDLARS SEARCHING
APR 29	A.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS
APR 29	P.M.	BIOTECHNOLOGY
APR 30		MEDLARS: REFRESHER & REVIEW

MINNESOTA, Minneapolis #

JUN 15-17		FUNDAMENTALS OF MEDLARS SEARCHING
JUN 18	A.M.	CANCERLIT/PDQ
JUN 18	P.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS

MISSISSIPPI, Jackson +

JUN 7-9		FUNDAMENTALS OF MEDLARS SEARCHING
JUN 10	A.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS
JUN 10	P.M.	CANCERLIT/PDQ

MONTANA, Bozeman *

JUL 19-21		FUNDAMENTALS OF MEDLARS SEARCHING
JUL 22		MEDLINE/MeSH/HEALTH
JUL 23	A.M.	CANCERLIT/PDQ
SEP 29-30		CHEM/TOX/TOXNET

NEBRASKA, Omaha #

OCT 18-20		FUNDAMENTALS OF MEDLARS SEARCHING
OCT 21-22		CHEM/TOX/TOXNET

NEVADA, Reno *

APR 15	A.M.	MEDLARS: REFRESHER & REVIEW
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NEW HAMPSHIRE, Hanover +

JUL 19-21		FUNDAMENTALS OF MEDLARS SEARCHING
JUL 22-23		CHEM/TOX/TOXNET

NEW YORK, Buffalo +

MAR 2		MEDLARS: REFRESHER & REVIEW
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NEW YORK, New York +

JAN 28		MEDLARS: REFRESHER & REVIEW
FEB 8-10		FUNDAMENTALS OF MEDLARS SEARCHING
FEB 11-12		CHEM/TOX/TOXNET
SEP 27-29		FUNDAMENTALS OF MEDLARS SEARCHING
SEP 30	A.M.	CANCERLIT/PDQ
SEP 30	P.M.	AIDSLINE/AIDSTRIALS/AIDSDRUGS

NEW YORK, Syracuse +

MAR 29 MEDLARS: REFRESHER & REVIEW
AUG 9-11 FUNDAMENTALS OF MEDLARS SEARCHING
AUG 12 A.M. BIOTECHNOLOGY +
AUG 12 P.M. AIDSLINE/AIDSTRIALS/AIDSDRUGS
AUG 13 MEDLINE/MeSH/HEALTH

OHIO, Cleveland #

JAN 21 P.M. MEDLARS: REFRESHER & REVIEW

PENNSYLVANIA, Pittsburgh +

FEB 25 MEDLARS: REFRESHER & REVIEW

SOUTH CAROLINA, Charleston +

JAN 11-13 FUNDAMENTALS OF MEDLARS SEARCHING
JAN 14 A.M. CANCERLIT/PDQ
JAN 14 P.M. BIOTECHNOLOGY
JAN 15 A.M. MEDLARS: REFRESHER & REVIEW

TEXAS, Houston #

JAN 12-13 CHEM/TOX/TOXNET
JAN 14 A.M. MEDLARS: REFRESHER & REVIEW
MAR 1-3 FUNDAMENTALS OF MEDLARS SEARCHING
MAR 4 A.M. CANCERLIT/PDQ
MAR 4 P.M. AIDSLINE/AIDSTRIALS/AIDSDRUGS
NOV 15-17 FUNDAMENTALS OF MEDLARS SEARCHING
NOV 18-19 CHEM/TOX/TOXNET

UTAH, Salt Lake City #

FEB 9-11 FUNDAMENTALS OF MEDLARS SEARCHING
FEB 12 A.M. MEDLARS: REFRESHER & REVIEW
FEB 12 P.M. BIOTECHNOLOGY

WASHINGTON, Seattle *

FEB 8-10 FUNDAMENTALS OF MEDLARS SEARCHING
FEB 11-12 CHEM/TOX/TOXNET
AUG 23-25 FUNDAMENTALS OF MEDLARS SEARCHING
AUG 26 A.M. CANCERLIT/PDQ
AUG 26 P.M. BIOTECHNOLOGY

1993 NLM ONLINE TRAINING SCHEDULE
BY DATABASE

Legend:

A.M. module taught in the morning

P.M. module taught in the afternoon

ALL *Fundamentals of MEDLARS Searching* classes are FREE.+ module taught by Eastern Online Training Center
(two-day module=\$85; one-day module=\$85; half-day module=\$45)# module taught by Midlands Online Training Center
(two-day module=\$85; one-day module=\$65; half-day module=\$40)* module taught by Western Online Training Center
(two-day module=\$75; one-day module=\$65; half-day module=\$45)

no indicator means class taught by NLM instructors

AIDSLINE/AIDSTRIALS/AIDSDRUGS

AIDSLINE/AIDSTRIALS/AIDSDRUGS Specialized Module

FEB 2	P.M.	BETHESDA, MD
MAR 4	P.M.	HOUSTON, TX #
MAR 25	P.M.	SAN FRANCISCO, CA *
APR 2	P.M.	CHICAGO, IL #
APR 20	P.M.	BETHESDA, MD
APR 29	A.M.	BOSTON, MA +
JUN 10	A.M.	JACKSON, MS +
JUN 18	P.M.	MINNEAPOLIS, MN #
JUN 24	P.M.	LOS ANGELES, CA *
AUG 12	P.M.	SYRACUSE, NY +
SEP 30	P.M.	NEW YORK, NY +
OCT 19	P.M.	BETHESDA, MD
OCT 21	A.M.	LOS ANGELES, CA *
DEC 16	A.M.	FARMINGTON, CT +

AVLINE — see TECHNICAL SERVICES DATABASES**BIOETHICS** — see POPLINE/BIOETHICS/HISTLINE**BIOTECHNOLOGY SEARCHING (BIOTECHSEEK and MEDLINE)**

BIOTECHNOLOGY Specialized Module

JAN 14	P.M.	CHARLESTON, SC +
JAN 29	A.M.	LOS ANGELES, CA *
FEB 3	A.M.	BETHESDA, MD
FEB 12	P.M.	SALT LAKE CITY, UT #
MAR 19	A.M.	GAINESVILLE, FL +
APR 21	A.M.	BETHESDA, MD
APR 29	P.M.	BOSTON, MA +
APR 30	P.M.	LITTLE ROCK, AR #
AUG 12	A.M.	SYRACUSE, NY +
AUG 26	P.M.	SEATTLE, WA *
OCT 20	A.M.	BETHESDA, MD
OCT 21	P.M.	LOS ANGELES, CA *
DEC 17	A.M.	FARMINGTON, CT +

CANCERLIT/PDQ

CANCERLIT/PDQ Specialized Module:

JAN 14	A.M.	CHARLESTON, SC +
JAN 14	P.M.	HOUSTON, TX #
FEB 2	A.M.	BETHESDA, MD
MAR 4	A.M.	HOUSTON, TX #
MAR 25	A.M.	SAN FRANCISCO, CA *
APR 2	A.M.	CHICAGO, IL #
APR 20	A.M.	BETHESDA, MD
JUN 10	P.M.	JACKSON, MS +
JUN 18	A.M.	MINNEAPOLIS, MN #
JUN 24	A.M.	LOS ANGELES, CA *
JUL 23	A.M.	BOZEMAN, MT *
AUG 26	A.M.	SEATTLE, WA *
SEP 30	A.M.	NEW YORK, NY +
OCT 19	A.M.	BETHESDA, MD
DEC 16	P.M.	FARMINGTON, CT +

CATLINE — *see* TECHNICAL SERVICES DATABASES

CHEMLINE/ChemID/TOXLINE/TOXLIT/TOXNET

CHEM/TOX/TOXNET Specialized Module:

JAN 12-13		HOUSTON, TX #
JAN 14-15		BETHESDA, MD
FEB 11-12		NEW YORK, NY +
FEB 11-12		SEATTLE, WA *
FEB 25-26		BETHESDA, MD
MAR 25-26		BETHESDA, MD
APR 29-30		LOS ANGELES, CA *
JUN 10-11		BETHESDA, MD
JUL 15-16		BETHESDA, MD
JUL 15-16		CHICAGO, IL #
JUL 22-23		HANOVER, NH +
AUG 26-27		BETHESDA, MD
SEP 29-30		BOZEMAN, MT *
OCT 7- 8		BETHESDA, MD
OCT 21-22		OMAHA, NE #
NOV 18-19		BALTIMORE, MD +
NOV 18-19		HOUSTON, TX #

HEALTH — *see* MEDLINE/MeSH/HEALTH

HISTLINE — *see* POPLINE/BIOETHICS/HISTLINE

MEDLINE/SDILINE/MeSH VOCABULARY

•NEW SEARCHERS:

See the *FUNDAMENTALS OF MEDLARS SEARCHING* schedule

•EXPERIENCED SEARCHERS:

MEDLINE/MeSH/HEALTH Specialized Module:

JAN 28	LOS ANGELES, CA *
FEB 1	BETHESDA, MD
MAR 18	GAINESVILLE, FL +
APR 19	BETHESDA, MD
JUL 22	BOZEMAN, MT *
AUG 13	SYRACUSE, NY +
OCT 18	BETHESDA, MD

Also see *MEDLARS: REFRESHER and REVIEW* Schedule (APPENDIX F)**MeSH VOCABULARY** — *see* MEDLINE/SDILINE/MeSH VOCABULARY**NAME AUTHORITY FILE (NAF)** — *see* TECHNICAL SERVICES DATABASES**PDQ** — *see* CANCERLIT/PDQ**POPLINE/BIOETHICS/HISTLINE**

POPLINE/BIOETHICS/HISTLINE Specialized Module

FEB 3	P.M.	BETHESDA, MD
APR 21	P.M.	BETHESDA, MD
OCT 20	P.M.	BETHESDA, MD

SDILINE — *see* MEDLINE/SDILINE/MeSH VOCABULARY**SERLINE** — *see* TECHNICAL SERVICES DATABASES**TECHNICAL SERVICES DATABASES (CATLINE, AVLINE, SERLINE, NAME AUTHORITY FILE)**

TECHNICAL SERVICES Specialized Module:

FEB 4	BETHESDA, MD
APR 22	BETHESDA, MD
APR 29	LITTLE ROCK, AR #
OCT 21	BETHESDA, MD

TOXLINE/TOXLIT — *see* CHEMLINE/ChemID/TOXLINE/TOXLIT/TOXNET**TOXLIT** — *see* CHEMLINE/ChemID/TOXLINE/TOXLIT/TOXNET

REQUEST FOR NLM ONLINE TRAINING
(FUNDAMENTALS AND/OR SPECIALIZED MODULES)

The *Fundamentals of MEDLARS Searching* and the Specialized Modules concentrate on command language searching and thus are not recommended for *Grateful Med* searchers.

DATE: _____

TRAINEE NAME: _____ PHONE: (_____) _____ x _____

ORGANIZATION: _____

ADDRESS: _____

CITY, STATE, ZIP: _____

User ID code: _____ OR I am enclosing an application for a User ID code

1. FUNDAMENTALS OF MEDLARS SEARCHING (3-DAYS)

DATES/SITES REQUESTED: _____
1st Choice 2nd Choice

2. SPECIALIZED MODULES: (Requires familiarity with MEDLARS.)

Please fill in Dates/Sites requesting:

AIDSLINE/AIDSTRIALS/
AIDSDRUGS (1/2 Day) _____
1st Choice 2nd Choice

BIOTECHNOLOGY
(1/2 Day) _____
1st Choice 2nd Choice

CANCERLIT/PDQ
(1/2 Day) _____
1st Choice 2nd Choice

CHEM/TOX/TOXNET
(2 Days) _____
1st Choice 2nd Choice

MEDLINE/MeSH/HEALTH
(1 Day) _____
1st Choice 2nd Choice

POPLINE/BIOETHICS/
HISTLINE (1/2 Day) _____
1st Choice 2nd Choice

TECHNICAL SERVICES
DATABASES (1 Day) _____
1st Choice 2nd Choice

MAILING/FAXING INSTRUCTIONS — SEE REVERSE SIDE OF FORM

REGISTRATION FORMS SHOULD BE MAILED/FAXED ACCORDING TO THE FOLLOWING LEGEND:

Site = Bethesda, MD (site has no symbol indicator)

Mail/FAX form to:

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

FAX: 301/496-0822 Questions? Call 1-800-638-8480

Site has symbol "+"

Mail/FAX form to:

Eastern Online Training Center
The New York Academy of Medicine
2 East 103rd St.
New York, NY 10029

FAX: 212/722-7650 Questions? Call 1-800-338-7657 (press #2) OR
212/876-8763

Site has symbol "#"

Mail/FAX form to:

Midlands Online Training Center
University of Nebraska
McGoogan Library of Medicine
600 South 42nd St.
Omaha, NE 68198-6706

FAX: 402/559-5482 Questions? Call 1-800-338-7657 (press #2) OR
402/559-4326

Site has symbol "*"**

Mail/FAX form to:

Western Online Training Center
Louise Darling Biomedical Library
University of California
10833 Le Conte Ave.
Los Angeles, CA 90024-1798

FAX: 310/825-5389 Questions? Call 1-800-338-7657 (press #2) OR
310/825-1200

ALL FUNDAMENTALS CLASSES ARE FREE

**DO NOT SEND PAYMENT WITH REGISTRATION FOR SPECIALIZED MODULES;
THE FEE WILL BE PAID UPON CONFIRMATION OF CLASS.
INSTRUCTIONS ON PAYMENT WILL BE SENT TO YOU.**

**MEDLARS: REFRESHER & REVIEW
1993 SCHEDULE**

NOTE: This schedule is subject to change. Call your Regional Online Training Center if you would like to schedule a MEDLARS: R&R workshop in your area.

Legend:

- | | |
|------|---------------------------------------------------------------------------------------------------------|
| A.M. | module taught in the morning |
| P.M. | module taught in the afternoon |
| + | module taught by Eastern Online Training Center (212/876-8763 or 1-800-338-7657)
(MEDLARS R&R=\$45) |
| # | module taught by Midlands Online Training Center (402/559-4326 or 1-800-338-7657)
(MEDLARS R&R=\$30) |
| * | module taught by Western Online Training Center (310/825-1200 or 1-800-338-7657)
(MEDLARS R&R=\$45) |

JANUARY	14	A.M.	HOUSTON, TX #
	15	A.M.	CHARLESTON, SC +
	21	P.M.	CLEVELAND, OH #
	26	A.M.	WICHITA, KS #
	28	A.M.	CHICAGO, IL #
	28	A.M.	NEW YORK, NY +
FEBRUARY	2	A.M.	FARMINGTON, CT +
	3	A.M.	ANAHEIM, CA *
	12	A.M.	SALT LAKE CITY, UT #
	17	A.M.	PASADENA, CA *
	25	A.M.	PITTSBURGH, PA +
MARCH	2	A.M.	BUFFALO, NY +
	2	A.M.	SAN DIEGO, CA *
	9	A.M.	SANTA BARBARA, CA *
	29	A.M.	SYRACUSE, NY +
APRIL	8	A.M.	RIVERSIDE, CA *
	15	A.M.	RENO, NV *
	30	A.M.	BOSTON, MA +
	30	A.M.	LITTLE ROCK, AR #
MAY	10	A.M.	ATLANTA, GA +
JUNE	7	A.M.	PHOENIX, AZ *

HOW TO REGISTER: Call the Online Regional Training Center sponsoring the workshop according to the legend in the box at the top of this schedule.

REVISED 1992 UPDATE SCHEDULE FOR MEDLINE

<u>Entry Month</u>	<u>Updated MEDLINE Available</u>	<u>Date of Entry (DA) Ranges</u>
9211 (EM)		
Part 1	Sep 5	920828-920903
Part 2	Sep 12	920904-920910
Part 3	Sep 19	920911-920917
Part 4	Sep 26	920918-920924
9212 (EM)		
Part 1	Oct 3	920925-921001
Part 2	Oct 10	921002-921008
Part 3	Oct 17	921009-921015
Part 4	Oct 24	921016-921022
9301 (EM)	Dec 14	921023-921125

REVISED 1992 MONTHLY UPDATE SCHEDULE FOR SDILINE

<u>Entry Month</u>	<u>SDILINE Available</u>
9211 (EM)	Sep 26
9212 (EM)	Oct 24

REVISED 1992 UPDATE SCHEDULE FOR AIDSLINE

<u>Entry Month</u>	<u>Updated AIDSLINE Available</u>
9211 (EM)	
Part 1	Sep 5
Part 2	Sep 12
Part 3	Sep 19
Part 4	Sep 26
Part 5	Oct 6
9212 (EM)	
Part 1	Oct 3
Part 2	Oct 10
Part 3	Oct 17
Part 4	Oct 24
Part 5	Nov 10

NTIS Order Form



(703) 487-4650

For Rush Service—1-800-553-NTIS

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

Rush orders are usually shipped next day by *overnight* courier in the U.S. or by Air Mail outside the U.S.

Add \$15 per report for the U.S., Canada, and Mexico or \$25 for other countries. Rush is also available for computer products. *Do not mail rush orders.*

To order subscriptions, call (703) 487-4630.

FAX this form (703) 321-8547

Address

Date _____ DTIC Users Code _____
 Contract No. _____ Last six digits _____

Last Name _____ First Initial _____
 Title _____
 Company _____
 Address _____
 City/State/ZIP _____
 Attention _____
 Telephone number _____ FAX number _____

Payment

Charge my NTIS Deposit Account _____

Charge my

Account No. _____ Exp. _____

Check/Money order enclosed for \$ _____
(Payable in U.S. dollars)

Purchase order enclosed, **add \$7.50** (U.S., Canada & Mexico only)

Purchase Order No. _____

Signature: _____
(Required to validate all orders)

Order Selection

Enter NTIS order numbers <small>(Ordering by title alone will delay your order)</small>	Customer Routing <small>(up to 8 digits)</small>	Quantity	Unit Price	Micro-fiche** <input type="checkbox"/> Yes	Specify density for tape orders		Internat'l Air Mail <small>(see reverse)</small>	TOTAL PRICE
					1600 bpi	6250 bpi		
1.				<input type="checkbox"/> Yes				
2.				<input type="checkbox"/> Yes				
3.				<input type="checkbox"/> Yes				
4.				<input type="checkbox"/> Yes				
5.				<input type="checkbox"/> Yes				
6.				<input type="checkbox"/> Yes				
7.				<input type="checkbox"/> Yes				
8.				<input type="checkbox"/> Yes				
9.				<input type="checkbox"/> Yes				
10.				<input type="checkbox"/> Yes				

OVER—Order continued on reverse

SUBTOTAL from other side	
Handling Fee U.S., Canada & Mexico—\$3 Other countries—\$4	
Purchase Order Fee, if required—\$7.50	
GRAND TOTAL	

*NTIS will label each item with up to eight characters of your organization's routing code.

**Microfiche is available for most printed reports.

Order Selection (Cont.)

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13.				<input type="checkbox"/> Yes				
14.				<input type="checkbox"/> Yes				
15.				<input type="checkbox"/> Yes				
16.				<input type="checkbox"/> Yes				
17.				<input type="checkbox"/> Yes				
18.				<input type="checkbox"/> Yes				
19.				<input type="checkbox"/> Yes				
20.				<input type="checkbox"/> Yes				
21.				<input type="checkbox"/> Yes				
22.				<input type="checkbox"/> Yes				
23.				<input type="checkbox"/> Yes				
24.				<input type="checkbox"/> Yes				
25.				<input type="checkbox"/> Yes				
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These prices are for the U.S., Canada & Mexico; prices for other countries are double, except for "N" codes.

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A22-A25 59.00	E09 33
A99 *	E10 36
	E11 39
	E12 43
	E13 46
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	E18 69
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	E99 *

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D16 840
D17 890
D18 950
D19 1,000
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T08 940
T09 1,050
T10 1,160
T11 1,270
T12 1,390
T13 1,500
T14 1,620
T15 1,740
T16 1,850
T17 1,960
T18 2,080
T19 2,190
T99 *

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*Two live broadcast via satellite to the Nation's hospitals--October 22 and November 5, 1992
12 - 2pm ET*

To arrange for your hospital to receive the broadcasts, please mail or fax this form **by September 15, 1992**, to Healthcare Informatics Telecom Network, Woods Road, Box 263, Cold Spring, NY 10516 (phone: 914/265-2322, fax: 914/265-4635). Sites will receive the final program and technical details about 2 weeks before the broadcast. This form should be filled out by the hospital's satellite or audiovisual coordinator.

Name: _____

Title: _____

Hospital: _____

Street: _____

City/State/ZIP: _____

Telephone: () _____

Fax: () _____

Number of attendees expected at your site _____

Please circle the correct responses so we may be of best service to you.

Do you have a satellite dish?	Yes	No
If yes, what type? <i>(If you are not sure, please ask your AV coordinator. Circle all that apply.)</i>	C band steerable	KU band steerable
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Technical Bulletin

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[Editor's Note: This issue of the *Technical Bulletin* contains information about new features expected for the 1993 system. New ELHILL search enhancements are introduced and there is a separate article concentrating on topics related to Year-End Processing. Year-End Processing involves large-scale maintenance of MEDLINE, the MEDLINE Backfiles, HEALTH, CANCERLIT, and other databases, primarily to reflect changes in the MeSH vocabulary. Update schedules for many of the databases are listed in Appendices A-C.]

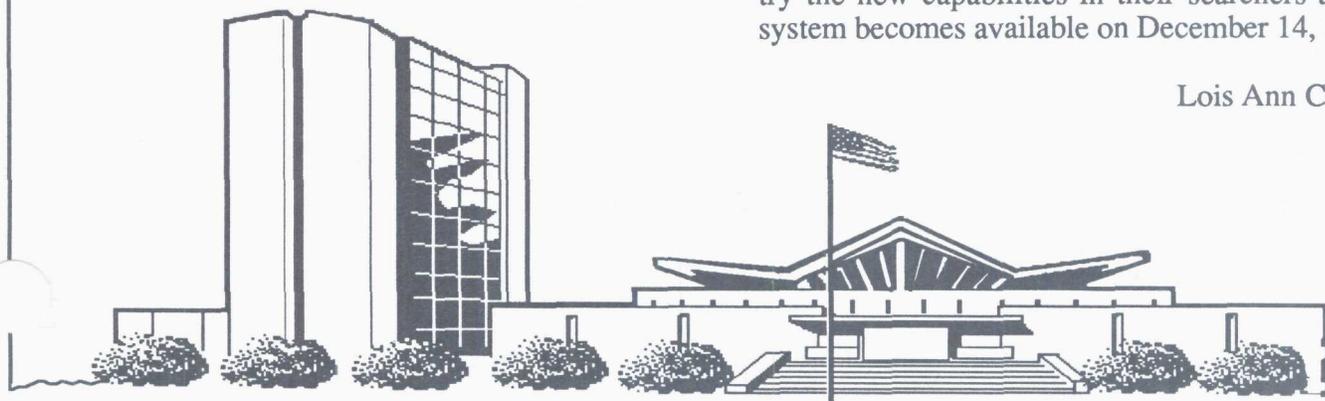
1993 Pricing Announcement

Of particular interest to our users is the announcement of reduced charges effective January 1, 1993 (page 6).

1993 ELHILL® Enhancements

The National Library of Medicine has added several new features to make the retrieval of data from the ELHILL databases in 1993 easier and more efficient. Improved computer capabilities have allowed the Backfiles to be reconfigured into four larger files from the previously existing six smaller ones (page 7). The number of STOPWORDS have been reduced (page 13). Several new PRE-EXPLOSIONS have been introduced including AGED and INFANT (page 21) and six new Publication Types have been added (page 20). These are just the highlights of the new features. Searchers are urged to read the issue carefully and then try the new capabilities in their searchers after the system becomes available on December 14, 1992.

Lois Ann Colaianni



MEDLARS® DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL® COMPUTER				
AIDSDRUGS	144		18 JUL 92	
AIDSLINE®**	67,636	JAN 80-OCT 92	15 AUG 92	9210(EM)
AIDSTRIALS	417		08 AUG 92	
AVLINE®	24,100	THROUGH 1992	13 AUG 92	
BIOETHICS®	35,699	JAN 73-AUG 92	31 JUL 92	9208(EM)
BIOTECHSEEK	2,467	JAN 90-SEP 92	01 AUG 92	9209(EM)
CANCERLIT®	897,942	JAN 63-AUG 92	01 AUG 92	9208(EM)
CATLINE®	697,690	THROUGH 1992	13 AUG 92	
CHEMID®	267,994		22 FEB 92	
CHEMLINE®	1,105,428		15 JUL 92	9206(EM)
DENTALPROJ™	786		02 MAY 92	
DIRLINE®	13,954		09 MAY 92	
DOCUSER®	13,141		08 AUG 92	
HEALTH®	623,262	JAN 75-SEP 92	01 AUG 92	9209(EM)
HISTLINE®	105,667		01 AUG 92	9208(EM)
MEDLINE®*	1,245,507	JAN 89-OCT 92	15 AUG 92	9210(EM)
MED86	1,009,361	JAN 86-DEC 88	25 JUL 92	
MED83	892,034	JAN 83-DEC 85	25 JUL 92	
MED80	803,673	JAN 80-DEC 82	25 JUL 92	
MED77	776,468	JAN 77-DEC 79	17 JUL 92	
MED72	1,176,178	JAN 72-DEC 76	06 JUN 92	
MED66	1,312,492	JAN 66-DEC 71	13 JUN 92	
MESH VOC®	83,966	1992	15 AUG 92	
NAME AUTH®	376,985		15 AUG 92	
PDQ®		THRU AUG 92	03 AUG 92	
POPLINE®	191,419	1970-AUG 92	08 AUG 92	9208(EM)
SDILINE®	30,564	AUG 92	25 JUL 92	9209(EM)
SERLINE®	79,208	1992	04 AUG 92	
TOXLINE®	1,084,014	1981-1992	08 AUG 92	9208(EM)
TOXLINE65	707,236	PRE 1965-1980	07 MAR 92	
TOXLIT®	1,071,263	1981-1992	08 AUG 92	9208(EM)
TOXLIT65	586,405	1965-1980	01 SEP 87	

*N.B. FILE IS UPDATED WEEKLY; THIS IS PART 1 OF 6.

**N.B. FILE IS UPDATED WEEKLY; THIS IS PART 1 OF 5.

TOXNET® COMPUTER

CCRIS	3,686		14 JUL 92	
DART™	13,148		08 AUG 92	
DBIR®	1,903		03 JUN 92	
EMICBACK	71,871		08 JUL 90	
ETICBACK	49,593		08 JUL 90	
GENE-TOX	2,919		15 JUN 92	
HSDB®	4,316		30 JUL 92	
IRIS	612		08 AUG 92	
RTECS®	114,247		19 MAY 92	
TRI87	80,130		30 MAR 92	
TRI88	86,416		31 MAR 92	
TRI89	85,430		24 APR 92	
TRI90	83,407		10 APR 92	
TRIFACTS	326		10 APR 92	

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

TECHNICAL NOTES

VTAM: NEW ELHILL OPERATING SYSTEM

In August, the ELHILL databases were switched over to the Virtual Telecommunications Access Method (VTAM) operating system. One major advantage of VTAM is the ability to send BROADCAST messages up to 20 lines long, rather than the two-lines allowed under our old system. BROADCAST messages are received immediately after the WELCOME message during the login process and typically include announcements about recent database updates, scheduled system downtime, and other items. Items in the online NEWS often include more description than is included in BROADCAST messages. To view the NEWS, you may enter NEWS at any USER: prompt.

In VTAM, the command \$TIME (upper or lower case letters) displays the cumulative search or connect time or the time elapsed since the last \$TIME command. The current Eastern time as shown on the NLM computer and the current date is also displayed.

NEW TOLL-FREE WATS NUMBERS AND ACCESS PROCEDURES

NLM mailed notices in mid-September to MEDLARS searchers who call 1-800 WATS numbers to access MEDLARS databases. This material provided the new AT&T FTS2000 WATS numbers and procedures. Effective September 30, the WATS access to MEDLARS previously provided by the networks will be discontinued.

Users with Telenet, TYMNET, or CompuServe 1-800 numbers in the SETUP for Grateful Med or in a script file in a telecommunications program will need to enter the new FTS2000 WATS numbers to allow access to the NLM computers after September 30.

NEW FORMAT FOR INDEX MEDICUS IN 1993

Due to the continuing growth of Index Medicus, a new format will be instituted in 1993 which will facilitate handling and use of the printed issues. Part 1 of each issue will include Subject Section A - P. Part 2 of each issue will include Subject Section Q - Z, Author Section, and Bibliography of Medical Reviews.

INDEX MEDICUS, MESH, LJI 1993

The 1993 Index Medicus, Medical Subject Headings Black & White (MeSH) and List of Journals Indexed (LJI) are now available for order. Price and order information are as follows:

Index Medicus 1993 (annual subscription - includes MeSH and LJI)
Price: \$290 (\$363.50 non-U.S.)
GPO Order Code: IM93

Medical Subject Headings 1993 ("Black & White MeSH) (if ordered separately)
Price: \$41 (\$51.25 non-U.S.)
GPO Order Code: IM93 (Medical Subject Headings)

List of Journals Indexed in Index Medicus 1993 (if ordered separately)
Price: \$15 (\$18.75 non-U.S.)
GPO Order Code: IM93 (List of Journals Indexed)

Index Medicus Single Monthly Issue 1993
Price: \$41 (\$51.25 non-U.S.)
GPO Order Code: IM93 (month)

Orders should be sent to:

Superintendent of Documents
Government Printing Office
Washington, DC 20402-9371
FAX: 202-275-0019

NEW ABSTRACT AND INDEXING TAG IN SERLINE

The value MED may now be used in SERLINE to limit to MEDLINE journal titles. All titles included in Index Medicus as well as the Special List Nursing and Dental journals are retrieved when using the MED (AI) value. In order to limit to currently indexed titles, AND in the value of "1" in the Indexing Status (XS) field. See example below:

```
SS 1/C?
USER:
file SERLINE
PROG:
YOU ARE NOW CONNECT TO THE SERLINE
FILE.
```

```
SS 1/C?
USER:
med (ai) and 1 (xs)
PROG:
SS (1) PSTG (3724)
```

TOXNET NEWS

New DISPLAY OFFLINE Command

The DISPLAY OFFLINE command (abbreviated as DISP OFF) allows you to review and cancel TOXNET offline print requests. To see a list of your offline print titles, type DISPLAY OFFLINE. You are then given the opportunity to see more detailed information, including the search strategy, for each of your offline prints. You may also enter the word "PURGE", to cancel any of the offline print requests, provided the cancellation is made before the offline prints are processed that evening. For more information on this new command, type EXPLAIN DISPLAY OFFLINE at any USER: prompt in TOXNET.

TOXNET NEWS cont.

CAS Registry Number (RN) Check

The last digit of every RN is a check digit and serves to validate all other digits of the RN. TOXNET will now respond with the message:

```
"INVALIDCHECK DIGIT ON XX-XX-X PLEASE VERIFY
YOUR CAS REGISTRY NUMBER"
```

if you have entered a correctly formatted RN that has the wrong check digit. This message will alert you that the RN you are searching for is invalid and that you should recheck the Registry Number for a typographical error, transposition of numbers, etc. For more information, type EXPLAIN RN at any USER: prompt in TOXNET.

MEDLARS R&R WORKSHOP - SPRINGFIELD, IL

Newly scheduled: A MEDLARS: Refresher & Review Workshop will be held in the morning on December 4, 1992 in Springfield, IL. Please call the Midlands Online Training Center in Omaha, NE at 1-800-338-7657 (press #2) or 402-559-4326 for further information or to register for the workshop.

NEW NCI MONOGRAPHS AVAILABLE

The National Cancer Institute (NCI) announces the publication of three Journal of the National Cancer Institute monographs. These monographs contain the published proceedings of major conferences on important cancer topics. The new monographs are:

Treatment of Early Stage Breast Cancer
Price: \$10 (\$12.50 non-U.S.)
GPO Stock No.: 017-042-00282-6

ICCCR International Conference on Cancer
Prevention: Facts, Maybes & Rumors
Price: \$10 (\$12.50 non-U.S.)
GPO Stock No.: 017-042-00283-4

Biology of and Novel Therapeutic Approaches
for Epithelial Cancers of the Aerodigestive
Tract
Price: \$13 (\$16.25 non-U.S.)
GPO Stock No.: 017-042-00290-7

Orders should be sent to:

Superintendent of Documents
Government Printing Office
Washington, DC 20402-9371
FAX: 202-275-0019

NEW NTIS FAX BILLING NUMBER

The new National Technical Information Service (NTIS) FAX number for your billing questions is 703-487-4793. The phone number for help with your billing questions is still 1-800-423-9255.

ERRATUM NOTICE

The FAX number for the Eastern Online Training Center was incorrectly listed on page 46 of the July-August 1992 *Technical Bulletin*. The correct FAX number is 212-534-7042. A new registration form with the correct FAX number is reprinted in Appendix G in this issue.

DATABASE UPDATE SCHEDULES

The database update schedules are published in Appendices A, B, and C. These lists may be removed from this issue and posted near the searcher's computer.

PRE-EXPLOSIONS

The list of MeSH Pre-explosions for 1993 is printed in Appendix D. For your convenience the list of Subheading Pre-explosions is reprinted (it has not changed since last year) in Appendix E.

HOLIDAY SCHEDULE 1993

Appendix F is the NLM computer holiday schedule for 1993. The list is printed on one side so it may be removed easily from the issue and posted near the searcher's computer.

ONLINE CODES MAP

A new Online Codes Map showing distribution of code holders within the United States is provided in Appendix H.

*****PRICING ANNOUNCEMENT*****

NLM is pleased to announce a reduction in its fee schedule effective January 1, 1993. A detailed fee schedule will be published in the next NLM *Technical Bulletin*, but generally online charges will be reduced and tape licensees will no longer pay use charges. The license fees to receive the data and the foreign surcharge will remain in effect.

Congressional Committees have reaffirmed the position that the creation of the databases be supported through the appropriation process and that users pay access costs. This year the Committees specifically expressed an interest in a more restricted definition of access costs so as to reduce barriers in accessing NLM's valuable resources. This is consistent with NLM's objective of improving health professionals' access to information in order to assist the advancement of medical and related sciences and to aid in the progress of medicine and public health.

YEAR-END PROCESSING

Introduction

Each year, MEDLINE, its Backfiles, and other MEDLARS databases are updated to reflect changes in the Medical Subject Headings (MeSH) vocabulary. These changes in terminology reflect the dynamic nature of MeSH, as it attempts to capture the evolving vocabulary of medicine. NLM also makes other changes as required to database records.

Some searchers will have to make changes to their stored searches used for current awareness retrieval in NLM's Automatic SDI program. Generally, Grateful Med users do not have to take any direct action as a result of Year-End Processing. All users

may be assured that the annual changes to the vocabulary and other changes made to NLM databases serve to improve search retrieval.

MEDLINE Backfile Configuration—1993

During Year-End Processing, this year all 1989 year of publication citations and any other pre-1990 references indexed during 1992 (because these earlier journals were received during 1992) are pulled from MEDLINE and placed in the appropriate Backfiles. MEDLINE Backfiles and their years of coverage will change this year. MEDLINE will retain 1990 data forward. The good news is that this new backfile configuration will reduce the number of backfiles from six to four. The primary dates of coverage for MEDLINE and its larger Backfiles for 1993 will be as follows:

File	Aliases	Coverage
MEDLINE	MED	1990-1993
MED85	M85, BACK85, B85	1985-1989
MED80	M80, BACK80, B80	1980-1984
MED75	M75, BACK75, B75	1975-1979
MED66	M66, BACK66, B66	1966-1974

The following BACK aliases for former (1992) file names will take a user to the nearest new file:

- BACK86 maps to BACK85
- BACK83 maps to BACK80
- BACK77 maps to BACK75
- BACK72 maps to BACK66

Other former backfile aliases, e.g., those beginning with the prefixes MED—, or B—, or M—, will not work. BACK80 and BACK66 are valid file names for 1993, although the range of years will have changed as indicated in the chart above.

1993 MeSH

MEDLINE, HEALTH, and BIOSEEK files are expected to be available online with 9301 Entry Month (EM) data on Monday, December 14, 1992. The CANCERLIT 9212 (EM) update will be available online on December 14, 1992 with 1993 MeSH vocabulary. CATLINE and AVLINE are also expected to be updated with 1993 vocabulary on December 14, 1992. At that time, all searches using MeSH in these databases should conform to any changes introduced with the 1993 Medical Subject Headings. AIDSLINE is expected to be available with 1993 vocabulary sometime on or

after January 2, 1993. Other files using MeSH vocabulary (i.e., BIOETHICS, POPLINE, TOXLINE, DENTALPROJ, and AIDSTRIALS) will be maintained for 1993 vocabulary at later dates. Watch future issues of the *Technical Bulletin* and the online NEWS for announcements.

Changes to the MeSH vocabulary for 1993 are reflected in the various lists contained in the introduction to the Medical Subject Headings- Annotated Alphabetic List, 1993. This publication is available from the National Technical Information Service (NTIS); ordering information was provided in the July-August 1992 *Technical Bulletin*. [Editors Note: See related article, "Coming Attractions - MeSH" in this issue on pages 19-21.]

Current Grateful Med Version 6.0 PC users will receive an update incorporating 1993 MeSH vocabulary in early 1993. Macintosh users of Grateful Med will receive Version 2.0 which will include 1993 vocabulary in early 1993.

STORESEARCHES, Automatic SDI'S, and Saved Searches

All stored searches including Automatic SDI stored searches and saved searches should be reviewed. Searchers should review these searches for the impact of any changed and new 1993 MeSH headings. Please refer to the Year-End Processing Schedule on pages 11-12 of this issue.

SDILINE Automatic SDI Searches - MEDLINE Database

SDILINE Automatic SDI stored searches requiring revision due to 1993 MeSH vocabulary changes must be deleted and restored by Thursday, December 3, 1992, in order to receive correct retrieval against the January SDILINE (9301 (EM)) database. Automatic SDIs for the 9301 (EM) SDILINE will be processed beginning on or about Saturday, December 5, 1992. Searchers should

execute their STORESEARCHes online between November 23, 1992 and December 11, 1992, to examine retrieval. During this time, the December 1992 SDILINE file will contain 1993 MeSH terms, so that searchers can run their STORESEARCHes against this revised SDILINE to check correct operation of stored strategies against the new vocabulary. Only SDILINE will have 1993 vocabulary terms on citations during this time period; MEDLINE and other databases will not.

In order to check correct operation of stored searches during this designated period, searchers should:

1. First, record the number of citations retrieved for each stored search as processed by NLM in the Automatic SDI Program for the December 1992 SDILINE (9212 (EM)) with the 1992 vocabulary. (The number of citations retrieved is listed on the front of each SDI printout received. The name of the stored search is the title of the printout.)
2. Beginning November 23, searchers should go online and run each SDILINE stored search against the December SDILINE, which will contain the same citations but will reflect 1993 MeSH vocabulary. (Stored searches may be executed by typing the stored search name online qualified by (SN). Be sure you are connected to SDILINE.)
3. Compare the postings retrieved with the records found earlier. If the number of citations (i.e., postings) retrieved is not equal to the number received in the 9212 (EM) SDILINE printouts with 1992 vocabulary, searchers may assume the stored search has been affected by a 1993 vocabulary change.
4. Searchers should also display the strategy. Use the command DISPLAY with the stored search name. Do not use the (SN) qualifier. For example:

DISPLAY S601 HEART DISEASE
5. Check the terms in your strategy against the various lists of new and replaced MeSH headings which are contained in the introductory section of the Medical Subject Headings - Annotated

Alphabetic List, 1993. Three of the four lists of new headings ("New Medical Subject Headings with Scope Notes", "New Medical Subject Headings by Subcategory", and "New Medical Subject Headings with Previous Indexing") contain only those headings that were not in the 1992 MeSH. They do not include new forms of existing headings; these appear in the list titled, "Replaced Medical Subject Headings with Replaced-By Headings".

On the list titled "Replaced Medical Subject Headings with Replaced-By Headings - 1993", terms designated as P (Print Entry Term) or N (Non-Print Entry Term) may still be used as search terms and remain in any stored/saved search. Terms designated as C (Supplementary Chemical Term) may remain but must be qualified with (NM). Those terms with no status indicator may not be used as search terms and must be deleted from all stored and/or saved searches.

Tree numbers should be checked in the Medical Subject Headings - Tree Structures, 1993. CAS Registry Numbers and Names of Substances (NM) should be checked in the online NEW MESH database (type FILE NEW MESH) which contains the 1993 MeSH vocabulary. If the strategies are not too long, searchers may want to type them in line-by-line and evaluate any No Postings messages to isolate the problem area.

6. Purge searches requiring changes (PURGESEARCH searchname). For example:

PURGESEARCH S601 HEART DISEASE

Then store the revised strategy (STORESEARCH searchname). For example:

STORESEARCH S601 HEART DISEASE

Note: If you purge and store on the same day, be sure to make the name of the new stored search

different. It is sufficient to vary the name of the search by **one character (letter or number)** to make the new name unique.

7. All revised SDILINE search strategies for Automatic SDILINE processing should be stored by December 3, 1992, to ensure correct processing of 9301 (EM) SDILINE Automatic SDIs.

Other Databases with SDI Service

Other files which have Automatic SDI service are HEALTH, CANCERLIT, CATLINE, AVLINE, AIDSLINE, POPLINE, and TOXLINE. These do not have an equivalent of SDILINE; therefore, it is not possible to follow the procedures described above for the SDILINE database. You should carefully review any strategies you may have stored for execution by NLM against these databases for possible vocabulary revisions and restore by the dates listed below.

HEALTH and CANCERLIT SDIs

The HEALTH and CANCERLIT databases are also expected to be updated with 1993 MeSH vocabulary on December 14, 1992. Review and restore any affected searches by December 10. The HEALTH update expected on December 14 is 9301 (EM); the CANCERLIT update expected on December 14 is 9212 (EM). NLM plans to run these Automatic SDIs during the week of December 14.

AIDSLINE SDIs

AIDSLINE is expected to be updated with 1993 vocabulary sometime after January 2, 1993. Changes to Automatic SDI stored searches run against the AIDSLINE 9301 (EM) should be made no later than December 31, 1992.

CATLINE and AVLINE Automatic SDIs

The CATLINE and AVLINE databases are also expected to be updated with 1993 vocabulary on December 14, 1992. Automatic SDIs for these databases (with December 1992 dates of entry) are scheduled to be processed on or about January 4, 1993. Changes to Automatic SDI stored searches run against these databases should be made no later than December 31, 1992.

POPLINE SDIs

POPLINE SDI stored searches should not be changed yet. Please see future issues of the *Technical Bulletin* and the online NEWS for announcements about the introduction of the 1993 vocabulary.

TOXLINE SDIs

TOXLINE contains MeSH vocabulary on the TOXBIB and BIOSIS subfiles. Stored search strategies for TOXLINE that contain MeSH headings should be reviewed for 1993 MeSH vocabulary changes. Any changes to these strategies should be reviewed and restored by December 8, 1992. NLM plans to run TOXLINE/TOXLIT Automatic SDIs against 9212 (EM) data on December 10, 1992.

Beginning with the 9212 (EM) TOXLINE update in December, records added to both the TOXBIB and the BIOSIS subfiles will contain 1993 MeSH. 1992 MeSH terms will remain on TOXBIB and BIOSIS records from earlier entry months until the entire TOXLINE file is regenerated sometime in February or March 1993. Watch the online ELHILL news and the *Technical Bulletin* for the date of the regeneration.

Year-End Processing Schedule: File Updates and Automatic SDIs

- October 24, 1992:** December 1992 MEDLINE/SDILINE 9212 (EM) with 1992 MeSH vocabulary available online.
- November 21-22, 1992:** SDILINE unavailable in order to implement this database with 1993 vocabulary.
- November 23 - December 11, 1992:** December 1992 SDILINE, available containing 9212 (EM) data, with 1993 MeSH. STORESEARCHes should be executed online.
- December 3, 1992:** Last day to revise and restore strategies in time for 9301 (EM) SDILINE automatics. (December 1992 SDILINE available through December 11, 1992).
- December 5, 1992:** SDILINE Automatic SDIs will be processed against 9301 (EM) data beginning on or about this date.
- December 10, 1992:** HEALTH and CANCERLIT Automatic SDIs with any identified changes should be corrected and restored by this date.
- December 8, 1992:** TOXLINE Automatic SDIs with any identified changes should be corrected and restored by this date. The 9212 (EM) TOXLINE/TOXLIT Automatic SDIs are expected to be processed on December 10, 1992.
- December 12-13, 1992:** The NLM computer will be unavailable for searching over this weekend so that the 1993 MEDLINE, SDILINE, HEALTH, CANCERLIT, BIOSEEK, CATLINE, and AVLINE databases and MEDLINE Backfiles may be installed. PDQ and DOCLINE will also be down. The TOXNET computer is unaffected.
- Note: If the installation of the 1993 databases proceeds smoothly, it is possible that the computer will be brought back online early, that is, on either December 12 or 13, with the 1993 databases ready for searching. These dates are provided as guidelines so searching schedules may be planned.
- December 14, 1992:** Class-maintained MEDLINE and HEALTH databases available online with 9301 (EM) update data. 9301 (EM) SDILINE available online. The CANCERLIT database class-maintained and updated through 9212 (EM) should also be available online on this date. These databases, the MEDLINE Backfiles, BIOSEEK, CATLINE and AVLINE should be searched using 1993 MeSH vocabulary.
- December 14, 1992:** HEALTH Automatic SDIs will be processed against 9301 (EM) data beginning on this date, followed by CANCERLIT Automatic SDI processing against 9212 (EM) data.

- December 26, 1992:** The SDILINE 9302 (EM) Automatic SDIs will be processed during this week.
- December 31, 1992:** AIDSLINE Automatic SDI stored searches requiring changes should be corrected and restored by this date. AIDSLINE Automatic SDIs will be processed on or after January 2, 1993.
- December 31, 1992:** CATLINE and AVLINE Automatic SDIs with any identified changes should be corrected and restored by this date. CATLINE and AVLINE Automatic SDIs will be processed on or after January 4, 1993.

Coming Attractions - ELHILL (effective December 14, 1992)

Revised STOPWORD List

Sixty-three (63) terms will be removed from the ELHILL stopword list for the 1993 system. Many of the terms being removed have meanings relevant to medical knowledge, e.g., WILL, as in "living will" or WHO as in "World Health Organization." Other terms are useful in comparative searches, e.g., POORLY, LARGELY, LIKE, MORE, POSSIBLE, POTENTIALLY, SIMILAR. Providing Text Word (TW) access to these 63 terms is expected to help improve TW searching. See List A: 1993 ELHILL STOPWORDS; and List B: ELHILL STOPWORDS REMOVED FOR 1993 in Figures 1 and 2.

Expanded ID Field (ID)

For MEDLINE citations published in 1990 forward, the ID field will be expanded to include a second subelement, containing the 2-letter grant acronym, and a third subelement, containing the Institute acronym. All subelements will be directly searchable using the (ID) qualifier, e.g.,

(ID) EY07361/EY/NEI

can be searched using the full grant no.:

EY07361 (ID)

the grant acronym:

EY (ID)

or the Institute acronym:

NEI (ID)

Figure 3 contains a list of the two-letter grant acronym values that may be found in the second subelement and the possible institute acronyms.

PAGELENGTH Change

The PROFILE MODIFY command is used to set a PAGELENGTH value of between 10 to 100 lines. The PAGELENGTH setting determines how many lines of print are sent before the CONT PRINT? prompt is sent. Within the next several months, NLM plans to increase the maximum number of lines which can be set for PAGELENGTH from 100 to 500. This change will be made gradually in several phases. Watch the online NEWS for details.

"0" (ZERO) Registry Numbers (RN)

Approximately 1400 MeSH terms in Category D which lack RN values have had the RN value of 0 added. Citations indexed with these terms have been maintained to include this new RN value with the appropriate name of substance (NM) values. This undertaking began last year and continues to simplify chemical name searching. See pages 46-48 of the May-June 1991 *Technical Bulletin* for a search hint on this subject.

MeSH Geographical Subject Headings and Tree Numbers

As all good ELHILL searchers know, MeSH descriptors for geographic names are assigned tree numbers within the Z1 Tree. The Z1 number may be searched in two ways:

- (1) to retrieve citations about a country (country as subject),
qualify the Z1 number by (MN), or
- (2) to retrieve citations published in a country (country as place of publication),
qualify the Z1 number by (ZN).

When searching by ZN, you must end the number with a "."; e.g., Z1.107.757. (ZN).

A significant number of geographic name and tree number changes were made to 1993 MeSH, in order to reflect the dramatic changes in world politics. Normally, year-end processing would include maintenance to ALL data in ELHILL citations to reflect 1993 MeSH changes. The changes for 1993 MeSH ARE reflected in ELHILL citations for the geographic names as subject (MH) or (MN). For searching geographic names (MH) or their corresponding MeSH Numbers (MN) as subjects, searchers should use the 1993 MeSH.

However, NLM was unable to process, in the short time allowed, the unprecedented volume of maintenance required by (ZN) changes. Citations in MEDLINE and other NLM indexed files will NOT be maintained with the 1993 Z numbers for (ZN) data, and NLM will continue to index citations during 1993 using the 1992 (ZN) values.

Searchers must continue to use 1992 Z1 numbers when searching by (ZN) for country of publication.

Searchers should keep their Medical Subject Headings—Tree Structures, 1992 (or pages 786-796 which contain the Z1 Tree). Searchers who require assistance with searches involving ZNs are encouraged to contact the MEDLARS Service Desk.

For new records added to CATLINE and AVLINE for 1993, these records will reflect 1993 geographic names in the Country (CY) and will not have any ZN values present. Existing records in both files will reflect 1992 ZN values and will not be maintained.

[Editor's Note: See related article under "Geography" on page 19 of this issue.]

Looking Forward to 1994

All geographic data in MEDLINE will be corrected for the 1994 system. NLM is considering the deletion of the ZN from ELHILL citations, and replacing it with the more meaningful and maintainable value of Country of Publication (CY).

LIST A: 1993 ELHILL STOPWORDS

A	EVERY	NOR	STRONGLY
ABOUT	FOR	NORMALLY	SUBSTANTIALLY
ABS	FOUND	NOS	SUCH
ACCORDINGLY	FROM	NOT	SUFFICIENTLY
AGAIN	FURTHER	NOTED	THAN
AGAINST	GAVE	NOW	THAT
ALL	GONE	OBTAINED	THE
ALMOST	GOT	OF	THEIR
ALREADY	HAD	OFTEN	THEIRS
ALSO	HAS	ON	THEM
ALTHOUGH	HAVE	OR	THEN
ALWAYS	HAVING	OUGHT	THERE
AMONG	HERE	OUR	THEREFORE
AN	HOW	OVERALL	THESE
AND	HOWEVER	OWING	THEY
ANOTHER	IF	PARTICULARLY	THIS
ANY	IMMEDIATELY	PERHAPS	THOSE
ARE	IMPORTANCE	PREDOMINANTLY	THOUGH
ARISE	IMPORTANT	PRESENT	THROUGH
AS	IN	PRIMARILY	THROUGHOUT
AT	INTO	PROMPTLY	TO
BE	IS	QUICKLY	TOO
BECAME	IT	QUITE	TOWARD
BECAUSE	ITS	RATHER	UNTIL
BECOME	ITSELF	READILY	UPON
BECOMES	JUST	REALLY	USE
BEEN	KEEP	RECENTLY	USED
BEFORE	KEPT	REFS	USEFULLY
BEING	KG	REGARDING	USEFULNESS
BETWEEN	KM	SAID	USING
BIOL	MADE	SAME	USUALLY
BOTH	MAINLY	SEEM	VARIOUS
BUT	MAKE	SEEN	VERY
BY	MANY	SEVERAL	WAS
CAN	MAY	SHALL	WERE
CHEM	MG	SHOULD	WHAT
COULD	MIGHT	SHOWED	WHEN
DID	ML	SHOWN	WHERE
DO	MOST	SHOWS	WHETHER
DOES	MOSTLY	SIGNIFICANTLY	WHICH
DONE	MUCH	SINCE	WHILE
DUE	MUG	SLIGHTLY	WHOSE
DURING	MUST	SO	WITH
EACH	NEARLY	SOME	WITHIN
EITHER	NECESSARILY	SOMETIME	WITHOUT
ENOUGH	NEITHER	SOMEWHAT	WOULD
ESPECIALLY	NEXT	SOON	YET
ETC	NO	SPECIFICALLY	

Figure 1 - 1993 ELHILL STOPWORDS

LIST B: ELHILL STOPWORDS REMOVED FOR 1993

AFFECT	ONLY
AFFECTED	OTHER
AFFECTING	OUT
AFFECTS	PAST
AFTER	PLEASE
ANYONE	POORLY
APPARENTLY	POSSIBLE
ASIDE	POSSIBLY
AWAY	POTENTIALLY
BRIEFLY	PREVIOUSLY
CAME	PROBABLY
CANNOT	PROMPT
CERTAIN	REGARDLESS
CERTAINLY	RELATIVELY
COPYRIGHT	RESPECTIVELY
DIFFERENT	RESULTED
EFFECT	RESULTING
EFFECTS	RESULTS
ELSE	SHOW
EVER	SIMILAR
FOLLOWING	SIMILARLY
GETS	STATE
GIVE	STATES
GIVEN	SUCCESSFULLY
GIVING	UNDER
HARDLY	UNLESS
KNOWLEDGE	UP
LARGELY	WHO
LIKE	WHY
MORE	WIDELY
NONE	WILL
OBTAIN	

Figure 2 - Removed ELHILL Stopwords

**POSSIBLE VALUES FOR THE GRANT ACRONYM SUBELEMENT & INSTITUTE
ACRONYM FOR THE ID FIELD IN MEDLINE (1990 FORWARD)**

**Two-Character
Grant Acronym**

Institute Acronym

Full Institute Name

NATIONAL INSTITUTES OF HEALTH (NIH)

AG	NIA	National Institute on Aging
AI	NIAID	National Institute on Allergy and Infectious Diseases
AM ¹	NIADDK	National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases
AR	NIAMS	National Institute of Arthritis and Musculoskeletal and Skin Diseases
CA	NCI	National Cancer Institute
CO	NCI	Office of the Director
CN	NCI	Division of Cancer Prevention and Control
CB	NCI	Division of Cancer Biology and Diagnosis
CP	NCI	Division of Cancer Etiology
CM	NCI	Division of Cancer Treatment
CL	CLC	Clinical Center
CT	DCRT	Division of Computer Research and Technology
DC	NIDCD	National Institute on Deafness and other Communication Disorders
DE	NIDR	National Institute of Dental Research
DK	NIDDK	National Institute of Diabetes and Digestive and Kidney Diseases
DS	DS-ORS-OD	Division of Safety
ES	NIEHS	National Institute of Environmental Health Sciences
EY	NEI	National Eye Institute
GM	NIGMS	National Institute of General Medical Sciences
HD	NICHD	National Institute of Child Health and Human Development
HG	NCHGR	National Center for Human Genome Research
HL	NHLBI	National Heart, Lung, and Blood Institute
HV	NHLBI	Division of Heart and Vascular Diseases
HB	NHLBI	Division of Blood Diseases and Resources
HR	NHLBI	Division of Lung Diseases
HI	NHLBI	Division of Intramural Research
HO	NHLBI	Office of the Director
HC	NHLBI	Division of Epidemiology and Clinical Applications
LM	NLM	National Library of Medicine
NR	NCNR	National Center for Nursing Research
NS	NINDS	National Institute of Neurological Disorders and Stroke
OD	NIH	Office of the Director
OR	ORS	Office of Research Services
RG	DRG	Division of Research Grants
RR	NCRR	National Center for Research Resources
RS ²	DRS	Division of Research Services
TW	FIC	Fogarty International Center

¹ No longer being assigned. New institutes are AR (NIAMS) and DK (NIDDK).

² No longer being assigned. Now part of RR (NCRR).

Figure 3 - Grant and Institute Acronyms for ID field

Two-Character

Grant Acronym

Institute Acronym

Full Institute Name

HEALTH RESOURCES AND SERVICES ADMINISTRATION

MB	BHP	Office of the Director, Bureau of Health Professions
AH	DAHP-BHP	formerly Division of Associated Health Professions
DH	DD-BHP	formerly Division of Dentistry
NU	DN-BHP	Division of Nursing
PE	DM-BHP	Division of Medicine

FOOD AND DRUG ADMINISTRATION (FDA)

FD	FDA	Food and Drug Administration
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CENTERS FOR DISEASE CONTROL

OH	NIOSH	National Institute for Occupational Safety and Health
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ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION (ADAMHA)

AA	NIAAA	National Institute on Alcohol Abuse and Alcoholism
AD	ADAMHA	Office of the Administrator
DA	NIDA	National Institute on Drug Abuse
MH	NIMH	National Institute of Mental Health
SP	OSAP	Office of Substance Abuse Prevention
TI	OTI	Office for Treatment Improvement

OFFICE OF POPULATION AFFAIRS, OASH

FP		Office of Family Planning
PG		Office of Adolescent Pregnancy Programs

OFFICE OF MINORITY HEALTH, OASH

MP	OMH	Office of Minority Health
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AGENCY FOR HEALTH CARE POLICY AND RESEARCH (AHCPR)

HS	AHCPR	Agency for Health Care Policy and Research
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Source: Information Systems Branch, Division of Research Grants, National Institutes of Health: February 1991

Figure 3 - Grant and Institute Acronyms for ID Field cont.

Coming Attractions - MeSH

Major TREE Changes for 1993

Health Services Research

As part of our continuing support for health services research, a new tree in Category N has been created for 1993. This tree, **Health Care - Quality, Access, Evaluation (N5)**, brings together terms that heretofore have been scattered throughout the various N category trees. Its purpose is to provide a single location for terms useful in locating material relevant to the primary aims of health services research - studying the relationships between the needs, demands, access, and supply of health care and assessing and evaluating the outcome and effectiveness of treatments and services provided.

Dermatology

Category C17, skin diseases, was greatly expanded and re-organized for 1993. The most significant change was the importation of the Connective Tissue Diseases from C23 and the renaming of the tree, now known as **C17 - Skin and Connective Tissue Diseases**. Several new subdivisions were also created to group various conditions according to their appearance (e.g., Necrobiotic Disorders; Skin Diseases, Papulosquamous; Lichenoid Eruptions) or etiology (e.g., Skin Diseases, Bacterial; Skin Diseases, Viral). Finally, in addition to the creation of about 30 new headings (e.g., Ichthyosis, Lamellar; Dermatitis, Photoallergic), terminology was updated for several diseases to bring them into line with current preferred nomenclature (e.g., Poison Ivy Dermatitis became Dermatitis, Toxicodendron, Pompholyx became Eczema, Dyshidrotic).

Geography

Special focus has been given for the upcoming year to geographical headings in light of the overwhelming changes in the geopolitical situation in Eastern Europe. As countries became

independent, names and political associations changed as well. With the dissolution of the Soviet Union, all former republics have been retreed and many have been renamed. A new entity, **HISTORICAL GEOGRAPHICALS (NON MESH)**, has been created in order to group those terms whose significance extends beyond geographical boundaries and that encompass, historical, political, social, or economic concepts as well. Included here are terms that antedate modern history (e.g., ARABIA), those from the very recent past (e.g., USSR), and those newly created as a result of recent current events (e.g., **COMMONWEALTH OF INDEPENDENT STATES**). [Editor's Note: See related article under "MeSH Geographical Subject Headings and Tree Numbers" on pages 13-14.]

Neoplasms

The treeing of neoplasms was examined in great detail and extensive retreeing was done in order to make consistent the hierarchies in both C4 - Neoplasms and in the corresponding organ system disease tree, e.g., the arrays for Gastrointestinal Neoplasms were made identical in both the neoplasms tree and in the gastrointestinal diseases tree.

Targeted Subject Areas for Expanded and Updated Coverage

Completing the work begun last year with the bacteria and protozoa in Category B, a similar project for the nematoda and their diseases added over 40 new headings in this area. Changes were made in order to conform to the latest terminology, to add headings to fill in gaps in the hierarchy, or to reflect expanded coverage in the biomedical literature.

A significant review and enhancement of the terminology related to drug receptors was initiated resulting in the addition of over 30 new headings and modification and reorganization of numerous others. Because of the tremendous growth in the

knowledge and understanding of the role that receptors play in various physiological processes, there have been extensive changes and rapid proliferation of new receptor names. It is expected that more work in this area will be carried out during the forthcoming year. Other additions in the molecular biology area include terms for members of the annexin, adenovirus early protein, and small nuclear ribonucleoprotein families, as well as a number of headings associated with sequence analysis and protein structure.

The terminology of clinical research has also been expanded to include headings for specific clinical trial phases, namely, CLINICAL TRIALS, PHASE I; CLINICAL TRIALS, PHASE II; CLINICAL TRIALS, PHASE III; and CLINICAL TRIALS, PHASE IV. These will be used to identify articles discussing the subject of clinical trial phases while the corresponding Publication Types, also created for 1993, will be used to identify articles that are specific reports of phase I trials, etc.

Much effort was expended in Category D to review and upgrade drug and enzyme terminology. This resulted in changing over 30 headings to conform to either USAN (United States Adopted Names) or Enzyme Commission (EC) preferred nomenclature. While well over 100 new drugs and chemicals were added for 1993, 40 outdated terms having virtually no MEDLINE postings for the past 10 years were deleted.

Publication Types

For 1993, six new Publication Types have been added to characterize the nature of information reported in biomedical literature. They are:

CLINICAL TRIAL, PHASE I
 CLINICAL TRIAL, PHASE II
 CLINICAL TRIAL, PHASE III
 CLINICAL TRIAL, PHASE IV
 INTERVIEW
 META-ANALYSIS

INTERVIEW (PT) has been added retrospectively to existing citations in MEDLINE, its Backfiles, HEALTH, AIDSLINE, CANCERLIT and BIOSEEK which have the corresponding rubric [INTERVIEW]. Rubrics are descriptive words enclosed in brackets or parentheses added to the titles of indexed articles to identify the format of the material, e.g., [INTERVIEW].

The Publication Type (PT) INTERVIEW has been added as far back as the use of the rubric allowed. Although the rubric INTERVIEW has been used since 1979, its format has not been consistent, making it difficult to precisely identify (by computer program) each citation in each file to which the INTERVIEW (PT) should be added. Searchers should use caution when searching for INTERVIEW (PT) in the early backfiles. Searching only for INTERVIEW (PT) will be precise back through BACK80. For searching earlier files, searchers may include the corresponding Title Field Text Word (TF), e.g.:

SS 1: Your Search Strategy
 SS 2: (PT) INTERVIEW OR INTERVIEW (TF)
 SS 3: 1 AND 2

Some false drops may result from using the TF; for example, an article with the title "Part of patient care planning—the initial interview. 1." would be retrieved using the above strategy, even though it is not an INTERVIEW.

META-ANALYSIS exists also as a MeSH heading. META-ANALYSIS (PT) has been added to existing citations in MEDLINE having META-ANALYSIS (MH). This means that the citations have the value META-ANALYSIS in both the MH and PT fields. For example, an article indexed with META-ANALYSIS (MH) in the past could have been about how to conduct a meta-analysis study or it could have been a report of an actual meta-analysis. Because the two possibilities could not be easily ascertained without going back to the original articles, the MH value is being retained in the citations while the corresponding PT value is being

added. This may result in some improper tagging with the PT value, but the potential overall benefit of retrospective conversion was preferred.

For citations added from 1993 forward, the MeSH heading will only be used for articles on meta-analysis as type of study design. For those citations that are actually reports of meta-analysis studies, only the PT value will be added.

PRE-EXPLOSIONS

Nine new pre-explosions have been added this year to make more efficient the retrieval of citations in very highly posted subject areas. The new ones are identified below and the complete list of the 75 pre-explosions available for 1993 is provided in Appendix D. (Please note that this list supersedes the list printed on pages I-111 and I-112 of the 1993 Annotated MeSH. Two last minute additions to the pre-explode list, AGED and INFANT were requested after MeSH had gone to press.

AGED
ANESTHESIA
ANTI-INFECTIVE AGENTS
ANTINEOPLASTIC AGENTS
EPIDEMIOLOGIC METHODS
INFANT
INVERTEBRATES
MUSCULOSKELETAL SYSTEM
PUBLIC HEALTH

Annotation Review

Over 15,000 annotations were reviewed during the year. This study was undertaken in order to: 1) streamline subheading information and remove outdated or unnecessary lists of subheading restrictions; 2) look for useful information that could be elevated to new headings, *see related* references, or entry terms; and 3) provide short statements describing the general domain or context of headings so that users can get at a glance a general idea about the heading.

TOXNET - Recent Developments

Over the summer, TOXNET completed the conversion of its networked microprocessor configuration from 386 to 486 machines. TOXNET now contains over 23 gigabytes of online disk storage and 224 available user ports on four terminal servers. This represents a substantial increase in the capacity and speed of the system. One of the terminal servers will be handling TCP/IP protocol in preparation for TOXNET's accessibility on INTERNET in the near future.

Concept menus have proved quite popular and useful for searching HSDB. Novice users are able to search effectively for toxicological information without learning TOXNET's command language. Seasoned searchers also find the menus useful, since a concept search is actually carried out by a hedge, or cluster of terms used to define the concept. This saves the searcher from having to identify synonymous terms for a concept such as carcinogenicity. Plans are underway to expand concept menus to the other RN—linked files: IRIS, RTECS, CCRIS, GENETOX, TRIFACTS.

TOXNET is exploring ways to allow searching and printing between the RN-linked files and the TRI

series of files. The first such effort will result in the ability of TRI menu users to display TRIFACTS data for chemicals in their search retrieval set.

Two error-correcting file transfer protocols, KERMIT and XMODEM, are now available for downloading TRI data with eight specially defined TRI reports. These reports are in a fixed field format that allows for their subsequent application in spread sheets, statistical packages, or other software. If you are not already familiar with file transfer protocols, further information can be found in the manual of your telecommunications software package (e.g., Smartcomm, Procomm, etc.). These error-correcting protocols are currently available only for TRI users in direct command mode but will be released for TRI menu searching in the future.

Work is underway to modify the TRI unit record in preparation for TRI91. The 1991 TRI submissions will reflect increased reporting requirements due to the recent Pollution Prevention Act. Along with chemical release and transfer data, TRI91 will be the first of the series to contain detailed information on energy recovery, recycling, and source reduction. A separate data element will also provide the quantity of chemicals involved in accidental spills or releases. TRI91 will be available in mid-1993.

SERIALS UPDATE

INDEXED TITLES UPDATED, JULY-AUGUST 1992

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

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

TITLES SELECTED FOR INDEXING, JULY-AUGUST 1992

- IM ANTISENSE RESEARCH AND DEVELOPMENT
ANTISENSE RES DEV
1,1991—
MARY ANN LIEBERT
NEW YORK NY UNITED STATES
INDEXING BEGAN WITH V1N1, SPRING 1991.
W1 AN887 1050-5261
SR0068850 JC: B17
MARY AND LIEBERT, 16511 THIRD AVENUE
NEW YORK 10128
- IM CLINICAL PRACTICE GUIDELINE
CLIN PRACT GUIDEL
N1, FEB 1992—
AGENCY FOR HEALTH CARE POLICY AND RESEARCH
ROCKVILLE MD UNITED STATES
ISSUES FOR FEB. 1992 AND MAR. 1992 ARE
UNNUMBERED, BUT CONSTITUTE NOS. 1 AND 2.
INDEXING BEGAN WITH N1, 1992.
W1 CL767JE
SR0074551 JC: BJ5
DEPARTMENT OF HEALTH AND HUMAN SERVICES,
AGENCY FOR HEALTH CARE POLICY
AND RESEARCH,
EXECUTIVE OFFICE CENTER, 2101 EAST
JEFFERSON STREET, SUITE 501,
ROCKVILLE MD 20852
- IDL BRAZILIAN DENTAL JOURNAL
BRAZ DENT J
1,1990—
DENTAL FOUNDATION OF RIBEIRAO PRETO
RIBEIRAO PRETO BRAZIL
INDEXING BEGAN WITH V1N1, 1990.
ON ORDER 0103-6440
SR0074563 JC: B15
- INI CONCERN
CONCERN
16N3, JUN 1987?—
SASKATCHEWAN REGISTERED NURSES ASSOCIATION
REGINA CANADA
CONTINUES: NEWS BULLETIN - SASKATCHEWAN
REGISTERED NURSES ASSOCIATION, WHICH IS
NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V21N1, 1992.
ON ORDER 0836-7310
SR0074594 JC: BJ4
SASKATCHEWAN REGISTERED NURSES
ASSOCIATION, 2066 RETALLACK ST., REGINA
(SASK.) S4T 2K2, CANADA
- IM CEREBRAL CORTEX
CEREB CORTEX
1,1991—
OXFORD UNIVERSITY PRESS
NEW YORK NY UNITED STATES
INDEXING BEGAN WITH V1N1, 1991.
W1 CE569V 1047-3211
SR0068921 JC: B19
- IM CLINICAL AUTONOMIC RESEARCH
CLIN AUTON RES
1,1991—
RAPID COMMUNICATIONS OF OXFORD
OXFORD ENGLAND
FREQUENCY VARIES: QUARTERLY, VOL. 1
(1991); BIMONTHLY, VOL. 2 (1992)-
INDEXING BEGAN WITH V1N1, MAR 1991.
W1 CL668KH 0959-9851
SR0069760 JC: BJB
RAPID COMMUNICATIONS OF OXFORD LTD.,
THE OLD MALHOUSE
PARADISE STREET, OXFORD OX1 1LD, UK
- IM CURRENT OPINION IN GENETICS AND DEVELOPMENT
CURR OPIN GENET DEV
1N1, JUN 1991—
CURRENT BIOLOGY
LONDON ENGLAND
INCLUDES A SECTION WITH TITLE: BIBLIOGRAPHY
OF THE CURRENT WORLD LITERATURE. VOLUME
1 CONSISTS OF FOUR ISSUES.
INDEXING BEGAN WITH V1N1, JUN 1991.
W1 CU799GCR 0959-437X
SR0068027 JC: BJC

TITLES SELECTED FOR INDEXING, JULY-AUGUST 1992

- IM CURRENT OPINION IN NEUROBIOLOGY
 CURR OPIN NEUROBIOL
 1N1,JUN 1991—
 CURRENT BIOLOGY
 LONDON ENGLAND
 INCLUDES A SECTION WITH TITLE: BIBLIOGRAPHY
 OF THE CURRENT WORLD LITERATURE.
 VOLUME 1 CONSISTS OF FOUR ISSUES.
 INDEXING BEGAN WITH V1N1,JUN 1991.
 W1 CU799GFQ 0959-4388
 SR0068026 JC: BJE
- IM EUROPEAN NEUROPSYCHOPHARMACOLOGY
 EUR NEUROPSYCHOPHARMACOL
 1N1,NOV 1990—
 ELSEVIER
 AMSTERDAM NETHERLANDS
 JOURNAL OF THE EUROPEAN COLLEGE OF
 NEUROPSYCHOPHARMACOLOGY.
 INDEXING BEGAN WITH V1N1,NOV 1990.
 W1 EU721Q 0924-977X
 SR0070542 JC: BJH
- IM CURRENT OPINION IN NEUROLOGY AND
 NEUROSURGERY
 CURR OPIN NEUROL NEUROSURG
 1N1,JAN/FEB 1988—
 CURRENT SCIENCE
 PHILADELPHIA PA UNITED STATES
 PUBLISHED BY GOWER ACADEMIC JOURNALS,
 VOL. 1, 1988; AND BY CURRENT SCIENCE, VOL. 2,
 1989—
 1990 AND 1991 ISSUES SELECTIVELY INDEXED
 FOR HSTAR. INDEXING FOR IM BEGAN WITH
 V5N1,FEB 1992.
 W1 CU799GG 0951-7383
 SR0062586 JC: BDI
- IM GENE EXPRESSION
 GENE EXPR
 1N1,APR 1991—
 CHICAGO MEDICAL SCHOOL PRESS
 NORTH CHICAGO IL UNITED STATES
 INDEXING BEGAN WITH V1N1,APR 1991.
 W1 GE184PE 1052-2166
 SR0068899 JC: BJJ
- IM DEVELOPMENTAL IMMUNOLOGY
 DEV IMMUNOL
 1,1990-1991—
 HARWOOD ACADEMIC
 BERKS ENGLAND
 INDEXING BEGAN WITH V1N1,1990.
 W1 DE997O 1044-6672
 SR0067526 JC: BJF
 HARWOOD ACADEMIC PUBLISHERS, P.O. BOX
 90,READING,BERKS UK RG1 8JL
- IM GLYCOCONJUGATE JOURNAL
 GLYCOCONJ J
 1,1984—
 CHAPMAN AND HALL
 LONDON ENGLAND
 FREQUENCY VARIES: BIMONTHLY, VOLS. 1-2
 (1984-1985); QUARTERLY, VOLS. 3-6
 (1986-1989); BIMONTHLY, VOL. 7 (1990)-
 PUBLISHED: LUND: GLYCOCONJUGATE
 JOURNAL, VOLS. 1-7 (1984-1990); LONDON:
 CHAPMAN AND HALL, VOL. 8 (1991)- . OFFICIAL
 JOURNAL
 OF THE INTERNATIONAL GLYCOCONJUGATE
 ORGANIZATION. VOL. 1 COMPLETE IN TWO
 ISSUES. SOME COMBINED ISSUES PUBLISHED.
 INDEXING BEGAN WITH V6N1,1989.
 W1 GL365 0282-0080
 SR0055276 JC: BJJ
 GLYCOCONJUGATE JOURNAL,
 BOX 5127,S-220 05
 LUND,SWEDEN
- IM EUROPEAN JOURNAL OF OPHTHALMOLOGY
 EUR J OPHTHALMOL
 1,1991—
 WICHTIG EDITORE
 MILANO ITALY
 INDEXING BEGAN WITH V1N1,JAN-MAR 1991.
 W1 EU72DM 1120-6721
 SR0070086 JC: BJG
- IM JOURNAL OF THE ASSOCIATION OF NURSES IN
 INI AIDS CARE
 J ASSOC NURSES AIDS CARE
 1,1989—
 NURSECOM INC.
 PHILADELPHIA PA UNITED STATES
 INDEXING FOR INI BEGAN WITH V1N1,1990.
 INDEXING FOR IM BEGAN WITH V3N3,JUL-AUG
 1992.
 W1 JO12KK 1055-3290
 SR0070757 JC: A7P

TITLES SELECTED FOR INDEXING, JULY-AUGUST 1992

- IM JOURNAL OF BIOMOLECULAR NMR
 J BIOMOL NMR
 1N1,MAY 1991—
 ESCOM SCIENCE PUBLISHERS B.V.
 LEIDEN NETHERLANDS
 INDEXING BEGAN WITH V1N1,MAY 1991.
 W1 JO564UL 0925-2738
 SR0069855 JC: BJM
 ESCOM SCIENCE PUBLISHERS B.V.,P.O. BOX
 214 2300 AE LEIDEN,THE NETHERLANDS
- IM JOURNAL OF TRACE ELEMENTS AND
 ELECTROLYTES IN HEALTH AND DISEASE
 J TRACE ELEM ELECTROLYTES HEALTH DIS
 1N1,SEP 1987—
 WALTER DE GRUYTER
 BERLIN GERMANY
 VOL. 1 CONSISTS OF 2 ISSUES ONLY.
 INDEXING BEGAN WITH V1N1,SEP 1987.
 W1 JO966KDR 0931-2838
 SR0060832 JC: BJQ
 WALTER DE GRUYTER INC.,200 SAW MILL
 RIVER ROAD,HAWTHORNE NY 10532
- IM JOURNAL OF EXPOSURE ANALYSIS AND
 ENVIRONMENTAL EPIDEMIOLOGY
 J EXPO ANAL CARE ENVIRON EPIDEMIOL
 1,1991—
 PRINCETON SCIENTIFIC PUBLISHING
 PRINCETON NJ UNITED STATES
 OFFICIAL ORGAN OF THE INTERNATIONAL SOCIETY
 OF EXPOSURE ANALYSIS. VOL. 2, NO. 1 HAS
 DATE MISPRINTED ON SPINE AS 1991.
 INDEXING BEGAN WITH V1N1,1991.
 W1 JO644YK 1053-4245
 SR0071115 JC: BJN
- IM MELANOMA RESEARCH
 MELANOMA RES
 1N1,APR/MAY 1991—
 RAPID COMMUNICATIONS OF OXFORD
 OXFORD ENGLAND
 VOL. 1, NOS. 5-6 PUBLISHED IN COMBINED
 ISSUE (JAN-FEB 1992).
 INDEXING BEGAN WITH V1N1,APR-MAY 1991.
 W1 ME8879TG 0960-8931
 SR0069766 JC: BJR
 RAPID COMMUNICATIONS OF OXFORD LTD.,THE
 OLD MALHOUSE,PARADISE STREET,OXFORD
 OX1 1LD,UK
- IM JOURNAL OF NEUROPSYCHIATRY AND
 CLINICAL NEUROSCIENCES
 J NEUROPSYCHIATRY CLIN NEUROSCI
 1N1,WINTER 1989—
 AMERICAN PSYCHIATRIC PRESS
 WASHINGTON DC UNITED STATES
 INCLUDES A SEPARATELY PAGED SECTION
 WITH TITLE: SUPPLEMENT TO THE JOURNAL OF
 NEUROPSYCHIATRY AND CLINICAL NEURO-
 SCIENCES, V. 1, NO. 1, SUPPL. 1- .
 THE OFFICIAL JOURNAL OF THE AMERICAN
 NEUROPSYCHIATRIC ASSOCIATION.
 INDEXING BEGAN WITH V1N1,WINTER 1989.
 W1 JO795BD 0895-0172
 SR0062252 JC: BJO
- IM NEUROMUSCULAR DISORDERS
 NEUROMUSCUL DISORD
 1,1991—
 PERGAMON
 OXFORD ENGLAND
 INDEXING BEGAN WITH V1N1,1991.
 W1 NE337GB 0960-8966
 SR0069808 JC: BJS
- IM JOURNAL OF SUBSTANCE ABUSE
 J SUBST ABUSE
 1,1988/89—
 ABLEX
 NORWOOD NJ UNITED STATES
 INDEXING BEGAN WITH V1N1,1988.
 W1 JO905CJ 0899-3289
 SR0065909 JC: BJP
- IM NEUROSURGERY CLINICS OF NORTH AMERICA
 NEUROSURG CLIN N AM
 1,1990—
 W.B. SAUNDERS
 PHILADELPHIA PA UNITED STATES
 EACH ISSUE HAS ALSO A DISTINCTIVE TITLE.
 SPINE TITLE: NEUROSURGERY CLINICS.
 INDEXING BEGAN WITH V1N1,1990.
 W1 NE343S 1042-3680
 SR0065657 JC: BJT

TITLES SELECTED FOR INDEXING, JULY-AUGUST 1992

IM PLANT CELL
 PLANT CELL
 1,1989—
 AMERICAN SOCIETY OF PLANT PHYSIOLOGISTS
 ROCKVILLE MD UNITED STATES
 INDEXING BEGAN WITH V1N1,1989.
 W1 PL105LG 1040-4651
 SR0065344 JC: BJU

IM THYROID
 THYROID
 1N1,1990—
 MARY ANN LIEBERT
 NEW YORK NY UNITED STATES
 OFFICIAL JOURNAL OF THE AMERICAN THYROID
 ASSOCIATION.
 INDEXING BEGAN WITH V1N1,1990.
 W1 TH959 1050-7256
 SR0068852 JC: BJW
 MARY ANN LIEBERT,16511 THIRD AVENUE,
 NEW YORK NY 10120

IM PROTEIN EXPRESSION AND PURIFICATION
 PROTEIN EXPR PURIF
 1N1,SEP 1990—
 ACADEMIC PRESS
 DULUTH MN UNITED STATES
 FREQUENCY VARIES: SEMIANNUAL, VOL. 1,
 1990; SIX TIMES A YEAR, VOL. 2, 1991- .
 VOL. 1 COMPLETE IN 2 ISSUES; SOME ISSUES
 PUBLISHED IN COMBINED FORM.
 INDEXING BEGAN WITH V1N1,SEP 1990.
 W1 PR787T 1046-5928
 SR0066931 JC: BJW

IM WOMENS HEALTH ISSUES
 WOMENS HEALTH ISSUES
 1N1,FALL 1990—
 ELSEVIER SCIENCE PUBLISHING
 NEW YORK NY UNITED STATES
 RUNNING TITLE: WHI. OFFICIAL PUBLICATION
 OF THE JACOBS INSTITUTE OF WOMENS
 HEALTH. INCLUDES SUPPLEMENT: THE
 WOMENS HEALTH DATA BOOK. VOL. 1 (1990-
 1991) COMPLETE IN FOUR REGULAR ISSUES,
 WITH NO REGULAR ISSUE PUBLISHED FOR
 SPRING 1991.
 INDEXING BEGAN WITH V1N1,FALL 1990.
 W1 WO465L 1049-3867
 SR0068825 JC: BJW

INI SEIROKA KANGO DAIGAKU KIYO
 SEIROKA KANGO DAIGAKU KIYO
 1,1975?—
 ST. LUKES COLLEGE OF NURSING
 TOKYO JAPAN
 INDEXING BEGAN WITH V18,1992.
 IN PROCESS 0289-2863
 SR0074840 JC: BKO

TITLE CHANGES, JULY-AUGUST 1992

IM BULLETIN DE LA SOCIETE DE PATHOLOGIE
 EXOTIQUE
 BULL SOC PATHOL EXOT
 83,1990—
 MASSON
 PARIS FRANCE
 CONTINUES: BULLETIN DE LA SOCIETE DE
 PATHOLOGIE EXOTIQUE ET DE SES FILIALES.
 INDEXING BEGAN WITH V83N1,1990.
 IN PROCESS
 SR0074939 JC: BK9

IDL DENTAL ASSISTANT JOURNAL
 DENT ASSIST J
 61,1992—
 AMERICAN DENTAL ASSISTANTS ASSOCIATION
 CHICAGO IL UNITED STATES
 QUARTERLY. CONTINUES: DENTAL ASSISTANT.
 INDEXING BEGAN WITH V61N1,1992.
 W1 DE169C 0011-8508
 SR0074888 JC: BKY

TITLE CHANGES, JULY-AUGUST 1992

- IDL ENDO
 ENDO
 11N2, JUN 1992—
 SOCIETE FRANCAISE D ENDODONTIE
 PARIS FRANCE
 QUARTERLY.
 INDEXING BEGAN WITH V11N1, 1992.
 W1 EN362 0294-1813
 SR0074915 JC: BK2
- IM EUROPEAN ARCHIVES OF
 OTO-RHINO-LARYNGOLOGY.
 SUPPLEMENT
 EUR ARCH OTORHINOLARYNGOL SUPPL
 1, 1992—
 SPRINGER VERLAG
 BERLIN GERMANY
 SUPPLEMENT TO: EUROPEAN ARCHIVES OF
 OTO-RHINO-LARYNGOLOGY.
 CONTINUES: ARCHIVES OF OTO-RHINO-
 LARYNGOLOGY. SUPPLEMENT.
 INDEXING BEGAN WITH V1, 1992.
 W1 EU612FEA 0934-2400
 SR0074918 JC: BK5
- IM FARADAY DISCUSSIONS
 FARADAY DISCUSS
 N92, 1991—
 FARADAY DIVISION, ROYAL SOCIETY OF CHEMISTRY
 LONDON ENGLAND
 BIANNUALLY. ISSUED 1991-. CONTINUES:
 FARADAY DISCUSSIONS OF THE CHEMICAL SOCIETY.
 INDEXING BEGAN WITH N92, 1992.
 W1 FA459 0301-7249
 SR0074884 JC: BKT
- IM GYNAKOLOGISCH-GEBURTSHILFLICHE
 RUNDSCHAU
 GYNKOL GEBURTSHILFLICHE RUNDSCH
 32, 1992—
 KARGER
 BASEL SWITZERLAND
 OFFICIAL ORGAN OF: OSTERREICHISCHE
 GESELLSCHAFT FUR GYNAKOLOGIE UND
 GEBURTSHILFE. CONTINUES:
 GYNAKOLOGISCHE RUNDSCHAU.
 INDEXING BEGAN WITH V32N1, 1992.
 W1 GY555T 1018-8843
 SR0074919 JC: BK6
- HLI HEALTHCARE INFORMATION MANAGEMENT
 HEALTHC INF MANAGE
 1N4, NOV 1987—
 HEALTHCARE INFORMATION AND MANAGE-
 MENT SYSTEMS
 CHICAGO IL UNITED STATES
 RUNNING TITLE: JOURNAL OF THE
 HEALTHCARE INFORMATION AND MANAGE-
 MENT SYSTEMS SOCIETY. CONTINUES:
 HEALTH CARE SYSTEMS. CONTINUES ISSUE
 NUMBERING OF HEALTH CARE SYSTEMS.
 INDEXING BEGAN WITH V6N1, 1992.
 W1 HE298PN
 SR0061957 JC: BI4
- IM INTERNATIONAL ARCHIVES OF ALLERGY AND
 IMMUNOLOGY
 INT ARCH ALLERGY IMMUNOL
 97, 1992—
 KARGER
 BASEL SWITZERLAND
 CONTINUES: INTERNATIONAL ARCHIVES OF
 ALLERGY AND APPLIED IMMUNOLOGY.
 INDEXING BEGAN WITH V97N1, 1992.
 W1 IN7042 1018-2438
 SR0074684 JC: BJ7
- HLI LEADERSHIP IN HEALTH SERVICES
 LEADERSH HEALTH SERV
 1, 1992—
 CANADIAN HOSPITAL ASSOCIATION
 OTTAWA CANADA
 OFFICIAL JOURNAL OF THE CANADIAN HOSPI-
 TAL ASSOCIATION. FORMED BY THE UNION OF
 DIMENSIONS IN HEALTH SERVICE, AND: HOS-
 PITAL TRUSTEE.
 INDEXING BEGAN WITH V1N1, JAN/FEB 1992.
 W1 LE11 1188-3669
 SR0072958 JC: BK4
- IM PNEUMOPTIZIOLOGIA
 PNEUMOPTIZIOLOGIA
 40N1, JAN/MAR 1991—
 SOCIETATEA ROMANA DE PNEUMOPTIZIOLOGIE
 BUCURESTI ROMANIA
 CONTINUES: REVISTA DE IGIENA, MEDICINA
 MUNCII, MEDICINA SOCIALA, BACTERIOLOGIE,
 VIRUSOLOGIE, PARAZITOLOGIE,
 EPIDEMIOLOGIE, PNEUMOPTIZIOLOGIE.
 PNEUMOPTIZIOLOGIE.
 INDEXING BEGAN WITH V40N1, 1991.
 W1 PN283
 SR0074927 JC: BK8

TITLE CHANGES, JULY-AUGUST 1992

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>IM POPULATION REPORTS. SERIES C, FEMALE
POP STERILIZATION
POPUL REP C
N8,SEP 1980—
POPULATION INFORMATION PROGRAM, THE
JOHNS HOPKINS UNIVERSITY
BALTIMORE MD UNITED STATES
EACH NO. ALSO HAS A DISTINCTIVE TITLE.
ISSUED ALSO IN FRENCH: POPULATION RE-
PORTS. SERIE C, STERILISATION DE FEMMES.
NLM ONLY COLLECTS THE ENGLISH EDITION.
CONTINUES: POPULATION REPORTS. SERIES
C; STERILIZATION FEMALE.
INDEXING BEGAN WITH N8,SEP 1980.
IN PROCESS 0891-0030
SR0074960 JC: BLA</p> | <p>HLI TOPICS IN HEALTH INFORMATION MANAGEMENT
TOP HEALTH INF MANAGE
13,1992—
ASPEN PUBLISHERS
FREDERICK MD UNITED STATES
CONTINUES: TOPICS IN HEALTH RECORDS
MANAGEMENT.
INDEXING BEGAN WITH V13N1,1992.
W1 TO539MO
SR0074625 JC: BJ6</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- IM PT
PT
73,1993?—
AMERICAN PHYSICAL THERAPY ASSOCIATION
ALEXANDRIA VA UNITED STATES
CONTINUES: PHYSICAL THERAPY.
INDEXING BEGAN WITH V73,1993.
ON ORDER
SR0074557 JC: BJ2

TITLES NO LONGER INDEXED AS OF JULY-AUGUST 1992

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>IM ARCHIVOS DE NEUROBIOLOGIA
ARCH NEUROBIOL (MADR)
2S16,1936—
F.G. SICILIA
MADRID SPAIN
INDEXING FOR ONLINE FILES BEGAN WITH
V28N2,APR-JUN 1965 AND CEASED WITH
V55N6,NOV-DEC 1992.
W1 AR697 0004-0576
A64605000 JC: 7ZC</p> | <p>IM CHUNG-HUA SHEN CHING CHING SHEN KO TSA CHIH
[CHINESE JOURNAL OF NEUROLOGY AND
PSYCHIATRY]
CHUNG HUA SHEN CHING CHING SHEN KO TSA
CHIH
1,1955—
CHINESE MEDICAL ASSOCIATION
PEKING CHINA
ISSUED BY THE SHEN-CHING-CHING-SHEN-KO-
HSUEH-HUI OF THE CHUNG-HUA-I-HSUEH-
HUI, PEIPING.
PUBLICATION SUSPENDED 1967-1977.
INDEXING BEGAN WITH V12,N1,1979 AND
CEASED WITH V25N6,NOV 1992.
W1 CH9845 0412-4057
C21200000 JC: D7Y</p> |
| <p>IM CESKOSLOVENSKA NEUROLOGIE A
NEUROCHIRURGIE
CESK NEUROL NEUROCHIR
36,1973—
CZECHOSLOVAK MEDICAL SOCIETY J.E.
PURKYNE
PRAHA CZECHOSLOVAKIA
CONTINUES CESKOSLOVENSKA NEUROLOGIE.
IMPRINT VARIES: AVICENUM, VOLS. -54 NO. 2
(19 -1991); CZECHOSLOVAK MEDICAL SOCIETY
J.E. PURKYNE, VOL. 54 NO. 3 (1991)-
INDEXING CEASED WITH V54N4,1991.
W1 CE897E 0301-0597
C13260000 JC: CV6</p> | |

TITLES NO LONGER INDEXED AS OF JULY-AUGUST 1992

- IM EEG-EMG ZEITSCHRIFT FUR
ELEKTROENZEPHALOGRAPHIE,
ELEKTROMYOGRAPHIE
UND VERWANDTE GEBIETE
EEG EMG Z ELEKTROENZEPHALOGR
ELEKTROMYOGR
VERWANDTE GEB
1,1970—
GEORG THIEME VERLAG
STUTT GART GERMANY
INDEXING BEGAN WITH V7N1,MAR 1976 AND
CEASED WITH V23N4,DEC 1992.
W1 E2 0012-7590
E02880000 JC: EED
- IM HOMEOSTASIS IN HEALTH AND DISEASE
HOMEOST HEALTH DIS
33,1991—
CZECHOSLOVAK MEDICAL SOCIETY J. EV.
PURKYNE
PRAGUE CZECHOSLOVAKIA
CONTINUES: ACTIVITAS NERVOSA SUPERIOR.
CAPTION TITLE:HOMEOSTASIS. OFFICIAL JOUR-
NAL OF CIANS (COLLEGIUM INTERNATIONALE
ACTIVITATIS NERVOSAE SUPERIORIS).
INDEXING BEGAN WITH 33N1,1991 AND CEASED
WITH V33N4,DEC 1991.
W1 HO519B 0960-7560
SR0069036 JC: A2Z
- IM ISOZYMES: CURRENT TOPICS IN BIOLOGICAL
MEDICAL RESEARCH
ISOZYMES CURR TOP BIOL MED RES
1,1977-16,1987
ALAN R LISS
NEW YORK NY UNITED STATES
INDEXING BEGAN WITH V.4 1980
W1 IS62 0160-3787
I40120000 JC: GXW
- IM LABORATORY AND RESEARCH METHODS IN
BIOLOGY AND MEDICINE
LAB RES METHODS BIOL MED
1,1977-10,1984
ALAN R LISS
NEW YORK NY UNITED STATES
INDEXING BEGAN WITH V.5,1981.
W1 LA205T 0160-8584
L01200000 JC: L2V
- IM MONOGRAPHS IN NEURAL SCIENCES
MONOGR NEURAL SCI
1,1973—
KARGER
BASEL SWITZERLAND
INDEXING BEGAN WITH V1,1973 AND CEASED
WITH V13,1987.
W1 MO568C 0300-5186
M46840000 JC: NII
- IM NEIROFIZIOLOGIIA
NEIROFIZIOLOGIIA
1,1969—
IZDATELSTVO NAUKOVA DUMKA
KIEV USSR
INDEXING BEGAN WITH V3N1,JAN-FEB 1971 AND
CEASED WITH V24N6,1992.
W1 NE195K 0028-2561
N11240000 JC: NVJ
- IM NERVNAIA SISTEMA
NERV SIST
1,1960—
IZDATELSTVO LENINGRADSKOGO
UNIVERSITETA
LENINGRAD USSR
VOLS. 1-13 ISSUED BY THE FIZIOLOGICHESKII
INSTITUT IMENI AKAD. A.A. UKHTOMSKOGO;
V.14-20? BY THE MINISTERSTVO VYSSHEGO I
SREDNEGO SPETSIALNOGO OBRAZOVANIIA
RSFSR; V.21? BY THE LENINGRADSKII ORDENA
LENINA I ORDENA TRUDOVOGO KRASNOGO
ZNAMENI GOSUDARSTVENNYI UNIVERSITET
IMENI A.A. ZHDANOVA.
INDEXING FOR ONLINE FILES BEGAN WITH
V6,1965 AND CEASED WITH V30,1991.
W1 NE208 0470-6625
N11800000 JC: NWI
- IM NEUROLOGIA CROATICA
NEUROL CROAT
40,1991—
NEUROLOSKE KLINKE I ZAVODA ZA
NEUROPATHOLOGIJU KLINICKOG BOLNICK OG
CENTRA I MEDICINSKOG FAKULTETA
SVEUCILISTA U
ZAGREBU
ZAGREB YUGOSLAVIA
CONTINUES: NEUROLOGIJA. OFFICIAL JOUR-
NAL OF YUGOSLAV NEUROLOGICAL ASSOCIA-
TION.
INDEXING BEGAN WITH V40N1,1991 AND CEASED
WITH V41N4,1992.
W1 NE328N 0353-8842
SR0071421 JC: A39

TITLES NO LONGER INDEXED AS OF JULY-AUGUST 1992

- IM NUOVA RIVISTA DI NEUROLOGIA
 NUOVA RIV NEUROL
 61N1, JAN/FEB 1991-62N2, MAR-APR 1991; 1N3
 MAY-JUN 1991—
 PENSIERO SCIENTIFICO EDITORE
 ROMA ITALY
 ISSUES FOR JAN.-APR 1991 CARRY THE VOL-
 UME NUMBERING OF THE FORMER TITLE,
 RIVISTA DI NEUROLOGIA. ISSUES FOR MAY
 1991- CALED V.1, N.3— . CONTINUES: RIVISTA
 DI NEUROLOGIA.
 INDEXING BEGAN WITH V61N1, 1991 AND CEASED
 WITH V61N6, NOV-DEC 1991.
 W1 NU373E 0035-6344
 SR0074393 JC: BI3
- IM PAIN AND HEADACHE
 PAIN HEADACHE
 7, 1985—
 KARGER
 BASE SWITZERLAND
 CONTINUES: RESEARCH AND CLINICAL STUD-
 IES IN HEADACHE.
 INDEXING BEGAN WITH V7, 1985 AND CEASED
 WITH V11, 1989.
 W1 PA293 0255-3910
 SR0051360 JC: PHA
- POP POPULI
 POPULI
 1, 1974-18, 1991
 POPULI
 NEW YORK NY UNITED STATES
 PUBLISHED BY THE UNITED NATIONS POPU-
 LATION FUND.
 INDEXING BEGAN WITH V1N4, JUL 1974.
 W1 PO678 0251-6861
 P20040000 JC: PG5
- IM REVISTA DE MEDICINA INTERNA, NEUROLOGIE,
 PSIHIATRIE, NEUROCHIRURGIE,
 DERMATO-VENEROLOGIE. NEUROLOGIE,
 PSIHIATRIE, NEUROCHIRURGIE REV MED
 INTERNA NEUROL PSIHIATR NEUROCHIR
 DERMATOVENEROL NEUROL PSIHIATR
 NEUROCHIR
 19N4, 1974-35N1, JAN/MAR 1990
 EDITURA MEDICALA
 BUCURESTI ROMANIA
 CONTINUES NEUROLOGIE, PSIHIATRIA,
 NEUROCHIRURGIA. CONTINUED BY:
 NEUROLOGIE, PSIHIATRIE, NEUROCHIRURGIE.
 INDEXING BEGAN WITH V19N4, 1974 AND
 CEASED
 WITH V35N1, JAN-MAR 1990.
 W1 RE427HC 0377-497X
 R37380000 JC: SLJ
- IM THROMBOSIS RESEARCH. SUPPLEMENT
 THROMB RES SUPPL
 1, JUN 1974-14, 1991
 PERGAMON PRESS
 ELMSFORD NY UNITED STATES
 ISSUES FOR JUNE 1974, MAY 1976 CALLED ALSO
 V. 4, 8. SUPPLS 1-3 ISSUED WITH MAIN TITLE.
 SUPPLEMENT TO: THROMBOSIS RESEARCH.
 LATER SUPPLEMENTS ISSUED WITH
 THROMBOSIS RESEARCH.
 INDEXING BEGAN WITH V4, 1983.
 W1 TH945 0049-3848
 T09400000 JC: VRO

1993 WEEKLY UPDATE SCHEDULE FOR MEDLINE

<u>Entry Month</u>	<u>Updated MEDLINE Available</u>	<u>Date of Entry (DA) Ranges</u>
9301 (EM)	Dec 14	921023-921125*
9302 (EM)	Dec 26	921126-921224
9303 (EM)		
Part 1	Jan 2	921225-921231
Part 2	Jan 9	930101-930107
Part 3	Jan 16	930108-930114
Part 4	Jan 23	930115-930121
Part 5	Jan 30	930122-930128
9304 (EM)		
Part 1	Feb 6	930129-930204
Part 2	Feb 13	930205-930211
Part 3	Feb 20	930212-930218
Part 4	Feb 27	930219-930225
9305 (EM)		
Part 1	Mar 6	930226-930304
Part 2	Mar 13	930305-930311
Part 3	Mar 20	930312-930318
Part 4	Mar 27	930319-930325
9306 (EM)		
Part 1	Apr 3	930326-930401
Part 2	Apr 10	930402-930408
Part 3	Apr 17	930409-930415
Part 4	Apr 24	930416-920422
9307 (EM)		
Part 1	May 1	930423-930429
Part 2	May 8	930430-930506
Part 3	May 15	930507-930513
Part 4	May 22	930514-930520
Part 5	May 29	930521-930527
9308 (EM)		
Part 1	Jun 5	930528-930603
Part 2	Jun 12	930604-930610
Part 3	Jun 19	930611-930617
Part 4	Jun 26	930618-930624

<u>Entry Month</u>	<u>Updated MEDLINE Available</u>	<u>Date of Entry (DA) Ranges</u>
9309 (EM)		
Part 1	Jul 3	930625-930701
Part 2	Jul 10	930702-930708
Part 3	Jul 17	930709-930715
Part 4	Jul 24	930716-930722
Part 5	Jul 31	930723-930729
9310 (EM)		
Part 1	Aug 7	930730-930805
Part 2	Aug 14	930806-930812
Part 3	Aug 21	930813-930819
Part 4	Aug 28	930820-930826
9311 (EM)		
Part 1	Sep 4	930827-930902
Part 2	Sep 11	930903-930909
Part 3	Sep 18	930910-930916
Part 4	Sep 25	930917-930923
9312 (EM)		
Part 1	Oct 2	930924-930930
Part 2	Oct 9	931001-931007
Part 3	Oct 16	931008-931014
Part 4	Oct 23	931015-931021
Part 5	Oct 30	931022-931028
9401 (EM)	Dec.13	931029-931124*

*Modified because of holiday

Search hint: If a patron wants weekly updates to a search, use the pattern shown below, where SS 1: represents your completed search strategy.

- On August 7 - SS 1: AND 9310 (EM)
- On August 14 - SS 1: AND 9310 (EM) AND FROM 930806 TO 930812 (DA)
- On August 21 - SS 1: AND 9310 (EM) AND FROM 930813 TO 930819 (DA)
- On August 28 - SS 1: AND 9310 (EM) AND FROM 930820 TO 930826 (DA)

1993 MONTHLY UPDATE SCHEDULE FOR NLM DATABASES

<u>Entry Month</u>	<u>SDILINE Available</u>	<u>HEALTH/ BIOTECHSEEK Available</u>	<u>POPLINE/ CANCERLIT Available</u>	<u>TOXLINE/LIT Available</u>
9301	Dec 14	Dec 14	Jan 9	Jan 9
9302	Dec 26	Jan 2	Feb 6	Feb 13
9303	Jan 30	Feb 6	Mar 6	Mar 13
9304	Feb 27	Mar 6	Apr 3	Apr 10
9305	Mar 27	Apr 3	May 8	May 8
9306	Apr 24	May 1	Jun 5	Jun 12
9307	May 29	Jun 5	Jul 3	Jul 10
9308	Jun 26	Jul 3	Aug 7	Aug 14
9309	Jul 31	Aug 7	Sep 4	Sep 11
9310	Aug 28	Sep 4	Oct 9	Oct 9
9311	Sep 25	Oct 2	Nov 6	Nov 13
9312	Oct 30	Nov 6	Dec 4	Dec 11

December updates for POPLINE, CANCERLIT, AND TOXLINE/TOXLIT are subject to change.

For MEDLINE updates, see the "1993 Weekly Update Schedule for MEDLINE."

For AIDSLINE updates, see the "1993 Update Schedule for AIDSLINE."

1993 UPDATE SCHEDULE FOR AIDSLINE

<u>Entry Month</u>	<u>Updated AIDSLINE Available</u>
9301 (EM)	Jan 2
9302 (EM)	Jan 2
9303 (EM)	
Part 1	Jan 2
Part 2	Jan 9
Part 3	Jan 16
Part 4	Jan 23
Part 5	Jan 30
Part 6	Feb 9*
9304 (EM)	
Part 1	Feb 6
Part 2	Feb 13
Part 3	Feb 20
Part 4	Feb 27
Part 5	Mar 9*
9305 (EM)	
Part 1	Mar 6
Part 2	Mar 13
Part 3	Mar 20
Part 4	Mar 27
Part 5	Apr 6*
9306 (EM)	
Part 1	Apr 3
Part 2	Apr 10
Part 3	Apr 17
Part 4	Apr 24
Part 5	May 4*
9307 (EM)	
Part 1	May 1
Part 2	May 8
Part 3	May 15
Part 4	May 22
Part 5	May 29
Part 6	Jun 8*

<u>Entry Month</u>	<u>Updated AIDSLINE Available</u>
9308 (EM)	
Part 1	Jun 5
Part 2	Jun 12
Part 3	Jun 19
Part 4	Jun 26
Part 5	Jul 6*
9309 (EM)	
Part 1	Jul 3
Part 2	Jul 10
Part 3	Jul 17
Part 4	Jul 24
Part 5	Jul 31
Part 6	Aug 10*
9310 (EM)	
Part 1	Aug 7
Part 2	Aug 14
Part 3	Aug 21
Part 4	Aug 28
Part 5	Sep 7*
9311 (EM)	
Part 1	Sep 4
Part 2	Sep 11
Part 3	Sep 18
Part 4	Sep 25
Part 5	Oct 5*
9312 (EM)	
Part 1	Oct 2
Part 2	Oct 9
Part 3	Oct 16
Part 4	Oct 23
Part 5	Oct 30
Part 6	Nov 9*

*The last update portion includes data derived from HEALTH, CANCERLIT, CATLINE, and AVLINE. The other update portions are the MEDLINE-derived data. Please note that the last update portion to complete the Entry Month routinely occurs about 3 days after Part 1 of the next Entry Month is added, e.g., Part 6 of 9309 (EM) is added August 10, after Part 1 of 9310 (EM) which is added on August 7.

1993 MeSH HEADING PRE-EXPLOSIONS

<u>PRE-EXPLODED MESH HEADING</u>	<u>TREE NUMBER(S)</u>
ABNORMALITIES	C16.131
ADULT	M1.471.116
AGED	M1.471.116.100
ANESTHESIA	E3.155
ANTI-INFECTIVE AGENTS	D20
ANTIBIOTICS	D20.85
ANTIBODIES	D24.611.125
ANTINEOPLASTIC AGENTS	D22.204
BACTERIA	B3
BACTERIAL INFECTIONS	C1.252
BEHAVIOR	F1.145
BEHAVIOR A#D BEHAVIOR MECHANISMS	F1
BEHAVIORAL A#D MENTAL DISORDERS	F3
BIOCHEM PHENOM METAB	G6
BLOOD PROTEINS	D12.776.124
BRAIN	A8.186.211
CARBOHYDRATES	D9.203
CARDIOVASCULAR AGENTS	D18
CARDIOVASCULAR DISEASES	C14
CARDIOVASCULAR SYSTEM	A7
CELLS	A11
CENTRAL NERVOUS SYSTEM	A8.186
CENTRAL NERVOUS SYSTEM DISEASES	C10.228
CHEMISTRY, ANALYTICAL	E5.196; H1.181.278
CHILD	M1.471.392
CIRCULATORY, RESPIRATORY PHYSIOLOGY	G9
DENTISTRY	E6; G2.163
DIAGNOSIS, LABORATORY	E1.223
DIGESTIVE SYSTEM DISEASES	C6
ENZYMES	D8.586
EPIDEMIOLOGIC METHODS	E5.318; G3.850.520
EQUIPMENT A#D SUPPLIES	E7
GASTROINTESTINAL DISEASES	C6.405
GENETICS	G1.273.343; G5
HEALTH FACILITIES	N2.278
HEALTH SERVICES	N2.421
HEART DISEASES	C14.280
HORMONES	D6.472
IMMUNITY	G4.610
IMMUNOLOGIC FACTORS	D24.611
INFANT	M1.471.392.520
INVERTEBRATES	B1

<u>PRE-EXPLODED MESH HEADING</u>	<u>TREE NUMBER(S)</u>
LIPIDS	D10.516
MAMMALS	B2.649
MENTAL DISORDERS	F3.709
METABOLIC DISEASES	C18.452
METALS	D1.552; J1.637.517
MISCELLANEOUS TECHNIQUES	E5
MUSCULOSKELETAL DISEASES	C5
MUSCULOSKELETAL SYSTEM	A2
NEOPLASMS	C4
NERVOUS SYSTEM	A8
NERVOUS SYSTEM DISEASES	C10
NEUROLOGIC MANIFESTATIONS	C10.597; C23.888.592
ORGANIZATION A#D ADMINISTRATION	N4.452
PHYSIOLOGY, GENERAL	G7
PROTEINS	D12.776
PSYCHOLOGIC PROCESSES PRINCIPLES	F2
PUBLIC HEALTH	G2.403.790.548.560; G3.850; N1.407.540.740
REPRODUCTION, UROGENITAL PHYSIOLOGY	G8
RESPIRATORY TRACT DISEASES	C8
RODENTIA	B2.649.865
SIGN AND SYMPTOMS	C23.888
SKIN DISEASES	C17.800
STENT	D4.808
STOMATOLOGNATHIC DISEASES	C7
SURGERY, OPERATIVE	E4
UNITED STATES *	Z1.107.567.875
UNITED STATES PL **	Z1.107.567.875
VASCULAR DISEASES	C14.907
VERTEBRATE VIRUSES	B4.909
VERTEBRATES	B2
VIRUS DISEASES	C2
VIRUSES	B4
WOUNDS A#D INJURIES	C21.866

* When United States is the subject of an article.

** When United States is the place of publication.

MeSH Heading Pre-explosions are searchable only by the Pre-explosion Name (PX) or *Pre-explosion (PX) and not by the tree number(s). See also Subheading Pre-explosions.

FAMILIES OF 1993 SUBHEADING PRE-EXPLOSIONS

analysis blood cerebrospinal fluid isolation & purification urine	etiology (cont'd) genetics immunology microbiology parasitology transmission	physiology (con t'd) metabolism (cont'd) cerebrospinal fluid deficiency enzymology pharmacokinetics urine
anatomy & histology blood supply cytology pathology ultrastructe embryology abnormalities innervation	organization & admin economics legislation & jurisprudence manpower standards supply & distribution trends utilization	physiopathology secretion
chemistry analogs & derivatives antagonists & inhibitors chemical synthesis	pharmacology adminstration & dosage adverse effects poisoning toxicity	statistics & numer data epidemiology ethnology mortality
diagnosis pathology radiography radionuclide imaging ultrasonography	contraindications diagnostic use pharmacokinetics	therapeutic use administration & dosage adverse effects contraindications poisoning
etiology chemically induced complications secondary congenital embryology	physiology genetics growth & development immunology metabolism biosynthesis blood	therapy diet therapy drug therapy nursing prevention & control radiotherapy rehabilitation surgery transplantation

ALPHABETIC LIST OF 1993 SUBHEADINGS THAT CAN BE PRE-EXPLODED

<u>FULL NAME</u>	<u>SHORT FORM</u>	<u>FULL NAME</u>	<u>SHORT FORM</u>
adverse effects&	AE&	etiology&	ET&
analysis&	AN&	metabolism&	ME&
anatomy & histology&	AH&	organization & admin&	OG&
chemistry&	CH&	pharmacology&	PD&
complications&	CO&	physiology&	PH&
cytology&	CY&	statistics & numer data&	SN&
diagnosis&	DI&	surgery&	SU&
embryology&	EM&	therapeutic use&	TU&
epidemiology&	EP&	therapy&	TH&

Final ampersand and the qualifier (PX) are needed to search; either the full name or short form may be used. The * may not be used in front of a subheading pre-explosion.

**1993
COMPUTER HOLIDAY SCHEDULE**

Listed below is the computer holiday schedule for the ELHILL system of databases and PDQ for Christmas 1992 as well as the entire calendar year of 1993. The NLM computer is scheduled to be UP on every holiday listed below. The available NLM computer hours are shown as either guaranteed or non-guaranteed. Guaranteed means that the computer center is staffed and in the event of a computer shutdown, the computer will be restarted. Non-guaranteed means that the computer center is not staffed and in the event of an unscheduled computer shutdown the system will not be restarted until 11:00 PM prior to the next NLM workday. "Observed" indicates U.S. Federal government observance of the holiday. Non-prime rates will be in effect on non-guaranteed holidays and on guaranteed holidays when the MEDLARS Service Desk is not staffed.

HOLIDAY	DATE	SYSTEM STATUS
Christmas Day 1992	Fri. Dec 25	Non-guaranteed*
New Year's Day 1993	Fri. Jan 1	Non-guaranteed*
Martin Luther King's Birthday		
(actual)	Fri. Jan 15	Guaranteed**
(observed)	Mon. Jan 18	Non-guaranteed*
Inauguration Day	Wed. Jan 20	Non-guaranteed*
President's Day	Mon. Feb 15	Non-guaranteed*
Memorial Day		
(actual)	Sun. May 30	Non-guaranteed*
(observed)	Mon. May 31	Non-guaranteed*
Independence Day		
(actual)	Sun. Jul 4	Non-guaranteed*
(observed)	Mon. Jul 5	Non-guaranteed*
Labor Day	Mon. Sep 6	Non-guaranteed*
Columbus Day		
(observed)	Mon. Oct 11	Non-guaranteed*
(actual)	Tue. Oct 12	Guaranteed**
Veterans Day	Thu. Nov 11	Non-guaranteed*
Thanksgiving Day	Thu. Nov 25	Non-guaranteed*
Christmas Day 1993		
(observed)	Fri. Dec 24	Non-guaranteed*
(actual)	Sat. Dec 25	Non-guaranteed*

* Non-prime rates are in effect all day.

** Prime rates are in effect from 10am - 5pm, ET.

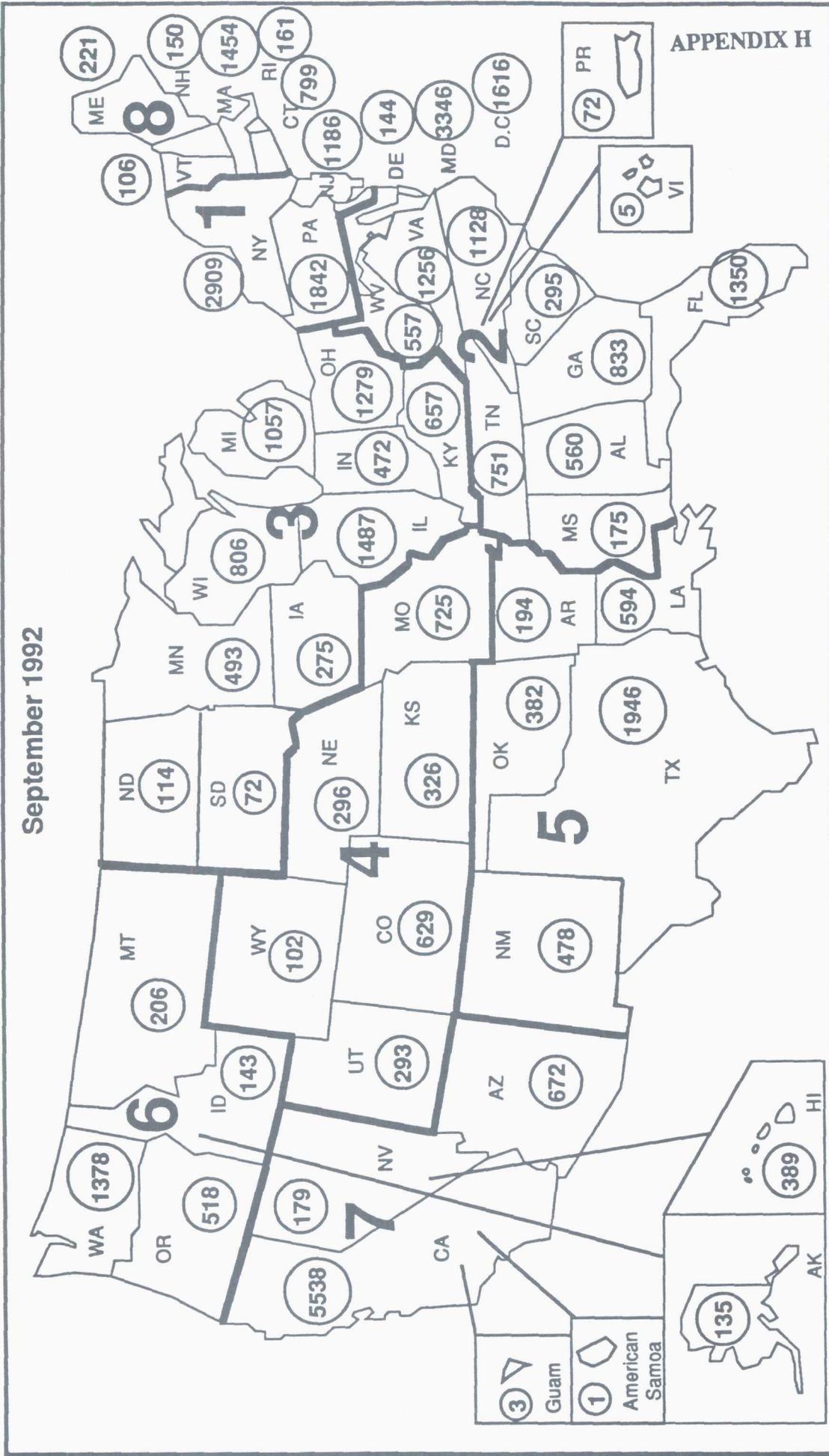
The TOXNET computer status is always guaranteed. Non-prime rates will be in effect on all holidays marked with a single asterisk above.

DOCLINE will be available (non-guaranteed) on all U.S. Federal government holidays (observed) except Christmas Day, New Year's Day, Thanksgiving Day, Memorial Day, Independence Day, and Labor Day.

Notice of changes to this schedule and/or temporary changes in hours of operation will also appear as soon as any are identified in the online NEWS.

National Library of Medicine Online Codes in the United States

September 1992



Online Centers Region 1 - 6,081 Region 2 - 11,944 Region 3 - 6,712 Region 4 - 2,371
 by Region: Region 5 - 3,594 Region 6 - 2,380 Region 7 - 6,782 Region 8 - 2,891
TOTAL - 42,755

COMPLIMENT/CONCERN

NAME:

USER ID CODE:

ADDRESS:

COMMENTS:

We work for you. Please tell us what is right and what you would like to see changed.

Return to: MEDLARS Management Section
National Library of Medicine
Bethesda, MD 20894 (FAX 301-496-0822)

CHANGE OF ADDRESS - U.S. USERS ONLY

You MUST include your User ID Code:

Mailing Information:

Billing Information, if different:

Address:

Address:

Daytime Phone:

Daytime Phone:

Check here if you purchased Grateful Med. The new address information will be forwarded to NTIS.

Return to: MEDLARS Management Section
National Library of Medicine
Bethesda, MD 20894 (FAX 301-496-0822)

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Appendix A: MEDLARS Pricing Schedule
1993

Appendix B: Revised 1993 Weekly Update
Schedule

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MEDLARS®

Pricing Reduction- Effective

January 1, 1993

An announcement in the September-October 1992 issue of the *NLM Technical Bulletin* notified users of a reduction in the cost of MEDLARS online searching as well as the elimination of use fees from NLM licensees receiving MEDLARS data on tape. The detailed MEDLARS Pricing Schedule for 1993, which covers both online access and tape leasing costs, begins on page 37 of this issue of the *Technical Bulletin*. The pricing changes are summarized below. This reduction is in response to Congressional encouragement to enhance access to the Library's biomedical databases. The Congress continues to support the policy under which appropriated funds support the creation of the databases and users pay the cost of access. A surcharge is assessed to cover generation costs for foreign usage. NLM has recalculated its access-related costs according to the Congressional recommendation. The price changes take effect January 1, 1993 for January invoices.

Continued on page 5



MEDLARS® DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL® COMPUTER				
AIDSDRUGS	149		21 NOV 92	
AIDSLINE™**	74,530	JAN 80-DEC 92	10 NOV 92	9212(EM)
AIDSTRIALS	438		21 NOV 92	
AVLINE®	24,468	THROUGH 1992	27 NOV 92	
BIOETHICS®	36,849	JAN 73-NOV 92	27 NOV 92	9212(EM)
BIOTECHSEEK	2,763	JAN 90-DEC 92	07 NOV 92	9212(EM)
CANCERLIT®	920,411	JAN 63-NOV 92	07 NOV 92	9211(EM)
CATLINE®	702,172	THROUGH 1992	27 NOV 92	
CHEMID	267,994		22 FEB 92	
CHEMLINE®	1,147,750		24 OCT 92	9210(EM)
DENTALPROJ	786		02 MAY 92	
DIRLINE®	14,088		20 AUG 92	
DOCUSER	13,492		14 NOV 92	
HEALTH	638,685	JAN 75-DEC 92	07 NOV 92	9212(EM)
HISTLINE®	107,776		07 NOV 92	9211(EM)
MEDLINE®*	1,321,740	JAN 89-DEC 92	24 OCT 92	9212(EM)
MED86	1,009,361	JAN 86-DEC 88	29 AUG 92	
MED83	892,034	JAN 83-DEC 85	25 JUL 92	
MED80	803,673	JAN 80-DEC 82	25 JUL 92	
MED77	776,468	JAN 77-DEC 79	17 JUL 92	
MED72	1,176,178	JAN 72-DEC 76	06 JUN 92	
MED66	1,312,492	JAN 66-DEC 71	13 JUN 92	
MESH VOC®	85,087	1992	24 OCT 92	
NAME AUTH®	380,509		27 NOV 92	
PDQ®		THRU DEC 92	01 DEC 92	
POPLINE	194,494	1970-NOV 92	07 NOV 92	9211(EM)
SDILINE®	27,977	DEC 92	24 OCT 92	9212(EM)
SERLINE®	79,973	1992	10 OCT 92	
TOXLINE®	1,113,062	1981-1992	14 NOV 92	9211(EM)
TOXLINE65	707,236	PRE 1965-1980	07 MAR 92	
TOXLIT™	1,101,083	1981-1992	14 NOV 92	9211(EM)
TOXLIT65	586,405	1965-1980	01 SEP 87	

*N.B. FILE IS UPDATED WEEKLY; THIS IS PART 5 OF 5.

**N.B. FILE IS UPDATED WEEKLY; THIS IS PART 4 OF 4.

TOXNET® COMPUTER

CCRIS	3,889		02 NOV 92	
DART™	14,038		21 NOV 92	
DBIR™	1,930		03 JUN 92	
EMICBACK	75,886		08 SEP 90	
ETICBACK	49,593		08 JUL 90	
GENE-TOX	2,919		21 OCT 92	
HSDB®	4,318		27 NOV 92	
IRIS	632		02 NOV 92	
RTECS®	117,037		20 NOV 92	
TRI87	80,130		30 MAR 92	
TRI88	86,416		31 MAR 92	
TRI89	85,430		24 APR 92	
TRI 90	83,407		10 APR 92	
TRIFACTS	326		10 APR 92	

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National Library of Medicine
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Bethesda, Maryland 20894
(800) 638-8480

MEDLARS Inquiries:
mms@nlm.nih.gov

Grateful Med Inquiries:
gmhelp@gmedserv.nlm.nih.gov

CANCERLIT UNIQUE IDENTIFIER (UI) CHANGES

CANCERLIT records that contain ICDB, CARC, CATH or HERN in the Secondary Source ID (SI) field, will have the Unique Identifier portion of this field modified to replace the 0 (zero) in the third position of the Unique Identifier (UI) string with another number, as follows:

If the SI contains: then the third digit of
the UI string will be:

ICDB	6
CARC	7
CATH	8
HERN	9

For example, this 1992 SI field of ICDB/92084005 will be changed to ICDB/92684005 for 1993. This change will take place in January 1993, after the regular Year-End Processing. These changes to the SI field are necessary to make the UI portion of this field unique for both NLM and NCI processing purposes. (The UI string is also carried separately in a Unique Identifier (UI) field.) These changes may affect you if you have downloaded records into a personal database or are trying to find the record again online from SI information from an old printout.

UPDATED PHONES LIST AVAILABLE

The October 1992 updated Phones List is now available. However due to a lack of space and in the

interest of preserving trees, it will no longer be printed as an appendix to the *Technical Bulletin*. Copies are available as files from the Grateful Med BBS. Directions for downloading can be found in Bulletin 15 on the BBS. Internet users can get the files through an anonymous ftp from gmed.serv.nlm.nih.gov (ip address: 130.14.12.2). The files are located in the /grateful/phones directory on gmedserv. The files are broken down alphabetically by state into four sections: A-C, D-L, M-O, and P-W. You only need to download the section pertaining to your state. If you would prefer a paper copy mail, or fax a request to:

Phones List
MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894
Fax: 301-496-0822

REVISED 1993 WEEKLY UPDATE SCHEDULE

The 1993 Weekly Update Schedule for MEDLINE, which was originally published in the September-October 1992 issue of the *Technical Bulletin* on pages 31-32, Appendix A, has been revised. The only changes are in the Date of Entry (DA) ranges for 9302 (EM) and parts 1 and 2 of 9303 (EM). Appendix B of this issue contains the revised 1993 update schedule.

continued from page 1

ONLINE ACCESS FEES: HIGHLIGHTS

- The cost of searching is reduced to an estimated \$1.25 per average MEDLINE search or about \$18.00 per hour. This is approximately a 40% decrease compared to current charges.
- The Prime Time price differential is eliminated. There is now a single algorithm for computing charges 24 hours a day.
- Charges for TOXNET databases approximate the MEDLINE charge.
- PDQ is reduced to \$18.00 per hour.
- Offline charges remain the same.
- New codes have a \$20 "practice time" credit to be used within 1 year.
- Student codes continue to be billed at a reduced rate which approximates one-half the new regular rates.
- Information for non-U.S. searchers:

The foreign surcharge is assessed at the following rates:

\$2.50 extra per connect hour

\$0.02 extra per 1,000 characters transmitted online

\$0.10 extra per page printed offline

The following databases are exempted from the foreign surcharge: AIDS DRUGS, AIDS LINE, AVLINE, CATLINE, MeSH VOCABULARY FILE, NAME AUTHORITY FILE, and SERLINE.

See Part 2 of the Pricing Schedule in Appendix A for details of the new algorithm used to determine the cost of each MEDLARS online search performed.

TAPE LEASING FEES: HIGHLIGHTS

- The major change is the elimination of use charges. Licensees have paid these charges based upon system use, concurrent users, or products sold and often passed these charges

through to their users. Please note that while there are no usage fees for domestic use, licensees having online systems and multiple user CD-ROM products must collect the usage data and report it to the NLM. Licensees having CD-ROM products must also report the number of new and renewal subscriptions sold.

- An annual tape license fee is charged for the data being leased. Domestic licensees providing services and/or products in the U.S. pay no other fees to NLM.
- The foreign surcharge remains in effect. This is paid by non-U.S. licensees, domestic licensees for non-U.S. online usage or products sold outside the U.S., and domestic licensees with the data mounted on a computer outside the U.S. It is based on foreign usage at the following rates for those tape licensees who provide either online access or networked CD-ROM products:

\$2.50 per connect hour

\$0.02 per 1,000 characters transmitted online

\$0.02 per citation printed offline

The foreign surcharge for a single user CD-ROM workstation is \$25.00 per year.

See Part 1 of the Pricing Schedule in Appendix A for details on the fees associated with leasing the NLM databases on magnetic tape from NLM.

In addition to these access opportunities, the NLM is continuing to investigate online flat rate options (still experimental) and will implement a discount program aimed at high volume users such as hospitals and academic centers. Questions about these two programs should be addressed to: Ms. Karen Ginter; Manager, MEDLARS Promotion; 8600 Rockville Pike, Bethesda, MD 20894; telephone: 301-496-6217; FAX 301-496-0822; Internet: Karen_Ginter@occhost.nlm.nih.gov

Questions about the MEDLARS Pricing Schedule should be directed to: Mr. Sheldon Kotzin; Chief, Bibliographic Services Division; National Library of Medicine; 8600 Rockville Pike, Bethesda, MD 20894; telephone: 301-496-6217; FAX: 301-496-0822; Internet: kotzin@lhc.nlm.nih.gov

GOLD STANDARD SEARCHES

Thank you to everyone who mailed in search strategies in response to the "Gold Standard Searches" article in the July-August 1992 issue of the Technical Bulletin. This feature offers searchers a chance to match wits with the NLM "experts" on a search strategy formulation. The Gold Standard search strategies are developed here at NLM. The search request published in the July-August issue was:

Is the risk of miscarriage increased by working at a video display terminal?

There were two winners! Our congratulations go to Julie Smith from the St. Joseph Hospital Burlew Library, Orange, CA and to Peggy Edwards of Mercy Medical Center in Denver, CO. Honorable mention goes to Ann Fingar of the Southeast Ohio Library Outreach Network at Ohio University in Athens, OH, who did her search using Grateful Med. The Gold Standard Search strategy is shown in Figure 1 and Julie Smith's strategy is in Figure 2. Peggy Edwards' strategy is in Figure 3 and Ann Fingar's Grateful Med strategy is shown in Figure 4.

ANALYSIS OF THE SEARCH STRATEGIES

The Gold Standard Search and Smith's search were run in MEDLINE; Edwards' search was run in TOXLINE. The Gold Standard Search retrieved 37 relevant citations. Smith's search retrieved 51 citations, but there were 17 false drops. The false drops were primarily the result of combining Computer Systems with Pregnancy which gave many citations about computer diagnosis or testing during pregnancy. Edwards' TOXLINE search retrieved 60 citations, with about 7 false drops for animal studies and some only marginally relevant citations on electromagnetic fields. Also some of the citations within the retrieved set were duplicates even after the MEDLINE citations were eliminated. This is because some of the subfile producers that

contribute to TOXLINE separately index the same journals. The Grateful Med search retrieved 40 citations with about 10 false drops or marginally relevant citations.

TOXLINE VS. MEDLINE

Frequently, one of the most difficult questions to answer is which database to choose. This is because the answer depends on what you are hoping to retrieve and for whom are you doing the search. Searching MEDLINE is relatively simple, MeSH headings are used for all citations and a good retrieval depends primarily on finding and combining the appropriate headings.

TOXLINE on the other hand is a composite file and there is a need to search on Text Words as well as MeSH headings, to ensure a comprehensive retrieval. In a search such as this one, with EXPLODED terms, that means keying as Text Words many of the headings included in the EXPLODE. However, Ms. Edwards did not enter in all possible terms and still received a reasonable retrieval. Another consideration may be the availability of the retrieved citations; some of the unique TOXLINE citations retrieved may not be readily available to you from local sources. However, a TOXLINE search is going to yield additional unique citations and you couldn't consider a search comprehensive without looking at this file. So the answer to which database must rest on how you define the user's needs.

In the interests of saving paper, only the search strategies will be printed, with the exception of a sample title from the TOXLINE search. Ms. Smith and Ms. Edwards will receive their choice of a free copy of Grateful Med or one hour of free search time.

SEARCH STRATEGY SUGGESTIONS

To be comprehensive for this search, it was necessary to explode the MeSH heading PREGNANCY COMPLICATIONS. Most of the strategies submitted missed out on this. Many searches still

obtained seemingly acceptable results (about 20-25 citations of a possible 37-40 citations) using only the terms ABORTION or PREGNANCY OUTCOME or Text Word searching on miscarriage. But if you don't EXPLODE PREGNANCY COMPLICATIONS, you would miss out on terms such as FETAL DEATH, FETAL DISEASES, LABOR PREMATURE and many other relevant headings. In this case, EXPLODing is the most efficient way to search, because it includes the heading ABORTION and saves a lot of time compared to typing and ORing a group of headings and Text Words.

Another suggestion for effective searching - don't search the same term twice. That is, don't key in a term that is already included in an EXPLODE. If you have EXPLODED PREGNANCY COMPLICATIONS, then don't also key in any of the terms indented underneath it. A few minutes spent checking the Tree Structures to see what terms are included in a tree, will save money by reducing unnecessary computer interactions. It seems obvious, but this was a common error in the submitted search strategies.

Once again, thanks to all who submitted entries and thank you for the kind comments about how much you enjoy this feature.

THE TOPIC FOR THE NEXT GOLD STANDARD SEARCH

What are the comparative costs and benefits of disposable vs. reusable diapers in an institutional setting?

Please keep your retrieval to the most recent 50 or fewer citations. Results will be published in the March-April 1993 *Technical Bulletin*. Entries must be received by February 15, 1993 to be considered.

If you mail us a copy of your search strategy with a printout of citations and abstracts and 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 first one to arrive across the editor's desk is the prize winner.

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 using Grateful Med to:

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

YOU ARE NOW CONNECTED TO THE MEDLINE (1989 - 92) FILE.

SS 1 /C?

USER:

exp pregnancy complications or pregnancy

PROG:

SS (1) PSTG (47072)

SS 2 /C?

USER:

(tw) video and display and all terminal# or all vdt:

PROG:

SS (2) PSTG (128)

SS 3 /C?

USER:

computer terminals or 2

PROG:

SS (3) PSTG (213)

SS 4 /C?

USER:

1 and 3

PROG:

SS (4) PSTG (39)

SS 5 /C?

USER:

ts (la) :eng:

- "4 and not for" would be a quick, easy way to also limit the search to English-language citations.

PROG:

SS (5) PSTG (33)

- If you stopped here, this would be a reasonably good search. All the additional terms entered will retrieve only four more citations as shown in the final search statement.

SS 6 /C?

USER:

exp computer systems

PROG:

SS (6) PSTG (5479)

SS 7 /C?

USER:

abnormalities, radiation-induced or exp electromagnetics or

PROG:

CNT 7

Figure 1 - Gold Standard Search in MEDLINE

USER:
 exp occupational diseases or occupational exposure

 PROG:
 SS (7) PSTG (11383)

 SS 8 /C?
 USER:
 6 and 7 and 1

 PROG:
 SS (8) PSTG (31)

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

 PROG:
 SS (9) PSTG (26)

 SS 10 /C?
 USER:
 5 or 9

 PROG:
 SS (10) PSTG (37)

Figure 1 - Gold Standard Search in MEDLINE cont.

YOU ARE NOW CONNECTED TO THE MEDLINE (1989 - 92) FILE.

SS 1 /C?
 USER:
 exp pregnancy complications or pregnancy

 PROG:
 SS (1) PSTG (47072)

 SS 2 /C?
 USER:
 abnormalities (px) or reproduction

- Reproduction is an EXPLODable term although this was not done here.

PROG:
 SS (2) PSTG (29332)

 SS 3 /C?
 USER:
 computer terminals or computer systems or all vdt:

- Computer systems can be EXPLODed.

PROG:
 SS (3) PSTG (1164)

Figure 2 - Julie Smith's Search Strategy in MEDLINE

SS 4 /C?

USER:

electromagnetic fields

PROG:

SS (4) PSTG (864)

SS 5 /C?

USER:

exp occupational diseases or occupational exposure

PROG:

SS (5) PSTG (10227)

SS 6 /C?

USER:

4 and 5

PROG:

SS (6) PSTG (66)

SS 7 /C?

USER:

6 or 3

PROG:

SS (7) PSTG (1215)

SS 8 /C?

USER:

1 and 7 or 2 and 7

PROG:

SS (8) PSTG (64)

SS 9 /C?

USER:

ts (la) :eng:

PROG:

SS (9) PSTG (51)

Figure 2 - Julie Smith's Search Strategy in MEDLINE cont.

YOU ARE NOW CONNECTED TO THE TOXLINE (1981 FORWARD, NON-ROYALTY) FILE.

SS 1 /C?

USER:

(tw) video and display and all terminal# or all vdt:

PROG:

SS (1) PSTG (720)

SS 2 /C?

USER:

(tw) computer and all terminal# or 1

PROG:

SS (2) PSTG (911)

SS 3 /C?

USER:

abortion or miscarriage (tw)

PROG:

SS (3) PSTG (3142)

SS 4 /C?

USER:

2 and 3

PROG:

SS (4) PSTG (85)

SS 5 /C?

USER:

exp electromagnetics and 3

PROG:

SS (5) PSTG (14)

SS 6 /C?

USER:

exp abnormalities and 2

PROG:

SS (6) PSTG (36)

SS 7 /C?

USER:

(tw) pregnancy and occupational and all exposure# and 2

PROG:

SS (7) PSTG (58)

Figure 3 - Peggy Edwards' Search Strategy in TOXLINE

SS 8 /C?

USER:

4 or 5 or 6 or 7

PROG:

SS (8) PSTG (134)

SS 9 /C?

USER:

ts (la) :eng:

PROG:

(88) SCHD (32) QUAL; CONT? (Y/N)

USER:

y

PROG:

SS (9) PSTG (63)

SS 10 /C?

USER:

ts (mh) :human:

PROG:

SS (10) PSTG (53)

Because NLM does not index meeting abstracts for MEDLINE, the following is an additional citation that can be found in TOXLINE.

- TI - THE EFFECTS OF MATERNAL EXPOSURE TO VDT-LIKE MAGNETIC FIELDS THROUGHOUT PREGNANCY ON THE PRENATAL DEVELOPMENT OF CD-1 MICE
- SO - THIRTIETH ANNUAL MEETING OF THE TERATOLOGY SOCIETY, VICTORIA, BRITISH COLUMBIA, CANADA, JUNE 8-12, 1990. TERATOLOGY; 41 (5).1990. 599-600.
- SI - BIOSIS/90/24801

Figure 3 - Peggy Edwards' Search Strategy in TOXLINE cont.

INPUT YOUR SEARCH (1989-1992) MEDLINE		FOUND
FILL IN ONLY THE LINES YOU NEED FOR YOUR SEARCH. PRESS HOME FOR HELP; ESC TO RESTART; F3 TO INCLUDE OLDER MATERIAL.		
AUTHOR NAME	↓ ENTER TITLE WORDS.	
TITLE WORDS	↓ ENTER WORDS, F10 FOR MESH, OR F7 FOR RELEVANT TERMS	
SUBJECT WORDS	Computer Systems (mh) or Computer Terminals (mh)	1144
and	↓ ENTER ALTERNATIVE WORDS FOR NEXT CONCEPT, IF ANY.	
2ND SUBJECT	explode Abortion or Pregnancy (mh) or Pregnancy Outcom	45522
and	↓ ENTER ALTERNATIVE WORDS FOR NEXT CONCEPT, IF ANY.	
3RD SUBJECT		
4TH SUBJECT	↓ ENTER ALTERNATIVE WORDS FOR NEXT CONCEPT, IF ANY.	
ENGLISH ONLY	↓ ENTER ANY CHARACTER TO SE COMBINATION OF THE ABOVE →	51
and	English Only.	48
PUBL TYPE	↓ PRESS F10 FOR LIST OR ANY CHARACTER FOR REVIEWS ONL	
JOURNAL ABBREU	↓ ENTER JOURNAL ABBREVIATION. USE F10 KEY FOR LIST.	

PRESS HOME FOR HELP ON THE FOUND COLUMN

Figure 3 - Ann Finger's Search Strategy Using Grateful Med

MACINTOSH VERSION 1.5 OF GRATEFUL MED UPDATE AND FUTURE RELEASE OF VERSION 2.0

Grateful Med Version 1.5

An update to the Macintosh Version 1.5 of Grateful Med is available. Grateful Med 1.5 users will now be able to search the ALERT database for clinical alerts and also search the BIOETHICSLINE (also called BIOETHICS) database. The next update to the Macintosh version of Grateful Med will be Version 2.0 scheduled for release in early 1993. Some of the new features available with Version 2.0 are highlighted later in this article.

ALERT

Clinical alerts are significant findings from NIH-funded clinical trials where such findings could affect morbidity and mortality. In an effort to help speed up the dissemination of the results from clinical trials, the National Library of Medicine (NLM), in cooperation with the National Institutes of Health, has instituted a clinical alerts feature. As alerts become available, the NLM places them in a special database called ALERT.

BIOETHICS

The BIOETHICS database contains bibliographic citations to documents including journal articles, monographs, newspaper articles, court decisions, bills and laws which discuss ethical and public policy issues in health care or biomedical research. It is produced by the Bioethics Information Retrieval Project at the Kennedy Institute of Ethics, Georgetown University, Washington, DC.

How to Add These to Your Grateful Med Macintosh Version

To search these databases, one file must be downloaded from the Grateful Med BBS (GM-

BBS) and copied into your Grateful Med folder: ALERTBIO.SIT. Instructions for downloading this file are listed below.

1. Once you have started the GM 1.5 program, select DIRECT from the ACTION menu and then select GM-BBS.
2. After connecting to the GM-BBS, quit the BULLETIN menu to get to the MAIN COMMAND menu.
3. From the MAIN COMMAND menu, choose "F" for FILES.
4. From the FILES menu, select "D" for DOWNLOAD.
5. You will be prompted for a file name. Type ALERTBIO.SIT and press Enter.
6. The BBS will then instruct you to "Press F8 or Cmd-L in Grateful Med..." Press Cmd-L.
7. Click on the RECEIVE button and the file will be downloaded.
8. Logoff the BBS and move ALERTBIO.SIT to your Grateful Med folder, if it isn't there already.
9. Double-click on the ALERTBIO.SIT file in your Grateful Med folder. This will start the UnStuffit™ program*. You will see 3 files to extract: DBS, MY SYNONYMS and README (new databases).
10. Click once on DBS and then click once on the Extract button. Save the file called DBS into your Grateful Med folder. You will be prompted with "Replace existing DBS"? Click on Yes.
11. Repeat step 10 with the other 2 files.

*Note: If for some reason the UnStuffit program is not in your Grateful Med folder, it is available on the

Grateful Med 1.5 Master Program Disk 1.

This new README file contains important information for successfully running searches in the ALERT and BIOETHICS files. It is an ASCII text file which can be read by any word processor.

If you prefer to have these files sent to you on a floppy disk, please send a message requesting the new Mac files to MMS on the GM-BBS with your name and address. For Internet users, these files are also available through an anonymous ftp to gmedserv.nlm.nih.gov (130.14.10.55) in the gratefulmac directory.

Grateful Med Version 2.0

The long awaited update to the Macintosh version of Grateful Med is scheduled for release in the summer of 1993. Enhancements to Grateful Med have always been made with two ideas in mind: making it easier for new users and offering more options to veteran Grateful Med searchers. Three of the new features planned for Version 2.0 are described below.

Loansome Doc

Loansome Doc allows you to order full-text articles for citations retrieved in MEDLINE, its BACKFILES, SDILINE, or HEALTH. Loansome Doc provides a valuable link between the Grateful Med user and the user's medical library, and if necessary, the resources of the nation's medical libraries including NLM. The user's library serves as a point of contact for the Regional Medical

Library program. Call 1-800-338-7657 to be automatically routed to your Regional Medical Library to locate a participating Loansome Doc library in your area.

New MeSH Display

A most impressive addition to the MeSH display is the ability to view the narrower (more specific) terms included under any term with a + sign. This allows you to see what terms will be included when you use the + sign with a term (EXPLODE capability).

This feature also helps you find the most specific term for your concept (which is always a good way to search). By browsing down the levels of more specific terms, you can determine if a more accurate term exists and then select it for searching.

Communications

The previous version of Grateful Med, Version 1.5, allows connection to the NLM computer through a local modem or through the use of a shared Shiva NetModem™. With Version 2.0, users will also be able to access the NLM computer through the Internet. If you have a direct connection to the Internet, Grateful Med Version 2.0 will be able to use your existing Internet communications links to connect to the NLM computer.

These new features will give Macintosh users of Grateful Med much of the same flexibility and powerful features that are currently available in the PC version. As always, NLM welcomes your suggestions and comments about Grateful Med.

CANCERFAX AND CANCERNET PROVIDE ADDITIONAL ACCESS TO PDQ STATEMENTS

The National Cancer Institute has two services that make the cancer information statements from PDQ available quickly and easily via fax (CancerFax) or electronic mail (CancerNet).

CancerFax

CancerFax is a quick and easy way to obtain, via fax, selected information from PDQ. All PDQ state-of-the-art treatment statements, patient information statements, and supportive care statements are available through this service. Referral information for the NCI-sponsored trial of tamoxifen for the prevention of breast cancer is also available through CancerFax. In addition, CancerFax lets you request information about PDQ, PDQ distributors, and other products and services from the NCI. All you need is access to a fax machine.

For a list of instructions on how to use CancerFax and the list of available information and its associated retrieval codes, call the CancerFax computer from the phone on your fax machine at:

301-402-5874

and follow the voice prompts. CancerFax operates 24 hours a day, 7 days a week, with no charge other than the telephone call from your fax machine to the CancerFax computer in Bethesda, Maryland.

CancerFax is updated at the beginning of each month to correspond with the changes made in PDQ.

CancerNet

If you have access to Internet, NCI's CancerNet service can bring you the same information found in CancerFax, via electronic mail. You can request the same state-of-the-art statements, patient information statements, and supportive care statements that are available in PDQ, as well as information about PDQ and other products and services available from the NCI.

To use CancerNet, simply send an electronic mail message to:

CANCERNET@ICICB.NCI.NIH.GOV

with a blank subject line and the word HELP in the body of the mail message. CancerNet will send you a return mail message within ten minutes containing the contents list of CancerNet id-numbers.

Once you have the list of id-numbers, you are ready to request information on any of the available topics on the contents list. On subsequent e-mail transmissions, include one id-number per message line for each piece of information desired. CancerNet will return each document in a separate e-mail message, again within ten minutes.

CancerNet operates 24 hours a day, 7 days a week. There is no charge for this service. CancerNet is updated at the beginning of each month to correspond with the changes in PDQ.

MEDLARS: REFRESHER & REVIEW WORKSHOPS JANUARY - MARCH 1993

The following MEDLARS: REFRESHER & REVIEW workshops are scheduled for the first few months of 1993. These workshops cover recent enhancements to the MEDLARS system and are intended for the experienced command language searcher who would like a system "refresher" or "update." A cost recovery fee is charged which varies depending on the training center. Hands-on terminal sessions are not included.

Eastern Online Training Center:

January	15	A.M.	Charleston, SC
	28	A.M.	New York, NY
February	2	A.M.	Farmington, CT
	25	A.M.	Pittsburgh, PA
March	2	A.M.	Buffalo, NY
	29	A.M.	Syracuse, NY

Call the Eastern Online Training Center in New York, NY at 1-800-338-7657 (press #2) for further information or to register for one of the above workshops.

Midlands Online Training Center:

January	14	A.M.	Houston, TX
	21	P.M.	Cleveland, OH
	26	A.M.	Wichita, KS
	28	A.M.	Chicago, IL
February	12	A.M.	Salt Lake City, UT

Call the Midlands Online Training Center in Omaha, NE at 1-800-338-7657 (press #2) for further information or to register for one of the above workshops.

Western Online Training Center:

February	3	A.M.	Anaheim, CA
	17	A.M.	Pasadena, CA
March	2	A.M.	San Diego, CA
	9	A.M.	Santa Barbara, CA

Call the Western Online Training Center in Los Angeles, CA at 1-800-338-7657 (press #2) for further information or to register for one of the above workshops.

CENTER OF EXCELLENCE - SEARCH HINT

Sara Anne Beazley and Anne Carbery Fox
AHA Resource Center, American Hospital Association

In the past this column has focused on efficient and effective ways of searching the Health Planning and Administration (HEALTH) database, produced cooperatively by the National Library of Medicine and the American Hospital Association, for citations to articles on topics for which there were no corresponding MeSH headings. In many instances, these topics eventually generate enough of a body of literature to warrant the creation of new subject headings. This was the case with PRODUCTLINE MANAGEMENT (added in 1988), RELATIVE VALUE SCALES (1990), and ENTREPRENEURSHIP (1992). There are some concepts, however, that are not yet represented adequately in the published literature to meet the requirements established by the National Library of Medicine for adding MeSH terms. This Search Hint focuses attention on one such concept, the **center of excellence**, and how to find information about it in HEALTH and the Hospital Literature Index, (the quarterly index published by the American Hospital Association).

CENTER OF EXCELLENCE - A NEW CONCEPT

The phrase **center of excellence** refers to a medical center that has a highly specialized and sophisticated level of expertise, usually in an area of clinical practice that is technology-intensive, such as organ transplantation, open-heart surgery, or cancer therapy. The underlying principle of a center of excellence is that performing a high volume of even the most complex procedure or treatment has a positive effect on treatment outcome. Thus, a center of excellence creates and nurtures a self-enhancing environment in which the necessary volume of procedures or treatments to achieve favorable outcomes can be attained, and in which

the center's resulting fame as a center of excellence ensures continued volume. Although there are no specific criteria that must be met by a medical center for it to be designated as a center of excellence—and no standards of quality or of utilization—and no directories listing these centers, there is an increasing emphasis on research into indicators of quality. The designation itself can be self-applied by a hospital, or, in some instances, applied by an insurance carrier to a hospital with which the company has contracted for the services provided by that center. This informality contributes to the elusive nature of the literature and to the consequent difficulty in locating information about centers of excellence.

However, with the growing emphasis on outcome assessment as a measure of quality of health care and the hospital's increasing need to compete with other health care providers for patients, it is readily apparent how a hospital's status as a center of excellence could be a strategic factor in attracting physician referral and consumer self-referral, within the surrounding local or state area, as well as nationally and internationally. The designation can also be used to attract revenue-generating contractual arrangements with insurance companies or managed care programs to provide specific services in a cost-effective manner based on volume and expertise. Thus, the literature on this topic has become of vital interest to hospital administrators and planners.

FORMULATING A SEARCH STRATEGY

How can the online searcher zero in on the scarce literature about these "designated hitters" of health care provision? The HEALTH database is the logical database in which to execute a search, because the concept of a center of excellence is most often discussed in the context of delivering a particularly high-quality hospital service and its subsequent marketing, rather than in the context of the clinical procedures or treatments themselves. As is true with many elusive concepts, there are alternative terminologies used to refer to this concept—centers or institutions of excellence, magnet hospitals,

institutes of quality—and there is no one set of indexing terms that can be used to pull all of the relevant citations together. Also, to EXPLODE the most likely sets of terms would quickly result in a storage overflow.

The most effective approach is to search HEALTH with Text Words for co-occurrences of **excellence** and variant spellings of **center**, followed by a sentence STRINGSEARCH (sensearch) to narrow the retrieval to those articles in which **center** and

excellence appear within the same sentence. This strategy, as shown in Figure 1, yields a relevant subset of 62, which may subsequently be analyzed to determine other relevant Text Words or to discover the MeSH headings to which these articles are most frequently indexed. For an exhaustive search, these MeSH headings can then be used to find additional citations, although articles retrieved in this manner should be scanned carefully, because many will be irrelevant due to the elusive nature of the topic and the consequent indexing variation.

```

SS 1 /C?
USER:
file health

PROG:
YOU ARE NOW CONNECTED TO THE HEALTH PLANNING & ADMIN (1975 FORWARD)
FILE.

SS 1 /C?
USER:
(tw) center or centers or centre or centres      • -OR- (TW) all center# or all centre#

PROG:
SS (1) PSTG (26905)

SS 2 /C?
USER:
1 and excellence (tw)

PROG:
SS (2) PSTG (93)

SS 3 /C?
USER:
sens (ti) :center:excellence: or :center:excellence: (ab) or

PROG:
CNT 3

USER:
:centre:excellence: (ti) or :centre:excellence: (ab)

PROG:
SS (3) PSTG (62)

```

Sample Titles Retrieved:

Roundtable discussion on metabolic support of the cancer patient. Regional centers of excellence.
 Cancer: #1 center of excellence for the 21st century.
 King's Fund: building centres of excellence.
 Centers of excellence. future trends for key inpatient service lines.
 Urology and kidney care: centers of excellence for the "age wave".
 Creating a center of excellence: education and service collaborate.

Figure 1 - Using SENSEARCH (SENS) in File HEALTH

SEARCH STRATEGIES FOR ALTERNATE TERMS

Text Words for the alternate terminologies that express the concept of centers of excellence can also be searched. Figure 2 shows the strategy for retrieving articles on the program of hospital excellence, Institutes of Quality, established by the Prudential Insurance Company. Figure 3 shows

how to search magnet hospitals, which retrieves 17 additional citations having special relevance for excellence in nursing. Figure 4 demonstrates how to conduct a more exhaustive search by expanding the strategy into the area of quality indicators, which are indicators of the quality of care and hospital excellence, by searching a combination of main headings and Text Words. This retrieves 133 additional citations, 88 of which are relevant.

SS 4 /C?

USER:

(tw) institutes and prudential

PROG:

SS (4) PSTG (2)

SS 5 /C?

USER:

prt au, ti, so

PROG:

1

AU - Dragalin D ; Perkins D ; Plocher DW

TI - Institutes of Quality: Prudential's approach to outcomes management for specialty procedures.

SO - QRB Qual Rev Bull 1990 Mar;16(3):111-5

2

AU - Koska MT

TI - Institutes of Quality experience uneven volume.

SO - Hospitals 1990 Feb 5;64(3):44, 46-8

- Prudential (tw) appears in the abstract (not printed to conserve paper).

Figure 2 - Searching HEALTH for the Prudential Insurance Company's Institutes of Quality

SS 5 /C?

USER:

(tw) magnet

PROG:

SS (5) PSTG (62)

SS 6 /C?

USER:

ts (ti) :magnet#hospital: or :magnet#hospital: (ab)

PROG:

SS (6) PSTG (21)

Sample Titles Retrieved:

The magnet hospitals. Excellence revisited.

Trends to watch at the magnet hospitals.

Magnet hospitals: Part I: Institutions of excellence.

Magnet hospitals: Part II: Institutions of excellence.

Figure 3 - Searching HEALTH for the Concept Magnet Hospitals

```

SS 7 /C?
USER:
exp quality of health care and all indicator: (tw)

PROG:
SS (7) PSTG (593)

SS 8 /C?
USER:
sens (ti) :quality:indicator: or :quality:indicator: (ab) or

PROG:
CNT 8

USER:
:clinical:indicator: (ti) or :clinical:indicator: (ab)

PROG:
SS (8) PSTG (133)

```

Figure 4 - Searching HEALTH for the Concept Quality Indicators

One other important set of citations can be obtained by executing the search illustrated in Figure 5. The articles retrieved by this search are the results of annual surveys begun in 1990 by researchers at US News and World Report. The studies are an attempt to identify hospitals or hospital departments considered by physicians in various medical specialties to be the best in their particular areas of

expertise. Although not necessarily referred to as centers of excellence, either in the titles, abstracts, or bodies of these articles, the facilities discussed fit the profile of a center of excellence, and the description of the methodology used to identify them sheds some light on what physicians perceive to be the benchmarks of excellence in a hospital.

```

SS 9 /C?
USER:
exp *hosp and *quality of health care and US News World Rep (ta)

PROG:
SS (9) PSTG (6)

SS 10 /C?
USER:
prt ti

PROG:
1
TI - 1991 best hospitals. A guide to the best.
2
TI - The best hospitals, from AIDS to urology.
3
TI - America's best hospitals.
4
TI - America's best hospitals. Exclusive survey.
5
TI - Portrait of a hospital. Boston's Massachusetts General.
6
TI - The local alternatives. Why head out of town when a good community hospital will do?

```

Figure 5 - Finding Articles in HEALTH from US News and World Report on Centers of Excellence

SEARCHING HOSPITAL LITERATURE INDEX FOR CENTERS OF EXCELLENCE

If the search for information on centers of excellence is being done using the Hospital Literature Index, the most productive strategy is to scan titles for variant occurrences of **excellence**, **niches**, **quality indicators**, or **outcomes assessment**, that would indicate the articles concerning hospitals with high standards of care or high rates of technology-intensive service, under the following subject headings:

HOSPITALS, SPECIAL
 OUTCOME ASSESSMENT (HEALTH CARE)
 PATIENT SATISFACTION
 PRODUCT LINE MANAGEMENT
 QUALITY ASSURANCE, HEALTH CARE
 QUALITY OF HEALTH CARE
 SPECIALTIES, MEDICAL

For example, a search of Hospital Literature Index, volume 48, number 1, first quarter 1992, under **PRODUCT LINE MANAGEMENT**, lists:

L.A. acute-care facility switches to niches [published erratum appears in *Mod Healthc* 1991 Dec 2;21(48):27] Taravella S. *Mod Healthc* 1991 Nov 11;21(45):48

Orthopedics offers hospitals niche opportunities in clinical areas. Scheuerman J. *Hospitals* 1992 Jan 5;66(1):46-7

Under **QUALITY ASSURANCE, HEALTH CARE**, these additional relevant citations are listed:

Children's hospitals: specialty hospitals that treat children specially. Siebecker KL. *Hosp Mater Manage Q* 1991 Nov;13(2):27-31

Importing a model of hospital quality from the Netherlands. Kabcenell AI, et al. *Health Aff (Millwood)* 1991 Fall;10(3):240-5

Development and application of clinical indicators for nursing. Williams AD. *J Nurs Care Qual* 1991 Oct;6(1):1-5

Integrating research activities, practice changes, and monitoring and evaluation: a model for academic health centers. Jones L, et al. *QRB Qual Rev Bull* 1991 Jul;17(7):229-35

The outcome index and system outcome score: a method of quality assurance through outcome analysis in the special care area [see comments] Gilbert J, et al. *Int J Clin Monit Comput* 1991;8(2):85-94. Comment in: *Int J Clin Monit Comput* 1991;8(2):83-4

CONCLUSION

Centers of excellence have been on the health care scene for a number of years. Clinical expertise and acquisition of the latest technology, the hallmarks of such centers, are not overnight phenomena, but evolve with careful planning over long periods of time. However, like their equally elusive cousin, the tertiary care facility, it is difficult to retrieve information describing the inner workings and administration of such centers. As interest in them continues to grow, encouraged by developing patterns of health insurance reimbursement and the need felt by medical centers to distinguish and market themselves as unique entities, the **HEALTH** database and the Hospital Literature Index will continue to be the most easily accessible and comprehensive bibliographic resources for locating information on centers of excellence.

YEAR-END PROCESSING OF SERIAL BIBLIOGRAPHIC DATA IN MEDLINE CITATIONS

Four data elements are involved in Year-End Processing of serial journal bibliographic data in MEDLINE, it's Backfiles, and HEALTH citations:

Title Abbreviation (TA)
Journal Title Code (JC)
International Standard Serial Number, ISSN (IS)
Tree Number for Country of Publication (ZN).

Although updates are made to these data elements in SERLINE as needed throughout the year, maintenance to the corresponding data elements in most MEDLINE, Backfile, and HEALTH citations must wait until Year-End Processing changes made by NLM in these databases.

Usually, only one of these four data elements is changed in each citation, but some citations require maintenance to more than one data element. Most changes fall into one of the categories discussed below.

The list of changes that were made during 1992 Year-End Processing by category are available upon request from the MEDLARS Management Section (MMS). This rather lengthy list has been previously published as part of the *Technical Bulletin*; however in the interest of conserving resources we will be distributing it only to those people who actually want this particular information. Please write or FAX your request to:

Year-End Processing Serials Changes
MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894
FAX: 301-496-0822

TITLE ABBREVIATION (TA) CHANGES

1. Abbreviations that did not reflect the full title were revised.
2. Unwarranted brackets [] that appeared around parts of some abbreviations were removed.
3. Typographical errors were corrected.

ISSN (IS) CHANGES

Citations for approximately 150 titles in the MEDLINE Backfiles and HEALTH that either had no ISSN or an ISSN that did not match the ISSN in SERLINE were maintained. NLM will continue to maintain the ISSN field in the Backfiles and HEALTH as staff time permits during future Year-End Processing cycles.

In the list of ISSN changes, a blank following "OLD ISSN" indicates that previously no ISSN was present in some or all of the citations for the indicated title. The corresponding ISSN has been identified and added during Year-End Processing. A blank following "NEW ISSN" indicates that an old incorrect ISSN is being deleted and no new ISSN has been assigned yet.

JOURNAL TITLE CODE (JC) CHANGES

Journal Title Codes (JCs) are usually changed because an independent supplement was incorrectly cited as the main title or a title change occurred after the first issue of the new title was indexed.

TREE NUMBER FOR COUNTRY OF PUBLICATION (ZN) CHANGES

When the Country of Publication (CY) for a serial title changes because the publisher has changed or relocated, the tree number (ZN) is also changed in SERLINE. A note is added to the General Notes (GN) field in SERLINE explaining when the imprint change took place. The ZN for the new place of publication will appear only in MEDLINE citations beginning with the first issue with the new imprint. The changes to the ZN that occur during Year-End Processing are for those citations that were tagged with incorrect ZNs because issues with the new imprint were indexed before the ZN was changed in SERLINE. [Editors Note: The tree number (ZN) field for 1993 has special implications this year for various databases.

- SERLINE will use 1993 CY (country) names, but 1992 ZN numbers
- MEDLINE and other NLM-indexed databases will use 1992 ZN number (see September-October 1992 *Technical Bulletin*, p. 13-14)
- CATLINE/AVLINE will delete all ZN numbers (see p. 30 of this issue)]

NEW NUMBER INDEX IN AVLINE, CATLINE, SERLINE

A new searchable Number Index (NX) field was made available in September 1992, to allow the retrieval of special types of numbers in the AVLINE, CATLINE, and SERLINE databases. This new Number Index (NX) was created primarily to enhance retrieval in the online public access catalog being developed at NLM. No changes have been made to the existing data or other searchable fields in the CATLINE, AVLINE, or SERLINE databases; the Number Index search feature is an added capability.

SERLINE

IS - International Standard Serial Number
CA - Call Number
UI - Unique Identifier

In the Number Index, numeric values from the above fields are stripped of spaces, hyphens and other punctuation. For example, the call number "W1 SP295G V.13 1985" is indexed and searched as W1SP295GV131985. Additional processing for volume and issue information extracted from the Series Title statements is illustrated in the examples below.

CONTENTS OF THE NUMBER INDEX

AVLINE & CATLINE

IS - International Standard Serial Number
CA - Call Number (for items held at NLM)
BN - International Standard Book Number
LC - LC Control Number
SDC - Superintendent of Documents Classification Number
SE - Series Title (volume/issue number only)
PE - Personal Name/Series Title (volume/issue number only)
CE - Corporate Name/Series Title (volume/issue number only)

SEARCHING USING THE NUMBER INDEX

To search explicitly in the Number Index, the user must use a compressed search string qualified by the mnemonic (NX). The following examples shown in Figures 1 and 2 illustrate possible search strategies using the Number Index (NX).

```

SS 1 /C?
USER:
file cat

PROG:
YOU ARE NOW CONNECTED TO THE CATLINE FILE.

SS 1 /C?
USER:
0891544208 (nx)          • Retrieves the citation for ISBN 0-89154-420-8

PROG:
SS (1) PSTG (1)

```

Figure 1 - Search Strategies in CATLINE Using the Number Index (NX) Field

SS 2 /C?

USER:

prt lo include bn

- Prt lo means display Loan format fields. See page 15 of the July-August 1992 *Technical Bulletin*

PROG:

1

- TI - Glossary of health care terms/N
- AS - / compiled by the 1990 Health Care Services Committee of the International Foundation of Employee Benefit Plans ; edited by Bernard Handel.
- ED - 2nd ed.
- IM - Brookfield, WI :/International Foundation of Employee BenefitPlans : Obtain from Publications Dept., International Foundation of Employee Benefit Plans,/1991.
- CO - x, 37 p.
- CA - W 13 G563 1991:02NLM
- UI - 9210150
- BN - ISBN 0-89154-420-8 : 10.00 (8.00 for foundation members).

SS 2 /C?

USER:

8915895 (nx)

- Retrieves the citation for LC Number 89-15895

PROG:

SS (2) PSTG (1)

SS 3 /C?

USER:

prt include lc

PROG:

1

- PN - Tijssen, P.////
- TI - CRC handbook of parvoviruses/N
- TI - Handbook of parvoviruses/N
- AS - / editor, Peter Tijssen.
- IM - Boca Raton, Fla. :/CRC Press,/c1990.
- CO - 2 v. :ill.
- CA - QW 165 C911 1990:02NLM
- EL - FULL LEVEL
- IT - BOOK IN PARTS
- MT - TITLE MAIN ENTRY
- DA - 890615
- UI - 8910637
- LC - 89-15895

SS 3 /C?

USER:

wp17a163a1963 (nx)

PROG:

SS (3) PSTG (1)

- Retrieves the citation for the monograph with the call number of WP 17 A163a 1963.

Figure 1 - Search Strategies in CATLINE Using the Number Index (NX) Field cont.

```

SS 4 /C?
USER:
prt

PROG:

1
PN - Abramova, Mariia Mikha:ilovna
TI - Atlas gisterosal'pingografii./G
IM - //1963.
CO - 124 p.:ill.
CA - WP 17 A163a 1963:02NLM
EL - RETROSPECTIVE
ST - N
IT - MONOGRAPH
MT - PERSONAL NAME MAIN ENTRY
DA - 810920
UI - 47010020R
    
```

Figure 1 - Search Strategies in CATLINE Using the Number Index (NX) Field cont.

```

USER:
file serline

PROG:
YOU ARE NOW CONNECTED TO THE SERLINE FILE.

SS 1 /C?
USER:
w1jo868s (nx)

PROG:
SS (1) PSTG (1)
    
```

- Retrieves the citation for the journal (in SERLINE) with the call number of **W1 JO868S**.

```

SS 2 /C?
USER:
prt

PROG:

1
TI - JOURNAL OF REPRODUCTIVE MEDICINE
FL - 2,1969—
PL - CHICAGO, IL
GN - CONTINUES LYING-IN. CALLED ALSO LYING-IN, JAN.-JUNE 1969. COVER TITLE: THE
      JOURNAL OF REPRODUCTIVE MEDICINE FOR THE OBSTETRICIAN AND GYNECOLOGIST,
      JULY 1970- . PAGINATION FOR LETTERS TO THE EDITOR NUMBERED INDEPENDENTLY.
      FROM 1969 TO 1980 PUBLISHED IN TWO VOLUMES A YEAR, EACH VOLUME OF SIX ISSUES;
      BEGINING 1981 PUBLISHED IN ONE VOLUME A YEAR WITH TWELVE ISSUES.

AT - LYING-IN
AT - JOURNAL OF REPRODUCTIVE MEDICINE FOR THE OBSTETRICIAN AND
      GYNECOLOGIST
AT - REPRODUCTIVE MEDICINE
IS - 0024-7758
CA - W1 JO868S
UI - J37040000
    
```

Figure 2 - Search Strategy in SERLINE Using the Number Index (NX) Field

USING THE NEIGHBOR (NBR) COMMAND TO VIEW NUMBER INDEX ENTRIES

Number Index (NX) values do not display as part of the unit record in any of the print formats. However,

you can use the NEIGHBOR command to see Number Index (NX) values as shown in Figure 3.

```

SS 1 /C?
USER:
file cat

PROG:
YOU ARE NOW CONNECTED TO THE CATLINE FILE.

SS 1 /C?
USER:
nbr 8915895

PROG:

SELECT # POSTINGS TERM
  1      1      8915893 (UI)
  2      1      8915894 (UI)
  3      1      8915895 (UI)
  4      1      8915895 (NX)
  5      1      8915896 (UI)
UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:
sel 3-4

PROG:
SS (2) PSTG (2)

SS 3 /C?
USER:
prt ui, ti, lc

PROG:

1
UI - 8915895
TI - Ultra-high molecular weight polyethylene as biomaterial in orthopedic surgery/N
TI - Polyethylene/
LC - 89-24609

2
UI - 8910637
TI - CRC handbook of parvoviruses/N
TI - Handbook of parvoviruses/N
LC - 89-15895
    
```

- Even though the numbers are the same in the UI field and the NX field, they represent two different items.

- In the first item the number is the Unique Identifier, in the second item the 8915895 (nx) shows up in the LC Card Number (LC) field. See Figure 1 for more complete display of the second item.

Figure 3 - Number Index (NX) Terms Displayed with the Neighbor Command

SEARCHING FOR VOLUME/ISSUE NUMBERS IN CATLINE AND AVLINE

For numeric data extracted from the volume/issue subelement of series statements in AVLINE and CATLINE, the letters A-Z are also removed. Index entries are created from each separate numeric value as well as from the complete string of numbers. For example, "v. 28, no. 1" and "no. 28-1" are both searchable as 281 (NX).

SEARCHING FOR A SPECIFIC SERIES TITLE AND VOLUME/ISSUE

It is generally more useful to use the Number Index (NX) in combination with other search terms when searching series title statements. The strategy shown in Figure 4 retrieves all citations for volume 28 of the series, Dental Clinics of North America.

SS 1 /C?

USER:
file cat

PROG:
YOU ARE NOW CONNECTED TO THE CATLINE FILE.

SS 1 /C?

USER:
dental clinics of north america: (se) and 28 (nx)

PROG:
MM (DENTAL CLINICS OF NORTH AMERICA:) (32)
ALL OR NONE?

USER:
all

PROG:
SS (1) PSTG (2)

SS 2 /C?

USER:
prt

PROG:

1

PN - Winkler, Sheldon/////

PN - Applebaum, Marc/////

TI - Symposium on removable prosthodontics/N

TI - Removable prosthodontics/

AS - / Sheldon Winkler and Marc Applebaum, guest editors.

IM - Philadelphia :/Saunders,/c1984.

CO - vi p., p. 209-385 :ill., ports.

SE - **Dental clinics of North America, ISSN 0011-8532 ;/v. 28, no. 2 (Apr. 1984)/N**

SE - **Dental clinics of North America ;/v. 28, no. 2/**

CA - W1 DE184 v.28 no.2 1984:02NLM

CA - [WU 515 S9892 1984]:0XNLM

EL - FULL LEVEL

IT - ANALYTIC

MT - TITLE MAIN ENTRY

DA - 850214

UI - 8501516

U2 - B09292

Figure 4 - Retrieving Volume/Series Citations for Dental Clinics of North America

2
PN - Spedding, Robert H./////
TI - Symposium on pedodontics/N
TI - Pedodontics/
AS - / Robert H. Spedding, guest editor.
IM - Philadelphia :/Saunders,/c1984.
CO - vi, 207 p. :ill., port.
SE - **Dental clinics of North America, ISSN 0011-8532 ;/v. 28, no. 1 (Jan. 1984)/N**
SE - **Dental clinics of North America ;/v. 28, no. 1/**
CA - W1 DE184 v.28 no.1 1984:02NLM
CA - [WU 480 S9893 1984]:0XNLM
EL - FULL LEVEL
IT - ANALYTIC
MT - TITLE MAIN ENTRY
DA - 841004
UI - 8411184
U2 - B01007

Figure 4 - Retrieving Volume/Series Citations for Dental Clinics of North America cont.

REGENERATION OF CATLINE, AVLINE

The regeneration of the CATLINE and AVLINE databases in December 1992 involves changes in some data values, indexing, and print formats as described below in Section I. Two data element changes are of particular interest to online users: 1) NLM is implementing changes in the coding of CIP citations, including a new element, the Availability Note (AVN); and 2) a new element, the Monthly Proof Pull (MP), has been added to assist the user in identifying new citations which were formerly published on a weekly basis. These changes are highlighted in Sections II & III below.

Changes specific to AVLINE only are described in Section IV.

All the changes documented in this article should appear online on December 14, 1992 if the Year-End Processing goes according to schedule.

I. DATA, INDEXING, AND PRINT FORMAT CHANGES [CATLINE, AVLINE]

A. MeSH Heading (MH) changes

Changes were made to MeSH Headings (MH) in CATLINE and AVLINE records corresponding to the changes made in 1993 MeSH. Included in this class maintenance are changes to MeSH descriptors which were geographic subject headings for the former Soviet Republics and Burma.

[Note: Geographic main headings from Category Z are not used as printed subject headings in cataloging. Instead, geographic subheadings are added to main headings when appropriate. Nonprint geographic main headings do appear in CATLINE and AVLINE to facilitate online retrieval].

B. Country of Publication (CY) and Tree Number (ZN) changes

The user should note that Country of Publication (CY) values for new records added to CATLINE and AVLINE after December 3 reflect the new 1993 MeSH terms for geographic names, including the new headings for the former Soviet Republics. Data in the Country of Publication (CY) field in retrospective bibliographic records are not being changed.

In anticipation of planned changes to MEDLINE and other NLM databases in 1994, the Tree Number (ZN) field has been removed from all CATLINE and AVLINE records. Formerly, tree number(s) from the MeSH Z1 Geographic tree corresponding to the CY (Country of Publication) were stored in the ZN element. The CY term used in cataloging records will continue to be selected from the MeSH vocabulary.

[Editor's Note: The decision to delete all Tree Numbers (ZN) in CATLINE and AVLINE was made after the September- October issue of this publication went to press; this information thus supersedes the announcement in that issue on page 14 that 1992 ZN values would be retained in old CATLINE and AVLINE records.]

- C. A new element, Availability Note (AVN), has been established (c.f. Section II below).
- D. A new element, Monthly Proof Pull (MP), has been established (c.f. Section III below).
- E. The element Issue-Part (IP) used by internal processing for the production of the monthly index to the NLM Proof Sheets has been deleted from all CATLINE and AVLINE records.
- F. The Contents Note (CT) has been made searchable by Text Words to allow better access to works-in-part.
- G. The Encoding Level (EL) element has been added to the following print formats:

CATLINE:	PRT LO, PRT AC
AVLINE:	PRT LO

II. CATALOGING IN PUBLICATION (CIP) CITATIONS [CATLINE, AVLINE]

Minor changes in the identification of CIP items at NLM have been undertaken to provide users with a catalog record that contains bibliographic data which can be used by a library with minimal change and to eliminate unnecessary steps in the preparation of NLM's Revised CIP records. (See Figure 1 for an example of a CIP record.)

- The General Note, "Cataloging in publication." no longer appears in NLM CIP records.
- Bibliographic records in CATLINE and AVLINE encoded at the CIP level continue to be identified by the value "8" in the Encoding Level (EL) field. This field is decoded in the online display as "CIP"—no change from the current practice.
- A newly-defined element, the **Availability Note (AVN)** with text "NOT YET AVAILABLE" alerts the online user to the fact that the item is not yet in the NLM collection. This note appears in all online print displays, positioned after the Call Number (CA) field; it does not print in publications and is not included on USMARC tapes distributed by NLM.
- The call number in CIP records no longer is followed by the character string "(P)" to indicate a preliminary call number; CIP items will be given a fully shelved call number, including the date, when they are initially cataloged.

```

USER:
prt fu

PROG:

1
MH - Laparoscopy/*//
KW - 20C
PN - Hulka, Jaroslav F.////
PN - Reich, Harry/////
TI - Textbook of laparoscopy/G
AS - / Jaroslav F. Hulka, Harry Reich.
ED - 2nd ed.
IM - Philadelphia :Saunders,/c1993.
BI - Includes bibliographical references and index.
BN - ISBN 0-7216-3643-8.
CA - WP 141 H912t 1993:02NLM
AVN - NOT YET AVAILABLE
LP - Eng
EL - CIP
IT - MONOGRAPH
MT - PERSONAL NAME MAIN ENTRY
DA - 921015
UI - 9215234
U2 - 0055000

```

Figure 1 - Example of a CIP Record

Records for CIP items that NLM has decided not to acquire for the NLM collection do not contain the Availability Note (AVN) field. Such bibliographic records continue to contain the text "Not Acquired"

in the call number field identified by the Library Symbol "02NLM". A suggested call number can be found in the call number field identified by the Library Symbol "WDNLM".

III. NEW ELEMENT MONTHLY PROOF PULL (MP) [CATLINE, AVLINE]

A new searchable element Monthly Proof Pull (MP) has been established to flag current, English language, and Revised CIP records added or upgraded in CATLINE and AVLINE. The Monthly Proof Pull (MP) field identifies bibliographic records that meet selection criteria equivalent to those formerly used to include records in the NLM Current Catalog Proof Sheets.

- The new MP field has the form YYMM, where the year and month indicate the date when the new or maintained record was loaded into CATLINE or AVLINE. CIP records, English language records published in the current year and two preceding years, and published Revised CIP records contain the MP field.
- To retrieve CIP records, Revised CIP records, and current English language records included in the databases during January 1993 enter the year and month as shown below.

EXAMPLE:

USER:
9301 (mp)

- Users should note that the value in the Monthly Proof Pull (MP) field gives the actual year and month that the new or maintained citation was loaded into CATLINE or AVLINE.
- New and maintained CATLINE and AVLINE records are made available to users in the network files on a weekly schedule. New and revised citations are generally made available to the public when the system is brought up on Friday morning. The user may consult the online "NEWS" for specific information on the weekly updates.
- By combining the Monthly Proof Pull (MP) field with the Date of Entry (DA), users can

retrieve the bibliographic records added to CATLINE and AVLINE for that week. (Note: Only one Date of Entry (DA) value is assigned to all records added in a week.)

EXAMPLE:

USER:
9301 (mp) and 930114 (da)

- Revised CIP records are best searched on a monthly basis by combining the Monthly Proof Pull (MP) field with the Revision Indicator (RI) field.

EXAMPLE:

USER:
9301 (mp) and rev. cip (ri)

IV. CHANGES TO DATA VALUES [AVLINE]

- The Media Description (MD) value "IBM PERSONAL COMPUTER PS/2" has been maintained to "IBM PERSONAL SYSTEM/2 (COMPUTER SYSTEM)."
- The Procurement Source (PC) and Price (PR) value "A.W. Calhoun Medical Library" has been maintained to "Emory Medical Television Network."
- The Shelving Location (SL) field for audiovisuals and software produced prior to 1990 has been maintained for items that have been relocated from the Learning Resource Center to the General Collection at NLM.
- For serial citations in AVLINE, the Other File's Unique Identifier (U2) has been maintained to match the Unique Identifier (UI) of the corresponding serial citation in the SERLINE database.

SERIALS UPDATE

INDEXED TITLES UPDATED, SEPTEMBER-OCTOBER 1992

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

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

TITLES SELECTED FOR INDEXING, SEPTEMBER-OCTOBER 1992

IM ARCHIVES OF VIROLOGY. SUPPLEMENTUM
 ARCH VIROL SUPPL
 1,1991—
 SPRINGER VERLAG
 WIEN AUSTRIA
 SUPPLEMENT TO: ARCHIVES OF VIROLOGY.
 INDEXING BEGAN WITH N1,1991.
 W1 AR49LA 0939-1983
 SR0075132 JC: BLI

IDL AUSTRALIAN DENTAL PRACTICE
 AUST DENT PRACT
 1N1,MAR/APR 1990—
 PRO PR PUBLICATIONS
 MILSONS POINT NSW AUSTRALIA
 RUNNING TITLE: DENTAL PRACTICE.
 CONTINUES: DENTAL REPORTER.
 INDEXING BEGAN WITH V3N1,1992.
 W1 AU239
 SR0071262 JC: BLE

INI BIRTH GAZETTE
 BIRTH GAZ
 3N1,1986—
 RELIGIOUS AND EDUCATIONAL FUND
 SUMMERTOWN TN UNITED STATES
 CONTINUES: PRACTICING MIDWIFE, WHICH IS
 NOT IN THE NLM COLLECTION.
 INDEXING BEGAN WITH V8N1,1992.
 ON ORDER 0890-3255
 SR0063175 JC: BL4

IM CANADIAN FAMILY PHYSICIAN. MEDECIN DE
 FAMILLE CANADIEN
 CAN FAM PHYSICIAN MED FAM CAN
 13N7,JUL 1967—
 COLLEGE OF FAMILY PHYSICIANS OF CANADA
 WILLIOWDALE, ONT. CANADA
 OFFICIAL PUBLICATION OF THE COLLEGE OF
 GENERAL PRACTICE OF CANADA, JULY 1967-MAY 1968;

OF THE COLLEGE OF FAMILY PHYSICIANS
 OF CANADA, JUNE 1968- .
 CONTINUES: JOURNAL - COLLEGE OF GENERAL
 PRACTICE OF CANADA.
 INDEXING BEGAN WITH V39N1,JAN 1993.
 W1 CA553P 0008-350X
 C03640000 JC: BLO

IDL DENTAL WORLD
 DENT WORLD
 N1,JAN/FEB 1992—
 FDI WORLD DENTAL PRESS
 LONDON ENGLAND
 OTHER TITLE: FDI DENTAL WORLD.
 CONTINUES: FDI NEWS.
 INDEXING BEGAN WITH N3,1992.
 W1 DE349MD 0965-9986
 SR0073236 JC: BLF

INI NEONATAL PHARMACOLOGY QUARTERLY
 NEONATAL PHARMACOL Q
 1N1,JUL 1992—
 NEONATAL NETWORK
 PETALUMA CA UNITED STATES
 INDEXING BEGAN WITH V1N2,1992.
 IN PROCESS 1056-8956
 SR0072541 JC: BL3

INI SEIROKA KANGO DAIGAKU KIYO
 SEIROKA KANGO DAIGAKU KIYO
 1,1975?—
 DO DAIGAKU
 TOKYO-TO JAPAN
 ADDED TITLE PAGE TITLE: BULLETIN OF ST.
 LUKES COLLEGE OF NURSING.
 INDEXING BEGAN WITH V18,1992.
 W1 SE249JF 0289-2863
 SR0074840 JC: BKO

TITLES SELECTED FOR INDEXING, SEPTEMBER-OCTOBER 1992

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>HLI STRATEGIES FOR HEALTHCARE EXCELLENCE
STRATEG HEALTHC EXCELL
19??—
COR RESEARCH
SANTA BARBARA CA UNITED STATES
CONTINUES: HEALTHCARE PRODUCTIVITY
REPORT, WHICH IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V5N1, JAN 1992.
ON ORDER 1058-7829
SR0073864 JC: BLJ
STRATEGIES FOR HEALTHCARE EXCELLENCE,
P.O. BOX 40959, SANTA BARBARA CA 93140-0959</p> | <p>IM TEXAS HEART INSTITUTE JOURNAL
TEX HEART INST J
9N1, MAR 1982—
TEXAS HEART INSTITUTE, CARDIOVASCULAR
SURGICAL RESEARCH LABORATORIES
HOUSTON TX UNITED STATES
CONTINUES: CARDIOVASCULAR DISEASES.
INDEXING BEGAN WITH V20N1, 1993.
W1 TE778 0730-2347
T06750000 JC: BLN
TEXAS HEART INSTITUTE, P.O. BOX 20345,
HOUSTON TX 77225-0345</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

TITLE CHANGES, SEPTEMBER-OCTOBER 1992

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>IM AMERICAN JOURNAL OF MEDICAL QUALITY
HLI AM J MED QUAL
7N3, FALL 1992—
WILLIAMS AND WILKINS
BALTIMORE MD UNITED STATES
CONTINUES: QUALITY ASSURANCE AND
UTILIZATION REVIEW.
INDEXING FOR BOTH HLI AND IM BEGAN WITH
V7N3, 1992.
ON ORDER 1062-8606
SR0075340 JC: BL2</p> | <p>IM EUROPEAN ARCHIVES OF OTO-RHINO-
LARYNGOLOGY. SUPPLEMENT
EUR ARCH OTORHINOLARYNGOL SUPPL
1, 1992—
SPRINGER VERLAG
BERLIN GERMANY
SUPPLEMENT TO: EUROPEAN ARCHIVES OF
OTO-RHINO-LARYNGOLOGY.
CONTINUES: ARCHIVES OF OTO-RHINO-
LARYNGOLOGY. SUPPLEMENT.
INDEXING BEGAN WITH V1, 1992.
W1 EU612FEA 0934-2400
SR0074918 JC: BK5</p> |
| <p>HLI CONTRACT DESIGN
CONTRACT DES
32N10, OCT 1990—
GRALLA PUBLICATIONS
NEW YORK NY UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
CONTINUES: CONTRACT, WHICH IS NOT IN THE
NLM COLLECTION.
INDEXING BEGAN WITH V32N10, OCT 1990.
AHA 1053-5632
SR0075164 JC: BLK</p> | <p>HLI HEALTH MATRIX
HEALTH MATRIX
1N1, SPRING 1991—
CASE WESTERN RESERVE UNIVERSITY SCHOOL
OF LAW
CLEVELAND OH UNITED STATES
CONTINUES: HEALTH MATRIX.
INDEXING BEGAN WITH V1N1, SPRING 1991.
ON ORDER
SR0075022 JC: BLD</p> |
| <p>IDL ENDO
ENDO
11N2, JUN 1992—
GROUPE CDP
PARIS FRANCE
CONTINUES: REVUE FRANCAISE D ENDODONTIE.
INDEXING BEGAN WITH V11N2, 1992.
W1 EN362 0294-1813
SR0074915 JC: BK2</p> | <p>IM JOURNAL OF AOAC INTERNATIONAL
J AOAC INT
75N1, JAN/FEB 1992—
AOAC INTERNATIONAL
ARLINGTON VA UNITED STATES
CONTINUES: JOURNAL - ASSOCIATION OF
OFFICIAL ANALYTICAL CHEMISTS.
INDEXING BEGAN WITH V75N1, 1992.
IN PROCESS 1060-3271
SR0074883 JC: BKS</p> |

TITLE CHANGES, SEPTEMBER-OCTOBER 1992

IM JOURNAL OF THE FORMOSAN MEDICAL ASSOCIATION
 J FORMOS MED ASSOC
 90,1991—
 EXCERPTA MEDICA ASIA ON BEHALF OF THE FORMOSAN MEDICAL ASSOCIATION
 HONG KONG HONG KONG
 PUBLISHED: TAIPEI, TAIWAN: FORMOSAN MEDICAL ASSOCIATION, 1991.
 SUPPLEMENTS ACCOMPANY SOME VOLS.
 CONTINUES: TAIWAN I HSUEH HUI TSA CHIH.
 INDEXING BEGAN WITH V90N1, 1991.
 W1 JO922QH 0371-7682
 SR0075259 JC: BLQ

IM MICRON
 MICRON
 1993—
 PERGAMON PRESS
 OXFORD ENGLAND
 FORMED BY THE UNION OF: ELECTRON MICROSCOPY REVIEWS, AND; MICRON AND MICROSCOPICA ACTA.
 INDEXING BEGINS WITH 1993.
 ON ORDER
 SR0075312 JC: BLY

TITLES NO LONGER INDEXED AS OF SEPTEMBER-OCTOBER 1992

POP FAMILY RELATIONS
 FAM RELAT
 29,1980—
 NATIONAL COUNCIL ON FAMILY RELATIONS
 MINNEAPOLIS MN UNITED STATES
 CONTINUES: FAMILY COORDINATOR.
 INDEXING BEGAN WITH V37N2, APR 1988 AND CEASED WITH V40N4, OCT 1991.
 W1 FA454H 0197-6664
 F01150000 JC: ERQ

ABSORBED MEDICAL WORLD NEWS REVIEW, 1975.
 INDEXING FOR HEALTH BEGAN WITH V18N26, DEC 26, 1977 AND CEASED WITH V30N24, DEC 25, 1989. INDEXING FOR POPLINE BEGAN WITH V20N21, 1979 AND CEASED WITH V31N16, OCT 1990.
 W1 ME5472 0025-763X
 M19200000 JC: MGW

IM LABORATORNOE DELO
 LAB DELO
 1,1955-N12,1991?
 IZDATELSTVO MEDITSINA
 MOSKVA RUSSIA
 INDEXING FOR ONLINE FILES BEGAN WITH V10N10, 1964.
 W1 LA204 0023-6749
 L00700000 JC: KYU

HLI QA REVIEW
 QA REV
 1N1, AUG 1989—
 OFFICE OF QUALITY ASSURANCE, AMERICAN MEDICAL ASSOCIATION
 CHICAGO IL UNITED STATES
 INDEXING BEGAN WITH V1N1, AUG 1989 AND CEASED WITH V3N8, DEC 1991.
 W1 Q52 1047-4773
 SR0066255 JC: AHD

POP MEDICAL WORLD NEWS
 MED WORLD NEWS
 1,1960—
 HEI PUBLISHING INC.
 HOUSTON TX UNITED STATES
 VOL. 1 NO. 1 PRECEDED BY A NUMBER DATED JAN. 29, 1960, CALLED PILOT ISSUE.
 ONE JAN. ISSUE EACH YEAR, 1963- CONSISTS OF THE ANNUAL REVIEW OF MEDICINE (1966 ISSUE CALLED MEDICAL WORLD ANNUAL)
 PUBLISHED ALSO SEPARATELY, 1967- .

IM THROMBOSIS RESEARCH. SUPPLEMENT
 THROMB RES SUPPL
 1, JUN 1974-14, 1991
 PERGAMON PRESS
 ELMSFORD NY UNITED STATES
 ISSUES FOR JUNE 1974, MAY 1976 CALLED ALSO V. 4, 8. SUPPLS 1-3 ISSUED WITH MAIN TITLE.
 SUPPLEMENT TO: THROMBOSIS RESEARCH.
 LATER SUPPLEMENTS ISSUED WITH THROMBOSIS RESEARCH.
 INDEXING BEGAN WITH V4, 1983.
 W1 TH945 0049-3848
 T09400000 JC: VRO

THE FOLLOWING TITLE RESUMED PUBLICATION

IM CLINICAL PHYSIOLOGY AND BIOCHEMISTRY
CLIN PHYSIOL BIOCHEM
1,1983—
ZUCHSCHWEDT VERLAG
MUNCHEN GERMANY
OFFICIAL JOURNAL OF: THE NATIONAL ACADEMY
OF CLINICAL BIOCHEMISTRY. IMPRINT VARIES:
BASEL: KARGER, <1983-1990>; MUNCHEN:
ZUCHSCHWEDT VERLAG, <199?- >.
INDEXING BEGAN WITH V.1,N.1,1983.
W1 CL7671 0252-1164
C26524000 JC: DHS

APPENDIX A

MEDLARS® PRICING SCHEDULE-DOMESTIC & NON-U.S.CHARGES

Effective January 1, 1993

PART 1: LEASING TAPE COPIES OF NLM DATABASES

The following is a listing of annual license fees for databases available from NLM.

There are no use charges; however, unless otherwise noted, in addition to the annual license fee, licensees in foreign countries, licensees whose databases run on computers outside the U.S., or domestic licensees who provide data outside the U.S. are subject to a surcharge. The surcharge, based on the number of connect hours, online characters transmitted, and citations printed offline is \$2.50/connect hour, \$0.02/1,000 characters transmitted, and \$0.02/citation printed offline. The surcharge for non-networked CD-ROM products is \$25.00/subscription. The surcharge for networked versions is \$2.50/connect hour, \$0.02/1,000 characters transmitted online, and \$0.02/citation printed offline. A small number of additional fees are listed at the end of Part 1.

DATABASE		ANNUAL LICENSE FEE
AIDSDRUGS	-	\$1,000 includes AIDSTRIALS. Foreign surcharge does not apply. AIDSDRUGS and AIDSTRIALS are leased together at the combined price of \$1,000.
AIDSLINE®	-	\$1,000. Foreign surcharge does not apply.
AIDSTRIALS	-	\$1,000 includes AIDSDRUGS. Foreign surcharge does not apply. AIDSDRUGS and AIDSTRIALS are leased together at the combined price of \$1,000.
AVLINE®	-	\$1,000 current year: updated monthly. \$1,000 one time fee for base file (up to current year). Foreign surcharge does not apply. Available in ELHILL Unit Record Format (EURF) or MARC-compatible format.
BIOETHICSLINE®	-	\$1,000
CANCERLIT®	-	\$3,000; however, NLM licenses CANCERLIT only to official International MEDLARS Centers. All other prospective licensees of CANCERLIT should contact NCI (National Cancer Institute) R.A. Bloch International Cancer Information Center 9030 Old Georgetown Road Bethesda, MD 20852 (301) 496-7406

November 12, 1992

DATABASE		ANNUAL LICENSE FEE
CATLINE®	-	<p>\$6,000 current year: updated weekly. -or- \$4,000 current year: updated monthly.</p> <p>\$3,000 one-time fee for base file (1965 up to the current year).</p> <p>\$3,000 one time fee for retrospective file (pre-1965). Foreign surcharge does not apply.</p> <p>Available in ELHILL Unit Record Format (EURF) or MARC-compatible format except for weekly updates of the current year CATLINE file which are available only in MARC.</p>
CHEMICAL CARCINOGENESIS RESEARCH INFORMATION SYSTEM (CCRIS)	-	\$1,000
CHEMLINE®	-	<p>\$1,000 plus royalties.</p> <p>CHEMLINE tape royalties are not paid to NLM but are negotiated with and paid directly to the file content provider, Chemical Abstracts Service (CAS). Licensees must make separate arrangements with CAS in advance.</p>
DEVELOPMENTAL AND REPRODUCTIVE TOXICOLOGY (DART™)	-	\$1,000
ENVIRONMENTAL TERATOLOGY INFORMATION CENTER BACKFILE (ETICBACK)	-	\$1,000
GENE-TOX	-	\$1,000
HAZARDOUS SUBSTANCES DATA BANK (HSDB®)	-	<p>\$2,500</p> <p>The Emergency Medical Treatment (EMT) field in HSDB is not distributed in the leased database.</p>
HEALTH PLANNING & ADMINISTRATION	-	\$3,000
HISTLINE®	-	\$1,000

DATABASE	ANNUAL LICENSE FEE												
MEDLINE® & BACKFILES	<p>- Current Year (1993) data: \$9,000 weekly updates \$5,000 monthly updates</p> <p>Older data: licensees requesting older data must select one of the 5 groupings of years as shown below.</p> <table border="1"> <thead> <tr> <th><u>Fees</u></th> <th><u>Years of Publication</u></th> </tr> </thead> <tbody> <tr> <td>\$1,750.00</td> <td>1990 - 1992</td> </tr> <tr> <td>\$3,500.00</td> <td>1985 - 1992</td> </tr> <tr> <td>\$5,250.00</td> <td>1980 - 1992</td> </tr> <tr> <td>\$5,250.00</td> <td>1975 - 1992</td> </tr> <tr> <td>\$7,000.00</td> <td>1966 - 1992</td> </tr> </tbody> </table>	<u>Fees</u>	<u>Years of Publication</u>	\$1,750.00	1990 - 1992	\$3,500.00	1985 - 1992	\$5,250.00	1980 - 1992	\$5,250.00	1975 - 1992	\$7,000.00	1966 - 1992
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\$5,250.00	1980 - 1992												
\$5,250.00	1975 - 1992												
\$7,000.00	1966 - 1992												
MESH VOCABULARY FILE®	<p>- \$1,000 (no charge with MEDLINE). Foreign surcharge does not apply.</p> <p>Available in ELHILL Unit Record Format (EURF) or MARC-compatible format. EURF is updated either monthly (to receive newly added supplementary chemical records) or annually; MARC format is updated annually.</p>												
NAME AUTHORITY FILE®	<p>- \$1,000. Foreign surcharge does not apply.</p>												
PDQ®	<p>- Available from NCI.</p> <p>All prospective domestic and non-U.S. licensees of PDQ should contact NCI (National Cancer Institute):</p> <p>R.A. Bloch International Cancer Information Center 9030 Old Georgetown Road Bethesda, MD 20852 (301) 496-7406</p>												
POPLINE®	<p>- \$2,000</p>												
REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS®)	<p>- Available from NTIS.</p> <p>Prospective domestic and non-U.S. licensees of RTECS should contact NTIS (National Technical Information Service):</p> <p>NTIS 5285 Port Royal Road Springfield, VA 22161 (703) 487-4650</p>												

DATABASE	ANNUAL LICENSE FEE
SDILINE®	- \$5,000 updated monthly (if leased separately from MEDLINE).
SERLINE®	- \$1,000. Foreign surcharge does not apply. Certain SERLINE data elements related to holdings information are not distributed in the leased databases.
TOXIC CHEMICAL RELEASE INVENTORY (TRI87, TRI88, TRI89, and TRI90)	- Available from NTIS. Prospective domestic and non-U.S. licensees of TRI should contact NTIS (National Technical Information Service): NTIS 5285 Port Royal Road Springfield, VA 22161 (703) 487-4650
TOXLINE® & TOXLINE65	- \$2,500 plus royalties for the current file (1981 through the current year). \$2,500 plus royalties for the backfile (1965-80). There are tape royalties for TOXLINE and TOXLINE65 which must be negotiated with and paid directly to two of the file content providers, BioSciences Information Service (BIOSIS) and the American Society of Hospital Pharmacists (ASHP). Licensees must make separate arrangements with those data suppliers in advance. A second leasing option is available for TOXLINE and TOXLINE65 which includes all subfiles except BIOSIS and IPA. The charges are the same as for the full files because the same number of update tapes are sent. Please specify which TOXLINE version is to be licensed.
TOXLIT® & TOXLIT65	- \$2,500 plus royalties for the current file (1981 through the current year). \$2,500 plus royalties for the backfile (1965-80) There are tape royalties for TOXLIT and TOXLIT65 which are not paid to NLM but are negotiated with and paid directly to the file content provider, Chemical Abstracts Service (CAS). Licensees must make separate arrangements with CAS in advance.
TOXNET® Databases & Databanks	- See individual database names: CCRIS, DART, ETICBACK, GENE-TOX, HSDB, RTECS, TRI.

ADDITIONAL FEES:

1. Licensees in foreign countries, licensees whose databases run on computers outside the United States, or domestic licensees who provide data outside the United States and its Territories pay a surcharge for foreign usage. The surcharge is:
 - a. For online use - \$2.50/connect hour and \$0.02/1,000 characters transmitted online; \$0.02/citation printed offline.
 - b. For CD-ROM - \$25.00/subscription for single-user products. \$2.50/connect hour and \$0.02/1,000 characters transmitted online; \$0.02/citation printed offline for networked products.
2. Non-recurring "personal use" subsets.

One-time retrieval from the current year and/or older data; limited to 150,000 citations; no updates; data must be leased directly from NLM; applicable for domestic licensees only. Cost is \$500.00.
3. A sample tape is available upon written request for a fee of \$50.00 for domestic and \$62.50 for non-U.S. requests.
4. If Current Year MEDLINE (SDILINE) data are supplied in GENER format, there is an extra, annual flat rate fee of \$1,000.00 for domestic licensees and \$1,250.00 for non-U.S. licensees.
5. Replacement tapes - \$75.00/tape for domestic licensees and \$93.75/tape for non-U.S. licensees.

Please direct any questions to:

Mr. Sheldon Kotzin
Chief, Bibliographic Services Division
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894
Telephone: 301-496-6217
FAX: 301-496-0822
INTERNET: Kotzin@lhc.nlm.nih.gov

A National Library of Medicine tape leasing information packet is available from the address listed above.

PART 2: ONLINE ACCESS TO THE NLM DATABASES

Online charges are calculated by using an algorithm which includes connect hour charges and charges for search statements, citations, computer resources (i.e., disk accesses), and characters transmitted to the user's terminal. The charges remain the same regardless of time of day.

NON-U.S. USERS: In addition to the algorithm a foreign surcharge applies for online access to NLM by users outside the U.S. The surcharge is \$2.50/connect hour and \$0.02/1,000 characters transmitted (the equivalent of \$5.00/hour for users transmitting 125,000 characters/hour). There is a \$0.10/page surcharge for offline print pages.

The following is a listing of the NLM ELHILL databases that are available online at NLM and charged according to the algorithm that is presented in detail at the end of Part 2. The foreign surcharge does not apply for AIDS DRUGS, AIDSLINE, AIDSTRIALS, AVLINE, CATLINE, MeSH, NAF, and SERLINE.

AIDS DRUGS	DOCUSER®
AIDSLINE®	HEALTH
AIDSTRIALS	HISTLINE®
AVLINE®	MEDLINE® and BACKFILES
BIOETHICSLINE®	MeSH VOCABULARY FILE®
BIOTECHSEEK	NAME AUTHORITY FILE®
CANCERLIT®	POPLINE®
CATLINE®	SDILINE®
ChemID®	SERLINE®
DENTALPROJ™	TOXLINE® & TOXLINE65
DIRLINE®	

The following databases are exceptions to the pricing algorithm:

ALERT	-	The charges for citations and characters do not apply.
CHEMLINE®	-	For domestic users, CHEMLINE royalty charges of \$0.61 per online citation, \$0.70 per search statement, and \$23.00 per hour of connect time are added to the algorithm. Offline page charges of \$1.68 per page include \$1.38 per page royalty. Royalty charges are subject to change without advance notice. For non-U.S. users, effective January 1988, NLM negotiates with and collects royalties for the Chemical Abstracts Service for CHEMLINE from the non-U.S. Online Center.
PDQ®	-	A flat-rate of \$18.00/hour is charged.
TOXLIT® & TOXLIT65	-	For domestic users, TOXLIT royalty charges of \$0.61 per online citation, \$0.85 per search statement and \$23.00 per hour of connect time are added to the basic online algorithm. Offline page charges of \$1.68 per page include \$1.38 per page royalty. Royalty charges are subject to change without advance notice.
TOXNET® Databases & Databanks	-	These files include CCRIS, DART, EMICBACK, ETICBACK, GENE-TOX, HSDB, IRIS, RTECS, TRI and TRIFACTS. The algorithm used to price online searching on these files approximates the ELHILL algorithm.

Effective January 1, 1993

NLM ONLINE PRICING ALGORITHM CHARGES TO DOMESTIC USERS ¹

Prices apply 24 hours per day.

File	Connect Charge (Per Hour)	Search Statement Charge	Online Citation Charge	Interaction Charge (Carriage Returns)	Computer Resources Disk Accesses (Per 100)	Online Character Charge (Per 1,000)
ELHILL COMPUTER						
MEDLINE® & Backfiles	\$2.40	\$.06	\$.01	--	\$.04	\$.05
TOXLIT® & TOXLIT65	25.40*	.91*	.62*	--	.04	.05
TOXLINE® & TOXLINE65	2.40	.06	.01	--	.04	.05
CHEMLINE®	25.40**	.76**	.62**	--	.04	.05
ALERT	2.40	.06	--	--	.04	--
All Other	2.40	.06	.01	--	.04	.05
PDQ®	18.00	--	--	--	--	--
TOXNET COMPUTER						
All Files	3.80	.08	--	.02	--	.08

When calculated across the online algorithm, an average MEDLINE search costs about \$1.25 ².

*Includes royalty charges of \$23.00 per Connect Charge, \$0.85 per Search Statement, and \$0.61 per Online Citation Charge for TOXLIT and its Backfile, TOXLIT65.

**Includes royalty charges of \$23.00 per Connect Charge, \$0.70 per Search Statement, and \$0.61 per Online Citation Charge for CHEMLINE.

NLM OFFLINE CHARGES TO DOMESTIC USERS

Pages	Per Page
MEDLINE & Other Databases	\$0.30
TOXLIT & TOXLIT65	1.68 (includes \$1.38 royalty charge per page)
CHEMLINE	1.68 (includes \$1.38 royalty charge per page)
TOXNET Files	0.30
Offsearches	Per File
All Databases	\$1.00 (plus page charges)
Automatic SDI Searches	Per Search
SDILINE, AIDSLINE, AVLINE, CANCERLIT, CATLINE, HEALTH, POPLINE, TOXLINE	\$1.50 (plus page charges)
TOXLIT	6.70 (plus page charges; includes \$5.20 royalty charge)

¹ Non-U.S. online users incur charges under the NLM online pricing algorithm and are charged \$2.50 extra on the connect charge (per hour) portion and \$0.02 per one thousand characters transmitted (the equivalent of \$5.00/hour). There is a \$0.10/page surcharge for offline print pages. The foreign surcharge does not apply for the following databases: AIDSDRUGS, AIDSLINE, AIDSTRIALS, AVLINE, CATLINE, MeSH VOCABULARY FILE, NAME AUTHORITY FILE and SERLINE.

²The hourly rate is approximately \$18.00.

REVISED 1993 WEEKLY UPDATE SCHEDULE FOR MEDLINE

<u>Entry Month</u>	<u>Updated MEDLINE Available</u>	<u>Date of Entry (DA) Ranges</u>
9301 (EM)	Dec 14	921023-921125*
9302 (EM)	Dec 26	921126-921223
9303 (EM)		
Part 1	Jan 2	921224-921230
Part 2	Jan 9	921231-930107
Part 3	Jan 16	930108-930114
Part 4	Jan 23	930115-930121
Part 5	Jan 30	930122-930128
9304 (EM)		
Part 1	Feb 6	930129-930204
Part 2	Feb 13	930205-930211
Part 3	Feb 20	930212-930218
Part 4	Feb 27	930219-930225
9305 (EM)		
Part 1	Mar 6	930226-930304
Part 2	Mar 13	930305-930311
Part 3	Mar 20	930312-930318
Part 4	Mar 27	930319-930325
9306 (EM)		
Part 1	Apr 3	930326-930401
Part 2	Apr 10	930402-930408
Part 3	Apr 17	930409-930415
Part 4	Apr 24	930416-920422
9307 (EM)		
Part 1	May 1	930423-930429
Part 2	May 8	930430-930506
Part 3	May 15	930507-930513
Part 4	May 22	930514-930520
Part 5	May 29	930521-930527
9308 (EM)		
Part 1	Jun 5	930528-930603
Part 2	Jun 12	930604-930610
Part 3	Jun 19	930611-930617
Part 4	Jun 26	930618-930624

<u>Entry Month</u>	<u>Updated MEDLINE Available</u>	<u>Date of Entry (DA) Ranges</u>
9309 (EM)		
Part 1	Jul 3	930625-930701
Part 2	Jul 10	930702-930708
Part 3	Jul 17	930709-930715
Part 4	Jul 24	930716-930722
Part 5	Jul 31	930723-930729
9310 (EM)		
Part 1	Aug 7	930730-930805
Part 2	Aug 14	930806-930812
Part 3	Aug 21	930813-930819
Part 4	Aug 28	930820-930826
9311 (EM)		
Part 1	Sep 4	930827-930902
Part 2	Sep 11	930903-930909
Part 3	Sep 18	930910-930916
Part 4	Sep 25	930917-930923
9312 (EM)		
Part 1	Oct 2	930924-930930
Part 2	Oct 9	931001-931007
Part 3	Oct 16	931008-931014
Part 4	Oct 23	931015-931021
Part 5	Oct 30	931022-931028
9401 (EM)	Dec 13	931029-931124*

*Modified because of holiday

Search hint: If a patron wants weekly updates to a search, use the pattern shown below, where SS 1: represents your completed search strategy.

On August 7 - SS 1: AND 9310 (EM)
 On August 14 - SS 1: AND 9310 (EM) AND FROM 930806 TO 930812 (DA)
 On August 21 - SS 1: AND 9310 (EM) AND FROM 930813 TO 930819 (DA)
 On August 28 - SS 1: AND 9310 (EM) AND FROM 930820 TO 930826 (DA)

COMPLIMENT/CONCERN

NAME:

USER ID CODE:

ADDRESS:

COMMENTS:

We work for you. Please tell us what is right and what you would like to see changed.

Return to: MEDLARS Management Section
National Library of Medicine
Bethesda, MD 20894 (FAX 301-496-0822)

CHANGE OF ADDRESS - U.S. USERS ONLY

You MUST include your User ID Code:

Mailing Information:

Address:

Billing Information, if different:

Address:

Daytime Phone:

Daytime Phone:

Check here if you purchased Grateful Med. The new address information will be forwarded to NTIS.

Return to: MEDLARS Management Section
National Library of Medicine
Bethesda, MD 20894 (FAX 301-496-0822)

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