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<th>DATABASE</th>
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<th>DATES COVERED</th>
<th>DATE LAST UPDATED</th>
<th>LATEST UPDATE TAG</th>
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**TOXLINE** 546,148

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</table>

* = AVAILABLE ONLY THRU OFFSEARCH

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National Library of Medicine
Bldg. 38A, Rm. 4N421
Bethesda, Maryland 20209
TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the 1982 Online Services Reference Manual that is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

SDI SERVICE ON AVLINE/CATLINE/POPLINE (Manual 5.2.5)

- Automatic SDI Service on AVLINE, CATLINE, and POPLINE will begin with the April 1983 updates. See the articles on pages 5, 6 of this issue for details. The SDI charge of $1.00/search/database, as well as the $.18 per page charge, will apply to these searches.

CLINPROT UPDATED MONTHLY (Manual 18.1)

- Beginning with the February 1983 update, the CLINPROT database will be updated monthly. This will bring CLINPROT into conformity with the PDQ database which is also updated monthly. The PDQ and CLINPROT databases are closely related; PDQ contains the active, NCI-supported protocols from CLINPROT.

FOR (LA) TAG (Manual 7.3.15)

- The tag, FOR (LA), appears only on citations to articles that are written in a language other than English. Citations to articles that are bilingual, trilingual, etc., but where English is not one of the languages, also receive this tag. A citation to a bilingual article where one of the languages is English, however, does not receive the FOR (LA) tag. This means that the following two strategies retrieve the same citations:

  HEART DISEASES AND ENG (LA)

  HEART DISEASES AND NOT FOR (LA)

Both retrieve all citations to articles on HEART DISEASES and in the English language; citations to bilingual, trilingual, etc. articles on HEART DISEASES are also retrieved provided one of the languages of the article is English. The 'AND NOT FOR (LA)' strategy results in fewer time overflows and may therefore be preferable in some instances. The strategy:

  HEART DISEASES AND FOR (LA)

retrieves only citations to articles exclusively written in languages other than English.

NEW SORT FORMAT - FOR TOXLINE SDIs (Manual 5.2.5)

- Beginning with the April update, the default SORT format for TOXLINE automatic SDI printouts will be AUTI rather than JNL. The citations will print out in alphabetical order by the first author's surname; two or more items with the same author(s) will be further sorted in alphabetical order by the first word of the title. If you wish to receive printouts sorted by journal title rather than by author's name, please contact MEDLARS Management Section before April 20.
Because of the great importance of this subject, NLM has added this heading to MeSH, effective immediately. Citations containing the heading will begin appearing in the database with the 8306 (EM) update to MEDLINE. Searchers are cautioned, however, that only new citations will contain the heading. Text Words and/or IMMUNOLOGIC DEFICIENCY SYNDROMES, the heading under which this concept was formerly indexed, should continue to be used to ensure complete retrospective retrieval on the subject. You may update your 1983 MeSH with the following information:

**ACQUIRED IMMUNODEFICIENCY SYNDROME**

C20.673.65

(83)

X Immunodeficiency Syndrome, Acquired

X Immunologic Deficiency Syndrome, Acquired

X AIDS

The Toxicology Data Bank (TDB) was updated on February 28, 1983. The file now contains 4,021 records of which 3,231 are complete. Of the completed records, 1,117 were revised in the 1980-1982 period. Listings of compounds whose records appear in the TDB will be sent to users who have requested them previously. Other users may obtain these listings by writing the Toxicology Information Program, National Library of Medicine.

The List of Journals Indexed in Index Medicus, 1983 (LJI) may now be ordered from the Government Printing Office, Washington, DC 20402 (expected publication date: early April). The price is $7.00 (domestic) or $8.75 (foreign); the Stock Number is 017-052-00239-2. Remittance should accompany orders.

Since 1981, each quarterly issue of the NLM Current Catalog, has contained an appendix of "Notes for Medical Catalogers" - articles and news announcements describing the cataloging policies, procedures, and bibliographic databases of NLM's Cataloging Section, Technical Services Division. The four sections of Notes published in 1982 have been reprinted as one report which can be ordered from the National Technical Information Service (Springfield, VA 22161). Order by full title and accession number - Notes for Medical Catalogers, 1982 (PB83-170860). Price: $11.00 ($4.50 microfiche). The 1981 issue of Notes is also available from NTIS: PB82-196569, $13.50 ($4.50 microfiche).
EXPANSION OF AUTOMATIC SDI SERVICE: AVLINE, CATLINE, AND POPLINE
Sheila T. Proudman, MEDLARS Management Section, NLM

Automatic SDI service is now available on three more NLM databases: AVLINE, CATLINE, and POPLINE. If you have one or more search strategies that are routinely used on any of these databases, you can now store the searches with automatic SDI names, send in an automatic SDI request form for the desired database(s), and begin receiving monthly printouts.

Service on these databases will begin with the April entry month. POPLINE is usually updated the second weekend of the month; automatic searches will be processed the week following each update. The update tag for POPLINE is the same as the month in which the update takes place: for example, the April update will occur April 9-10, and the tag will be 8304 (EM). AVLINE and CATLINE automatic SDI searches will be processed monthly; they will be run during the first week of each month and will contain items entered into the databases during the previous month. Thus, the searches you receive in May will contain items entered during April, and the cover message will say "8304 Entry Month."

Before storing any automatic SDI search it is helpful to review the STORESEARCH procedure, particularly the naming rules, found in PART 5.2 of the Online Services Reference Manual. On the back of the automatic SDI request form enclosed with this issue you will find specifications for the first five characters of an automatic SDI search name. These must always consist of: a single letter to designate which database (A for AVLINE, B for CATLINE, P for POPLINE) the search is to be run against, a three-digit number to designate the PRINT and SORT format for the printout, and a space. PRINT or SORT formats for these three databases can be changed for any number range; use the lines provided on the front of the form to describe the format(s) you wish. To begin service, submit only one form per database regardless of how many searches will be stored. There will be a one dollar ($1.00) charge per automatic SDI search per database each month, plus page charges for the printouts.

Read the other articles in this issue of the Technical Bulletin offering search hints for automatic SDI searches on these three databases.

*****

AUTOMATIC SDI SERVICE FOR AVLINE AND CATLINE
Alice E. Jacobs, AVLINE Coordinator, NLM

Beginning in April 1983, NLM's Automatic SDI Service will be expanded to include the AVLINE and CATLINE databases (see announcement on page 5 of this issue). Monthly printouts of citations from these files will be particularly useful in providing subject-oriented lists of books or audiovisuals to faculty or acquisitions staff.

In order for a stored search to be 'found' by the computer when the monthly automatic SDIs are generated, special naming conventions (see the Online Services Reference Manual, Part 5.2.5) must be followed and caveats for the AVLINE and CATLINE stored search formulations, outlined below, are advised.
In addition, a separate "NLM Automatic SDI Service Request Form" for each database must be completed and sent to MMS. Therefore, if automatic SDIs for both AVLINE and CATLINE are to be initiated, two forms must be submitted. A copy of the form, revised to include SDI specifications for three additional databases (AVLINE, CATLINE, and POPLINE), is enclosed with this issue.

AVLINE automatic SDIs will be processed each month against all citations within the range of dates of entry added during the month. For example, April 1983 AVLINE automatic SDIs will cover entry dates between 830401 and 830430. The searches will be processed on the first Monday of the following month. Because of the relatively small size of the AVLINE database, users are advised that stored searches should be formulated by EXPLODING on broad MeSH terms, preferably those marked in the MeSH publications by a large black dot. This dot indicates that these terms are Pre-Explosions in MEDLINE AND HEALTH; since Pre-Explosions are not available in AVLINE, it is necessary to use the EXPLODE TERM capability. These are the subject terms most likely to provide a retrieval when EXPLODED in AVLINE because they encompass a number of additional terms in the hierarchy of the Medical Subject Headings Tree Structures.

CATLINE automatic SDIs will also be processed monthly against the date of entry range for the month, excluding any retrospective records. Limited cataloging records will be retrieved unless excluded from the stored searches with the Boolean statement "AND NOT L (EL)" in the stored search formulation. This is left to the user's discretion. Remember that PRT CC (Catalog Card) is not available as an offline print option. CATLINE searches will also be processed the first Monday of the following month.

For further details on preparing stored searches, please refer to Part 5 of the Online Services Reference Manual.

*****

POPLINE AUTOMATIC SDI CAPABILITY
Ann J. Preiss, The Johns Hopkins University and MEDLARS Management, NLM

POPLINE automatic SDI service will become available in April 1983 (see announcement on page 5 of this issue). Naming conventions must be followed as always. POPLINE automatic SDIs will be processed during the second week of each month following the regular file update.

Searchers interested in having monthly updates on specific topics relevant to this database are reminded to use the POPLINE vocabulary assigned in indexing the citations when appropriate. These terms are identified as Keywords (KW) in the records. For example, a search on the current topic of Depo-Provera can best be accomplished by searching with DEPO-PROVERA (KW). If the term is not qualified, the searcher will receive an NP (No Postings) message as this Keyword is not mapped to MeSH due to the chemical records in the MeSH Vocabulary File. (See Section 24.4.15 of the Online Services Reference Manual for a more detailed explanation.) For most Keywords, if the term is not qualified it will map to a corresponding MeSH heading, which may cover a broader subject area than the specific Keyword. For example, a search on the Keyword CERVICAL CAP, unqualified, will map to the MeSH heading CONTRACEPTIVE DEVICES, FEMALE, retrieving articles that are about any type of female contraceptive device, not just cervical caps.
The National Health Planning Information Center (NHPIC) in cooperation with the NLM is adding 9,451 document citations to the HEALTH file with the May 1983 update on April 11. The documents cited are all English, non-journal publications in the health planning area and have been previously cited in Weekly Government Abstracts: Health Planning Series which is published by NTIS. Most of the documents are technical reports; the remainder are monographs, monographic chapters, or theses. The years of publication covered in this retrospective addition are 1975-1981, and the MeSH headings correspond to the 1983 MeSH Vocabulary.

Searching

In general the NHPIC citations resemble the records already present in the HEALTH file (see sample record below). Many of the data elements are exactly the same, e.g., Author (AU), Title (TI), Abstract (AB). However, because the data were converted into ELHILL format from a previously automated format, some differences in presentation of the data do exist, notably in the Source (SO) field. Also, new data elements and new valid search values for old ones have been defined, and the print and sort formats have been revised (see summary tables below).

Because these NHPIC records are indexed with MeSH and enhanced with abstracts, general searching strategy remains the same, i.e., MeSH heading/subheading searching, explosions, pre-explosions, and Text Words. Special search features of the NHPIC records include document ordering numbers and procurement sources, publication types, and corporate names. The abstracts present on the NHPIC records were not written by the authors but rather were prepared by various organizations. Possible values in the AA (Abstract Author) field are:

- APHA for American Public Health Association;
- ERIC for Educational Resources Information Center;
- NHPIC for National Health Planning Information Center; and
- NTIS for National Technical Information Service.

In order to retrieve all citations with abstracts online, a searcher must enter the following:

```
USER:
(AA) APHA OR ERIC OR NHPIC OR NTIS OR AUTHOR OR AAMC
```

and AND the result with the subject search.

The values 'AUTHOR' and 'AAMC' are already present in HEALTH for the MEDLINE- and American Hospital Association-derived records. If limiting searches to citations with abstracts online is a routine part of your searching, you may wish to consider a SAVESEARCH of the above strategy and name it ABSTRACTS or AA. It would be much simpler to enter 'AND ABSTRACTS (SN)' than to type the lengthy statement.
Automatic SDI Program/SORT Formats

The addition of the NHPIC data to HEALTH affects the Automatic SDI Program in three ways: 1. The NHPIC data will be retrieved in the automatic SDIs for the 8305 Entry Month, so resulting printouts for that month may be larger. (At this time, future additions of NHPIC-produced data to the HEALTH file are uncertain.) 2. The preceded JNL (i.e., Journal) SORT format, which is the default for HEALTH automatics, has been changed from 'TA A, DP D, VI D, IP D, PG A' to 'TA A, DP D, IM A, VI D, IP D' in order to accommodate these non-journal NHPIC citations. Two other preceded SORT formats were also altered (see summary table). 3. The specific print number ranges will include the new NHPIC data elements as appropriate. In particular, the H401-600 range has been changed to PRT FU INCLUDE TT, AB and now subsumes all data elements added to PRT FU, i.e., SI, CN, SA, TC, OD, and PC (see summary table).

Document Delivery

The NHPIC documents cited may be in the NLM collection and available for loan under standard interlibrary loan procedures. A CATLINE search should be done for verification purposes. However, most NHPIC citations do carry a Procurement Source (PC) and Order Number (OD) data element. By contacting the entity in the PC field, you can order a copy of the document for a fee using the number in the OD field. The following are the current PC codes and addresses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Address</th>
</tr>
</thead>
</table>
| NTIS | National Technical Information Service  
5285 Port Royal Road  
Springfield, VA 22161 |
| UMI | University Microfilms International  
300 N. Zeeb Road  
Ann Arbor, MI 48106 |
| GPO | Superintendent of Documents  
U.S. Government Printing Office  
Washington, DC 20402 |
| ERIC | ERIC Document Reproduction Service  
P.O. Box 190  
Arlington, VA 22210 |

Access to this substantive, non-journal literature of the health planning field should be helpful to the NLM user community. Detailed replacement pages for the HEALTH chapter of the Online Services Reference Manual will be mailed with a future NLM Technical Bulletin.

Tables and sample record follow...
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<th>Comment</th>
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<td>'C' indicates a contract; 'G' indicates a grant.</td>
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<td>*,TW</td>
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<tr>
<td>CO</td>
<td>Collation</td>
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<td>Total number of pages.</td>
</tr>
<tr>
<td>GN</td>
<td>General Notes</td>
<td></td>
<td>Supplemental notes concerning related documents, special identification numbers, etc.</td>
</tr>
<tr>
<td>IM</td>
<td>Imprint</td>
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<td>Place of publication: Publisher, Date.</td>
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<tr>
<td>MI</td>
<td>Monographic Information</td>
<td>TW</td>
<td>IN: statement identifying the parent work.</td>
</tr>
<tr>
<td>MT</td>
<td>Main Entry Type</td>
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<td>'C' indicates Corporate Author; 'P' indicates Personal Author; 'T' indicates Title.</td>
</tr>
<tr>
<td>OD</td>
<td>Order Number</td>
<td>*</td>
<td>Number used for vendor-supplied documents by which said documents may be ordered. See also PC field.</td>
</tr>
<tr>
<td>PC</td>
<td>Procurement Source</td>
<td>*</td>
<td>Code for vendor from which document can be obtained. Valid values are: NTIS, ERIC, UMI, and GPO. Addresses in text of article. See also OD field.</td>
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<tr>
<td>PT</td>
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<td>*</td>
<td>Valid values are: Technical Report; Monograph; Monograph Chapter; and Thesis. N.B. There is no tag for journal article.</td>
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<tr>
<td>SA</td>
<td>Supporting Agency</td>
<td>*,TW</td>
<td>Names of sponsors/organizations other than the primary corporate name that is in the CN field.</td>
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<td>SE</td>
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### SUMMARY TABLE OF NEW DATA ELEMENTS FOR NHPIC RECORDS

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<td></td>
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<td></td>
<td>N.B. This tag is currently on NHPIC records only ('NP' stands for NHPIC). It can be searched in two ways - the entire value or the value preceding the slash, e.g.: NP/023223 (SI) NP (SI)</td>
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<td></td>
<td>The latter method would retrieve the complete NHPIC subset.</td>
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<td>Source</td>
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<td>This field is not new, but has been extensively revised to include the non-journal source data elements. The SO field is now a composite of the following fields: TA, MI, DP, IM, VI, IP, PG, CO, SE. The presentation of these component parts varies according to publication type and, in some cases, includes redundant year data. The redundancy was necessary to ensure the creation of the searchable Year (YR) field.</td>
</tr>
<tr>
<td>TC</td>
<td>Title Continuation</td>
<td>TW</td>
<td>Additional or supplemental title information; often consists of phrases such as 'Final Report.'</td>
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* = directly searchable  
TW = Text Word searchable

### SUMMARY TABLE OF PRECODED SORT FORMAT CHANGES FOR HEALTH

<table>
<thead>
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<th>New Format</th>
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SUMMARY TABLE OF REVISED PRINT COMMANDS FOR HEALTH

PRT: SI, AU, CN, TI, OD, PC, SO

PRT FU: SI, AU, CN, SA, TI, TC, OD, PC, LA, MH, CA, SO


PRT AR: SI, AU, CN, TI, OD, PC, AB, SO

SAMPLE NHPIC RECORD

1
SI - MP/028053
AU - Tyrnan EA; Landes D; Hughes CN; Holub DT; Breed LD
CN - Colorado Univ. Health Sciences Center, Denver.
DO - HRP-090314777
PC - NTIS
LA - Eng
PT - Technical Report
MH - Hospital Planning: Utah; Texas; Iowa; South Dakota; Rural Health; Long Term Care; Hospital Bed Capacity
ID - SSA-600-77-0051
AW - C
CN - See also Volume 1, PB81-132334.
CO - 290 p.
SE - DHMS publication; no. (HCFA) 81/03063
DP - 1981 Mar
UI - 05002171
ZN - Z1.107.567.875
MT - C
AA - NTIS
EM - 8305
AB - The report series on the evaluation of the swing-bed experiments in Utah, Texas, Iowa, and South Dakota consists of several documents, all of which are listed in the 'References' section of this report. This document is the second of two volumes which contain final results of the evaluation of these swing-bed projects: the two Reducing Acute Care Costs (RACC) experiments in Texas and western Iowa/South Dakota; and the Iowa Swing-Bed Project (ISBP) in central Iowa. Volume I, the summary report, describes the overall findings and implications of the evaluation and is intended for a non-technical audience. This volume is the technical report and contains, in addition to findings and implications, a discussion of the methodological aspects of the evaluation including data sources and statistical methods.
SO - 1981 Mar; 290 p. (DHMS publication; no. (HCFA) 81/03063)
INITIAL ONLINE TRAINING CLASSES - RML 4 AND RML 7
Patricia E. Clark, MEDLARS Management Section, NLM

The National Library of Medicine has awarded contracts to two Regional Medical Libraries for the purpose of conducting NLM Initial Online Services Training classes. The Regional Medical Library Program (RML 4) at the University of Nebraska in Omaha and the Pacific Southwest Regional Medical Library Service (RML 7) at the University of California in Los Angeles are the recipients of these contracts. The contracts were awarded for three years effective March 1, 1983.

Initial Training classes offered by these two RMLs will provide the same agenda and course content as the Initial classes at NLM. Completion of these classes fulfills the requirement of attending training before a MEDLARS access code is awarded. In addition, the Medical Library Association continuing education credits in the form of contact hours are available based upon attendance at the classes sponsored by these RMLs.

In February, the National Library of Medicine adopted a modularized format for its Initial Training class (see NLM Technical Bulletin, November 1982). Both Omaha and UCLA teaching personnel will also utilize the modular format.

The Midcontinental Regional Medical Library in Omaha and the Pacific Southwest Regional Medical Library Service at UCLA will serve as national training centers. Therefore, online users from any region are eligible to attend training classes offered by these centers. Although the site and the instructors for the Initial classes will be sponsored by the two RMLs, the scheduling and registration of participants for all classes will continue to be handled by the National Library of Medicine. Upon completion of a training application, please send the form to the MEDLARS Management Section, NLM. A copy of the application form was included in the November 1982 NLM Technical Bulletin, or it may be obtained from MMS.

The following is the revised April to December 1983 schedule of classes, which incorporates NLM's current schedule of classes with those new training sites.

See schedule next page . . .
# NLM ONLINE SERVICES TRAINING

## TENTATIVE

### 1983 SCHEDULE

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The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

BONE AND MINERAL RESEARCH ANNUAL
1,1982-
EXCEPTRA MEDICA
AMSTERDAM NETHERLANDS
IN PROCESS
B31070000
$60.75

CHILD AND FAMILY BEHAVIOR THERAPY
4N1,SPRING 1982-
HAWORTH PRESS
CONTINUES: CHILD BEHAVIOR THERAPY.
NEW YORK UNITED STATES
HAWORTH PRESS INC., 26 EAST 22ND STREET,
NEW YORK NY 10010
IN PROCESS
C18030000

CLINICAL PROGRESS IN PACING AND ELECTROPHYSIOLOGY
1N1,MAR 1983-
FUTURA PUBLISHING
MT KISCO NY UNITED STATES
ON ORDER
C26605000
$40.00

DIRECTIONS IN PSYCHIATRY
1,1981?-1982
HATHERLEY COMPANY
NEW YORK UNITED STATES
DIRECTIONS IN PSYCHIATRY, 420 E 51 ST, NEW YORK 10022
ON ORDER
D11107000

INTERNATIONAL JOURNAL OF DEVELOPMENTAL NEUROSCIENCE
1,1983-
PERGAMON
OXFORD ENGLAND
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I26745000
$150.00

INTERNATIONAL JOURNAL OF TISSUE REACTIONS
2N2, JUN 1980-
BIOSCIENCE EDPRINT
CONTINUES: INTERNATIONAL JOURNAL ON TISSUE REACTIONS. CALLED ALSO: TISSUE REACTIONS.
GENEVA SWITZERLAND
TISSUE REACTIONS, SUBN DEPT RUE WINKELRIED 8 1211 GENEVA 1, SWITZERLAND
IN PROCESS
I28245590

INTERNATIONAL WORKSHOP ON ARCHAEBACTERIA
1ST,1981-
GUSTAV FISCHER
STUTTGART GERMANY
GUSTAV FISCHER VERLAG, MOLLGRASER 49, D-7000, STUTTGART, WEST GERMANY
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1,1983-
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JOURNAL OF NUTRITION, GROWTH AND CANCER
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FOOD AND NUTRITION PRESS
WESTPORT CT UNITED STATES
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1,1983-
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CLIFTON NJ UNITED STATES
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CONTINUES NOUVELLE PRESSE MEDICALE.
PARIS FRANCE
IN PROCESS
P24030000
THE NLM TECHNICAL BULLETIN

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2 Files

3 Technical Notes

12 New Serials and Title Changes Announcements - March 1983

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10 AVLINE Update: April 1983

11 Additional Descriptive Materials for the Chemical and Toxicological Files Now Available

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Contents Not Copyrighted • Freely Reproducible

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National Library of Medicine
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* = AVAILABLE ONLY THRU OFFSEARCH

**Editor:** Carolyn B. Tilley  
**Assistant Editor:** Rose Marie Woodsmall  
**Technical Notes Editor:** Patricia E. Healy  
**Production Assistant:** Mildred D. Mader  
301/496-6193  

**Direct Inquiries to:**  
MEDLARS Management Section  
National Library of Medicine  
Bldg. 38A, Rm. 4N421  
Bethesda, Maryland 20209
TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the 1982 Online Services Reference Manual that is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

CATLINE/AVLINE UPDATE SCHEDULE - Effective April 21, 1983, NLM will change the weekly updates of the CATLINE and AVLINE databases to Thursday mornings between 6:00 AM and 8:30 AM Eastern Time. These two databases will be unavailable to online users during this period each Thursday morning. All other databases will be available as scheduled. This new update schedule is a change from the one implemented in September 1981 when CATLINE and AVLINE were updated on Thursday evenings and unavailable to online users between 5:00 PM and 6:30 PM Eastern Time.

TOXLINE SDIs SORT FORMAT - As was pointed out in the March 1983 issue of the NLM Technical Bulletin, the new default SORT format for TOXLINE automatic SDI printouts is AUTI. However, if you have submitted a form specifying elements for searches numbered T701-T800, or overriding the default print elements in any number range, the SORT will remain JNL unless otherwise specified. If you have already specified AUTI as the SORT format, no further action is necessary; but if you have not specified a SORT format for overridden or tailored print elements, then JNL is assumed, and you must notify MEDLARS Management Section if you wish it changed to AUTI.

MEMORIAL DAY - On Monday, May 30, 1983, the NLM computer will be down all day in observance of the Memorial Day holiday.

PROPOSED CANCERLIT CHANGES - The National Cancer Institute (NCI), in cooperation with the NLM, is redesigning the indexing/input flow for CANCERLIT citations. A search profile is being constructed to run against SDILINE. The citations retrieved will be added to CANCERLIT. This will eliminate duplicate indexing and keyboarding at the two institutions. A core list of cancer journals will be identified and labelled as EXPRESS. Citations from these EXPRESS journals will also appear in a new, separate database. CANCERLIT will continue to have citations from sources other than MEDLINE. Watch the online NEWS and future issues of the Technical Bulletin for details on these proposed changes. A tentative implementation date is for late spring/early summer.

PDQ: FREE CONNECT TIME - At the request of the National Cancer Institute, non-billed online access for the PDQ database will be extended through June 1983. OFFSEARCHes will continue to be charged at $1.00; pages for PDQ are $.18 each.
CALL WAITING SERVICE

- It was recently brought to the attention of MEDLARS Management Section that some searchers are using telephones with the "Call Waiting" option to access the MEDLARS system. Since this option causes an interrupt on the telephone communications line when a call is waiting, these users are being routinely disconnected from the system when they receive another call on the same telephone line while connected to MEDLARS. For best results in accessing MEDLARS, a dedicated phone line that does not go through a switchboard or does not have another purpose is desirable.

EXPLODING TERMS

- When Exploding a MeSH Heading in any database that permits it, do not qualify the term being Exploded with (MH), even if MeSH Headings must normally be qualified in that database, e.g., CANCERLIT. All Explosions should be entered without qualifier:

  EXP TERM

Use of the (MH) as a post-qualifier in an Explode causes the Explosion instruction to be overridden and only citations Indexed with that particular MeSH Heading to be retrieved.

UPCOMING REGIONAL TRAINING CLASS

- Searchers in Region 6 (Pacific Northwest RML) should take special note of the upcoming Abbreviated Advanced course in Seattle, Washington from July 6-8, 1983. Individuals from this and other regions who want to attend should contact the MEDLARS Management Section for a training application or use the application included with the November 1982 Technical Bulletin.

Class size is limited to fifty persons, one per institution. Additional persons from the same institution will be admitted if space permits. If submitting applications for more than one searcher, please indicate which searcher has priority for attendance.

PAGINATION ERROR REPORTS FOR MEDLINE

- MEDLARS Management has received a number of pagination error reports for two journals in the MEDLINE database:

  1. Hospital Practice (New York)

  2. Legal Aspects of Medical Practice (New York)

When staff members pulled the journals from the shelf they found that the pagination was correct as reported in MEDLINE for the issue received by the National Library of Medicine. Upon further investigation it was discovered that the publishers
of these two journals publish two discrete copies of each issue: 1) an issue with advertisements sent to most subscribers with these advertisements included in the pagination; and 2) an issue without the advertisements included in the pagination. The latter is the format that NLM receives. The content of these two copies does not differ in any other way. Searchers retrieving citations to these journals should advise their interlibrary loan librarians of this discrepancy so they can note on the loan requests that the journal's Table of Contents should be checked if the article does not appear on the pages indicated. Patrons should also be advised.

At the present time, NLM knows of no other journals that distribute multiple editions, with differing pagination, within the United States. However, some journals publish foreign editions that differ in pagination from the U.S. edition. An example is Nursing (Horsham). Moreover, some U.S. journals publish foreign editions having content that differs from the corresponding U.S. edition. In all cases, the U.S. edition is the only one that is indexed. Users should continue to report pagination errors or any other errors in MEDLINE to MEDLARS Management Section for immediate attention.

Recently the MEDLARS Management Section has received a number of error reports concerning citations from the journal Drug Therapeutics (Drug Ther (TA)). Users have reported that a volume and issue were missing from the Source field of these citations. A volume/issue fails to appear on these citations because this journal is an annual publication with only a year designation and no volume designation. The SERLINE record reflects the accurate information for this journal.

The List of Serials Indexed for Online Users, 1983 may now be ordered from the National Technical Information Service (NTIS). A delivery date of on or about May 1983 is expected. The publication number is PB83-180851; the domestic price is $10.00 hardcopy and $4.50 microfiche.

The annual NLM Online Users Meeting will be held at the Medical Library Association's Annual Meeting on Monday, May 30, 1983, at 12:45 p.m. - 1:30 p.m. in the Venetian Room of the Shamrock Hilton in Houston, Texas. All NLM online users are encouraged to attend.

Appendix B is the revised index to the NLM Technical Bulletin, issues January 1979 through February 1983.
Enclosed as Appendix A are the Date of Entry (DA) ranges for the MEDLINE databases (MED66, MED71, MED75, MED77, MEDLINE). These date ranges correspond to the Index Medicus (IM) year (i.e., a particular annual issue of IM indexed using a particular year's version of the MeSH Vocabulary). These ranges do not necessarily include all the Dates of Entry (DA) actually present in each of these MEDLINE databases. This discrepancy between the Index Medicus date ranges and the actual database date ranges occurs because of the way the backfile databases are created. The MED66 and MED71 backfiles were created by segmenting on the IM Dates of Entry. However, since MED75, citations for backfiles are generally "pulled" by Year of Publication (YR). Therefore, a 1976 citation indexed for Index Medicus in 1977 (meaning it has a 1977 IM Date of Entry) appears in MED75 on the basis of its year of publication; its Date of Entry (DA), however, will be greater than the "official" IM Dates of Entry for MED75.

NOTE: Throughout this article, "Index Medicus year" refers to the year as it is reflected in the MEDLINE database. In MEDLINE, these date ranges include more citations than would be found in a particular annual Index Medicus issue for a subject search. The additional citations come from two sources: 1) journals indexed for the Special Lists (e.g., International Nursing Index, Index to Dental Literature) but not included in Index Medicus, and 2) minor descriptors, and headings that are not the main point of the article (i.e., headings without an asterisk (*)). While citations with these headings are not printed in IM, they are searchable online. Therefore, there may not always be a one-to-one correspondence between an issue of Index Medicus and MEDLINE. Nevertheless, the actual Index Medicus "pull" dates are valid for all citations in MEDLINE regardless of whether or not the citation is an IM citation.

What this means for the searcher is:

1. If you are using the Date of Entry (DA) ranges to segment a MEDLINE database, only the ranging instructions GREATER THAN or LESS THAN should be used. For instance, if you knew a search statement in an OFFSEARCH was going to retrieve more than 500 citations (the OFFSEARCH print limit per search statement is 500 citations), and you wanted all these citations printed, entry dates are one way to segment the retrieval. An example of segmenting a MED75 search statement retrieval in an OFFSEARCH might be:

   *STS* SS 4/C?
   USER:
   3 AND LESS THAN 751120 (DA)

   *STS* SS 5/C?
   USER:
   3 AND GREATER THAN 751119 (DA)
In the SSNOS/OVRIDES? part of the OFFSEARCH, printing of search statements 4, 5 should be requested, rather than printing of search statement 3.  

(NOTE: Both GREATER THAN or LESS THAN ranging instructions are exclusive, meaning the Date of Entry used with the instruction is not searched.  
Searching begins at the Date of Entry following or preceding this number.  
Using the LESS THAN and GREATER THAN strategies neatly divides the retrieval into two parts from the middle regardless of the actual Dates of Entry at either end.)

2. If you are using the Date of Entry (DA) ranges to limit a MeSH Heading search to the Index Medicus years when the heading was valid (e.g., you are searching all the backfiles and the MeSH Heading became a valid search term in 1979), any of the ranging instructions may be used (GREATER THAN _____, LESS THAN _____, FROM _____ TO _____ (DA)). Due to the manner in which the backfiles are created, however, it is expedient, in most cases, to search Dates of Entry using the LESS THAN or GREATER THAN instructions rather than the FROM _____ TO _____ (DA) instruction. This will ensure complete retrieval of all the citations on a subject in MEDLINE or one of its backfiles. (The limitations of the FROM _____ TO _____ (DA) instruction will be discussed later.)

A search for DIZZINESS, which became a MeSH Heading in 1979, illustrates this procedure across MEDLINE and MED77. In MEDLINE (currently 1980 forward coverage), the strategy would simply be:

```
SS 1/C?
USER: DIZZINESS
```

In MED77, however, two strategies would be needed:

```
SS 1/C?
USER: A) DIZZINESS
```

Retrieves all citations indexed with DIZZINESS for 1979 IM or for 1980 IM, or 1981 citations having a publication year of less than 1980, and hence contained in MED77. No need to use a GREATER THAN statement here.

```
B) SS 2/C?
USER: (TW) DIZZY OR DIZZINESS
SS 3/C?
USER: VERTIGO AND LESS THAN 781118 (DA)
```

VERTIGO may sometimes have been used for DIZZINESS before 1979. (Possible previous indexing for DIZZINESS may be found in the PI field of the DIZZINESS record in the MeSH Vocabulary File.) The LESS THAN statement limits VERTIGO to before 1979 IM. Combining with Text Words for DIZZINESS isolates pertinent citations, and helps eliminate false drops.
SS 5/C?
2 AND NOT 4

The requester may also be interested in this subset of citations with relevant Text Words that were not, however, indexed with the MeSH Heading, VERTIGO. This strategy retrieves this subset, but is optional.

Strategy A would retrieve citations to articles indexed with the new term DIZZINESS which came into the system in 1979. (Dates of Entry (DA) for the Index Medicus year 1979 are 781118 through 791026. Dates of Entry greater than the 791026 may be retrieved, however, because articles indexed in the 1980 or 1981 Index Medicus year, with a publication date of 1979, would have been "pulled" from MEDLINE for the backfile MED77.) Strategy B would retrieve citations to articles having titles or abstracts that contain the Text Words DIZZY or DIZZINESS (you may be able to think of additional Text Words to express this concept yourself), and were also indexed to VERTIGO, the heading under which citations to dizziness were indexed prior to 1979. Only citations input into the database in Index Medicus years less than 1979 would be retrieved.

Earlier it was mentioned that there were limitations to the use of the ranging instruction FROM ______ TO ______ (DA). Basically, the instruction FROM ______ TO ______ (DA) is most useful when searching for one specific Index Medicus year, and may have to be repeated in a second database to capture the entire IM coverage. This is because the backfiles MED75 forward were pulled by Year of Publication; therefore an IM issue may span one or more backfiles. For example, a heading introduced in 1977 for which you want to see the retrieval for IM 1977 would require the following steps online:

File MED77
PROG:
YOU ARE NOW CONNECTED TO THE BACK77 FILE.

SS 1 /C?
USER:
SAVESEARCH
PROG:
ENTER SEARCH-

*STS* SS 1 /C?
USER:
INFANT, LOW BIRTH WEIGHT
PROG:
SS (1) PSTG (874)

*STS* SS 2 /C?
USER:
1 AND FROM 761104 TO 771031 (DA)
PROG:
SS (2) PSTG (170)
*STS* SS 3 /C?
USER: FINISHED
PROG: SEARCHNAME?

USER: 1977 IM INFANT LBW
PROG: SEARCH SET FROM SS 1 SAVED AS '1977 IM INFANT LBW'.
SAVESEARCH COMPLETED.

SS 3 /C?
USER: FILE MED75
PROG: YOU ARE NOW CONNECTED TO THE BACK75 FILE.

SS 1 /C?
USER: 1977 IM INFANT LBW (SN)
PROG: TIME OVFLW: CONT? (Y/N)

USER: Y
PROG: SS (1) PSTG (85)

A total of 255 citations for 1977 IM year was retrieved for the term INFANT, LOW BIRTH WEIGHT. This would closely correspond to the number of citations that would be found under this heading in the published version of Cumulated Index Medicus, 1977 (CIM). There would not be a one-to-one correspondence, however, because CIM would not include citations from the Special Lists (Nursing, Dental, etc.) that may be retrieved in any MEDLINE search and would not include articles indexed to INFANT, LOW BIRTH WEIGHT where this concept was not a main point of the article (i.e., the heading was not asterisked (*)).

*****

PLEASE TYPE NEWS TO SEE THE MOST RECENT NEWS ITEMS ONLINE
Limited Cataloging of Audiovisuals

Beginning April 1983, the Technical Services Division has expanded the scope of "Limited Cataloging" as announced in the NLM Technical Bulletin (Apr. 1979, No. 120 and Oct. 1979, No. 126). The concept of a "Limited" level cataloging record, previously developed for selected printed monographs cataloged for CATLINE, will also be applied to most audiocassette titles cataloged for the AVLINE database.

Limited cataloging of audiocassette programs that are primarily recordings of single speeches will be based on information obtained from the label and accompanying printed material rather than from listening to the program. Following the standards used for limited cataloging of monographs, a restricted number of access points will be provided and only one general subject heading will be assigned. Classification numbers will be assigned and shelflisted by the medium code and accession number so that these items may be shelved with the fully cataloged audiovisuals at NLM.

Any bibliographic notes necessary to reflect the audiovisual character of the piece will be included in the limited cataloging record, if readily available. Price and procurement source information will be supplied, as is the case for audiovisual titles given full cataloging in AVLINE.

The AVLINE records for audiocassette titles receiving limited cataloging treatment will contain the note "Limited cataloging" in the first General Note field (GN) and the value "L" (for limited cataloging) in the Encoding Level field (EL). The Encoding Level field is directly searchable. Citations for limited cataloging of audiocassettes will be published regularly in the quarterly and annual issues of the National Library of Medicine Audiovisuals Catalog. Following the publication pattern for limited records of print material cataloged for CATLINE, limited cataloging records for audiocassette titles will not appear in the Audiovisuals Section of the NLM Current Catalog Proof Sheets.

Abstracts for Selected AVLINE Titles

When available, content abstracts prepared by the producer will be provided for selected AVLINE titles that are part of the distribution services of the Audiovisual Resources Section, NLM. AVLINE searchers are advised that no appraisal data will be supplied, even though a descriptive abstract may be present. (Alternatives to the formal AVLINE critical review process which ended March 31, 1982 are still being explored.)

Other File's Unique Identifier (U2)

Since February 1980, records for printed serials in CATLINE carry a searchable tag called the Other Files Unique Identifier (U2) which contains the unique identifier for the SERLINE record of the same title. For consistency, the Other Files Unique Identifier (U2) has been added in AVLINE and CATLINE for audiovisual serials. This field will provide the necessary links between these three databases for NLM processing.
ADDITIONAL DESCRIPTIVE MATERIALS FOR THE CHEMICAL AND TOXICOLOGICAL FILES NOW AVAILABLE

Jeanne C. Goshorn and Miriam Perkins, Specialized Information Services

NLM's Specialized Information Services (SIS) Division has several new explanatory materials available about the NLM Chemical & Toxicological Files. These are:

- A "SAMPLER," which is a 25-page booklet that describes the databases to new or prospective users and provides annotated search examples. Copies are available at no cost from SIS.

- A Slide/Tape Overview that describes the files and support services provided by SIS, and gives sample searches for each file. The presentation contains 39 35mm slides with a 15-minute audiocassette. An abbreviated version, which does not have the sample searches, is also available. It contains 16 slides with a 5-minute cassette. Contact SIS for further information.

- An 11" x 14" multi-colored poster that gives a diagrammatic overview of the files and would be an appropriate handout at meetings, demonstrations, and training sessions. Copies of the poster are available without cost from SIS.

- Updated versions of the pocket cards for each of the NLM Chemical and Toxicological files. These will not be mailed with the Technical Bulletin, but are available at no charge from SIS.

For ordering these items contact:

Specialized Information Services
National Library of Medicine
Bldg. 38A, Rm. 3S320
Bethesda, MD 20209
(301) 496-1131
The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.
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THE NLM TECHNICAL BULLETIN

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* = AVAILABLE ONLY THRU OFFSEARCH
Whenever applicable, the headings of each Technical Note will include a reference to the section of the 1982 Online Services Reference Manual that is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

CHICAGO ADVANCED CLASS RESCHEDULED

Due to an insufficient number of applicants, the Abbreviated Advanced Online Training Class scheduled for May 11-13, 1983 in Chicago, Illinois (Region 3) was cancelled. The class has been rescheduled and will be taught in Chicago on October 26-28, 1983. If you are interested in attending, please contact the MEDLARS Management Section or RML 3 for additional information.

REQUESTING USER ID CODE CANCELLATION

Requests for cancellation of User ID codes must be directed to the MEDLARS Management Section, not the National Technical Information Service (NTIS). NTIS is the billing contractor for NLM but is not empowered to take any action pertaining to User ID codes. In addition to questions regarding user codes, billing questions should also be referred to MMS.

INDEPENDENCE DAY HOLIDAY

On Monday, July 4, 1983, the NLM computer will be down all day in observance of the Independence Day holiday.

UNITED STATES PRE-EXPLOSION: NEW TERMS

The Medical Subject Headings Annotated Alphabetic List, 1983 indicates that the heading, UNITED STATES, is also a Pre-Explosion. Users should be aware, however, that two Pre-Explosions for the United States are available:

1. UNITED STATES (PX) -- retrieves citations with any of the United States listed as a place of publication.

2. UNITED STATES MC (PX) -- retrieves citations with any of the United States listed as a MeSH Heading.

Please annotate the term UNITED STATES in your MeSH to include both Pre-Explosions.

LIST OF SERIALS INDEXED FOR ONLINE USERS, 1983

A Technical Note in the April 1983 Technical Bulletin and a recent online news note have announced the availability of the List of Serials Indexed for Online Users, 1983. The title change this year (the previous title was List of Serials and Monographs Indexed for Online Users) reflects the exclusion of monographic literature from MEDLINE indexing beginning January 1982. Citations to monographs previously indexed have not been deleted from MEDLINE and its backfiles. Monographs were indexed for MEDLINE from 1977 to 1981, inclusively.
Since the List of Serials and Monographs Indexed for Online Users, 1982 contains a complete listing of all the monographs input into MEDLINE in the period 1977 to 1981, searchers may want to keep this section of the publication after purchasing the 1983 edition. Monographs are not listed in the 1983 edition and are unlikely to be included in subsequent editions.

For the first time this year, the List of Serials Indexed for Online Users contains the Journal Title Codes (JC) for the journals included in MEDLINE, HEALTH PLANNING & ADMINISTRATION, and POPLINE. Previously, the only source of Journal Title Codes (JC) was SERLINE. In addition, the Abridged Index Medicus (AIM) titles are indicated in this new edition by an asterisk (*).

CHANGES TO HEALTH FILE SOURCE FIELD - The Source (SO) field for journal articles in the HEALTH file now contains a period after the Title Abbreviation (TA) portion and also a concluding period. For example,


This change does not affect searching or printing procedures for the HEALTH File; it is due to programming changes made necessary when the National Health Planning Information Center (NHPIC) records were added to HEALTH.

CLINPROT INDEX TERM LISTING - The April 1983 listing of CLINPROT Index Terms is now available. It contains a number of significant changes from the March list. These changes affect the way some of these terms (Subject Captions) and their companion Hierarchical Subject Codes may be used in searching CLINPROT. A notice preceding the list of terms explains the changes in detail and their implications for searching. Copies of the CLINPROT Index Terms are available free-of-charge upon request from ICRDB, Westwood Building, Room 10A-18, Bethesda, Maryland 20205 or from the MEDLARS Management Section.

Identical Index Term changes have been made in PDQ, where applicable. However, there is no separate listing of the PDQ changes at this time.

STRINGSEARCHING - TITLES (Manual 4.6.3.1) - When STRINGSEARCHing the titles of a retrieved subset of MEDLINE citations for a word that can appear as the first word of a title, the beginning colon in the STRINGSEARCH instruction should be placed directly up against the first character of the word, e.g., :EVALUATION :. This will assure comprehensive retrieval of all the titles containing the word EVALUATION, such as:

1. Evaluation of a new low pressure drop membrane oxygenator.

An English language title beginning with the word of interest
2. [Evaluation of neoplastic retinal detachment]
   A foreign language title beginning with a bracket followed by the word of interest

3. Treatment of benzimidazole-resistant cyathostomes in horses--evaluation of a paste of febantel plus piperazine
   An English language title with the word of interest within the title preceded by a character of punctuation

4. An evaluation of the anamnestic test for brucellosis in cattle of the northern pastoral area
   An English language title with the word of interest within the title

Use of a space after the initial colon, e.g., : EVALUATION :, would not permit the retrieval of citations 2 and 3 above because of the punctuation; use of the single character variation symbol (#, the hash mark or pound sign) after the colon, e.g., #$EVALUATION : would retrieve all of the above except citation 1, where the word of interest, EVALUATION, appeared as the first word of an English language title.

*****

CANCEREXPRESS: A NEW CURRENT AWARENESS DATABASE FOR PUBLISHED CANCER INFORMATION
John Schneider, Director, ICRDB, NCI

A new database called CANCEREXPRESS is expected to be made available to the NLM online network in June 1983. Since this file can be accessed by entering either FILE EXPRESS or FILE CANCEREXPRESS, it is referred to as EXPRESS throughout this article. This file will contain bibliographic records identifying articles covering all aspects of the therapy, etiology, and biology of cancer as well as studies of mutagenic agents and agents that stimulate cell division. These records are derived from monthly SDILINE updates using a search profile developed by the National Cancer Institute (NCI) and the National Library of Medicine (NLM). EXPRESS is one of a series of technical information products prepared for cancer researchers by the International Cancer Research Data Bank (ICRDB) Program of the NCI in cooperation with the NLM.

EXPRESS is a companion file to CANCERLIT, which is a comprehensive archival file of 350,000 bibliographic records to cancer-related documents published since 1963 in several thousand biomedical journals and other publications. In contrast, EXPRESS is a more selective, current file containing some 10,000 records from cancer-related articles in several hundred high quality journals published during the most recent four-month period. Records entered into EXPRESS are simultaneously entered into the CANCERLIT file so they will be included in more comprehensive searches. Records are dropped from EXPRESS after four months but are retained in CANCERLIT.
Records are entered into EXPRESS in the shortest possible time, with a target date of within one month after journal receipt at NLM. All records selected for EXPRESS have author abstracts and most have an author address, or at least an organizational affiliation. The citations will originate from a group of 180 core journals identified by the NCI as being of high quality and having a high yield of relevant articles. The list of core journals is available from the ICRDB Program (Westwood Bldg., Room 10A-18, Bethesda MD, 20205). Citations will also be generated from a second group of journals yielding fewer cancer-related articles but of equally high quality. The total number of EXPRESS journals is approximately 400. These journals will be tagged in SERLINE with 'CXP' in the Abstracting and Indexing (AI) field and 'X' in the Journal Subset (SB) field.

EXPRESS is expected to be of value to cancer researchers and clinicians who wish to retrieve records from journals that have been selected on the basis of quality of published articles. For physicians and scientists who prefer not to sift through records from more obscure sources (which in many cases are unlikely to be available in their local medical libraries), EXPRESS may provide the best source of cancer-related records. In addition, the increasing number of end users with access to personal computers may wish to perform their own searches against this file. Other users with limited funds who might not print abstracts from a large retrieval on a more comprehensive database may tend to print abstracts from EXPRESS retrieval, because of the highly selective nature of this database.

Because of the emphasis on quality and speed of record preparation, EXPRESS records are particularly useful for providing SDI searches to users. Although Automatic SDI service will not be directly available on the EXPRESS database, users may limit their CANCERLIT automatic SDIs to EXPRESS journals by combining a stored search strategy with X(SB). [X stands for EXPRESS journals in the new Journal Subset field of CANCERLIT. See article on page 7 of this issue for a description of the recently enriched CANCERLIT unit record.] For existing SDI searches, this requires, of course, that the user purge the current stored search and re-store the search with the X(SB) qualifier as just described.

It is anticipated that EXPRESS will also be mounted and searched in cancer centers, and test tapes have been requested for this purpose. Availability of EXPRESS through commercial vendors is also contemplated.

To search the file online, type FILE CANCEREXPRESS or the shorter version, FILE EXPRESS. The unit record of EXPRESS is identical to that of CANCERLIT. Users should also refer to the revised online EXPLAIN CANCERLIT (or EXPLAIN CANCEREXPRESS or EXPLAIN EXPRESS) which will be available in June. A CANCERLIT replacement chapter for the Online Services Reference Manual is being prepared and will contain a complete description of the unit record and searching instructions for both databases. Watch the online NEWS for an announcement of the exact date of availability of the database.
BACKGROUND

CANCERLIT consists of approximately 350,000 bibliographic records from cancer-related documents published from 1963 to the present time in journals or monographic series, reports, dissertations, and other monographs. It also includes more than 75,000 abstracts of papers presented at meetings. CANCERLIT is prepared by the International Cancer Research Data Bank (ICRDB) Program of the National Cancer Institute (NCI) in cooperation with the National Library of Medicine (NLM) as one of a series of technical information services for cancer researchers.

The subject areas covered include: all aspects of experimental and clinical cancer therapy; chemical, viral and other agents that cause cancer; mechanisms of carcinogenesis; and the biochemistry, immunology, physiology and other biology of cancer, both in vivo and in vitro. Studies of mutagens, mutagen testing, and growth factors or other agents that stimulate cell division are also included.

CHANGE IN FILE DERIVATION FOR CANCERLIT

Beginning with the June 1983 CANCERLIT update, records from journals will be derived in part from SDILINE (the monthly MEDLINE file) via a search profile, and the database will be updated as soon as possible after SDILINE is updated. Therefore, the June CANCERLIT update originally scheduled for June 20 will occur on or about June 7. This June CANCERLIT update will carry the 8306 (EM) update tag; the corresponding SDILINE update, from which some of these records are derived, will have the 8307 (EM) tag for the July INDEX MEDICUS.

In addition to these SDILINE-derived citations, CANCERLIT will continue to include articles from other document sources, including meeting abstracts, books, chapters of books, reports, dissertations, and other monographs. Abstracts and full addresses for reprint requests will be included for all of these additional records.

The SDILINE-derived records will be added concurrently to the new CANCEREXPRESS (also called EXPRESS) database, a companion file to CANCERLIT containing only the most recent four months' citations. (See the article on page 5 of this issue for a detailed description of EXPRESS.)

SPECIFIC DATA ELEMENT TREATMENT

Data elements for CANCERLIT will be modified slightly as a result of this change in file derivation. The new EXPRESS database also includes these new and changed data elements. A summary of some of the significant data elements follows, pointing out both additions and changes.
New Data Elements: (Prospective only, beginning June 1983)

Abstract Author (AA)
The word 'AUTHOR' appears in this field if an abstract exists; directly searchable; included in PRT DL.

Journal Title Code (JC)
The three-character code for journal titles; directly searchable; included in PRT DL.

Journal Subset Identifier (SB)
'X' for EXPRESS records; 'L' for all SDILINE-derived records (EXPRESS records will carry both X and L in the SB field); directly searchable; tailored PRT only.

Identification Number (ID)
The grant or contract number that designates financial support by the Public Health Service (including any Institute at NIH); directly searchable; included in PRT DL.

Modified Data Elements: (SDILINE-derived citations only)

Address (AD)
SDILINE-derived addresses are often incomplete for mailing purposes, but will contain at least the organizational affiliation.

CODEN (CD)
As of June 1983, this 5-character journal code will no longer be entered.

Keywords (KW)
These enrichment terms will no longer be added effective June 1983.

Secondary Source ID (SI)
A new SI value has been introduced for the SDILINE/MEDLINE-derived citations.

The format is:

SI - MEDL/YY/NNNNN

where MEDL stands for MEDLINE as the source, YY is the year of entry into CANCERLIT, and NNNNN is an accession number.

This field is directly searchable and can be used to retrieve a particular citation. Truncation is not advised because a generated term overflow message will often result. Use the SB field to isolate MEDLINE-derived citations.
Abstract (AB)

Frequently used words/phrases such as milligram(s), intravenous, hour(s), deoxyribonucleic acid, etc., are no longer routinely abbreviated. Searchers are reminded to OR appropriately for these terms; Appendix B of the CANCERLIT chapter provides a list of previously used abbreviations.

Example: INTRAVENOUS OR IV

All other data elements and search capabilities will remain the same. The revised online EXPLAIN CANCERLIT, which will be available in early June, will contain the full unit record description.

ELIMINATING DUPLICATE MEDLINE CITATIONS

The NCI has tried to eliminate any MEDLINE citations retrieved by the search profile that were already present in CANCERLIT from the previous indexing workflow. With the new NCI/NLM cooperative indexing effort, duplicate citations within CANCERLIT itself should not be a problem. However, MEDLINE and CANCERLIT will now have a defined overlap, and a searching mechanism to eliminate the MEDLINE-derived citations [from 8306 (EM) forward] from CANCERLIT retrieval does exist. For example:

SS 1 /C? BREAST NEOPLASMS (MH)
SS 2 /C? 1 AND MASTECTOMY (MH)
SS 3 /C? 2 AND NOT L (SB)

The Journal Subset tag, L (SB), is on all MEDLINE-derived records from June 1983 forward. Using the AND NOT operator with this tag limits retrieval to only non-MEDLINE-derived CANCERLIT citations. You would use this strategy if you had first performed a cancer-related search in MEDLINE and then switched to CANCERLIT. Note that the L (SB) tag is not retrospective, and therefore will not eliminate duplicates prior to June 1983.

UPDATE SCHEDULE

Monthly updates for the entire year of 1983 were previously announced in the October 1982 issue of the NLM Technical Bulletin. The schedule for the remainder of the year will change as outlined below due to the new file building procedures. Automatic SDI searches for CANCERLIT will be processed within the week following each update.

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*****
MONTHLY HINT: NHPIC CITATIONS IN HEALTH
Jane L. Rosov, MEDLARS Management Section, NLM

The addition of National Health Planning Information Center (NHPIC) data* to the HEALTH PLANNING & ADMINISTRATION database has prompted the following search questions from our users:

Q. Has the special H(LI) indicator been changed in the HEALTH file?
   When I used it to eliminate MEDLINE citations in my HEALTH search, the NHPIC citations were also eliminated, even though these citations are not in MEDLINE. How can I eliminate overlap between MEDLINE and HEALTH and still retain NHPIC?

A. To eliminate overlap between the MEDLINE and HEALTH files, enter the same search terms in each file (consider using the SAVE/SAVESEARCH capabilities in MEDLINE and then running the SAVED search in HEALTH) and then combine your HEALTH file retrieval with the H Special List Indicator and with the NP value in the Secondary Source ID (SI) field, e.g.,

   SS 2/C7
   USER:
   1 AND H (LI) OR 1 AND NP (SI)

   The result is the set of HEALTH citations, including the newly added non-journal NHPIC records, that have not appeared in the same search performed in MEDLINE.

Q: When I used the Date of Entry (DA) field to limit my HEALTH search to 1980, all NHPIC citations were dropped from the retrieval. Why did this happen and how can I retain the NHPIC data in a "date-limited" search?

A. At the present time, there is no Date of Entry (DA) field present on the newly added NHPIC records. Due to the absence of this field on these non-journal HEALTH citations, it is not possible to retrieve NHPIC citations when searching with DA in HEALTH. For example:

   8801: (DA)
   or
   HEALTH FACILITIES (PX) AND FROM 080101 TO 010101 (DA)

   will not retrieve any monographs, monograph chapters, technical reports, or theses that have been added to HEALTH by inclusion of NHPIC data. Limiting by YEAR (YR) will allow searchers to retrieve by publication year.

*Please see the article "NHPIC Data Added to the HEALTH File" in the March 1983 NLM Technical Bulletin for details on the addition of this retrospective (1975-1981) body of non-journal material.

-10-
Example:

```
SS 1 /C7
USER:
HEALTH FACILITIES (PX)
PROG:
SS (1) PSTG (64034)

SS 2 /C7
USER:
1 AND 80 (YR) OR 1 AND 81 (YR)
```

[Note: YR is not rangeable in HEALTH.]

Additional special features of searching the HEALTH file are discussed in Section 23.5 of the newly revised HEALTH chapter of the Online Services Reference Manual, which will be mailed shortly.

*****

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - April 1983
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

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<td>CBAC</td>
<td>196,015</td>
<td>1965-1973</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOXBIB</td>
<td>112,170</td>
<td>1968-1973</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IPA</td>
<td>21,973</td>
<td>1969-1973</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEEP</td>
<td>29,662</td>
<td>1970-1973</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAPAB/PESTAB</td>
<td>12,966</td>
<td>1968-1973</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAYES</td>
<td>10,039</td>
<td>1940-1968</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMIC</td>
<td>4,552</td>
<td>1940-1973</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* = AVAILABLE ONLY THRU OFFSEARCH

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National Library of Medicine
Bldg. 38A, Rm. 4N421
Bethesda, Maryland 20209
TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note will include a reference to the section of the 1982 Online Services Reference Manual that is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

PDQ AND CLINPROT DATA ELEMENT CHANGES (Manual 18.3.3, 18.3.9, 18.3.12, 25.3, 25.3.7, 25.3.11)

The following changes were made to the CLINPROT database effective with the May 1983 update:

1) The data elements Major Revision Date (MR) and Performing Organization (PO) were deleted and are no longer available for searching.

2) The pre-coded Sort PERF, which was predicated on the PO (Performing Organization) field, was deleted, and is no longer an acceptable Sort in CLINPROT.

3) The CY (Country) field no longer contains the names of states; only country names will be found in this field. The United States is searched using the initials, USA, with no punctuation, e.g., USA (CY).

The following changes will be made to CLINPROT and PDQ effective with the June 1983 updates:

1) The Simplified Title Field (STI) will be added to both files for the benefit of laypersons. In this field, organ site and other medical terms have been simplified, drug names have been removed and therapeutic modalities have been generalized. This a printable field but not searchable. The present detailed title field (TI) will remain.

2) The field Cancer Stage (STG) will be added to the databases to enable one to search for protocols by the stage of the cancer the protocol is designed to treat (e.g., Stage III).

The following changes will be made to PDQ effective with the June 1983 update:

1) The field Protocol Phase (PH) will be added to make it possible to select protocols by Phase (e.g., Phase III).

2) The Tumor Type/Site (TU) field will be renamed Cancer Type/Site (CTS).

3) The Study Group (SG) field will be renamed Protocol Source (PSO).

4) The names of institutions found in the locator fields will be directly searchable and printable using a new data element, Participating Institutions (PIN).
5) The word Coordinator in all data element names, e.g., Maryland Coordinator, will be changed to Contacts, e.g., Maryland Contacts.

6) The Initial Year (Y1) data element is now directly searchable and rangeable. The Y1 contains the activation date of the protocol.

**CLINPROT INDEX - TERM LISTING**

The June 1983 listing of CLINPROT Index Terms is now available. It contains major additions to the disease parameter terms, including staging information. Copies of the CLINPROT Index Terms are available free-of-charge upon request from ICRDB, Westwood Building, Room 10A-18, Bethesda, Maryland 20205 or from the MEDLARS Management Section.

**CANCEREXPRESS IMPLEMENTATION**

Implementation of the CANCEREXPRESS database was delayed until June 20. Please note that all EXPRESS records do not contain abstracts as announced in the May 1983 NLM Technical Bulletin. This file is available to domestic users only for a period of six months. Connect time will be free through September 30; offprints will be billed at $.18/page during this time.

**IDENTIFICATION OF NLM PORTION OF ONLINE COSTS**

Searchers are reminded that the NLM portion of online costs should be clearly identified to users for searches performed on the MEDLARS system. Identification of the NLM portion of online costs is stipulated in the Memorandum of Understanding each institution/individual signed to obtain access to MEDLARS.

The following statement contains suggested wording for identifying the NLM portion of the charge:

"Of the total fee charged for this search, $______ is the portion charged by the National Library of Medicine."

(This portion may be expressed as a dollar figure or a percentage.)

For the CHEMLINE and TOXLINE files a supplementary statement should be added:

"In addition to the NLM charge, a royalty fee of $______ is assessed by the creators of file content."

**ENCLOSURE**

Enclosed with this issue is the Keyword Index to NLM Literature Searches (78-1 -- 82-30). Copies of the searches contained on this list may be obtained by writing: Literature Search Program, Reference Section, National Library of Medicine, Bethesda, Maryland 20209.

The name and address of the requestor, typed on a gummed label, must accompany all requests (no return postage necessary). Order by Literature Search or Specialized Bibliography Series number in addition to title. Requests for these searches should not be sent to MEDLARS Management Section.
THE PDQ/DIRECTORY FILE
James W. Carter, Assistant Database Manager, ICRDB, NCI

PDQ/DIRECTORY, the first of the National Cancer Institute's (NCI) PDQ2 files will be added to the MEDLARS system in July. Subsequent PDQ2 files will contain information related to cancer treatment and will be designed in a user-friendly format. A file devoted to state-of-the-art cancer treatment as well as a glossary file will be added to the original PDQ and CLINPROT files for a total of five PDQ2 files.

The DIRECTORY file will contain the names of health care professionals and health care institutions that specialize in cancer care. In addition to their names, addresses and telephone numbers, health professionals will have their medical specialty identified and their professional affiliations listed. Health care institutions will be identified as comprehensive cancer centers, community cancer centers, etc., when that information is provided. Listed below are the medical specialty groups and associations that have provided information for this file.

Names of health professionals have been provided by the:

- American Society of Clinical Oncology
- American Society of Hematology
- American Society of Pediatric Hematology and Oncology
- American Society of Therapeutic Radiology and Oncology
- Society of Surgical Oncology
- Society of Gynecologic Oncology
- NCI's Cancer Therapy Evaluation Program
- PDQ (Institution Contacts, Protocol Chairmen)

Names of Institutions and Organizations were obtained from:

- American Association of Cancer Institutes
- American College of Surgeons (approved hospitals)
- Association of Community Cancer Centers
- NCI's Clinical Cooperative Groups and their satellites

The initial file will consist of about 10,000 records. The two types of records, health care professionals and health care institutions, will be distinguishable by the data element, Record Type (RY). PERSON will appear in the Record Type field when the record provides information about a health professional; ORGANIZATION will appear when the record contains information about an organization, institution or association. This database is effectively an expansion of the capabilities provided by the Locator fields in PDQ.

Two of the PDQ/DIRECTORY fields, Professional Affiliation (PAF) and Organization Type (ORT), will be incomplete when the file is initially implemented because this type of data has proven to be difficult to collect and/or verify.

The PDQ/DIRECTORY unit record consists of twenty-three data elements. Twenty of these data elements are directly searchable. A chart of these fields can be found at the end of this article; this material is duplicated in the online EXPLAIN UNIT RECORD.
When searching for the name of a professional, use the Abbreviated Name (ANA) field. This field follows the standard format for names in ELHILL databases, e.g., SARNA G. An institution's name would be searched using the Organization Name (ONA) field, e.g., CHILDREN'S HOSPITAL OF BUFFALO. Before searching for either, you should check the entry format by neighboring the index. Organization names can be Text Word searched using terms that are not likely to be abbreviated. (Words such as 'medical' or 'center' may appear in full or abbreviated.)

Contact information for Dr. Gerald Zwiren would be retrieved as follows:

SS 1 /C?
USER:
ZWIREN G (ANA)
PROG:
SS (1) PSTG (1)

SS 2 /C?
USER:
PRT DL INDENTED

UNIQUE IDENTIFIER 06061
RECORD TYPE PERSON
ABBREVIATED NAME ZWIREN G
FULL NAME GERALD ZWIREN, M.D.
OCCUPATION/TITLE PHYSICIAN
MEDICAL SPECIALTIES SURGERY
TELEPHONE NUMBER 404-588-3815
PROFESSIONAL AFFILIATION CANCER THERAPY EVALUATION PROGRAM (CTEP)
PROFESSIONAL AFFILIATION PEDIATRIC ONCOLOGY GROUP (POG)
ADDRESS EMORY UNIVERSITY SCHOOL OF MEDICINE; PEDIATRIC ONCOLOGY; 69 BUTLER STREET, S.E.; ATLANTA, GA 30303

PARENT ORGANIZATION EMORY UNIVERSITY SCHOOL OF MEDICINE
ORGANIZATION NAME EMORY UNIV., SCH. OF MED.
CITY ATLANTA
STATES GEORGIA (GA)
COUNTRY USA
ENTRY MONTH 8307

Information about an organization (the Virginia Mason Hospital) would be retrieved as follows:

SS 2 /C?
USER:
VIRGINIA MASON HOSPITAL (ONA)
PROG:
SS (2) PSTG (1)

SS 3 /C?
USER:
PRT DL INDENTED

UNIQUE IDENTIFIER 01227
RECORD TYPE ORGANIZATION
ABBREVIATED NAME  EINSTEIN AB
FULL NAME  ALBERT B. EINSTEIN, JR., M.D.  }
OCCUPATION/TITLE  PHYSICIAN
TELEPHONE NUMBER  206-223-6945
ADDRESS  VIRGINIA MASON MEDICAL CENTER; VIRGINIA
MASON CANCER DIVISION; 1100 NINTH AVENUE;
SEATTLE, WA  98111

ORGANIZATION TYPE  COMMUNITY CANCER CENTER
ORGANIZATION NAME  VIRGINIA MASON HOSPITAL
CITY  SEATTLE
STATE  WASHINGTON (WA)
COUNTRY  USA
ENTRY MONTH  8307

It is expected that this file will often be used to find the names of physicians
and organizations that are not previously known to the searcher, e.g., to find
a list of physicians of a particular medical specialty in your city and/or
state.

SS 1 /C?
USER:  PEDIATRIC ONCOLOGY (MSP)
PROG:  SS (1) PSTG (299)

SS 2 /C?
USER:  1 AND NEW YORK (STS) AND BUFFALO (CITY)
PROG:  SS (2) PSTG (8)

In cases where the retrieval is high, the search can be narrowed to a particular
Zip Code (ZIP) or group of zip codes.

If a relevant cancer therapy protocol has been located in PDQ and an area
contact in a particular state is wanted, print the Protocol Source (PSO)*
field in PDQ. If the protocol was provided by one of the clinical cooperative
groups that are part of the NCI's Cancer Therapy Evaluation Program, it
may be possible to find someone who could administer that treatment in an
area by retrieving the names of physicians affiliated with that study group
in a specific city. In order to do this, enter the name retrieved in the
PDQ Protocol Source (PSO) field in the DIRECTORY file as follows:

SS 1 /C?
USER:  RADIATION THERAPY ONCOLOGY GROUP (PAF)
PROG:  SS (1) PSTG (145)

SS 2 /C?
USER:  1 AND SEATTLE (CITY)
PROG:  SS (2) PSTG (6)

*Formerly the Study Group (SG) field; see Technical Notes in this issue for list
of changes to PDQ.
This file is expected to grow to a level of about 15,000 entries. Foreign investigators and institutions will be added within the next year while we complete the entry and verification of the U.S. data. The PDQ/DIRECTORY is expected to be updated monthly. The file will be available initially to domestic users only. No offline prints are available at this time. A new chapter for the Online Services Reference Manual is in preparation and will be mailed upon completion.

Below is a listing of each data element in the unit record, along with its mnemonic, search status and print status. There is also an explanation of the correct entry format for each of the searchable data elements on the following page.

**PDQ/DIRECTORY UNIT RECORD**

<table>
<thead>
<tr>
<th>Category Qualifier</th>
<th>Element Name</th>
<th>Search Status</th>
<th>PRINT FULL</th>
<th>PRINT Detailed</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD</td>
<td>Address</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>ANA</td>
<td>Abbreviated Name</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>CITY</td>
<td>City</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>COR</td>
<td>Component Organizations</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>CY</td>
<td>Country</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>EM</td>
<td>Entry Month</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>FNA</td>
<td>Full Name</td>
<td></td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>ISO</td>
<td>Information Source</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>LR</td>
<td>Last Revision Date</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>MSP</td>
<td>Medical Specialties</td>
<td>*</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>OCT</td>
<td>Occupation/Title</td>
<td>*</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>ONA</td>
<td>Organization Name</td>
<td>* TW</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>ORT</td>
<td>Organization Type</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>PAF</td>
<td>Professional Affiliation</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>POR</td>
<td>Parent Organization</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>PROT</td>
<td>Protocols</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>RY</td>
<td>Record Type</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>SAF</td>
<td>Source Affiliation</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>SOR</td>
<td>Sub Organizations</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>STS</td>
<td>States</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>TEL</td>
<td>Telephone Number</td>
<td></td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>UI</td>
<td>Unique Identifier</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>ZP</td>
<td>Zip Code</td>
<td>*</td>
<td>N</td>
<td>N</td>
</tr>
</tbody>
</table>

* = Directly searchable  
TW = Text Word searchable  
N = Not printed in this format  
Y = Printed in this format
<table>
<thead>
<tr>
<th>ELEMENT NAME (QUALIFIER)</th>
<th>FORMAT/EXAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbreviated Name</td>
<td>(ANA) Last name followed by a space and one or two initials, e.g., SARNA G</td>
</tr>
<tr>
<td>City</td>
<td>(CITY) Full name of city, e.g., Buffalo</td>
</tr>
<tr>
<td>Component Organizations</td>
<td>(COR) University of Buffalo*</td>
</tr>
<tr>
<td>Country</td>
<td>(CY) USA</td>
</tr>
<tr>
<td>Entry Month</td>
<td>(EM) Year and month in format &quot;YYMM&quot;, e.g., 8307</td>
</tr>
<tr>
<td>Information Source</td>
<td>(ISO) CTEP (ISO)* NOTE: This data element must be qualified.</td>
</tr>
<tr>
<td>Last Revision Date</td>
<td>(LR) Year and month in format &quot;YYMM&quot;, e.g., 8312</td>
</tr>
<tr>
<td>Medical Specialties</td>
<td>(MSP) Pediatric Oncology*</td>
</tr>
<tr>
<td>Occupation/Title</td>
<td>(OCT) Physician*</td>
</tr>
<tr>
<td>Organization Name</td>
<td>(ONA) Children's Hospital of Buffalo* (or Text Word search on words that are not likely to be abbreviated, i.e., CHILDREN AND BUFFALO)</td>
</tr>
<tr>
<td>Organization Type</td>
<td>(ORT) Comprehensive Cancer Center*</td>
</tr>
<tr>
<td>Parent Organization</td>
<td>(POR) Roswell Park Memorial Institute*</td>
</tr>
<tr>
<td>Professional Affiliation</td>
<td>(PAF) CTEP*</td>
</tr>
<tr>
<td>Protocols</td>
<td>(PROT) CLINPROT Unique Identifier, e.g., ZZ-001234</td>
</tr>
<tr>
<td>Record Type</td>
<td>(RY) Valid values are: Person or Organization</td>
</tr>
<tr>
<td>Source Affiliation</td>
<td>(SAF) Principal Investigator (SAF)* NOTE: This data element must be qualified.</td>
</tr>
<tr>
<td>Sub Organizations</td>
<td>(SOR) Buffalo Hospital*</td>
</tr>
<tr>
<td>States</td>
<td>(STS) Full name or postal code of state, e.g., Maryland or MD</td>
</tr>
<tr>
<td>Unique Identifier</td>
<td>(UI) A five-character numeric, e.g., 00005</td>
</tr>
<tr>
<td>Zip Code</td>
<td>(ZP) A five-character numeric, e.g., 14222</td>
</tr>
</tbody>
</table>

*NEIGHBORing is suggested for exact word order, abbreviations, and punctuation.
ADDITIONAL NAMES ADDED TO CHEMLINE

George F. Hazard, Jr., Ph.D., Specialized Information Services, NLM

SYNONYM AUGMENTATION

In January 1983 CHEMLINE was regenerated with an experimental new source of non-systematic names, the CA Index Guide. While this allowed NLM to lower connect hour charges for CHEMLINE significantly, it also resulted in the loss of many useful synonyms for searching. In the December 1982 Technical Bulletin article announcing this change, we stated our intention to obtain non-systematic names from a variety of sources that would allow the retention of the lower charges for CHEMLINE without a loss of significant data content. We are now pleased to announce that the first increment of these names is scheduled to be added during July 1983, and users should notice an immediate improvement in their ability to retrieve records based on non-systematic names. The exact implementation date will be announced in the online news.

One of the problems facing users in searching NLM databases for chemical questions is the fact that multiple files (CHEMLINE, RTECS, TDB, and MESH) contain chemical authority data. Depending on the nature of the question, it may be desirable to search one or more of these databases to identify information useful for further retrieval of data or citations. The first names added to CHEMLINE, therefore, will be taken from these files to provide a central source of chemical names. As a first step, names for substances in RTECS and TDB that have a CAS Registry Number, and that are consistent with certain validation criteria, have been merged with the current CHEMLINE content for these substances. Names with Registry Numbers from chemical records in the MESH file will be added soon. For all records augmented in this way, names in the Synonym (SY) field will be appended with a name locator in square brackets to show the source of the name, e.g.,

SY - SYNONYM [FILE NAME].

The record for the chemical commonly known as 'Aniline,' which was used for illustration in the December Technical Bulletin article, is shown below with the Index Guide data augmented by names from RTECS and TDB.

RN - 62-53-3
NL - Benzenamine (9CI)
SY - AMINOBENZENE [RTECS:TDB]
SY - AMINOPHEN [RTECS:TDB]
SY - ANILIN (Czech) [RTECS]
SY - ANILINA (Italian, Polish) [RTECS]
SY - Aniline (8CI) [CAS:RTECS:TDB]
SY - ANILINE OIL [RTECS]
SY - ANILINE OIL, LIQUID (DOT) [RTECS]
SY - ANYVIM [RTECS:TDB]
SY - BENZENAMINE [RTECS:TDB]
SY - BENZENE, AMINO [RTECS]
SY - Benzene, amino- [CAS]
SY - BENZIDAM [RTECS]
SY - BLUE OIL [RTECS:TDB]
SY - C.I. OXIDATION BASE 1 [RTECS]
SY - C.I. 76000 [RTECS]
SY - CI 76000 [TDB]
As can be seen, each name in the Synonym (SY) field is followed by one or more file names in square brackets, separated by colons if necessary. Names identified as 'CAS' are from the current Index Guide content. The use of upper and lower case has been kept where possible, and names are sorted in alphabetical order. The content of the annotation in square brackets is stripped off when the substance name is put into the SY or Nl fields, but is retained as name fragments when the NF field is created. Thus searching on:

(SY) BLUE OIL

will retrieve the 'Aniline' record, even though the name prints as:

SY - BLUE OIL [RTECS:TDB]

Comparing this particular record to the pre-1983 CHEMLINE record, every synonym lost through the change in content is now present. There are actually more synonyms than before, although this will not always be the case. In most cases, the added names will be those useful in retrieving CHEMLINE records, allowing the user to pick one or more Registry Numbers and short names to create a search concept for TOXLINE.

As names from other sources are added to CHEMLINE during the coming year, the most important name from a given source will be flagged with an asterisk. For instance, chemical names from the MESH file will indicate whether the name is a Main Heading or not. Thus the following names that print as:

SY - Naprosyn [CAS:MESH:RTECS:TDB]
SY - Naproxen [CAS:MESH*:RTECS:TDB]

indicate that 'Naproxen' is the Main Heading used for this substance, while Naprosyn is an Entry Term. We hope that identifying the sources of a name in this way will be useful in helping users select names for further searching in other databases.

SEARCH DEFAULT CHANGE

To further enhance the usefulness of this augmentation to CHEMLINE, the search defaults have been changed so that an input term will now be searched in any field except the NF field. Previously there was no search default. This change will allow unqualified name searching in most cases, since single word input names will no longer give multi-meanings with name fragments.
The user must remember, however, to qualify all name fragment searches. The command 'ELEMENTS ALL' will return to no default if desired (see Online Services Reference Manual, Section 4.9.5 for a discussion of the ELEMENTS command).

SUMMARY OF CHANGES

Some points to remember about the changes:

1. Over 40,000 substance records have been augmented with over 100,000 additional names.

2. Synonyms in augmented records will be followed by a file name locator. Synonyms in all other CHEMLINE records can be assumed to be from CAS and will have no locator.

3. To search for individual substances, the user may input an unqualified name. In most cases this will result in a single posting. As is the case now, multiple hits should be resolved by printing each record, and multi-meaning messages should be answered by 'ALL' where the name appears as both N1 and SY.

4. Name fragment searches must be qualified with (NF).

The addition of these names represents the first step in a long-term effort to enhance the capabilities of CHEMLINE as a central resource, both to identify chemical substances, and to route users to the NLM file(s) most likely to have data relevant to a given substance. During the coming year we plan to add other capabilities that we hope will aid users in the NLM search community to retrieve chemical information more easily and at a reasonable cost. We welcome your comments and suggestions for such enhancements at the following address:

CHEMLINE COORDINATOR
Biomedical Information Services Branch, SIS
Bldg. 38A, Rm. 3N319
National Library of Medicine
Bethesda, MD 20209

*****
NLM is pleased to announce that an updated version of the *MEDLEARN* computer-aided instruction (CAI) program was made available on June 10, 1983. While the content on basic MEDLINE and MeSH mechanics remains essentially the same, all program examples have been updated to reflect the 1983 MeSH Vocabulary and the current ELHILL software.

*MEDLEARN* first became available to the NLM online network in October 1976. Since that time, this CAI program has been used by thousands of individuals prior to their attendance at NLM's beginning training course. Completion of *MEDLEARN* prior to in-class instruction insures that all trainees have had at least a minimal exposure to the basic mechanics of online searching on the MEDLARS system and to the MEDLINE database. In addition, these trainees acquire experience logging in to NLM via the telecommunication networks of TELENET and TYMNET. *MEDLEARN* is also used extensively within organizations as a component of in-house backup searcher training programs.

*MEDLEARN* instruction includes:

<table>
<thead>
<tr>
<th>CHAPTER</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td><em>MEDLEARN</em> Manual</td>
</tr>
<tr>
<td>1</td>
<td>Learning to Use a Computer Terminal</td>
</tr>
<tr>
<td>2</td>
<td>General Statement on MEDLINE</td>
</tr>
<tr>
<td>3</td>
<td>First Simulated MEDLINE Search</td>
</tr>
<tr>
<td>4</td>
<td>MeSH (Medical Subject Headings)</td>
</tr>
<tr>
<td>5</td>
<td>Search Statement Connectors</td>
</tr>
<tr>
<td>6</td>
<td>MEDLINE Commands and Program Messages</td>
</tr>
<tr>
<td>7</td>
<td>MEDLINE Print Commands</td>
</tr>
<tr>
<td>8</td>
<td>Second Simulated Search</td>
</tr>
<tr>
<td>9</td>
<td>Cumulative Quiz</td>
</tr>
</tbody>
</table>

Two MEDLINE simulated searches are included to provide the user of *MEDLEARN* with the opportunity to formulate and execute a search, have the strategy evaluated, and then perform the search in MEDLINE if so desired.

*MEDLEARN* will take the novice user a minimum of 3-4 hours to complete. *MEDLEARN* may be completed in one online session or in several segments, according to personal preference. All instructions on how to use *MEDLEARN* are contained in the *MEDLEARN* program. The only additional material required to complete *MEDLEARN* is a copy of the Medical Subject Headings (MeSH). It is recommended that *MEDLEARN* be used with a hardcopy terminal (i.e., a terminal with a printer attached).

*MEDLEARN* will continue to be available during the following time periods (all Eastern Time):

- **Monday-Friday**
  - Before 10:00 AM
  - From 11:00 AM to 2:00 PM
  - After 5:00 PM

- **Saturday**
  - 8:30 AM to 10:00 AM
  - 11:00 AM to 2:00 PM
The charges for *MEDLEARN* are the same as for MEDLINE, that is:

- $22.00/hour Prime Time
- $15.00/hour Non-prime Time

Logon instructions for *MEDLEARN* can be found in Part 20 of the Online Services Reference Manual.

Please feel free to submit comments online or to write MEDLARS Management Section with your reactions to this updated version of *MEDLEARN*.

*****

Reprinted from the NLM NEWS, June 1983:

2,000TH DOMESTIC MEDLARS CENTER

A milestone was reached last month when the Utah Valley Hospital in Provo, Utah, became the 2,000th U.S. institution to join NLM's MEDLARS network. According to Gregory Patterson, head of the hospital's new medical library, MEDLINE and the other databases will be used primarily to provide information to physicians engaged in patient care.
The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

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Enclosures: Replacement pages for the ONLINE SERVICES REFERENCE MANUAL
POPLINE THESAURUS GEOGRAPHICAL SUPPLEMENT

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* = AVAILABLE ONLY THRU OFFSEARCH

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301/496-6193
Whenever applicable, the headings of each Technical Note will include a reference to the section of the 1982 Online Services Reference Manual that is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual.

**LABOR DAY HOLIDAY SCHEDULE**

- The NLM computer will be down on Monday, September 5, 1983, in observance of the Labor Day holiday.

**COMMENT COMMAND CHANGE**

(Manual 4.9.2)

- Beginning August 1983, searchers using the COMMENT command to send a message to the MEDLARS Management Section will be prompted for Name, Telephone Number, and Address if a reply to the comment is requested. The interaction will be:

```
SS 1 /C?
USER: COMMENT

PROG: REPLY? (YES/NO)
USER: YES

PROG: NAME & TELEPHONE NUMBER:
USER: JOHN SMITH 301/777-1234

PROG: ADDRESS?
USER: 24956 ELM STREET

PROG: CITY, STATE (PLEASE DO NOT ABBREVIATE), AND ZIP-
USER: BETHESDA, MARYLAND 20209

PROG: CONT. OR FINISHED-
```

[user enters comment here]

The addition of the request for the Telephone Number is new with this version of the COMMENT command. MMS requests that users include a phone number with the COMMENT so that a prompt reply may be given.
Beginning with the July 1983 update (8307 (EM)) to the PDQ database, the following data element changes will occur:

1. The States/Country (STS) field will no longer carry the names of countries; only state names will be found in this field. The field will now be known as the States (STS) field.

2. The Country (CY) field will be added to the database and will contain the names of countries previously carried in the States/Country field.

This change is being made to PDQ to make the data element fields of this database conform with the data element fields of the new PDQ/DIRECTORY file.

Beginning in July 1983, the following database name aliases will be implemented for the CLINPROT and DIRECTORY files:

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These aliases may be used when issuing a FILE or EXPLAIN command in lieu of the established name for the database. Please see the June 1983 Technical Bulletin (p. 5) for complete information on the new DIRECTORY file.

Searchers are requested to notify the MEDLARS Management Section if a large output of OFFLINE print and/or OFFSEARCH print pages is expected to be generated from any individual User ID code; a large output is considered in excess of 1,000 pages. This will ensure that all searches can be processed during the allotted time schedule.

At the request of the National Cancer Institute, non-billed online access for the PDQ database will be extended through September 30, 1983. OFFSEARCHes will continue to be charged at $1.00; OFFPRINT pages are $.18 each.

A packet of replacement pages for the Online Services Reference Manual is enclosed with this issue. Instructions for filing are provided in the packet.
NEW PRICING ALGORITHM

Lois Ann Colaianni, Acting Associate Director, Library Operations
David Kenton, Staff Assistant, Office of Computer and Communications Systems

As announced earlier this year NLM plans to change the method of computing charges for online database searching in the fall. Online searching will be billed on the basis of an algorithm that will include connect hour use (reduced from the current charges), work performed by the NLM computer, and characters sent to the user's terminal. Other charges, such as offline processing (off-prints, SDIs, and OFFSEARCHes), page royalties, and the monthly minimum, are not expected to change (except for RTECS and TDB increases announced for October 1983 implementation).

NLM has chosen to introduce this new charging formula in order to equalize system costs for our users. For example, charging by connect time has resulted in users with slower speed terminals being charged higher fees for the same amount of retrieval than users with faster terminals or microcomputers. This algorithm will distribute costs more equitably to users based on actual work performed and system resources used rather than simply by time.

During the summer, NLM is testing the new pricing algorithm prior to fall implementation. Based upon usage data analyzed to date, NLM expects that most users will experience no increase in charges. However, those searchers making extensive use of the system to retrieve and process large numbers of citations (e.g., downloading of citations) should expect to pay somewhat more. In other words, charges are not being increased or decreased per se; rather, operating costs are being redistributed among the users based on actual use of the system and databases. Online revenues to NLM generated by the new algorithm will not increase, but will continue to recover costs associated with database access.

The components* of the new pricing algorithm are:

CONNECT TIME: The algorithm will include an amount for prime and non-prime time connect hours to cover telecommunications costs. Royalty or use charges, when applicable, will be included in this component.

COMPUTER WORK: Users will be charged for the actual computer work, i.e., entering a search statement, carriage returns (interactions), citations printed, and disk accesses (accesses to a disk for retrieval of citations, commonly referred to as input/output operations).

*Components are subject to change based on further analysis during the summer.
Computer work will be a component of the total charge and should not influence a user's bill by more than 10-15 percent at any given time. Future articles in the NLM Technical Bulletin will further explain how different methods of searching will influence the proportion of the total charge resulting from this component.

**CHARACTERS PRINTED:**

A charge will be made for the number of characters prepared for transmission to the user's terminal. PRINT commands will have the greatest effect on the amount of this charge. Users printing a large number of citations or downloading will pay proportionately. Two users, one using a 300 baud terminal and the other a 1200 baud, will pay the same amount for characters transmitted to the terminal regardless of the speed of transmission.

Users will be encouraged to use the "information" commands (e.g., EXPLAIN) and to read the online NEWS, both of which involve transmission of large numbers of characters. When the new algorithm is implemented, NLM will introduce a new ELMILL database that will be billed on only the connect time portion of the algorithm. Users will be able to input COMMENTS as well as retrieve the NEWS or see a unit record EXPLAIN without concern for computer work or number of characters transmitted.

Please see the article on page 7 of this issue for a discussion of a new command, SHOW COST, which will enable users to display online the costs of a given search session.

*****
THE SHOW COST COMMAND

Lois Ann Colaianni, Acting Associate Director, Library Operations
David Kenton, Staff Assistant, Office of Computer and Communications Systems

Beginning in August 1983, NLM will implement a new command called SHOW COST. This command will enable users to see the costs of a search or terminal session online. Prior to implementation of the new charging algorithm (see article on page 5 of this issue), the SHOW COST command will display costs based on current connect hour charges only. However, information will be provided on interactions, search statements, citations and characters printed, and computer resources used in order to familiarize searchers with the cost components of the new algorithm, which will be implemented in the fall.

There are two kinds of SHOW COST commands: those related to a database and those related to an entire terminal session. The database commands will display cumulated totals and costs for searching a database; that is, from time of initial login into a particular database until the issuance of a FILE command or STOP Y. The session commands will display cumulated totals and costs for all databases from initial login until a STOP Y is input.

The commands are:

SHOW COST ) DATABASE COMMANDS
SHOW COST DETAILED )
SHOW COST TOTAL ) SESSION COMMANDS
SHOW COST TOTAL DETAILED )

Sample SHOW COST displays follow:

DATABASE COMMANDS
USER:
SHOW COST
PROG:
THE ESTIMATED TOTAL ONLINE COST FOR THIS 16 MINUTE MEDLINE SESSION IS $5.87.

USER:
SHOW COST DETAILED
PROG:
THE ESTIMATED TOTAL ONLINE COST FOR THIS 16 MINUTE MEDLINE SESSION IS $5.87.
YOU HAVE ENTERED 8 INTERACTIONS* AND 5 SEARCH STATEMENTS.
3 CITATIONS WERE PRINTED AND 1638 CHARACTERS WERE SENT TO YOUR TERMINAL.
THE COMPUTER HAS USED 690 WORK UNITS IN PERFORMING YOUR INTERACTIONS.

* Defined as CARRIAGE RETURN or other "end of message" indicator.
SESSION COMMANDS

USER:
SHOW COST TOTAL
PROG:
THE ESTIMATED TOTAL ONLINE COST FOR THIS 18 MINUTE TERMINAL SESSION IS $6.75.

USER:
SHOW COST TOTAL DETAILED
PROG:
THE ESTIMATED TOTAL ONLINE COST FOR THIS 16 MINUTE TERMINAL SESSION IS $5.91.
YOU HAVE ENTERED 10 INTERACTIONS AND 3 SEARCH STATEMENTS.
15 CITATIONS WERE PRINTED AND 1240 CHARACTERS WERE TRANSMITTED TO YOUR TERMINAL.
THE COMPUTER HAS USED 651 WORK UNITS IN PERFORMING YOUR TRANSACTIONS.

Options for this command include:

- DETAILED may be abbreviated as DL.
- Commas are optional between individual elements of the command, e.g.,
  SHOW COST, TOTAL, DL
- The word RESET may be added to the database commands to reset the database "counters" to zero. This feature is especially useful when one is performing multiple searches for different patrons in one database. In this manner, discrete totals for each user may be provided. [Note that RESET can be used with session commands but will reset counters for only the database currently in use.]

When a user issues a STOP Y command the program will automatically generate a SHOW COST TOTAL display. In addition, the message '*** END OF SESSION ***' will be received after the GOOD-BYE message and cost display.

PLEASE NOTE: All costs shown by this new command are estimated online charges. Therefore, the actual invoice may differ slightly from the online estimates. Charges associated with OFFSEARCHes or offprint pages are not included in the SHOW COST display.
DIRLINE: DIRECTORY OF INFORMATION RESOURCES ONLINE
Lillian M. Scanlon and George J. Cosmides, Ph.D., SIS, NLM

A new online database known as DIRLINE (Directory of Information Resources Online) will be made available in August to U.S. users for a one-year experimental period. DIRLINE is being implemented on the NLM system to provide our users with a unique resource for answering information needs not met by bibliographic citations. As such, it will complement other currently available NLM databases.

During the one-year experimental period NLM will be evaluating, based on user feedback, how this new online directory can better serve user needs. Your comments and suggestions are welcome, and we strongly urge you to make use of the COMMENT command (see section 4.9.2 of the Online Services Reference Manual, and page 3 of this issue ) to apprise us of any changes that you would like to see incorporated into DIRLINE, or to give us suggestions for possible directory components that you would like to be considered for future inclusion in DIRLINE.

Currently, the only component in DIRLINE is the National Referral Center (NRC) database, developed and maintained by the National Referral Center at the Library of Congress. The NRC database contains descriptions of approximately 13,000 organizations that either provide information about a given subject area or are knowledgeable enough to be able to suggest appropriate experts. Organizations such as libraries and information centers, data analysis centers, federal, state or local government offices or laboratories, research institutes, university departments and research centers, committees of national or state academies, foundations, the headquarters of societies and associations, museums, or herbaria are described in the database.

Additionally, to be eligible for inclusion in the NRC database the organization must agree to make its information available to others, at least under some conditions. Some organizations may have restrictions or charge a fee for their publications, services, etc., while others may provide free, unrestricted service. NRC makes it a point to include such information in the unit record, so the user will know what to expect when contacting the organization. A complete address and phone number is included in the record for further information, if necessary. The National Referral Center attempts systematic coverage only for resources in the United States, although the database does include approximately 1,000 non-U.S. information resources.

The NRC component of DIRLINE is maintained by professional analysts at the Library of Congress. Each information resource description is updated at a minimum of two-year intervals. The NRC database is accessible to readers at the Library of Congress through the automated system known as SCORPIO. It is also available to many Federal agencies through the RECON computer network operated by the Department of Energy. The RECON version of the NRC database was reformatted for conversion to NLM's ELHILL system at the Oak Ridge National Laboratory, Oak Ridge, Tennessee. In cooperation with the Library of Congress and the Oak Ridge National Laboratory, NLM plans to update the NRC component of DIRLINE quarterly. The ELHILL version of DIRLINE dates from December 1982; the most current version is available through the Referral Services Section, Library of Congress (202/287-5670).
It should be noted that the current version of DIRLINE will be subject to change during the one-year experimental period. Not only do we anticipate an update of the NRC database, which reflects the change in how state names are to be searched using the two-character United States Postal Service (USPS) abbreviations, but there is a possibility that other components may be added to DIRLINE during the experimental period. We will keep you informed of any changes to the database through the Technical Bulletin and the online NEWS.

Use of DIRLINE will be on a non-billed basis for the first three months. No offline print capability will be available during this free period. Watch the online NEWS for any changes in the status of DIRLINE regarding the implementation of new components, online charges, or the availability of the offline print capability. The DIRLINE chapter for the Online Services Reference Manual will be mailed in a future issue of the Bulletin.

Below is a listing of each data element in the DIRLINE unit record, along with its category qualifier, search status, and print status. There is also a sample search and a list of state name abbreviations for searching the Country/State (CY) field. Production of this database is being coordinated by Specialized Information Services (SIS), NLM. Please feel free to call their staff on (301)496-1131 or MEDLARS Management Section on (301)496-6193 or (800)638-8480 (toll free) with your questions, comments, or suggestions. Questions regarding the content of the NRC database should be directed to the National Referral Center at the Library of Congress; the telephone number is (202)287-5683.

**DIRLINE Unit Record**

<table>
<thead>
<tr>
<th>CATEGORY QUALIFIER</th>
<th>DATA ELEMENT</th>
<th>SEARCH STATUS</th>
<th>PRINT FULL</th>
<th>PRINT DETAILED</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB</td>
<td>Abstract</td>
<td>TW</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>AD</td>
<td>Address</td>
<td></td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>CY</td>
<td>Country/State</td>
<td>*</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>EM</td>
<td>Entry Month</td>
<td>* , R</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>GN</td>
<td>General Notes</td>
<td>TW</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>KW</td>
<td>Keywords</td>
<td>* , TW</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>NA</td>
<td>Name</td>
<td>* , TW</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>NT</td>
<td>Name Type</td>
<td>*</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>SI</td>
<td>Secondary Source ID</td>
<td>*</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ST</td>
<td>Status</td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>ZP</td>
<td>Zip Code</td>
<td>*</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

* = Directly Searchable  
R = Rangeable  
TW = Text Word Searchable

DIRLINE is essentially a "free-text" database. Subject descriptors or indexing terms have been assigned by professional analysts at the National Referral Center to each information resource description of the NRC database. However, no thesaurus is available at this time to use for searching the database. You will find that the NEIGHBOR command will be helpful in searching this database.
INTRODUCTION: A nonprofit organization, HRC provides information on treatment and research conducted on herpes infections as well as providing emotional support to those afflicted. It also offers opportunities to participate in research, education, political action, and fundraising projects. INTERESTS: Herpes simplex virus; venereal disease; social health; public health. PUBLICATIONS: The Helper (quarterly); research summaries. INFO SERVICES: Answers inquiries; provides advisory and reference services and information on research in progress; conducts seminars; distributes publications; makes referrals to other sources of information. Services are free and available to anyone, except for publications and seminars, which are limited to members.

<table>
<thead>
<tr>
<th>NAME TYPE</th>
<th>Non-profit Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAME Type</td>
<td>Undesignated</td>
</tr>
<tr>
<td>ENTRY MONTH</td>
<td>8205</td>
</tr>
</tbody>
</table>
GPO STYLE MANUAL PREFERRED TEXT FORMS OF STATE ABBREVIATIONS

<table>
<thead>
<tr>
<th>State</th>
<th>Preferred Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alabama</td>
<td>Ala.</td>
</tr>
<tr>
<td>Alaska (Not abbreviated)</td>
<td></td>
</tr>
<tr>
<td>Arizona</td>
<td>Ariz.</td>
</tr>
<tr>
<td>Arkansas</td>
<td>Ark.</td>
</tr>
<tr>
<td>Canal Zone</td>
<td>C.Z.*</td>
</tr>
<tr>
<td>California</td>
<td>Calif.</td>
</tr>
<tr>
<td>Colorado</td>
<td>Colo.</td>
</tr>
<tr>
<td>Connecticut</td>
<td>Conn.</td>
</tr>
<tr>
<td>Delaware</td>
<td>Del.</td>
</tr>
<tr>
<td>Distr. of Columbia</td>
<td>D.C.</td>
</tr>
<tr>
<td>Florida</td>
<td>Fla.</td>
</tr>
<tr>
<td>Georgia</td>
<td>Ga.</td>
</tr>
<tr>
<td>Hawaii (Not abbreviated)</td>
<td></td>
</tr>
<tr>
<td>Idaho (Not abbreviated)</td>
<td></td>
</tr>
<tr>
<td>Illinois</td>
<td>Ill.</td>
</tr>
<tr>
<td>Indiana</td>
<td>Ind.</td>
</tr>
<tr>
<td>Iowa (Not abbreviated)</td>
<td></td>
</tr>
<tr>
<td>Kansas</td>
<td>Kans.</td>
</tr>
<tr>
<td>Kentucky</td>
<td>Ky.</td>
</tr>
<tr>
<td>Louisiana</td>
<td>La.</td>
</tr>
<tr>
<td>Maine (Not abbreviated)</td>
<td></td>
</tr>
<tr>
<td>Maryland</td>
<td>Md.</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>Mass.</td>
</tr>
<tr>
<td>Michigan</td>
<td>Mich.</td>
</tr>
<tr>
<td>Minnesota</td>
<td>Minn.</td>
</tr>
<tr>
<td>Mississippi</td>
<td>Miss.</td>
</tr>
<tr>
<td>Missouri</td>
<td>Mo.</td>
</tr>
<tr>
<td>Montana</td>
<td>Mont.</td>
</tr>
<tr>
<td>Nebraska</td>
<td>Nebr.</td>
</tr>
<tr>
<td>Nevada</td>
<td>Nev.</td>
</tr>
<tr>
<td>New Hampshire</td>
<td>N.H.</td>
</tr>
<tr>
<td>New Jersey</td>
<td>N.J.</td>
</tr>
<tr>
<td>New Mexico</td>
<td>N. Mex.</td>
</tr>
<tr>
<td>New York</td>
<td>N.Y.</td>
</tr>
<tr>
<td>North Carolina</td>
<td>N.C.</td>
</tr>
<tr>
<td>North Dakota</td>
<td>N. Dak.</td>
</tr>
<tr>
<td>Ohio (Not abbreviated)</td>
<td></td>
</tr>
<tr>
<td>Oklahoma</td>
<td>Okla.</td>
</tr>
<tr>
<td>Oregon</td>
<td>Oreg.</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>Pa.</td>
</tr>
<tr>
<td>Puerto Rico</td>
<td>P.R.*</td>
</tr>
<tr>
<td>Rhode Island</td>
<td>R.I.</td>
</tr>
<tr>
<td>South Carolina</td>
<td>S.C.</td>
</tr>
<tr>
<td>South Dakota</td>
<td>S. Dak.</td>
</tr>
<tr>
<td>Tennessee</td>
<td>Tenn.</td>
</tr>
<tr>
<td>Texas</td>
<td>Tex.</td>
</tr>
<tr>
<td>Utah (Not abbreviated)</td>
<td></td>
</tr>
<tr>
<td>Vermont</td>
<td>Vt.</td>
</tr>
<tr>
<td>Virgin Island</td>
<td>V.I.*</td>
</tr>
<tr>
<td>Virginia</td>
<td>Va.</td>
</tr>
<tr>
<td>Washington</td>
<td>Wash.</td>
</tr>
<tr>
<td>West Virginia</td>
<td>W. Va.</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>Wis.</td>
</tr>
<tr>
<td>Wyoming</td>
<td>Wyo.</td>
</tr>
</tbody>
</table>

*Not abbreviated in NRC database.

NOTE: State names in the current test version of DIRLINE are abbreviated according to the above list. You will be notified as soon as the USPS two-letter state abbreviations are implemented.
Related Registry Number Information in MESH VOCABULARY and MEDLINE
Ruth L. Stander, Index Section, NLM

INTRODUCTION

In the past, chemical records in the MESH VOCABULARY File for "parent" compounds (identified in the Name of Substance (NM) field) have included Chemical Abstracts Service registry numbers for salts and/or stereoisomers in the Note field (NO). These numbers were not directly searchable, and therefore served an informational purpose only. This information is being transferred to a new data element, the Related Registry Number (RR). This directly searchable field contains the related registry number and identification of the relationship to the "parent"; for example:

RR - 52336-53-5 (iodide)
RR - 66461-18-5 ((+)-isomer)

RR FIELD SEARCHING IN MESH

The RR field is searchable in the MESH VOCABULARY File by typing the registry number with or without the (RR) category qualifier. The parenthetical information describing the information is ignored for searching.

SAMPLE RECORD

<table>
<thead>
<tr>
<th>Name of Substance</th>
<th>Registry Number for NM</th>
<th>Registry Numbers for salts and stereoisomers</th>
<th>MeSH Heading equivalent</th>
<th>Usually contains information about the NM or related compounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NM - cefonicid</td>
<td>RR - 61270-58-4 (6R-(alpha, R, beta)-isomer)</td>
<td>HM - CEFAMANDOLE/analogs</td>
<td>RN given refers to (6R-(6alpha,7beta(R*))-isomer); USAN reference for di-Na salt; RN for cpd without isomeric designation not in Chemline 7/5/83</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(RR - 61270-78-8 (di-Na salt(6R-(6alpha,7beta(R*))-isomer)); RR - 69088-92-2 (6R-(6alpha,7beta))-isomer); RR - 71420-79-6 (mono-Na salt)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SY - SK&amp;F 75073</td>
<td></td>
</tr>
</tbody>
</table>

The record above can be retrieved as follows:

Recommended | Alternate
---|---
USER: CEFONICID | -or- USER: CEFONICID (NM)
USER: SK&F 75073 | -or- USER: SK&F 75073 (SY)
USER: 61270-58-4 | -or- USER: 61270-58-4 (RN)
USER: 69088-92-2 | -or- USER: 69088-92-2 (RR) (The other two RR numbers could also be used.)

Note that the category qualifier is optional in each case.
RELATED REGISTRY NUMBER SEARCHING IN MEDLINE

In MEDLINE, citations for cefonicid can be retrieved as follows:

<table>
<thead>
<tr>
<th>Recommended</th>
<th>Alternate</th>
</tr>
</thead>
<tbody>
<tr>
<td>USER:</td>
<td></td>
</tr>
<tr>
<td>CEFONICID (NM)</td>
<td>(none)</td>
</tr>
<tr>
<td>USER:</td>
<td></td>
</tr>
<tr>
<td>SK&amp;F 75073 (NM)</td>
<td>(none)</td>
</tr>
<tr>
<td>USER:</td>
<td></td>
</tr>
<tr>
<td>61270-58-4</td>
<td>-or-</td>
</tr>
<tr>
<td>USER:</td>
<td></td>
</tr>
<tr>
<td>69088-92-2</td>
<td>-or-</td>
</tr>
</tbody>
</table>

All six strategies above will retrieve the same set of citations. Note that the Name of Substance and synonym searches must be qualified by (NM). The Registry Numbers may be searched with or without the (RN) qualifier, but if a qualifier is used, it must be (RN) even if the number is really an RR in the MeSH field. The RR data is searched in MEDLINE as though it were an RN through a special mapping program between MEDLINE and the MESH VOCABULARY File. The related registry numbers are not carried on the MEDLINE records, but are searched in a manner similar to entry terms for actual MeSH Headings and synonyms for Names of Substances.

Because it is general NLM policy to create MeSH chemical records for parent compounds for MEDLINE indexing, searches by Registry Number for structurally identical compounds may have missed some retrieval in the past. Now a Registry Number search in MEDLINE retrieves all citations about structurally identical compounds, whether the parent Registry Number, or a salt or isomer Registry Number present in the MESH file is used. RN and NM searching is only available from 1980 forward; the backfiles cannot be searched with these techniques.

NLM expects to complete the addition of the RR field to all chemical records in the MESH VOCABULARY File by the time the 1984 version of the file becomes available in December 1983.

*****
The PDQ database has sparked much interest among our Cancer Center researchers. This interest has generated several geographic-based search requests. Retrieving protocols of a specific geographic location is facilitated by the use of the stringsearching capability on the individual state field. The following illustrates the strategy to retrieve the protocols operating in the San Francisco, California area:

```
SS 1 /C?
USER:  
file pdq 
PROG:  
YOU ARE NOW CONNECTED TO THE PDQ FILE.

SS 1 /C?
USER:  
ca 
PROG:  
SS (1) PSTG (219)

SS 2 /C?
USER:  
ts (ca) : san francisco : 
PROG:  
(48) SCHD (20) QUAL: CONT? (Y/N)

USER:  
Y 
PROG:  
(107) SCHD (31) QUAL: CONT? (Y/N)

USER:  
Y 
PROG:  
(150) SCHD (55) QUAL: CONT? (Y/N)

USER:  
Y 
PROG:  
(201) SCHD (71) QUAL: CONT? (Y/N)

USER:  
Y 
PROG:  
SS (2) PSTG (71)
```

All California protocols retrieved

Stringsearch on city
It is also possible to use the same method to retrieve numeric strings, such as area codes of telephone numbers or zip codes from the state field. After retrieving the California protocols by searching on CA, either number can be stringsearched as follows:

```
USER:
ts (ca) : 415 :

Area code stringsearch

nts (ca) : 94143 :

Zip code stringsearch
```

Address information for the principal investigator, which is found in the Address (AD) field (and not the state field), can also be obtained by stringsearching. For example:

```
SS 1 /C?
USER:
ca
PROG:
SS (1) PSTG (219)

SS 2 /C?
USER:
ts (ad) : san francisco :
PROG:
(48) SCHD (0) QUAL; CONT? (Y/N)

City stringsearch on AD field

USER:
Y
PROG:
(193) SCHD (5) QUAL; CONT? (Y/N)

USER:
Y
PROG:
SS (2) PSTG (5)
```

Stringsearch can also be used to isolate a specific institution name within the state. For example, after retrieving the California protocols as previously illustrated, one could stringsearch as follows:

```
SS 2 /C?
USER:
ts (ca) : city of hope :
PROG:
(48) SCHD (3) QUAL; CONT? (Y/N)

Institution stringsearch on CA field

USER:
Y
PROG:
SS (2) PSTG (67)
```
Online searchers have expressed curiosity about the number of citations at which offline printing becomes more cost-beneficial than online printing. In an effort to find out, the MEDLARS Management staff has conducted tests on the MEDLINE and TOXLINE databases. These tests involved printing out groups of citations at 300 or 1200 baud in several different print formats, and comparing the online costs with the offprint costs for the same groups of citations.

**MEDLINE**

A group of ten single-term searches was used to create a sample from MEDLINE. The group as a whole contained 46.9% abstracts online, as compared to 46.5% in MEDLINE for that time period. The response time was never greater than three seconds during the test. Citations were printed out in SD, FU, AR, and DL format at 300 and 1200 baud. The average number of seconds required to print one citation in each format at each speed is shown below:

<table>
<thead>
<tr>
<th>Format</th>
<th>300 baud</th>
<th>1200 baud</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD</td>
<td>9.2</td>
<td>2.6</td>
</tr>
<tr>
<td>FU</td>
<td>27.0</td>
<td>7.5</td>
</tr>
<tr>
<td>AR</td>
<td>27.5</td>
<td>7.6</td>
</tr>
<tr>
<td>DL</td>
<td>58.7</td>
<td>17.5</td>
</tr>
</tbody>
</table>

Multiplying the appropriate number by the number of citations being printed and by the connect time charge of $0.0061 (0.61 cents) per second at prime time rates or $0.0042 (0.42 cents) per second at non-prime time rates yields the total charge for any group of citations. Thus, for a group of 50 citations from MEDLINE, the charges would be:

<table>
<thead>
<tr>
<th>Format</th>
<th>300 baud</th>
<th>1200 baud</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD</td>
<td>$2.81</td>
<td>$0.55</td>
</tr>
<tr>
<td>FU</td>
<td>$8.24</td>
<td>$1.60</td>
</tr>
<tr>
<td>AR</td>
<td>$8.39</td>
<td>$1.55</td>
</tr>
<tr>
<td>DL</td>
<td>$17.91</td>
<td>$3.68</td>
</tr>
</tbody>
</table>

For offline printing of a group of citations, page charges and the online time charges for answering the offline print routine questions must be considered.

A group of 50 citations from MEDLINE can be printed on 6 pages in the SD format, 11 pages in the FU format, 12 pages in the AR format, and 30 pages in the DL format, for page charges of $1.08, $1.98, $2.16, and $5.40 respectively. Added to this is the cost of one (at 1200 baud) or two (at 300 baud) minutes of online time for the procedure itself: $0.73 or $0.50 for two minutes at prime or non-prime rates, $0.36 or $0.25 for one minute at prime or non-prime rates. A summary table of offline costs for the four formats at each speed is shown below:

<table>
<thead>
<tr>
<th>Format</th>
<th>300 baud</th>
<th>1200 baud</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD</td>
<td>$2.81</td>
<td>$0.55</td>
</tr>
<tr>
<td>FU</td>
<td>$8.24</td>
<td>$1.60</td>
</tr>
<tr>
<td>AR</td>
<td>$8.39</td>
<td>$1.55</td>
</tr>
<tr>
<td>DL</td>
<td>$17.91</td>
<td>$3.68</td>
</tr>
</tbody>
</table>

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A group of 50 citations from MEDLINE can be printed on 6 pages in the SD format, 11 pages in the FU format, 12 pages in the AR format, and 30 pages in the DL format, for page charges of $1.08, $1.98, $2.16, and $5.40 respectively. Added to this is the cost of one (at 1200 baud) or two (at 300 baud) minutes of online time for the procedure itself: $0.73 or $0.50 for two minutes at prime or non-prime rates, $0.36 or $0.25 for one minute at prime or non-prime rates. A summary table of offline costs for the four formats at each speed is shown below:
Total Cost (Pages + Connect Time)

<table>
<thead>
<tr>
<th>Speed</th>
<th>SD</th>
<th>FU</th>
<th>AR</th>
<th>DL</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 (prime)</td>
<td>1.82</td>
<td>2.72</td>
<td>2.90</td>
<td>6.14</td>
</tr>
<tr>
<td>300 (non-prime)</td>
<td>1.58</td>
<td>2.48</td>
<td>2.66</td>
<td>5.90</td>
</tr>
<tr>
<td>1200 (prime)</td>
<td>1.45</td>
<td>2.66</td>
<td>2.53</td>
<td>5.77</td>
</tr>
<tr>
<td>1200 (non-prime)</td>
<td>1.33</td>
<td>2.33</td>
<td>2.41</td>
<td>5.65</td>
</tr>
</tbody>
</table>

A comparison of the two tables indicates that, while printing offline is much less costly than printing online at 300 baud, online printing at 1200 baud costs less than printing offline, especially at non-prime rates.

TOXLINE

Similar results were obtained for the TOXLINE database. The online charge for connect time for TOXLINE is $0.92 per minute prime time and $0.80 per minute non-prime time; offline pages cost $0.41 per page. The summary table below shows how the online and offline printing costs compare for a group of 50 citations printed in the SD, FU, and DL formats at 300 and 1200 baud:

<table>
<thead>
<tr>
<th>Speed</th>
<th>Online Printing Costs</th>
<th>Offline Printing Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SD</td>
<td>FU</td>
</tr>
<tr>
<td>300 baud (prime)</td>
<td>8.85</td>
<td>39.10</td>
</tr>
<tr>
<td>300 baud (non-prime)</td>
<td>7.70</td>
<td>33.85</td>
</tr>
<tr>
<td>1200 baud (prime)</td>
<td>2.75</td>
<td>9.65</td>
</tr>
<tr>
<td>1200 baud (non-prime)</td>
<td>2.38</td>
<td>7.97</td>
</tr>
</tbody>
</table>

CONCLUSION

Under the conditions of these tests and the current price structure, printing online at 1200 baud is not only fast and convenient, it also costs less than offline printing.

*****

AVLINE Update
Alice E. Jacobs, Technical Services Division, NLM

NLM Distribution Services

AVLINE now contains new values in the procurement source (PC) and shelving location (SL) fields. The new values are directly searchable and printable to aid in the identification of audiovisual titles available for loan from NLM. Until all the affected AVLINE records have been changed, it is advisable to combine the new and the old form of the PC and SL values when searching for audiovisuals that are part of the NLM distribution programs.
FIELD | OLD VALUE | NEW VALUE
--- | --- | ---
PC | National Medical Audiovisual Center | National Library of Medicine (U.S.)
PC | NMAC-ILL | NLM-ILL
PC | NMAC-ILL(S) | NLM-ILL(S)
SL | NMAC | AVRS/RSD
SL | NMAC(S) | AVRS/S

These changes reflect the establishment of the Audiovisual Resources Section in the Reference Services Division. Please update Part 9.5.43.1 of the Online Services Reference Manual to reflect these changes.

Restricted Use Audiovisuals in Psychiatry

A new shelving location value, APA, has been established in AVLINE to indicate selected audiovisuals in psychiatry which have been withdrawn from NLM's collection. These audiovisual programs are restricted to professional use and have been transferred to the library of the American Psychiatric Association. Users desiring more information about availability of these titles should contact the American Psychiatric Association; 1400 K Street, N.W.; Washington, DC 20005; telephone (202) 682-6000.

*****

CLASSIFICATION CODE CHANGES IN RTECS

Jeanne C. Goshorn, Specialized Information Services, NLM

The Classification Code (CC) field in the online Registry of Toxic Effects of Chemical Substances (RTECS) file is a multiply occurring field containing terms used to classify a compound by effect or use. In order to more accurately describe the study data which the National Institute of Occupational Safety and Health uses to generate these terms, the following changes have been made for three terms:

TUMOR DATA replaces tumorigen
MUTATION DATA replaces mutagen
REPRODUCTIVE DATA replaces teratogen

The full listing of RTECS Classification Codes can be found on page 409, Part 14.4.6, of the NLM Online Services Reference Manual. The user is reminded that the Classification Codes are inserted when certain types of data are present within a record; they do not represent an evaluation of a substance's toxicity. The new terms will better indicate the presence of certain types of data without implying either positive or negative effects (e.g., TUMOR DATA indicates a study with observations for tumor development). Please consult the NLM Technical Bulletin article, "Classification Codes in RTECS," pp. 8-12, February 1982, for more details. The following partial record from RTECS illustrates the use of these new classification code terms:
Ann J. Preiss, Johns Hopkins University, MEDLARS Management Section, NLM

The POPLINE Thesaurus Geographical Supplement enclosed with this issue of the NLM Technical Bulletin was compiled by the POPLINE producers in cooperation with the United Nations-based Population Information Network (POPIN). It is an attempt to standardize the terms used to describe geographical regions and country names for indexing and retrieval of population literature. The supplement is based on terms used in the Demographic Yearbook, which is updated and published annually by the United Nations (UN) Statistical Office. The primary exception to the UN practice in this supplement is that geographic, rather than political country names, are used to facilitate searching (e.g., CHINA rather than PEOPLE'S REPUBLIC OF CHINA).

The Geographical Supplement should be used in conjunction with the POPLINE Thesaurus, available from the Population Information Program or the Center for Population and Family Health Library/Information Program. It should simplify geographic searching in POPLINE.

The basic purpose of this supplement is to increase thesaurus compatibility as well as compatibility among information systems and networks in the population field. Comments about the content of the supplement should be directed to the POPLINE producers listed below. Questions about its use for database searching may be directed to the MMS Service Desk.

Population Information Program (PIP)  *Population Index (IND)
The Johns Hopkins University  Princeton University
624 North Broadway  21 Prospect Avenue
Baltimore, MD 21205  Princeton, NJ 08540

Center for Population and Family Health
Library/Information Program (CPFH)
Columbia University
60 Haven Avenue
New York, NY 10032

*No thesaurus or document requests to this producer.
The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

### BIOTECHNOLOGY
1.1982--
ADDISON-WESLEY
READING MA UNITED STATES
ADDISON-WESLEY PUBLISHING COMPANY INC.,
READING MA 01867
IN PROCESS
B19033000

### CLINICAL AND EXPERIMENTAL RHEUMATOLOGY
1.1, JAN-MAR, 1983--
PACINI EDITORE
PIZA ITALY
PACINI EDITORE, VIA S. MARIA 31, 56100
PIZA, ITALY
IN PROCESS
C25570000

### CURRENT TOPICS IN CHINESE SCIENCE. SECTION G, MEDICAL SCIENCES
1.1, 1982--
GORDON AND BREACH
LONDON ENGLAND
ON ORDER
C57670000

### DENTAL MATERIALS JOURNAL
1.1, DEC 1982--
JAPANESE SOCIETY FOR DENTAL MATERIALS AND DEVICES
TOKYO JAPAN
JAPANESE SOCIETY FOR DENTAL MATERIALS AND DEVICES, C/O KOKU HOKEN KYOKAI, 1-44-2 KOMAGOME, TOSHIMA-KU, TOKYO 170 JAPAN
IN PROCESS
D04445000

### JOURNAL OF EXPERIMENTAL PATHOLOGY
1.1, 1983--
MARY ANN LIEBERT
NEW YORK UNITED STATES
MARY ANN LIEBERT, 157 EAST 86TH ST, NEW YORK NY 10028
ON ORDER
J20615000

### JOURNAL OF HYPERTENSION
1.1, JUN 1983--
GOWER ACADEMIC JOURNALS
VOL. 1 COMPLETE IN 4 NOS.
LONDON ENGLAND
GOWER MEDICAL PUBLISHING, MIDDLESEX HOUSE, 34-42 CLEVELAND ST, LONDON W1P 5FB, ENGLAND
IN PROCESS
J23623000

### REVIEW OF BIOLOGICAL RESEARCH IN AGING
1.1, 1983--
ALAN R. LISS
NEW YORK UNITED STATES
ALAN R. LISS INC., 150 FIFTH AVENUE, NEW YORK NY 10011
IN PROCESS
R28515000

### SOUTH AFRICAN JOURNAL OF CONTINUING MEDICAL EDUCATION
1983--
MEDICAL ASSOCIATION OF SOUTH AFRICA
SOUTH AFRICA
ON ORDER
S31670000

### South African Journal of Continuing Medical Education (1983--)
1983--
MEDICAL ASSOCIATION OF SOUTH AFRICA
ON ORDER
S31670000

### ZEITSCHRIFT FUR UNFALLCHIRURGIE, VERSICHERUNGSMEDIZIN UND BERUFSKRANKHEITEN
76N1, 1983--
HANS HUBER
CONTINUES: ZEITSCHRIFT FUR UNFALLMEDIZIN UND BERUFSKRANKHEITEN
BERN SWITZERLAND
W1 ZE629T
Z05970000
THE NLM
TECHNICAL
BULLETIN

REGULAR ITEMS

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3 Technical Notes

15 New Serials and Title Changes Announcements - July 1983

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6 Call for Cancer File User Surveys

7 General Guidelines for Cost-Effective Searching

10 Monthly Search Hint: Searching for Series in CATLINE

11 Remarks by Lois Ann Colaianni at the Annual Meeting of the Medical Library Association

12 NLM Online Users' Meeting

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<tr>
<th>DATABASE</th>
<th>TOTAL RECORDS</th>
<th>DATES COVERED</th>
<th>DATE LAST UPDATED</th>
<th>LATEST UPDATE TAG</th>
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<tr>
<td>AVLINE</td>
<td>11,768</td>
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<td>25 AUG 83</td>
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<td>BIOETHICS</td>
<td>14,752</td>
<td>JAN 73-FEB 83</td>
<td>18 APR 83</td>
<td>8304(EM)</td>
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<td>CANCERLIT</td>
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<td>JAN 63-AUG 83</td>
<td>08 AUG 83</td>
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<td>CHEMLINE</td>
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<td>17 AUG 83</td>
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<td>MED66</td>
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<td>JAN 66-DEC 70</td>
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<td>MESH VOC</td>
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<tr>
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<td>SDILINE</td>
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<td>1983</td>
<td>16 AUG 83</td>
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<td>TDB</td>
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<td>24 AUG 83</td>
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<td>25 JUL 83</td>
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<td>CBAC</td>
<td>307,185</td>
<td>1979-VOL 98(12,13)</td>
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<tr>
<td>TOXBIB</td>
<td>107,344</td>
<td>1979-AUG 83</td>
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<tr>
<td>IPA (ASHP)</td>
<td>22,119</td>
<td>1979-VOL 20(13,14)</td>
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<tr>
<td>HEEP</td>
<td>49,263</td>
<td>1979-VOL 12(8)</td>
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<td>PESTAB</td>
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<td>EMIC</td>
<td>39,495</td>
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<td>ETIC</td>
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<td>1950-MAY 83</td>
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<td>RPROJ</td>
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<td>1979-FEB 82</td>
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<td>TD3</td>
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<td>GRA &amp; I 82(25)-83(10,11)</td>
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<td>TOXBACK74</td>
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<td>19 APR 82</td>
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<td>CBAC</td>
<td>265,253</td>
<td>1974-1978</td>
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<tr>
<td>TOXBIB</td>
<td>103,386</td>
<td>1974-1978</td>
<td></td>
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<td>IPA (ASHP)</td>
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<td>1974-1978</td>
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<tr>
<td>HEEP</td>
<td>61,871</td>
<td>1974-1978</td>
<td></td>
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<td>PESTAB</td>
<td>13,537</td>
<td>1974-1978</td>
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<td>*TOXBACK65</td>
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<td>19 APR 82</td>
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<td>CBAC</td>
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<td>TOXBIB</td>
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<td>HEEP</td>
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<td>1970-1973</td>
<td></td>
<td></td>
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<td>HAPAB/PESTAB</td>
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<td>1968-1973</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAYES</td>
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<td>1940-1968</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMIC</td>
<td>4,552</td>
<td>1940-1973</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* = AVAILABLE ONLY THRU OFFSEARCH
TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note include a reference to the section of the 1982 Online Services Reference Manual that is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

NEW JOURNAL SUBSET VALUE - A new Journal Subset (SB) tag has been added to MEDLARS. The value is "X" and it appears in several databases with slight variations in meaning. The following summarizes these differences:

<table>
<thead>
<tr>
<th>Database</th>
<th>Tag</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERLINE</td>
<td>X</td>
<td>Identifies the core list of journals for the new EXPRESS database (about 180 titles). A corresponding tag is the value 'CXP' in the Abstracting &amp; Indexing Tag (AI) field. The tags X and CXP mean the same thing.</td>
</tr>
<tr>
<td>EXPRESS/ CANCERLIT</td>
<td>X</td>
<td>Identifies the citations from all journals selected for the EXPRESS database (about 400 titles total). Effective Date: 8306 (EM) forward.</td>
</tr>
<tr>
<td>MEDLINE</td>
<td>X</td>
<td>Identifies all citations from the EXPRESS core list journals whether or not the articles are cancer-related. It is added to the MEDLINE citation during validation against SERLINE before the EXPRESS search profile is run. Therefore, it does not have the same meaning as the EXPRESS/CANCERLIT X (SB) tag where it does mean the citation is cancer-related. Effective Date: 8308 (EM) forward.</td>
</tr>
<tr>
<td>HEALTH</td>
<td>X</td>
<td>Has same meaning as in MEDLINE. Tag is simply retained on citations in the MEDLINE component of the HEALTH file. Effective Date: 8308 (EM) forward.</td>
</tr>
</tbody>
</table>

NEW Aliases FOR TOXBACK DATABASES - Two new database name aliases have been implemented for the TOXBACK files as follows:

<table>
<thead>
<tr>
<th>DATABASE NAME</th>
<th>ALIAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOXBACK74</td>
<td>T74</td>
</tr>
<tr>
<td>TOXBACK65</td>
<td>T65</td>
</tr>
</tbody>
</table>

These aliases may be used when issuing a FILE command or in response to the FILES? prompt during an OFFSEARCH in lieu of the established name for the database.
UPCOMING REGIONAL TRAINING CLASSES

Searchers in Region 3 (Regional Medical Library at the University of Illinois, Chicago) and Region 2 (Southeastern/Atlantic Regional Medical Library Services) should take special note of the upcoming Abbreviated Advanced courses being held in these regions in the fall. These classes are scheduled as follows:

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 26-28, 1983</td>
<td>Chicago, IL</td>
</tr>
<tr>
<td>November 8-10, 1983</td>
<td>Atlanta, GA</td>
</tr>
</tbody>
</table>

Individuals from these and other regions who want to attend either class should contact the MEDLARS Management Section for a training application.

SEARCHING TITLE ABBREVIATIONS

A Title Abbreviation (TA) listed in SERLINE, the List of Journals Indexed for Online Users, or the List of Journals Indexed for Index Medicus with a bracket as part of the Title Abbreviation should be searched online without the bracket. For example, the Title Abbreviation:

```
Br Med J [Clin Res]
```

should be searched online as:

```
Br Med J Clin Res (TA)
```

However, Title Abbreviations that include parentheses should be searched with the parentheses. For example, the Title Abbreviation:

```
Dent Health (London)
```

should be searched online as:

```
Dent Health (London) (TA)
```

The List of Serials Indexed for Online Users contains the Title Abbreviations for titles that have ceased publication but were, at some point in time, indexed for MEDLINE. These Title Abbreviations still appear in the MEDLINE backfiles, and because of this, are listed in the List of Serials. Therefore, some Title Abbreviations may receive a No Postings (NP) message if searched in the current MEDLINE file. A searcher may verify the currency of a title by searching any Title Abbreviation in SERLINE.
THE @ SEARCH INDICATOR

- In the past, searchers were asked to input an "@" (at sign) following each intellectual search input during a search session. This @ was used by NLM to calculate the number of searches performed online. NLM no longer calculates the number of searches in this manner; therefore, searchers may cease inputting the @ following each search.

MESH TOOLS, 1984

- The following 1984 MeSH tools may now be ordered from NTIS:

  - Medical Subject Headings - Annotated Alphabetic List, 1984 PB83-223156 $17.00
  - Medical Subject Headings - Tree Structures, 1984 PB83-223164 $12.00
  - Permuted Medical Subject Headings, 1984 PB83-234781 $12.00

PDQ/DIRECTORY FREE CONNECT TIME

- At the request of the National Cancer Institute, online connect time for the PDQ/DIRECTORY database will be free through September 1983. OFFSEARCHes and OFFLINE prints are not available from this file at the present time.

*****

ANNOUNCEMENT OF INTERLIBRARY LOAN CHARGES
James C. Cain, Circulation and Control section, NLM

Effective October 1, 1983, the National Library of Medicine (NLM) will charge domestic libraries $5.00 and foreign libraries $7.00 for each interlibrary loan filled by NLM on or after that date. This change in policy is in response to the philosophy within the Federal Government to establish fees for services, to encourage the development of resources regionally and locally, and to bring NLM practice into conformity with Resource and Regional Medical Libraries in the Regional Medical Library Network.

The $5.00 charge to domestic libraries will be a standard fee for the provision of a photocopy of a journal article or for loan of a monograph or videocassette. There will be no charge for loan requests which are not filled. U.S. Federal libraries are not charged for loans filled by NLM. The $7.00 charge to foreign libraries is the fee for provision of a photocopy of a journal article. Material in the original form is not loaned outside the United States. Fees include charges for handling and postage.
Requesters are urged to establish deposit accounts with the National Technical Information Service (NTIS). Invoices will be issued quarterly. For information on deposit accounts, write or call: National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161; (703) 487-4770.

All of the required procedures for securing interlibrary loans from NLM will continue to be as specified in the Fact Sheet "Interlibrary Loan Policy" revised in 1983, and regularly printed in the monthly Index Medicus (also available from Circulation and Control Section).

Questions regarding this policy should be addressed to Circulation and Control Section, Reference Services Division, National Library of Medicine, 8600 Rockville Pike, Bethesda, Maryland 20209, telephone: (301) 496-5511.

*****

CALL FOR CANCER FILE USER SURVEYS

The International Cancer Research Data Bank (ICRDB) program is interested in obtaining copies and results of user surveys that you may have conducted during the last two years on the cancer files (CANCERLIT, CANCERPROJ, CLINPROT, PDQ). We are interested in reviewing surveys that evaluated any or all cancer files, or surveys that contained questions on cancer files. All survey information will be kept confidential. Please mail surveys, results, and related information to:

Chris Olson  
National Cancer Institute  
ICRDB Program  
Bloch International Cancer Information Center  
Bethesda, MD 20205

If you have any questions, please feel free to phone the ICRDB office at (301)496-7403 and ask for Chris Olson.

*****
As described in the July issue of the NLM Technical Bulletin, it is expected that usage of the NLM online system will be charged according to a new method beginning in the fall. Online searching will be billed on the basis of an algorithm that will include connect hour use (reduced from the current charges), work performed by the NLM computer, and characters sent to the user's terminal. The expectation is that users who make "average" demands on the computer's resources will pay about as much per month as they did before. In addition to seeking methods for reducing connect time, such as using 1200 baud rather than 300 baud equipment, or preparing search strategies offline before logging in, users may also want to reduce non-essential printing and use of computer work units (disk accesses) so that their use of the system will be as cost-effective as possible.

Several methods of reducing computer work units have been discussed in online training classes, the NLM Technical Bulletin, and the Online Services Reference Manual, under the names "efficient," "judicious," or "cost-effective" searching.

Pre-explosions

One excellent way to reduce computer work units is to search with pre-explosions in preference to "ordinary" explosions whenever possible. Headings that have pre-explosions available are marked with a dot in the Annotated Alphabetic MeSH, and are listed separately in the prefatory section. A comparison of the time and work units required to search these terms as "ordinary" explosions and as pre-explosions is shown below:

<table>
<thead>
<tr>
<th>EXPLOSIONS</th>
<th>PRE-EXPLOSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXP ANTIBIOTICS</td>
<td>ANTIBIOTICS (PX)</td>
</tr>
<tr>
<td>Generates 7 TIME OVFLWs</td>
<td>No TIME OVFLWs</td>
</tr>
<tr>
<td>Uses 516 work units</td>
<td>Uses 15 work units</td>
</tr>
<tr>
<td>EXP HEART DISEASES</td>
<td>HEART DISEASES (PX)</td>
</tr>
<tr>
<td>Generates 4 TIME OVFLWs</td>
<td>No TIME OVFLWs</td>
</tr>
<tr>
<td>Uses 328 work units</td>
<td>Uses 15 work units</td>
</tr>
<tr>
<td>EXP VIRUSES</td>
<td>VIRUSES (PX)</td>
</tr>
<tr>
<td>Generates 10 TIME OVFLWs</td>
<td>No TIME OVFLWs</td>
</tr>
<tr>
<td>Uses 743 work units</td>
<td>Uses 17 work units</td>
</tr>
</tbody>
</table>
Redundant Searching

In general, any technique that reduces the number of TIME OVFLW messages received will reduce the work units used. Redundant use of explosions and highly posted terms will have considerable impact on the number of work units required for a search. For example, this search

SS 1: EXP EYE DISEASES AND MALNUTRITION
SS 2: EXP EYE DISEASES AND NUTRITION
SS 3: EXP EYE DISEASES AND DIET
SS 4: 1 OR 2 OR 3

uses 935 work units and generates 12 TIME OVFLWs. The less redundant formulation would be:

SS 1: EXP EYE DISEASES
SS 2: MALNUTRITION OR NUTRITION OR DIET
SS 3: 1 AND 2

which uses 381 work units and generates only 4 TIME OVFLW messages. It is more efficient to place large retrieval sets or highly-posted terms that will be referred to subsequently into separate search statements. They may then be combined with subsequent terms using the search statement number for the items retrieved, rather than typing in the terms anew each time and forcing the computer to re-retrieve the same terms.

Stringsearching

This is the most work unit-intensive search procedure in ELHILL. Under the new algorithm it will be more important than ever to follow the guidelines for judicious use of stringsearching that have been published in the Technical Bulletin, the Manual, and in NLM online training materials. To summarize:

1) Limit retrieval as much as possible before stringsearching.

2) Stringsearch for items that could be searched directly (such as HUMAN or ENG (LA)) only with a retrieval set of fewer than 300 citations. For example, the retrieval set for the term AIDS, 150 postings, can be stringsearched for ENG language or searched directly:

... continued
<table>
<thead>
<tr>
<th>STRINGSEARCHED</th>
<th>DIRECTLY SEARCHED</th>
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<tbody>
<tr>
<td>AIDS</td>
<td>AIDS</td>
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<tr>
<td>PROG: SS (1) PSTG (150)</td>
<td>PROG: SS (1) PSTG (150)</td>
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<tr>
<td>SS 2 /C?</td>
<td>SS 2 /C?</td>
</tr>
<tr>
<td>USER: TS (LA) ENG</td>
<td>USER: 1 AND ENG (LA)</td>
</tr>
<tr>
<td>Generates one CONTINUE? message</td>
<td>Generates 6 TIME OVFLWs</td>
</tr>
<tr>
<td>Uses 153 work units</td>
<td>Uses 466 work units</td>
</tr>
</tbody>
</table>

Because the set is fewer than 300, stringsearching is more cost-effective. However, with a set of more than 300 citations, searching directly would have been more efficient.

3) Stringsearch multiple items in a single TS instruction

   TS (LA) ENG OR FRE OR GER

   rather than using several such instructions and then ORing them together.

4) Do not stringsearch when a Text Word search will retrieve the same results:

   Stringsearch.... MAXILLARY NEOPLASMS
   PROG:
   SS (1) PSTG (280)

   SS 2 /C? 
   USER:
   TS (TI) :OSTEOSARCOMA : OR : OSTEOSARCOMA : (AB)

   Generates 4 CONTINUE? messages
   Uses 319 work units

   Text Word.... MAXILLARY NEOPLASMS AND OSTEOSARCOMA (TW)

   Uses 26 work units

*****

PLEASE TYPE NEWS TO SEE THE MOST RECENT NEWS ITEMS ONLINE

-9-
Background

In February 1983, a change was made in the format of the Series fields (SE), (CE), and (PE). (See the February 1983 NLM Technical Bulletin, page 5.) These fields consist of two subelements: the first holds the series title and the second holds the series number. In the past, the volume or issue designation (e.g., v. or no.) was included in the first subelement. Now it appears as part of the second subelement, which is more consistent with the U.S. MARC (Machine-Readable Cataloging) formats for bibliographic data. In ELHILL, a second or succeeding subelement is represented graphically by a forward slash mark.

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<td>DHEW PUBLICATION ; NO. (NIH)/76-1029</td>
<td>DHEW PUBLICATION ;/NO. (NIH) 76-1029</td>
</tr>
</tbody>
</table>

Impact on Searching

Only the first subelement of the Series field is Text Word searchable. In most cases, this has no impact on searching. However, before regeneration, the DHEW, DHHS, HEW series included the institute or agency initialism after the volume designator in the first subelement. Since the initialism, which is actually part of the series issue number, was moved to the second subelement, searching by Text Word on the institute initials is no longer possible. If the title of the piece is known, it is better to search by Text Word or title searchkey on the Title (TI) field. The year of publication can also be used to limit retrieval in order to efficiently stringsearch the series number.

Suggested Search Techniques

SS 1: (TW) DHEW AND PUBLICATION

Text Word search retrieves over 2000 postings

SS 2: 1 AND 1976(Y1)

Limit by publication year, if known. NOTE: The first digits of the series number are not necessarily the year of publication. Sometimes the number is assigned several years in advance of actual publication.

OR

1 AND ____ (TW)

Limit by another Text Word from the Title, if known.

SS 3: TS (SE) :76#1029:

STRINGSEARCH this smaller subset for number.

*****
REMARKS BY LOIS ANN COLAIANNI, ACTING ASSOCIATE DIRECTOR FOR LIBRARY OPERATIONS, NLM, AT THE ANNUAL MEETING OF THE MEDICAL LIBRARY ASSOCIATION (MLA), MAY 30, 1983

These opening remarks were made by Mrs. Colaianni at the NLM Online Users' Meeting held at MLA in Houston in May. The questions and answers that followed can be found on page 12 of this issue.

Excessive or Poor Response Time:

Occasionally there are times on any online computer system when response time may become excessive. The National Library of Medicine wants to assure you that we are doing everything that we can to carefully monitor our response times for the network users and keep response time at an acceptable level. If you are searching and encounter poor response time please call the MEDLARS Management Service Desk to report your experience. We suggest that if response time becomes unacceptable to you or if you want to be sure generally of the fastest response times, that you logoff if response time is poor, and login instead during non-peak usage times. The NLM computer system experiences peak usage times (with approximately 30-40 users on each copy of the program or around 100 total simultaneous ELHILL users) at several times during the day. Those times when the greatest number of users are on, and response time begins to increase, are from 9:30 to 10:00 a.m. ET in the morning, from 2:30 to 3:00 p.m. ET each afternoon, and later, around 5:30 to 6:00 p.m. ET each evening. Generally, if you try to search during times when most people are not searching you will probably find that this action saves you money because the faster response times will allow you to complete your searches faster.

Hot Temperatures and the NLM Computer:

Some of you may remember last year around this same time that, because of problems with high temperatures on the East Coast, there were difficulties encountered with the NLM system. We have taken a number of steps to improve the situation including installation of a new ten-ton air conditioning unit for the computer room. Should we encounter problems with high temperatures this year, in addition to our requesting that you try to limit your access to non-peak usage times, we may have to take some of the files offline temporarily. If this happens, we will alert all users via the online NEWS and identify the specific databases affected as well as including any other information that we feel might be useful to you.

Articles for the NLM Technical Bulletin

I would like to encourage all of you to help transmit searching information to your fellow searchers by writing articles for our NLM Technical Bulletin. While I cannot promise that all will be published, or all published as written, we are very anxious to publish articles that you think will be of interest and value to your colleagues. Please send all articles to the MEDLARS Management Section, NLM; their staff will be in contact with you.
The following questions were posed at the recent NLM Online Users' Meeting held at the Annual Meeting of the Medical Library Association in Houston, Texas. The answers are formal responses prepared after the meeting.

1. Q. Does NLM have plans to release the data collected during the logon procedure regarding the purpose and the type of user for searches?

   A. The data are too preliminary for release and were used for an internal administrative study only. NLM may repeat the procedure to get a better feeling for the accuracy and validity of the data; at that time the data may be released.

2. Q. In your thinking about the charging (new pricing algorithm), did you also think about the possibility of having the cost of the search available at the end of each search so that we know immediately how much the search will cost?

   A. The new SHOW COST command includes both the capability for the user to see database and total terminal session costs on request as well as an automatic display of total terminal time and estimated online costs at the end of the session. (See article on SHOW COST on page 7 of the July NLM Technical Bulletin.)

3. Q. For Automatic SDIs, do the profiles have to be changed each year when you update the search strategy?

   A. There is no edit capability available for stored searches or for saved searches in the present ELHILL program. NLM has requested that capability as an enhancement to MEDLARS (MEDLARS III) but there is no way to make that added capability available to you at this time.

4. Q. When will you update the CANCERPROJ file?

   A. The National Cancer Institute expects the CANCERPROJ file to be updated during late calendar year 1983.

5. Q. Has any thought been given to a patient education information database?

   A. NLM has given thought to a patient education database. However, NLM has felt that the best use of its budget and resources is to focus on materials aimed toward health professionals. This has been the continuing position of the NLM Board of Regents. However, the staff members of a group of Federally-sponsored clearinghouses (diabetes, arthritis, smoking, high blood pressure, etc.) have been communicating with each other for several years. They have mounted a combined database on the BRS system as
a private test file. The group is presently discussing making this database available as a public file. One component at present is the Health Education Database built by CDC's Center for Health Promotion and Education and another component was built by the National Diabetes Information Clearinghouse. This database includes information on health and patient education in the form of citations and abstracts from journal articles, monographs, conference proceedings, reports, and non-published documents selected and collected by CDC. Other similar materials on diabetes and arthritis are also included. Other components are expected to be added. There are many other agencies which have the responsibility for health education; NLM's position has been to avoid redundant efforts at taxpayers' expense. NLM does acquire those materials which assist health professionals in the education of their patients.

6. Q. Is NLM considering allowing downloading from SDI's instead of printing and mailing them out?

A. With the new algorithm there will be a method of charging individuals who wish to download citations for personal use into microcomputers, whether the citations are from SDILINE or MEDLINE. At the present time, NLM has no capability available whereby the results of a user's Automatic SDI searches could be placed in a storage area which could later be accessed by a user for downloading. After we have experience with the new charging algorithm, the possibility exists that we will re-instate the capability for users to execute their own Automatic SDI searches (stored searches) online. Citations retrieved could then be downloaded.

7. Q. Does online printing and downloading refer only to micro- and mini-computers?

A. Online printing is generally on terminal paper. Downloading usually refers to storing citations transmitted from a host (or mainframe) computer directly on the storage units (diskettes or hard disks) of a mini- or micro-computer. Downloading does not refer to offprints. The new pricing algorithm will look at and charge for characters transmitted, whether they are going into a computer or whether they are going onto paper. Policies, prices, and procedures with regard to subsets and downloading are under consideration at NLM. As soon as decisions are made, they will be announced.

8. Q. Will NLM consider indexing medical journal and book reviews?

A. Some years ago, NLM did look at the possibility of developing a database that indexed reviews. However, it was determined that reviews came out too late to be of much value. Medical publishers often have small publishing runs and they soon become out-of-stock. NLM felt that it would not be a cost-effective database. NLM plans to look at this issue again in the future and report on our findings at that time.
9. Q. Is NHPIC (National Health Planning Information Center) still in existence?

A. The National Health Planning Information Center (NHPIC), which is part of the Health Resources Administration, is still in existence. NLM expects some interaction with them regarding inputting prospective NHPIC records to the HEALTH PLANNING & ADMINISTRATION file. (See the article in the May 1983 issue of the NLM Technical Bulletin for information on the addition of retrospective records, 1975-1981, to the HEALTH file.)

10. Q. Regarding Automatic SDI searches and the new pricing algorithm, has any thought been given to applying the differential pricing algorithm to the Automatic SDI program? The $1 per Automatic SDI search per month seems excessive for some of the searches.

A. NLM will be happy to look at the new pricing algorithm with regard to each of the databases and we are doing that. Once we have experience with the new charging algorithm, we may find that it will be possible to re-instate the capability for users to execute their own Automatic SDI searches online and print or download their retrieval immediately. On an individual basis, that action might be more cost-effective for some searches. The $1 per month per Automatic SDI search executed was imposed based on cost-recovery requirements. As you probably know, the SDILINE Automatic SDI searches are processed a week earlier on an NLM-internal SDILINE file built to produce Index Medicus before the publicly available SDILINE file and updated MEDLINE file are put online.

11. Q. Is there any chance that NLM will increase the storage area for saved searches?

A. There are certain hard-coded limits in the ELHILL software. This question of expanding the SAVE (or actually the UUSF) area is an example of limits that are hard-coded and cannot presently be modified. The UUSF area holds approximately 6,220 characters. That, again, is hard-coded--a firm limit. Each user's stored address, password, and ID code with password, pagelength, and pagewidth take about 200 to 300 characters. That leaves around 6,000 characters for saved searches. The UUSF area was never envisioned to hold a large number of saved searches. However, with the new pricing algorithm, NLM will give consideration to reactivating the ability for users to execute stored searches online which would help with solving this particular problem. Once NLM has the pricing algorithm in place so that users know and understand which activities use a great deal of computer work units, then individual users can determine the cost of executing their stored searches online. If it is decided that a certain activity is desirable, for example, executing stored searches online, then users will have to pay for the computer work to perform the activity. If stored searches are made executable online once again, then the need for saved searches is not as great.
12. Q. How many physicians have individual codes for accessing the MEDLARS system and what are NLM's projections?

A. The number of individual physicians accessing MEDLARS directly is around 40. It is unknown how many other individual physicians may be accessing the system through use of a library's code loaned to them. NLM has, from time to time, had individual physicians take the three-day or five-day Initial training course. NLM anticipates that more individuals will be interested in the future and this is why NLM is presently developing materials and programs for training health professionals to access MEDLARS directly.

*****

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - JULY 1983
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

GROWTH AND MATURATION FACTORS
1,1983--
JOHN WILEY AND SONS
NEW YORK UNITED STATES
JOHN WILEY AND SONS, 605 THIRD AVENUE, NEW YORK NY 10158
IN PROCESS
G12230000

JOURNAL / AMERICAN ASSOCIATION FOR MEDICAL TRANSCRIPTION
1N1, SUMMER 1982--
AMERICAN ASSOCIATION FOR MEDICAL TRANSCRIPTION
MODESTO CA UNITED STATES
AMERICAN ASSOCIATION FOR MEDICAL TRANSCRIPTION, BOX 634, MODESTO CA 95353
IN PROCESS
J11390000
$25.00

JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH. PART C: ENVIRONMENTAL CARCINOGENESIS REVIEWS
C1,1983--
MARCEL DEKKER
SUPERSEDES JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH. PART C: ENVIRONMENTAL HEALTH SCIENCES.
NEW YORK UNITED STATES
MARCEL DEKKER JOURNALS, P.O. BOX 11305, CHURCH STREET STATION, NEW YORK NY 10249
ON ORDER
J20221000

JOURNAL OF EXPERIMENTAL AND CLINICAL CANCER RESEARCH
1N1, JAN/MAR 1982--
APSIT
ROMA ITALY
APSIT, 313 VIA DELLA CAMILLUCCIA, 00135 ROMA ITALY
IN PROCESS
J20510000
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JOURNAL OF PSYCHOSOMATIC OBSTETRICS AND GYNAECOLOGY
1N1, MAY 1982--
BOHN, SCHELTEMA AND HOLKEMA
UTRECHT NETHERLANDS
BOHN, SCHELTEMA AND HOLKEMA, P.O. BOX 13075, 3507 LB UTRECHT, NETHERLANDS
IN PROCESS
J36550000

JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH. PART C: ENVIRONMENTAL CARCINOGENESIS REVIEWS
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$50.00

JOURNAL OF PSYCHOSOMATIC OBSTETRICS AND GYNAECOLOGY
1N1, MAY 1982--
BOHN, SCHELTEMA AND HOLKEMA
UTRECHT NETHERLANDS
BOHN, SCHELTEMA AND HOLKEMA, P.O. BOX 13075, 3507 LB UTRECHT, NETHERLANDS
IN PROCESS
J36550000

KANGO MOOK
N1, 1982--
KANEHARA SHUPPAN
TOKYO JAPAN
IN PROCESS
K01710000
THE NLM TECHNICAL BULLETIN

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7 Search Hint: Tips for Cost-Effective Searching Under the New Pricing Algorithm
9 NLM Online Training Program
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14 Comprehensive Searching in the TOXLINE Files
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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • National Institutes of Health
National Library of Medicine
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Whenever applicable, the headings of each Technical Note include a reference to the section of the 1982 Online Services Reference Manual that is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

**COLUMBUS DAY HOLIDAY SCHEDULE**

The NLM computer will be up on Monday, October 10, 1983, the day of the Federal Government observance of Columbus Day. Non-prime rates will be in effect all day. The MEDLARS Management Service Desk will not be staffed. On Columbus Day, Wednesday, October 12, 1983, the NLM computer will be up and the MMS Service Desk staffed. Regular rates will be in effect all day.

**TOXBACK65 ONLINE (Manual 12+)**

Beginning September 6, 1983, the TOXBACK65 file was made available online. Searchers may now search all of the TOXLINE files comprehensively online and immediately print the results of a search at the terminal. The file may be accessed by issuing any of the following commands:

```
FILE TOXBACK65 or FILE TOX65 or FILE T65
```

Rates for searching the TOXBACK65 file are the same as those charged for searching the TOXLINE and TOXBACK74 files.

All of the databases on the National Library of Medicine's MEDLARS system are now available online.

**PDQ/DIRECTORY STATES (STS) FIELD**

A two-letter code for the Canadian provinces has been added to the States (STS) field in the PDQ/DIRECTORY file. These codes are:

```
AB - Alberta
BC - British Columbia
MB - Manitoba
NB - New Brunswick
NF - Newfoundland
NS - Nova Scotia
ON - Ontario
QU - Quebec
SK - Saskatchewan
```

**OVERRIDING SYSTEM PROMPTS**

Generally the issuance of a command in response to a system prompt or question, e.g., CONTINUE PRINTING? (YES/NO), will override the prompt and cause the immediate execution of the command. For example:

```
CONTINUE PRINTING? (YES/NO)
```

**USER:**

FILE HEALTH

**PROG:**

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

**SS 1/C?**

**USER:**
However, there are two system prompts that are not overridden simply by issuing a command. These are:

1) MORE NEWS? (YES/NO)

2) REPLY? (YES/NO), a system prompt received when sending a COMMENT.

These system prompts may be overridden, however, by entering a command using the old form of entry for commands, namely, the initial quotation mark ("). The examples below illustrate:

MORE NEWS? (YES/NO) prompt

If a command is entered in response to this prompt without the quotation mark ("), the NEWS command will be cancelled and the user returned to the next search statement prompt. However, the command input will not be executed:

MORE NEWS? (YES/NO)

USER:
FILE HEALTH
PROG:

SS 3 /C?
USER:

If a command is input with the quotation mark, the command will be executed and the system prompt is overridden:

MORE NEWS? (YES/NO)

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

REPLY? (YES/NO) prompt

If a command is entered in response to this prompt, the computer will consider the command merely as a NO response to the prompt and will continue in the COMMENT mode and query the user, 'CONT. OR FINISHED-'. In other words, the COMMENT command is not cancelled, and the command input in an attempt to override the COMMENT command is not executed:

COMMENT
PROG:
REPLY? (YES/NO)

USER:
FILE HEALTH
PROG:
CONT. OR FINISHED-
USER:
Entering the same command with a quotation mark will override the prompt and cause the execution of the command; however, the user will still be in the COMMENT mode:

COMMENT
PROG:
REPLY? (YES/NO)

USER:
"FILE TOXLINE
PROG:
YOU ARE NOW CONNECTED TO THE TOXLINE FILE.
CONT. OR FINISHED-

USER:

A user may only disengage from the COMMENT mode after the prompt 'CONT. OR FINISHED-' is received, and then only by entering immediately following a USER cue:

a. The response 'FINISHED' (in which case the text that was entered will be sent to MMS)

b. A space followed by a carriage return

c. A command preceded by a quotation mark, e.g.,

CONT. OR FINISHED-

USER:
"FILE TOXLINE
PROG:
YOU ARE NOW CONNECTED TO THE TOXLINE FILE.

SS 1 /C?
USER:

LISTING - Organizations wishing to have their own particular information resource described in the National Referral Center (NRC) database, which is currently the only component of the new DIRLINE (Directory of Information Resources Online) database, should contact:

The Library of Congress
National Referral Center
Washington, DC 20540
202/287-5680

For additional information about DIRLINE, please see the article in the July 1983 NLM Technical Bulletin, p. 9, titled, "DIRLINE: Directory of Information Resources Online."
TDB FILE UPDATE

- The TOXICOLOGY DATA BANK (TDB) file was updated on August 24, 1983 for the Spring/Summer time period. The regular quarterly update of this file is expected to be reinstated with the Fall update. The file statistics are: 3488 complete records, 571 in process records, 4059 total records. Thirty-eight (38) new compounds have been added to the file since the last update.

OFFPRINTS/ OFFSEARCHES ON DIRLINE, PDQ/DIRECTORY

- Effective September 16, 1983, OFFLINE prints and OFFSEARCHES may be requested from the DIRLINE and PDQ/DIRECTORY databases. OFFSEARCHES are charged at $1.00 per OFFSEARCH per database; OFFPRINTS are $.18 per page. Connect time on these two databases is currently free.

PDQ, DIRECTORY, EXPRESS FREE ONLINE TIME

- At the request of the National Cancer Institute, non-billed online access for the PDQ and PDQ/DIRECTORY databases will be extended through December 31, 1983; non-billed online access for the CANCEREXPRESS database will be extended through November 30, 1983. OFFSEARCHES for these databases will continue to be charged at $1.00 per offsearch, per database; OFFPRINT pages are $.18 each.

Users are reminded that CANCEREXPRESS is a small, highly selective database containing cancer-related articles published in some 200 high quality journals during the most recent four months. For this reason, CANCEREXPRESS is particularly useful for retrieving quality articles on a given cancer topic and for formulating test searches.

*****

NEW PRICING ALGORITHM IN EFFECT

The pricing algorithm for online searching will go into effect on Monday, October 3, 1983, for domestic users. This algorithm will be based on connect charges, work performed by the NLM computer, and characters created for transmission to the terminal. Many users will experience no increase in their charges; some may notice modest reductions. Those users making extensive use of the system to retrieve and process large numbers of citations (e.g., downloading) should expect to pay more. Additional information on the new pricing algorithm is contained in the July and August 1983 issues of the NLM Technical Bulletin. Charges for offline print pages, offsearches, and automatic SDIs will remain the same.

The price increases for TDB and RTECS for domestic users announced in June will also go into effect on October 3. The new pricing algorithm will include proportionally higher charges for connect time to reflect the increases for these files. Offprint pages will be $.60 per page for TDB and $.41 per page for RTECS. Offsearch charges will continue at $1.00 per file.
SEARCH HINT: TIPS FOR COST-EFFECTIVE SEARCHING
UNDER THE NEW PRICING ALGORITHM
Carolyn B. Tilley, MEDLARS Management Section, NLM

The new pricing algorithm (see implementation announcement, page 6), is comprised of:

- connect charges
- computer work unit charges
- charges for characters prepared for transmission

This article summarizes some of the ways to reduce charges for computer work units and characters.

1. In general, take advantage of the SAVE and SAVESEARCH capabilities. Formulate your searches in the current or "front" file (i.e., MEDLINE and TOXLINE) and, after saving the strategies, execute them online in the appropriate backfiles. All MEDLINE and TOXLINE backfiles are now online. This will help to reduce both connect and computer work unit charges.

2. TO REDUCE CHARACTER CHARGES...

...print only titles and/or vocabulary terms when ascertaining the relevance of retrieval

If the titles or MeSH headings confirm that your search needs no further refinement, then print the citations in the format desired.

...use the offline print capability when citations are not needed immediately

You may wish to print a few citations for the end user online and request the remainder in an offline print. Remember that the PRINT SKIP command must be used when citations exceed 300.

...assess the value of a shorter page length, that is, the number of lines that print out between "CONTINUE PRINTING? (YES/NO)" messages

The new algorithm charges for characters created, or prepared for transmission, to the user's terminal. These characters are prepared in "batches" depending on the PAGELENGTH set in the user's PROFILE. If printing is interrupted by the transmission of the BREAK key, those characters prepared, but not received at the terminal, will be included in the charge for characters. In other words, if you issue a PRINT command and issue a BREAK instruction before the PRINT is complete, you will be billed for the characters that would have been received at your terminal had you not hit the BREAK key. Depending on your style of searching (some searchers do not routinely use the BREAK key), you may wish to consider shortening the number of lines (therefore the number of characters) prepared for each "batch." The PAGELENGTH is variable, from 10 to 100 lines.
3. An article on page 7 of last month's Technical Bulletin (August 1983) gave examples for reducing computer work units. To reiterate . . .

... use Pre-explosions when they exist rather than exploding MeSH headings.

A complete list, including the new 1984 Pre-explosions, will be published with the October 1983 issue of this Bulletin. Pre-explosions are also indicated in the Annotated Alphabetic MeSH with a block dot (•) preceding the terms. (Note, however, that Pre-explosions for 1983 were not so indicated in the new edition (1984) of MeSH. You may wish to add dots to the appropriate terms from the list provided with next month's Bulletin.)

REMEMBER: Use GENETICS (PX)
Not EXPLODE GENETICS

... avoid redundant use of explosions or highly posted terms

It is cost-effective to enter an exploded term or a highly posted term in a separate search statement that can be referred to subsequently in combination with other terms.

REMEMBER: Use SS 1: EXP HEART DISEASES
SS 2: EXERTION OR EFFICIENCY OR FATIGUE
SS 3: 1 AND 2

Not SS 1: EXP HEART DISEASES AND EXERTION
SS 2: EXP HEART DISEASES AND EFFICIENCY
SS 3: EXP HEART DISEASES AND FATIGUE
SS 4: 1 OR 2 OR 3

... follow these Stringsearch guidelines whenever possible, i.e.,

Limit retrieval as much as possible, especially with Text Words, before Stringsearching.

Stringsearch for items that can be searched directly (such as HUMAN or ENG (LA)) only with a retrieval set of fewer than 300 citations. Conversely, search directly for these items with a retrieval set of 300 or more citations.

Stringsearch multiple items in a single TS instruction if appropriate, e.g.,

TS (LA) ENG OR FRE OR GER

TS (TI) :VITAMIN A: OR :VITAMIN A: (AB)
And, at times, Stringsearch can be avoided altogether by Text Word searching. For example, when searching for a specific non-MeSH concept that is indexed under a broad heading, it is more efficient to use Text Words than to Stringsearch. To illustrate, desmoid tumors are indexed under FIBROMA. It would be inefficient to Stringsearch for this concept when 'desmoid' can be Text Word searched directly.

**REMEMBER:**

- Use **SS 1:** FIBROMA
- **SS 2:** (TW) DESMOID
- **SS 3:** 1 AND 2

Not **SS 1:** FIBROMA
- **SS 2:** TS:DESMOID:

Use the SHOW COST command in order to obtain an estimate of the charge for the search under the new algorithm. The SHOW COST display will also report the elapsed time, which can be used to compute the charge as if you were being charged using the hourly rates. After doing these computations for a few searches you will have a rough comparison of the effect of the new algorithm. Remember, the purpose of the algorithm is to distribute costs most equitably based on the work done.

*****

NLM ONLINE TRAINING PROGRAM
Patricia E. Clark, MEDLARS Management Section, NLM

The schedule of NLM Online Services Training Classes has been announced for 1984. This year NLM will provide training on both the Initial and Advanced levels in a number of decentralized sites. In particular, a serious effort has been made to decentralize the Initial training classes. To this end, twenty of the thirty scheduled Initial classes will be hosted at sites other than NLM. Every attempt will be made to place training applicants in the class being taught in the location nearest to them. Presently, all of NLM's Initial classes are filled through the end of 1983 and a number of applicants have been placed on a waiting list for attending the classes in early 1984.

This year there will be ten offerings of the Advanced Online Services Training class. Five of these will be taught at NLM, two at UCLA, and one each in Chicago, Denver, and Dallas. We hope these will provide ample opportunity for searchers to learn about the specialized databases and searching capabilities of the MEDLARS system. No Abbreviated Advanced Classes will be taught during 1984 due to the availability of the full-length Advanced classes in several locations.
Both Initial and Advanced classes will include hands-on practice sessions. There are no charges for classes held at NLM or any offsite location.

As a review of NLM policies regarding training, please note the following:

1) Only organizations/individuals with a previously existing NLM access code or those who have applied for an access code are eligible to attend NLM training.

2) Only one person per institution or per access code will be admitted to a particular session.

3) All participants will have full status - no auditors will be permitted.

4) Priority for attending Initial classes will be given to persons applying for new codes or to primary searchers. Backup or secondary searchers will be enrolled as space permits.

5) Module I - (Monday-Wednesday) of the Initial class is a prerequisite for receiving an NLM access code as well as for attending Modules II or III of the Initial training class.

6) It is strongly recommended that searchers attend Module II (Chemical-Toxicological Searching) of the Initial training class if they have plans at some future date to attend an Advanced training class.

7) Attendees at all NLM classes are eligible to receive Medical Library Association (MLA) contact hours towards their recertification. The contact hours awarded are as follows:

   Initial Training
   - Module I = 21 contact hours
   - Modules I and II = 28 contact hours
   - Modules I and III = 25 contact hours
   - Modules I, II, and II = 32 contact hours

   Advanced Training = 35 contact hours

All applications for recertification should be sent to MLA and not to NLM.

As you will notice on the 1984 schedule of classes, the training staff for each class and location is specified. However, as before, all applications for training should be sent directly to the MEDLARS Management Section at NLM. An application form and 1984 schedule follow this article. If additional information or forms are needed, please call MMS.

*****
NLM ONLINE TRAINING APPLICATION

Date: ____________________

TRAINEE: ___________________________ ( ) Name/Title Telephone

ORGANIZATION:

Name: ____________________________

Address: __________________________

City, State, Zip: _____________________

ONLINE STATUS: _______ New Code _______ Existing Code (Code= ______)

AUTHORIZED BY: ___________________________ ( ) Name/Title Telephone Date

+++++++++++++++++++++++++++__________________________________________

TRAINEE INFORMATION

1. Reason for Training: (check one)

_____ Primary Searcher  _____ Backup/Secondary Searcher

_____ Replacement for Primary Searcher  _____ Other (Specify)

2. Online Training Courses Attended (Include dates and sponsoring organizations):

a. ____________________________ __________________________

b. ____________________________ __________________________

c. ____________________________ __________________________

d. ____________________________ __________________________

3. Previous Experience with NLM Online Databases (Specify approximate connect hours used):

_____ MEDLINE  _____ Cancer Databases

_____ TOXLINE  _____ Others (Specify)

4. Experience with Other Online Systems (Specify approximate connect hours used):

_____ Bibliographic Retrieval Service (BRS)

_____ Systems Development Corporation (ORBIT)

_____ Dialog Retrieval Service

_____ Others (Specify)

+++++++++++++++++++++++++++__________________________________________

(over)
TRAINING CLASS INFORMATION

1. Dates Requested:

   1st Choice
   2nd Choice

2. INITIAL CLASS ONLY Modules to be Attended: (check all that apply)

   a. Introduction to MEDLARS/MEDLINE
      Days 1, 2, & 3 (Module I) (required) 

   b. Chemical/Toxicological Databases
      Day 4 (Module II) (optional) 

   c. Cancer Databases
      Day 5 (Module III) (optional) 

***SEE ATTACHED LETTER FOR ADDITIONAL INFORMATION CONCERNING THE COURSE CONTENT.***

* Return form to: *
* MEDLARS Management Section *
* National Library of Medicine *
* 8600 Rockville Pike *
* Bethesda MD 20209 *

NLM USE ONLY

Training Class Assignment: ___________________________ Date

INITIAL ___________________________ Waived ___________________________ Date

   a. Intro to MEDLARS/MEDLINE (Module I) Date

   b. Chem/Tox Databases (Module II) Date

   c. Cancer Databases (Module III) Date

ADVANCED ___________________________ Date

Class Location: ___________________________

cc: RML ________
## NLM ONLINE SERVICES TRAINING
### TENTATIVE
#### 1984 SCHEDULE

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COMPREHENSIVE SEARCHING IN THE TOXLINE FILES
Carolyn G. McHale, Specialized Information Services, NLM

NLM is pleased to announce that the TOXBACK65 file became available online on September 6, 1983. Comprehensive toxicology searching sometimes requires literature review covering relatively long periods of time. This can now be done in TOXLINE for the period 1965 to present.

The advantages of online access to TOXBACK65 are four-fold:

1) PSTGs feedback indicates whether information is available and whether it is necessary to broaden or narrow the search strategy.
2) Review of the retrieved citations provides terminology to revise the search strategy.
3) Online retrieval of information provides searchers with immediate use of the results.
4) Search strategy employing the AND NOT logic can be performed and reviewed for inadvertent omissions of terminology.

The burden of responsibility for obtaining relevant retrieval in searching a free-text database is on the searcher. The terminology used in the search strategy must be developed by the searcher and refined after review of the citations. In a database like MEDLINE that utilizes a controlled vocabulary, the searcher can rely to a greater degree on the indexing for relative completeness. Even here, however, terminology does change throughout the years as reflected by the periodic upgrading of the MeSH vocabulary. TOXLINE does not have a controlled vocabulary, thus it is important to browse and NEIGHBOR in the file in order to refine search strategy. This is particularly true in the older literature where concepts and areas of emphasis may be quite different from what they are today. Thus, with the online availability of TOXBACK65 immediate retrieval, review and - if necessary - reformatting of the search strategy is possible.

Information on the toxicological effect of a chemical may be reported only once in the literature, perhaps in the article announcing the synthesis or first biological screening of the compound. Many times such a single report for even a widely used chemical appears in the earlier years. There is comprehensive chemical indexing throughout the three files which enables the user to retrieve a good deal of information. However, not all chemicals mentioned in the file are indexed with the Chemical Abstracts Service (CAS) Registry Number (RN). Thus, it is necessary to search also by chemical name(s) -- as found in CHEMLINE -- and other textwords appropriate to the backfiles.

In addition to NEIGHBORing in TOXBACK65, SAVESEARCHes can be executed. Search strategies developed either in TOXLINE or in TOXBACK74 can be executed, reviewed, and refined immediately, if necessary.

*****
"WHERE'S THAT ARTICLE?"
Larry Rizzo, Health Science Librarian
Kern Medical Center, Bakersfield, CA

When a library patron requests a computerized search of a subject but the bibliography does not include an article he expects to see listed, the patron may feel that the search is inadequate. In fact, a well-constructed and reasonably precise subject search may fail to retrieve a particular article for a variety of reasons.

It is reassuring to consider first some possibilities that are not under the searcher's control:

1. The requester's memory may be faulty; that is, the article your patron thinks he heard about may not exist or was written but never published.

2. The journal in which the article was published may be a journal that is not indexed for this database, or the journal may be selectively indexed.

3. The article may have been published before or after the years covered by the search or outside the years included in the database.

4. Citations for papers presented at conferences and symposia may not be routinely included in the file being searched.

5. There may be an error in the database.

In addition to the above reasons, it is possible that the searcher made an error such as one of these:

6. The search statements input to the computer may be incorrectly formulated, or may contain a logical error.

7. When searching a very large database, the searcher may have narrowed the search formulation to the point where useful citations were lost. By attempting to exclude a particular topic from the retrieval set, the searcher may unintentionally exclude some pertinent citations; for example, by including "...AND NOT ANIMAL," the search will exclude articles which are tagged with both HUMAN and ANIMAL.

8. If text words were included in the search strategy, the searcher may have failed to include a variant spelling of an important word, for example, HEMOGLOBIN/HAEMOGLOBIN.

9. An important text word may have been omitted, for instance one of the pertinent bili-, chol-, or hepato-words may have been left out of a search involving the liver.

10. A text word may have been misspelled, such as misspelling "pruritis" instead of "PRURITUS". When the database contains the misspelled word as well as the correctly spelled word, the searcher will not be alerted to the error by receiving no postings.

One of these reasons may explain why an expected article did not appear. This list may suggest ways to reformulate the search and retrieve the elusive citation.

*****
The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

**IM ACTA BELGICA. MEDICA PHYSICA**
6N1, 1983,  ACTA MEDICA BELGICA CONTINUES: JOURNAL BELGE DE MEDECINE PHYSIQUE ET REHABILITATION. BRUXELLES BELGIUM A04276000

**IM ACTA CRYSTALLOGRAPHICA. SECTION B, STRUCTURAL SCIENCE**
J9PT1, FEB 1983, MUNKSGAARD CONTINUES: ACTA CRYSTALLOGRAPHICA, SECTION B: STRUCTURAL CRYSTALLOGRAPHY AND CRYSTAL CHEMISTRY. COPENHAGEN DENMARK IN PROCESS A05116000

**IM ADVANCES IN AUDIOLOGY**
1. 1983, KARGER BASEL SWITZERLAND A13100000 ON ORDER 554. 00

**IM ADVANCES IN DEVELOPMENTAL AND BEHAVIORAL PEDIATRICS**
3. 1982, JAI PRESS GREENWICH CT UNITED STATES A13734000 IN PROCESS

**IM ALABAMA MEDICINE**
53N1, JULY 1983, MEDICAL ASSOCIATION OF THE STATE OF ALABAMA CONTINUES: JOURNAL OF THE MEDICAL ASSOCIATION OF THE STATE OF ALABAMA. MONTGOMERY AL UNITED STATES M25085000 IN PROCESS 30. 00

**IM ALABAMA MEDICINE**
53N1, JULY 1983, MEDICAL ASSOCIATION OF THE STATE OF ALABAMA CONTINUES: JOURNAL OF THE MEDICAL ASSOCIATION OF THE STATE OF ALABAMA. MONTGOMERY AL UNITED STATES M25085000 IN PROCESS 30. 00

**IM ANTIMICROBIAL CHEMOTHERAPY SERIES**
3. 1982, RESEARCH STUDIES PRESS CONTINUES: ANTIMICROBIAL CHEMOTHERAPY RESEARCH STUDIES SERIES. CHICHESTER SUSSEX ENGLAND IN PROCESS A55855000

**IM ARCHIVES OF OTO-RHINO-LARYNGOLOGY. SUPPLEMENT**
1. 1983, SPRINGER VERLAG BERLIN GERMANY, WEST IN PROCESS A61615020

**IM BIOSCIENCE RESEARCH REPORTS. RESEARCH NOTES IN ANIMAL BEHAVIOR**
1. 1982, PITMAN ADVANCED PUBLISHING PROGRAM BOSTON UNITED STATES B19635000

**IM BRITISH JOURNAL OF ACCIDENT AND EMERGENCY MEDICINE**
1N1, JUNE 1983, MMI MEDICAL MARKET INFORMATION HERTFORDSHIRE ENGLAND IN PROCESS B34270000

**IM MEDIZIN IN RECHT UND ETHIK**
12. 1983, FERDINAND ENKE VERLAG CONTINUES: MEDIZIN UND RECHT. STUTTGART GERMANY, WEST IN PROCESS M25085000
THE NLM TECHNICAL BULLETIN

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9 How to Read Your New Monthly Statement of Account for MEDLARS Services

13 Errata and Additions to 1984 Annotated Alphabetic MeSH and MeSH Tree Structures

15 Changes to the MeSH Tree Annotations for 1984

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Contents Not Copyrighted • Freely Reproducible

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • National Institutes of Health
National Library of Medicine
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Whenever applicable, the headings of each Technical Note include a reference to the section of the 1982 Online Services Reference Manual that is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

**VETERANS DAY**
- The NLM computer will be up on Friday, November 11, 1983, the day of the Federal Government observance of Veterans Day. Non-prime rates will be in effect all day. The MEDLARS Management Service Desk will not be staffed.

**NEW PRICING ALGORITHM IN EFFECT**
- The new pricing algorithm for domestic users went into effect on October 3, 1983. For information on the algorithm, please see the articles on pages 8 and 9 of this issue, as well as the July, August, and September 1983 issues of the Bulletin. Information on the algorithm may also be obtained online by inputting after any user cue: EXPLAIN CHARGES or EXPLAIN PRICES or EXPLAIN COST.

The price increases for domestic users of RTECS and TDB announced in June also went into effect October 3.

**SHOW COST AND FREE ONLINE TIME**
- Users should be aware that charges for those databases that have free online time are computed for the SHOW COST and SHOW COST TOTAL displays. (Currently four databases have free online time: PDQ, PDQ/DIRECTORY, EXPRESS, and DIRLINE.) However, these charges will not appear on the monthly invoice. The online charges for use of these databases shown in a SHOW COST display should be subtracted from the total cost when determining the cost of a search session or monthly searching costs. OFFPRINTS for these databases continue to be charged at $.18 per page; OFFSEARCHes are $1.00 per OFFSEARCH per file.

**SHOW COST AND CHARGES EXPLAINS**
- The online EXPLAINS for the SHOW COST command and for charges have been revised to reflect information on the new pricing algorithm, which went into effect October 3, 1983. To view these EXPLAINS online, input after any user cue:

1. EXPLAIN SHOW COST
2. EXPLAIN CHARGES or EXPLAIN PRICES or EXPLAIN COST

**TOXLINE/TOXBACKS EXPLAIN**
- Effective October 3, 1983 the alias T74 (for TOXBACK74) and T65 (for TOXBACK65) may be used with the EXPLAIN command to obtain the online EXPLAIN for the TOXLINE/TOXBACK74/TOXBACK65 files (e.g., EXPLAIN T74 or EXPLAIN T65).
YEAR-END PROCESSING

The 1984 MEDLINE and HEALTH files will be available online with January 1984 data on Monday, December 12, 1983. At that time, all searches using MeSH headings must conform to the Medical Subject Headings, 1984. Changes to the MeSH vocabulary for 1984 are reflected in the various lists contained in the preface of the Medical Subject Headings - Annotated Alphabetic List, 1984. This publication has been available from the National Technical Information Service since the beginning of September; order information was given in the August 1983 Technical Bulletin and in the online NEWS.

When using these lists please note that:

1) the three lists of new headings ("New Medical Subject Headings with Previous Indexing," "New Medical Subject Headings with Scope Notes," and "New Medical Subject Headings by Subcategory") contain only those headings that were not in the 1983 MeSH. They do not include new forms of existing headings; new forms of existing headings appear on the list titled, "New Medical Subject Headings Replacing Deleted Headings."

2) deleted headings on the two lists, "New Medical Subject Headings Replacing Deleted Headings" and "Deleted Medical Subject Headings with Replaced-By Headings," followed by (en) or (ep) may still be used as search terms. Those few terms not followed by (en) or (ep) may not be used as search terms and must be deleted from all stored and/or saved searches. Terms followed by (en) or (ep) may remain in any stored and/or saved searches.

3) there are two lists of "Topical Subheadings by Category": since 1975 and 1966-74. Before 1975, subheadings were allowed for entire categories, e.g., the subheading 'anatomy & histology' could be used with all Category A and Category B classified MeSH Headings. Beginning in 1975, NLM began the practice of restricting some subheadings to use with MeSH headings classified in specific subcategories within a category. For example, the subheading 'anatomy & histology' is restricted within Categories A and B to use only with those MeSH headings in Subcategories A1-A10, A13-A16, B1-B2, and B5-B6. Additionally, since 1975, some subheadings have been permitted or restricted from use with entire categories of MeSH headings.

4) the list of tree number changes is included as part of the Tree Structures publication. Although it is recommended that the main heading terms themselves be used in the EXPLODE instruction whenever possible, there are circumstances that require the use of the tree number instead, e.g., when a term is in more than one tree, with different terms in each tree. When this occurs, the term will have more than one tree number. If the user wishes to search the term EXPLODED only in a specific tree, the user should EXPLODE
using the desired tree number. This list may be used to validate tree numbers used in previous searches, especially stored or saved searches.

5) the Pre-explosion list is incomplete. Please see the Technical Note in this issue titled, "Available Pre-explosions." Appendix A to this Bulletin contains the complete list of Pre-explosions.

All STORESEARCHes stored for use with the SDILINE and HEALTH files in the Automatic SDI Program should be reviewed. Those searches requiring revision due to 1984 vocabulary changes must be deleted and restored by December 9, 1983. (The January SDILINE and HEALTH SDIs will be processed beginning on or about December 12, 1983.) To facilitate review of stored searches, searchers will be able to execute their STORESEARCHes online between November 21, 1983 and December 9, 1983; the December 1983 SDILINE will contain 1984 MeSH terms at this time so searchers can run their STORESEARCHes against this revised SDILINE to check correct operation of stored strategies against the new vocabulary. Only SDILINE will have 1984 vocabulary terms during this time period.

In summary, the 1983 year-end processing schedule is as follows:

- **November 7, 1983** - December 1983 MEDLINE/SDILINE available online.

- **November 21, 1983** (through December 9, 1983) - December 1983 SDILINE with 1984 terms available online with STORESEARCHes executable online.

- **December 10, 1983** (Saturday) - The computer will be unavailable for searching so that the 1984 MEDLINE/HEALTH databases and MEDLINE backfiles may be installed.


- **December 12, 1983** - HEALTH and SDILINE Automatic SDIs processed against January 1984 data on or about this date.

1984 MESH VOCABULARY AND THE DATABASES - Only the MEDLINE, SDILINE, and HEALTH files will be available on December 12, 1983 with 1984 MeSH terms. Other files using MeSH vocabulary (i.e., CANCERLIT, EXPRESS, CATLINE, and AVLINO) will be maintained for 1984 vocabulary at later dates. Please watch future issues of the Bulletin and the online NEWS for announcements. Searches stored for the Automatic SDI program for CATLINE/AVLINE/CANCERLIT should not be revised for 1984 vocabulary at this time.
Effective December 12, 1983, a new MEDLINE backfile will be added to MEDLARS called MED80. This file will contain primarily citations with either 1980 or 1981 as the year of publication. The MEDLINE backfiles for 1984 and their aliases are:

- MED80  M80  BACK80  B80
- MED77  M77  BACK77  B77
- MED75  M75  BACK75  B75
- MED71  M71  BACK71  B71
- MED66  M66  BACK66  B66

Also, as of this date, MEDLINE will contain primarily citations with the year of publication of 1982 to the present.

### Holiday Schedule 1984

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*Non-prime rates will be in effect all day.

### Authors Limited in MEDLINE

- Beginning with the January 1984 update to MEDLINE (available December 12, 1983) a maximum of ten authors will be entered into MEDLINE for any given citation. Although some articles may be "authored" by more than ten writers, the citation will contain the names of only the first ten, followed by 'et al' to indicate that there are additional authors.

### Abstracts Truncated in MEDLINE

- The current policy for inclusion of abstracts in MEDLINE stipulates that only author-generated abstracts of 250 words or fewer in length will be included in the database; abstracts of more than 250 words generally have been excluded from MEDLINE. This limit could be expanded, however, to 400 words for those author abstracts from either journal articles 10 pages or more in length or from articles in the core journals identified by the National Cancer Institute for inclusion in the CANCEREXPRESS database.
Beginning with the January 1984 update to the database (available December 12, 1983), this policy will be changed. Author abstracts exceeding the 250- or the 400-word limit will be included in MEDLINE in truncated form. They will be truncated at the end of the sentence closest to the 250- or 400-word limit. Abstracts truncated at 250 words will have the message, "ABSTRACT TRUNCATED AT 250 WORDS," appearing in parentheses at the end of the abstract; abstracts truncated at 400 words will have the message, "ABSTRACT TRUNCATED AT 400 WORDS," appearing in parentheses at the end of the abstract.

This change in policy concerning the inclusion of abstracts in MEDLINE will potentially increase the coverage of abstracts in MEDLINE from the current average of 47% to approximately 65% of the total citations in the database.

NOTE: This policy also affects abstracts on citations that originated in the MEDLINE database, but have been introduced by NLM into the CANCEREXPRESS, CANCERLIT, HEALTH, and TOXLINE databases.

Appendix A is a list of AVAILABLE PRE-EXPLOSIONS. Although the list of Pre-explosions is included on pages LXXXV-LXXXVI of the Medical Subject Headings - Annotated Alphabetic List, 1984, searchers should be aware that:

1) the Pre-explosions added to the system in 1983 were erroneously excluded from this list; 

2) the Pre-explosions added in 1984 are included on this list although the introduction to the list indicates that they are not;

3) the 1984 Pre-explosion listed as 'PSYCHOLOGIC PROCESSES AND PRINCIPLES' is in error and should be changed to 'PSYCHOLOGIC PROCESSES PRINCIPLES';

4) in the 1984 MeSH, Pre-explosions are indicated next to the heading within the MeSH by a black dot (●). However, the dot was inadvertently omitted before those headings that were pre-explosed for the first time in 1983; searchers are advised to add the black dot to these headings in MeSH.

The attached list contains all the available Pre-explosions with those added in 1983 and 1984 indicated by a date to the left of the Pre-explosion name so they can be easily identified. The list is printed on one side so it can be removed from the Bulletin and posted near the searcher's terminal.

Appendix B is the DATABASE UPDATE SCHEDULE FOR 1984. This list includes the schedule for updating the following databases: MEDLINE/SDILINE, HEALTH, POPLINE, CANCERLIT, and TOXLINE. The list is printed on one side so that it can be removed from the Bulletin and posted near the searcher's terminal.
A new version of the list of available telephone numbers used to access the NLM computer is enclosed as Appendix C. Please read the introductory material for an explanation of the changes to this list.

*****

RATES FOR NEW MEDLARS: PRICING ALGORITHM FOR ONLINE SERVICES
Lois Ann Colaianni, Acting Associate Director, Library Operations
David L. Kenton, Staff Assistant, Office of Computer & Communications Systems

The new pricing algorithm*, which became effective October 3, 1983, is based on three primary components: connect charges, work performed by the NLM computer, and characters created for transmission to the user's terminal. An article on page 9 of this issue explains the format of the new statement of account. Listed below are the pricing components of the new charging algorithm for NLM online services for domestic users. As discussed in previous Bulletin articles, the algorithm was introduced to charge users more equitably without increasing revenues. Therefore, an hour of average use on MEDLINE should continue to cost approximately $22 during prime time and $15 during non-prime time.

NLM MEDLARS ONLINE PRICING ALGORITHM

<table>
<thead>
<tr>
<th>FILES</th>
<th>CONNECT CHARGE (PER HOUR)</th>
<th>SEARCH STATEMENT CHARGE</th>
<th>CITATION CHARGE</th>
<th>INTERACTION CHARGE (CARRIAGE RETURNS)</th>
<th>COMPUTER RESOURCES CHARGE (DISK ACCESSES) (PER 100)</th>
<th>CHARACTER CHARGE (PER 1,000)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NON-PRIME</td>
<td>PRIME</td>
<td>NON-PRIME</td>
<td>PRIME</td>
<td>NON-PRIME</td>
<td>PRIME</td>
</tr>
<tr>
<td>MEDLINE &amp;</td>
<td>$ 4.50</td>
<td>$ 7.25</td>
<td>.01</td>
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<td>.06</td>
</tr>
<tr>
<td>BACKFILES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOXLINE &amp;</td>
<td>30.87*</td>
<td>33.62*</td>
<td>.01</td>
<td>.06*</td>
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<td>BACKFILES</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEMLINE</td>
<td>34.50*</td>
<td>37.25*</td>
<td>.01</td>
<td>.07*</td>
<td>.01</td>
<td>.06</td>
</tr>
<tr>
<td>RTECS</td>
<td>39.00</td>
<td>42.75</td>
<td>.01</td>
<td>.01</td>
<td>.01</td>
<td>.06</td>
</tr>
<tr>
<td>TDB</td>
<td>56.50</td>
<td>60.25</td>
<td>.01</td>
<td>.01</td>
<td>.01</td>
<td>.06</td>
</tr>
<tr>
<td>ALL OTHER</td>
<td>4.50</td>
<td>7.25</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td><strong>MEDLEARN</strong></td>
<td>15.00</td>
<td>22.00</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

*Includes royalty charges of $26.37 per connect charge and $0.05 per citation for TOXLINE and its backfiles and $30.00 per connect charge and $0.06 per citation for CHEMLINE.

This pricing algorithm is for domestic billed users only. The $15.00 per month minimum billing per code remains in effect. Educational usage will continue to be charged at non-prime rates only.

*Please see articles in the July, August, and September issues of this publication for both descriptive and searching information concerning the new pricing algorithm.
Listed below are the charges for offline processing as well as the monthly minimum. These rates have not been changed except for the increases to TDB and RTECS effective October 3, 1983.

NLM MEDLARS OFFLINE PROCESSING RATES

<table>
<thead>
<tr>
<th>Service</th>
<th>Charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCDL1NL AND OTHER DATABASES</td>
<td>$0.18</td>
</tr>
<tr>
<td>TOXLINE AND ITS BACKFILES</td>
<td>$0.41 (includes $0.23 royalty charge)</td>
</tr>
<tr>
<td>CHEMLINE</td>
<td>$0.41 (includes $0.23 royalty charge)</td>
</tr>
<tr>
<td>TDB</td>
<td>$0.60</td>
</tr>
<tr>
<td>RTECS</td>
<td>$0.41</td>
</tr>
<tr>
<td>OFFSEARCHES</td>
<td></td>
</tr>
<tr>
<td>ALL DATABASES</td>
<td>$1.00 PER SEARCH PER FILE</td>
</tr>
<tr>
<td>AUTOMATIC SDI SEARCHES</td>
<td></td>
</tr>
<tr>
<td>SDILINE/HEALTH/CATLINE/AVLINETOPLINE</td>
<td>$1.00 PER SEARCH</td>
</tr>
<tr>
<td>TOXLINE</td>
<td>$2.00 PER SEARCH (includes $1.00 royalty charge)</td>
</tr>
</tbody>
</table>

It is possible that there may be adjustments in these rates in the future. Watch for articles in the NLM Technical Bulletin concerning any changes and for further information concerning the new pricing algorithm. Please call the MEDLARS Management Service Desk at 301/496-6193 if you wish to discuss the pricing algorithm or if you have questions.

*****

HOW TO READ YOUR NEW MONTHLY STATEMENT OF ACCOUNT FOR MEDLARS SERVICES
Carolyn B. Tilley, Head, MEDLARS Management Section, NLM

This article is intended to assist domestic users in understanding the new format of the NTIS monthly invoice or statement of account. Invoices or statements of account (for those with deposit accounts with NTIS) issued before the new pricing algorithm was activated in October included detail sheets that contained quantities and amounts for prime and non-prime connect hours for those databases accessed, as well as pages, offsearches, and Automatic SDI searches executed. The new detail sheets will continue to contain the same information, but in more detail. Please share a copy of this article and discuss the new detail sheets with your accounting personnel before the October invoice arrives.
Opening your bill, you will notice a summary page listing the total charges for NLM MEDLARS services. A sample summary page for a user who receives a monthly bill, as opposed to having a deposit account, is shown below. No changes have been made to the summary page.

If you have a deposit account, an indication is made on the summary page that it is "not an invoice." Further, a statement is made that "NLM charges have been posted against your NTIS deposit account" along with your deposit account number. In addition, if there is a purchase order on file with NTIS, that number is included on the summary sheet.
After the summary, there are pages that list quantities, rates, and charges for only those databases accessed during the billing month. There will now be nine categories of online information shown in addition to the standard three categories of "offline" information. Information for two databases will fit on each sheet; subtotals by database have been added. Shown below is a sample page for two databases. The figures are for illustrative purposes only.

Sometimes, especially with SDILINE, Automatic SDI searches for two different update months will be processed in the same calendar month and will be included.
After the summary and the detail pages, there is a page that shows the total quantities and amounts by the nine online categories of the new algorithm as well as the standard "offline" information. Rates are not included on this total sheet as some of the NLM databases are priced differently or include royalties.

<table>
<thead>
<tr>
<th>DOCUMENT NUMBER/SERVICE</th>
<th>DATE SHIPPED</th>
<th>RATE</th>
<th>QUANTITY</th>
<th>AMOUNT</th>
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<td>1.75</td>
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<td></td>
<td>1.75</td>
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<td>$71.78</td>
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<table>
<thead>
<tr>
<th>PURCHASE ORDER NUMBER</th>
<th>NTIS STATEMENT NUMBER</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>6 3319XYZ01</td>
</tr>
</tbody>
</table>

IMPORTANT POINTS

* The summary page is unchanged.

* The detail pages now have information for the nine categories of the new pricing algorithm. Information for two databases will fit on each sheet. Information is presented only for those databases accessed in the billing month. Subtotals by database have been added.

* The total sheet will not include rates because various databases are priced differently or include royalties.

* The monthly minimum of $15.00 per ID code is unchanged.

* Please call the MEDLARS Management Service Desk at 301/496-6193 if you wish to discuss the format of the statements of account or have any questions.
ERRATA AND ADDITIONS TO 1984 ANNOTATED ALPHABETIC MESH
AND MESH TREE STRUCTURES
Robin R. Chivers, M.B., B.S., MeSH Section, NLM

PRE-EXPLOSIONS

Annotated Alphabetic MeSH p. LXXXV, LXXXVI
Change Fifty-three to Fifty-nine

Delete sentence starting "In the event that"

In the sentence starting "The pre-explosions may be used ...," replace "full MeSH heading" with "MeSH heading in the forms listed below"

Change tree number for ENZYMES to D8.586

Change PSYCHOLOGIC PROCESSES AND PRINCIPLES to PSYCHOLOGIC PROCESSES PRINCIPLES

Add black dots in alphabetic list to the six 1983 pre-explosions

Tree Structures
Add black dots in trees to the six 1983 pre-explosions

p. 220 Remove black dot from D8
p. 222 Add black dot to D8.586

ANNOTATED ALPHABETIC MESH

p. XXII Change N-FORMYL-METHIONYL-LEUCYL-PHENYLAL to N-FORMYL-METHIONYL-LEUCYL-PHENYLALANINE

p. XXXVI Change NUCLEOSIDE DIPHOSPHATE SUGARS to GUANOSINE DIPHOSPHATE SUGARS

p. LX Add /toxicity to D25-26 qualifiers

p. LXIX Add new form subheading for catalogers:
- examination questions - slides
  Under topical headings, used loosely for material presented as questions and answers as well as those specifically designated "examination questions," issued in slide format; Radiography - examination questions - slides; Anatomy - examination questions - slides
p. LXXVI Add Barbados to geographic subheadings for catalogers

p. 199 Under DIABETES MELLITUS, INSULIN-DEPENDENT,
     Add ,NON-INSULIN-DEPENDENT to DIABETES MELLITUS in annotation

p. 287 Change N-FORMYL-METHIONYL-LEUCYL-PHENYL
     to N-FORMYL-METHIONYL-LEUCYL-PHENYLALANINE

p. 379 Under INSULIN,
     Add S to SYSTEM in annotation

p. 407 Under LECTINS,
     Add "; TN 244: indexing instructions" at end of annotation

p. II Change ALZHEIMMER'S to ALZHEIMER'S

p. V Under F FACTOR,
     Change G5.255.500.300 to G5.225.500.300

     Under HEART SEPTAL DEFECTS, VENTRICULAR,
     Change C16.280.400.560.540 to C14.280.400.560.540

p. 249 Change N-FORMYL-METHIONYL-LEUCYL-PHE
     to N-FORMYL-METHIONYL-LEUCYL-PHENYLALANINE

p. 251 Change N-FORMYL-METHIONYL-LEUCYL-PHENYL
     to N-FORMYL-METHIONYL-LEUCYL-PHENYLALANINE

p. 302 Change N-FORMYL-METHIONYL-LEUCYL-PHENY
     to N-FORMYL-METHIONYL-LEUCYL-PHENYLALANINE

p. 302 Change N-FORMYL-METHIONYL-LEUCYL-PHENYL
     to N-FORMYL-METHIONYL-LEUCYL-PHENYLALANINE

*****
MeSH Tree Annotations is a companion tool to Medical Subject Headings, Annotated Alphabetic List (familiarly called the "Annotated MeSH"). As such, the Tree Annotations serves a twofold purpose: first, to give a general statement on the approach an indexer or searcher should pursue for a given tree; and second, to provide information on special features within each tree.

A 1984 edition of MeSH Tree Annotations will NOT be issued. Therefore, the following changes are provided for those who own the 1983 edition of this tool. The 1983 edition is still available for purchase through:

National Technical Information Service (NTIS)
5285 Port Royal Road
Springfield, VA 22161
Order No. PB82-208653; Price $13.00

Those of you making the changes may wish to make a photocopy from this Technical Bulletin from which to "cut-and-paste." The changed sections have been sized to fit into the proper positions.

Page 19, B3 - Bacteria

2. Avoid BACTERIA; BACTERIA, AEROBIC; BACTERIA, ANAEROBIC; GRAM-NEGATIVE BACTERIA and GRAM-POSITIVE BACTERIA as too general; prefer specifics.

Page 21, B5 - Lower Plants

7. In fungus biochemistry, RNA, FUNGAL; DNA, FUNGAL; FUNGAL PROTEINS are common coordinates with B5 terms. In genetics GENES, FUNGAL (G5) is available.

Page 26, C4 - Neoplasms

10. NEOPLASMS, EXPERIMENTAL is for general articles on experimental cancer where the histological type or organ site is irrelevant. It is then usually IM. See 4 above.

Page 38, C14 - Cardiovascular Diseases

In item 10, add the word "also" so that the sentence reads, "Congenital cardiovascular defects are also in C16: HEART DEFECTS, CONGENITAL."

Page 64, B12 - Proteins, etc.

In item 10, change "Table 224-1" to TECHNICAL NOTES 227 and 228. Delete item 12.
Page 77, D24 - Immunologic Factors

11. See TECHNICAL NOTE 230 for the indexing of BLOOD GROUPS.

Page 82, E3 - Anesthetic Procedures

5. HYPOTHERMIA, INDUCED is achieved through physical (cold) or chemical (drugs) means.

Page 98, G4 - Biologic Phenomena

8. For BLOOD GROUPS, see TECHNICAL NOTE 230.

Page 114, K - The Humanities

6. Do not confuse MEDICINE, HINDU with medicine in India; the latter could also be MEDICINE, ORIENTAL, TRADITIONAL + INDIA or MEDICINE + INDIA.

7. Do not confuse MEDICINE, CHINESE, TRADITIONAL with medicine in China (= MEDICINE + CHINA). See TECHNICAL NOTE 125.

Page 119, N3 - Health Care

In item 7, substitute this as the second column:

NIOSH
NCHCT
NCHS
NIH

*****
NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - SEPTEMBER 1983
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

IM ACTA MORPHOLOGICA HUNGARICA
31, 1983—
AKADEMIAI KIADO
SPINE TITLE: ACTA MORPHOLOGICA. ISSUED BY THE HUNGARIAN ACADEMY OF SCIENCES. CONTINUES: ACTA MORPHOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE.
BUDAPEST HUNGARY
W1 AC8643
A07996000

IM GIORNALE DI STOMATOLOGIA E DI ORTOPEDONIA
1, 1982—
POLIAmbulatorio OODONTOIATRICO RIUNITO SRI ORDERZO ITALY
POLIAmbulatorio OODONTOIATRICO RIUNITO SRI, P.ZA CASTELLO, 9-31046 ORDERZO, ITALY
ON ORDER
G09130000

IM ACTA PHYSIOLOGICA HUNGARICA
61N1-2, 1983—
AKADEMIAI KIADO
CONTINUES: ACTA PHYSIOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE.
BUDAPEST HUNGARY
W1 AC9226
A08390000

IM I YAO KUNG YEH. PHARMACEUTICAL INDUSTRY
1, 1983—
SHANGHAI INSTITUTE OF PHARMACEUTICAL INDUSTRY
PEKING CHINA
SHANGHAI INSTITUTE OF PHARMACEUTICAL INDUSTRY, 1320 WEST BEIJING LU, SHANGHAI, PEOPLES REPUBLIC OF CHINA
IN PROCESS
I00357500

IM ASIAN PACIFIC JOURNAL OF ALLERGY AND IMMUNOLOGY
1N, JUN 1983—
BANGKOK MEDICAL PUBLISHERS
LAUNCHED BY THE ALLERGY AND IMMUNOLOGY SOCIETY OF THAILAND.
BANGKOK THAILAND
BANGKOK MEDICAL PUBLISHERS, SUKHUMVIT ROAD, BANGKOK, THAILAND
IN PROCESS
A69557000
$50.00

IM INTERNATIONAL SYMPOSIUM ON DOUBLE-STRANDED RNA VIRUSES
1ST, 1982—
ELSEVIER BIOMEDICAL
NEW YORK UNITED STATES
ELSEVIER SCIENCE PUBLISHING CO., INC., 52 VANDERBILT AVE., NEW YORK NY 10017
IN PROCESS
I32565000

IM BEITRAGE ZUR KLINISCHEN NEUROLOGIE UND PSYCHIATRIE
50, 1982—
VEB GEORG THIEME LEIPZIG
CONTINUES: SAMMLUNG ZWANGLOSER ABHANDLUNGEN AUS DEM GebIETE DER PSYCHIATRIE UND NEUROLOGIE.
LEIPZIG GERMANY, EAST
IN PROCESS
B03436000

IM JOURNAL OF REHABILITATION R AND D
20N1, JUL 1983—
U.S. VETERANS ADMINISTRATION
CALLED ALSO: JOURNAL OF REHABILITATION RESEARCH AND DEVELOPMENT. CONTINUES: BULLETIN OF PROSTHETICS RESEARCH. CALLED ALSO BPR 10-38-
WASHINGTON UNITED STATES
VETERANS ADMINISTRATION, DEPARTMENT OF MEDICINE AND SURGERY, WASHINGTON DC 20420
W1 J0867R
J36950000
NLM TECHNICAL BULLETIN - OCT 83

IN JOURNAL OF THE ROYAL SOCIETY OF MEDICINE. SUPPLEMENT 1, 1982-- ROYAL SOCIETY OF MEDICINE LONDON ENGLAND PUBLICATIONS DEPT, ROYAL SOCIETY OF MEDICINE, CHANDOS HOUSE, 2 QUEEN ANNE ST., LONDON W1M OBR ENGLAND ON ORDER J37620020

RADIOTherapy AND ONCOLOGY 1, AUG 1983-- ELSEVIER SCIENCE JOURNAL OF THE EUROPEAN SOCIETY FOR THERAPEUTIC RADIOLOGY AND ONCOLOGY. AMSTERDAM NETHERLANDS ELSEVIER SCIENCE B.V., JOURNALS DEPARTMENT, P.O. BOX 211, 1000 AE AMSTERDAM, THE NETHERLANDS ON ORDER R01835000

NORVEGICA PHARMACEUTICA ACTA 45N1, 1983-- NORSK FARMACEUTISK SELSKAP CONTINUES: MEDDELELSER FRA NORSK FARMACEUTISK SELSKAP. OSLO NORWAY NORSK FARMACEUTISK SELSKAP, SORLIGATEN 8, OSLO 5, NORWAY IN PROCESS N30423000

REVIEWS OF CLINICAL INFECTIOUS DISEASES 1982-- GRUNE AND STRATTON NEW YORK UNITED STATES GRUNE AND STRATTON INC. 111 FIFTH AVE, NEW YORK NY 10003 IN PROCESS R29017000

OPHTHALMOLOGY MANAGEMENT 1, APR 1983-- ADVISORY ENTERPRISES ANNUAL INDEX PUBLISHED IN THE DECEMBER ISSUE. WHITE PLAINS NY UNITED STATES ADVISORY ENTERPRISES INC, 1 HOLLAND AVE, WHITE PLAINS NY 10603 ON ORDER O008115000

WORLD CATALOGUE OF VETERINARY FILMS/VIDEO TAPES AND FILMS/VIDEO TAPES OF VETERINARY INTEREST 1983-- WORLD VETERINARY ASSOCIATION CONTINUES: WORLD CATALOGUE OF VETERINARY FILMS AND FILMS OF VETERINARY INTEREST. GENEVA SWITZERLAND WORLD VETERINARY ASSOCIATION, 70 RTE, DUPONT BUTIN, 1213 PETIT-LANCY, SWITZERLAND IN PROCESS W08670000

*****

--PLEASE TYPE NEWS TO SEE MOST RECENT NEWS ITEMS ONLINE--
Pre-explosions (EXCEPT those added for 1983) are indicated in both the Medical Subject Headings - Annotated Alphabetic List, 1984 and the Medical Subject Headings Tree Structures, 1984 with a black dot.

<table>
<thead>
<tr>
<th>Pre-explosion Name (PX)</th>
<th>Tree No.</th>
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<td>ANTIBIOTICS</td>
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<tr>
<td>BACTERIA</td>
<td>B3</td>
</tr>
<tr>
<td>BACTERIAL INFECTIONS</td>
<td>C1.252</td>
</tr>
<tr>
<td>BEHAVIOR</td>
<td>F1.145</td>
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<tr>
<td>BEHAVIOR AND BEHAVIOR MECHANISMS</td>
<td>F1</td>
</tr>
<tr>
<td>(84)BEHAVIORAL AND MENTAL DISORDERS</td>
<td>F3</td>
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<tr>
<td>(83)BIOCHEM PHENOM METAB</td>
<td>G6</td>
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<td>(84)BLOOD PROTEINS</td>
<td>D12.776.124</td>
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<tr>
<td>BRAIN</td>
<td>A8.186.211</td>
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<td>CARBOHYDRATES</td>
<td>D9.203</td>
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<tr>
<td>(84)CARDIOVASCULAR AGENTS</td>
<td>D18</td>
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<tr>
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<td>C14</td>
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<tr>
<td>(83)CARDIOVASCULAR SYSTEM</td>
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<td>A11</td>
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<tr>
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<td>(83)CHEMISTRY, ANALYTICAL</td>
<td>E5.196</td>
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<tr>
<td>(84)CIRCULATORY, RESPIRATORY PHYSIOLOGY</td>
<td>G9</td>
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Remember to disguise the AND in names of Pre-explosions just as you do for regular searching on MeSH headings with embedded ANDs.
THE NLM
TECHNICAL
BULLETIN

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Enclosures: NLM Automatic SDI Service Request Form
Map of Online Centers in the U.S., September, 1983

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TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note include a reference to the section of the 1982 Online Services Reference Manual that is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

NLM COMPUTER UNAVAILABLE SATURDAY DECEMBER 10, 1983

REMINDER: The NLM computer will be unavailable on Saturday, December 10, 1983, in order to install the 1984 MEDLINE/BACKFILES and HEALTH databases. Please see the Technical Note in the October 1983 Technical Bulletin, p. 4, titled "YEAR-END PROCESSING," for additional information.

CATLINE/AVLINE UPDATE SCHEDULE

Effective December 1, 1983, NLM will change the weekly updates of the CATLINE and AVLINE databases to Thursday mornings between 4:00 AM and 6:30 AM Eastern Time. (Previously these databases had been updated Thursday mornings between 6:00 AM and 8:30 AM Eastern Time.) These two databases will be unavailable to online users during this period each Thursday morning. All other databases will be available as scheduled.

DECEMBER HOLIDAY SCHEDULE

The NLM computer will be down all day on the following dates in observance of the Christmas and New Year's holidays:

December 24, 1983 (Saturday)
December 26, 1983 (Monday)
December 31, 1983 (Saturday)
January 2, 1984 (Monday)

DIRLINE CHARGES

Beginning November 1, 1983, DIRLINE online connect charges, computer work, and characters will be billed at MEDLINE rates. OFFSEARCHes continue to be charged at $1.00 per search; OFFPRINT pages are $.18 per page.

CANCEREXPRESS NON-BILLED ONLINE TIME

At the request of the National Cancer Institute, non-billed online access for the CANCEREXPRESS database will be extended through December 31, 1983. OFFSEARCHes will continue to be charged at $1.00 per search; OFFPRINT pages are $.18 each.

CHARGES EXPLAIN

Effective November 21, 1983, the online EXPLAIN for charges was revised to include the detailed chart for the pricing components (connect time, work performed by the NLM computer, and characters created for transmission to the user's terminal) of the new pricing algorithm. To view this revised EXPLAIN, input after any user cue one of the following:

EXPLAIN CHARGES or EXPLAIN PRICES
or EXPLAIN COST or EXPLAIN ALGORITHM
After December 12, 1983, the date when the 1984 MEDLINE databases become available, the Backfile Postings field of the MESH VOCABULARY FILE will be changed to reflect the new configuration of the MEDLINE backfiles. The five data elements will be:

- **M80** (for MED80 backfile)
- **M77** (for MED77 backfile)
- **M75** (for MED75 backfile)
- **M71** (for MED71 backfile)
- **M66** (for MED66 backfile)

The numeric values in each of these fields will reflect the postings for the term in each of the backfiles. Each backfile has two entries: the total postings for the term in a particular backfile, and the Index Medicus (IM) or "main point" postings (indicated by an asterisk (*)).

For example, one descriptor term in the MESH VOCABULARY FILE may have entries similar to the following:

- **M80** - 122
- **M80** - *100
- **M77** - 179
- **M77** - *120
- **M75** - 166
- **M75** - *131
- **M71** - 195
- **M71** - *155
- **M66** - 183
- **M66** - *101

Watch the online NEWS for the date on which these changes will be implemented.

Effective December 12, 1983, OFFSEARCH and OFFLINE printouts from the MEDLINE backfiles will have the following names printed in the line, "THIS SEARCH WAS PERFORMED ON THE DATABASE NAME FILE."

- **BACK80** for the backfile MED80
- **BACK77** for the backfile MED77
- **BACK75** for the backfile MED75
- **BACK71** for the backfile MED71
- **BACK66** for the backfile MED66
SAVESEARCH AND THE RESTACK COMMAND (Manual 5.3)

Use of the RESTACK (alias KEEP) command is not permitted either within a SAVESEARCH command or prior to the issuance of a SAVE command. If a searcher attempts to RESTACK while storing a SAVESEARCH, the following message will be received:

RESTACKING NOT PERMITTED WHILE STORING SEARCHES

Should a searcher enter the command SAVE after issuing a RESTACK command earlier in the database search session, the following message will be received:

CANNOT SAVE SEARCH - REFERS TO RESTACKED SEARCH STATEMENT

However, the other erasure commands, ERASEALL and ERASEBACK, may be used with the SAVE and SAVESEARCH commands.

SIGNED INITIAL TRAINING CLASS

- The Initial Online Services Training class to be held at NLM, June 11-15, 1984, will be signed for the hearing-impaired. Any searcher who could benefit from this service should send a training application to MEDLARS Management Section by March 15 requesting this particular class. Please indicate on the form that you are hearing-impaired. For additional information, please contact MMS.

MEDLARS INDEXING TOOLS

- The following updated MEDLARS indexing tools are now available for purchase from the National Technical Information Service (NTIS):

1) MEDLARS Indexing Manual, Part II, 1984
   Order number = PB84-104280
   Price = $16.00 ($32.00 foreign; $4.50 microfiche)

2) Technical Notes: MEDLARS Indexing Instructions (1984)
   Order number = PB84-104298
   Price = $10.00 ($20.00 foreign; $4.50 microfiche)

The address of NTIS is:
National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, Virginia 22161
703/487-4650 (for phone orders with deposit account or credit card only)

---PLEASE TYPE NEWS TO SEE THE MOST RECENT NEWS ITEMS ONLINE---
CANCELLATION OF OFFLINE PRINTS NOW POSSIBLE
Patricia E. Healy, MEDLARS Management Section, NLM

Beginning November 21, 1983, it will become possible, for the first time, to request cancellation of an OFFLINE PRINT (previously only OFFSEARCHes could be cancelled). In order to make cancellation of OFFLINE PRINTS possible, a TASKNAME will now automatically print out following the issuance of a PRINT OFFLINE command. For example:

SS 3 /C?
USER:  
PRT OFFLINE

PROG:  
TASKNAME = P4090603

Each TASKNAME for an OFFLINE PRINT begins with the letter 'P', differentiating it from an OFFSEARCH TASKNAME, which begins with the letter 'S'.

To request cancellation of an OFFLINE PRINT, users should call the MEDLARS Management Service Desk on the same day the print command was issued; OFFLINE PRINTS cannot be cancelled after the day of input. NLM does not recommend requesting an OFFLINE PRINT cancellation via the COMMENT command. Users must be able to provide Service Desk personnel with the TASKNAME for the OFFLINE PRINT; prints cannot be cancelled without the TASKNAME. You will be asked for your name and phone number when you request a print cancellation so you may be contacted should it not be possible to cancel the OFFLINE PRINT. NLM cannot guarantee cancellation of any OFFPRINT, although generally cancellation is possible. OFFLINE PRINTS will only be processed if the message:

OFF-LINE-PRINT COMPLETED.

is received following a 'Y' answer to the system prompt:

OK? (Y/N/C/ADDRESS)
USER:  
Y

PROG:  
OFF-LINE-PRINT COMPLETED.

If the 'C' response is entered, the OFFLINE PRINT will automatically be cancelled and the user will receive the message:

OFF-LINE-PRINT COMMAND HAS BEEN CANCELLED.

If the 'N' response is entered, the print is not cancelled; rather, a new TASKNAME will be assigned to the OFFLINE PRINT command already input and the user will be re-prompted for the mailing information, the requester's name, and the search title. The system prompt 'OK? (Y/N/C/ADDRESS)' will again be issued. If the 'Y' response is input to this question at this point, the message 'OFF-LINE-PRINT COMPLETED' will be received. If you need to cancel the OFFLINE PRINT after this message is received, the latest TASKNAME for the OFFLINE PRINT should be provided to MMS or the print will not be successfully cancelled.
Users should keep a record of TASKNAMEs provided with OFFLINE PRINTS and OFFSEARCHes until these respective prints are received. If problems develop with the prints, the TASKNAMEs are the most useful and accurate way of tracing the print or search output. TASKNAMEs appear in the upper right-hand corner of all OFFPRINTS, making it possible for the user to verify that a particular OFFSEARCH or OFFLINE PRINT has been received.

*****

THE AUTOMATIC SDI SERVICE: SOME POINTS TO KEEP IN MIND
P. E. Pothier, MEDLARS Management Section, NLM

SDI stands for Selective Dissemination of Information; it is a current awareness mechanism, that is, a method for keeping health professionals current on the latest research in a given subject area. The relationship between SDI and SDILINE is purely historical; SDILINE was the name given to the database that contains the latest monthly update to MEDLINE. However, Automatic SDI Service, whereby the output from stored searches is routinely sent to you each month, is available on the SDILINE, TOXLINE, CANCERLIT, HEALTH, POPLINE, AVLINE, and CATLINE databases.

Two things must be done in order to have Automatic SDI or current awareness data sent to you:

1. Store the searches, following the procedures outlined in the Online Services Reference Manual, Section 5.2.2

2. Submit one NLM Automatic SDI Service Request Form, as described in the Manual, Section 5.2.5, for each database from which you wish Automatic SDI service.

Storing Automatic SDI Searches

Storing an Automatic SDI search consists of two intellectual processes: formulating the search and naming the search. Formulating a stored search for processing as an Automatic SDI is essentially the same as formulating any other stored search; however, in the case of the Automatic SDI stored search, special attention must be paid to the OFFSEARCH limits listed in the Manual (Section 5.1.5), especially if the SDI searches are to be run against TOXLINE, CANCERLIT, HEALTH, or POPLINE. Since there are no separate update subsets like SDILINE for these databases, the stored search must be run against databases that grow in size each month; the update tag (EM) is only ANDed with the search strategy at the very end. It is therefore essential in formulating stored searches to be run as Automatic SDIs to avoid:

> Stringsearching
> Large explosions (except Pre-explosions)
> Truncations (e.g., ALL TOXIC:)
> Long or involved strategies which, as the database grows, are apt to exceed the four minutes allowed for processing a single search

The largest single cause of failure in the processing of Automatic SDI searches is stringsearching, since, as the files grow, the number of retrieved citations on which a stringsearch is to be performed very quickly reaches the limit of 3,000.
The naming conventions for stored searches to be run as Automatic SDIs follow (in addition to the ordinary rules for naming stored searches cited in the Manual, Section 5.2.2) the special rules outlined in Section 5.2.5. The special naming conventions for Automatic SDI stored searches require that the search name be prefaced by a four-character alphanumeric identifier that tells the program which database the search is to run against and what data elements of the retrieved citations are to be printed. The alphabetic characters (S, T, C, H, P, A, and B) tell the program whether the stored search is to be run against SDILINE, TOXLINE, CANCERLIT, HEALTH, POPLINE, AVLINE, or CATLINE. The three numbers tell the program which print format is to be used. The print formats corresponding to each range of numbers for each database are given on the verso of the NLM Automatic SDI Service Request Form (hereinafter referred to as the SDI Form). In assigning numbers to automatic stored searches, two things must be noted:

1. If there is a space between the initial alphabetic character and the three numbers, the search cannot be processed. The program will recognize, for example, T001 DIOXIN as an automatic stored search to be run monthly against TOXLINE; it will not recognize T 001 DIOXIN. If you have stored searches with a space between the leading alphabetic character and the three numbers, you must either run it yourself each month as an OFFSEARCH or purge it, using the PURGESEARCH command, and start over with a new name and a new formulation.

2. The four alphanumeric characters at the beginning of the search name are a part of the search name and must be included in the character count for the name. The name may not exceed 30 characters.

The NLM Automatic Service Request Form: How and When to Use It

The first thing to be filled in on the SDI Form is your five-character MEDLARS USERID. This is the link between your request for automatic service and the stored searches from which you want automatic monthly retrieval. When you log in under your USERID, let us say XYZ01, and store a search whose name begins with a database-identifying letter and three numbers, e.g., T001 DIOXIN, that search is actually stored as T001 DIOXIN/MEDXYZ01. The suffix /MEDXYZ01 will never appear on a printout or in an online display, but the XYZ01 is the link between your SDI Form and your automatic stored searches. Therefore, it is essential that you enter your USERID in the box at the upper right-hand corner of the SDI Form and that you store automatic searches only when logged in under that USERID.

The fields for NAME, ADDRESS, and CITY, STATE, ZIP are self-explanatory. However, each field is limited to 50 characters and may not be continued on a second line. Also, the name you put in the NAME field should be as unlikely to change as possible -- an institution or office rather than a personal name. You can put your own name and telephone number in the space provided at the right. This information is not used by the program, but it is a convenience for the MMS staff, should they need to contact you about your SDI Form.
If you are requesting Automatic SDI service for the first time on a given database, check the box marked BEGIN and fill in the database name. Remember, you must submit an SDI Form for each database on which you wish Automatic SDI service. Do not submit an SDI Form for each search you store. Once you have established Automatic SDI service on a given database, all appropriately named searches stored under your USERID will be picked up by the program and run each month.

If you have already established Automatic SDI service on a given database but want to change something on your previously submitted form(s), check the box marked CHANGE and indicate the appropriate database. There are several kinds of changes you may wish to make. If you wish to change your name and/or address, remember that you must submit a change form for each database on which you have Automatic SDI service, as the records are kept separately for each database. Moreover, do not rely on a change of address notification sent to NLM for the NLM Technical Bulletin or for billing purposes being routed to the SDI Service.

You will also want to mark the CHANGE box if you wish to discontinue Automatic SDI service on a given database. In this case, indicate on which database(s) you no longer want SDI service. Do not submit a change form if you merely want to discontinue processing of certain searches. To stop processing of individual searches, simply use the PURGESEARCH command, as described in the Manual, Section 5.2.4, to delete the stored searches.

The bottom part of the SDI Form provides a place to indicate NUMERICAL RANGES, PRINT ELEMENTS, and SORT ELEMENTS. If you are satisfied with the default print and sort elements for the numerical ranges within which you have numbered your stored searches, leave these spaces blank. It is not necessary to let us know how your searches are numbered or how they are to be printed or sorted unless you are not satisfied with the default print and sort elements identified on the verso of the SDI Form. Remember that if you wish to override the default elements for a given number range, they will be overridden for all your searches stored in that number range. We cannot override print and/or sort elements for part of a number range; nor can we override them in more than one way within a number range.

There is one situation in which you must indicate print and sort elements: when you number your searches in the 701-800 range for any database. Since there is no default print format for this range, if you use it and fail to specify which elements you want printed, the search program will process the search, but the print program will be unable to print it and will return an error message. If you use the 701-800 number range, you must so indicate on the SDI Form and indicate which elements are to be printed and how the retrieval is to be sorted.

In all other cases, use this part of the SDI Form only if you have numbered your searches in one of the other four number ranges and wish to override the default elements or to override elements which you indicated on a previous form.

Finally, please do not submit an SDI Form unless you really mean to store searches for Automatic SDI processing. Once you have submitted an SDI Form, the program will look for searches stored under your USERID every month whether you have searches stored or not.
A copy of the SDI Form is enclosed with this issue; please make photocopies as needed.

The NLM Automatic SDI service is designed to make the provision of current awareness bibliographies as easy and trouble-free as possible. If you have any questions about the Automatic SDI procedures, please call MEDLARS Management on our toll-free number (800/638-8480).

*****

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - OCTOBER 1983
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

IM ACTA CHIRURGICA HUNGARICA
24,1983—
AKADEMIAI KIADO
CONTINUES: ACTA CHIRURGICA ACADEMIAE SCIENTIARUM HUNGARICAE. BUDAPEST HUNGARY
IN PROCESS A04844000

BEITRAGE ZUR INTENSIV- UND NOTFALLMEDIZIN
1,1983—
KARGER BASEL SWITZERLAND
ON ORDER B03335000

BIOLOGY...CURRENT TITLES IN THE BIOLOGICAL SCIENCES 1983—
ALLEN PRESS LAWRENCE KS UNITED STATES
ON ORDER B03335000

CAMBRIDGE STUDIES IN SPEECH SCIENCE AND COMMUNICATION 1,1983—
CAMBRIDGE UNIVERSITY PRESS CAMBRIDGE, ENG. ENGLAND
ON ORDER C03099000

CANCER DRUG DELIVERY 1,1983—
MARY ANN LIEBERT NEW YORK UNITED STATES
MARY ANN LIEBERT INC., 157 E. 86TH ST., NEW YORK NY 10028
ON ORDER C05470000 $110.00

COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY. C: COMPARATIVE PHARMACOLOGY AND TOXICOLOGY. 74N1.1983—
PERGAMON PRESS CONTINUES: COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY. C: COMPARATIVE PHARMACOLOGY. OXFORD ENGLAND
IN PROCESS C33670000

EMERGENCY MEDICINE SURVEY 1N1. JUL 1982—
WILLIAMS AND WILKINS BALTIMORE UNITED STATES
ON ORDER E06036000 $45.00

HEARING JOURNAL 3N1, JAN 1983—
LAUX COMPANY CONTINUES: HEARING AID JOURNAL. HARVARD MA UNITED STATES LAUX COMPANY, WEST BARE HILL ROAD, P.O. BOX L, HARVARD, MA 01451 IN PROCESS H09310000
INTERNATIONAL JOURNAL FOR BIOSOCIAL RESEARCH
CN1.1983--
BIOSOCIAL PUBLICATIONS CONTINUES: JOURNAL OF BEHAVIORAL ECOLOGY.
TACOMA WA UNITED STATES
BIOSOCIAL PUBLICATIONS, P.O. BOX 1174, TACOMA WA 98401
IN PROCESS
I26425000

INTERNATIONAL SYMPOSIUM OF THE SIMONE AND CINO DEL DUCA FOUNDATION ON CANCER PHARMACOTHERAPY
1ST,1991--
MASSON PUBLISHING USA
NEW YORK UNITED STATES
IN PROCESS
I34415000

JOURNAL OF CYCLIC NUCLEOTIDE AND PROTEIN PHOSPHORYLATION RESEARCH
9N1.1983--
RAVEN PRESS CONTINUES: JOURNAL OF CYCLIC NUCLEOTIDE RESEARCH.
NEW YORK UNITED STATES
RAVEN PRESS, 1140 AVENUE OF THE AMERICAS, NEW YORK CITY 10036
W1 J0612V
J18290000
$65.00

JOURNAL OF MEDICAL SCIENCE
1N1. JUL 1983--
RAMITASU DHAKA BANGLADESH
RAMITASU, GPO BOX 3497, DHAKA 2, BANGLADESH
IN PROCESS
J29250000
$40.00

LUNG INDIA
1N1, AUG 1982--
INDIAN CHEST SOCIETY BOMBAY INDIA
INDIAN CHEST SOCIETY, 7 1ST CROSS ST, SEETHA NAGAR, NUNGAMBANKAM, MADRAS 600 034 INDIA
IN PROCESS
L13530000
$25.00

NUTRITION UPDATE
1,1983--
WILEY NEW YORK UNITED STATES
IN PROCESS
N36105000

PERSPECTIVES IN CLINICAL PHARMACOLOGY
1N1, JUL 1983--
ELSEVIER SCIENCE PUBLISHING NEW YORK UNITED STATES
ON ORDER
P08983000
$46.00

PSYCHOLOGY AND HUMAN DEVELOPMENT
1.1983--
SOCIETY FOR PERSONALITY RESEARCH FIJI
UNIVERSITY OF THE SOUTH PACIFIC, FIJI
ON ORDER
P95265000
$24.00

SURGERY
1N1, JUN 1983--
MEDICAL EDUCATION INTERNATIONAL OXFORD ENGLAND
MEDICAL EDUCATION INTERNATIONAL, PEMBROKE HOUSE, 36/37 PEMBROKE ST, OXFORD OX1 1BR, ENGLAND
IN PROCESS
S48250000

*****

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THE NLM TECHNICAL BULLETIN

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ARTICLES & FEATURES

6 HEALTH Data Element Changes for 1984
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Enclosures: DIRLINE Chapter and HEALTH Replacement Pages, Online Services Reference Manual

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301/496-6193

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National Library of Medicine
Bldg. 38A, Rm. 4N421
Bethesda, Maryland 20209
TECHNICAL NOTES

Whenever applicable, the headings of each Technical Note include a reference to the section of the 1982 Online Services Reference Manual that is considered most relevant to the item being discussed (e.g., Manual 2.9). Users should keep in mind that the item may pertain to other sections of the Manual as well.

ALIASES FOR SHOW COST COMMAND

Effective December 12, 1983, the following aliases will be available for the various elements of the SHOW COST command:

- SHOW COST
- SH C
- TOTAL COST
- T R
- RESET DL
- DETAILED

Examples of their use are:

- SHOW C T (for SHOW COST TOTAL)
- SH C R (for SHOW COST RESET)
- SH C DL T (for SHOW COST DETAILED TOTAL)

Remember that even when using aliases, a space must separate the words or aliases for the SHOW COST part of the command; SHOW COST or its aliases are also the essential first words when issuing the command. The other optional elements in the command should also be separated from the SHOW COST portion by a space. These optional elements themselves may be separated from each other by a space or comma, depending on the searcher's preference.

MEDLINE/HEALTH DISSIMILAR DATABASES (Manual 5.1.2.1)

With the introduction of NHPIC (National Health Planning Information Center) data into the HEALTH file, the MEDLINE and HEALTH files became dissimilar databases. This dissimilarity is important to note when searching these two databases (and/or the MEDLINE BACKFILES and HEALTH) in OFFSEARCH. Searchers will recall that when searching dissimilar databases in the same OFFSEARCH, standard print instructions must be input in response to the 'PRINTSPECS' prompt. These standard print instructions are:

- SD for PRINT
- FU for PRINT FULL
- DL for PRINT DETAILED
- AR for PRINT AR (Author, Title, Source, Abstract; available for MEDLINE, HEALTH, POPLINE and BIOETHICS only)

Therefore, when searching HEALTH and any of the MEDLINE files together in one OFFSEARCH, the response to the PRINTSPECS prompt must be either SD, FU, DL, or AR. For example:
If these standard print instructions are not used when searching dissimilar files in OFFSEARCH, NLM cannot guarantee the integrity of the printouts received. When searching dissimilar files, the searcher may not specify individual elements or use an include or exclude instruction.

**USER ID**

To access the MEDLARS system, searchers are required to enter a User ID code and a Password in response to the LOGIN prompt, 'PLEASE ENTER USERID CODE/PASSWORD OR LOGON'. The format for entry is illustrated below using the User ID XYZ01 and the Password CHEERS:

**XYZ01/CHEERS**

The User ID code (also known as the "access code") is composed of three alphabetic characters and two numbers, e.g., XYZ01. This code is assigned to the user by NLM when the user applies for access. It is the principal, unique identifying feature of the user to the system and to the system personnel; it is required with all LOGINs to the system. When Service Desk personnel request a User ID code, they are referring to this five-character alphanumeric code. Similarly, Automatic SDI forms, as well as other MEDLARS forms, request the User ID code (again, for unique identification).

The Password, on the other hand, is an alphabetic character string of three to eight characters initially assigned to the searcher's User ID by NLM, but changeable at the searcher's discretion using the PROFILE command. The Password is not a requirement of the system, i.e., the searcher may delete the Password from a User ID code, in which case, the Password will no longer be required at LOGIN. However, use of a Password with a User ID code is recommended to prevent unauthorized access to the system by someone who may have "discovered" the searcher's User ID code. NLM also recommends changing one's Password periodically to insure additional User ID security. The Password in and of itself does not uniquely identify the user to the system. Since it is a security feature of the system, the Password should not be posted near the terminal nor accompany the User ID code on any form (e.g., an Automatic SDI form) nor be divulged in routine conversations about one's User ID code or access. On occasion, MMS Service Desk personnel will ask for a Password. Generally, however, they will merely require a User ID to answer most questions.
NLM TECHNICAL BULLETIN - DEC 83

DIRLINE VERSION - The DIRLINE database currently available on the MEDLARS system is the October 1982 version of the National Referral Center (NRC) database; the NRC database is, at the present time, the only component of DIRLINE. The October 1982 NRC data has not yet been updated. NLM anticipates updating DIRLINE early in 1984 to reflect a more current version of the NRC database. For information concerning the content of the NRC database, please contact:

Staffan Rosenberg
The Library of Congress
National Referral Center
Washington, DC 20540
202/287-5683

IBM 3270 ACCESS - NLM is investigating the potential for IBM 3270 terminal access to the NLM computer. Experimentation will begin as soon as the value-added networks (e.g., Telenet, Tymnet) can support these terminals. At present, IBM 3270 terminals cannot access the MEDLARS system through the data communications networks.

PRE-EXPLOSION TERMS IN MULTIPLE TREES - Some Pre-explosion terms occur in more than one MeSH tree or category; however, in all cases, only one tree number is EXPLODED. If the Pre-explosion is used, only the EXPLODED tree number designated on the list of Pre-explosions for 1984 is retrieved. For example, DENTISTRY (PX) retrieves the same results as EXP E6; DENTISTRY (PX) does not retrieve the same results as EXP G2.163. (G2.163 is the alternate tree number for DENTISTRY.) The alternate tree number may be EXPLODED by specifically entering the tree number with the EXPLODE instruction, e.g., EXP G2.163. The Pre-explosions occurring in more than one tree are:

<table>
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<tr>
<th>Pre-explosion Name</th>
<th>EXPLODED Tree Number</th>
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<td>H1.181.278</td>
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<td>E6</td>
<td>G2.163</td>
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<td>G5</td>
<td>G1.273.343</td>
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<tr>
<td>METALS</td>
<td>D1.552</td>
<td>J1.637.517</td>
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<tr>
<td>NEUROLOGIC MANIFESTATIONS</td>
<td>C10.597</td>
<td>C23.888.592</td>
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</table>

Please check the tree structures to determine which tree Explosion is desired in a specific search situation.

PRE-EXPLOSION LIST BY CATEGORY - Included with this issue as Appendix A is a complete list of all Pre-explosions (PX) through 1984 arranged by MeSH category or tree number. This grouping may be more useful in actual searching than the alphabetical list by Pre-explosion name that was issued with the October 1983 issue.

MANUAL CHAPTER AND REPLACEMENT PAGES - Enclosed is a new chapter, DIRLINE, for the 1982 Online Services Reference Manual; replacement pages for the HEALTH chapter, with instructions for filing, are also enclosed.
HEALTH DATA ELEMENT CHANGES FOR 1984
Lou Wave S. Knecht, MEDLARS Management Section, NLM

Effective December 12, 1984, HEALTH has a new look! Every record in the database carries the SI (Secondary Source ID) field that was originally introduced for the NHPIC (National Health Planning Information Center) records only with the May 1983 update. Possible values for the SI field now include the following:

- **MED** for records derived from MEDLINE
- **AHA** for records derived from the American Hospital Association
- **NP/######** for records derived from NHPIC (# equals a number)
- **AAMC** for records derived from the Association of American Medical Colleges

Currently the values MED, AHA, and NP/###### are mutually exclusive. The SI field is, however, multiply-occurring, and the AAMC value may appear on a record along with either the MED or AHA values. (Note: The AAMC notation is no longer actively being added to HEALTH records; it is a retrospective tag on a small number of records and never appears alone.) The SI field prints as the first line of every standard HEALTH PRINT format, i.e., PRT, PRT FU, PRT DL, and PRT AR.

Searching the Expanded SI Field

The SI data element is directly searchable. In the case of the NP/###### tag, both the entire value (including the slash and numbers) and the 'NP' prefix are searchable. The latter, (SI) NP, retrieves the entire NHPIC subset of HEALTH. In past issues of the NLM Technical Bulletin (March and May, 1983), search hints for excluding the MEDLINE citations and limiting to monographic citations were given. THESE ARE STILL PROPER SEARCHING TECHNIQUES. The addition of the SI field to every HEALTH record has not changed those techniques. Rather, the addition has made the HEALTH file more uniform and offers other ways of searching. For example, use any of the following to exclude the MEDLINE citations from a HEALTH search:

- **SS 2:** 1 AND H (LI) OR 1 AND NP (SI)
- **SS 3:** 1 AND NOT MED (SI)
- **SS 4:** 1 AND AHA (SI) OR 1 AND NP (SI)

**NOTE:** The H (LI) tag and the AHA (SI) tag are identical for retrieval purposes. The H (LI) tag was retained upon the introduction of the AHA (SI) tag because the NLM anticipated that the former may be included in many saved/stored searches and recognized that it had become a searching habit over the years.
In terms of cost-effective searching, SS 2 or SS 4 are probably less expensive than SS 3. Even though SS 3 looks simpler, the MED (SI) tag has a large number of postings (about 80% of the database) and results in more TIME OVFLW messages, which are a factor in the computer work units component of the pricing algorithm.

The technique for eliminating the NHPIC records or limiting a HEALTH search to journal articles remains the same, i.e.:

\[ \text{SS 5 1 AND NOT NP (SI)} \]

The SB (Journal Subset) Field

The SB (Journal Subset) field previously carried the value 'N' to identify the AAMC records. This tag has been deleted with the addition of the AAMC (SI) tag that now identifies those records. NLM chose to delete the N (SB) tag because it is not an active, ongoing subset of the HEALTH file; deletion avoids carrying redundant data in the database.

The DA (Date of Entry) Field

When the NHPIC records were added with the May 1983 update, they lacked the DA (Date of Entry) field. If a search included a range statement, these records were automatically excluded from the retrieval. Now all NHPIC records carry a DA value of 830324, and the warning about ranging on DA with regard to the NHPIC records has been retracted.

Manual Replacement Pages

These changes are reflected in the replacement pages for the HEALTH chapter of the Online Services Reference Manual, which are enclosed with this issue.

*****

SEARCH HINT: USING DATA FORM ABBREVIATIONS
Thelma Charen, Index Section, NLM

Data Form abbreviations are short forms of Medical Subject Headings (MeSH) used in indexing and searching MEDLINE and other databases in the MEDLARS system that use MeSH. Searchers can save key strokes, and therefore, time by taking advantage of these shortened forms. Short forms also lessen the chances of misspelling at input.

A short form can be used when it stands alone or when it appears within a MeSH term. That is, PREGNANCY can be searched by the Data Form abbreviation PREGN but in addition terms containing the word PREGNANCY can be shortened: the MeSH heading PREGNANCY TESTS can be entered as PREGN TESTS.

The Data Form abbreviations are generally indicated in the MeSH annotation by "DF:" followed by the shortened form. Some of the easily memorized or heavily used Data Form abbreviations, however, are not noted in the annotation (for example, NEOPLASMS, which has been entered consistently as NEOPL).

Further discussion of Data Form abbreviations can be found in Medical Subject Headings, Annotated Alphabetic List, 1984, pages VII-IX.
Following is a list of the common Data Form abbreviations in use for 1984. They apply to major and minor descriptors as well as entry terms, i.e., main headings, see unders, and see references. Data Form abbreviations do not apply to Pre-explosions.

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- terms containing parentheses [except for IMMUNOSUPPRESSION (PHYSIOLOGY) and DESENSITIZATION (PSYCHOLOGY); must use IMMUNOSUPPRESSION PHYSIOL to avoid confusion with IMMUNOSUPPRESSION and DESENSITIZATION PSYCHOL to avoid confusion with DESENSITIZATION, IMMUNOLOGIC]
- terms containing hyphen [see references not routinely changed]
- terms containing 'S, S', 'T, and Z'
- terms containing a word existing as an indexing subheading abbreviation [indexing subheading abbreviations are not the same as those used in searching; see the list on pages XLVIII-XLIX of the 1984 Annotated MeSH]

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CORRECTIONS TO ANNOTATIONS:
MEDICAL SUBJECT HEADINGS, ANNOTATED ALPHABETIC LIST, 1984
Thelma Charen, Indexing Section, NLM

The following corrections to the annotations in Medical Subject Headings, Annotated Alphabetic List, 1984 were made after the publication deadline this summer. All will be included in the 1985 edition. You may wish, however, to make appropriate changes to your 1984 MeSH in order to benefit from the information during the upcoming year.

DIABETES MELLITUS, INSULIN-DEPENDENT

Correct "maturity onset which goes under DIABETES MELLITUS" to read "maturity onset which goes under DIABETES MELLITUS, NON-INSULIN-DEPENDENT"

HAND DERMATOSES

"specific diseases" should read "specific skin diseases"

INSULIN

"INSULIN INFUSION SYSTEM" should read "INSULIN INFUSION SYSTEMS"

KIDNEY

Goldblatt kidney: index under HYPERTENSION, RENAL should read HYPERTENSION, RENOVASCULAR

LANGUAGE THERAPY

Delete /man from the permitted subheadings: it is not permitted with this category

ORTHOPEDICS

The Manual reference should read 26.26, not 26

PATIENT ISOLATORS

Delete /instrum from among the permitted subheadings: it is not permitted with this category

PHYSICIANS’ ASSISTANTS

Mention of paramedics should be made to read "PARAMEDICS see ALLIED HEALTH PERSONNEL is available"

PREOPERATIVE CARE

Add this note which appears under ANTIBIOTICS & under PREMEDICATION: "preop use of antibiotics for prev of infect: index under PREMEDICATION (IM) + the antibiotic /ther use (IM) & not here"
RISK-TAKING

delete the present subheading permission: it is not legal by category. Say instead "no qualif"

The cataloging annotation, CATALOG: /geog /form should be removed from the following list of headings:

- CANCER CARE FACILITIES
- CARDIAC CARE FACILITIES
- HOSPITALS, CHRONIC DISEASE
- HOSPITALS, COUNTY
- HOSPITALS, DISTRICT
- HOSPITALS, FEDERAL
- HOSPITALS, GROUP PRACTICE
- HOSPITALS, MATERNITY
- HOSPITALS, MILITARY
- HOSPITALS, MUNICIPAL
- HOSPITALS, OSTEOPATHIC
- HOSPITALS, PACKAGED
- HOSPITALS, PEDICIAN
- HOSPITALS, PROPRIETARY
- HOSPITALS, SATELLITE
- HOSPITALS, STATE
- HOSPITALS, UNIVERSITY
- HOSPITALS, VOLUNTARY

*****

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT - NOVEMBER 1983
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. IM to the left of the title indicates that the title appears in Index Medicus. ON ORDER, IN PROCESS, or an actual NLM call number appears at the bottom of the entry. Please include the NLM call number on interlibrary loan requests. Of course, NLM cannot fill loans for titles not yet received by the Library. The list is offered as an early announcement and will include price information if known. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Janice Lennox, 301/496-1276, Technical Services Division, NLM.

ACUPUNCTURE RESEARCH QUARTERLY
1,1983--
CHINESE ACUPUNCTURE SCIENCE RESEARCH FOUNDATION (CARF)
TAIPEI TAIWAN
ACUPUNCTURE RESEARCH QUARTERLY CARF, P.O. BOX 84-223, TAIPEI TAIWAN R.O.C.
ON ORDER
A11830000
ON ORDER

COMPUTING PHYSICIAN
1,1983--
PM COMMUNICATIONS
NEW YORK UNITED STATES
PM COMMUNICATIONS, 515 MADISON, NEW YORK NY 10022
ON ORDER
C36510000
$85.00

IM BELGISCH TIJDSSCHRIFT VOOR TANDHEELKUNDE
38N3, JUN 1983--
UITGEVERIJ INTERSCHRIFT
CONTINUES: REVUE BELGE DE MEDECINE DENTAIRE
DEURNE BELGIUM
AVE DE JETTE 165, 1090 BRUSSELS, BELGIUM
IN PROCESS
B04161000

DISCOVERIES IN PHARMACOLOGY
1,1983--
ELSEVIER AMSTERDAM NETHERLANDS
ON ORDER
D16135000
$120.00
HEALTH CARE STRATEGIC MANAGEMENT
1NOCT 1983--
CHI SYSTEMS
ANN ARBOR MI
UNITED STATES
HEALTH CARE STRATEGIC MANAGEMENT, CHI SYSTEMS INC. P.O. 6626, ANN ARBOR MI 48107
IN PROCESS
H04305000
$40.00

SOCIOECONOMIC PROFILE ON THE AMERICAN PHYSICIAN
1983--
AMERICAN MEDICAL ASSOCIATION
CHICAGO
UNITED STATES
ORDER DEPT., AMERICAN MEDICAL ASSOCIATION, P.O. BOX 10946, CHICAGO IL 60610
ON ORDER
S29990000

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS
1NOCT 1983--
ADENINE PRESS
GUILDERLAND NY
UNITED STATES
ADENINE PRESS, JOURNAL DIVISION, P.O. BOX 340 GUILDERLAND NY 12084
IN PROCESS
J14645000
$190.00

SPORTS MEDICINE
1,1983--
ADIS PRESS PUBLICATIONS
WANCHAI HONG KONG
US SUBSCRIPTIONS: ADIS PRESS INTERNATIONAL, 401 SOUTH STATE ST., NEWTOWN PA 18940
ON ORDER
S36237000
$95.00

LENS RESEARCH
1N1.1,1983--
MARCEL DEKKER
1983 COMPLETE IN 3 ISSUES.
NEW YORK
UNITED STATES
MARCEL DEKKER, P.O. BOX 11305, CHURCH STREET STATION, NEW YORK NY 10249
IN PROCESS
L05853000
$125.00

TRAVEL AND TRAFFIC MEDICINE INTERNATIONAL
1,1983--
B EDSALL
LONDON ENGLAND
B EDSALL, 124 BELGRAVE ROAD, LONDON SW1V 2BL, LONDON
IN PROCESS
T20030000

MELANOMA LETTER
1N1.FALL 1982--
SKIN CANCER FOUNDATION
NEW YORK
UNITED STATES
ON ORDER
M27170000

MELANOMA LETTER
1N1.FALL 1982--
SKIN CANCER FOUNDATION
NEW YORK
UNITED STATES
ON ORDER
M27170000

ZEITSCHRIFT FUR KLINISCHE PSYCHOLOGIE, PSYCHOPATHOLOGIE UND PSYCHOTHERAPIE
31,1983--
VERLAG KARL ALBER
CONTINUES: ZEITSCHRIFT FUR KLINISCHE PSYCHOLOGIE UND PSYCHOTHERAPIE.
MUNCHEN GERMANY, WEST
VERLAG KARL ALBER, SPARKASSENSTRASSE 4, MUNCHEN 2, GERMANY
IN PROCESS
Z04110000

RECENT ADVANCES IN CARDIAC ARRHYTHMIAS
1,1983--
JOHN LIBBEY
LONDON ENGLAND
JOHN LIBBEY AND COMPANY LTD., 80/84 BONDWAV, LONDON SW8 1SF ENGLAND
ON ORDER
R05590000

*****

--PLEASE TYPE NEWS TO SEE MOST RECENT NEWS ITEMS ONLINE--

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APPENDIX A

PRE-EXPLOSIONS BY CATEGORY

NOTES: All Pre-explosions work in MEDLINE, its backfiles, and HEALTH. Pre-explosions must be searched as NAME (PX), e.g.: CARDIOVASCULAR SYSTEM (PX) *CARDIOVASCULAR SYSTEM (PX)
Remember to disguise the word AND in PX names, e.g.: MOUTH AND TOOTH DISEASES (PX)
Subheadings can be searched with Pre-explosions only by "free-floating," e.g.: BACTERIA (PX) AND IP (SH)

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