# The NLM Technical Bulletin

## In This Issue

## ELHILL® Update

[Editors' Note: ELHILL = search system capabilities. ELHILL actually refers to the software programs that control the online search capabilities of most of the MEDLARS files. ELHILL is an acronym derived from the name of Senator Lister Hill, who cosponsored the legislation which created the National Library of Medicine from the Armed Forces Medical Library in 1956.]

### Introduction

This article will include only material that is new information since the ELHILL Update article printed in the September-October 1992 *Technical Bulletin*. Please consult the September-October and the November-December 1992 issues for more information on new system features and specific file update information for 1993.

### Name Fragments and the STOPWORD List

STOPWORDS are those terms that cannot be searched as Text Words. Terms that are STOPWORDS in the 1993 ELHILL system were published on page 15 of the September-October 1992 *Technical Bulletin*. Numbers are not usually

| MEDLARS® DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|---|---|---|---|---|
| **ELHILL® COMPUTER** | | | | |
| AIDSDRUGS | 150 | | 03 DEC 92 | |
| AIDSLINE®** | 77,938 | JAN 80-APR 93 | 13 FEB 93 | 9304(EM) |
| AIDSTRIALS | 457 | | 13 FEB 93 | |
| AVLINE® | 24,786 | THROUGH 1993 | 11 FEB 93 | |
| BIOETHICS® | 37,449 | JAN 73-FEB 93 | 28 JAN 93 | 9302(EM) |
| BIOTECHSEEK | 3,067 | JAN 90-MAR 93 | 06 FEB 93 | 9303(EM) |
| CANCERLIT® | 936,719 | JAN 63-FEB 93 | 06 FEB 93 | 9302(EM) |
| CATLINE® | 706,056 | THROUGH 1993 | 11 FEB 93 | |
| CHEMID | 267,993 | | 06 FEB 92 | |
| CHEMLINE® | 1,165,936 | | 02 JAN 93 | 9212(EM) |
| DENTALPROJ | 786 | | 02 MAY 92 | |
| DIRLINE® | 14,429 | | 08 DEC 92 | |
| DOCUSER | 13,551 | | 16 JAN 93 | |
| HEALTH | 657,106 | JAN 75-MAR 93 | 06 FEB 93 | 9303(EM) |
| HISTLINE® | 108,865 | | 06 FEB 93 | 9302(EM) |
| MEDLINE®* | 1,076,355 | JAN 90-APR 93 | 13 FEB 93 | 9304(EM) |
| MED85 | 1,687,608 | JAN 85-DEC 89 | 09 JAN 93 | |
| MED80 | 1,388,642 | JAN 80-DEC 84 | 13 FEB 93 | |
| MED75 | 1,278,687 | JAN 75-DEC 79 | 12 DEC 92 | |
| MED66 | 1,986,626 | JAN 66-DEC 74 | 30 JAN 93 | |
| MESH VOC® | 87,531 | 1993 | 13 FEB 93 | |
| NAME AUTH® | 383,095 | | 30 JAN 93 | |
| PDQ® | | THROUGH FEB 93 | 01 FEB 93 | |
| POPLINE | 195,792 | 1970-FEB 93 | 06 FEB 93 | 9303(EM) |
| SDILINE® | 35,893 | MAR 93 | 29 JAN 93 | 9302(EM) |
| SERLINE® | 80,394 | 1993 | 09 FEB 93 | |
| TOXLINE® | 1,121,479 | 1981-1992 | 12 DEC 92 | 9212(EM) |
| TOXLINE65 | 707,236 | PRE 1965-1980 | 07 MAR 92 | |
| TOXLIT™ | 1,109,969 | 1981-1992 | 12 DEC 92 | 9212(EM) |
| TOXLIT65 | 586,405 | 1965-1980 | 01 SEP 87 | |

*N.B. FILE IS UPDATED WEEKLY; THIS IS PART 2 OF 4.
**N.B. FILE IS UPDATED WEEKLY; THIS IS PART 2 OF 5.

| **TOXNET® COMPUTER** | | | | |
|---|---|---|---|---|
| CCRIS | 3,990 | | 15 DEC 92 | |
| DART™ | 15,087 | | 04 FEB 93 | |
| EMICBACK | 75,886 | | 08 SEP 92 | |
| ETICBACK | 49,593 | | 08 JUL 90 | |
| GENE-TOX | 2,919 | | 21 OCT 92 | |
| HSDB® | 4,344 | | 12 FEB 93 | |
| IRIS | 633 | | 01 FEB 93 | |
| RTECS® | 116,977 | | 12 FEB 93 | |
| TRI87 | 79,488 | | 25 JAN 93 | |
| TRI88 | 86,028 | | 25 JAN 93 | |
| TRI89 | 85,563 | | 12 FEB 93 | |
| TRI 90 | 84,363 | | 12 FEB 93 | |
| TRIFACTS | 326 | | 10 APR 92 | |

# Technical Notes

### Annotated MeSH Errors

Two print errors have been detected in the 1993 Medical Subject Headings - Annotated Alphabetic List. They are as follows:

On page 267, the see reference:

> 7,8-DIHYDROXY-9,10-EPOXY-7,8,9,10-
> TETRAHYDROBENZO(A)

 should read:

> 7,8-DIHYDROXY-9,10-EPOXY-7,8,9,10-
> TETRAHYDROBENZO(A)PYRENE

The entry is correct under its parent heading on page 266.

On page 464, the heading:

> 8-HYDROXY-2-(DI-N-PROPYLAMINO)

should read:

> 8-HYDROXY-2-(DI-N-PROPYLAMINO)TETRALIN

The entry is correct in the MeSH Tree Structures.

The errors were the result of a problem in the publications programs that incorrectly truncated these terms; it has been corrected for both the 1994 Annotated MeSH and the 1993 Black and White MeSH. These terms are listed correctly in the online MeSH file and in all databases containing these MeSH headings.

However, online searchers should remember that although you may enter terms of any length online, the ELHILL software automatically truncates long terms at 36 characters and looks for a match on only the first 36 characters. If you use the TREE command with a term longer than 36 characters, it is necessary for you to truncate the term in order to retrieve postings (because truncation doesn't happen automatically in conjunction with the TREE command). It is also necessary to truncate MeSH headings ending in numbers when using the TREE command. (See pages 16-19 of the May-June 1992 *Technical Bulletin* for more details on TREEing headings ending in numbers.)

### CHEMLINE, TOXLIT Price Changes

Price changes for CHEMLINE and the TOXLIT files (TOXLIT and TOXLIT65) will be effective March 1, 1993. The new prices reflect the changes that Chemical Abstracts Service (CAS), the supplier of proprietary data for these files, has made in the royalty rates it charges. CAS has eliminated its Connect Charge royalty, and raised its Online Citation Charge and Search Statement Charge royalties (the latter serves as an estimate of the number of Search Terms used). The new charges for these files have been incorporated into the revised NLM Online Pricing Algorithm Chart in Appendix A. The new NLM rates for online and offline use of these royalty files are also summarized separately in Table I on the reverse side of Appendix A. Watch the online NEWS for notice of when these royalty changes will appear in the online SHOW COST displays.

### LOAN STATUS File Now Being Charged

As of January 1, 1993, activity in the LOAN STATUS file is being charged at the same rate as the ALERT (INFORM) file. See the revised NLM Online Pricing Algorithm Chart in Appendix A. Charges will be incurred in the LOAN STATUS file when document orders are sent using Grateful Med's Loansome Doc, and when a Loan Status report is requested from Loansome Doc.

## New Codes "Practice Time" Credit

Effective January 1, 1993 new codes issued to users come with a "practice time" credit of $20.00 to be used within one year. Previously, new codes were issued a $40.00 "practice time" credit to be used within one year. However, with the approximately 40% reduction in online access fees which also became effective January 1, 1993 the "practice time" credit was also reduced. The result of this change is that new codes issued after January 1 will effectively be receiving the same amount of complimentary "practice time" as those prior to January 1.

## NLM Update and Online Users' Meeting at MLA

The NLM Online Users' Meeting will be held on Monday, May 17 from 12:00 p.m. to 12:45 p.m. at the Annual Meeting of the Medical Library Association in Chicago, IL. The NLM Update will be held on Wednesday, May 19 from 8:00 a.m. to 9:30 a.m. Specific room assignments for both meetings will be announced in the online NEWS and in the next issue of the *Technical Bulletin*.

## Audiovisual Serial Indexing Discontinued

Beginning in 1977, NLM indexed selected audiovisual serials and published the citations as the Index to Audiovisual Serials in the Health Sciences until 1983, and as "Appendix I: Audiovisual Serials Index" of the NLM Audiovisuals Catalog since that date.

Due to reported low use of these indexing data and resource limitations, NLM has discontinued indexing of audiovisual serials effective with the end of the 1992 indexing year. The 1992 annual cumulation of the NLM Audiovisuals Catalog will be the last issue to include an appendix containing indexing citations for audiovisual serials.

## POPLINE Update: Expanded Population Law Coverage and New Keywords

In November 1992, the Population Information Program (PIP) at Johns Hopkins University began incorporating into POPLINE all legislation, judicial decisions, constitutions, development plans, policies, and international resolutions and statements related to population issues. Materials identified by the Harvard Law School Library for its Annual Review of Population Law publications will now be searchable on POPLINE. Approximately 1400 Annual Review of Population Law records will be input into POPLINE annually. This project is funded by the United Nations Population Fund.

In 1992, PIP added 126 new keywords to the POPLINE vocabulary. A listing of the POPLINE vocabulary entitled A User's Guide to POPLINE Keywords is available for $35.00 from Johns Hopkins University. Requests for the User's Guide should be sent to:

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

## 1992 Cumulated Index Medicus (CIM)

This publication is a 17-volume cumulation of the citations appearing in the monthly Index Medicus for 1992. Orders may be placed now, but CIM will not be available for distribution until early April 1993.

Order Number:        S/N 617-052-00307-4

Price:               $301.00
                     ($376.25 non-U.S.)

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

To order this publication contact:

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

## Publications Available from NTIS

To order any of the following documents from NTIS, use the order form in Appendix H or call 1-800-553-6847 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 and handling charge required for each order ($4.00 for other countries). There is an additional charge of $7.50 for orders placed with a purchase order.

## Tumor Key 1993

A new edition of the Tumor Key is not being issued, because there is only one change from the 1992 edition. Please make the following change on page 44 of your copy. Change:

neurofibromatosis - NEUROFIBROMATOSIS 1

to

neurofibromatosis - NEUROFIBROMATOSIS

The 1992 Tumor Key is available from NTIS; the full title is: TECHNICAL NOTES: MEDLARS INDEXING INSTRUCTIONS, TUMOR KEY SUPPLEMENT, 1992.

Order Number:     PB92-129972

Hardcopy Price:    $19.50 (U.S./Canada/Mexico)
                   $39.00 (other countries)

Microfiche Price:   $9.00 (U.S./Canada/Mexico)
                   $18.00 (other countries)

Source:           NTIS

## List of Serials Indexed for Online Users, 1993

The 1993 edition of the List of Serials Indexed for Online Users (LSIOU) is now available from the National Technical Information Service. It contains over 7,300 serial titles listed alphabetically by abbreviated title followed by full title. It is designed to provide complete bibliographic information on serials and congress proceedings cited in three MEDLARS files: MEDLINE (including the backfiles), Health Planning & Administration, and POPLINE.

Order Number:     PB93-128866

Hardcopy Price:    $24.00      (U.S./Canada/
Mexico)
                   $12.00 (other countries)

Microfiche Price:   $12.50
                   $25.00 (other countries)

Source:           NTIS

## 1993 MeSH Chemical Tool

Medical Subject Headings—Supplementary Chemical Records, 1993 is available for order. Prices for hardcopy and microfiche are listed below.

Order Number:  PB93-115244/GBB

Hardcopy Price:    $46.00 (U.S./Canada/Mexico)
                   $92.00 (other countries)

Microfiche Price:  $23.00 (U.S./Canada/Mexico)
                   $46.00 (other countries)

Source:           NTIS

## Forms Enclosed

NLM issues the following forms annually for your convenience. They may be reproduced as needed.

Appendix B: Request for Training Form
Appendix C: Request for Online Training Codes
Appendix D: Participant's Profile/Training Code Use
Appendix E: NLM Automatic SDI Service Request Form
Appendix F: Request for Master Account
Appendix G: Suggestion for Medical Subject Headings Change
Appendix H: NTIS Order Form

## Free Workshop on IRIS and TOXNET April 2 at NLM

A free workshop on the TOXNET system and its databases, including IRIS (EPA's Integrated Risk Information System), will be offered at NLM on Friday, April 2, from 10 AM - 3 PM. This workshop is intended for beginning searchers new to TOXNET who need a basic grasp of the content of its files, how they are structured, and how they are searched. An emphasis will be placed upon IRIS, using it as a model to demonstrate features of TOXNET searching. Other NLM files, such as the Hazardous Substances Data Bank (HSDB) and TOXLINE, also contain information that could support risk assessment activities, and will be reviewed in the workshop, as well as EPA's Toxic Chemical Release Inventory (TRI). Lecture, online demonstration, and hands-on exercises will provide you with a working knowledge of how to search IRIS and other NLM files.

Enrollment is limited. To register, call, FAX, or write. Be sure to indicate that you are interested in the IRIS/TOXNET WORKSHOP, and provide your name, title, complete company name, address, and phone number, and NLM User ID code.

IRIS/TOXNET WORKSHOP
Toxicology Information Program
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20814
TEL: 301-496-6531
FAX: 301-480-3537 ❏

Text Words. (See the rules for Text Word generation (Online Services Reference Manual (OSRM)4.8.1.) However, the searcher who unwittingly enters one of the "forbidden" terms as a Text Word may indeed find postings, as shown below in Figure 1. The reason for this is that chemical terms are parsed according to a specific set of rules (See OS R M 13.4.8)

to allow all the pieces of the chemical name (numerical and character strings) to be searched separately in the Name Fragment (NF) field. The STOPWORDS list does not apply to the generation of Name Fragments. And because all NF postings are duplicated as part of Text Word (TW) postings, STOPWORDS and numbers can appear as Text Words as shown in the NEIGHBORing example in Figures 2 and 3.

```
YOU ARE NOW CONNECTED TO THE MEDLINE (1990 - 93) FILE.

SS 1 /C?
USER:
(tw) a

PROG:
SS (1) PSTG (13303)

SS 2 /C?
USER:
(tw) 4

PROG:
'4' IS TREATED AS A SEARCH TERM HERE, NOT A SEARCH STATEMENT NUMBER.
SS (2) PSTG (8731)
```

**Figure 1 - Retrieving on a STOPWORD or Number**

```
YOU ARE NOW CONNECTED TO THE MEDLINE (1990 - 93) FILE.

SS 1 /C?
USER:
nbr a

PROG:

SELECT # POSTINGS  TERM
   1          1    'T HART M (AU)
   2          1    'THART B (AU)
   3          8    A (GS)
   4      13303    A (TW)
   5      13303    A (NF)
UP N OR DOWN N OR ENTER A SELECT COMMAND.
```

**Figure 2 - Neighboring shows STOPWORD as Text Word and Name Fragment**

```
USER:
nbr 4

PROG:

SELECT # POSTINGS TERM
   6          2    3999-G (TW)
   7          3    39995-74-9 (RN)
   8       8731    4 (TW)
   9       8731    4 (NF)
  10          6    4 ALPHA-GLUCANOTRANSFERASE (NM)
```

**Figure 3 - Neighboring shows Number as Text Word and Name Fragment**

The terms shown below in Figure 4 are in the 1993 ELHILL STOPWORD List and yet will retrieve postings if searched as Text Words.

| A | BE | IT | NOS |
|-----|-----|-----|-----|
| ABS | BUT | KM | OF |
| ALL | BUY | MAY | ON |
| AN | DO | MG | OR |
| AND | IF | ML | SO |
| AS | IN | NO | TO |
| AT | IS | NOR | |

**Figure 4 -ELHILL STOPWORDS Showing Postings as Text Words as of January 1993**

The searcher needs to remember that all the retrieval obtained from entering these terms or numerical strings qualified by TW, will be from the Name Fragment field; that is you are finding these letters and numbers as strings embedded in a chemical name and there will be no retrieval on these terms as Text Words from the Title or Abstract fields.

## Publication Types

Publication Types (PT) were introduced in 1991. A complete listing of Publication Types, with their scope notes, is given in the 1993 Annotated MeSH on pages I-17 - I-23. The new Publication Types added for 1993 are:

CLINICAL TRIAL, PHASE I
CLINICAL TRIAL, PHASE II
CLINICAL TRIAL, PHASE III
CLINICAL TRIAL, PHASE IV
INTERVIEW
META-ANALYSIS

Searchers might wish to pay particular attention to the scope note for META-ANALYSIS which distinguishes it from a review.

META-ANALYSIS Scope Note:

A quantitative method of combining the results of independent studies (usually drawn from the published literature) and synthesizing summaries and conclusions which may be used to evaluate therapeutic effectiveness, plan new studies, etc. It is often an overview of clinical trials. It is usually called a meta-analysis by the author or sponsoring body and should be differentiated from reviews of literature.

Articles indexed with META-ANALYSIS (PT) are not also indexed with REVIEW (PT) even though to the average user they might appear to be review articles. See retrieval obtained with META-ANALYSIS in Figure 5.

```
SS 1 /C?
USER:
meta-analysis (pt)

PROG:
SS (1) PSTG (900)

SS 2 /C?
USER:
(tf) review

PROG:
SS (2) PSTG (9549)

SS 3 /C?
USER:
1 and 2

PROG:
SS (3) PSTG (80)

SS 4 /C?
USER:
prt ti, pt

PROG:

    .
    .
    .

3
TI  - Oral contraceptives and cycle control: a critical review of the literature.
PT  - JOURNAL ARTICLE
PT  - META-ANALYSIS

4
TI  - Gender differences in tardive dyskinesia: a critical review of the literature.
PT  - JOURNAL ARTICLE
PT  - META-ANALYSIS

5
TI  - Oral antibiotic therapy for acute pyelonephritis: a methodologic review of the literature.
PT  - JOURNAL ARTICLE
PT  - META-ANALYSIS
```

**Figure 5 - Sample Retrieval using META-ANALYSIS (PT)**

Because articles indexed with META-ANALYSIS are not also indexed with REVIEW (PT), the searcher who wants to retrieve all kinds of review articles should consider the revised strategy for 1993 of:

SS1:  SUBJECT
SS2:  (PT) REVIEW OR META-ANALYSIS
SS3:  1 AND 2

Unlike MeSH Headings, Publication Types are not hierarchical, do not have tree numbers and cannot be EXPLODEd. However, redundant indexing is used with some Publication Types creating "families" of PTs. As shown in Figure 6, articles indexed with a PT for a specific type of review, also contain the more general Publication Type REVIEW. This indexing practice allows the searcher greater flexibility. For example, you can search for a specific type of review article, or you can search under the general REVIEW (PT) and retrieve all the various kinds of reviews without having to key in each PT individually.

| If Indexed with the Specific Publication Type | Also Indexed with the General Publication Type |
|---|---|
| CONSENSUS DEVELOPMENT CONFERENCE | REVIEW |
| CONSENSUS DEVELOPMENT CONFERENCE, NIH | REVIEW |
| REVIEW LITERATURE | REVIEW |
| REVIEW OF REPORTED CASES | REVIEW |
| REVIEW, ACADEMIC | REVIEW |
| REVIEW, MULTICASE | REVIEW |
| REVIEW, TUTORIAL | REVIEW |
| CONSENSUS DEVELOPMENT CONFERENCE, NIH | CONSENSUS DEVELOPMENT CONFERENCE |
| CLINICAL TRIAL, PHASE I | CLINICAL TRIAL |
| CLINICAL TRIAL, PHASE II | CLINICAL TRIAL |
| CLINICAL TRIAL, PHASE III | CLINICAL TRIAL |
| CLINICAL TRIAL, PHASE IV | CLINICAL TRIAL |
| RANDOMIZED CONTROLLED TRIAL | CLINICAL TRIAL |
| PRACTICE GUIDELINE | GUIDELINE |

**Figure 6 - "Families" of Publication Types**

The searcher should also be aware that citations indexed with MULTICENTER STUDY (PT) may or may not be indexed with CLINICAL TRIAL (PT). Some articles indexed with MULTICENTER STUDY refer to research studies and not clinical studies. Only multicenter studies that are actually clinical in nature will receive both PTs. Therefore, there isn't a one-to-one correlation from the specific PT MULTICENTER STUDY to the general PT CLINICAL TRIAL, as shown with the PTs listed in Figure 6. ❑

# 1993 MESH Update

### New See References in the 1993 Annotated MeSH

Over 50 see references were created this year utilizing instructions to indexers, catalogers and searchers found in 1992 annotations.  Retrieving candidates for see references was simple because the following conventions were used in the annotations:

    ... go here ...
    ... goes here ...
    ... go under ...
    ... goes under ...
    ... does not go here: index under ...
    ... includes ...
    ... = ...

Examples of 1992 MeSH instructions:

BEETLES
    fireflies go here

FEMORAL FRACTURE
    intertrochanteric fracture does not go here:
    index under HIP FRACTURES

XANTHOMATOSIS
    xanthogranulomatous pyelonephritis  =
    PYELONEPHRITIS, XANTHOGRANULOMATOUS

In the 1993 Annotated MeSH the terms in the instructions are all see references as shown below:

    FIREFLIES see BEETLES
    INTERTROCHANTERIC FRACTURES
    see HIP FRACTURES
    XANTHOGRANULOMATOUS PYELONEPHRITIS
    see
    PYELONEPHRITIS, XANTHOGRANULOMATOUS

The advantage to having these terms as see references, rather than in the annotation of the MeSH heading,

becomes evident when you think about finding a term like fireflies in the 1992 MeSH.  Unless you already knew that a firefly was related to a beetle, it wouldn't have been too obvious how an indexer would have handled an article on fireflies.  When the annotation noted "includes" or "index under," the MEDLINE database was examined to see whether a count of the concept warranted creation of the concept as a main heading.  About 10 new MeSH headings were so created.

### Subheadings in Annotations

There is a major change in the delineation of permitted subheadings, also called Allowable Qualifiers (AQ), shown in annotations starting in 1993.  Most of the instructions of the sort "do not use", "only", or "only likely qualif" have been eliminated.

The various permissions and restrictions were supplied originally because subheadings were only loosely programmed by category.  So it was necessary to warn indexers and catalogers from certain main heading/subheading combinations that were possibly permitted by category but were incorrect for the particular heading.  Now that the subheadings lists are edited against each individual main heading through a programming function, most of the subheading admonitions merely repeat the information in the AQ field and are superfluous.

However, subheading data followed by indexing or cataloging instructions or those deemed as serving as a useful reminder to indexers and catalogers were retained.  For example: "do not use /congen & do not coord with INFANT, NEWBORN, DISEASES" would be kept because there is additional information following the "do not use" admonition.  The subheading data that were eliminated merely repeated the information available in the AQ field found in the online MeSH file.

## Entry Combinations and Annotations

An Entry Combination is a more specific or more accurate main heading which is used in preference to a possible main heading/subheading combination. For example, ARM/injuries is a forbidden combination and the searcher is directed with a see reference to use ARM INJURIES. Because these Entry Combinations are listed as printed see references, they have been removed from the body of the annotation in the 1993 Annotated MeSH. See the examples shown below:

### 1992 Annotated MeSH

**ARM**
A1.378.209+
primates only; for whole arm or upper arm (FOREARM is available); for bone use HUMERUS; /inj = ARM INJURIES; TN 117: extremities of humans & animals; NIM when merely locational as in skin dis (IM)
see related
    FORELIMB
X   EXTREMITY, UPPER
X   UPPER EXTREMITY
ARM/injuries see ARM INJURIES

### 1993 Annotated MeSH

**ARM**
A1.378.209+
primates only; for whole arm or upper arm (FOREARM is available): for bone use HUMERUS; TN 117: extremities of humans & animals; NIM when merely locational as in skin dis (IM)
see related
    FORELIMB
X   EXTREMITY, UPPER
X   UPPER EXTREMITY
ARM/injuries see ARM INJURIES

## New Information in Subheading Annotations

Some new kinds of information have been added to certain MeSH headings. For Category D terms (chemicals) an attempt has been made to start every annotation with a word about its chemical or pharmacological function. For example compare the annotations for the following term.

1992:  CINANSERIN
                do not use /biosyn /defic /physiol

1993:  CINANSERIN
                a serotonin antagonist

When a main heading clearly states a function, no qualifying introduction is given. For example ANTIMETABOLITES, ANTINEOPLASTIC needs no further explanation by this new feature.

Similarly, annotations for bacteria (B3), viruses (B4), and fungi (B5) were modified by the addition of a word or two to orient the user on the taxonomic position or classification of the organism. For example:

1992:  HANSENULA
                do not use /anat /embryol /microbiol /
                parasitol

1993:  HANSENULA
                a yeast on trees and in soil

These brief descriptions are derived from the more detailed information in the MeSH Scope Note (MS) field, available online in file MESH as shown in Figure 1 on page 12.

```
SS 1 /C?
USER:
file mesh

PROG:
YOU ARE NOW CONNECTED TO THE MESH VOCABULARY (1993) FILE.

SS 1 /C?
USER:
(mh) hansenula or cinanserin

PROG:
SS (1) PSTG (2)

SS 2 /C?
USER:
prt mh, ms

PROG:


1
MH -   Cinanserin
MS -   2'-[[3-(Dimethylamino)propyl]thio]cinnamanilide monohydrochloride. A serotonin
       antagonist with limited antihistaminic, anticholinergic and immunosuppressive
       activity.


2
MH -   Hansenula
MS -   Yeast-like fungi, of the family Saccharomycetaceae, order Endomycetales isolated
       from trees, bark beetles, fruit, and soil.
```

**Figure 1 - Retrieving Data in the MeSH Scope Note Field**

## Allowable Qualifier List Changes

Allowable Qualifier (AQ) lists were created for the 1990 MeSH and have been assigned to descriptors on a heading-by-heading basis since that time. This year the subheading /economics has been added to several D (Chemicals and Drugs) lists. In all trees of Category E (Procedures and Techniques-Diagnostic), /adverse effects has been made available for use when it is sensible. And the subheading /economics has also been widely applied in Category E.

MONOSOMY, MOSAICISM, and TRISOMY treed in category G5 (Genetics) have had the following subheadings added to their AQ lists: /diagnosis /genetics /immunology /pathology /physiopathology. Authors write on these three states as if they are diseases and therefore the standard disease subheadings seemed more appropriate than the standard G list subheadings.

## Form Subheadings

One new form subheading was created for 1993: electronic journals. Form subheadings are always used in cataloging after topical subheadings. For example, a journal published electronically with the

hypothetical title: Experimental Drug Therapies for AIDS would be indexed as ACQUIRED IMMUNODEFICIENCY SYNDROME/Drug Therapy - electronic journals (MeSH heading/topical subheading-form heading). The annotation follows the standard pattern for form subheadings and reads:

"catalogers' form subhead only; for journals, serials, or other periodicals published and distributed in online or other electronic format; DF: ELEC JOUR"

The Online note reads:

"search policy: CATLINE, AVLINE only; Online Manual; use: main heading AND ELECTRONIC JOURNALS (SH)"

## Changes in the 1993 PERMUTED MeSH

In 1992, the Permuted MeSH introduced a new feature: that of listing words by selected linguistic roots. That is, in addition to the standard permutations of MeSH headings, there were entries at forms like -GRAPHY, -ITIS and 18 other such combining forms. Thus, under -GRAPHY was a host of headings such as AUTORADIOGRAPHY, ECHOCARDIOGRAPHY, FIRST-PASS VENTRICULOGRAPHY - terms which could not have been approachable from the first letter of the term.

The 1992 combining forms are printed below as a reminder of the availability of this feature:

| | |
|---|---|
| -ADENOMA | -GASTR- |
| -ANGIO- | -GRAPHY |
| -BIOL- | -IMMUN- |
| -CARCINOMA- | -ITIS |
| -CARDI- | -ODONT- |
| -CUTAN- | -OSTOMY |
| -DERM- | -PATH- |
| -ECTOMY | -PNEUMO- |
| -EMIA, -EMIC | -PULM- |
| -ENCEPH- | -SARCOMA- |

In 1993 the following additional combining forms appear in situ in the Permuted MeSH:

| | |
|---|---|
| -ALGIA | -PENIA |
| -ARTHR- | -PLASIA |
| -CELE | -PLASTY |
| -CYTOSIS | -SCOPY |
| -FISH | -THERAPY |
| -GENESIS | -TOMY |
| -LYSIS | -TROPH- |
| -METR- | |

More combining forms will be added to the 1994 Permuted MeSH. ❑

# Grateful Med® IBM Version 6.0 Upgrade

The National Library of Medicine will be sending out an update for Grateful Med 6.0 in the spring of 1993. The update will be shipped to all registered Grateful Med users free of charge. This update is necessary for Grateful Med 6.0 to work properly with changes in the NLM computer for 1993. Below are some questions and answers about this update:

## Why should I update Version 6.0?

The update program will add the following important changes:

1. New 1993 MeSH vocabulary terms and changed MeSH terms will be added.

2. Terms used in Grateful Med's automatic mapping feature (GMTERMS.SYN file) will be updated to utilize optimum searching techniques.

3. New Publication Types will be added to the list you see on the PUBL TYPE F10 display.

## Will this update program work with Version 5.0?

No. The update program will only work for Version 6.0. Users of earlier versions should contact the distributor, NTIS, at 1-800-553-6847 to update their address and arrange for free shipment of Version 6.0. All new shipments of Version 6.0 will come complete with the update program.

After loading it, how will I know if the update program worked?

Go to a MEDLINE Input form screen. Type "AIR" on a subject word line. Press F10. Look for the new MeSH heading, AIR BAGS in the MeSH display. If you see AIR BAGS, the update worked correctly.

## What should I do with the disks when I'm finished?

The update disks should be saved; if it becomes necessary to re-install Grateful Med, the update program will have to be run after the installation.

## What will happen if I don't install the update program?

Version 6.0 will continue to work if the update program is not run. However, users run the risk of missing references they would have otherwise found had the update program been applied. ❑

# AIDSLINE Update

AIDSLINE was rebuilt with 1993 MeSH and made available on January 20, 1993. As of that date, the file contained 76,981 citations. It is made up from the following subfiles:

- MEDLINE
- HEALTH PLANNING & ADMINISTRATION (HEALTH)
- CANCERLIT
- CATLINE
- AVLINE
- Meeting abstracts from the Fifth through Eighth International Conferences on AIDS
- Meeting abstracts from the the 90th and 91st Symposium on Nonhuman Primate Models for AIDS
- AIDS-related abstracts from the 1990 and 1991 annual meeting of the American Society for Microbiology.

This year the search strategy used to rebuild AIDSLINE (see Figure 1) was expanded to include the three disease terms which Centers for Disease Control (CDC) added to its AIDS Surveillance Case Definition in 1992. The terms PNEUMONIA, CERVIX NEOPLASMS and PULMONARY TUBERCULOSIS were added to the strategy (see Search Statement 8 in Figure 1) and combined with AIDS and HIV Text Words. In addition, the strategy was expanded to include all MeSH terms where AIDS was included in the MeSH scope note. Those terms are found in Search Statement 10.

## AIDSLINE Enhancements

A minor enhancement was added to the AIDSLINE file this year. Text Word searching is now possible in the IMPRINT field, allowing users to more easily find the publisher and place of publication for monographs.

## Future Plans

The National Library of Medicine will continue to add the meeting abstracts from the International Conference on AIDS each year. The meeting abstracts from the 1992 Symposium on Nonhuman Primate Models for AIDS and AIDS-related abstracts from the 1992 annual meeting of the American Society for Microbiology will be added in 1993. NLM also plans to enhance AIDSLINE with AIDS-related citations from BIOETHICSLINE in 1993.

## 1993 Search Strategy

The strategy outlined in Figure 1 reflects the 1993 MeSH vocabulary changes and is used to pull data from all the MEDLINE Backfiles and all the subfiles listed above. (The terms that are new for 1993 are indicated by bolding and a larger type.) In addition, there are other search strategies used in older files, specific to the vocabulary used by authors during those time periods covered, that are not reproduced here.

SS 1:
    EXPLODE HTLV VIRUSES OR EXPLODE SIMIAN RETROVIRUSES OR
    EXPLODE HTLV ANTIBODIES OR EXPLODE HTLV ANTIGENS OR
    EXPLODE HTLV INFECTIONS OR EXPLODE RECEPTORS, HIV OR
    AIDS SERODIAGNOSIS OR GENE PRODUCTS, NEF OR
    GENEPRODUCTS, REV ORGENES, NEF OR GENES, REV OR
    HIV SEROPREVALENCE OR **AIDS-RELATED OPPORTUNISTIC INFECTIONS** OR
    **HIV PROTEASE INHIBITORS**

SS 2:
    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

SS 3:
    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

SS 4:
    EXPLODE HIV LONG TERMINAL REPEAT OR HIV PROTEASE OR
    LYMPHOMA, AIDS-RELATED OR AIDS VACCINES OR
    HIV CORE PROTEIN P24 OR CD4-CD8 RATION

SS 5:
    FAIDS (TW) OR FTLV (TW) OR FELINE (TW) AND AIDS (TW) OR SRV-1 (TW) OR
    SRV-2 (TW) OR SRV-3 (TW) OR SRV-4 (TW) OR SRV-5 (TW) OR SAIDS (TW) AND
    NOT EXP ANTI-INFLAMMATORY AGENTS, STEROIDAL OR SIMIAN (TW) AND
    AIDS (TW) OR STLV (TW) OR MAIDS (TW) AND
    IMMUNOLOGIC DEFICIENCY SYNDROMES (MH)

SS 6:
    HIV (TW) OR HTLV (TW) AND III (TW) OR LYMPHADENOPATHY (TW) AND ASSOCIATED
    (TW) AND VIRUS (TW) OR AIDS (TW) AND RELATED (TW) AND COMPLEX (TW) OR LAV
    (TW) OR HUMAN (TW) AND IMMUNODEFICIENCY (TW) AND VIRUS (TW) OR HUMAN
    (TW) AND T (TW) AND CELL (TW) AND
    LYMPHOTROPIC (TW) AND VIRUS (TW) AND III (TW) OR AIDS (TW) AND
    ALL RETROVIR: (TW) OR ARV (TW) OR HUMAN (TW) AND T (TW) AND CELL (TW) AND
    LEUKEMIA (TW) AND VIRUS (TW) AND III (TW) OR HIV (TW) AND I (TW) OR
    HIV (TW) AND II (TW) OR HIV1 (TW) OR HIV2 (TW) OR HIVI (TW) OR HIVII (TW) OR
    HIV-1 (TW) OR HIV-2 (TW) OR **HIVS (TW)** OR **HIV3 (TW)** OR **HIV-3 (TW)**

SS 7:
    AIDS RES HUM RETROVIRUSES (TA) OR AIDS (TA) OR AIDS RES (TA) OR
    AIDS EDUC PREV (TA) OR J ACQUIR IMMUNE DEFIC SYNDR (TA) OR
    AIDS CLIN REV (TA) OR AIDS CARE (TA) OR INT J STD AIDS (TA)

**Figure 1 - 1993 AIDSLINE Search Strategy**

SS 8:
    GENE PRODUCTS, TAT OR GENES, TAT OR SARCOMA, KAPOSI'S OR
    EXPLODE ANTIVIRAL AGENTS OR PNEUMOCYSTIS CARINII OR
    PNEUMONIA, PNEUMOCYSTIS CARINII OR NF-KAPPA B OR
    CONTACT TRACING OR TRANSCRIPTION FACTOR, SP1 OR
    **EXPLODE CERVIX NEOPLASMS** OR
    **EXPLODE TUBERCULOSIS, PULMONARY** OR **EXPLODE PNEUMONIA** OR
    **MYCOBACTERIUM AVIUM COMPLEX** OR
    **MYCOBACTERIUM AVIUM-INTRACELLULARE INFECTION**

SS 9 :
    AIDS (TW) OR ACQUIRED (TW) AND IMMUNODEFICIENCY (TW) AND
    SYNDROME (TW) OR ACQUIRED (TW) AND IMMUNE (TW) AND
    DEFICIENCY (TW) AND SYNDROME (TW)

SS 10:
    **ANGIOMATOSIS, BACILLARY** OR **BLASTOCYSTIS INFECTIONS** OR
    **CERCOCEBUS ATYS** OR **CERCOPITHECUS AETHIOPS** OR
    **DEXTRAN SULFATE** OR **DIDANOSINE** OR **DIDEOXYADENOSINE** OR
    **DIDEOXCYTIDINE** OR **FLUCONAZOLE** OR **GANCICLOVIR** OR **HIV REV
    RESPONSIVE ELEMENT** OR **GIANT CELLS** OR **HERPESVIRUS-6, HUMAN**
    OR **HLA-DR3 ANTIGEN** OR **HLA-DR5 ANTIGEN** OR
    **IMMUNOGLOBULINS, INTRAVENOUS** OR
    **LEUKOENCEPHALOPATHY, PROGRESSIVE MULTIFOCAL** OR
    **MASON-PFIZER MONKEY VIRUS** OR **MENINGITIS CRYPTOCOCCAL** OR
    **NEUROLEUKIN** OR **NF-KAPPA B** OR **ONCOVIRUSES, TYPE D** OR
    **PENTAMIDINE** OR **PEPTIDE T** OR **RADIOIMMUNOPRECIPITATION ASSAY**
    OR **RHODOCOCCUS EQUI** OR **SLOW VIRUS DISEASES**
    OR **THYMOPENTIN** OR **TOXOPLASMOSIS, CEREBRAL** OR
    **TRANSCRIPTION FACTOR SP1** OR **TRICHOSANTHIN** OR
    **TRIMETHOPRIM-SULFAMETHOXAZOLE COMBINATION** OR
    **TRIMETREXATE** OR **T4 LYMPHOCYTES** OR **ZIDOVUDINE**

SS 11:
    8 AND 9 OR 9 AND 10

SS 12:
    ANTIGENS, CD4

SS 13 :
    12 AND 6 OR 12 AND 9

SS 14:
    1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 11 OR 13 ❏

**Figure 1 - 1993 AIDSLINE Search Strategy cont.**

# CHEMLINE and ChemID Update

For CHEMLINE and ChemID, the two chemical directory files on MEDLARS, the year 1992 saw modest activity compared to the flurry of the reformatting and enhancement efforts that marked the previous few years. Both files were rebuilt from the ground up once during the year - CHEMLINE in June and ChemID in February.

Subsequent to its regeneration, CHEMLINE was updated three times with new chemical records that had been added to various MEDLARS or TOXNET databases. In all, these activities resulted in the growth of CHEMLINE to nearly 1.15 million substance records, a 5% increase for the year. At the time of the regeneration, a new data field called Component Registry Number (RC) was added for the first time to over 20,000 mixture records. This new data field affords the user easy access to the Registry Numbers of components from a mixture record. The upcoming regeneration scheduled for April 1993 will see further enhancements to the RC field by including additional mixture records well beyond the current 20,000.

When ChemID was regenerated, the number of its records grew to 268,000 from about 183,000. This dramatic expansion was the culmination of an "evolutionary" process by which substance records are being added to ChemID as more chemical identification data become available. Chemical identifiers such as the Registry Number, systematic name, synonyms, and molecular formula are continually being collected from various sources for most of the substances that are cited in NLM databases but whose records are not yet found in ChemID. This effort will continue in the coming year. When ChemID is regenerated early this Spring, state regulatory lists will be put back into SUPERLIST. (More detailed information on SUPERLIST is available on pages 25-32 of the July-August 1990 *Technical Bulletin*.) They were removed at the time of the last regeneration.

In the waning days of 1992, a useful enhancement was made to the ChemID display format. With the growing number of file and list locators, the old way of repeating the LO (Locator) or LLO (List Locator) field stacking one after another for each locator had to be abandoned. Now the LO and LLO fields automatically print in a "compressed" format no matter what print option is entered. Thus, in the new format shown for the benzene record, printed in Figure 1 by the "print full" command, all data fields, except the LO and LLO fields, are displayed in the usual "print full" format. In the LO and LLO fields, all file locators and list locators are displayed in a continuous line separated by semicolons. The LO field in CHEMLINE, however, still prints the "old" way. Because of some constraints imposed by the formatting already in effect, the same change in CHEMLINE must wait until the next version of Grateful Med is ready.

```
SS 1 /C?
USER:
file chemid
PROG:
YOU ARE NOW CONNECTED TO THE CHEMID (NON-ROYALTY) FILE.

SS 1 /C?
USER:
benzene
PROG:
SS (1) PSTG (1)
```

**Figure 1 - New Compressed Format in ChemID of the LO and LLO Fields**

```
SS 2 /C?
USER:
print full
PROG:


1
RN -    71-43-2
ON -    54682-86-9  [TSCAINV]
MF -    C6-H6  [EINECS:HSDB:RTECS:TSCAINV]
N1 -    Benzene (8CI)(9CI)  [CCRIS:RTECS:TSCAINV]
N1 -    Benzene, pure  [EINECS]
NM -    Benzene  [HSDB:MESH]
NM -    [LIST] Benzene  [CGB:IARC:NTPA:NTPT:PAFA:PEL:REL:RQ:S110:TLV:TRI:WHMI]
NM -    [LIST] Benzene (including benzene from gasoline)  [CAA1]
NM -    [LIST] Benzene [UN1114]  [Flammable liquid]  [DOT]
NM -    [LIST] Benzol [UN1114]  [Flammable liquid]  [DOT]
NM -    [LIST] RCRA waste no. U019  [RQ]
NM -    [LIST] UN1114  [DOT]
SY -    (6)Annulene  [HSDB:RTECS]
SY -    AI3-00808  [HSDB]
SY -    Benceno [Spanish]  [NLM]
SY -    Benzeen [Dutch]  [HSDB:RTECS]
SY -    Benzen [Polish]  [NLM]
SY -    Benzen [Polish]  [HSDB:RTECS]
SY -    Benzene  [NLM]

         .
         .
         .

SY -    Polystream  [HSDB]
SY -    Pyrobenzol  [HSDB:RTECS]
SY -    Pyrobenzole  [HSDB:RTECS]
SY -    RCRA WASTE NUMBER U019  [RTECS]
MH -    Benzene
CC -    Agricultural Chemical  [RTECS]
CC -    Drug / Therapeutic Agent  [RTECS]
CC -    Mutation data  [RTECS]
CC -    Out-dated pesticide  [RTECS]
CC -    Reproductive Effect  [RTECS]
CC -    Skin / Eye Irritant  [RTECS]
CC -    Tumor data  [RTECS]
NO -    Cyclohexatriene. Toxic, volatile, flammable liquid hydrocarbon biproduct of coal   distillation. It
         is used as an industrial solvent in paints, varnishes, laquer thinners, gasoline, etc. Benzene
         causes CNS damage acutely and bone marrow damage chronically and is carcinogenic; it was
         formerly used as parasiticide.  [MESH]
☞ LLO -  CAA1 ; CGB ; DOT ; IARC ; NTPA ; NTPT ; PAFA ; PEL ; REL ; RQ ; S110 ; TLV ; TRI ; WHMI
☞ LO -   TOXLINE ; TOXLIT ; TOXLINE65 ; TOXLIT65 ; MEDLINE ; MED86 ; MED83 ; MED80 ; MED77;
         MESH ; CANCERLIT ; AIDSLINE ; RTECS ; EMICBACK ; ETICBACK ; GENETOX ; DART ;
         IRIS ; TRI87 ; CCRIS ; HSDB ; TSCAINV ; EINECS ; TRI89 ; SUPERLIST ; TRI88 ❑
```

**Figure 1 - New Compressed Format in ChemID of the LO and LLO Fields cont.**

# DIRLINE Update

### DIRLINE File Now Includes DBIR

As many NLM users know, the Directory of Biotechnology Information Resources (DBIR) was available as a separate database on TOXNET, as well as being a subfile of DIRLINE. At the end of January 1993, DBIR was no longer available through TOXNET. DBIR's permanent home is now as a subfile of DIRLINE. Those searchers used to searching DBIR via TOXNET can still get all the information they need from DIRLINE. In DIRLINE, to limit your search to records from DBIR, include DBIR (si) in your search strategy. However, if you are interested in biotechnology resources, you may not find it necessary to limit your search to the DBIR subfile, because several other DIRLINE subfiles may contain relevant resources.

DBIR is accessible through Grateful Med Version 6.0 for the IBM. To search DBIR, first select Other from the Action Screen. Then select DIRLINE from the list of available databases. After completing the DIRLINE Input Form screen and before searching DIRLINE, you are asked if you wish to limit your search to DBIR. Answer yes to this question if you wish to search only the DBIR subfile of DIRLINE.

DBIR contains information on over 1,900 organizations, databases, networks, nomenclature committees, culture collections, and publications related to biotechnology. Please contact the DBIR representative at 301-496-3147 if you need additional information.

### New Print Command

In order to make DIRLINE print commands more consistent with other ELHILL files, PRINT DES (description) has been changed to PRINT AR. PRINT DES is no longer a valid print parameter in DIRLINE. The PRINT AR (or PRT AR) command in DIRLINE will print the following fields: Secondary Source ID (SI), Name (NA), Acronym (AC), Address (AD), Institution Contacts (IC), Telephone Number (TEL), Abstract (AB) and Services And Facilities (SAF), if there is some value present in each field. Not every field is present in every record. See Figure 1 for a sample retrieval shown with the PRINT AR command; this record has no AC or SAF fields, indicating that there is no acronym or services and facilities information for this institution.

```
SS 1 /C?
USER:
file dir

PROG:
YOU ARE NOW CONNECTED TO THE DIRLINE FILE. DUE TO THE FREQUENCY OF CHANGE,
ORGANIZATIONAL ADDRESSES AND TELEPHONE NUMBERS LISTED ARE NOT GUARANTEED TO
BE CURRENT.

SS 1 /C?
USER:
(kw) chiropractic

PROG:
SS (1) PSTG (7)
```

**Figure 1 - PRINT AR in DIRLINE**

```
SS 2 /C?
USER:
prt 1 ar

PROG:


1
SI  -   NLM/25574
NA  -   Palmer College of Chiropractic
NA  -   David D. Palmer health Sciences Library
AD  -   1000 Brady St.
AD  -   Davenport, IA 52803
IC  -   Barbara A. Schmeichen
TEL -   (319) 326-9641
TEL -   (800) 722-2486
TEL -   (319) 326-9897
AB  -   INTRODUCTION:  Palmer Library has a major collection in the areas of Chiropractic,
        Alternative Medicine, Osteopathy and related biomedical literature including orthopedics,
        neurology, physical therapy, sports medicine and general medicine.  The holdings include
        935 current journal titles, approximately 2000 journal titles in all.  There are 28,000 books  in the
        collection and 4,000 audiovisuals.  The Archives house a major collection of chiropractic and
        alternative medicine materials.  A current collection in the area of worker's compensation is being
        developed. PUBLICATIONS:  The NEXUS, a current awareness biweekly bibliographic listing of
        biomedical journal articles in Palmer's collection that are relevant to the field of chiropractic; a list of
        texts used by chiropractic colleges. INFO SERVICES:  A nationwide service to any health care
        provider or lay   person includes manual searches of the chiropractic literature accessing the Index
        to Chiropractic Literature, computer searches using MEDLARS, DIALOG or BRS, p h o t o c o p y
        services, consultation in the searching of Grateful Med.  These services are all available for a fee.
        Audiovisuals and books may be borrowed through local libraries only.  On site use is welcome.
        Archives are open to scholars for a fee. ❑
```

**Figure 1 - PRINT AR in DIRLINE cont.**

# MeSH/MARC Update

In 1988, NLM announced the availability of MeSH (Medical Subject Headings) in the USMARC Format for Authority Data. (USMARC is an acronym for United States Machine Readable Catalog.) In the intervening three years the number of licensees for tapes of the MeSH/MARC records has grown rapidly. Among the NLM databases available under license, MeSH/MARC is now second only to MEDLINE in the number of subscribers. Changes have occurred in the internal MeSH vocabulary file and in the USMARC authority format since the description of the initial distribution of the 1989 edition of MeSH appeared in the June 1988 *Technical Bulletin*. In addition, library systems offices, vendors and other subscribers to the MeSH/MARC file have provided feedback and suggestions on the format.

The contents of the MeSH/MARC file and the MeSH records as converted to the USMARC authority format are reviewed here, followed by a description of recent changes in the MeSH record conversion for the 1993 MeSH file available to subscribers in February.

## Content of the MeSH/MARC File

The MeSH/MARC file contains authority records for all descriptor and subheading records in MeSH except the Supplementary Chemical Records (additional records for chemicals that have not yet been elevated to full subject heading status) and the Publication Types. Indexing check tags such as 'Female' and 'Animal' are converted, as well as 'non-MeSH' headings (terms that are not used in indexing but are necessary to display hierarchically related groups in the Tree Structures). The topical, form, language and geographic subheadings used in indexing and cataloging are converted. In addition, the MeSH/MARC version of the file contains an authority record for each allowable combination of a main heading with a topical subheading. These

main heading/subheading authority records represent combinations that are valid, even if they have never been used in combination in NLM's indexing or cataloging records. See Figure 1 for sample records.

## Descriptor Records

The MeSH/MARC record for a main heading descriptor includes the established form of the heading, its tree number(s), the cross-references that print in the MeSH publications and references from other variant forms of the descriptor that are not displayed in the publication, the 'see-related' references, the MeSH scope note, history note, and annotations when available.

## Subheading Records

The subheading records contain an indication of the type of subheading (topical, form, language or geographic), the established form of the subheading, cross references to the valid form, scope notes and history notes when available. The search abbreviations for topical subheadings are included in the MeSH/MARC record as cross references to the full forms, e.g., SU appears in a MARC tag *450* (*See From Tracing—Topical Term*) in the record for the subheading 'surgery'. The abbreviation is frequently the only cross reference found in the records for topical subheadings. The authority record for each topical subheading also contains the MeSH tree nodes of categories of descriptors that may be modified by that subheading.

## Records of Allowable Descriptor/Topical Subheading Combinations

The records for the allowable combinations of main headings and topical subheadings are identified by the MARC tag *001* (*Control Number*) which contains a record identifier created by combining the Unique Identifier of the descriptor record and the Unique

Identifier of the subheading record. There are no tree numbers, cross references, scope notes or annotations in these records because they do not exist in this form in NLM's MeSH file, but are created for the MARC output by automated routines that interpret which topical subheadings are allowed with each main heading. No combination records are created for the other types of subheadings — form, language and geographic.

**DESCRIPTOR RECORD**

| | | |
|---|---|---|
| Leader | | 00466nzbbb2200143nbb4500 |
| 001 | | D014781 |
| 008 | | 860418bnbancnnbabnbbbbbbbbbb||banabbbb|b |
| 040 | bb | $aDNLM$cDNLM |
| 072 | bb | $aA1.$x960 |
| 150 | b0 | $aViscera |
| 360 | bb | $iconsider also terms at$xSPLANCHN- |
| 450 | b0 | $wnnna$aVisceras |
| 667 | bb | $aGEN & unspecified only: prefer specific organ term |
| 680 | bb | $iAny of the large interior organs in any one of the three great cavities of the body, especially in the abdomen. |
| 688 | bb | $a87 |

**TOPICAL SUBHEADING RECORD**

| | | |
|---|---|---|
| Leader | | 00896nzbbb2200131nbb4500 |
| 001 | | Q000382 |
| 008 | | 731227bnbdncnnbababbbbbbbbbbb||banabbbb|b |
| 040 | bb | $aDNLM$cDNLM |
| 073 | bb | $aA1$aA2$aA3$aA4$aA5$aA6$aA7$aA8$aA9$aA10$aA11$aA12$aA13$aA14$aA15$aA16$aB1$aB2$aB6$aC1$aC2$aC3$aC4$aC5$aC6$aC7$aC8$aC9$aC10$aC11$aC12$aC13$aC14$aC15$aC16$aC17$aC18$aC19$aC20$aC21$aC22$aC23$aF3 |
| 150 | b0 | $amicrobiology |
| 450 | b0 | $aMI |
| 667 | bb | $asubhead only; for bacteria, rickettsia, viruses, fungi; see also /parasitology; for ability of organisms to cause disease use /pathogenicity; see MeSH scope note in Introduction; indexing policy: Manual 19.8.45; DF: /microbiol or /MI |
| 680 | bb | $iUsed with organs, animals and higher plants and with diseases for microbiologic studies. For parasites, "parasitology" is used. |
| 688 | bb | $a67; used with Category A & C 1967-74; A, B1-2, B6, C & F3 1975-86; A, B1-2, B6, C, F3 & INFANT, NEWBORN+; A, B1-2, B6, C & F3 1990 forward |

**Figure 1 - Sample MeSH/MARC Records**

```
COMBINATION RECORD

Leader        00162nzbbb2200063nbb4500
001           D014781Q000382
008           870101bnbancnnbabnbbbbbbbbbbb|nbanabbbb|b
040  bb       $aDNLM$cDNLM
150  b0       $aViscera$xmicrobiology^Z
```

**Figure 1 - Sample MeSH/MARC Records cont.**

## Recent Changes to the MeSH/MARC Conversion

The following changes have been made to the conversion program that creates the MeSH/MARC file. These changes, which improve the accuracy of the MARC coding and provide additional content to the MeSH/MARC records, are effective with the 1993 MeSH/MARC tapes.

(Note that in the examples, + is used for the fill character, b is used for blank, and $ is used for the subfield delimiter.)

1. The system-supplied value of *008/29* (*Reference Evaluation*) for descriptor and subdivision records was changed from n (not applicable) to + (fill character).

2. The second indicator (code source) of *072* (*Subject Category Code*) was changed from 7 (code source specified in subfield 2) to b (no information provided) and the creation of subfield 2 (code source) was eliminated.

3. The second indicator (nonfiling characters) of MARC tags *150, 151, 450, 451, 550, 551* (headings and tracings) was changed from the present algorithm to 0.

4. The MeSH field CX (Consider also cross reference) appears in MARC tag *360* (*Complex See Also Reference-Subject*). The consider also references refer the user to groups of related headings and may be very useful in catalog displays.

Examples:

CX            consider also terms at HYPOPHYS-
    converts to
360 bb       $iconsider also terms at $aHYPOPHYS-

CX            consider also terms at NERVE and NEUR-
    converts to
360 bb       $iconsider also terms at $aNERVE $aNEUR-

CX            consider also terms at CANCER, CARCINO-, ONCO-, and TUMOR
    converts to
360 bb       $iconsider also terms at $aCANCER $aCARCINO- $aONCO- $aTUMOR

5. For certain types of cross-references in the BX (Backward Cross Reference) field of the MeSH record, the bytes of subfield *w* (*Control subfield*) in MARC tags *450* and *451* (*See From Tracings*) are coded 'nnna' to indicate that non-printing references from the MeSH record are not displayed. The types of cross references identified by control subfield w include forms that differ in minor ways from the established heading, such as plurals or permuted and inverted forms, rather than true variant forms.

6. The MeSH Annotation (AN) field, containing guidance in the use of the established heading for indexers and catalogers, has been moved from MARC tag *680* (*Public General Note*) to MARC tag *667* (*Nonpublic General Note*). This change distinguishes the annotations from other notes and permits users to restrict their display in the public access catalog.

7. The MeSH History Note (HN) has been added as MARC tag *688* (*Application History Note*).

**How to Lease MeSH/MARC**

The MeSH/MARC data are available for lease directly from the National Library of Medicine. A sample tape with documentation, which is highly recommended, costs $50 ($62.50 for non-U.S. requesters). The full data cost $1,000/year (for both U.S. and non-U.S. requesters). Please write to the address below for a copy of the License Packet which also includes instructions of how to order a sample tape.

Mr. Sheldon Kotzin
Chief, Bibliographic Services Division
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894
FAX: 301-496-0822 ❑

# PDQ and CANCERLIT Update

## Enhancements to PDQ

Significant changes have taken place in the scope and content of the PDQ database, which are reflected in the main menu and many of the submenus with the February 1993 update.

When PDQ was originally implemented almost a decade ago, the content within the database focused primarily on treatment issues. The cancer information file, the majority of the protocols, and the directory files provided information that was most helpful in assessing treatment options for a patient. The PDQ Editorial Board which created and updated the statements in the cancer information file was composed almost entirely of physicians active in cancer treatment.

Over the past several years, PDQ has gradually expanded from its original focus on treatment to include information on supportive care issues, cancer screening, and prevention. Additional Editorial Boards have been appointed to write and update information in these new areas, including the Screening and Prevention Board and the Supportive Care Board.

The changes with the February 1993 update have facilitated searching by cancer treatment, supportive care, and cancer screening topics. The Protocol file allows specific searching by the type of protocol (treatment, supportive care, and screening/ prevention). Published results of various protocols will be available in 1993. Also, searching for the Directory information has been enhanced by specific menus for treatment organizations, screening facilities and informational/supportive care organizations.

The new main menu is more straightforward and allows users to find appropriate information after first making a selection for treatment, supportive care, or screening/prevention.

---

**Main Menu**

| | |
|---|---|
| 1 Information about PDQ | 5 Screening |
| 2 PDQ News | 6 Directories |
| 3 Treatment | 7 Protocols |
| 4 Supportive Care | 8 CANCERLIT Search Strategies |

9 Exit PDQ

---

Previously, all clinical trials were searchable together under the general heading of Clinical Trials, regardless of whether they were treatment, supportive care, or screening/prevention studies.

Because these protocols are indexed differently, depending on their type, they will be separated into different groups with submenus appropriate to that type. Below is the new submenu for protocols.

---

**Protocols**
1 Design of clinical trials
2 Treatment clinical trials
3 Treatment standard protocols
4 Supportive care clinical trials
5 Screening/prevention clinical trials

---

More detailed information is available in the PDQ News and on the CancerFax (dial 301-402-5874 from your fax telephone) or CancerNet (on Internet at Cancernet@icicb.nci.nih.gov.). A supplement to the PDQ User Guide will be mailed to all current owners of the User Guide in early 1993.

## CANCERLIT Changes

A new data element, International Standard Book Number (ISBN) will be added to all new relevant entries beginning in 1993. The ISBN is stored using the numerals and hyphens as they appear on the document. It is searched with the two-letter mnemonic BN. Below is an example of a hypothetical ISBN.

0-123-45678-9

Also, beginning in 1993, CANCERLIT will no longer capitalize all characters in the Title (TI) and Transliterated title (TT) fields. Many searchers capture citation information from the databases to produce bibliographies for papers. Most databases, including MEDLINE, utilize upper and lower case in the titles. CANCERLIT will follow the same rules of capitalization as MEDLINE in 1993. Unfortunately, it will be impossible to make global changes retrospectively to the titles, due to the large number of acronyms and abbreviations that must remain capitalized in pre-1993 entries. ❑

# Changes in Subject Analysis Practice for Audiovisual Materials

In order to improve retrieval of both print and nonprint materials while using the same search strategy, subject analysis and classification practices for nonprint materials have been brought into conformance with the cataloging practices followed for print materials wherever possible. Effective with the implementation of the 1993 MeSH vocabulary in December 1992, cataloging records for audiovisuals and computer software in the AVLINE database will reflect the policy changes outlined below. Older records are not being changed to conform to current practices.

## Use of Table G Classification Numbers

Table G classification and cutter numbers are being assigned to audiovisual items having a geographic emphasis, following the same guidelines as those applied to print items. (See the National Library of Medicine Classification 4th ed., rev., 1981, p. vii and p. xxxv-xlii for an explanation of the use of Table G, and a list of Table G numbers.) Previously Table G call numbers were not used for audiovisual items, even though geographic subheadings were applied.

Examples:

Classification for a videocassette on health insurance in the United States

Previous Practice:
Call no.: W 275 VC no.5 1991

Current Practice:
Call no.: W 275 **AA1** VC no.5 1993

Classification for a videocassette on the history of psychiatric hospitals in Great Britain

Previous Practice:
Call no.: WM 11.1 VC no.1 1988

Current Practice:
Call no.: WM **11 FA1** VC no.1 1993

## Use of Form Subheading "Congresses"

Policy for the use of the form subheading "congresses" has been made uniform for all media formats cataloged and the appropriate double form subheading, consisting of the form "congresses" followed by the specific media type (e.g., congresses - audiocassettes; congresses - videocassettes) will be applied, as appropriate, to nonprint works consisting of four or more conference presentations. Previously, the form subheading "congresses" was used only for audiovisual items which consisted of the complete proceedings of a conference. The policy is now consistent with that for print materials where the form subheading "congresses" is used for partial as well as complete proceedings.

## Use of Form Subheading and Form Classification for "Atlases"

The form subheading "atlases" followed by the specific media type (e.g., atlases - videodiscs; atlases -slides) is being applied when appropriate for collections of illustrative frames, charts, tables, etc., in a nonprint format. The classification number for atlases (generally 17) is assigned from the appropriate NLM classification schedule (e.g., a slide atlas on breast neoplasms is classed in WP 17). ❑

# SERIALS UPDATE

## INDEXED TITLES UPDATED, NOVEMBER-DECEMBER 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, NOVEMBER-DECEMBER 1992

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

IM    BIO-MEDICAL MATERIALS AND ENGINEERING
BIOMED MATER ENG
1,1991—
PERGAMON
NEW YORK NY       UNITED STATES
INDEXING BEGAN WITH V1N1,1991.
W1 BI854X         0959-2989
SR0068289          JC: BNH

BTC  BIOTECHNOLOGY FOCUS
BIOTECHNOL FOCUS
1,1988—
HANSER PUBLISHERS
MUNICH            GERMANY
TRANSLATION OF: JAHRBUCH BIOTECHNOLOGIE.
INDEXING BEGAN WITH V1,1988.
W1 JA168          0935-1043
SR0065482          JC: BNF

IM    BIOTECHNOLOGY THERAPEUTICS
BIOTECHNOL THER
1,1989/90—
MARCEL DEKKER
NEW YORK NY       UNITED STATES
INDEXING BEGAN WITH V1N1,1989-90.
W1 BI9185         0898-2848
SR0064627          JC: BNI

IM    CANCER EPIDEMIOLOGY, BIOMARKERS AND
PREVENTION
CANCER EPIDEMIOL BIOMARKERS PREV
1N1,NOV/DEC 1991—
AMERICAN ASSOCIATION FOR CANCER
RESEARCH
PHILADELPHIA PA      UNITED STATES
INDEXING BEGAN WITH V1N1,NOV-DEC 1991.
W1 CA679PK        1055-9965
SR0071522          JC: BNJ
WAVERLY PRESS INC.,428 E PRESTON ST,
BALTIMORE MD 21202

IM    CELLULAR AND MOLECULAR BIOLOGY
CELL MOL BIOL (NOISY-LE-GRAND)
38N5/6,1992—
R. WEGMANN
NOISY-LE-GRAND      FRANCE
INDEXING BEGAN WITH V38N5-6, AUG-SEP 1992.
W1 CE1285
SR0075820          JC: BNA

INI   CLINICAL NURSING RESEARCH
CLIN NURS RES
1N1,FEB 1992—
SAGE PERIODICALS PRESS
NEWBURY PARK CA    UNITED STATES
INDEXING BEGAN WITH V1N1,FEB 1992.
W1 CL739EM        1054-7738
SR0071130          JC: BNZ

INI   CRNA
CRNA
1N1,AUG 1990—
W.B. SAUNDERS
PHILADELPHIA PA      UNITED STATES
EACH ISSUE WITH DISTINCTIVE TITLE. CRNA IS
CERTIFIED REGISTERED NURSE ANESTHETISTS.
INDEXING BEGAN WITH V3N1,FEB 1992.
W1 CR217G        1048-2687
SR0068940          JC: BN0

# TITLES SELECTED FOR INDEXING, NOVEMBER-DECEMBER 1992

BTC  CURRENT MICROBIOLOGY
CURR MICROBIOL
1,1978—
SPRINGER INTERNATIONAL
NEW YORK NY            UNITED STATES
INDEXING BEGAN WITH V25N1,JUL 1992.
W1 CU799CM            0343-8651
C56280000             JC: BMW


IM   CYTOKINES
CYTOKINES
1,1989—
KARGER
BASEL                 SWITZERLAND
INDEXING BEGAN WITH V4,1992.
W1 CY757              1013-9982
SR0063068             JC: BNL


IM   ETHNICITY AND DISEASE
ETHN DIS
1,1990—
INTERNATIONAL SOCIETY ON HYPERTENSION IN
BLACKS
ATLANTA GA            UNITED STATES
INDEXING BEGAN WITH V1N1,1990.
W1 ET44C              1049-510X
SR0069010             JC: BNM
    ETHNICITY AND DISEASE,P.O. BOX 1897,
    LAWRENCE KS 66044-8897


IM   EUROPEAN JOURNAL OF CANCER PREVENTION
EUR J CANCER PREV
1N1,OCT 1991—
RAPID COMMUNICATIONS OF OXFORD
OXFORD                ENGLAND
VOLS. ACCOMPANIED BY SUPPLS. WITH
DISTINCTIVE TITLES.  OFFICIAL JOURNAL OF
THE EUROPEAN CANCER PREVENTION
ORGANISATION (ECP).
INDEXING BEGAN WITH V1N1,OCT 1991.
W1 EU72BAM            0959-8278
SR0072363             JC: BNN


IM   FRONTIERS IN NEUROENDOCRINOLOGY
FRONT NEUROENDOCRINOL
1969—
RAVEN PRESS
NEW YORK NY            UNITED STATES
FREQUENCY VARIES: BIENNIAL, (VOL. 1),
1962-V. 10, 1988; QUARTERLY, VOL. 11,
NO. 1, 1990-
INDEXING FOR IM BEGAN AND CEASED IN
1973,AND RESUMED WITH V13N1,1992.  THE ONLY
ISSUE INDEXED IN POPLINE IS V8,1984.
W1 FR946B             0091-3022
F14280000             JC: E4M


IM   GERMAN JOURNAL OF OPHTHALMOLOGY
GER J OPHTHALMOL
1,1992—
SPRINGER INTERNATIONAL
BERLIN                GERMANY
CONTINUES IN PART: FORTSCHRITTE DER
OPHTHALMOLOGIE.  TITLE FROM COVER.
INDEXING BEGAN WITH V1N1,1992.
W1 GE457R             0941-2921
SR0072151             JC: BNO


IM   GROWTH REGULATION
GROWTH REGUL
1N1,MAR 1991—
CHURCHILL LIVINGSTONE
EDINBURGH             SCOTLAND
VOL. 1, NO. 1-  CONTAINS A BIBLIOGRAPHY
PREPARED FROM MEDLINE BY THE BRITISH
LIBRARY MEDICAL INFORMATION SERVICE.
INDEXING BEGAN WITH V1N1,MAR 1991.
W1 GR919CH            0956-523X
SR0069043             JC: BNP


INI  JOURNAL OF CASE MANAGEMENT
J CASE MANAG
1,1992—
SPRINGER PUBLISHING
NEW YORK NY            UNITED STATES
QUARTERLY.
INDEXING BEGAN WITH V1N1,SPRING 1992.
W1 JO577JK            1061-3706
SR0074655             JC: BN1


IM   JOURNAL OF NEUROSURGICAL ANESTHESIOLOGY
J NEUROSURG ANESTHESIOL
1N1,MAR 1989—
RAVEN PRESS
NEW YORK NY            UNITED STATES
V3,1991 AND V4,1992 SELECTIVELY INDEXED FOR
HSTAR.  INDEXING FOR IM BEGAN WITH
V5N1,1993.
W1 JO795CF            0898-4921
SR0062879             JC: BHU


IM   LEUKEMIA AND LYMPHOMA
LEUK LYMPHOMA
1N1,DEC 1989—
HARWOOD
CHUR                  SWITZERLAND
INDEXING BEGAN WITH V7N1,1992.
W1 LE926              1042-8194
SR0066716             JC: BNQ


IM   MOLECULAR GENETIC MEDICINE
MOL GENET MED
1,1991—
ACADEMIC PRESS
SAN DIEGO CA          UNITED STATES
INDEXING BEGAN WITH V1,1991.
W1 MO196GP            1057-2805
SR0072281             JC: BNR

## TITLES SELECTED FOR INDEXING, NOVEMBER-DECEMBER 1992

IM   NATIONAL MEDICAL JOURNAL OF INDIA
     NATL MED J INDIA
     1,1988—
     OXFORD UNIVERSITY PRESS
     NEW DELHI                INDIA
     CALLED ALSO: NMJI.
     INDEXING BEGAN WITH V5N1, JAN-FEB 1992.
     W1 NA526                0970-258X
     SR0060884               JC: BNT

IM   NEUROCHEMISTRY INTERNATIONAL
     NEUROCHEM INT
     1,1980—
     PERGAMON PRESS
     OXFORD                  ENGLAND
     SOME NUMBERS CALLED SPECIAL ISSUE.
     INDEXING BEGAN WITH V20N1, JAN 1992.
     W1 NE3237               0197-0186
     N12530000              JC: BNU

INI  NURSE PRACTITIONER FORUM
     NURSE PRACT FORUM
     1N1,JUN 1990—
     W.B. SAUNDERS
     PHILADELPHIA PA         UNITED STATES
     INDEXING BEGAN WITH V2N1,1991.
     W1 NU555L               1045-5485
     SR0068937               JC: BMC

INI  NURSING QUALITY CONNECTION
     NURS QUAL CONNECT
     JUL/AUG 1991—
     MOSBY-YEAR BOOK
     ST. LOUIS MO            UNITED STATES
     ISSUES FOR JAN./FEB. 1992-   ARE ALSO
     NUMBERED V. 1, ISSUE 4-
     INDEXING BEGAN WITH V2N1,JUL/AUG 1992.
     W1 NU657W               1055-6818
     SR0071906               JC: BNY

INI  NURSING STAFF DEVELOPMENT INSIDER
     NURS STAFF DEV INSID
     1,1992—
     MOSBY-YEAR BOOK
     CHICAGO IL              UNITED STATES
     INDEXING BEGAN WITH V1N1,JAN-FEB 1992.
     W1 NU758E               1057-8323
     SR0072578               JC: BN6

IM   PCR METHODS AND APPLICATIONS
     PCR METHODS APPL
     1,1991—
     COLD SPRING HARBOR LABORATORY PRESS
     COLD SPRING             UNITED STATES
     HARBOR NY
     INDEXING BEGAN WITH V1N1,AUG 1991.
     W1 PC11                 1054-9803
     SR0070718               JC: BNV

BTC  PLANTA
     PLANTA
     1,1925—
     SPRINGER VERLAG
     BERLIN                  GERMANY
     VOL 1 NO 1-2 AS ARCHIV FUR
     WISSENSCHAFTLICHE BOTANIK. PUBLISHED AS
     ZEITSCHRIFT FUR WISSENSCHAFTLICHE
     BIOLOGIE:  ABT E.  SUSPENDED 1945-46.  VOL 120
     COMPLETE IN 3 ISSUES.
     INDEXING BEGAN WITH V188N1,AUG 1992.
     W1 PL105U               0032-0935
     P16580000              JC: BNG
        SPRINGER VERLAG, HEIDELBERGER PLATZ 3,
        D-1000 BERLIN 33 WEST GERMANY

IM   PROTEIN SCIENCE
     PROTEIN SCI
     1,1992—
     CAMBRIDGE UNIVERSITY PRESS
     NEW YORK NY             UNITED STATES
     ISSUES FOR JAN. 1992-   ACCOMPANIED BY
     SUPPLEMENTS: DISKETTE APPENDIX (ABSTRACT
     AND BIBLIOGRAPHY FILES FOR EACH ARTICLE)
     FOR MACINTOSH, DS/DD.
     INDEXING BEGAN WITH V1N1,JAN 1992.
     W1 PR788J               0961-8368
     SR0070820               JC: BNW
        CAMBRIDGE UNIVERSITY PRESS,40 WEST 20TH
        STREET,NEW YORK NY 10114-0495

IM   RECEPTOR
     RECEPTOR
     1,1990/91—
     HUMANA PRESS
     CIFTON NJ               UNITED STATES
     INDEXING BEGAN WITH V1N1-2,WINTER 1990-1991.
     W1 RE107KG              1052-8040
     SR0066988               JC: BNX
        HUMANA PRESS,BOX 2148,CLIFTON NJ 07015

INI  REFLECTIONS
     REFLECTIONS
     1,1975—
     CENTER NURSING PRESS
     INDIANAPOLIS  IN        UNITED STATES
     INDEXING BEGAN WITH V16N1,1991.
     IN PROCESS              0885-8144
     S25375000              JC: BMB

## TITLE CHANGES, NOVEMBER-DECEMBER 1992

IM    ABDOMINAL IMAGING
      ABDOM IMAGING
      18,1993—
      SPRINGER-VERLAG
      NEW YORK NY          UNITED STATES
      FORMED BY THE UNION OF: GASTROINTESTINAL
      RADIOLOGY, AND: UROLOGIC RADIOLOGY, AND
      CONTINUES THE NUMBERING OF THE FORMER.
      INDEXING BEGAN WITH V18N1, 1993.
      ON ORDER
      SR0075712            JC: BMT


IM    ACTA OPHTHALMOLOGICA. SUPPLEMENT
      ACTA OPHTHALMOL SUPPL
      170,1985—
      SCRIPTOR
      COPENHAGEN          DENMARK
      SUPPLEMENT TO: ACTA OPHTHALMOLOGICA.
      CONTINUES: ACTA OPHTHALMOLOGICA.
      SUPPLEMENTUM.
      INDEXING BEGAN WITH 170,1985.
      W1 AC8812
      SR0075807            JC: BM0


IM    ADDICTION
      ADDICTION
      88,1993—
      CARFAX PUBLISHING
      ABINGDON            ENGLAND
      CONTINUES: BRITISH JOURNAL OF ADDICTION.
      INDEXING BEGAN WITH V88N1,1993.
      ON ORDER           0965-2140
      SR0075833            JC: BM3


HLI   AOHA PROGRESS
      AOHA PROG
      1N1,AUG 1992—
      AMERICAN OSTEOPATHIC HOSPITAL
      ASSOCIATION
      WASHINGTON DC      UNITED STATES
      CONTINUES: AOHA.
      INDEXING BEGAN WITH V1N1,1992.
      W1 AO616           1058-6385
      SR0075624            JC: BMM


IM    BRITISH JOURNAL OF BIOMEDICAL SCIENCE
      BR J BIOMED SCI
      1993—
      BLACKWELL SCIENTIFIC
      OXFORD             ENGLAND
      CONTINUES: MEDICAL LABORATORY SCIENCES.
      ON ORDER
      SR0075465            JC: BMA


IM    BULLETIN / HOSPITAL FOR JOINT DISEASES
      BULL HOSP JT DIS
      52N1,SUMMER 1992—
      HOSPITAL FOR JOINT DISEASES
      NEW YORK NY          UNITED STATES
      CONTINUES: BULLETIN OF THE HOSPITAL FOR
      JOINT DISEASES ORTHOPAEDIC INSTITUTE.
      INDEXING BEGAN WITH V52N1,1992.
      W1 BU478HCGD        0018-5647
      SR0075646            JC: BML


IM    DISKUSSIONSFORUM MEDIZINISCHE ETHIK
      DISKUSSIONSFORUM MED ETHIK
      1990 N1—
      BLACKWELL MVZ
      WIEN               AUSTRIA
      AT HEAD OF TITLE: WMW.  ISSUED AS A SECTION
      IN SOME ISSUES OF: WIENER MEDIZINISCHE
      WOCHENSCHRIFT, 140. JAHRG., HEFT 10/11 FOR
      15. JUNI 1990-   . NUMBERING BEGINS AGAIN
      EACH YEAR WITH NR.1.
      INDEXING BEGAN WITH N1,1990.
      W1 WI336
      SR0075821            JC: BM1


IM    DOKLADY AKADEMII NAUK
      DOKL AKAD NAUK
      322N4,1992—
      IZDATELSTVO NAUKA
      MOSKVA             RUSSIA
      THREE TIMES A MONTH.
      CONTINUES: DOKLADY AKADEMII NAUK SSSR.
      INDEXING BEGAN WITH V322N4,1992.
      W1 DO637           0869-5652
      SR0076138            JC: BN8


IM    EKSPERIMENTALNAIA I KLINICHESKAIA
      FARMAKOLOGIIA
      EKSP KLIN FARMAKOL
      55N1,JAN/FEB 1992—
      IZO-VO MEDITSINA
      MOSKVA             RUSSIA
      CONTINUES: FARMAKOLOGIIA I TOKSIKOLOGIIA.
      INDEXING BEGAN WITH V55N1,1991.
      W1 EK2837          0869-2092
      SR0075667            JC: BMO


IM    IZVESTIIA AKADEMII NAUK.  SERIIA
      BIOLOGICHESKAIA
      IZV AKAD NAUK SER BIOL
      N2,MAR/APR 1992—
      NAUKA
      MOSKVA             RUSSIA
      BIMONTHLY.  OTHER TITLE: IZVESTIIA
      ROSSIISKOI AKADEMII NAUK. SERIIA
      BIOLOGICHESKAIA.  OTHER TITLE: PROCEEDINGS
      RUSSIAN ACADEMY OF SCIENCES.  SERIES
      BIOLOGICAL.
      CONTINUES: IZVESTIIA AKADEMII NAUK SSSR.
      SERIIA BIOLOGICHESKAIA.
      INDEXING BEGAN WITH N2,MAR-APR 1992.
      W1 IZ6515
      SR0074387            JC: BNE

## TITLE CHANGES, NOVEMBER-DECEMBER 1992

HLI   JOURNAL OF HEALTHCARE RISK MANAGEMENT
      J HEALTHC RISK MANAG
      12N4,FALL 1992—
      AMERICAN SOCIETY FOR HEALTHCARE RISK
      MANAGEMENT
      CHICAGO                UNITED STATES
      THE JOURNAL OF THE AMERICAN SOCIETY FOR
      HEALTHCARE RISK MANAGEMENT.
      CONTINUES: PERSPECTIVES IN HEALTHCARE
      RISK MANAGEMENT.
      INDEXING BEGAN WITH V12N4,FALL 1992.
      ON ORDER
      SR0075880              JC: BM7


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    PHYSIOLOGICAL MEASUREMENT
      PHYSIOL MEAS
      14N1,FEB 1993—
      INSTITUTE OF PHYSICAL SCIENCES IN MEDICINE
      YORK                   ENGLAND
      CONTINUES: CLINICAL PHYSICS AND
      PHYSIOLOGICAL MEASUREMENT.
      INDEXING BEGAN WITH V14N1,FEB 1993.
      ON ORDER
      SR0076039              JC: BN5


IM    POLISH JOURNAL OF OCCUPATIONAL
      MEDICINE AND ENVIRONMENTAL HEALTH
      POL J OCCUP MED ENVIRON HEALTH
      4,1991—
      INSTITUTE OF OCCUPATIONAL MEDICINE, LODZ
      AND THE POLISH ASSOCIATION OF
      OCCUPATIONAL MEDICINE
      LODZ                   POLAND
      CONTINUES: POLISH JOURNAL OF
      OCCUPATIONAL MEDICINE.
      INDEXING BEGAN WITH V4N1,1991.
      W1 PO23LG            0867-8383
      SR0075459              JC: BL7


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


HLI   SPECTRUM
      SPECTRUM
      65N3,SUMMER 1992—
      COUNCIL OF STATE GOVERNMENTS
      LEXINGTON KY           UNITED STATES
      THIS TITLE IS NOT IN THE NLM COLLECTION.
      CONTINUES: JOURNAL OF STATE GOVERNMENT,
      WHICH IS NOT IN THE NLM COLLECTION.
      INDEXING BEGAN WITH V65N3,SUMMER1992.
      AHA
      SR0076038              JC: BN3


IM    STEM CELLS
      STEM CELLS
      11,1993—
      ALPHAMED PRESS
      DAYTON OH              UNITED STATES
      CONTINUES: INTERNATIONAL JOURNAL OF CELL
      CLONING.
      INDEXING BEGAN WITH V11N1,1993.
      ON ORDER             1066-5099
      SR0076026              JC: BN2


IM    UNDERSEA AND HYPERBARIC MEDICINE
      UNDERSEA HYPERB MED
      20N1,MARCH 1993—
      UNDERSEA AND HYPERBARIC MEDICAL SOCIETY
      BETHESDA MD            UNITED STATES
      JOURNAL OF THE UNDERSEA AND HYPERBARIC
      MEDICAL SOCIETY.
      CONTINUES: UNDERSEA BIOMEDICAL RESEARCH.
      INDEXING BEGAN WITH V20N1,1993.
      ON ORDER             1066-2936
      SR0075682              JC: BMP

## TITLE CHANGES, NOVEMBER-DECEMBER 1992

IM    VESTNIK ROSSIISKOI AKADEMII MEDITSINSKIKH
NAUK
VESTN ROSS AKAD MED NAUK
N3,1992—
MEDITSINA
MOSKVA               RUSSIA
CONTINUES:  VESTNIK AKADEMII MEDITSINSKIKH
NAUK SSSR.
INDEXING BEGAN WITH N3,1992.
W1 VE844N          0002-3027
SR0075463         JC: BL9

## TITLES NO LONGER INDEXED AS OF NOVEMBER-DECEMBER 1992

IM    BULLETIN OF THE OSAKA MEDICAL COLLEGE
BULL OSAKA MED COLL
34N1/2,NOV 1988—
OSAKA MEDICAL COLLEGE
OSAKA             JAPAN
CONTINUES: BULLETIN OF THE OSAKA MEDICAL
SCHOOL.
INDEXING CEASED WITH V36N1-2,1990.
W1 BU883G         0030-0142
SR0066456         JC: AGU

IM    HANSENOLOGIA INTERNATIONALIS
HANSENOL INT
1,1976—
INSTITUTO LAURO DE SOUZA LIMA
BAURU             BRAZIL
SUPERSEDES REVISTA BRASILEIRA DE
LEPROLOGIA.  IMPRINT VARIES.
INDEXING BEGAN WITH V4N1,1979 AND CEASED
WITH V14N2,1989.
W1 HA538           0100-3283
H02080000         JC: GM8

HLI   JOURNAL OF APPLIED GERONTOLOGY
J APPL GERONTOL
1N1,JUN 1982—
SAGE PUBLICATIONS FOR THE SOUTHERN
GERONTOLOGICAL SOCIETY
NEWBURY PARK CA    UNITED STATES
CALLED ALSO: JAG.
INDEXING BEGAN WITH V8N1,MAR 1989 AND
CEASED WITH V11N4,DEC 1992.
W1 JO541G         0733-4648
SR0054332         JC: AFT

IM    MONOGRAPHIEN AUS DEM GESAMTGEBIETE DER
PSYCHIATRIE. PSYCHIATRY SERIES
MONOGR GESAMTGEB PSYCHIATR (BERLIN)
1,1970—
SPRINGER VERLAG
BERLIN           GERMANY
SUPERSEDES IN PART MONOGRAPHIEN AUS DEM
GESAMTGEBIETE DER NEUROLOGIE UND
PSYCHIATRIE
INDEXING CEASED WITH V70,1992.
W1 MO561B        0077-0671
M46080000         JC: NID

IM    MONOGRAPHS OF THE PHYSIOLOGICAL SOCIETY
MONOGR PHYSIOL SOC
N1,1953—
CAMBRIDGE UNIVERSITY PRESS
LONDON          ENGLAND
INDEXING BEGAN WITH V21,1971 AND CEASED
WITH V42,1985.
W1 MO569QW      0079-2020
M46960000         JC: NIJ

IM    NORMALE UND PATHOLOGISCHE ANATOMIE
NORM PATHOL ANAT (STUTTG)
N21,1970—
GEORG THIEME VERLAG
STUTTGART       GERMANY
CONTINUES: ZWANGLOSE ABHANDLUNGEN AUS
DEM GEBIET DER NORMALEN UND
PATHOLOGISCHEN ANATOMIE.
INDEXING CEASED WITH V52,1990.
W1 NO254T         0303-2418
N29500000         JC: O55

## TITLES NO LONGER INDEXED AS OF NOVEMBER-DECEMBER 1992

HLI   PUBLIC INTEREST
PUBLIC INTEREST
1,1965—
NATIONAL AFFAIRS INC
NEW YORK NY        UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING FOR HLI BEGAN WITH N50, WINTER
1978 AND CEASED WITH V109, FALL 1992.
INDEXING FOR POPLINE BEGAN WITH N62,WINTER
1981 AND CEASED WITH N101,FALL 1990.
AHA                0033-3557
P57760000          JC: QI8

HLI   RISK MANAGEMENT
RISK MANAGE
16N4,1969-
RISK AND INSURANCE MANAGEMENT SOCIETY
NEW YORK NY        UNITED STATES
CONTINUES: NATIONAL INSURANCE BUYER. THIS
TITLE IS NOT IN THE NLM COLLECTION.
INDEXING CEASED WITH V39N12,DEC 1992.
AHA                0035-5593
R49940000          JC: TG5

## TITLES RECATALOGED AS OF NOVEMBER-DECEMBER 1992

IM    JAPANESE JOURNAL OF GENETICS
JPN J GENET
36,1961—
GENETICS SOCIETY OF JAPAN
TOKYO            JAPAN
CONTINUES: IDENGAKU ZASSHI.
INDEXING BEGAN WITH V63N1,FEB 1988.
IN PROCESS
SR0075930          JC: AOV

FORMERLY CATALOGED AS: IDENGAKU ZASSHI
OTA: IDENGAKU ZASSHI

## CORRECTION TO A PREVIOUSLY REPORTED TITLE CHANGE

In the September-October 1992 *Technical Bulletin*, we reported that Physical Therapy was to be continued by PT as of 1993. We have now been informed that Physical Therapy will continue to be published and that PT is a new, separate publication. Both Physical Therapy and PT are published by the American Physical Therapy Association. Current bibliographic information for both titles appear below:

IM    PHYSICAL THERAPY
PHYS THER
44,1964—
AMERICAN PHYSICAL THERAPY ASSOCIATION
ALEXANDRIA VA      UNITED STATES
IMPRINT VARIES: WASHINGTON D.C., (1964-1983).
JOURNAL OF THE AMERICAN PHYSICAL THERAPY
ASSOCIATION.
CONTINUES: JOURNAL OF THE AMERICAN PHYSICAL
THERAPY ASSOCIATION.
INDEXING FOR ONLINE FILES BEGAN WITH
V45N10,OCT 1965.
W1 PH749J          0031-9023
P14100000          JC: P6W

IM    PT
1, 1993?—
AMERICAN PHYSICAL THERAPY ASSOCIATION
ALEXANDRIA VA      UNITED STATES
ON ORDER         1065-5077
SR0074557

Effective March 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 | 2.40* | 1.57* | .86* | -- | .04 | .05 |
| TOXLINE® & TOXLINE65 | 2.40 | .06 | .01 | -- | .04 | .05 |
| CHEMLINE® | 2.40** | 1.30** | .63** | -- | .04 | .05 |
| ALERT & LOAN STATUS | 2.40 | .06 | -- | -- | .04 | -- |
| All Others | 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 $0.00 per Connect Charge, $1.51 per Search Statement, and $0.85 per Online Citation Charge for TOXLIT and its Backfile, TOXLIT65.
**Includes royalty charges of $0.00 per Connect Charge, $1.24 per Search Statement, and $0.62 per Online Citation Charge for CHEMLINE.

## NLM OFFLINE CHARGES TO DOMESTIC USERS

| Pages | Per Page |
|---|---|
| MEDLINE & Other Databases | $0.30 |
| TOXLIT & TOXLIT65 | 2.25 (includes $1.95 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 | 9.83 (plus page charges; includes $8.33 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.

[2] The hourly rate is approximately $18.00.

NLM 1/93 Rev.
for Royalties

Table 1

New NLM Rates for CHEMLINE, TOXLIT, TOXLIT65

Effective March 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) |
|---|---|---|---|---|---|---|
| CHEMLINE® | 2.40* | 1.30* | .63* | – | .04 | .05 |
| TOXLIT® & TOXLIT65 | 2.40** | 1.57** | .86** | – | .04 | .05 |

\*  Includes royalty charges of $0.00 per Connect Charge, $1.24 per Search Statement, and $0.62 per Online Citation Charge
\*\* Includes royalty charges of $0.00 per Connect Charge, $1.51 per Search Statement, and $0.85 per Online Citation Charge

## OFFLINE CHARGES TO DOMESTIC USERS

| Pages | Per Page |
|---|---|
| CHEMLINE | $1.68 (includes $1.38 royalty charge) |
| TOXLIT & TOXLIT65 | $2.25 (includes $1.95 royalty charge) |

| Offsearches | Per File |
|---|---|
| All Databases | $1.00 (plus page charges) |

| Automatic SDI Searches | Per Search |
|---|---|
| TOXLIT | $9.83 (plus page charges; includes $8.33 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.

## REQUEST FOR NLM ONLINE TRAINING -- 1993 CLASSES
### (FUNDAMENTALS AND/OR SPECIALIZED MODULES)

The *Fundamentals of MEDLARS Searching* and the Specialized Modules concentrate on command language searcing 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:**

| | 1st Choice | 2nd Choice |
|---|---|---|
| AIDSLINE/AIDSTRIALS/ AIDSDRUGS (1/2 Day) | _____ | _____ |
| BIOTECHNOLOGY (1/2 Day) | _____ | _____ |
| CANCERLIT/PDQ (1/2 Day) | _____ | _____ |
| CHEM/TOX/TOXNET (2 Days) | _____ | _____ |
| MEDLINE/MeSH/HEALTH (1 Day) | _____ | _____ |
| POPLINE/BIOETHICS/ HISTLINE (1/2 Day) | _____ | _____ |
| TECHNICAL SERVICES DATABASES (1 Day) | _____ | _____ |

**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:   212/534-7042          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 <u>NOT</u> SEND PAYMENT WITH REGISTRATION FOR SPECIALIZED MODULES;
THE FEE WILL BE PAID UPON CONFIRMATION OF CLASS.
INSTRUCTIONS ON PAYMENT WILL BE SENT TO YOU.

---

# 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 permission 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 codes(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, (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:**

   ☐ ALLERGY AND IMMUNOLOGY       ☐ NUCLEAR MEDICINE            ☐ PLASTIC SURGERY
   ☐ ANESTHESIOLOGY               ☐ OBSTETRICS & GYNECOLOGY     ☐ PREVENTIVE MEDICINE
   ☐ COLON AND RECTAL SURGERY     ☐ OPHTHALMOLOGY               ☐ PSYCHIATRY AND NEUROLOGY
   ☐ DERMATOLOGY                  ☐ ORTHOPAEDIC SURGERY         ☐ RADIOLOGY
   ☐ EMERGENCY MEDICINE           ☐ OTOLARYNGOLOGY              ☐ SURGERY
   ☐ FAMILY PRACTICE              ☐ PATHOLOGY                   ☐ THORACIC SURGERY
   ☐ INTERNAL MEDICINE            ☐ PEDIATRICS                  ☐ UROLOGY
   ☐ NEUROLOGICAL SURGERY         ☐ PHYSICAL MED. AND REHABIL.  ☐ 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?**

   ☐ MS DOS                      Telecommunications via:       ☐ Local Modem
   ☐ Macintosh                   ☐ Local Area Network          ☐ Internet
   **Size of Memory (RAM), if known:**   Other: _____
   _____ bytes

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       City/site of training: _____
   (self-study or attendance at course)

# NLM AUTOMATIC SDI SERVICE REQUEST FORM

USER ID ☐☐☐☐☐☐

MAILING ADDRESS:

UP TO 50 CHARACTERS PER LINE INCLUDING SPACES

INSTITUTION/OFFICE/NAME

ADDRESS

CITY, STATE, ZIP

CONTACT PERSON

TELEPHONE NUMBER

**CHECK REQUIRED ACTION:**

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

☐ 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)*.

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

# 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

# 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

1/93

U.S. DEPARTMENT OF COMMERCE
National Technical Information Service
SPRINGFIELD, VA 22161

# NTIS ORDER FORM

☎ **TELEPHONE ORDERS**          TELEX 89-9405    Telecopier (703) 321-8547    Subscriptions: (703) 487-4630
    **Call (703) 487-4650**          (See reverse side for RUSH and EXPRESS ordering options)

- **HANDLING FEE:**  A handling fee is required for each order except for Express, Rush, Subscription, or Pickup orders.

- **SHIPPING:**    **U.S.:**  Printed reports and microfiche copies are shipped First Class Mail or equivalent.
    **FOREIGN:**  Regular service: Printed reports and microfiche copies are shipped surface mail.
    Air Mail service to Canada and Mexico: add $3 per printed report; 75¢ per microfiche copy.
    Air Mail service to all other addresses:  add $6 per printed report; 75¢ per microfiche copy.
    SUBSCRIPTIONS and standing orders are sent surface mail; contact NTIS for air mail rates.

## 1 *Address Information*

DTIC Users Code:_____  Contract No. __ __ __ __ __ __
                                                              Last six digits

**PURCHASER:**        DATE:_____

**SHIP TO** (Enter ONLY if different from purchaser):

| Last Name | First Initial |
|---|---|

Last Name _____  First Initial _____

Title _____

Company/Organization _____

Address _____

_____

City/State/ZIP _____

Attention _____

Telephone number _____

Last Name _____  First Initial _____

Title _____

Company/Organization _____

Address _____

_____

City/State/ZIP _____

Attention _____

Telephone number _____

## 2 *Method of Payment*

☐ Charge my NTIS Deposit Account __ __ __ __ __ — __

Charge my    ☐ Amer. Express  ☐ VISA  ☐ MasterCard

Account No. _____ Exp. _____

Signature: _____
              (Required to validate all orders)

☐ Check/Money order enclosed for $ _____

☐ Please bill  **ADD $7.50 per Order**  (See below for
    restrictions) †
    Purchase Order No. _____
    Employer Identification No. __ __ __ __ __ __ __ __ __

## 3 *Order Selection*      (For Computer products, see reverse)

| Enter NTIS order number(s) (Ordering by title only will delay your order) | Customer Routing †† (up to 8 digits) | QUANTITY | | UNIT PRICE | Foreign Air Mail | TOTAL PRICE |
|---|---|---|---|---|---|---|
| | | Paper Copy | Micro-fiche | | | |
| 1. | | | | | | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |
| 6. | | | | | | |
| 7. | | | | | | |

**OVER** - Order continued on reverse

...ling Service: This service is restricted to U.S. addresses for an additional
...0 per order.  Your business employer identification number plus phone
...ber of the office paying the bill are required.  A late payment charge will be
...ed to all billings more than 30 days overdue.

...ustomer Routing Code: NTIS can label each item for routing within your
...ization. If you want this service, put your routing code in this box.

...19/87

| | |
|---|---|
| SUBTOTAL From Other Side | |
| Regular Service Handling Fee per order ($3 U.S., Canada, Mexico; $4 others) | |
| Billing Fee if required ($7.50) | |
| **GRAND TOTAL** | |

# NTIS ORDER FORM - Side 2

## 3 *Order Selection (Cont.)*

**Enter the NTIS order number(s)**
(Ordering by title only will delay your order)

| | | QUANTITY | | | | |
|---|---|---|---|---|---|---|
| | Customer Routing †† | Paper Copy | Micro-fiche | UNIT PRICE | Foreign Air Mail | TOTAL PRICE |
| 8. | | | | | | |
| 9. | | | | | | |
| 10. | | | | | | |
| 11. | | | | | | |
| 12. | | | | | | |
| 13. | | | | | | |
| 14. | | | | | | |
| 15. | | | | | | |
| 16. | | | | | | |
| 17. | | | | | | |
| 18. | | | | | | |
| 19. | | | | | | |
| | | | | | Subtotal | |

*ENTER this amount on the other side of this form.*  ⇨

## 4 *Computer Products Order Selection*

If you have questions about a particular computer product, please call our Computer Products Support Group at (703) 487-4763.

**Enter the NTIS order number(s)**
(Ordering by title only will delay your order)

| | | TAPE DENSITY (9 track) | | |
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| 21. | | | | |
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| 23. | | | | |
| | | | Subtotal | |

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# The NLM Technical Bulletin

## Pollution Prevention and TOXNET's® TRI91

Philip Wexler and Dorothy Stroup, Ph.D.
Division of Specialized Information Services
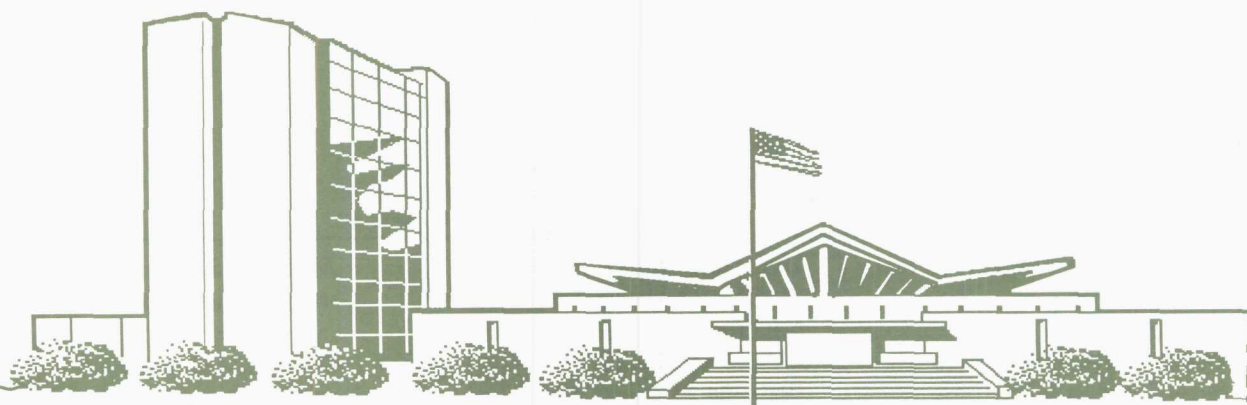
### In This Issue

### Introduction

The TRI (Toxic Chemical Release Inventory) series of files on TOXNET contains data reported annually by industrial facilities around the country to the EPA (Environmental Protection Agency) on quantities of toxic chemicals released to the environment or transferred off-site for waste treatment. The data are submitted to EPA in compliance with Section 313 of the 1986 Emergency Planning and Community Right-to-Know Act and currently covers the reporting years 1987-1990. The Pollution Prevention Act of 1990, among other requirements, also calls for facilities reporting TRI data to begin reporting source reduction and recycling activities. These data will be included in the TRI91 file, scheduled to join

| MEDLARS® DATABASE | TOTAL RECORDS | DATES COVERED | DATE LAST UPDATED | LATEST UPDATE TAG |
|---|---|---|---|---|
| **ELHILL® COMPUTER** | | | | |
| AIDSDRUGS | 165 | | 20 MAR 93 | 9303(EM) |
| AIDSLINE®** | 79,824 | JAN 80-APR 93 | 10 APR 93 | 9306(EM) |
| AIDSTRIALS | 469 | | 10 APR 93 | 9303(EM) |
| AVLINE® | 24,958 | THROUGH 1993 | 08 APR 93 | |
| BIOETHICSLINE® | 37,449 | JAN 73-APR 93 | 10 APR 93 | 9302(EM) |
| BIOTECHSEEK | 3,374 | JAN 90-APR 93 | 03 APR 93 | 9305(EM) |
| CANCERLIT® | 950,467 | JAN 63-APR 93 | 03 APR 93 | 9304(EM) |
| CATLINE® | 709,115 | THROUGH 1993 | 08 APR 93 | |
| CHEMID | 267,994 | | 06 FEB 92 | |
| CHEMLINE® | 1,170,493 | | 20 FEB 93 | 9302(EM) |
| DENTALPROJ™ | 786 | | 02 MAY 92 | |
| DIRLINE® | 14,429 | | 08 DEC 92 | |
| DOCUSER® | 13,698 | | 10 APR 93 | |
| HEALTH | 668,416 | JAN 75-APR 93 | 03 APR 93 | 9305(EM) |
| HISTLINE® | 109,273 | | 03 APR 93 | 9304(EM) |
| MEDLINE®* | 1,137,211 | JAN 90-MAY 93 | 10 APR 93 | 9306(EM) |
| MED85 | 1,687,583 | JAN 85-DEC 89 | 27 MAR 93 | |
| MED80 | 1,388,642 | JAN 80-DEC 84 | 13 FEB 93 | |
| MED75 | 1,278,687 | JAN 75-DEC 79 | 12 DEC 92 | |
| MED66 | 1,986,626 | JAN 66-DEC 74 | 30 JAN 93 | |
| MESH VOCABULARY FILE® | 88,385 | 1993 | 10 APR 93 | |
| NAME AUTHORITY FILE® | 386,232 | | 10 APR 93 | |
| PDQ® | | THRU APR 93 | 05 APR 93 | |
| POPLINE® | 197,150 | 1970-APR 93 | 03 APR 93 | 9304(EM) |
| SDILINE® | 31,582 | APR 93 | 27 MAR 93 | 9305(EM) |
| SERLINE® | 80,838 | 1993 | 10 APR 93 | |
| TOXLINE® | 1,120,901 | 1981-1993 | 03 APR 93 | 9303(EM) |
| TOXLINE65 | 705,394 | PRE 1965-1980 | 03 APR 93 | |
| TOXLIT® | 1,109,969 | 1981-1992 | 12 DEC 92 | 9212(EM) |
| TOXLIT65 | 586,405 | 1965-1980 | 01 SEP 87 | |

*N.B. FILE IS UPDATED WEEKLY; THIS IS PART 2 OF 5.
**N.B. FILE IS UPDATED WEEKLY; THIS IS PART 2 OF4.

**TOXNET® COMPUTER**

| | | | | |
|---|---|---|---|---|
| CCRIS | 4,220 | | 26 MAR 93 | |
| DART™ | 15,847 | | 01 APR 93 | |
| EMICBACK | 75,886 | | 08 SEP 92 | |
| ETICBACK | 49,593 | | 08 JUL 90 | |
| GENE-TOX | 2,919 | | 21 OCT 92 | |
| HSDB® | 4,357 | | 08 APR 93 | |
| IRIS | 643 | | 01 APR 93 | |
| RTECS® | 118,935 | | 12 APR 93 | |
| TRI87 | 79,488 | | 25 JAN 93 | |
| TRI88 | 86,028 | | 25 JAN 93 | |
| TRI89 | 85,563 | | 12 FEB 93 | |
| TRI 90 | 84,363 | | 12 FEB 93 | |
| TRIFACTS | 326 | | 10 APR 92 | |

# Technical Notes

## TOXNET now accessible via Internet

TOXNET can now be accessed via Internet at the following address:

TOXNET.NLM.NIH.GOV

Users of Grateful Med® Version 6.0 (for IBM compatibles) will need to update their communications module before connecting to TOXNET with Internet. The updates require the following steps:

anonymous ftp to
GMEDSERV.NLM.NIH.GOV
cd to grateful/gm6_fixes
get README

The README file instructions will tell you how to apply the necessary updates on this server to your copy of Grateful Med Version 6.0. Macintosh Grateful Med users will have access through Internet with the release of Version 2.0.

## NLM Online Users' Meeting;
## NLM Update; NLM Exhibit Booth
## at 1993 Annual Meeting of MLA

The NLM Online Users' Meeting will be a "Lunch and Learn" session, held on Monday, May 17 from 12:00 p.m. to 12:45 p.m. in the Grand Ballroom at the Annual Meeting of the Medical Library Association in Chicago, Illinois.

The NLM Update will be held on Wednesday, May 19 from 8:00 a.m. to 9:30 a.m. in the Red Lacquer room. Also, please visit NLM representatives at the NLM exhibit booth at Island B in the Exhibit Hall. The exhibit will be focusing on:

• NLM   Serving the Medical Library Profession

• NLM Connecting Health Professionals to the World's Information Resources
• NLM Leadership in Communications Research and Medical Informatics.

Also featured at the booth will be NLM's new Online Public Access Catalog for AVLINE, CATLINE, and SERLINE; the Health Services Research (HSTAR) database; COACH; Unified Medical Language System® (UMLS®); segments of the InfoSTAT videotapes; and much more. See you there!

## ELHILL to TOXNET Gateway

NLM is pleased to announce an anticipated mid-May official opening of a gateway from the ELHILL computer to the TOXNET computer. A gateway has been in existence for several years from the TOXNET computer to the ELHILL computer; that is, your search had to originate in TOXNET in order to use the gateway. This new enhancement will allow searchers who originate their searching on the ELHILL side to switch files easily and gate to databases resident on TOXNET. This feature is currently under development and testing. You may notice variations in system responses to your FILE commands as the testing progresses. When the experimentation stabilizes, NLM will formally announce the availability of the new gateway. Further details will be in a forthcoming issue of the *Technical Bulletin* and at the NLM Booth (Island B) at the Annual Meeting of the Medical Library Association in Chicago.

## Hospital Literature Index 1993

The American Hospital Association (AHA) Resource Center announces the availability of the first 1993 quarterly issue of 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, health policy, and the administrative aspects of health services delivery. For your convenience an order form is included as Appendix A.

Beginning with the 1993 issues, barcodes are on each issue of the Hospital Literature Index for increased convenience and accuracy when logging issues into an automated check-in system. The barcode is in compliance with the Serials Industry Systems Advisory Committee (SISAC) Code and Symbol Guidelines promulgated by the Book Industry Study Group. Each barcode identifies a specific issue of a serial title and contains the ISSN, issue date, and volume and issue numbers. As utilization of barcoding technology grows and spreads throughout libraries, the SISAC barcode serves as a unique identifier for each discrete issue of serial titles. The AHA Resource Center is pleased to be able to provide this technological advance in serials control to subscribers to the Hospital Literature Index.

## Bibliography of Bioethics — Volume 18

Volume 18 of the Bibliography of Bioethics is now available from the Kennedy Institute of Ethics. The flyer announcing this publication and the order form for it are included as Appendix B.

## New Clinical Alert Available Online

On February 10, 1993 the Clinical Alert titled: Important Therapeutic Information on Treatment of HIV Infection in HIV-Infected Patients Who Are Intolerant of or Have Failed Zidovudine Therapy (provided by the National Institute of Allergy and Infectious Diseases) became available online. This is the ninth Clinical Alert placed in FILE ALERT. To retrieve the full text of this alert, type FILE ALERT at any USER: prompt and then type alert (tf) at the next USER: prompt. The command PRINT 1 DL, will then print out the full record for this current Alert because Alerts print in "last in,

first out" order, meaning the latest alert prints out first. For more detailed instructions and examples on searching in FILE ALERT, see the article on pages 17-26 of the January-February 1992 *Technical Bulletin*.

## Backfile Postings in File MeSH

The MEDLINE Backfiles postings in the MeSH file have been updated to reflect the reconfigured Backfiles made available on December 14, 1992. The Backfiles postings data elements give the number of postings for each MeSH descriptor and subheading in MEDLINE, MED85, MED80, MED75, and MED66 as of February 5, 1993. The postings are not updated during the year, so the numbers reflect the counts as of Entry Month (EM) 9303 and serve as an estimate, not as an exact count, of the number of postings in a file. Please note that the short aliases are used for the file names: i.e., M85 for MED85. For each of these files, counts are given for both Index Medicus (IM) postings (starred number) and total postings (unstarred number). For MeSH subheading records, only total counts are given.

Following are examples of Backfiles postings from the MeSH file for ALZHEIMER'S DISEASE (MH) and therapy (SH):

| ALZHEIMER'S DISEASE (MH) | | therapy (SH) | |
|---|---|---|---|
| MED - | 3369 | MED - | 67901 |
| MED - | *2820 | M85 - | 106042 |
| M85 - | 4009 | M80 - | 84109 |
| M85 - | *3262 | M75 - | 67669 |
| M80 - | 1124 | M66 - | 95742 |
| M80 - | *799 | | |
| M75 - | 274 | | |
| M75 - | *149 | | |
| M66 - | 21 | | |
| M66 - | *10 | | |

## Cataloging in Publication Records in CATLINE and AVLINE

Cataloging in publication (CIP) records in CATLINE and AVLINE now include "P" in the NLM call number (CA field) as they did prior to Year-End processing. The change was implemented on Feburary 26, 1993 and this policy supersedes the announcement on page 31 of the November-December 1992 *Technical Bulletin*, stating that as of the file regeneration that took place in December 1992, CIP records no longer included P in the call number. CIP items are not yet in the NLM collection and should not be requested via interlibrary loan.

## MEDLARS Service Desk Changes

The MEDLARS Service Desk has moved into the '90s! Now, when you call the Service Desk at 1-800-638-8480, you are connected to a voice mail system. The Main Menu gives callers with a touchtone phone the option of pressing "1" for information on applying for access to MEDLARS and Grateful Med, "2" for information on NTIS billing, or "3" to speak with an MMS Service Desk representative.

We want librarians to know that they can press "3" as soon as they reach the Main Menu to be connected to the Service Desk. The system also accommodates callers who do not have a touchtone phone. The new voice mail was implemented on March 8. We hope this new system will help us serve you more efficiently.

## MEDLINE and MeSH Pocket Cards

MEDLINE AND MeSH pocket cards will be available in six to eight weeks. To receive copies of these cards, please mail or fax your request to the address shown. Your request will be held and processed as soon as this material becomes available.

Due to budget constraints the supply of these cards will be limited and we will initially restrict orders to single copies. The pocket cards are, of course, not copyrighted, and you may reproduce them freely to meet the needs of your institution.

Pocket Cards
MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894
Fax: 301-496-0822

## Updated Phones List Available

The April 1993 updated Phones List is now available. 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

## Serial Erratum in the January-February 1993 *Technical Bulletin*, page 36

The journal title PT was listed with an "IM" indicator to its left, indicating it is indexed for Index Medicus. This is incorrect, there should not be an "IM" designation for this journal.

**Erratum Notice for the <u>Abridged Index Medicus</u> List of Journals Indexed**

Because of erroneous information, we reported on page 28 of the September-October 1992 *Technical Bulletin* that the new publication entitled <u>PT</u> would continue <u>Physical Therapy</u> (see the correction in the January-February 1993 *Technical Bulletin,* page 36). These are, in fact, two separate titles; one does not continue the other.

The List of Journals Indexed listing in the January 1993 and February 1993 issues of <u>Abridged Indexed Medicus</u> (AIM) reflected this presumed title continuation and listed PT as an indexed title. However, <u>Physical Therapy</u> has undergone no title changes and citations to it in the January and February issues of <u>AIM</u> were unaffected by the erroneous listing. <u>PT</u> has been removed from the March 1993 <u>AIM</u> journal list.

**LSIOU Erratum in the January-February 1993 *Technical Bulletin*, page 5**

The hardcopy price of the <u>List of Serials Indexed for Online Users</u> for countries other than the U.S., Canada and Mexico was incorrectly shown as $12.00. That price should be $24.00. ❏

TOXNET in the late spring of 1993. This article provides some background to pollution prevention, outlines how the Pollution Prevention Act of 1990 will affect TRI91, includes a draft of the TRI91 Unit Record, and describes changes in it compared to the TRI87-90 Unit Record. A subsequent article will dwell more upon the implications of these changes for searching and printing, and offer some search examples.
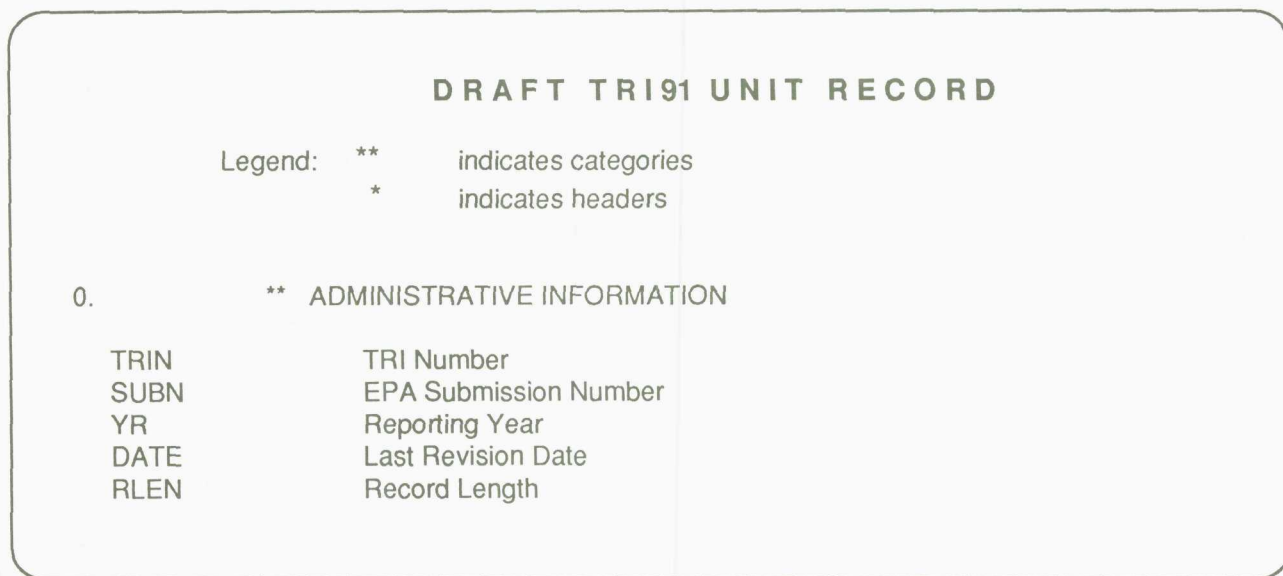
## Background

Although the modern environmental movement is some 30 years old and society has been aware throughout this time that we need to attack pollution problems, the nature of the strategy has evolved over the years. Initially, the generation of pollution and hazardous waste was considered unfortunate but inevitable. Environmental soundness was limited to disposing of these wastes or treating them. Recycling and energy recovery were big shifts in attitude as people realized there were potentially positive applications for the large quantities of hazardous chemicals generated.

Finally, and partially through environmental activism, society is beginning to focus on source reduction, that is, not creating the waste in the first place.

The Pollution Prevention Act of 1990 (P.L. 101-508), part of Title VI of the Omnibus Budget Reconciliation Act of 1990, recognizes this in its statement of policy:

> The Congress hereby declares it to be the national policy of the United States that pollution should be prevented or reduced at the source whenever feasible; pollution that cannot be prevented should be recycled in an environmentally safe manner, whenever feasible; pollution that cannot be prevented or recycled should be treated in an environmentally safe manner whenever feasible; and disposal or other release into the environment should be employed only as a last resort and should be conducted in an environmentally safe manner.

The Law goes on to outline source reduction and recycling data collection reporting requirements, all of which are reflected in the draft TRI91 Unit Record (Figure 1).



**D R A F T   T R I 91   U N I T   R E C O R D**

Legend:   **        indicates categories
          *         indicates headers

0.              **   ADMINISTRATIVE INFORMATION

      TRIN          TRI Number
      SUBN          EPA Submission Number
      YR            Reporting Year
      DATE          Last Revision Date
      RLEN          Record Length

**Figure 1 - Draft TRI91 Unit Record**

1.  FACID      **   FACILITY IDENTIFICATION

    FACN                Facility Number
    EPAR                EPA Region
    FCOV                Covered Facility

    FAC         *    Facility
    FNM                 Facility Name
    FAD                 Facility Street Address
    FCTY                Facility City
    FST                 Facility State
    FZIP                Facility Zip Code
    FCO                 Facility County
    FIPS                FIPS State/County Code

    PUBC                Public Contact
    TEL                 Public Contact Telephone Number
    SIC                 Standard Industrial Classification Code
    LAT                 Latitude
    LONG                Longitude
    CLAT                Centroid Latitude
    CLONG               Centroid Longitude
    FDBN                Facility Dun & Bradstreet Number
    EPAN                EPA Identification Number
    NPDES               NPDES Permit Number
    UIC                 UIC ID Number

    PAR         *    Parent Company Information
    PNM                 Parent Company Name
    PDBN                Parent Company Dun & Bradstreet Number


2.  ID         **   SUBSTANCE IDENTIFICATION

    RN                  CAS Registry Number
    NAME                Name of Substance
    SEC                 Trade Secret Status
    TSNM                Trade Secret Chemical Name
    TSUM                Trade Secret Chemical Effects Summary
    MIX                 Mixture Component Identity


    USE         *    Uses and Activities
    MUSE                Manufacturing Uses
    PUSE                Processing Uses
    OUSE                Other Uses and Activities

    MAX                 Maximum Amount on Site

**Figure 1 - Draft TRI91 Unit Record cont.**

3.  EREL        **  ENVIRONMENTAL RELEASE OF CHEMICAL

    AIR         *   Air Emissions
    AIRNE               Non-Point Air Emissions Estimates
    AIRNR                   Non-Point Air Release
    AIRNB                   Basis of Estimate
    AIRPE               Point Air Emissions Estimates
    AIRPR                   Point Air Release
    AIRPB                   Basis of Estimate
    AIRT                Total Air Release

    WATER       *   Water Discharges
    WE                  Water Discharge Estimates
    RSTR                    Receiving Stream
    WR                      Water Release
    WB                      Basis of Estimate
    SPER                    % from Storm Water
    WT                  Total Water Release

    UINJ        *   Releases to Underground Injection
    UINJE               Underground Injection Estimates
    UINJR                   Underground Injection Release
    UINJB                   Basis of Estimate
    UINJT               Total Underground Injection Release

    LAND        *   Releases to Land
    LANDE               Land Release Estimates
    LANDM                   Disposal Method
    LANDR                   Land Release
    LANDB                   Basis of Estimate
    LANDT               Total Land Release

    ERELT               Total Environmental Release of Chemical

4.  WASTE       **  WASTE TREATMENT

    TREAT               Treatment Methods/Efficiency
    GWST                    General Wastestream
    SEQT                    Sequential Treatment
    INFLC                   Influent Concentration
    TRM                     Treatment Method
    TREFF                   Treatment Efficiency
    TRB                     Basis of Treatment Data

5.  OFFS        **  OFF-SITE WASTE TRANSFER

    POTW        *   Publicly Owned Treatment Works
    POTWI               POTW Identifiers
    TWNM                    Name
    TWAD                    Street Address

**Figure 1 - Draft TRI91 Unit Record cont.**

| TWCTY | City |
|-------|------|
| TWST | State |
| TWZIP | Zip Code |
| TWCO | County |
| TWB | Basis of Estimate |
| POTWT | Total POTW Release |

| OLOC | * Other Off-Site Locations |
|------|------|
| OLOCI | Other Off-Site Location Identifers |
| OEPAN | Off-site EPA ID |
| ONM | Off-site Name |
| OAD | Street Address |
| OCTY | City |
| OST | State |
| OZIP | Zip Code |
| OCO | County/Foreign Country |
| OCTL | Control |

| OTRS | Off-Site Transfer Subtotal |
|------|------|
| OB | Basis of Estimate |
| OTM | Off-Site Treatment Method |

| OTR | Off-Site Location Transfer |
|------|------|

| OLOCT | Total Off-Site Locations Transfer |
|-------|------|

| 6. SRR | ** SOURCE REDUCTION AND RECYCLING |
|--------|------|

| QREL | Quantity Released |
|------|------|
| QRELP | Quantity Released Prior Year |
| QRELC | Quantity Released Current Year |
| QRELN | Quantity Released Next Year |
| QRELF | Quantity Released Future Year |

| ERV | * Energy Recovery |
|-----|------|
| ONRVM | On-Site Energy Recovery Methods Current Yr |
| ONRV | On-Site Energy Recovery |
| ONRVP | On-Site Energy Recovery Prior Year |
| ONRVC | On-Site Energy Recovery Current Year |
| ONRVN | On-Site Energy Recovery Next Year |
| ONRVF | On-Site Energy Recovery |
| OFRV | Off-Site Energy Recovery |
| OFRVP | Off-Site Energy Recovery Prior Year |
| OFRVC | Off-Site Energy Recovery Current Year |
| OFRVN | Off-Site Energy Recovery Next Year |
| OFRVF | Off-Site Energy Recovery Future Year |

**Figure 1 - Draft TRI91 Unit Record cont.**

```
QRCC          *   Quantity Recycled
ONCCM             On-Site Recycling Methods Current Yr
ONCC              On-Site Recycling
ONCCP                 On-Site Recycling Prior Year
ONCCC                 On-Site Recycling Current Year
ONCCN                 On-Site Recycling Next Year
ONCCF                 On-Site Recycling Future Year
OFCC              Off-Site Recycling
OFCCP                 Off-Site Recycling Prior Year
OFCCC                 Off-Site Recycling Current Year
OFCCN                 Off-Site Recycling Next Year
OFCCF                 Off-Site Recycling Future Year

QTRT          *   Quantity Treated
ONTRT             On-Site Treatment
ONTTP                 On-Site Treatment Prior Year
ONTTC                 On-Site Treatment Current Year
ONTTN                 On-Site Treatment Next Year
ONTTF                 On-Site Treatment Future Year
OFTRT             Off-Site Treatment
OFTTP                 Off-Site Treatment Prior Year
OFTTC                 Off-Site Treatment Current Year
OFTTN                 Off-Site Treatment Next Year
OFTTF                 Off-Site Treatment Future Year

SRRT              Source Reduction & Recycling Totals
SRRTP                 Source Reduction & Recycling Total Prior Year
SRRTC                 Source Reduction & Recycling Total Current Year
SRRTN                 Source Reduction & Recycling Total Next Year
SRRTF                 Source Reduction & Recycling Total Future Year

SREDI             Source Reduction Identifiers
SREDA                 Source Reduction Activities
SREDM                 Source Reduction Methods

ARELT             Accidental Release Total
PRODR             Production Ratio/Activity Index
OSRR              Other Source Reduction & Recycling

                                            March 1993
```

**Figure 1 - Draft TRI91 Unit Record cont.**

## Unit Record Changes (TRI91 vs. TRI87-90)

### Deleted Field - MINIM - Waste Minimization and New Category - Category 6 (SRR - Source Reduction and Recycling)

The TRI Unit Record for 1987-1990 did, in fact, include a data field for Waste Minimization, under Category 4 (Waste Treatment). However, the data called for were minimal, compliance was voluntary, and for most records the field was empty. The old Waste Minimization field has been removed and replaced (beginning with TRI91) with a new Category 6 (Source Reduction and Recycling).

As shown in the TRI91 Unit Record, Category 6 contains such data as: quantity of chemical released, quantity of chemical and method used for energy recovery, recycling, and treatment. These figures are reported for the current year (1991) and prior year (1990), and estimates are provided for the next year (1992), and future year (1993). Totals which sum up all the Source Reduction and Recycling Activities for each of these four years are also listed. The complexity of these data has led TOXNET to develop a tabular display for them, which will be discussed in the follow-up article. Other information in Category 6 includes a description of the specific source reduction activity (SREDA), such as equipment modification, improved recordkeeping, modified rinse systems, etc. and the methods used to identify these activities (SREDM), such as materials balance audits, technical assistance programs, etc.

The Accidental Release Total (ARELT) field contains the amount of chemical released as a result of: 1) remedial actions; 2) catastrophic events such as earthquakes, fires, or floods; or 3) one-time events not associated with normal or routine production processes.

The field called MINDX (Ratio Yr Prior to Reporting Yr) in Category 4 of TRI87-90 has been renamed to PRODR (Production Ratio/Activity Index) and moved to Category 6, for TRI91.

A new field called OSRR (Other Source Reduction & Recycling) indicates whether or not EPA has on file any additional information reported by the facility on their source reduction, recycling, and other pollution control techniques.

### Changes in POTW (Publicly Owned Treatment Works) Reporting - Under Category 5

TRI87-90 allowed for the reporting of transfers to multiple POTWs, as does TRI91. The difference is that, whereas the earlier years associated a specific amount (TWTR) and basis of estimate (TWB) with each POTW, TRI91 lists only the total amount transferred to all POTWs (POTWT), and TWB now represents the Basis of Estimate for the largest percentage of toxic chemical transferred. Thus, the repeating sub-field, TWTR, has been deleted, and the formerly repeating sub-field, TWB, has become a non-repeating field.

### Changes in OLOC (Other Off-Site Locations) Reporting - Under Category 5

TRI87-90 required facilities to report a single amount transferred (OTR), Basis of Estimate (OB) and Off-Site Treatment Method (OTM), for each OLOC. TRI91 now allows for multiple OTRs, OBs, and OTMs, for any given OLOC.

The mnemonic OCO, which had stood for County, now becomes dual purpose and stands for County/Foreign Country, since 1991 is the first reporting year for which facilities are allowed to report transfers to foreign countries. For domestic transfers, the OCO sub-field will contain the U.S. county name, while for overseas shipments, it will contain the foreign country name.

## Conclusion

The file structure for TRI87-90 has not changed and the types of data previously encountered in these files have not been removed. The alterations, additions, deletions of fields and/or data, are effective for the TRI91 Unit Record and will be reflected in the data submitted for that year. Changes, if any, in the TRI file structure for future years are dependent upon EPA regulatory and reporting requirements.

Pollution Prevention is a rapidly growing field. In addition to the Pollution Prevention Act of 1990, the EPA has established an Office of Pollution Prevention and Toxics, the American Institute for Pollution Prevention (in conjunction with the University of Cincinnati), and the Pollution Prevention Information Clearinghouse [703-821-4800]. The Clean Air Act Amendments of 1990 mention pollution prevention, as does EPA's 33/50 program, a voluntary initiative for industry to reduce their release and transfer of certain chemicals by specific dates. Some of the information generated by these activities will be included in EPA's report, Industrial Toxics and Pollution Prevention: A National Report, scheduled for publication in March 1993 [Contact Public Information Center (PM-211B), U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460]. TOXNET's TRI91 will offer the public a fascinating early look at industry's past and planned efforts to stem the tide of pollution by not generating it to begin with. ❑

# Gold Standard Search

Thank you to everyone who mailed in search strategies in response to the "Gold Standard Searches" article in the November-December 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 November-December 1992 issue was:

**What are the comparative costs and benefits of disposable vs. reusable diapers in an institutional setting?**

There were two winners! Our congratulations go to Ann Fingar of the Southeast Ohio Library Outreach Network at Ohio University in Athens, OH, who did her search using Grateful Med Version 6.0 and to Pam Geyer from MedSearch Unlimited in Palo Alto, CA. Hazel Benson's and Paul Tobin's strategies deserve an honorable mention. The Gold Standard Search strategy is shown in Figure 1. Ann Fingar's revised strategy is in Figure 2A. (Fingar's strategy was slightly simplified for this article and as a result of this simplification the retrieval was actually increased.) Pam Geyer's strategy is in Figure 3. Fingar used more terms than can be seen on the Input Screen. In the PC Version of Grateful Med, in order to see all the terms that Fingar used in her Grateful Med search strategy, you would enter **v** at the bottom of the search screen where you are offered the choice OK TO GO ON TO SEARCH ? (Y/n/v/s/*). You would then see the strategy as displayed on the View screen and shown in Figure 2B. Because Fingar's search was run using the PC Version 6.0 of Grateful Med, Figures 2A, 2B and 2C are all pictures of Version 6.0 screens.

## Analysis of the Search Strategies

The Gold Standard Search retrieved 55 relevant citations. Fingar's revised search strategy retrieved 50 citations and Geyer's strategy retrieved 44 citations. Each strategy retrieved a few marginal citations, but for the most part the retrieval in each strategy was on target. Ms. Fingar and Ms. Geyer will receive their choice of a free copy of Grateful Med or one hour of free search time. The Gold Standard Search had 5 unique citations; Fingar's search showed 23 unique citations and Geyer's search had 9 unique citations. So, while there was a central core of articles that everyone retrieved; no one strategy retrieved everything.

## Choosing a File:  HEALTH vs. MEDLINE

The winning strategies were all run in the HEALTH PLANNING & ADMINISTRATION database (file HEALTH). All the strategies submitted produced many fewer citations (the range was from 28 to 32 citations) if they were run in MEDLINE, indicating that the HEALTH file was the correct place to be. However, as Janet Clinton of Fitzgerald Mercy Hospital pointed out, there are some relevant citations that are only available in MEDLINE. She ran her strategy in both MEDLINE and HEALTH and retrieved three unique citations from MEDLINE. These citations were from: Pediatrics, Canada Nurse and Texas Medicine, journals not included in HEALTH. However, the need for a comprehensive retrieval should be balanced against the costs of running the search in two files.

## Search Strategy Suggestions

The most common error made in this search was to narrow down the subject too quickly by combining some form of "diaper" with a MeSH heading containing the word "cost". This was not a good idea for this exercise - first because the concept of benefits was not restricted solely to financial benefits, but also could have included environmental considerations and/or comparative infection risks and second because this combination just didn't retrieve much.

A better strategy would have been to do a quick search using just the word diaper in the title.

Command-language searchers would key in "all diaper#" (you would use the hash mark to retrieve on both diaper or diapers) qualified by (tf); this would retrieve over 40 fairly relevant citations. In Grateful Med, you would enter diaper# on the title line to obtain a similar retrieval. Then you could look at the MeSH headings for the most relevant articles and then do a search using the headings that appear most frequently in those articles. If you are using Grateful Med software, reviewing the citations retrieved and marking those that are relevant, will allow the computer to suggest appropriate MeSH headings to you. The citations retrieved with a title search would serve as a good beginning and provide a large enough sample to allow you to find the relevant MeSH headings. In an actual search situation, you might decide that this initial retrieval was enough and end your search here.

However, going on to the next step, that is finding the appropriate MeSH headings, you would discover that diaper is not a MeSH heading . For adult diapers you are referred to INCONTINENCE PADS and infant diapers are cross referenced to EXPLODE INFANT CARE. The command-language searcher will find these see references from diaper to the preferred MeSH heading either online in file MeSH or in the printed Annotated MeSH. The PC version Grateful Med searcher would key in the word diaper on a subject line and then hit the F10 key to bring up the listing of MeSH terms for diaper as shown in Figure 2C. The Mac Grateful Med searcher would click on the Find MeSH Term box after typing diaper on a subject line. At this point the searcher needs to decide whether to use the MeSH headings or just stay with the term diaper as a Text Word. The command-language searcher has the option of using a combination of both. Geyer's search used diaper as a Text Word and came up with good results.

Fingar took her Grateful Med strategy for diaper one step further; the term INCONTINENCE PADS suggested urinary incontinence to her and so she hit the E while she was on the vocabulary screen shown in Figure 2C to allow her to go elsewhere in the

vocabulary listing and keyed in the first ten letters of incontinence. (The Mac Grateful Med searcher would key in incontinence in the highlighted box in the lower right corner of the screen and then click on Find MeSH Term.) This brought her to the vocabulary screen containing URINARY INCONTINENCE and allowed her to select that term. A command-language searcher would simply key in any additional MeSH headings or Text Words, such as nappy or nappies - the British term for diaper, suggested by the initial retrieval.

In a similar fashion, you would look for MeSH headings related to the concept of disposable either by looking at MeSH online, checking the printed MeSH or by using the MeSH display in Grateful Med. The combination of the MeSH terms used for diaper with some of the terms used to cover the concept of disposal or disposable, gives a good search.

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

Predictors of long term success in the maintenance of weight loss.

Please keep your retrieval to the most recent 50 or fewer citations. Results will be published in the July-August 1993 *Technical Bulletin*. Entries must be received by June 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. [Editor's Note: This has never happened. Every search strategy received, winners and non-winners, has been unique, demonstrating no two searchers ever seem to think exactly alike.]

## 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  ❏

```
SS 1 /C?
USER:
file health

PROG:
YOU ARE NOW CONNECTED TO THE HEALTH PLANNING & ADMIN (1975 FORWARD)
FILE.

SS 1 /C?
USER:
all diaper: (tw) or nappy (tw) or nappies (tw) or incontinence pads

PROG:
SS (1) PSTG (123)

SS 2 /C?
USER:
clothing and urinary incontinence

PROG:
SS (2) PSTG (44)

SS 3 /C?
USER:
1 or 2
```

**Figure 1 -  Gold Standard Search Strategy**

PROG:
SS (3) PSTG (162)

SS 4 /C?
USER:
disposable equipment or all disposable# (tw) or all reusable# (tw)

PROG:
SS (4) PSTG (1100)

SS 5 /C?
USER:
3 and 4

PROG:
SS (5) PSTG (48)

SS 6 /C?
USER:
cost-benefit analysis or ec (sh)

PROG:
SS (6) PSTG (60538)

SS 7 /C?
USER:
3 and 6

PROG:
SS (7) PSTG (22)

SS 8 /C?
USER:
5 or 7

PROG:
SS (8) PSTG (58)

SS 9 /C?                         • Stringsearching (ts) the retrieval for English language articles
USER:                           should only be done when the retrieval is under 300.
ts (la) :eng:                   Otherwise, it is cheaper and more efficient to use: X and not for (la)
                                where X is the Search Statement number representing your retrieval.
PROG:
SS (9) PSTG (55)

**Figure 1 - Gold Standard Search Strategy cont.**

```
                        INPUT YOUR SEARCH                    HEALTH
        FILL IN ONLY THE LINES YOU NEED FOR YOUR SEARCH.
        PRESS  HOME  FOR HELP;  ESC  TO  RESTART.

    AUTHOR NAME
                    ↓ ENTER TITLE WORDS.
    TITLE WORDS
                    ↓ ENTER WORDS, F10 FOR MESH, OR F7 FOR RELEVANT TERMS.
 SUBJECT WORDS     Incontinence Pads (mh) or explode Infant Care or etc.
          and      ↓ ENTER ALTERNATIVE WORDS FOR NEXT CONCEPT, IF ANY.
   2ND SUBJECT     Disposable Equipment (mh) or explode Refuse Disposal or etc.
          and      ↓ ENTER ALTERNATIVE WORDS FOR NEXT CONCEPT, IF ANY.
   3RD SUBJECT

   4TH SUBJECT
                    ↓ ENTER ANY CHARACTER TO SEARCH ONLY ENGLISH LANGUAGE.
  ENGLISH ONLY     English Only.
          and      ↓ PRESS F10 FOR LIST OR ANY CHARACTER FOR REVIEWS ONLY.
    PUBL TYPE

                    ↓ ENTER JOURNAL ABBREVIATION. USE F10 KEY FOR LIST.
 JOURNAL ABBREV

                   DO YOU WANT TO ELIMINATE MEDLINE REFERENCES ? (y/N) N
                   OK TO GO ON TO SEARCH ? (Y/n/v/s/*)
```

**Figure 2A - Ann Fingar's Strategy on the Grateful Med Input Form Screen**

```
file HEALTH
eraseall
users
Incontinence Pads (mh) or explode Infant Care or
explode Urinary Incontinence
Disposable Equipment (mh) or explode Refuse Disposal or
explode Waste Products
1 and 2
3 and not for (la)
print include ad,cm,mh,pt,ps,la
stop y
```

```
              OK TO GO ON TO SEARCH (Y/n/e)?
```

**Figure 2B - View Screen to see all the Selected terms**

```
╔══════════════════════════════════════════════════════════════════╗
║                     Alphabetic MeSH Terms                          ║
╠══════════════════════════════════════════════════════════════════╣

   Diaminopropiophenone (xr) (=Kynuramine)
   Platinum Diamminodichloride (xr) (=Cisplatin)
   Anemia, Diamond-Blackfan (xr) (=Fanconi's Anemia)
   Diamorphine (xr) (=Diacetylmorphine)
   Diamphenethide (xr) (=Diamfenetide)
   Dianhydrodulcitol (xr) (=Dianhydrogalactitol)
   Dianhydrogalactitol
   Dianisidine
   Dianisyl Trichloroethane (xr) (=Methoxychlor)
    Diaper  Pins (xr) (=Infant Care +)
    Diaper  Rash
   Diapers , Adult (xr) (=Incontinence Pads)
 ► +Diapers , Infant (xr) (=Infant Care +)
   Diaphanography (xr) (=Transillumination)
   Diaphanoscopy (xr) (=Transillumination)
   Diaphorase (xr) (=Lipoamide Dehydrogenase)
   DT Diaphorase (xr) (=NAD(P)H Dehydrogenase (Quinone))
   NAD Diaphorase (xr) (=Lipoamide Dehydrogenase)
```

```
┌──────────────────────────────────────────────────────────────────┐
│  ENTER  Select/Deselect      E  Go elsewhere       ↓↑ PgDn/Up  Move Cursor │
│   +  Plus specific terms     F5  See specific terms  ← →  View rest of term │
│   *  Major concept only                            HOME  Help      │
│                  ESC  - Return to Form Screen                       │
└──────────────────────────────────────────────────────────────────┘
```

Figure 2C - Grateful Med Vocabulary Screen

SS 1 /C?
USER:
file health

PROG:
YOU ARE NOW CONNECTED TO THE HEALTH PLANNING & ADMIN (1975 FORWARD)
FILE.

SS 1 /C?
USER:
all diaper:

PROG:
SS (1) PSTG (106)

SS 2 /C?
USER:
1 and exp costs a#d cost analysis

PROG:
SS (2) PSTG (8)

SS 3 /C?
USER:
1 and disposable equipment

PROG:
SS (3) PSTG (16)

SS 4 /C?
USER:
1 and disposable (tw)

PROG:
SS (4) PSTG (33)

SS 5 /C?
USER:
1 and reusable (tw)

PROG:
SS (5) PSTG (9)

SS 6 /C?
USER:
1 and refuse disposal

**Figure 3 - Pam Geyer's Search Strategy**

```
PROG:
SS (6) PSTG (7)

SS 7 /C?
USER:
1 and all environment: (tw)

PROG:
SS (7) PSTG (18)

SS 8 /C?
USER:
1 and all cost: (tw) and all benefit: (tw)

PROG:
SS (8) PSTG (5)

SS 9 /C?
USER:
2 or 3 or 4 or 5 or 6 or 7 or 8

PROG:
SS (9) PSTG (46)

SS 10 /C?
USER:
ts (la) :eng:

PROG:
SS (10) PSTG (44)
```

**Figure 3 - Pam Geyer's Search Strategy cont.**

# Eliminating MEDLINE Overlap from your Searches

## Introduction

If you run a search in the MEDLINE database and then continue on and run a search strategy on the same subject in AIDSLINE, or CANCERLIT, or HEALTH, or TOXLINE, you may eliminate the MEDLINE citations from your retrieval in the new file by combining the Search Statement number that represents your total retrieval with one of the "and not" statements shown on the "rolodex card" on the next page. An example of this procedure is shown in Figure 1. You might want to copy the rolodex card in Figure 2 and keep it posted near your computer for easy reference.

## Running a Search

For example, suppose you ran a search in MEDLINE and its Backfiles and then remembered that you might find additional citations in AIDSLINE, but you don't want to see the MEDLINE citations again. The most efficient way to do this would be to: 1) Run your search strategy in MEDLINE (or a Backfile). 2) Run the search in the new file. (In many cases, such as the one shown below, you would not run the identical search strategy in the new file, because it would be inefficient.) In AIDSLINE, for example, you would not run a search using the term AIDS, because everything in the file is on AIDS. 3) Combine the last search statement with one of the "and not" statements shown.

## TOXLINE - A special case

The TOXLINE database is built up from 17 subfiles, two of which are MEDLINE-derived. The Toxicity Bibliography (TOXBIB) subfile is wholly derived from MEDLINE and the Developmental and Reproductive Toxicology (DART) subfile is partially derived from MEDLINE and these MEDLINE-derived citations may be eliminated from your TOXLINE retrieval. The TOXBIB citations have the value TOXBIB in the Secondary Source ID (SI) field and the DART citations have the value MED in the Classification Code (CC) field. However, for the other 15 component subfiles, any articles indexed from the same journals covered in MEDLINE will still be there even after you run the overlap eliminator. Because these other files are created independently, there is no way to eliminate duplicate journal citations.

```
YOU ARE NOW CONNECTED TO THE MEDLINE (1990 - 93) FILE.

SS 1 /C?
USER:
dentists and aids

PROG:
SS (1) PSTG (121)

SS 2 /C?
USER:
file aidsline

PROG:
YOU ARE NOW CONNECTED TO THE AIDSLINE (1980 FORWARD) FILE.
```

Figure 1 - Eliminating the MEDLINE citations from a search run in MEDLINE & AIDSLINE

```
SS 1 /C?
USER:
dentists

PROG:
SS (1) PSTG (503)

SS 2 /C?
USER:
1 and not med (si)

PROG:
SS (2) PSTG (30)              • These 30 citations are not available in MEDLINE.
```

**Figure 1 - Eliminating the MEDLINE citations from a search run in MEDLINE & AIDSLINE cont.**

| MEDLINE OVERLAP ELIMINATORS | |
|---|---|
| AIDSLINE | and not med (si) |
| CANCERLIT | and not medl (si) |
| HEALTH | and not med (si) |
| TOXLINE | and not toxbib (si) and not med (cc) |

EX:   1 and not med (si)

**Figure 2 - Eliminating MEDLINE Overlap**

# Downloading with TRI using File Transfer Protocols

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[Editor's Note: File transfer protocol availability for TOXNET includes three methods for error detection and correction for certain TOXNET report functions; no data compression is involved. The protocols and report formats described concern transfer of text files and not transfer of compressed files. Your communications software may require action on your part to use these protocols and not all software supports all protocols. Users are referred to their telecommunications software manuals for details on file capture when downloading as well as for information on how to activate various protocol transfers like Kermit or XMODEM. All three file transfer protocols described are available for the TRI files only; the other TOXNET files are limited to ASCII. Error checking and correction according to the x.25 standards are already provided by the networks, e.g., SprintNet (Telenet), BT TYMNET, and CompuServe. Therefore, the mechanisms discussed here may have the greatest utility for direct-dial connections as well as the transfer of data strings into other software packages for further manipulation. These file transfer protocols and report formats are not available for ELHILL databases (MEDLINE, etc.) or for PDQ.]

Downloading with file transfer protocols is extremely useful when you wish to store information from your online retrieval set as a file on your personal computer. The ability to capture your retrieved data in a file on your hard disk or on a floppy is dependent on your telecommunication software package. In TOXNET an online PRINT command can result in three possible outputs: 1) data display on your monitor, 2) hard copy printing at your printer, or 3) transfer of the information to a storage device on your PC. The latter is achieved through downloading using file transfer protocols.

Since the operation of file transfer protocols is related to whatever telecommunications software you use, it is necessary for you to consult the documentation for your communications package before attempting to download. The documentation will contain information concerning the protocols

available for your communications software package and instructions on how to use them.

Please note that an automatic data capture feature is built into NLM's Grateful Med software and thus easy-to-use downloading is readily available to Grateful Med users. Since the Grateful Med capability to transfer search results to your personal computer is automatic, you may wish to purchase Grateful Med for this feature alone. Grateful Med downloads records in ASCII text format but does not include the other file transfer protocols. Users can send specialized PRINT commands in direct mode only. (Select Direct from the Action screen and select TOXNET.)

TOXNET supports downloading through ASCII, Kermit, and XMODEM file transfer protocols. ASCII is available for all TOXNET files, whereas Kermit and XMODEM are, at present, restricted for use with special TRI downloading reports, i.e., fixed-field format reports.

The TRI downloading features described in this article are available in both direct search mode and in menu searching. In direct searching users must activate the file transfer protocol at their PC before issuing a PRINT command. In menu searching users must first choose option [5] for downloading records on the Search Completion Menu and then choose option [4] for fixed format records on the Format Selection Menu. Next a menu with eight special format reports will appear, and after making that selection, users are presented with the choice of protocols, i.e., ASCII, Kermit or XMODEM and are instructed to set up their PC to accept the data for the file transfer protocol.

## ASCII File Transfer Protocol

ASCII downloading is the default protocol and can be used for all TOXNET files and with any valid online PRINT command. ASCII downloading can also be used for the special downloading reports for TRI files. ASCII downloading is available for use

through direct-dial lines into TOXNET, as well as through the CompuServe, TYMNET, SprintNet (formerly TELENET), and with Internet networks. ASCII downloading is a non-error-correcting file transfer protocol and so data loss and garbling are potential problems.

## Examples of PRINT commands with ASCII:

PRINT ASCII DL
PRT ASCII AIRREPORT
PRT FACSUBREPORT 1:10
     [assumes ASCII as the default]
PRT LANDREPORT SS 3
     [assumes ASCII as the default]

## Kermit File Transfer Protocol

Kermit was originally designed at Columbia University to accommodate file transfer between a diverse mixture of computers from a variety of manufacturers. The design allows for the restrictions and peculiarities of the medium and the requirements of diverse operating environments: buffering, duplex, parity, character set, file organization, etc. The protocol is carried out by Kermit programs on each end of the connection, sending packets back and forth. The sender transmits file names, data and control information and the receiver acknowledges (positively or negatively) receipt of each packet. A checksum byte is sent with each packet for validation and data transmission is nearly 100% reliable.

The public domain package named MSKermit, produced by Columbia University, provides good results when connected to TOXNET. MSKermit can be externally accessed by many communication packages and you should consult the documentation for your communications package for details about externally-connected protocols.

Information and ordering instructions for MSKermit can be obtained from:

Kermit Distribution
Columbia University Center for
  Computing Activities
7th Floor, Watson Laboratory
612 West 115th Street
New York, NY  10025

Currently Kermit is only available as a file transfer protocol with TOXNET for specially defined reports from the Toxic Chemical Release Inventory (TRI) series of files. Kermit downloading is available for use through local direct-dial lines into TOXNET, Internet, as well as through the CompuServe, TYMNET, and SprintNet (formerly TELENET) networks.

## Examples of online PRINT commands with Kermit:

PRINT KERMIT SUMMARYREPORT
PRT KERM AIRREPORT
PRT KERM LANDREPORT 1:25
PRT KERM AIRREPORT SS 5

## XMODEM File Transfer Protocol

This file transfer protocol is widely supported because of its universality, simplicity, and reasonable performance.  XMODEM is an 8-bit transfer etiquette utilizing a checksum or CRC byte for each 128-byte packet of data.  Packets received with an invalid checksum or CRC are flagged for retransmission by the sender.  The XMODEM system of validation provides nearly 100% reliable transmission.  To use XMODEM, you must have appropriate communications software.

Currently XMODEM is only available for TOXNET use as a file transfer protocol with specially defined reports for the Toxic Chemical Release Inventory (TRI) series of files.  XMODEM downloading is available for use only through direct-dial lines into TOXNET.

**Examples of online PRINT commands with XMODEM:**

PRINT XMODEM AIRREPORT
PRT XMOD SUMMARYREPORT
PRT XMOD LANDREPORT 1:50
PRT XMOD AIRREPORT SS 3

**Special Download Reports**

Eight special downloading reports have been specifically defined for TRI, as follows:

- AIRREPORT
- FACSUBREPORT
- LANDREPORT
- OLOCREPORT
- POTWREPORT
- SUMMARYREPORT
- UINJREPORT
- WATERREPORT

The following examples show the print options valid with the downloading report formats:

**Downloading Using Error Correcting Protocols:**

Kermit Download:  PRT KERM AIRREPORT
Xmodem Download:  PRT XMOD AIRREPORT

**Downloading with Specific Record Numbers or Search Statement Numbers:**

Record selection:
PRT 1:10 FACSUBREPORT
          [assumes ASCII as default]

Search selection:
PRT SS 1 KERM FACSUBREPORT

The use of any other print options with the special TRI downloading reports will return an error message.

**Special Report Formats:**

The special downloading reports are in a fixed field format, each field occurring at a specific character position in the record. Field names and mnemonics are deleted, and data values are arranged in a linear string identified by their character position in the record. Each TRI record will appear as one linear data string. This linear, fixed field format allows downloading of TRI data in a format that can then readily be utilized in spread sheets, statistical packages or other PC data manipulation software. At first glance the data may seem incomprehensible since all distinguishing labels have been removed, but the "road maps" provided in the next section will allow you to decode the data and to recognize, for example, that the numbers in character positions 118 through 126 represent the CAS Registry Number while the numbers in positions 78 to 82 are the facility zip code.

**Common Header:**

All reports carry the following information in the initial character positions as a common header:

| Position | Field | Notes |
|---|---|---|
| 1   to 15 | FACN | |
| 16  to 30 | SUBN | All punctuation stripped from field |
| 31  to 60 | FNM | |
| 61  to 75 | FCTY | |
| 76  to 77 | FST | |
| 78  to 82 | FZIP | |
| 83  to 97 | FCO | |
| 98  to 117 | PNM | |
| 118 to 126 | RN | All punctuation stripped from field |
| 127 to 156 | NAME | |

## AIRREPORT:

The fields in this report contain information about air emissions. The fields are in character positions following the common header:

| Position | Field | Notes |
|---|---|---|
| 157 to 163 | LAT | |
| 164 to 170 | LONG | |
| 171 to 180 | AIRNR | |
| 181 | AIRNB | |
| 182 to 191 | AIRPR | |
| 192 | AIRPB | |
| 193 to 202 | AIRT | |

## FACSUBREPORT:

The fields in this report contain information about the submitting facility. The fields are in character positions following the common header:

| Position | Field | Notes |
|---|---|---|
| 157 to 163 | LAT | |
| 164 to 170 | LONG | |
| 171 to 179 | FDBN(1) | All punctuation stripped from field |
| 180 to 188 | FDBN(2) | |
| 189 to 200 | EPAN(1) | |
| 201 to 212 | EPAN(2) | |
| 213 to 216 | SIC(1) | |
| 217 to 220 | SIC(2) | |
| 221 to 224 | SIC(3) | |
| 225 to 228 | SIC(4) | |
| 229 to 232 | SIC(5) | |
| 233 to 236 | SIC(6) | |

## LANDREPORT:

The fields in this report contain information about land releases. The fields are in character positions following the common header:

| Position | Field | Notes |
|---|---|---|
| 157 to 159 | LANDM(1) | |
| 160 to 169 | LANDR(1) | |
| 170 | LANDB(1) | |
| 171 to 173 | LANDM(2) | |
| 174 to 183 | LANDR(2) | |
| 184 | LANDB(2) | |
| 185 to 187 | LANDM(3) | |
| 188 to 197 | LANDR(3) | |
| 198 | LANDB(3) | |
| 199 to 201 | LANDM(4) | |
| 202 to 211 | LANDR(4) | |
| 212 | LANDB(4) | |
| 213 to 222 | LANDT | |

## OLOCREPORT:

The fields in this report contain information about transfers to Other Off-Site Locations. The fields are in character positions following the common header:

| Position | Field | Notes |
|---|---|---|
| 157 to 168 | OEPAN | |
| 169 to 198 | ONM | All fields other than the header fields are continued. If there are 3 OLOC occurrences in a record, it will appear that you get 3 records. The header information will not change, but each occurrence will appear in a separate "record." |
| 199 to 213 | OCTY | |
| 214 to 215 | OST | |
| 216 to 220 | OZIP | |
| 221 to 235 | OCO | |
| 236 | OCTL | |
| 237 to 246 | OTR | |
| 247 | OB | |
| 248 to 250 | OTM | |

## POTWREPORT:

The fields in this report contain information about transfers to a Public Owned Treatment Works (POTW). The fields are in character positions following the common header:

| Position | Field | Notes |
|---|---|---|
| 157 to 186 | TWNM | All fields other than the header fields are continued. If there are 3 POTW occurrences in a record, it will appear that you get 3 records. The header information will not change, but each occurrence will appear in a separate "record." |
| 187 to 201 | TWCTY | |
| 202 to 203 | TWST | |
| 204 to 208 | TWZIP | |
| 209 to 223 | TWCO | |
| 224 to 233 | TWTR | |
| 234 | TWB | |

## SUMMARYREPORT:

The fields in this report contain the total values for environmental releases and transfers. The fields are in character positions following the common header:

| Position | Field | Notes |
|---|---|---|
| 157 to 166 | AIRT | |
| 167 to 176 | WT | |
| 177 to 186 | UINJT | |
| 187 to 196 | LANDT | |
| 197 to 206 | ERELT | |
| 207 to 216 | POTWT | |
| 217 to 226 | OLOCT | |

## UINJREPORT:

The fields in this report contain information on releases to underground injection. The fields are in character positions following the common header:

| Position | Field | Notes |
|---|---|---|
| 157 to 166 | UINJR(1) | |
| 167 | UINJB(1) | |
| 168 to 177 | UINJR(2) | |
| 178 | UINJB(2) | |
| 179 to 190 | UIC(1) | |
| 191 to 202 | UIC(2) | |
| 203 to 212 | UINJT | |

## WATERREPORT:

The fields in this report contain information about water releases. The fields are in character positions following the common header.

| Position | Field | Notes |
|---|---|---|
| 157 to 165 | NPDES(1) | The fields WR, WB and RSTR are continued. If there are 3 occurrences in a record, it will appear that you get 3 records. The other information will not change, but each occurrence will a be a separate "record." |
| 166 to 174 | NPDES(2) | |
| 175 to 184 | WR | |
| 185 | WB | |
| 186 to 239 | RSTR | |

## Conclusion

Whereas searching alone provides you with a set of retrieved records, downloading creates a file of these records, stored on your personal computer, and allows you to manipulate your retrieval data in an offline mode with your personal software. You may wish to use your downloaded data in conjunction with a spread sheet, word processing, or database management package, to name but a few possibilities. File transfer protocols add a new dimension to your TRI searches by giving you greater flexibility to manipulate your data output. If you have any questions regarding this information please contact: Division of Specialized Information Services, National Library of Medicine at 301-496-6531. ❑

## AVLINE Update: Limiting the Use of MD and ME Fields in AVLINE to Represent Items Owned by NLM

The AVLINE database includes two fields that are used to retrieve bibliographic records by physical characteristics or format. The Media Descriptor (MD) field provides access to materials by searchable tags for such characteristics as width (e.g., for videorecordings, 1/2 IN or 3/4 IN; for motion pictures, 8 MM, 16 MM). The Media (ME) field describes the type of material, such as videorecording, computer file, or motion picture. The searchable tags in this field duplicate information given in the non-searchable General Material Designation (GMD) field.

Historically, these searchable fields have been included in AVLINE, not only for formats owned by NLM, but for all known available formats. This information was intended to aid patrons and staff of various libraries in locating materials usable with available equipment.

Information solicited from frequent users of AVLINE and NLM's Reference Section staff indicated that these tags are rarely used for searching, and sometimes are confusing to the searcher who expects to be able to obtain a particular format from NLM based on the presence of the MD or ME tags.

The use of MD and ME tags to describe materials not owned by NLM has been discontinued. AVLINE records for items cataloged after February 1, 1993, include only MD and ME tags for those formats actually owned by NLM. Information on the availability of other known formats will continue to be provided in a general note according to the provisions of the Anglo-American Cataloging Rules. For example, an audiovisual item cataloged as a videorecording which is also available as a 16 mm. motion picture will contain the general note, "Available also as a 16 mm. motion picture." No modification will be made to the MD and ME tags on existing records to reflect this new policy.

This change of cataloging policy is intended to improve the processing time for nonprint and computer software materials, and, at the same time, make it easier for users of AVLINE to identify NLM holdings correctly. ❏

# BIOETHICSLINE Update

The BIOETHICS file was regenerated in April 1993. Approximately 37,500 citations are now online. Searchers should note that the file incorporates 1993 MeSH, several new or retrospectively changed Keywords, and one print capability change.

The Keywords REVIEW and BIBLIOGRAPHY are now searchable unqualified as well as with either the (KW) or the (PT) qualifier. These terms appear on BIOETHICSLINE records only as Keyword Descriptors (KWD, or indexing terms from the controlled indexing vocabulary of the Bioethics Thesaurus); access to them as Publication Types is generated by computer algorithm from the Keywords.

## Vocabulary Changes

The regenerated BIOETHICS file incorporates the following new or retrospectively changed Keywords:

    BUDDHISM
    DOWN SYNDROME
       (formerly Down's syndrome)
    ENTREPRENEURSHIP
    GAMETE INTRAFALLOPIAN TRANSFER
       (formerly GIFT (gamete intrafallopian
       transfer))
    GUIDELINES
    HINDUISM
    HUNTINGTON'S DISEASE
       (formerly Huntington's chorea)
    INFERTILITY
       (formerly Fertility)

In addition, some new or relatively new Thesaurus Keywords have been retrospectively added to relevant older records by means of a computer search algorithm; these include most notably the terms ASSISTED SUICIDE (1992) and GUIDELINES (1993).

Finally, some geographic Keywords which differed from MeSH terms have been retrospectively changed to their MeSH forms. This makes it possible to explode geographics as MeSH in BIOETHICSLINE. (Note that BIOETHICS records may contain some non-MeSH geographics such as the names of cities. Note also that non-Thesaurus proper-name Keywords such as geographics appear in the Keyword Identifiers (KWI) field on BIOETHICS records.)

The 1993 edition of the Bioethics Thesaurus, which annotates the new Keyword descriptors (KWD) with explanatory scope notes and cross-references to broader, narrower, and related terms, will be published in early May. It will be available for $10 ($15 outside of North America), from the Kennedy Institute of Ethics, Georgetown University (see address and prepayment information under Ordering Information below).

## Print Capability Change

The UI (Unique Identifier) element now prints in the first position in the Unit Record with all print formats. This sequential five-digit accession number is both directly searchable and rangeable. It can be used for ordering copies of documents from the National Reference Center for Bioethics Literature.

## Ordering Information

Single copies of hard-to-find documents cited on BIOETHICSLINE may be ordered, subject to copyright restrictions, from the:

    National Reference Center for
     Bioethics Literature
    Kennedy Institute of Ethics
    Georgetown University
    Washington, DC 20057-1065
    800-MED-ETHX or 202-687-3885
    FAX: 202-687-6770

The price for standard delivery via first-class mail in the U.S., Canada, and Mexico is $5 per document for pages 1-10, plus 15 cents for each additional page. (Call for information on pricing for other forms of delivery). All orders must be prepaid; checks should be make payable to: Kennedy Institute of Ethics; charges to MasterCard or Visa are also accepted. ❑

# SERLINE Update

Esther Baldinger
Serial Records Section
National Library of Medicine

## New Features and Fields in SERLINE

Several changes were implemented in SERLINE in March 1993. There are two new fields, Former Frequency (FFR) and OLDSX (OSX). In addition, Title Field Text Word (TF) searching is now available. In the near future, a new value will be added to the Indexing Status (XS) field.

## Former Frequency (FFR) Field

This field indicates the former frequency if the frequency has changed. For example, if a title was published quarterly from 1980-1988, monthly from 1989-1990, and then quarterly again beginning in 1991, the Former Frequency would be:

FFR - Q
FFR - M

The latest frequency change is in the last occurence of the FFR field while the earliest is in the first occurence. More detailed information about the frequency change, such as the year range of a former frequency is provided in the General Notes (GN) field.

NOTE: Former frequency information is not available for all titles where the frequency has changed. Most frequency change information that is available in SERLINE is for data added since 1990. The absence of data in the FFR field for a given publication does NOT mean that there has not been a frequency change.

Former Frequency is not directly searchable. The data element is printed only when it is specified (i.e., PRT FFR) or when the PRT DETAILED command is used.

## OLDSX (OSX) Field

This field indicates that a title was previously fully or selectively indexed for MEDLINE, BIOTECHSEEK, or HEALTH if the indexing coverage changed after 1992. The two possible values are: S, for titles that were previously selectively indexed and F, for titles that were previously fully indexed.

OLDSX is not directly searchable. The data element is printed only when it is specified (i.e., PRT OSX) or when the PRT DETAILED command is used.

## New Value for Indexing Status (XS) Field for Currently Indexed Titles

In 1993, a new value will be added to indicate title continuations. All currently indexed titles have been assigned an indexing status of 1 and no differentiation has been made between a title newly selected for indexing and a title continuing one already indexed. When the new value is added, searchers will be able to pull a list of just indexed title continuations as well as all currently indexed titles. More details will be published in a forthcoming *Technical Bulletin*.

## Title Field Text Word (TF) Search Capability

Title Field Text Word (TF) searching has now been implemented for SERLINE. This will enable searchers to limit retrieval to records that contain certain words in the title without STRINGSEARCHing. The Title Field Text Words (TF) in SERLINE are generated from both the Title (TI) and Added Title (AT) fields. For example:

SS 1: (TF) United and States

will retrieve the desired results without also picking up titles where the United States is also in the Publisher (PU) field. ❑

# SERIALS UPDATE

### INDEXED TITLES UPDATED, JANUARY-FEBRUARY 1993

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 1993

IM  APPLIED NURSING RESEARCH
INI APPL NURS RES
    1N1,MAY 1988—
    SAUNDERS
    PHILADELPHIA PA          UNITED STATES
    VOL. 1 COMPLETE IN 3 ISSUES.
    INDEXING FOR INI BEGAN WITH V2N1,FEB 1989.
    INDEXING FOR IM BEGAN WITH V6N1,FEB 1993.
    W1 AP516D               0897-1897
    SR0061251               JC: 6LV


IM  IMAGE - THE JOURNAL OF NURSING SCHOLARSHIP
INI IMAGE J NURS SCH
    15N1,WINTER 1983—
    SIGMA THETA TAU
    INDIANAPOLIS IN          UNITED STATES
    OFFICIAL JOURNAL OF SIGMA THETA TAU,
    NATIONAL HONOR SOCIETY OF NURSING.
    CONTINUES: IMAGE.
    INDEXING FOR IM BEGAN WITH V25N1,SPRING
    1993.
    W1 IM457H               0743-5150
    I05630000               JC: GG1


IM  JOURNAL OF COMMUNITY HEALTH NURSING
HLI J COMMUNITY HEALTH NURS
INI 1N1,JAN 1984—
    LAWRENCE ERLBAUM ASSOCIATES
    HILLSDALE NJ             UNITED STATES
    INDEXING FOR INI BEGAN WITH V1N1,1984.
    INDEXING FOR IM BEGAN WITH V10N1, 1993.
    W1 JO593R               0737-0016
    J17445000               JC: JCH
      ERLBAUM ASSOCIATES INC., 365 BROADWAY,
      HILLSDALE NJ 07642


IM  JOURNAL OF NURSING CARE QUALITY
HLI J NURS CARE QUAL
INI 6,1991—
    ASPEN PUBLISHERS
    FREDERICK MD            UNITED STATES
    CALLED ALSO: JNCQ. EACH ISSUE HAS ALSO
    INDIVIDUAL TITLE. CONTINUES: JOURNAL OF
    NURSING QUALITY ASSURANCE.
    INDEXING FOR INI BEGAN WITH V6N1,1991.
    INDEXING FOR IM BEGAN WITH V7N2,JAN 1993.
    W1 JO796UJ             1057-3631
    SR0072319              JC: A82
      ASPEN PUBLISHERS INC.,7201 MCKINNEY
      CIRCLE, FREDERICK MD 21701


IM  JOURNAL OF PEDIATRIC NURSING
    J PEDIATR NURS
    1N1,FEB 1986—
    W.B. SAUNDERS
    PHILADEPHIA PA          UNITED STATES
    PUBLISHER VARIES. PUBLISHED BY GRUNE AND
    STRATTON, VOLS. 1-4N1 (1986-89);
    W.B. SAUNDERS, VOL. 4N2 (1989)- .
    INDEXING FOR INI BEGAN WITH V1N1, 1986.
    INDEXING FOR IM BEGAN WITH V8N1,FEB 1993.
    W1 JO828EJ             0882-5963
    SR0055098              JC: JNS


IM  JOURNAL OF PEDIATRIC ONCOLOGY NURSING
INI J PEDIATR ONCOL NURS
    6N3,1989—
    W.B. SAUNDERS FOR THE ASSOCIATION OF
    PEDIATRIC ONCOLOGY NURSES
    PHILADELPHIA PA          UNITED STATES
    CONTINUES: JOURNAL OF THE ASSOCIATION OF
    PEDIATRIC ONCOLOGY NURSES.
    OFFICIAL JOURNAL OF THE ASSOCIATION OF
    PEDIATRIC ONCOLOGY NURSES.
    INDEXING FOR IM BEGAN WITH V10N1,JAN 1993.
    W1 JO828EP             1043-4542
    SR0066783              JC: AI4

## TITLES SELECTED FOR INDEXING, JANUARY-FEBRUARY 1993

HLI   MATERIALS MANAGEMENT IN HEALTH CARE
      MATER MANAGE HEALTH CARE
      1N1,MAR 1992—
      AMERICAN HOSPITAL PUBLISHING
      CHICAGO IL                    UNITED STATES
      RUNNING TITLE: MATERIALS MANAGEMENT.
      INDEXING BEGAN WITH V1N1,MAR 1992.
      IN PROCESS                    1059-4531
      SR0073190                     JC: BPK

IM    SCHOLARLY INQUIRY FOR NURSING PRACTICE
INI   SCH INQ NURS PRACT
      1N1,SPRING 1987—
      SPRINGER
      NEW YORK NY                   UNITED STATES
      INDEXING FOR INI BEGAN WITH V1N1,SPRING
      1987.  INDEXING FOR IM BEGAN WITH
      V7N1,SPRING 1993.
      W1 SC228                      0889-7182
      SR0054836                     JC: SIN
         SPRINGER PUBLISHING COMPANY INC,536
         BROADWAY,NEW YORK NY  10012

## TITLE CHANGES, JANUARY-FEBRUARY 1993

INI   AWHONN VOICE
      AWHONN VOICE
      1,1993—
      AWHONN, THE ASSOCIATION OF WOMENS HEALTH,
      OBSTETRIC, AND NEONATAL NURSES
      WASHINGTON DC                 UNITED STATES
      CONTINUES: NAACOG NEWSLETTER.
      INDEXING BEGAN WITH V1N1,JAN 1993.
      IN PROCESS                    1066-2944
      SR0076392                     JC: BOY

IM    BIOCHEMISTRY AND MOLECULAR BIOLOGY INTERNATIONAL
      BIOCHEM MOL BIOL INT
      29,1993—
      HARCOURT BRACE JOVANOVICH
      MARRICKVILLE                  AUSTRALIA
      CONTINUES: BIOCHEMISTRY INTERNATIONAL.
      ON ORDER
      SR0076206                     JC: BOD

IM    CANADA COMMUNICABLE DISEASE REPORT
      CAN COMMUN DIS REP
      18N1,JAN 17 1992—
      CANADA COMMUNICATIONS GROUP PUBLISHING
      OTTAWA                        CANADA
      TWICE A MONTH.
      CONTINUES: CANADA DISEASES WEEKLY REPORT.
      INDEXING BEGAN WITH 18N1,1992.
      W1 CA467                      1188-4169
      SR0075129                     JC: BO5

IM    CANADIAN JOURNAL OF APPLIED PHYSIOLOGY
      CAN J APPL PHYSIOL
      18N1,MAR 1993—
      HUMAN KINETICS PUBLISHERS
      CHAMPAIGN IL                  UNITED STATES
      THE OFFICIAL PUBLICATION OF THE CANADIAN
      SOCIETY FOR EXERCISE PHYSIOLOGY / SOCIETE
      CANADIENNE PHYSIOLOGIE DE L EXERCISE.

      CONTINUES: CANADIAN JOURNAL OF SPORT
      SCIENCES.
      INDEXING BEGAN WITH V18N1,MAR. 1993.
      ON ORDER                      1066-7814
      SR0076381                     JC: BOT

IM    CELL BIOLOGY INTERNATIONAL
      CELL BIOL INT
      17,1993—
      ACADEMIC PRESS
      LONDON                        ENGLAND
      CONTINUES: CELL BIOLOGY INTERNATIONAL
      REPORTS.
      INDEXING BEGAN WITH V17N1,1993.
      ON ORDER-TITLECHANGE  1065-6995
      SR0076576                     JC: BPN

IM    CENTRAL EUROPEAN JOURNAL OF PUBLIC HEALTH
      CENT EUR J PUBLIC HEALTH
      37,1993—
      CZECH MEDICAL SOCIETY
      PRAGUE                        CZECHOSLOVAKIA
      CONTINUES: JOURNAL OF HYGIENE, EPIDEMIOLOGY,
      MICROBIOLOGY AND IMMUNOLOGY.
      INDEXING BEGAN WITH V37N1,1993.
      ON ORDER
      SR0076467                     JC: BO6

HLI   HEALTH CARE REFORM WEEK
      HEALTH CARE REFORM WEEK
      21N42,NOV 9 1992—
      UNITED COMMUNICATIONS GROUP
      ROCKVILLE MD                  UNITED STATES
      CONTINUES: HEALTH POLICY WEEK.
      INDEXING BEGAN WITH V21N42,NOV 9 1992.
      IN PROCESS                    1067-2214
      SR0076353                     JC: BOP

## TITLE CHANGES, JANUARY-FEBRUARY 1993

HLI    JOURNAL OF HEALTHCARE DESIGN
J HEALTHC DES
4,199?—
NATIONAL SYMPOSIUM ON HEALTHCARE DESIGN
MARTINEZ CA        UNITED STATES
CONTINUES: JOURNAL OF HEALTHCARE
INTERIOR DESIGN.
INDEXING BEGAN WITH V4, 1992.
AHA
SR0076208        JC: BOL

IDL    JOURNAL OF OROFACIAL PAIN
J OROFACIAL PAIN
7,1993—
QUINTESSENCE
CAROL STREAM IL     UNITED STATES
CONTINUES: JOURNAL OF CRANIOMANDIBULAR
DISORDERS.
INDEXING BEGAN WITH 1993.
ON ORDER        1064-6655
SR0076460        JC: BO4

IM    NUCLEAR MEDICINE AND BIOLOGY
NUCL MED BIOL
20,1993—
PERGAMON PRESS
OXFORD        ENGLAND
CONTINUES: INTERNATIONAL JOURNAL OF
RADIATION APPLICATIONS AND INSTRUMENTATION.
PART B, NUCLEAR MEDICINE AND BIOLOGY.
INDEXING BEGAN WITH V20N1,JAN 1993.
IN PROCESS
SR0076350        JC: BOO

IM    PHARMACY WORLD AND SCIENCE
PHARM WORLD SCI
15,1993—
KNMP (ROYAL DUTCH ASSOCIATION FOR THE
ADVANCEMENT OF PHARMACY)
THE HAGUE        NETHERLANDS
OFFICIAL JOURNAL OF THE ROYAL DUTCH
ASSOCIATION FOR THE ADVANCEMENT OF
PHARMACY. OFFICIAL JOURNAL OF THE
EUROPEAN SOCIETY OF CLINICAL PHARMACY.
CONTINUES: PHARMACEUTISCH WEEKBLAD.
SCIENTIFIC EDITION.
INDEXING BEGAN WITH V15N1, 1993.
ON ORDER        0928-1231
SR0076472        JC: BO7

IDL    PHILLIP JOURNAL
PHILLIP J
6,1989—
VERLAG NEUER MERKUR GMBH
MUNCHEN        GERMANY
CONTINUES: PHILLIP JOURNAL FUR
RESTAURATIVE ZAHNMEDICIN.
PUBLISHED BY: PHILLIP VERLAG GMBH (1989-
MAY 1991); VERLAG NEUER MERKUR GMBH (OCT
1991)- .
FREQUENCY VARIES: BIMONTHLY, VOLS. 6-8N3
(1989-MAY 1991); TEN ISSUES PER YEAR, VOL.
8N4 (OCT 1991)- .
INDEXING BEGAN WITH V6N1,1989.
IN PROCESS
SR0076504        JC: BPB

IM    PNEUMONOLOGIA I ALERGOLOGIA POLSKA
PNEUMONOL ALERGOL POL
59,1991—
S.N.
WARSZAWA        POLAND
SOME VOLS. HAVE SUPPLEMENTS.
CONTINUES: PNEUMONOLOGIA POLSKA.
INDEXING BEGAN WITH V59,1991.
W1 PN2897        0867-7077
SR0076217        JC: BOM

IM    ROMANIAN JOURNAL OF INTERNAL MEDICINE
ROM J INTERN MED
29N1/2,JAN/JUN 1991—
EDITURA ACADEMIEI ROMANE
BUCURESTI        ROMANIA
CONTINUES: MEDECINE INTERNE.
INDEXING BEGAN WITH V29N1/2,JAN/JUN 1991.
IN PROCESS        1220-4749
SR0076376        JC: BOS

INI    VIGILANDO
VIGILANDO
FALL 1991—
ALUMNI ASSN. OF THE JOHNS HOPKINS
UNIVERSITY SCHOOL OF NURSING
BALTIMORE MD        UNITED STATES
ALUMNI MAGAZINE OF THE JOHNS HOPKINS
HOSPITAL SCHOOL OF NURSING.
CONTINUES: JOHNS HOPKINS ALUMNI NURSES
MAGAZINE. ONLY ONE ISSUE PUBLISHED IN 1991.
INDEXING BEGAN WITH FALL,1991.
IN PROCESS
SR0072702        JC: BO2

## TITLES NO LONGER INDEXED, JANUARY-FEBRUARY 1993

HLI    ACTA HOSPITALIA
      ACTA HOSP
      1,1961—
      BELGISCH MINISTERIE VAN NATIONALE OP
      VOEDING EN NEDERLANDSE CULTUUR
      LOUVAIN            BELGIUM
      INDEXING BEGAN WITH V17N4, WINTER 1977.
      INDEXING CEASED WITH V32N4, 1992.
      W1 AC811          0044-6009
      A05970000         JC: OU4

IM    CELL BIOLOGY INTERNATIONAL REPORTS
      CELL BIOL INT REP
      1,1977-16,1992
      ACADEMIC PRESS
      LONDON            ENGLAND
      FREQUENCY VARIES: BIMONTHLY, VOLS. 1-2
      (1977-1978); 9Y, VOL. 3 (1979); MONTHLY,
      VOL. 4 (1980)- .
      INDEXING BEGAN WITH V1N1,JAN 1977.
      W1 CE128G        0309-1651
      C10720000         JC: CRC

IM    GIORNALE ITALIANO DI CHEMIOTERAPIA
      G ITAL CHEMIOTER
      1,1954-36,1989
      EDIZIONI MINERVA MEDICA
      TORINO             ITALY
      PUBLICATION SUSPENDED 1959-61.
      INDEXING FOR ONLINE FILES BEGAN WITH
      11N4,OCT-DEC 1964.
      W1 GI769           0017-0445
      G08580000         JC: FBJ

IM    NURSING FORUM
INI    NURS FORUM
      1,1961—
      NURSECOM INC
      PHILADELPHIA PA        UNITED STATES
      PUBLISHER VARIES: NURSING PUBLICATIONS,
      VOLS. -23 ( -1988); NURSECOM, VOL. 24 (1989)- .
      INDEXING FOR ONLINE FILES BEGAN WITH
      V4N2,1965. INDEXING FOR IM CEASED WITH
      V27N4,OCT-DEC, 1992. THIS TITLE IS STILL
      INDEXED FOR INI.
      W1 NU597          0029-6473
      N34800000         JC: O95

IM    SANTE PUBLIQUE
      SANTE PUBLIQUE (BUCUR)
      1N1,JAN/MAR 1958-33N1,JAN/MAR 1990
      EDITURA MEDICALA
      BUCURESTI          ROMANIA
      INDEXING FOR ONLINE FILES BEGAN WITH
      V.8N1,1965.
      W1 SA832          0048-9107
      S04280000         JC: U9T

IM    SUPPLEMENT TO INTERNATIONAL JOURNAL OF
POP   GYNECOLOGY AND OBSTETRICS
      SUPPL INT J GYNECOL OBSTET
      1,1989-3,1989
      ELSEVIER
      LIMERICK          IRELAND
      COVER TITLE: INTERNATIONAL JOURNAL OF
      GYNECOLOGY AND OBSTETRICS. SUPPLEMENT.
      SUPPLEMENT TO: INTERNATIONAL JOURNAL OF
      GYNAECOLOGY AND OBSTETRICS. LATER
      SUPPLEMENTS ISSUED WITH NUMBERING OF
      JOURNAL AND SHELVED AT THAT LOCATION AT
      NLM.
      INDEXING BEGAN WITH V1,1989.
      W1 IN766TA       0020-7292
      SR0066552         JC: AHM

IM    ZEITSCHRIFT FUR MIKROSKOPISCH-ANATOMISCHE
      FORSCHUNG
      Z MIKROSK ANAT FORSCH
      1,1924-104,1990
      AKADEMISCHE VERLAGSGESELLSCHAFT GEEST
      AND PORTIG KG
      LEIPZIG           GERMANY
      AT HEAD OF TITLE, BD.3- JAHRBUCH FUR
      MORPHOLOGIE UND MIKROSKOPISCHE
      ANATOMIE, 2. ABT. MONOGRAPHIC SUPPLEMENTS
      ACCOMPANY SOME VOLUMES.
      INDEXING FOR ONLINE FILES BEGAN WITH
      V72N2,1965.
      W1 ZE464          0044-3107
      Z04540000         JC: XYA

## THE FOLLOWING TITLE WAS RECATALOGED

IM    PRINCESS TAKAMATSU SYMPOSIA
      PRINCESS TAKAMATSU SYMP
      1971?—
      UNIVERSITY PARK PRESS
      BALTIMORE MD                    UNITED STATES
      VOLS. 3-10 CLASSED SEPARATELY IN NLM.
      IMPRINT VARIES.
      INDEXING BEGAN WITH V12,1982.
      W3 TA163
      I34000000                       JC:  HHI

      FORMERLY CATALOGED AS:

      INTERNATIONAL SYMPOSIUM OF THE PRINCESS
      TAKAMATSU CANCER RESEARCH FUND

      OTA:  INT SYMP PRINCESS TAKAMATSU CANCER
      RES FUND

## THE FOLLOWING TITLE WAS COLLAPSED AND THE ENTRY BELOW WAS DELETED.

IDL   TYDSKRIF VAN DIE TANDHEELKUNDIGE
      VERENIGING VAN SUID AFRIKA
      TYDSKR TANDHEELKD VER S AFR
      27,1972—
      DENTAL ASSOCIATION OF SOUTH AFRICA
      CAPE TOWN                       SOUTH AFRICA
      CONTINUES:  JOURNAL OF THE DENTAL
      ASSOCIATION OF SOUTH AFRICA.
      TITLE ALSO IN ENGLISH:  JOURNAL OF THE
      DENTAL ASSOCIATION OF SOUTH AFRICA.
      VOL. 35, NUMBER 2 (FEB, 1980) HAS ENGLISH
      TITLE ONLY.
      W1 TY119                        0011-8516
      T28780000                       JC:  VZY

### THE CURRENT ENTRY IS:

IDL   JOURNAL OF THE DENTAL ASSOCIATION OF
      SOUTH AFRICA
      J DENT ASSOC S AFR
      8N6,1953—
      DENTAL ASSOCIATION OF SOUTH AFRICA
      CAPE TOWN                       SOUTH AFRICA
      CONTINUES: OFFICIAL JOURNAL / DENTAL
      ASSOCIATION OF SOUTH AFRICA.
      RUNNING TITLE: JOURNAL OF THE D.A.S.A. -
      TYDSKRIF VAN DIE T.V.S.A.  TITLE ALSO IN
      AFRIKAANS: TYDSKRIF VAN DIE TANDHEELKUNDIGE
      VERENIGING VAN SUID AFRIKA.
      ORDER OF TITLE VARIES, JAN. 1972-   .
      INDEXING BEGAN WITH V20N6, JUN 15 1965.
      W1 JO918D                       0011-8516
      J18460000                       JC:  HX3

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