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The NLM Technical Bulletin

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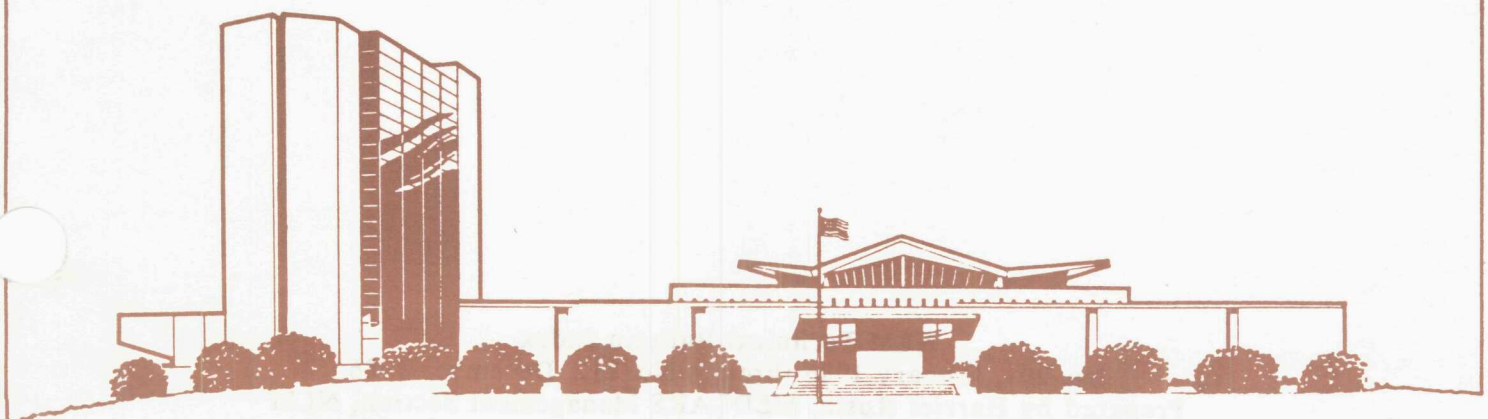

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Prepared by Harriet Rusin, MEDLARS Management Section, NLM

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Recent TOXNET Search Enhancements

Philip Wexler
Specialized Information Services

Heraclitus might have said you cannot step into the same TOXNET system twice. Once again improvements in TOXNET software are making the search system's river more navigable for experienced and novice searchers alike.

HSDB Review Status Tags

The Scientific Review Panel (SRP) provides the peer review function for HSDB records. Data statements in HSDB now carry tags defining the status of the data as determined by the SRP. These tags automatically display when a PRINT command is issued. The tags are:

ACCEPTED -- Indicates that the data statement has been reviewed and accepted for inclusion in the HSDB record by the SRP. Such data have been deemed reasonably accurate and complete by the SRP.

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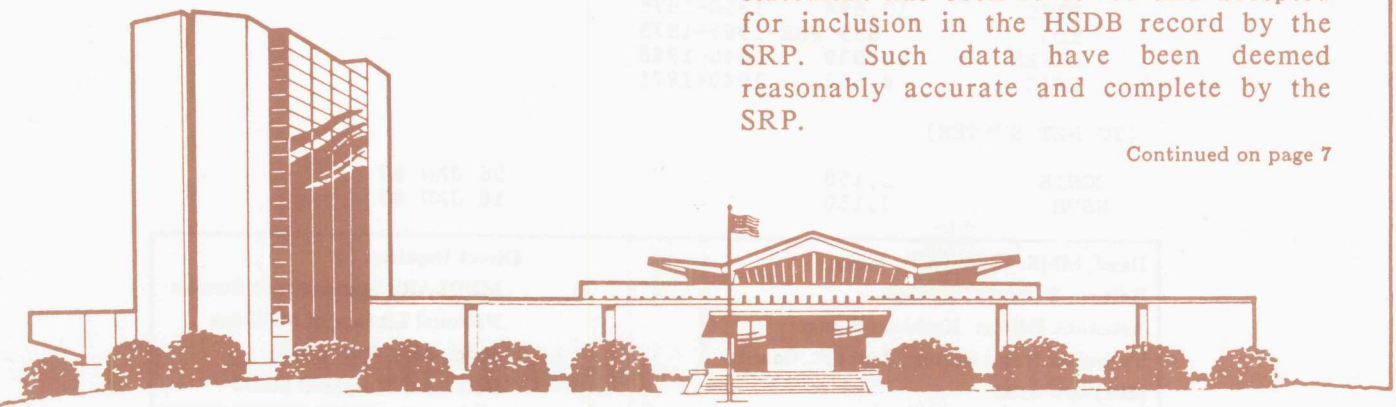

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DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
(ELHILL SYSTEM)				
AVLINE	15,743	THROUGH 1987	29 JAN 87	
BIOETHICS	21,602	JAN 73-1986	06 DEC 86	8612(EM)
CANCERLIT	562,490	JAN 63-JAN 87	03 JAN 87	8701(EM)
CANCERPROJ	10,183	THROUGH 1986	05 JUL 86	8607(EM)
CATLINE	611,795	THROUGH 1987	29 JAN 87	
CHEMLINE	713,144		06 DEC 86	8612(EM)
CLINPROT	5,842		23 JAN 87	8701(EM)
DIRLINE	15,557		21 OCT 86	
HEALTH	366,904	JAN 75-FEB 87	10 JAN 87	8702(EM)
HISTLINE	75,289		03 JAN 87	8701(EM)
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MED83	584,303	JAN 83-DEC 84	02 JAN 87	
MED80	804,720	JAN 80-DEC 82	15 DEC 86	
MED77	775,043	JAN 77-DEC 79	15 DEC 86	
MED75	642,612	JAN 75-DEC 76	15 DEC 86	
MED71	882,903	JAN 71-DEC 74	15 DEC 86	
MED66	954,368	JAN 66-DEC 70	15 DEC 86	
MESH VOC	59,605	1987	10 JAN 87	
NAME AUTH	281,491		26 JAN 87	
POPLINE	153,398	1970-JAN 87	10 JAN 87	8701(EM)
RTECS	84,556	THROUGH OCT 86	26 NOV 86	
SDILINE	22,329	FEB 87	02 JAN 87	8702(EM)
SERLINE	68,123	1987	10 JAN 87	
TOXLINE	918,060		17 JAN 87	8701(EM)
CBAC	495,365	1981-VOL 105(12,13)		
TOXBIB	197,164	1981-FEB 1987		
IPA (ASHP)	41,782	1981-VOL 24(1,2)		
BIOSIS	55,247	DEC 1986		
HEEP	49,788	1981-VOL 14(8)		
PESTAB	1,536	1981		
EMIC	12,899	1981-MAR 1986		
ETIC	15,184	1981-NOV 1986		
TD3	26,274	1981-GRA&I 86 (20,21)		
HMTC	1,869	1981-APR 1986		
ILO	5,249	JAN 1987		
RPROJ/CRISP	16,086	FISCAL YEARS 1983, 1984, 1985		
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EPIDEMIOLOGY	8,722	JAN 1987		
TOXBACK76	555,808		27 AUG 84	
CBAC	298,383	1976-1980		
TOXBIB	106,643	1976-1980		
IPA(ASHP)	33,321	1976-1980		
HEEP	63,796	1976-1980		
PESTAB	14,757	1976-1980		
EMIC	17,267	1976-1980		
ETIC	11,970	1976-1980		
TD3	9,671	1976-1980		
TOXBACK65	598,424		27 AUG 84	
CBAC	287,992	1965-1975		
TOXBIB	155,387	1965-1975		
IPA(ASHP)	33,876	1969-1975		
HEEP	54,075	1970-1975		
HAPAB/PESTAB	18,416	1968-1975		
EMIC	19,554	1950-1975		
ETIC	13,694	1950-1975		
TD3	839	PRE-1965-1975		
HAYES	10,039	1940-1968		
TMIC	4,552	1940-1975		
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HSDB	4,150		16 JAN 87	

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Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 that is considered most relevant to the item being discussed, e.g., (Manual 4.7.2). Users should keep in mind that the item may pertain to other sections of the Manual as well.

GEORGE WASHINGTON'S BIRTHDAY HOLIDAY SCHEDULE

The NLM computer will be up on a guaranteed basis Monday, February 16, 1987, the day of the Federal government's observance of George Washington's Birthday. Non-prime rates will be in effect all day and the MEDLARS Management Service Desk will not be staffed. On Washington's Birthday, Sunday, February 22, 1987, it is expected that the NLM computer will be up all day on the regular Sunday non-guaranteed schedule and at non-prime rates. DOCLINE will be up, but non-guaranteed. The DOCLINE Service Desk will not be staffed, but messages may be left on the answering machine. The TOXNET computer system status is always guaranteed with non-prime rates in effect on all holidays. Please see the October 1986 *NLM Technical Bulletin*, Appendix C, for the complete 1987 holiday schedule.

CHEMLINE/TOXLINE PRICE CHANGES

Reminder: Effective January 1, 1987, the charges for CHEMLINE and TOXLINE have changed due to royalty price increases by subfile suppliers. A letter notifying users and explaining these changes was included with the December 1986 *NLM Technical Bulletin*. The approximate average hourly rate for CHEMLINE is $86 prime/$79 non-prime and for TOXLINE, $109 prime/$102 non-prime. A searcher's actual hourly rate will vary based on total resources used, and, especially, citations (including characters) printed online. The components of the NLM Online Pricing Algorithm which are affected by these royalty changes are the connect time, citation, and offline page charges. A discount for estimated browsing is no longer included in the citation charge. Use the PRINT BROWSE command to print titles (TOXLINE and its Backfiles) or systematic chemical names (N1) (CHEMLINE) online without incurring a citation charge. TOXLINE Automatic SDI searches are now $4.00 per search (includes $3.00 royalty charge). The full domestic and foreign pricing schedule is included with this issue of the *NLM Technical Bulletin* as Appendix A.

The online SHOW COST command display was changed on January 11, 1987 to reflect the new rates. The EXPLAIN CHARGES command display stills reflects the 1986 rates. An announcement of the updating of this command to reflect the new rates will be made in the online NEWS and the *NLM Technical Bulletin.*

NEW TOXLINE SUBFILE
(Manual 12.5, 12.1)

The Epidemiology Information System file, built and maintained by the Center for Food Safety of the Food and Drug Administration, and formerly available on the DOE/RECON system, was added to TOXLINE as a separate subfile with the update on January 17. 8,722 records were included in that update, and approximately 300 additional records are expected quarterly.

The subfile acronym "EIS" appears in the abstract field of records from this subfile (even when no abstract text is available). The file includes citations to literature on the distribution and health effects of food contaminants, especially unavoidable contaminants, including natural toxicants in foods. A full article describing this subfile will be published in an upcoming issue of the *NLM Technical Bulletin.*

CHANGES AVAILABLE IN THE 1987 ELHILL SYSTEM

(Manual 16.4.11; 15+; 6.8.31)

CANCERLIT now has a searchable language tag of FOR (LA). Retrieval may be limited to English-language publications by eliminating the foreign-language citations. (Approximately 22% of the citations in CANCERLIT are non-English). For example, to limit the retrieval in Search Statement 2 to English-language publications, enter the strategy, "2 AND NOT FOR (LA)".

A new Explain Command is available. The command EXPLAIN PDQ produces a description of the PDQ database.

The Note (NO) field for supplementary chemical records in the MESH VOCABULARY FILE is now Text Word searchable. In the chemical term unit record, the Note data element consists of narrative information about the chemical.

NEW DATA FORM ABBREVIATIONS

(Manual 6.3.4, 6.9.1)

Two MeSH headings which are new for 1987 have Data Form abbreviations (DF) available that were not established in time for printing in either the *Medical Subject Headings - Annotated Alphabetic List, 1987* or the *NLM Online Services Update, 1987*. (Data Form abbreviations are short forms of headings which may be used instead of the longer, spelled out term when searching.)

AGED 80 is the DF abbreviation for AGED, 80 AND OVER. NSAID is the DF abbreviation for ANTI-INFLAMMATORY AGENTS, NON-STEROIDAL. Please annotate the *Annotated Alphabetic List, 1987* on page 21 for AGED, 80 AND OVER with "DF: AGED 80" and annotate page 54 for ANTI-INFLAMMATORY AGENTS, NON-STEROIDAL with "DF: NSAID".

YEAR-END PROCESSING WORKFLOW: IMPLICATIONS FOR ORDER-OF-PRINTING

The NLM year-end processing workflow was redesigned in 1985 for the 1986 system and was used again this year for the 1987 system. Most of the new workflow is transparent to the online searcher, with one exception. All records that are to be changed in a database during year-end processing are segregated for that processing. Once the changes are made to the citations, they are added back into the database at the top as if they were a large "update". This impacts slightly on the expected reverse chronological order of the file that results in the "last-in, first-out" rule for printing. In general, the citations are still loaded with the older records first and newer records last, but changed records, regardless of age, are now added "on top" once-a-year as a result of year-end processing. Therefore, older records may print before newer records in a file if they have been changed. This situation is true for MEDLINE, its Backfile and HEALTH.

1987 MESH CHEMICAL TOOL

The *Medical Subject Headings--Supplementary Chemical Records, 1987* may now be ordered from the National Technical Information Service (NTIS). (Actual publication is scheduled for February or March.) The publication number is PB87-133229/GBB. The prices of the hardcopy version are $36.00 in the United States and Canada and $72.00 elsewhere. Microfiche prices are $13.50 and $27.00. There is a $3.00 (U.S./Canada) shipping and handling charge required for each order ($4.00 foreign). Please send remittance with orders to:

National Technical Information Service (NTIS)
5285 Port Royal Road
Springfield, Virginia 22161
(703) 487-4650 (for telephone orders with deposit account or credit card)

This edition of the chemical tool supersedes the 1986 publication and contains records of approximately 23,000 chemicals which have been mentioned in a significant way in journal articles indexed for MEDLINE since 1970. The publication is intended as an aid to indexers and users of *Index Medicus* and MEDLINE. It is also useful when searching the various cancer databases.

LIST OF SERIALS INDEXED FOR ONLINE USERS, 1987

The *List of Serials Indexed for Online Users, 1987* may now be ordered from the National Technical Information Service (NTIS). Delivery is expected in February. The publication number is PB87-133237/GBB. The U.S./Canadian price is $16.50 for hardcopy and $6.50 for microfiche; the foreign price is $33.00 (hardcopy) and $13.00 (microfiche). Orders should be sent to the address given in the previous Technical Note. Remittance should accompany all orders. Please include $3.00 (U.S./Canada) per order to cover postage and handling ($4.00 foreign).

CUMULATED INDEX MEDICUS

The *1986 Cumulated Index Medicus, Volume 27* is now available for purchase from the U.S. Government Printing Office. Delivery is expected in April. The stock number is S/N 617-052-00264-7; the U.S. price is $204 ($255 foreign). Orders should be sent to:

Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402
(202) 783-3238 (for phone orders)

LIST OF JOURNALS INDEXED IN INDEX MEDICUS

The *List of Journals Indexed in Index Medicus, 1987* is now available for purchase from the U.S. Government Printing Office. The stock number is S/N 717-100-00003-4; the U.S. price is $10.00 ($12.50 foreign). Orders should be sent to the address given in the previous Technical Note.

NEW POPLINE THESAURUS
(Manual 24.4.15, 24.7)

The *POPLINE Thesaurus* has been revised. The new edition, dated Fall 1986, updates and supersedes the Summer 1984 edition. The new edition has been mailed to those institutions that had previously received the 1984 edition. Any organization that has not received the new edition, or any organization or individual that needs a *POPLINE Thesaurus* may request one from the producers at the following address:

Population Information Program
The Johns Hopkins University
624 North Broadway
Baltimore, MD 21205

Please include the organization name and mailing address. A position title in addition to a personal name is also needed.

PRICING SCHEDULE

The complete domestic and foreign pricing schedule for MEDLARS services in included with this issue as Appendix A.

TREE ANNOTATIONS, 1987

No new edition of the *Medical Subject Headings, Tree Annotations* will be published in 1987. Searchers with the 1984 edition of the Tree Annotations, which was the last edition published, should consult Appendix B for a list of changes that should be made to this 1984 edition to keep the information current.

MEDLINE DATE OF ENTRY RANGES
(Manual 7.3.7)

A list of the Dates of Entry (DA) ranges for MEDLINE and its Backfiles is attached to this issue as Appendix C.

MISSING OSRM PAGES

Several pages of the *Online Services Reference Manual, 1986* were inadvertently deleted in printing. These pages include parts of sections 4.10.2.1.3, 11.3, and 14.4.18. Copies of these pages are attached at the back of this issue. Users should check their copies of the OSRM and insert these pages if necessary.

NLM TECHNICAL BULLETIN INDEX

Enclosed with this issue is a copy of the latest index to the *NLM Technical Bulletin*, covering the January 1986 through December 1986 issues.

Please access **FILE INFORM** *and type* **NEWS** *to see the most recent news items online!*

CORRECTION TO MeSH ANNOTATION:

The annotation for **LYMPHOMA** in the *Medical Subject Headings -- Annotated Alphabetic List, 1987* is incorrect. The correction given in the list of MeSH Errata published in the November 1986 *NLM Technical Bulletin* is also incorrect. The *correct* annotation is:

> "malignant lymphoma" can go here; do not confuse with malignant lymphogranuloma (= HODGKIN'S DISEASE); "non-Hodgkin's lymphoma" = LYMPHOMA, NON-HODGKIN'S or specific indentions; "Mediterranean lymphoma" = LYMPHOMA, MEDITERRANEAN see IMMUNOPROLIFERATIVE SMALL INTESTINAL DISEASE; "T-cell lymphoma": coord IM with T LYMPHOCYTES (NIM); /anal /blood supply /secret /ultrastruct permitted; coord IM with precoord organ/neopl term (IM)

TOXNET Enhancements
Continued from page 1

UNCONFIRMED -- Indicates that the data statement has been reviewed by the SRP but has been found questionable in some respect. The statement may be in conflict with other data in the record, come from an obscure source, or the source may lack key experimental details. Essentially, there is insufficient information available to either confirm or reject the statement. Nonetheless, the data statement may be of value to users and has, therefore, been retained.

UNREVIEWED -- Indicates that the data statement has not yet been reviewed by the SRP. It will carry this tag until the SRP does review it.

These tags are not searchable but may be selectively displayed as shown in the examples in Figure 1.

There may be cases where users specify a review status in a PRINT command but there are no data statements matching it. If this happens, the message NO DATA FOR THE SPECIFIED OPTION will display.

SAME Command

The SAME command limits false drops by searching for the co-occurrence of specified terms within data statements. It had been restricted to operate on one data field at a time. Some of our users suggested we extend its function to headers and categories. Done. The example in Figure 2 shows the SAME command used in progressively broader searching for chemicals affecting thyroid function.

It is important to be aware that the SAME command always operates *within* individual data statements. What the current enhancement allows is one-step SAME searching of all the data statements within a data field, header or category. Thus, in SS 2 from Figure 2, TOXNET will search for the co-occurrence of the terms "thyroid" and "function" in data statements from HTOX and NTOX, the two data fields indented under the header TOX.

Also, use of the OR operator is now permitted within the SAME command. The examples in Figure 3 show how this can streamline a search for chemicals that may cause various hypertensive effects in humans.

The order of execution of logical operators in TOXNET is AND, AND NOT, OR. Thus, in example 3, terms are first "ANDed" together, and the resultant combinations are then "ORed".

Truncation Limits Extended

The former truncation limit of 5 has been raised to 10. When a user enters a truncated term, whether or not preceded by ALL, the system scans the index for all entries for which the given term is a root. Previously, if there were more the 5 entries, the system would display a statement to that effect and request that the search be refined. Currently, the system will perform the specified search unless there are more than 10 entries which contain the entered term as a root.

When a truncated term, not preceded by the word ALL is entered, the system displays a list of entries in the index that contain this root. The message following this list now reads SELECT NUMBER(S), ALL OR NONE, giving users the option of selecting one or more of the retrieved entries. Figure 4 shows the truncation principle in practice.

HSDB Expanded Sources

Abbreviated references for virtually every data statement in HSDB have always been provided. Now, though, users have the option of displaying the full bibliographic citation, including page number, for any data statement. This capability is part of the PRT INDENTED print option, as shown in Figure 5.

Other Enhancements

Less recent enhancements not yet reported in these pages include a revised format for NEWS and a SEARCH IN PROGRESS cue.

Upon typing NEWS, TOXNET users are shown a table of contents of all news items. The items are listed in reverse chronological order (most current first), are given sequential numbers, dates, short titles, and seen/unseen status. Users are able to select whichever news items they care to see in full. The last item lists user assistance phone numbers.

The SEARCH IN PROGRESS cue is displayed after a search statement is entered. This cue assures users that TOXNET is processing the search.

Users are still encouraged to use the online COMMENT command to make recommendations or suggestions for TOXNET system improvements. For the high-tech shy, we also welcome communications delivered by covered wagon and carrier pigeon.

Displaying Review Status Tags

```
Example 1: PRT DL STATUS ACCEPTED
     (This command will display data statements that have "accepted" tags
     for all data fields of the retrieved records.)

Example 2: PRT ENEX STATUS ACCEPTED UNCONFIRMED
     (This command will display data statements with "accepted" or
     "unconfirmed" tags for data fields within the ENEX category of the
     retrieved records.)
```

Figure 1

Enhanced SAME command

```
SS 1 /C?
USER:
same (htox) thyroid and function
    SEARCH IN PROGRESS...
11 OCCURRENCES IN 11 RECORDS
SS (1) PSTG (11)

SS 2 /C?
USER:
same (tox) thyroid and function
    SEARCH IN PROGRESS...
18 OCCURRENCES IN 18 RECORDS
SS (2) PSTG (18)

SS 3 /C?
USER:
same (toxb) thyroid and function
    SEARCH IN PROGRESS...
26 OCCURRENCES IN 25 RECORDS
SS (3) PSTG (25)
```

Figure 2

Use of OR with the SAME command

Example 1: (Without OR in a SAME command)

```
SS 1 /C?
USER:
same (htox) pulmonary and hypertension
    SEARCH IN PROGRESS...
92 OCCURRENCES IN 92 RECORDS
SS (1) PSTG (92)

SS 2 /C?
USER:
same (htox) renal and hypertension
    SEARCH IN PROGRESS...
4 OCCURRENCES IN 4 RECORDS
SS (2) PSTG (4)

SS 3 /C?
USER:
same (htox) portal and hypertension
    SEARCH IN PROGRESS...
2 OCCURRENCES IN 2 RECORDS
SS (3) PSTG (2)

SS 4 /C?
USER:
1 or 2 or 3
    SEARCH IN PROGRESS...
SS (4) PSTG (98)
```

Example 2: (Two-step approach using OR within SAME)

```
SS 1 /C?
USER:
same (htox) pulmonary or renal or portal
    SEARCH IN PROGRESS...
1070 OCCURRENCES IN 819 RECORDS
SS (1) PSTG (819)

SS 2 /C?
USER:
same (htox) 1 and hypertension
    SEARCH IN PROGRESS...
98 OCCURRENCES IN 98 RECORDS
SS (2) PSTG (98)
```

Example 3: (One-step approach using OR within SAME)

```
SS 1 /C?
USER:
same (htox) pulmonary and hypertension or renal and hypertension or
            portal and hypertension
    SEARCH IN PROGRESS...
98 OCCURRENCES IN 98 RECORDS
SS (1) PSTG (98)
```

Figure 3

Truncation limit raised

```
SS 1 /C?
USER:
rat: (phmk)
    SEARCH IN PROGRESS...
THERE ARE MORE THAN 10 INDEX TERMS UNDER THE TRUNCATION TERM "RAT:"
PLEASE RESTRICT YOUR SEARCH FURTHER.

SS 1 /C?
USER:
rat: (metb)
    SEARCH IN PROGRESS...
MM (RAT:) (8)

#        TERM                  # POSTINGS

1         RAT                       412
2         RATE                      102
3         RATES                      37
4         RATIO                      17
5         RATION                      2
6         RATIOS                      1
7         RATLEDGE                    1
8         RATS                      588

SELECT NUMBER(S), ALL OR NONE-
USER:
1, 8
SS (1) PSTG (783)
```

Figure 4

Expanded source display

```
SS 1 /C?
USER:
ammonia (name)
    SEARCH IN PROGRESS...
SS (1) PSTG (1)

SS 2 /C?
USER:
prt metb status accepted


HSN  - 162
NAME - AMMONIA
METB - ONCE ABSORBED, AMMONIA IS CONVERTED TO AMMONIUM ION AS THE
       HYDROXIDE & AS SALTS, ESPECIALLY AS CARBONATES. THE AMMONIUM
       SALTS ARE RAPIDLY CONVERTED TO UREA...MAINTAINING AN ISOTONIC
       SYSTEM. [PATTY. INDUS HYG & TOX 3RD ED VOL2A,2B,2C 1981-82 , p.
       3051] **ACCEPTED**

SS 2 /C?
USER:
prt metb status accepted indented


HAZARDOUS SUBSTANCES          162
 DATABANK NUMBER
NAME OF SUBSTANCE             AMMONIA
METABOLISM/METABOLITES        ONCE ABSORBED, AMMONIA IS CONVERTED TO
                              AMMONIUM ION AS THE HYDROXIDE & AS SALTS,
                              ESPECIALLY AS CARBONATES. THE AMMONIUM SALTS
                              ARE RAPIDLY CONVERTED TO UREA...MAINTAINING
                              AN ISOTONIC SYSTEM. [Clayton, G. D. and F.
                              E. Clayton (eds.). Patty's Industrial
                              Hygiene and Toxicology: Volume 2A, 2B, 2C:
                              Toxicology. 3rd ed. New York: John Wiley
                              Sons, 1981-1982.  p. 3051] **ACCEPTED**
```

Figure 5

Credit Cards For MEDLARS Online Charges

The National Library of Medicine and the National Technical Information Service (NTIS) are pleased to announce the immediate implementation of credit cards as an option for payment of NLM MEDLARS online services charges. Users who would like to switch from their present method of payment to credit card should call the Accounts Receivable Branch of the National Technical Information Service at (703) 487-4770. Users will need to supply the type of credit card, the credit card number, the expiration date, the card holder's name (and person placing the request if different from card holder) and the MEDLARS User ID code (i.e., XXX01). Only Visa, Master Card, and American Express cards are accepted.

Once credit card billing is authorized, NTIS will automatically charge the card for MEDLARS services each month. Invoices for MEDLARS service will then begin to show charges to the credit card number. It will be the user's responsibility to notify NTIS before the card expires, with new payment information (new card expiration date, MEDLARS User ID code, etc.). A warning notice that the card is about to expire will be printed on the invoice sent out by NTIS one month prior to the expiration date of the credit card. If NTIS does not receive the updated credit card information by the time the following month's invoices are created, the monthly charges incurred will be converted to a request for direct payment.

In the near future, the NLM Online Billing Agreement will be changed to include the option of credit card billing along with space for the card number, etc. New users will be able to designate credit card payments and include the necessary information on the Billing Agreement forms.

[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated.]

I tried to limit a subject search on the eye to only those articles which are contained in the journal Experimental Eye Research. *Since it was not included in the list of journal title abbreviations found on the HELP screen, I entered the title abbreviation (TA) for this journal found in the* List of Serials Indexed for Online Users *(LSIOU). The TA that I typed on the JOURNAL ABBREV line was EXP EYE RES. After GRATEFUL MED performed the search in MEDLINE, I received a NO POSTINGS (NP) message. I know that EXP EYE RES is the correct journal title abbreviation (TA) for MEDLINE for this journal. What am I doing incorrectly?*

The NLM system interprets the word EXP as the special instruction EXPLODE. Therefore, GRATEFUL MED does not understand that EXP is part of the title abbreviation EXP EYE RES.

The word EXP must be disguised in order for the system to interpret it correctly as a part of a title abbreviation. To do this, type a hash mark (#) in place of the E or the X or the P. For example:

CORRECT WAY:

SUBJECT WORDS: eye

JOURNAL ABBREV: e#p eye res

GRATEFUL MED will now reformat the search request properly when it searches MEDLINE:

SS 1 /C?
USER:
eye (mh) or eye (tw)

PROG:
SS (1) PSTG (4462)

SS 2 /C?
USER:
e#p eye res (ta)

PROG:
SS (2) PSTG (260)

SS 3 /C?
USER:
1 and 2

PROG:
SS (3) PSTG (57)

INCORRECT WAY:

SUBJECT WORDS: eye

JOURNAL ABBREV: exp eye res

This search, when reformatted by GRATEFUL MED, will not pick up the Journal Title Abbreviation EXP EYE RES.

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p. 3.

Erratum: In the GRATEFUL MED column for October 1986, the order number for *The Basics of Searching MEDLINE: A Guide for the Health Professional* was listed incorrectly. The correct order number is PB86-232650/GBB. Please refer to the Technical Notes section in this issue for the address of NTIS.

Monthly Search Hint:

Searching For Information On The Concepts Of The Handicapped and Chronic Diseases

Micki McIntyre
Eastern Region Online Training
and Information Center

The terms "handicapped" and "chronic diseases" can be interpreted in many ways. One person's concept of the handicapped or the chronically ill may be quite different from the perceptions of another. The official MeSH scope notes for these terms read as follows:

HANDICAPPED - Those persons with physical disabilities which limit or preclude their participation in certain activities.

CHRONIC DISEASE - A disease which persists over a long period of time.

According to those definitions, many conditions could be considered either a handicap, or a chronic disease, or both. The conditions which fall under these categories range from polio to tennis elbow, and from muscular dystrophy to sunburn.

While it is sometimes difficult to distinguish between handicaps and chronic diseases from the point of view of the requester, it is important to note that the indexers at the National Library of Medicine do make a distinction. There is very little overlap in retrieval between the two headings. A December 1986 search for CHRONIC DISEASE yields 5339 postings; a search for EXP HANDICAPPED yields 668 postings. Only 41 articles (fewer than 1%) were assigned both subject headings.

In order to efficiently search the literature for these two concepts, one should consider the limitations of each:

HANDICAPPED includes general articles about the handicapped as a named group of persons. When the heading is EXPLODEd, citations to articles about amputees will also be retrieved, but not citations concerning specific handicapping conditions.

CHRONIC DISEASE is a general term; articles pointedly discussing the chronicity of a disease will be retrieved. No specific chronic diseases are indented under this term, so explosions are not possible, and articles on specific chronic diseases will be retrieved only by searching for that specific disease, and not by searching under this heading.

While general articles are useful in some situations, frequently a requester requires information on specific handicaps or specific chronic diseases. Articles discussing those specific diseases and conditions can be retrieved only by using specific MeSH headings for those individual diseases and conditions. The most useful source of information about the different MeSH headings that might be applicable is the *Medical Subject Headings--Tree Structures*. By browsing the C tree (Diseases) one can locate the various conditions not covered in general articles retrieved by using the handicapped and chronic disease headings. The headings in Figure 1 (with tree numbers) are used to show the wide range of chronic and handicapping conditions that should be considered.

As can be seen, by using several Pre-explosions and Explosions a searcher is able to efficiently retrieve citations concerning specific handicapping or chronic disease conditions which then may be used in a search strategy. In each of these examples, a more extensive search using disease terms yields higher recall than would a search using the general terms only. A word of caution: using all of the disease terms "OR-ed" together may pull a great many "false drops" or unsuitable articles and result in a very large search. It is better to choose several "limbs" of the trees that are pertinent to the topic and test the search with those concepts. By isolating the individual concepts, a searcher is able to broaden a search after browsing the titles, as is shown in the

examples in Figures 2 (A & B) and 3 (A, B & C).

In the first search (Figure 2A), the combination of PROFESSIONAL-FAMILY RELATIONS and CHRONIC DISEASE yielded fourteen citations, all of which seem relevant to the topic. By combining PROFESSIONAL-FAMILY RELATIONS with the Pre-explosion of CENTRAL NERVOUS SYSTEM DISEASES (Figure 2B), twenty-five citations are retrieved and they appear equally relevant. After using the Boolean "AND" to compare the retrieval, only one citation is found to be indexed to both the heading CHRONIC DISEASES and a heading for a specific disease of the central nervous system. Thus, by including more specific terms in addition to the general MeSH term, recall is significantly increased with no apparent loss of precision.

In the second example, the search combining the sexuality terms and the Explosion of HANDICAPPED retrieves ten good citations (Figures 3A & 3B). The second search in this example, which combines the Explosion for CORONARY DISEASE, retrieves nine different citations (Figure 3C). No citations are indexed to both CORONARY DISEASE and HANDICAPPED. In this case, the nine citations are for articles that very specifically mention coronary diseases. When a search is narrowed in this fashion, the precision may increase, while the recall may decrease. Whenever a search is broadened (as in example 1, Figure 2B) there is a risk that the increase in recall will be accompanied by an increase in "false drops". The rise in the number of "false drops" is due to the extended number of headings being utilized in the new search.

Be aware that there may be some unexpected headings located in the disease trees. The following headings would be included in an explosion of the above-listed trees, and would be used for retrieval.

IMMUNOLOGIC DISEASES
DIAPER RASH, POISON IVY DERMATITIS, ECZEMA

METABOLIC DISEASES
LACTOSE INTOLERANCE

CENTRAL NERVOUS SYSTEM DISEASES
MIGRAINE

NEUROLOGIC MANIFESTATIONS
AMNESIA, TINNITUS, STUTTERING, INSOMINA, SOMNAMBULISM

MUSCULOSKELETAL DISEASES
FLATFOOT, MUSCLE CRAMP

WOUNDS AND INJURIES
TENNIS ELBOW, SUNBURN, TRENCH FOOT, MOTION SICKNESS

Searchers and requesters might not consider many of the above conditions as falling under the concepts of chronic diseases or the handicapped. Sufferers of the above conditions would argue that those conditions are long-lasting (chronic diseases) and/or preclude their participation in certain activities (handicapped). Therefore, searching in this area requires a thorough reference interview, including serious questioning of the requester as to the exact conditions to be included as a chronic disease or a handicap. A searcher would then be able to select the appropriate "limbs" of the trees to combine in the search to retrieve articles on specific conditions.

Some specific handicaps and chronic diseases

●MUSCULOSKELETAL DISEASES (NON MESH)	C5+
Arthritis (and related diseases)	C5.550.114+
Neuromuscular Diseases	C5.651.661+
Muscular Dystrophy	C5.651.661.523
Myasthenia Gravis	C5.651.661.580
Rheumatism	C5.799+
●CENTRAL NERVOUS SYSTEM DISEASES	C10.228+
Alzheimer's Disease	C10.228.140.79.60
Huntington Chorea	C10.228.140.79.255.492
Gilles de la Tourette's Disease	C10.228.140.79.450
Parkinson Disease	C10.228.140.79.804+
Epilepsy (and related diseases)	C10.228.140.490+
Poliomyelitis	C10.228.228.769+
Multiple Sclerosis	C10.228.337.578
Amyotrophic Lateral Sclerosis	C10.228.854.139
●NEUROLOGIC MANIFESTATIONS	C10.597+
Deafness	C10.597.257.443.271
Paralysis (different levels)	C10.597.622+
Blindness	C10.597.751.941.162
NEUROMUSCULAR DISEASES	C10.668+
Muscular Dystrophy	C10.668.523
Myasthenia Gravis	C10.668.580
●HEART DISEASES	C14.280+
Coronary Disease	C14.280.211+
●METABOLIC DISEASES	C18.452+
Diabetes Mellitus (and related dis.)	C18.452.297+
Hypoglycemia	C18.452.528+
IMMUNOLOGIC DISEASES	C20+
Autoimmune Diseases	C20.111+
Arthritis, Rheumatoid	C20.111.199+
Lupus Erythematosus, Systemic	C20.111.590+
Multiple Sclerosis	C20.111.610
Myasthenia Gravis	C20.111.620
Asthma	C20.543.480.680.95
Acquired Immunodeficiency Syndrome	C20.673.65+
Infectious Mononucleosis	C20.683.515.515
Leukemia (and related diseases)	C20.683.515.517
Hodgkin's Disease	C20.683.515.761.355
●WOUNDS AND INJURIES	C21.866+
Amputation, Traumatic	C21.866.62
Athletic Injuries	C21.866.115
Burns	C21.866.200+
Dislocations	C21.866.289+
Fractures.	C21.866.405+
Spinal Cord Injuries	C21.866.819+
Spinal Injuries	C21.866.831+
Sprains and Strains	C21.866.844+

● Denotes a Pre-Exploded heading
+ Denotes indented headings within the Trees

Figure 1

Example 1: The interaction between health care providers and the family members of critically ill patients.

```
SS 1 /C?
USER:
professional-family relations

PROG:
SS (1) PSTG (399)

SS 2 /C?
USER:
chronic disease

PROG:
SS (2) PSTG (5519)

SS 3 /C?
USER:
1 and 2

PROG:
SS (3) PSTG (14)

SS 4 /C?
USER:
prt browse 6

PROG:

1
TI  - Phases in the caring relationship: from adversary to ally to
      coordinator.

2
TI  - Helping parents to help their children comply with treatment
      regimens for chronic diseases.

3
TI  - A theoretical framework for standard care plans: a nursing
      approach for working with chronically ill children and their
      families.

4
TI  - Parents of hospitalized chronically ill children: competency in
      question.

5
TI  - Consulting with families of the chronic mentally ill.

6
TI  - Teaching mental health trainees to work with families of the
      chronic mentally ill.
```

Figure 2A

Example 1 continued

```
SS 4 /C?
USER:
central nervous system diseases (px)

PROG:
SS (4) PSTG (23099)

SS 5 /C?
USER:
1 and 4

PROG:
SS (5) PSTG (25)

SS 6 /C?
USER:
prt ti 5

PROG:

1
TI  - Advising parents of severely atypical children.

2
TI  - The family loved Sammy but hated each other.

3
TI  - [There once was a parkinsonian patient and ... his spouse]

4
TI  - All we could do was help him live with dignity.

5
TI  - Standing by her man.
```

Figure 2B

Example 2: Sexuality and the handicapped

```
SS 1 /C?
USER:
exp sex

PROG:
SS (1) PSTG (811)

SS 2 /C?
USER:
exp sex behavior

PROG:
SS (2) PSTG (1900)

SS 3 /C?
USER:
(tw) sexuality

PROG:
SS (3) PSTG (180)

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

PROG:
SS (4) PSTG (2511)

SS 5 /C?
USER:
exp m1.289                [This is the Tree Number for HANDICAPPED]

PROG:
SS (5) PSTG (692)

SS 6 /C?
USER:
4 and 5

PROG:
SS (6) PSTG (10)

SS 7 /C?
USER:
prt ti
```

Figure 3A

Example 2 continued

```
PROG:

1
TI  - Occupational therapy treatment goals for adults with
      developmental disabilities.

2
TI  - Sexuality counseling for adults with disabilities: a module for
      an occupational therapy curriculum.

3
TI  - [Scholarship report from Scandinavian symposium on sexology and
      handicap, August 23-25 1985]

4
TI  - Physical disability in 1986 and beyond. A report of the Royal
      College of Physicians.

5
TI  - Social integration of the physically disabled in Barbados.

6
TI  - Redefining sexuality from women's own experiences.

7
TI  - Retaining the purpose of disabled units as places to live.

8
TI  - Sexuality and the disabled: apathy on the campus.

9
TI  - Sexual habilitation of youngsters with chronic illness or
      disabling conditions.

10
TI  - Sexuality in cancer patients.
```

Figure 3B

Example 2 continued

```
SS 7 /C?
USER:
exp coronary disease

PROG:
SS (7) PSTG (10026)

SS 8 /C?
USER:
4 and 7

PROG:
SS (8) PSTG (9)

SS 9 /C?
USER:
prt ti

PROG:

1
TI  - [Sexual functions of men with a history of myocardial infarct
      during rehabilitation]

2
TI  - Sexuality in coronary artery disease. A problem-oriented
      approach.

3
TI  - [Determinants of psychological, sexual and work readjustment
      after myocardial infarct]

4
TI  - [Acute myocardial infarction and sex behavior]

5
TI  - [Unexpected natural death during sexual activity]

6
TI  - Life adaptation after percutaneous transluminal coronary
      angioplasty and coronary artery bypass grafting.

7
TI  - Myocardial infarction and advice on sexual activity.

8
TI  - [Sexual behavior in coronary patients]

9
TI  - Cardiac adaptations to chronic exercise.
```

Figure 3C

Serials Update

INDEXED TITLES UPDATE, JANUARY 1987

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, DECEMBER 1986

INI JOURNAL OF NURSING QUALITY ASSURANCE
J NURS QUAL ASSUR
1N1,NOV 1986--
ASPEN PUBLISHERS
FREDERICK MD UNITED STATES
INDEXING BEGAN WITH V1N1,1986.
ON ORDER 0889-4647
SR0058611 JC: HQP

HLI JOURNAL OF RURAL HEALTH
J RURAL HEALTH
1N1,JAN 1985--
AMERICAN RURAL HEALTH ASSOCIATION
STATESBORO GA UNITED STATES
CALLED ALSO: JRH. CONTINUES: AMERICAN JOURNAL OF RURAL HEALTH. OFFICIAL PUBLICATION OF THE AMERICAN RURAL HEALTH ASSOCIATION AND THE NATIONAL RURAL HEALTH CARE ASSOCIATION.
INDEXING BEGAN WITH V2N1,JAN 1986.
W1 JO871N
SR0053627 JC: JX4

INI MIDWIFERY
MIDWIFERY
1N1,SPRING 1985--
CHURCHILL LIVINGSTONE
EDINBURGH SCOTLAND
INDEXING BEGAN WITH V2N1,MAR 1986.
W1 MI331T 0266-6138
SR0052328 JC: MWF

TITLE CHANGES, DECEMBER 1986

IM ACTA BIOCHIMICA ET BIOPHYSICA HUNGARICA
ACTA BIOCHIM BIOPHYS HUNG
21N1-2,1986--
AKADEMIAI KIADO
BUDAPEST HUNGARY
CONTINUES: ACTA BIOCHIMICA ET BIOPHYSICA ACADEMIAE SCIENTIARUM HUNGARICAE.
IN PROCESS
SR0058574 JC: OBS

IDL CINCINNATI DENTAL SOCIETY BULLETIN
CINCINNATI DENT SOC BULL
48N1,JAN 1979--
CINCINNATI DENTAL SOCIETY
CINCINNATI OH UNITED STATES
CONTINUES: BULLETIN / CINCINNATI DENTAL SOCIETY.
IN PROCESS
SR0058625 JC: DBC

INI HOLISTIC NURSING PRACTICE
HLI
HOLIST NURS PRACT
1N1,NOV 1986--
ASPEN
FREDERICK MD UNITED STATES
SUPERSEDES: TOPICS IN CLINICAL NURSING.
INDEXING BEGAN WITH V1N1,1986.
ON ORDER 0887-9311
SR0058474 JC: HNP

IM PSYCHOPHARMACOLOGY SERIES
PSYCHOPHARMACOL SER
3,1987--
SPRINGER VERLAG
BERLIN GERMANY, WEST
CONTINUES: PSYCHOPHARMACOLOGY. SUPPLEMENT
ON ORDER
SR0058549 JC: PST

IM RENAL FAILURE
REN FAIL
10N1,1987--
MARCEL DEKKER JOURNALS
NEW YORK UNITED STATES
CONTINUES: UREMIA INVESTIGATION.
IN PROCESS 0886-022X
SR0057407 JC: RCG

TITLES NO LONGER INDEXED AS OF DECEMBER 1986

IM ADVANCES IN INORGANIC BIOCHEMISTRY
ADV INORG BIOCHEM
1,197?-6,1984?
ELSEVIER/NORTH-HOLLAND
NEW YORK UNITED STATES
SUPPLEMENT TO INORGANIC BIOCHEMISTRY
INDEXING BEGAN WITH V5,1983.
W1 AD648L 0190-0218
A14240000 JC: 2NF

IM CURRENT PSYCHIATRIC THERAPIES
CURR PSYCHIATR THER
1,1961-23,1986?
GRUNE AND STRATTON
NEW YORK UNITED STATES
SUPERSEDES PROGRESS IN PSYCHOTHERAPY.
PUBLICATION SUSPENDED 1984-85.
W1 CU807 0070-2080
C57100000 JC: DVU

HLI GRANTSMANSHIP CENTER NEWS
GRANTSMANSHIP CENT NEWS
N1,AUG 1973-13N3,MAY-JUN 1985
GRANTSMANSHIP CENTER
LOS ANGELES UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
AHA
G11340000 JC: G2M

HLI HPN. HOSPITAL PURCHASING NEWS
HPN HOSP PURCH NEWS
5N9,SEP 1981--
MCKNIGHT MEDICAL COMMUNICATIONS
NORTHFIELD IL UNITED STATES
CONTINUES PURCHASING ADMINISTRATION. THIS
TITLE IS NOT IN THE NLM COLLECTION.
INDEXING CEASED WITH V10N12,DEC 1986.
AHA 0279-4799
H21190000 JC: G3D

IM INTERNATIONAL JOURNAL OF PSYCHOANALYTIC PSYCHOTHERAPY
INT J PSYCHOANAL PSYCHOTHER
1, 1972-11,1985/1986
JASON ARONSON
NEW YORK UNITED STATES
ABSORBED INTERNATIONAL JOURNAL OF CHILD
PSYCHOTHERAPY AND INTERNATIONAL JOURNAL OF
PSYCHIATRY JAN. 1974
W1 IN777D 0091-0600
I27840000 JC: GSP

IM JOURNAL OF MEDICAL ENTOMOLOGY. SUPPLEMENT
J MED ENTOMOL [SUPPL]
1,MAY 1,1976-4,1983
ALLEN PRESS
LAWRENCE KS UNITED STATES
INDEXING BEGAN WITH SUPPLEMENT 1, MAY,1976
W1 JO75EA 0146-6631
J28910000 JC: J1C

IM JOURNAL DE PHARMACOLOGIE
J PHARMACOL
1,1970-17N4,DEC 1986
MASSON ET CIE
PARIS FRANCE
INDEXING BEGAN WITH V.11,N.1,JAN-MAR 1980.
W1 JO328U 0021-793X
J34560000 JC: K8C

HLI MEDICAL PRODUCTS SALES
MED PROD SALES
12N5,MAY 1981--
MCKNIGHT MEDICAL COMMUNICATIONS
NORTHFIELD IL UNITED STATES
CONTINUES: MPS. MEDICAL PRODUCTS SALESMAN.
INDEXING CEASED WITH V17N12,DEC 1986.
W1 ME4173 0279-4802
M16630000 JC: NMG

IM OBSTETRICS AND GYNECOLOGY ANNUAL
OBSTET GYNECOL ANNU
1,1972-14,1985
APPLETON CENTURY CROFTS
NEW YORK UNITED STATES
W1 OB49 0091-3332
000900000 JC: OCC

HLI PATIENT EDUCATION NEWSLETTER
PATIENT EDUC NEWSL
4N6,DEC 1981-8N6,DEC 1985
DEPARTMENT OF FAMILY PRACTICE, UNIVERSITY OF ALABAMA
BIRMINGHAM AL UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
CONTINUES: PHYSICIANS PATIENT EDUCATION NEWSLETTER, WHICH IS NOT IN THE NLM COLLECTION. ABSORBED BY: PATIENT EDUCATION AND COUNSELING.
INDEXING BEGAN WITH V6,1983.
AHA 0278-8209
P05230000 JC: PAI

IM PROCEEDINGS OF THE ANNUAL SYMPOSIUM OF THE EUGENICS SOCIETY
PROC ANNU SYMP EUGEN SOC
15,1978-19,1983
ACADEMIC PRESS
NEW YORK UNITED STATES
PROCEEDINGS OF THE 8TH-14TH SYMPOSIA CATALOGED SEPARATELY AT NLM.
W3 EU36
P30920000 JC: PRI

POP PUBLIC ADMINISTRATION REVIEW
HLI
PUBLIC ADM REV
1,1940--
AMERICAN SOCIETY FOR PUBLIC ADMINISTRATION
WASHINGTON UNITED STATES
INDEXING FOR HLI CEASED WITH V45N6,NOV-DEC 1985.
W1 PU101K 0033-3352
P56600000 JC: QIN

HLI REPORT - COMMISSION ON ACCREDITATION OF REHABILITATION FACILITIES
REP COMM ACCREDIT REHABIL FACIL
JUN,1968--
COMMISSION ON ACCREDITATION OF REHABILITATION FACILITIES
CHICAGO UNITED STATES
INDEXING CEASED WITH SEP 1984 ISSUE.
W1 RE209AN 0045-7590
R14400000 JC: RB7

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES, DECEMBER 1986

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH and POPLINE are listed in the "INDEXED TITLES UPDATE" section. 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, please contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ACTA CHIRURGICA MEDITERRANEA
1985--
EDIZIONI A. CARBONE
PALERMO ITALY
CONTINUES IN PART ARCHIVIO SICILIANO DI MEDICINA E CHIRURGIA.
IN PROCESS
SR0058648
EDIZIONI A. CARBONE,VIA 6,DAITA 29,90139 PALERMO,ITALY

ACTA MEDICA MEDITERRANEA
1985--
EDIZIONI A. CARBONE
PALERMO ITALY
CONTINUES IN PART ARCHIVIO SICILIANO DI MEDICINA E CHIRURGIA
IN PROCESS
SR0058676
EDIZIONI A. CARBONE, VIA 6, DAITA 29, 90139 PALERMO, ITALY

AD NURSE
1N1,JAN 1986--
DATA DESIGN INCORPORATED
FRANKSVILLE WI UNITED STATES
ON ORDER
SR0058572
AD NURSE,DATA DESIGN INC.,2901 OAKHURST LA.,FRANKSVILLE WI 53126

ADVANCES IN CLINICAL REHABILITATION
1,1987--
SPRINGER
NEW YORK UNITED STATES
ON ORDER
SR0058623 $36.95
SPRINGER PUBLISHING COMPANY,536 BROADWAY,NEW YORK NY 10012

AIDS AND PUBLIC POLICY JOURNAL
1N1,JUL 1986--
UNIVERSITY PUBLISHING GROUP
FREDERICK MD UNITED STATES
ON ORDER
SR0058677
UNIVERSITY PUBLISHING GROUP,107 EAST CHURCH STREET,FREDERICK MD 21701

ARCHIVES OF PSYCHIATRIC NURSING
1,1987--
GRUNE AND STRATTON
DULUTH MN UNITED STATES
ON ORDER
SR0058650 $39.00

BIOCHEMICAL ARCHIVES
1N1,FEB 1985--
MBR PRESS
KENYON MN UNITED STATES
THE INTERNATIONAL JOURNAL FOR RAPID PUBLICATION OF COMMUNICATIONS IN PURE AND APPLIED BIOCHEMISTRY.
ON ORDER
SR0058593 $50.00
M.B.R.PRESS,BOX 111,KENYON MN 55946-0111

BIOFEEDBACK SOCIETY OF AMERICA ... ANNUAL MEETING
14TH,1983--
BIOFEEDBACK SOCIETY OF AMERICA
WHEAT RIDGE CO UNITED STATES
CONTINUES: PROCEEDINGS OF THE BIOFEEDBACK SOCIETY OF AMERICA ... ANNUAL MEETING.
IN PROCESS
SR0058584
BIOFEEDBACK SOCIETY OF AMERICA,10200 WEST 44TH AVE. #304,WHEAT RIDGE CO 80033

BIOGRAPHICAL DIRECTORY / AMERICAN PSYCHIATRIC ASSOCIATION
1983--
AMERICAN PSYCHIATRIC ASSOCIATION
WASHINGTON UNITED STATES
CONTINUES: BIOGRAPHICAL DIRECTORY OF FELLOWS AND MEMBERS OF THE AMERICAN PSYCHIATRIC ASSOCIATION.
IN PROCESS
SR0058670
AMERICAN PSYCHIATRIC ASSOCIATION,1400 K ST. NW,WASHINGTON DC 20005

BIOPROCESS ENGINEERING
1N1,1984--
U.S. BUREAU OF PHARMACEUTICAL RESEARCH
TAMPA FL UNITED STATES
OFFICAL JOURNAL OF THE BIOPROCESS ENGINEERING SOCIETY.
ON ORDER
SR0058594
748 BROADWAY, SUITE 100, DUNEDIN FL 33528

BLICKPUNKT SCHMERZ
1986 N1?--
PHARMA-VERLAGS PHS
RUHPOLDING GERMANY, WEST
IN PROCESS
SR0058668
PHARMA-VERLAGS PHS,DIENSTLEISTUNGS-, HANDELS-GMBH,GUNEZRHAINER WEG 4,D-8222 RUHPOLDING,WEST GERMANY

CAMPYLOBACTER
(1ST),1982--
PUBLIC HEALTH LABORATORY SERVICE
LONDON ENGLAND
PUBLISHER VARIES: (1ST), 1982 PUBLISHED BY MTP PRESS LIMITED; 2- 1983- PUBLISHED BY PUBLIC HEALTH LABORATORY SERVICE.
IN PROCESS
SR0058568
PUBLIC HEALTH LABORATORY SERVICE,61 COLINADE AVENUE,LONDON NW9 5DF,ENGLAND

CANCER JOURNAL
1N1,MAY 1986?--
ASSOCIATION POUR LE DEVELOPPEMENT DE LA COMMUNICATION CANCEROLOGIQUE (A.D.C.C.)
VILLEJUIF FRANCE
IN PROCESS
SR0058614
THE CANCER JOURNAL,BP 8,94802 VILLEJUIF,FRANCE

CARDIOLOGIE
1,1986--
STEPHANE BATARD
PARIS FRANCE
ON ORDER
SR0058652 $29.00
STEPHANE BATARD,21 RUE SAINT-FIACRE,75002 PARIS,FRANCE

CLINICAL ASPECTS OF AUTOIMMUNITY
1N1,1986--
TRANSMEDICA
NEW YORK UNITED STATES
ON ORDER
SR0058573

CLINICAL HEMOSTASIS REVIEW
1N1,JAN 1987--
CLINICAL HEMOSTASIS RESOURCES
DENVER CO UNITED STATES
IN PROCESS
SR0058597 $36.00
CLINCAL HEMOSTASIS REVIEW,800 CLERMONT STREET,DENVER CO 80220

CLINICAL NEUROCHEMISTRY
1,1986--
ACADEMIC PRESS
LONDON ENGLAND
ON ORDER
SR0058681
ACADEMIC PRESS INC.,ORLANDO FL 32887

DENTISTS MEDICAL DIGEST
1,1979?-
DMD INC
LOCUST VALLEY NY UNITED STATES
IN PROCESS
SR0058627
DMD INC.,603 BAYVILLE ROAD,P.O. BOX 402,LOCUST VALLEY NY 11560

DIRECTIONS IN APPLIED NUTRITION
1N1,NOV 1986--
ASPEN
ROCKVILLE MD UNITED STATES
ON ORDER
SR0058626 $75.00
ASPEN PUBLICATION,7201 MCKINNEY CIRCLE,FREDERICK MD 21701

DIRECTORY OF PRIVATE HOSPITALS AND HEALTH SERVICES
1985/86--
LONGMANS
LONDON ENGLAND
ON ORDER
SR0058550

DRUG ABUSE REPORT
MAY 1986--
MANISSES COMMUNICAIONS GROUP
PROVIDENCE RI UNITED STATES
IN PROCESS
SR0058638 $98.00
MANISSES COMMUNICATIONS GROUP,P.O. BOX 3357,WAYLAND SQUARE,PROVIDENCE RI 02906

GEDRAG EN GEZONDHEID
14N1,APR 1986--
STICHTING GAWEIN
NIJMEGEN NETHERLANDS
CONTINUES: GEDRAG, TIJDSCHRIFT VOOR PSYCHOLOGIE.
IN PROCESS
SR0058641
GEDRAG EN GEZONDHEID,POSTBUS 9104,6500 HE NIJMEGEN,NETHERLANDS

GERIATRIC NURSING AND HOME CARE
6,1986?--
BAILLIERE TINDALL
LONDON ENGLAND
CONTINUES: GERIATRIC NURSING.
IN PROCESS
SR0058656

HAZARDOUS CHEMICAL INFORMATION ANNUAL
1,1987?--
VNR INFORMATION SERVICES
NEW YORK UNITED STATES
ON ORDER
SR0058624 $69.95
VNR INFORMATION SERVICES,114 FIFTH AVENUE,NEW YORK NY 10003

IJI HOGAKU SOSHO
1,1986--
NIHON HYORONSHO
TOKYO JAPAN
IN PROCESS
SR0058671

INTERNATIONAL WHOS WHO IN MEDICINE
1986--
MELROSE PRESS
CAMBRIDGESHIRE ENGLAND
ON ORDER
SR0058642 $150.00
MELROSE PRESS LIMITED,3 REGAL LANE,SOHAM ELY CAMBRIDGESHIRE CB7 5BA,ENGLAND

JAHRBUCH DER RADIOLOGIE
1986--
WISSENSCHAFTLICHE VERLAGSGESELLSCHAFT REGENSBERG UND BIERMANN
MUNSTER GERMANY, WEST
ON ORDER
SR0058636

JAPANESE JOURNAL OF ERGONOMICS/HUMAN FACTORS
1,1987--
VNU PRESS
UTRECHT NETHERLANDS
OFFICIAL JOURNAL OF THE JAPAN ERGONOMICS RESEARCH SOCIETY.
ON ORDER
SR0058580 $148.00
DISTRIBUTED BY:PROOST AND BRANDT,STRIJKVIERTEL 63,3454 PK DE MEERN,NETHERLANDS

JOURNAL OF BIOMATERIALS SCIENCE
1,1987--
VNU PRESS
UTRECHT NETHERLANDS
ON ORDER
SR0058581 $148.00
DISTRIBUTED BY: PROOST AND BRANDT,STRIJKVIERTEL 63,3454 PK DE MEERN,NETHERLANDS

JOURNAL OF CANCER PROGRAM MANAGEMENT
1N1,AUG 1986--
ASSOCIATION OF COMMUNITY CANCER CENTERS
ROCKVILLE MD UNITED STATES
VOL. 1 NO. 1 IS CALLED PREMIERE ISSUE.
ON ORDER
SR0058608
ASSOCIATION OF COMMUNITY CANCER CENTERS EXECUTIVE OFFICE,11600 NEBEL STREET,SUITE 201,ROCKVILLE MD 20852

JOURNAL OF CLINICAL PRACTICE IN SEXUALITY
1N1,1985?--
GORDON L. DEAL
EAST BRUNSWICK NJ UNITED STATES
ON ORDER
SR0058644
GORDON L. DEAL INC.,3 BUNKER HILL RUN,EAST BRUNSWICK NJ 08816

JOURNAL OF COGNITIVE PSYCHOTHERAPY
1,1987--
SPRINGER
NEW YORK UNITED STATES
ON ORDER
SR0058639 $48.00
SPRINGER PUBLISHING COMPANY,536 BROADWAY, NEW YORK NY 10012

JOURNAL OF MANAGEMENT IN MEDICINE
1N1,1986--
HENRY STEWART PUBLICATIONS
LONDON ENGLAND
ON ORDER
SR0058591
HENRY STEWART PUBLICATIONS,88 BAKER ST.,LONDON W1M 1DL,ENGLAND

JOURNAL OF NEUROLOGIC REHABILITATION
1,1987--
DEMOS
NEW YORK UNITED STATES
ON ORDER
SR0058664 $135.00
DEMOS PUBLICATIONS,156 FIFTH AVENUE SUITE 1018, NEW YORK NY 10010

JOURNAL OF PEDIATRIC HEALTH CARE
1,1987--
MOSBY
ST LOUIS UNITED STATES
ON ORDER
SR0058600 $34.00

JOURNEE DE LA FEDERATION NATIONALE DES COLLEGES DE GYNECOLOGIE MEDICALE
2ND,1985--
FEDERATION NATIONALE DES COLLEGES DE GYNECOLOGIE MEDICALE
PARIS FRANCE
1983 JOURNEE PUBLISHED WITH TITLE: JOURNEE NATIONALE DES COLLEGES DE GYNECOLOGIE MEDICALE AND CATALOGED SEPARATELY IN NLM.
IN PROCESS
SR0058587
SIEGE SOCIAL: DR SERFATY,SECRETAIRE-GENERAL HOPITAL ST-LOUIS,40 RUE BICHAT,PARIS,FRANCE

LIBROS DE MEXICO
CENTRO DE PROMOCION DEL LIBRO MEXICANO
MEXICO MEXICO
ON ORDER
SR0058602 $10.00
CENTRO DE PROMOCION DEL LIBRO MEXICANO,ORGANISMO DE LA CAMARA NACIONAL DE LA INDUSTRIA,HOLANDA 13,C.P.04120,MEXICO,D.F.

MASTERS IN CARDIOLOGY
1,1983?--
CPC COMMUNICATIONS
GREENWICH CT UNITED STATES
ON ORDER
SR0058674
CPC COMMUNICATIONS,BOX 4010,GREENWICH CT 06830

MEASUREMENT IN MEDICINE SERIES
1,1986--
CROOM HELM
LONDON ENGLAND
IN PROCESS
SR0058554 $85.00
CROOM HELM LTD.,PROVIDENCE HOUSE,BURRELL ROW,BECKENHAM KENT,BR3 1AT,ENGLAND

MEDITSINSKII REFERATIVNYI ZHURNAL. RAZDEL IX, NEVROPATOLOGIIA, NEIROKHIRURGIIA, REFLEKSOTERAPIIA
N1,1986--
VNIIMI
MOSKVA USSR
UNCATALOGED SERIAL RECORD. CONTINUES: MEDITSINSKII REFERATIVNYI ZHURNAL. RAZDEL IX, NEVROPATOLOGIIA, NEIROKHIRURGIIA.
BIBLIOGRAPHIC DATA TAKEN FROM NO.1 1986.
ZW 1 M4915
SR0058561

MENSAJE
1N1,1986--
FUNDACION DR. ESTEVEZ Y EL CENTRO ARGENTINO DE INFORMACION Y EDUCACION ONCOLOGIA
BUENOS AIRES ARGENTINA
IN PROCESS
SR0058578
FUNDACION DR. ESTEVEZ Y EL CENTRO ARGENTINO DE INFORMACION Y EDUCACION ONCOLOGICA,SARMIENTO 212 4 PISO A,1041 BUENOS AIRES ARGENTINA

NEPHROLOGY TODAY SERIES
1,1986--
FIELD, RICH AND ASSOCIATES
CHICAGO UNITED STATES
IN PROCESS
SR0058558

NEUROTRANSMITTER, SEIZURES, AND EPILEPSY
1,1981--
RAVEN
NEW YORK UNITED STATES
IN PROCESS
SR0058666

NEW JOURNAL OF CHEMISTRY
11,1987?--
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, GAUTHIER-VILLARS
PARIS FRANCE
CONTINUES: NOUVELLE JOURNAL DE CHIMIE.
ON ORDER
SR0058540

NEW POLYMERIC MATERIALS
1,1987--
VNU PRESS
UTRECHT NETHERLANDS
ON ORDER
SR0058582
DISTRIBUTED BY: PROOST AND BRANDT,STRIJKVIERTEL 63,3454 PK DE MEERN,NETHERLANDS

PIGMENT CELL RESEARCH
1,1987--
ALAN R. LISS
NEW YORK UNITED STATES
ON ORDER
SR0058643 $150.00
ALAN R. LISS, 41 EAST 11TH STREET,NEW YORK NY 10003

PLANT PHYSIOLOGY AND BIOCHEMISTRY
1987?--
GAUTHIER VILLARS
PARIS FRANCE
CONTINUES: PHYSIOLOGIE VEGETALE.
ON ORDER
SR0058541

PROGRESS IN CARDIOVASCULAR NURSING
1N1,OCT-DEC 1986--
J.B. LIPPINCOTT
HAGERSTOWN MD UNITED STATES
IN PROCESS
SR0058619
J.B.LIPPINCOTT COMPANY, 2350 VIRGINIA AVENUE, HAGERSTOWN MD 21740

PSYCHIATRIE ET PSYCHOBIOLOGIE
1,1986--
PARIS FRANCE
ON ORDER
SR0058588
O. DASSONVILLE,5 RUE RUBENS,75013 PARIS,FRANCE

REVIEW OF RESEARCH IN NURSING EDUCATION
1,1986--
NATIONAL LEAGUE FOR NURSING
NEW YORK UNITED STATES
IN PROCESS
SR0058637
NATIONAL LEAGUE FOR NURSING,10 COLUMBUS CIRCLE,NEW YORK NY 10019

RHEUMATOLOGY FORUM
1,1985--
MEDICAL EDUCATION SERVICES
OXFORD ENGLAND
ON ORDER
SR0058660

SCHRIFTENREIHE BERUFSVERBAND DEUTSCHER PSYCHOLOGEN
1985--
DEUTSCHER PSYCHOLOGEN VERLAG
BONN GERMANY, WEST
IN PROCESS
SR0058662
BERUFSVERBAND DEUTSCHER PSYCHOLOGEN E V.,HEILSBACHSTRASSE 22,5300 BONN WEST GERMANY

SCHRIFTENREIHE DES BUNDESMINISTERS FUR JUGEND, FAMILIE, FRAUEN UND GESUNDHEIT
N167?,1986--
KOHLHAMMER
BERLIN GERMANY, WEST
CONTINUES: SCHRIFTENREIHE DES BUNDESMINISTERS FUR JUGEND, FAMILIE UND GESUNDHEIT.
IN PROCESS
SR0058579 $20.00
KOHLHAMMER. POSTFACH 800430, 7000 STUTTGART 80, WEST GERMANY

SURGICAL ROUNDS IN ORTHOPAEDIC SURGERY
1,1987--
ROMINE PIERSON
PORT WASHINGTON NY UNITED STATES
ON ORDER
SR0058651 $39.00
ROMAINE PIERSON PUBLISHERS,80 SHORE ROAD,PORT WASHINGTON NY 11050

APPENDIX A

MEDLARS PRICING SCHEDULE

NLM DOMESTIC AND FOREIGN CHARGES AND MINIMUMS FOR ONLINE SERVICES
AND LEASING TAPE COPIES OF DATABASES
EFFECTIVE JANUARY 1, 1987

	Online Charges		Leased Tape Charges	
Database	Domestic 1/	Foreign 2/	Domestic 3/	Foreign 4/
AVLINE	Online Algorithm	No minimum; Usage charges only	5/Base file: (up to current year) $1,000 Current year: $1,000/yr; updated monthly No usage charges	5/Base file: (up to current year) $1,250 Current year: $1,250/yr; updated monthly No usage charges
BIOETHICS	Online Algorithm	$1,000/yr minimum	$1,000/yr minimum	$1,000/yr minimum
CANCERLIT	Online Algorithm	$3,000/yr minimum	$3,000/yr minimum	$3,000/yr minimum
CANCERPROJ	Online Algorithm	$1,000/yr minimum	$1,000/yr minimum	$1,000/yr minimum
CATLINE	Online Algorithm	No minimum; usage charges only	5/Base file: (1965 up to the current year) $3,000 Current year: $4,000/yr; updated weekly or Current year: $2,000/yr; updated monthly Retrospective file: (Pre-1965) $3,000 No usage charges	5/Base file: (1965 up to the current year) $3,750 Current year: $5,000/yr; updated weekly or Current year: $2,500/yr; updated monthly Retrospective file: (Pre-1965) $3,750 No usage charges

revised January 1987

NLM DOMESTIC AND FOREIGN CHARGES EFFECTIVE JANUARY 1, 1987

Database	Online Charges		Leased Tape Charges	
	Domestic 1/	Foreign 2/	Domestic 3/	Foreign 4/
CHEMICAL CARCINOGENESIS RESEARCH INFORMATION SYSTEM (CCRIS)	8/Online Algorithm	9/$2,500/yr minimum	Not yet available	Not yet available
CHEMLINE	6/Online Algorithm;	7/$1,000/yr minimum	7/$1,000/yr minimum	7/$1,000/yr minimum
CLINPROT	Online Algorithm	$1,000/yr minimum	$1,000/yr minimum	$1,000/yr minimum
DIRLINE	Online Algorithm	$1,000/yr minimum	$1,000/yr minimum	$1,000/yr minimum
HAZARDOUS SUBSTANCES DATA BANK (HSDB)	8/Online Algorithm	9/$2,500/yr minimum	Not yet available	Not yet available
HEALTH PLANNING	Online Algorithm	$3,000/yr minimum	$3,000/yr minimum	$3,000/yr minimum
HISTLINE	Online Algorithm	$1,000/yr minimum	$1,000/yr minimum	$1,000/yr minimum
INFORM	Online algorithm excluding the charge for citations and characters; no offline processing	No minimum or flat rate; online algorithm excluding the charge for citations and characters; no offline processing	Not available	Not available

NLM DOMESTIC AND FOREIGN CHARGES EFFECTIVE JANUARY 1, 1987

Database	Online Charges		Leased Tape Charges	
	Domestic 1/	Foreign 2/	Domestic 3/	Foreign 4/
INTROMED	Online algorithm excluding the charge for citations and characters; no offline processing	No minimum or flat rate; online algorithm excluding the charge for citations and characters; no offline processing	$1,000/yr; No usage charges	$1,250/yr; No usage charges
INTROTOX	8/Online algorithm for connect time only; no offline processing	9,10/No minimum or flat rate; online algorithm for connect time only; no offline processing	Not available	Not available
MEDLEARN	$22/hr prime time; $15/hr non-prime time; no offline processing	11/No minimum; $25/hr prime time; $18/hr non-prime time; no offline processing	Not available	Not available
MEDLINE & BACKFILES	Online Algorithm	$15,000/yr minimum	17/Base file: (1966 up to the current year) $10,000 /yr minimum 17/Current year: $5,000/yr minimum	Base file: (1966 up to the current year) $10,000 /yr minimum Current year: $5,000/yr minimum
MESH VOCABULARY	Online Algorithm	No minimum; Usage charges only	$1,000/yr; Free with MEDLINE; No usage charges	$1,250/yr; Free with MEDLINE; No usage charges
NAME AUTHORITY	Online Algorithm	No minimum; Usage charges only	$1,000/yr; No usage charges	$1,250/yr; No usage charges

NLM DOMESTIC AND FOREIGN CHARGES EFFECTIVE JANUARY 1, 1987

Database	Online Charges		Leased Tape Charges	
	Domestic 1/	Foreign 2/	Domestic 3/	Foreign 4/
PDQ	$22/hr prime time; $15/hr non-prime time; no offline processing	11/$1,000/yr minimum; $25/hr prime time; $18/hr non-prime time; no offline processing	18/Not available from NLM	18/Not available from NLM
POPLINE	Online Algorithm	$2,000/yr minimum	$2,000/yr minimum	$2,000/yr minimum
RTECS	12/Online Algorithm;	13/$1,000/yr minimum;	14/$1,000/yr minimum	15/$1,000/yr minimum
SDILINE	Online Algorithm	No minimum; Usage charges only	$5,000/yr minimum (if leased separately from MEDLINE)	$5,000/yr minimum (if leased separately from MEDLINE)
SERLINE	Online Algorithm	No minimum; Usage charges only	$1,000/yr; No usage charges	$1,250/yr No usage charges
TOXLINE	16/Online Algorithm;	7/$2,500/yr minimum	7/Current file: (1981 through the current year) $2,500/yr minimum Backfiles: (1965-75 and 1976-80) $2,500/yr minimum for each back-file	7/Current file: (1981 through the current year) $2,500/yr minimum Backfiles: (1965-75 and 1976-80) $2,500/yr minimum for each back-file

NOTES: In addition to the above rates the following charges apply to each Domestic and Foreign Online Center: $1 per Offsearch per file: and $1 per Automatic SDI. Automatic SDI searches on the TOXLINE database are $4.00 for domestic users ($1.00 plus $3.00 royalty).

A Tape License Agreement packet is available upon written request to the Associate Director, Library Operations, National Library of Medicine, Bethesda, MD 20894. For a fee of $25.00, a sample tape is also available upon written request in advance of signing a license agreement. In addition, NLM offers a Subset Tape Program; see Note 17.

1/ ELHILL online charges for domestic users are calculated by using an algorithm which includes connect hour charges and charges for search statements, citations, interactions (i.e., carriage returns), computer resources (i.e., disk accesses), and characters transmitted to the user's terminal. Unless otherwise noted, the connect hour charge portion of the algorithm is $7.25/hour prime time and $4.50/hour non-prime time, and the offline print charge is $0.18 per page. Details of the entire algorithm follow these notes.

2/ ELHILL online charges for foreign users are calculated by using an algorithm which includes connect hour charges and charges for search statements, citations, interactions (i.e., carriage returns), computer resources (i.e., disk accesses), and characters transmitted to the user's terminal. Each database, except the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MESH VOCABULARY file, MEDLEARN and the INFORM and INTROMED databases, has a minimum against which usage is charged. Unless otherwise noted, the connect hour charge portion of the algorithm is $10.25/hour prime time and $7.50/hour non-prime time, and the offline print charge is $0.28 per page. Usage over the minimum will be calculated at the rate of the file being accessed. The dollar equivalent of usage over the minimum on one file will be applied to the minimum for the other file(s). Usage on a technical database, the MESH VOCABULARY file, MEDLEARN, INFORM and INTROMED may not be applied to a minimum on another database. Details of the entire algorithm follow these notes.

3/ ELHILL tape charges for domestic users consist of an annual minimum charge for each database except the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MESH VOCABULARY file, MEDLEARN, and INTROMED. Unless otherwise noted, usage charges of $4.00/connect hour and $0.01/offline citation are applied to the annual minimum. (The use charge is $3.00/connect hour between 6:00 p.m. and 6:00 a.m. local time Monday through Friday, and all day Saturday and Sunday. This time period is referred to as tape non-prime time.) Usage over the minimum will be charged the rate of the file being accessed. For institutions or organizations leasing two or more files with a minimum plus usage, the dollar equivalent of usage over the minimum for one file may be applied to the minimum for the other files(s).

An annual flat fee, with no usage charges, will be charged for each of the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and

SERLINE), the MESH VOCABULARY File, and INTROMED. Usage on other leased databases may not be applied to these annual flat rate fees.

Domestic centers providing service to foreign users will be charged at the foreign rate for this portion of their service.

Extra charges are levied for class maintained files or special formats. Prices for files and formats currently available are:

SDILINE GENER FORMAT	$1,000/year
CLASS-MAINTAINED MEDLINE DATA:	
Complete Database Replacement Copies	$3,000/year
Changed Records Only	$1,000/year

Charges for physical tapes and shipping are included in the minimum charges for each database.

4/ Tape charges for foreign users and the portion of foreign use provided by domestic centers consist of an annual minimum charge for each database except the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MESH VOCABULARY file, and INTROMED. Unless otherwise noted, usage charges of $7.00/connect hour and $0.03/offline citation are applied to the annual minimum. (The use charge is $6.00/connect hour between 6:00 p.m. and 6:00 a.m. local time Monday through Friday, and all day Saturday and Sunday. This time is referred to as tape non-prime time.) Usage over the minimum will be charged the rate of the file being accessed. For institutions or organizations leasing two or more files with a minimum plus usage, the dollar equivalent of usage over the minimum for one file may be applied to the minimum for the other file(s).

An annual flat fee, with no usage charges, will be charged for each of the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MESH VOCABULARY File, and INTROMED. Usage on other leased databases may not be applied to these annual flat-rate fees.

Extra charges are levied for class-maintained files or special formats. Prices for files and formats currently available are:

SDILINE GENER FORMAT	$1,000/year
CLASS-MAINTAINED MEDLINE DATA:	
Complete Database Replacement Copies	$3,000/year
Changed Records Only	$1,000/year

Charges for physical tapes and shipping are included in the minimum charges for each database.

5/ Available in ELHILL or MARC version except for weekly updates of the current-year file which is available only in MARC.

6/ CHEMLINE royalty charges of $0.25 per citation and $54.00 per hour of connect time are added to the algorithm. Offline page charges of $1.46 per page include $1.28 per page royalty. Royalty charges are subject to change without advance notice.

7/ CHEMLINE and TOXLINE royalties are not paid to NLM but are negotiated with and paid to file content providers such as CAS, BIOSIS and ASHP.

8/ TOXNET (HSDB, CCRIS & INTROTOX) online charges are calculated for domestic users using an algorithm which includes connect hour charges and charges for search statements, interactions (i.e., carriage returns) and characters created for transmission to the user's terminal (INTROTOX is charged only the connect hour portion.) Unless otherwise noted, the connect hour portion of the algorithm is $60.25/hour prime time and $56.50/hour non-prime time, and the offline print charge is $0.60 per page.

9/ TOXNET (HSDB, CCRIS & INTROTOX) online charges are calculated for foreign users by using an algorithm which includes connect hour charges and charges for search statements, interactions (i.e., carriage returns), and characters created for transmission to the user's terminal (INTROTOX is charged only the connect hour portion). A single minimum of $2,500 will be charged in Fiscal Year 1987 for the HSDB, CCRIS and INTROTOX files. As other files are added to the TOXNET system, individual minimums will be established for each file (e.g., RTECS at $1,000). Unless otherwise noted, the connect hour portion of the algorithm is $63.25/hour prime time and $59.50/hour non-prime time, and the offline print charge is $0.70 per page. Usage over the minimum charges will be calculated at the rate of the file being accessed. The dollar equivalent of usage over the minimum on each of these files (except INTROTOX; see Note 10) may be applied to the minimum for other MEDLARS databases on either ELHILL or TOXNET.

10/ INTROTOX may only be requested if either HAZARDOUS SUBSTANCES DATABANK or CHEMICAL CARCINOGENESIS RESEARCH INFORMATION SYSTEM has been requested. Usage on INTROTOX may not be applied to a minimum on any other MEDLARS database. Online charges for foreign users are $63.25/hour prime time and $59.50/hour non-prime time.

11/ Usage is charged separately, i.e., usage on this file may not be applied to the aggregate minimum charges.

12/ Online algorithm for RTECS for domestic users includes connect charges of $39.00 per hour non-prime time and $42.75 per hour prime time; offline prints are $0.41 per page.

13/ Online algorithm for RTECS for foreign users includes connect charges of $42.00 per hour non-prime time and $45.75 per hour prime time; offline prints are $0.51 per page.

14/ For domestic RTECS tape users, usage charges of $22/connect hour and $0.17/offline citation are applied to the annual minimum. (The use charge is $21/connect hour during tape non-prime time -- see Note 3.)

15/ For foreign RTECS tape users, usage charges of $25/connect hour and $0.19/offline citation are applied to the annual minimum. (The use charge is $24/connect hour during tape non-prime time -- see Note 4.)

16/ TOXLINE royalty charges of $0.15 per citation and $68.60 per hour of connect time are added to the basic online algorithm. Offline page charges of $0.66 per page include $0.48 per page royalty. Royalty charges are subject to change without advance notice.

17/ MEDLINE data is also available under the NLM Subset Program. A subset information packet is available upon request from MEDLARS Management Section, National Library of Medicine, Bethesda, MD 20894. Prices are prorated on the amount of data received and a flat rate option is also available to qualified users. The detailed "Charges for Subsets" is included at the end of this pricing schedule.

18/ Contact the International Cancer Research Data Bank (ICRDB) at the National Cancer Institute (NCI) for information on leasing PDQ on tape.

Charges For Subsets

Subsets are available on magnetic tape from the MEDLINE database and its Backfiles. All charges include a copy of the MESH Vocabulary File if requested.

"Personal Use" Subsets: There is an annual limit of 150,000 citations.

I. Individualized Subsets: annual subscription to the current year and Backfiles -- $1,500/year flat rate. Charges include monthly updates and annual replacement tape(s) for which maintenance and error correction have been performed.

II. Custom Subsets: one-time retrieval from current year and Backfiles -- $500 flat rate; no updates provided.

"Individualized Multiple Use" Subsets: Charges include monthly updates and annual replacement tape(s) for which maintenance and error correction have been performed.

I. Option A: Annual minimum with use charge. (The use charge offsets the annual minimum charge. If the use is a dollar equivalent less than the minimum, the minimum is paid. If the actual use is a dollar equivalent more than the minimum, the dollar equivalent is paid.)

A. Current Year Annual Subscription

1. Annual Minimum Charge is dependent upon the percentage of the current year's MEDLINE data received:

up to 25% file:	$1,250
26% to 50% file:	2,500
51% to 75% file:	3,750
76% to 100% file:	5,000

2. Use charges offset annual minimum: $4 per connect hour during prime time and $3 per hour during non-prime time (6:00 pm to 6:00 am local time Monday through Friday, and Saturday, Sunday, and holidays) PLUS $0.01 for each citation printed offline at the host computer.

B. Backfiles Annual Subscription

1. Annual Minimum Charge is dependent upon the percentage of data from 1966 up to the current year received:

up	to	25% file:	$2,500
26%	to	50% file:	5,000
51%	to	75% file:	7,500
76%	to	100% file:	10,000

2. Use charges offset annual minimum: as described for Current Year Annual Subscription

II. Option B: Flat Rate

Under certain circumstances, a flat rate pricing option is available for an institution/organization which does not vend a database service. In order to qualify for the flat rate, the institution/organization must limit access to either academically affiliated institutions or corporate members of the organization which are located within a "reasonable geographic distance" (usually interpreted to be within the confines of the local region's telephone area code). Alternatively, if the institution/organization does not anticipate having sufficient use to warrant paying the flat rate, it may offset the minimum annual charge by $4 per connect hour with no charges for citations printed offline (as a second option to the annual minimum use charges described in Section I.A.2 above).

A. Current Year Annual Subscription

Charges are not dependent upon the size of the file. There is a $10,000 annual flat rate which includes one academically affiliated institution. An additional annual charge of $1,000 is made for each additional academically affiliated insitution to which service is provided.

B. Backfiles Annual Subscription

Annual flat rate is dependent upon the size of the subset licensed. For MEDLINE data from 1966 up to the current year:

up	to	25% file:	$2,500
26%	to	50% file:	5,000
51%	to	75% file:	7,500
76%	to	100% file:	10,000

CHARGES EFFECTIVE JANUARY 1, 1987

NLM ONLINE PRICING ALGORITHM CHARGES TO DOMESTIC USERS[1]

File	Connect Charge (Per Hour)		Search Statement Charge	Online Citation Charge	Interaction Charge (Carriage Returns)	Computer Resources Disk Accesses (Per 100)		Online Character Charges (Per 1,000)		Average Searcher Charges* (Per Hour)	
	Non-Prime	Prime				Non-Prime	Prime	Non-Prime	Prime	Non-Prime	Prime
ELHILL System											
MEDLINE & Backfiles	$ 4.50	$ 7.25	$.01	$.01	$.01	$.06	$.12	$.08	$.12	$15.00	$22.00
TOXLINE & Backfiles	73.10**	75.85**	.01	.16**	.01	.06	.12	.08	.12	102.00	109.00
CHEMLINE	58.50***	61.25***	.01	.26***	.01	.06	.12	.08	.12	79.00	86.00
RTECS	39.00	42.75	.01	.01	.01	.06	.12	.08	.12	48.00	55.00
INFORM	4.50	7.25	.01	-	.01	.06	.12	-	-	7.00	10.00
INTROMED	4.50	7.25	.01	-	.01	.06	.12	-	-	7.00	10.00
All Other	4.50	7.25	.01	.01	.01	.06	.12	.08	.12	15.00	22.00
MEDLEARN	15.00	22.00	-	-	-	-	-	-	-	15.00	22.00
PDQ	15.00	22.00	-	-	-	-	-	-	-	15.00	22.00
TOXNET System											
HSDB	56.50	60.25	.01	-	.01	-	-	.08	.12	68.00	75.00
CCRIS	56.50	60.25	.01	-	.01	-	-	.08	.12	68.00	75.00
INTROTOX	56.50	60.25	-	-	-	-	-	-	-	56.50	60.25

*Average searcher charges per hour may differ according to computer resources used and citations and characters printed online.

**Includes royalty charges of $68.60 per connect charge and $0.15 per citation charge for TOXLINE and its Backfiles (TOX76 and TOX65). Discount for browsing no longer included in Citation Charge.

***Includes royalty charges of $54.00 per connect charge and $0.25 per citation charge for CHEMLINE. Discount for browsing no longer included in Citation Charge.

NLM OFFLINE CHARGES TO DOMESTIC USERS[1]

Pages	Per Page	
MEDLINE and other databases	$0.18	
TOXLINE, TOXBACK76, TOXBACK65	0.66	(Includes $0.48 royalty charge per page)
CHEMLINE	1.46	(Includes $1.28 royalty charge per page)
TOXNET (HSDB or CCRIS)	0.60	
RTECS	0.41	

Offsearches	Per File	
All databases	$1.00	(Plus page charges)

Automatic SDI Searches	Per Search Each Month	
SDILINE, HEALTH, CATLINE, CANCERLIT, AVLINE, POPLINE	$1.00	(Plus page charges)
TOXLINE	4.00	(Plus page charges: includes $3.00 royalty charge)

Federal, state, and/or local taxes are not included. Terminals and telephone/line charges are the responsibility of the institution or individual accessing MEDLARS. Current prime time is 10:00 am to 5:00 pm Eastern Time, Monday through Friday. All other time is non-prime time.

1/ Notes on NLM Charges to Foreign Users: In general, foreign users under the online pricing algorithm are charged $3.00 extra on the connect charge portion and $0.10 extra per offline page, and are not charged amounts designated as royalties. These royalties are negotiated separately with and paid directly to the database producers and not to NLM by the coordinating online foreign MEDLARS center.

revised 1/87

APPENDIX B

Changes To Tree Annotations: Reprinted from the 1987 Indexing Orientation Packet

PAGE

14 A14 - Stomatognathic System

15 A15 - Hemic and Immune Systems

3. Avoid IMMUNE SYSTEM as too general: prefer specifics.

(Renumber starting at 3:)

(6 to become 7:)

7. See E1 for HEMATOLOGIC TESTS concerned with blood cells and IMMUNOLOGIC TESTS. See E5 for IMMUNOLOGIC TECHNICS.

21 B5 - Algae and Fungi

23 Beginning at this page and continuing through 51, make the subheading /ethnology available at the tree top reading

ethnol - EH

23 4. Avoid BACTERIAL INFECTIONS, RICKETTSIA INFECTIONS and MYCOSES (fungal infections) as too general; prefer specifics.

27
ANAPLASIA
CELL TRANSFORMATION, NEOPLASTIC
COCARCINOGENESIS
NEOPLASM INVASIVENESS
NEOPLASM METASTASIS
  LYMPHATIC METASTASIS
NEOPLASM RECURRENCE, LOCAL
NEOPLASM REGRESSION, SPONTANEOUS
NEOPLASM SEEDING
NEOPLASMS, MULTIPLE PRIMARY
NEOPLASMS, RADIATION-INDUCED
  LEUKEMIA, RADIATION-INDUCED
NEOPLASMS, UNKNOWN PRIMARY
NEOPLASTIC SYNDROMES, HEREDITARY
PRECANCEROUS CONDITIONS

46 (As second paragraph to 5:)

OPPORTUNISTIC INFECTIONS (C1, C2, C3), common in immunosuppression, is available.

48 16. The specialty for WOUNDS AND INJURIES is TRAUMATOLOGY.

76 D23 - Neuroregulators and Autocoid Blockaders

80 (Disregard present reading at 5 and use this:)

5. IMMUNOLOGIC TESTS, a very large treeing including SERODIAGNOSIS and its indentions, can be supplemented by IMMUNOLOGIC TECHNICS and its specifics in E5.

84 8. In addition to IMMUNOLOGIC TECHNICS and its indentions, consider IMMUNOLOGIC TESTS and SERODIAGNOSIS with all their indentions in E1. See also 16 and 17 on the next page. Consider also IMMUNITY and its indentions in G4.

(substitute this for the present 11:)

11. In addition to DRUG ADMINISTRATION ROUTE here, consider also DOSAGE FORMS in D26.

91 At the tree top make the subheading /ethnology available as

ethnol - EH

94 4. Note in addition to all the indentions under NEUROSCIENCES here, there are NEURORADIOGRAPHY (E1) and NEUROSURGERY (E4, G2). All are used as specialties or disciplines or for general articles only. They should not be confused with NERVOUS SYSTEM with corresponding subheadings.

5. Most terms here are IM.

100 6. In addition to ENZYME ACTIVATION and ENZYME STABILITY here, consider ENZYME INDUCTION (G5) and ENZYME REPRESSION (G5).

106 2. Note that RECEPTORS, DRUG and RECEPTORS, ENDOGENOUS SUBSTANCES are also in D12 and G6. As G6 terms they may take the subheading /drug effects. They are usually IM.

112 (substitute this as 13 and renumber downward:)

13. In addition to OILS here, there is a slightly different treeing in D10 under LIPIDS.

116 (add this as the second paragraph after 3:)

AGED, 80 AND OVER, whether IM or NIM, will always carry the Check Tag AGED.

(substitute this for the present second paragraph:)

When viewed as a social sociological, psychological, political, cultural or economic entity, each group here may be IM. INFANT, NEWBORN and AGED, 80 AND OVER are usually IM.

118

ADMIT DEP
ANESTH DEP
EDUC DEP
MED REC DEP
NUCLEAR MED DEP
OBSTET GYNECOL DEP
OCCUP THER DEP
PATHOL DEP
PHYS THER DEP
PSYCHIATR DEP
RADIOL DEP
RESP THER DEP
SOCIAL WORK DEP
SURG DEP
UROL DEP

120

ADMIT DEP
ANESTH DEP
EDUC DEP
MED REC DEP
NUCLEAR MED DEP
OBSTET GYNECOL DEP
OCCUP THER DEP
PATHOL DEP
PHYS THER DEP
PSYCHIATR DEP
RADIOL DEP
RESP THER DEP
SOCIAL WORK DEP
SURG DEP
UROL DEP

(at 6 substitute this for the last entry:)

PROFESSIONAL REVIEW ORGANIZATIONS PSRO

APPENDIX C

DATE OF ENTRY (DA) RANGES FOR INDEX MEDICUS (IM) YEARS

	IM Year	DA Range	Number of citations
(MED66)	1966 -	651113 through 661101	157,495
	1967 -	661123 through 671129	170,702
	1968 -	671212 through 681111	215,171
	1969 -	681117 through 691119	233,598
	1970 -	691126 through 701112	219,995
(MED71)	1971 -	701117 through 711117	214,378
	1972 -	711130 through 721030	231,610
	1973 -	721108 through 731116	217,751
	1974 -	731130 through 741119	223,693
(MED75)	1975 -	741205 through 751108	224,982
	1976 -	751120 through 761103	278,360
(MED77)	1977 -	761104 through 771031	266,305
	1978 -	771101 through 781027	235,094
	1979 -	781118 through 791026	247,281
(MED80)	1980 -	791027 through 801027	257,948
	1981 -	801028 through 811030	274,888
	1982 -	811031 through 821029	277,688
(MED83)	1983 -	821030 through 831028	300,620
	1984 -	831029 through 841026	298,733
(MEDLINE)	1985 -	841027 through 851025	299,313
	1986 -	851026 through 861024	316,427
	1987 -	861025 through	

These DA ranges and citation totals reflect the citations added to the database, i.e., those published in IM, plus all the Special List citations, during the designated IM year. (Note: An IM year starts in about late October for DA values because of the lead time needed for printing the publication.) Any citation added during an IM year with a year of publication (YR) less than what is covered in the current file (MEDLINE) is later moved to the most recent backfile. MED75, MED77, MED80, and MED83 are backfiles that have received citations based on year of publication and, therefore, have citations with Dates of Entry beyond 761103, 791026, 821029, and 831028 respectively.

MED66 and MED71 are backfiles that received citations based only on Date of Entry and not also year of publication and, therefore, should not contain citations with DA values beyond the upper ranges shown here.

If necessary, DA ranges for a file may be determined by neighboring on (DA) values to find the upper and lower limits. The number of citations in each file are reported on page 2 of every NLM Technical Bulletin. For more information about DA ranges, see the April '83 SEARCH HINT.

[This page continues Section 4.10.2.1.3]

qualifier, a NO POSTINGS message will result because there is no MeSH term COW, although the word does appear as a Text Word in several hundred records. These records would be retrieved by entering the qualified term: COW (TW).

3. Subheadings have been applied to a MeSH heading with the SUBS APPLY command, and no MeSH headings with the specified subheadings have been found:

```
USER:
SUBS APPLY TRENDS
PROG:
SUBHEADINGS ACCEPTED.

SS 3 /C?
USER:
NATIONAL LIBRARY OF MEDICINE (U.S.)
PROG:
NP (NATIONAL LIBRARY OF MEDICINE (U.S.))
```

4. The searcher has used the SUBS APPLY command and neglected to cancel it before entering additional MeSH headings to which the subheadings cannot be applied:

```
SS 1 /C?
USER:
SUBS APPLY ADVERSE EFFECTS, TOXICITY, POISONING
PROG:
SUBHEADINGS ACCEPTED.

SS 1 /C?
USER:
DIAZEPAM
PROG:
SS (1) PSTG (122)

SS 2 /C?                          The user receives NO POSTINGS
USER:                             for the checktag HUMAN because
HUMAN                             the subheadings were not
PROG:                             cancelled before the checktag
NP (HUMAN)                        was entered.
```

If a term which retrieves postings is ANDed in a single search statement with a term for which there are no postings, a NO POSTINGS message will result and no retrieval will be saved:

```
SS 1 /C?
USER:
LIVER NEOPLASMS AND PATASSIUM      (potassium is misspelled)
PROG:
NP (PATASSIUM)
*NONE-

SS 1 /C?
```

11.3.31 REGION (RG)

This element is used to search all locations in a region at once to determine whether a title is held in any location in that region without reference to specific resource libraries. The values are two-digit numbers from 01 to 07.

For example, to search for all English language Index Medicus titles not held in Region 3:

```
SS 5/C?
USER:
IM (AI) AND ENG (LA) AND NOT 03 (RG)
```

11.3.32 REVISION INDICATOR (RI)

A revision indicator may appear on records added or updated after November 30, 1978; it is directly searchable. The field contains a one-character code which indicates the nature of the update transaction and is directly searchable:

A - Title added to file
C - Title ceased publication or has had a title change
T - Form of the name of the serial was changed because the previous form was incorrect.
R - Title is one of the 25,000 retrospective records added to SERLINE from CATLINE. (Most of these titles ceased publication before 1950.)

11.3.33 JOURNAL SUBSET (SB) (for Index Medicus titles only)

Journals indexed in Abridged Index Medicus (AIM) contain an A in this field; M will appear in the records of Priority 1 or 2 Index Medicus titles. An X in this field indicates that the journal is one of the core journals for Cancer. The subset tags are directly searchable in SERLINE, MEDLINE, and the Health Planning and Administration file, and also CANCERLIT for the X value.

11.3.34 SERIES TREATMENT CODE (SM)

With the exception of records for numbered congresses without overall series titles and those entries which have a Call Number of Classed Sep, all entries in SERLINE are for Traced, Classed Together series. Series which are not analyzed (i.e., there is no cataloging of separate issues) carry no value in the SM field. On newer records, the treatment or decision on the series is indicated by a single numeric code listed below:

3 for Traced, Classed Together, Analyzed
4 for Traced, Classed Together, Partially Analyzed
5 for Traced, Classed Together, Supplements Analyzed
9 for Traced, Classed Together, Selectively Analyzed

This field can be searched directly by entering the number followed by (SM).

[This page continues Section 14.4.18]

(6) NIOSH Manual of Analytical Methods, the volume number and page that contain information on the analysis of the reported compound are referenced.

(TW) NIOSH AND MANUAL

(7) EPA Genetic Toxicology Program; evaluates short term mutagenicity studies.

(TW) GENETIC AND TOXICOLOGY

(8) OSHA Medical Records status; indicates that the substance meets one of the three criteria for being classified as a "toxic substance" for purposes of a proposed OSHA rule for access to medical records.

(TW) OSHA AND MEDICAL

The Status field for the vinyl chloride record is given below.

ST - NTP FOURTH ANNUAL REPORT ON CARCINOGENS, 1984
ST - "NIOSH MANUAL OF ANALYTICAL METHODS, 3rd Ed.," see: METHOD 1007
ST - EPA TSCA SECTION 8(e) STATUS REPORT 8EHQ-06980-0345;8EHQ-0982-0457;8EHQ-0378-0104
ST - MEETS CRITERIA FOR PROPOSED OSHA MEDICAL RECORDS RULE FEREAC 347,30420,82

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FEBRUARY 1987
No. 214

The NLM Technical Bulletin

GRATEFUL MED Users
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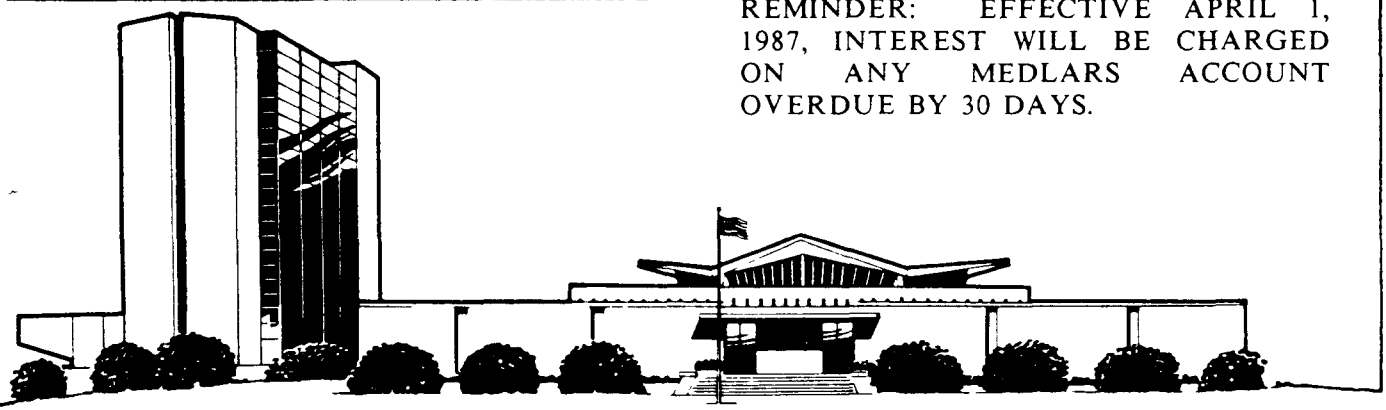
NTIS Invoices - A New Look

MEDLARS users have probably noticed that the monthly invoices have a new look. The National Technical Information Service (NTIS), the National Library of Medicine's billing agent, has reformatted its invoice to assist MEDLARS users in identifying account balances and payments. These changes will aid substantially in resolving account discrepancies, if any, prior to implementation of the interest charges on overdue accounts April 1, 1987.

Users are urged to consult with their internal billing departments about these changes. Users are also encouraged to contact the NTIS Accounting Department to resolve any outstanding questions regarding their accounts prior to April 1, 1987. The telephone number is (703) 487-4770.

The March issue of the *NLM Technical Bulletin* will contain a more detailed article on NTIS interest charges.

REMINDER: EFFECTIVE APRIL 1, 1987, INTEREST WILL BE CHARGED ON ANY MEDLARS ACCOUNT OVERDUE BY 30 DAYS.



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • National Institutes of Health
National Library of Medicine

DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
(ELHILL SYSTEM)				
AVLINE	15,817	THROUGH 1987	19 FEB 87	
BIOETHICS	22,002	JAN 73-1986	07 FEB 87	8702(EM)
CANCERLIT	568,126	JAN 63-FEB 87	09 FEB 87	8702(EM)
CANCERPROJ	10,183	THROUGH 1986	05 JUL 86	8607(EM)
CATLINE	612,754	THROUGH 1987	19 FEB 87	
CHEMLINE	729,667		19 FEB 87	8702(EM)
CLINPROT	5,882		23 FEB 87	8702(EM)
DIRLINE	15,557		07 FEB 87	
HEALTH	369,720	JAN 75-MAR 87	07 FEB 87	8703(EM)
HISTLINE	75,825		07 FEB 87	8702(EM)
MEDLINE	548,055	JAN 85-MAR 87	31 JAN 87	8703(EM)
MED83	584,303	JAN 83-DEC 84	02 JAN 87	
MED80	804,720	JAN 80-DEC 82	15 DEC 86	
MED77	775,038	JAN 77-DEC 79	07 FEB 87	
MED75	642,573	JAN 75-DEC 76	21 FEB 87	
MED71	882,903	JAN 71-DEC 74	15 DEC 86	
MED66	954,368	JAN 66-DEC 70	15 DEC 86	
MESH VOC	59,907	1987	23 FEB 87	
NAME AUTH	282,397		23 FEB 87	
POPLINE	153,967	1970-FEB 87	07 FEB 87	8702(EM)
RTECS	84,556	THROUGH OCT 86	26 NOV 86	
SDILINE	26,263	MAR 87	31 JAN 87	8703(EM)
SERLINE	68,123	1987	23 FEB 87	
TOXLINE	929,375		16 FEB 87	8702(EM)
CBAC	501,771	1981-VOL 106(1,2)		
TOXBIB	200,135	1981-MAR 1987		
IPA (ASHP)	42,828	1981-VOL 24(3,4)		
BIOSIS	58,327	JAN 1987		
HEEP	49,788	1981-VOL 14(8)		
PESTAB	1,536	1981		
EMIC	12,899	1981-MAR 1986		
ETIC	15,184	1981-NOV 1986		
TD3	26,678	1981-GRA&I 86 (22)		
HMTC	1,869	1981-APR 1986		
ILO	5,249	JAN 1987		
RPROJ/CRISP	16,086	FISCAL YEARS 1983, 1984, 1985		
ANEUPLOIDY	3,593	1969-JUN 1986		
EPIDEMIOLOGY	8,722	JAN 1987		
TOXBACK76	555,808		27 AUG 84	
CBAC	298,383	1976-1980		
TOXBIB	106,643	1976-1980		
IPA(ASHP)	33,321	1976-1980		
HEEP	63,796	1976-1980		
PESTAB	14,757	1976-1980		
EMIC	17,267	1976-1980		
ETIC	11,970	1976-1980		
TD3	9,671	1976-1980		
TOXBACK65	598,424		27 AUG 84	
CBAC	287,992	1965-1975		
TOXBIB	155,387	1965-1975		
IPA(ASHP)	33,876	1969-1975		
HEEP	54,075	1970-1975		
HAPAB/PESTAB	18,416	1968-1975		
EMIC	19,554	1950-1975		
ETIC	13,694	1950-1975		
TD3	839	PRE-1965-1975		
HAYES	10,039	1940-1968		
TMIC	4,552	1940-1975		
(TOXNET SYSTEM)				
CCRIS	1,158		06 JAN 87	
HSDB	4,150		02 FEB 87	

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Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 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.

BIOETHICSLINE USING 1987 MESH

Effective January 16, 1987, Year-end Processing of BIOETHICSLINE was completed. For MeSH searching in this database, searchers should now use the 1987 MeSH vocabulary.

NEW DIRLINE SEARCH CAPABILITY: NAME WORDS (NW)

A new search capability has been added to DIRLINE. Name Words (NW) can now be used to search for uniterms taken from the Name (NA) field only. The Name (NA) field remains directly searchable and also Text Word (TW) searchable. This change should help to eliminate some of the false drops which occurred previously. Your comments on the usefulness of this new searching technique will be appreciated. The following example illustrates the precision of this new search capability by comparing a Name Word search with a Text Word search.

SS 1 /C?
USER:
(nw) national and academy and education
PROG:
SS (1) PSTG (1)

SS 2 /C?
USER:
prt na
PROG:
1
NA - National Academy of Education (NAEd)

SS 2 /C?
USER:
(tw) national and academy and education
PROG:
SS (2) PSTG (23)

NEW PDQ PRINT OPTION

For PDQ users who choose to have their output displayed in a "continuous" mode, there is a new PAUSE print/display option for the Protocol, Physician, and Organization files. This new option causes printing to stop at predetermined points so that the user may either continue the display or enter a PDQ command to terminate the display. This will be of assistance to users who start a "long" printout of protocols, for example, then wish to interrupt printing before it is complete.

The default mode for PAUSE is off. It may be toggled ON or OFF by using an option on the print menus for any of the three files. Once toggled ON, PAUSE will remain ON for the duration of the logon session unless toggled OFF. The status of the PAUSE toggle will be displayed on the main menu for each file.

When displaying Physicians or Organizations in short or medium formats or protocols in short format, PAUSE will stop after every five records. For all other print formats, PAUSE will stop after every record. At each PAUSE, a carriage return will cause the next record(s) to be displayed. Entering a valid PDQ command such as BACK will cancel the printing and take the requested action. PAUSE has no effect in browse mode.

TOXNET OFFLINE PRINTS

During January there were problems with offline print commands in TOXNET that

sometimes resulted in records with missing data fields. This has been corrected. However, please contact Ms. Jeanne Goshorn of Specialized Information Services (SIS) at (301) 496-1131 if you suspect that you received incomplete data in your January TOXNET offprints.

CLINPROT INDEX TERM LISTING

The CLINPROT Index Term listing for December 1986 is now available. It may be requested by writing to the MEDLARS Management Section. Please include a self-addressed label with your request. No return postage is necessary.

NLM-PRODUCED VIDEOCASSETTES AVAILABLE

Four videocassettes, designed and produced by the Library are now available on loan. At least one copy is available from each Regional Medical Library (RML) through standard interlibrary loan procedures and several copies are available for loan from the National Library of Medicine. All are in 3/4" format and are not copyrighted. They were produced by NLM's Audiovisual Program Development Branch, Lister Hill National Center for Biomedical Communications.

1. *Communicating for Health.* This videotape is shown daily at NLM to visitors. It briefly reviews the history of NLM, highlights current services and programs, and describes the Regional Medical Library network. It concludes with a look at development efforts in biomedical information transfer under way at the Lister Hill Center. Fifteen minutes. NLM Call Number: Z 675.M4 VC no. 3 1985.

2. *MEDLARS: An Overview.* Covers the development of MEDLARS services since its beginnings in 1964, and includes such topics as the publication of *Index Medicus*, MEDLINE and the other databases and databanks, the controlled vocabulary (*Medic' Subject Headings*), indexing, searching, a DOCLINE. It was designed primarily as a nontechnical overview for visitors, but library students and others unfamiliar with MEDLARS products and services should find it informative as well. Nine minutes. NLM Call Number: Z 699.5.M39 VC no. 2 1986.

3. *MEDLARS Indexing.* This videocassette expands on the indexing portion of *MEDLARS: An Overview*, detailing the steps involved in online indexing from receipt of a journal in the Serial Records Section through assignment of MeSH terms, final review, and production of *Index Medicus*. Nine minutes. NLM Call Number: Z 695.9 VC no. 1 1986.

4. *Medicine and the Arts: Two Faces of Humanity.* A colloquium on Medicine and the Arts was held at NLM on April 22, 1986 to celebrate and explore the relationship between the two disciplines. The Colloquium was videotaped on nine videocassettes. Three hundred & sixty minutes. NLM Call Number: WZ 350 VC no. 2 1986.

A videocassette is being prepared that w provide an overview of DOCLINE, NLM's automated interlibrary loan request and referral system. It will illustrate the ease and efficiency of requesting interlibrary loans using DOCLINE, and explain automatic routing and the interrelationship of files in the DOCLINE system. NLM Call Number: Z 713.5.U5 VC no. 1 1986. An announcement will be made in the NLM News and *NLM Technical Bulletin* when this videocassette becomes available.

ERRATA IN TOXNET BRIEF GUIDE

Corrections should be made to the TOXNET Brief Guide (pocket card) dated January 1987 in the section titled "Some Print Commands." The TOXNET Brief Guide was enclosed with the December *NLM Technical Bulletin.*

The definition shown for PRINT DETAILED actually applies to the PRINT INDENTF option. The correct definitions for these tv commands are:

PRINT DETAILED - prints all portions of the record which contain data.

PRINT INDENTED - prints full names of data fields (not just mnemonics) preceding data statements, plus full bibliographic references.

The examples of the PRINT NEW command are not in the correct format. The [DATE] portion of this command must always immediately follow the word NEW. Examples of the correct use of the PRINT NEW command are:

- PRT HTOX NEW 070186
- PRT NEW 070186 NTOX
- PRT ENEX NEW T-365

New [DATE] should always be thought of as a single unit.

Additional copies may be requested by writing to the Specialized Information Services (SIS). Please include a self-addressed mailing label. No postage is necessary.

PHONES LIST

Enclosed with this issue of the *NLM Technical Bulletin* is an updated list of telephone numbers which can be used to access the NLM computers.

Please access **FILE INFORM** *and type* **NEWS** *to see the most recent news items online!*

Epidemiology Subfile in TOXLINE

Jeanne Goshorn
Specialized Information Services, NLM

The Epidemiology Information System (EIS) file, built and maintained by the Center for Food Safety of the Food and Drug Administration (FDA), and formerly available on the now defunct DOE/RECON system, was added to TOXLINE as a separate subfile with the January 1987 update. The file includes citations to literature on the distribution and health effects of food contaminants, especially unavoidable contaminants, including natural toxicants in foods. The file was developed to provide the FDA with a computerized, indexed information system to pertinent literature related to health effects of food contaminants. Citations in the file are predominantly from published literature such as journal articles, reports, books, and conference proceedings. Some unpublished material such as correspondence, dissertations, and manuscripts are also included. Dates of publication of the citations in the file are from 1940 to the present. All of EIS is currently searchable in TOXLINE's front file.

Records in TOXLINE from the EIS subfile can be identified by the abbreviation EPIDEM in the Secondary Source Identifier (SI) field or by the subfile acronym "EIS" which appears in the Abstract (AB) field of records from this subfile (even when no abstract text is available). The actual words appearing at the start of each abstract field are "EIS: Epidemiology Information System." Because of the possibility of false drops from some other use of the term "EIS," limiting of searches to this subfile should be accomplished by using the following search strategy: (TW) EIS AND EPIDEMIOLOGY AND INFORMATION AND SYSTEM. Until future updates occur (quarterly updates are projected), the strategy (TW) EIS AND 8701 (EM) will also limit searches to this subfile. Currently, the file is developed and maintained for FDA by the Toxicology Information Response Center (TIRC) at the Oak Ridge National Laboratory. TIRC was established by NLM's Toxicology Information Program (TIP) in 1972 to provide information services in toxicology and related areas.

Figure 1 contains a sample record from the Epidemiology Information System subfile. Note that standard bibliographic fields are present, as well as descriptive keywords. A CAS Registry Number (RN) field is also included. Chemical names appear as separate entries in the Keywords (KW) field.

TOXLINE Record - PRINT DL

1
SI - EPIDEM/001086
AU - MORRIS PD
AU - KOEPSELL TD
AU - DALING JR
AU - TAYLOR JW
AU - LYON JL
AU - SWANSON GM
AU - CHILD M
AU - WEISS NS
TI - TOXIC SUBSTANCE EXPOSURE AND MULTIPLE MYELOMA: A CASE-CONTROL STUDY.
SO - J. NAT. CANCER INST. 1986, 76(6) 987-994
PT - JOURNALS
AB - EIS: Epidemiology Information System BY MEANS OF A POPULATION-BASED, MULTICENTER CASE-CONTROL INVESTIGATION, CERTAIN TOXIC SUBSTANCES WERE EVALUATED AS RISK FACTORS FOR MULTIPLE MYELOMA. INTERVIEWS WERE COMPLETED ON 698 SUBJECTS WITH NEWLY DIAGNOSED MULTIPLE MYELOMA, AND 1,683 CONTROLS WERE SELECTED FROM THE SAME GEOGRAPHIC AREAS AS THOSE OF THE CASES. RESPONDENTS WERE ASKED IF THEY HAD EVER BEEN "HIGHLY EXPOSED" TO ONE OR MORE OF A LIST OF TOXIC SUBSTANCES OR TO OTHER SUBSTANCES NOT ON THE LIST. WITH THE AID OF A TOXICOLOGIST, RESPONSES WERE THEN CATEGORIZED INTO 20 EXPOSURE GROUPS. THOSE WHO REPORTED PAST EXPOSURE TO PESTICIDES HAD AN ESTIMATED RELATIVE RISK OF 2.6 FOR MULTIPLE MYELOMA [95% CONFIDENCE INTERVAL (CI) = 1.5-4.6]. SUBJECTS EXPOSED TO A VARIETY OF COMPOUNDS COMMONLY USED BY PAINTERS HAD AN ESTIMATED RELATIVE RISK OF 1.6 (95% CI = 1.1-2.4). AN INCREASED RISK ALSO WAS FOUND FOR THOSE WHO WERE EXPOSED TO SOURCES OF CARBON MONOXIDE (RELATIVE RISK = 1.8, 95% CI = 1.0-3.2). ASSOCIATIONS OF BORDERLINE STATISTICAL SIGNIFICANCE WERE FOUND FOR METALS AND ORGANICALLY HIGH POLYMERS (PLASTICS AND ELASTOMERS). NO STATISTICALLY SIGNIFICANT ASSOCIATIONS WERE SEEN FOR EXPOSURE TO FERTILIZERS; DYES AND INKS; ALKALIES; ACIDS; OTHER CAUSTIC SUBSTANCES; CHEMICAL ASPHYXIANTS; ALIPHATIC, CHLORINATED, OR AROMATIC HYDROCARBONS; ALDEHYDES AND KETONES; ETHERS; ESTERS; OILS; DUSTS; OR ASBESTOS.
KW - CARBON MONOXIDE
KW - ASBESTOS
KW - ADULT
KW - AGED
KW - ENVIRONMENTAL EXPOSURE
KW - ENVIRONMENTAL POLLUTANTS
KW - HUMAN
KW - METALS
KW - MIDDLE AGE
KW - MULTIPLE MYELOMA
KW - CHEMICALLY INDUCED
KW - PAINT
KW - PESTICIDES
KW - POLYMERS
KW - RISK
KW - SOLVENTS
KW - UNITED STATES
KW - WASHINGTON
KW - UTAH
KW - MICHIGAN
KW - GEORGIA
KW - REGISTRIES
RN - 630-08-0
RN - 1332-21-4
EM - 8701

Figure 1

NLM Chemical & Toxicological Files PC Demo Disk

The NLM Chemical & Toxicological Files PC Demo Disk is an interactive, microcomputer demonstration of the CHEMLINE, TOXLINE, RTECS, HSDB, and CCRIS files. It is designed to acquaint the user with the content and search capabilities of these databases. There is a section on each database containing a brief description of the file and several sample searches.

The PC Demo Disk is written in the PILOTplus authoring language and runs on IBM-PC, PC-XT, PC-AT, and fully compatible computers. It requires 256K RAM memory, one disk drive, and DOS 2.0 or higher. It supports most monochrome, color graphics, or enhanced color graphics displays. The PC Demo Disk and accompanying documentation can be purchased from NTIS (Order number PB87-143327/GBB) for $15.00. Please include $3.00 per order to cover postage and handling. The foreign price is $30.00 with $4.00 postage and handling fee. The address for NTIS is:

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

Phone: (703) 487-4650

Please direct any questions or comments regarding the PC Demo Disk to:

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

Phone: (301) 496-1131

[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated.]

I don't hear GRATEFUL MED dial the NLM computer as some other software packages sometimes do. Is there any way that I can change GRATEFUL MED so that I can hear it dial the telephone number for the computer?

Yes, however it requires editing a program file of GRATEFUL MED called BLOGIN. For the purposes of this column, a text editor program resident in DOS called "EDLIN" is illustrated. However, any text editor or word processing software could be used.

For a one or two floppy disk system:

1. With DOS in Drive A and the GRATEFUL MED working copy in Drive B, type:

EDLIN B:BLOGIN <cr> (carriage return)

For a hard disk system:

1. At the C prompt type:

EDLIN BLOGIN <cr>

2. System responds: End of input file
*

(The * is the user prompt when using EDLIN.)

3. Type: L <cr>

4. System responds with a list of the contents of the file BLOGIN; each line will have a line number.

5. Type: 4 <cr>

6. System responds:

4:AT M0 E1 V1 Q0 F1
4:*

7. Type: AT M1 E1 V1 Q0 F1 <cr>
Note: The only change is in the M value. M1 will turn on the speaker; M0 turns it off. (1 = the number one; 0 = the number 0)

8. System responds: *

9. Type: L <cr>
Check line 4 to be sure the change you made actually took place.
If not, repeat steps 5 through 9.

10. System responds: *

11. Type: E <cr> (carriage return to end)

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p. 3
NTIS Invoices - A New Look, p. 1
NLM Chemical & Toxicological Files
PC Demo Disk, p. 8

****

WATCH FOR VERSION 2.0 PREVIEW IN NEXT MONTH'S GRATEFUL MED COLUMN.

****

Monthly Search Hint:

The Tree Trimmer

Thelma Charen
Senior Technical Adviser
Index Section, NLM

Several years ago I suggested to the Medical Subject Headings Section (MeSH) that they place a symbol in front of a term's tree number which -- for all practical purposes -- gives the broadest use to an indexer or searcher. At the time, in the spirit of the season, I offered to decorate the trees with little balls at the best branch or tree number. The offer was not accepted and the trees were not trimmed.

Now appears an excellent collection of tree branches, neatly pruned for expedient use. This is called aptly *The Tree Trimmer: A Search Tool for Multiple "Tree Explosions" in Medical Subject Headings 1987* and was written by William Clintworth.

In his publication Mr. Clintworth has selected all the MeSH terms which appear in two or more different arrays in different trees or in different parts of the tree. He has displayed portions of the trees, printing a given term with all of its indentions for a pre-searching comparison. His achievement is superior to my suggestion in that MeSH users locating a term with multiple tree numbers do not have to concern themselves with the bothersome multiple digits of a tree: the instant they see more than one tree number, they can go directly to *The Tree Trimme* where the term is found directly in the arrays in the same place.

My tree trimming was merely decorative (*Webster's* 3d: to embellish with or as if with ribbons, lace or ornaments: DECORATE, ADORN); Mr. Clintworth's trimming was pruning or as Webster (loc. cit.) says, made "trim, neat, regular or less bulky by or as if by cutting, shortening or clipping." *The Tree Trimmer* is all of that.

Because I think *The Tree Trimmer* is an excellent tool, I offer these two suggestions for what I hope will be a second or third or further edition.

First, the author should state in a preface or introduction the purpose of multiple tree numbers and the reason for MeSH's having positioned a given term with all or some of its dependents in two or more branches of the same tree or in two or more different trees. He assumes that all searchers know this: they don't.

In relation to the purpose of multiple treeing, I offer my second suggestion for the 2d edition: Print before the entry in question, the term also under which it is indented (see Figure 1). This will show the searcher the intent of the heading in various contexts.

The Tree Trimmer was published in 1986 by Clintworth Publications, and costs $35.00. It can be ordered from: Clintworth Publications, 3336 Waverly Drive, Los Angeles, CA 90027 (California residents add sales tax). Orders from outside the U.S., including Canada, will be shipped airmail and charged an additional $15.00.

LEGUMES

[PLANTS, EDIBLE]

LEGUMES	**B6.510.570**
ALFALFA	**B6.510.570.42**
PEANUTS	**B6.510.570.721**
SOYBEANS	**B6.510.570.870**

[PLANTS, MEDICINAL]

LEGUMES	**B6.560.546**
CASSIA	**B6.560.546.160**
GLYCYRRHIZA	**B6.560.546.445**

[VEGETABLES]

LEGUMES	**J1.341.956.570**
PEANUTS	**J1.341.956.570.721**
SOYBEANS	**J1.341.956.570.870**

In this display **LEGUMES** are viewed from three aspects: as edible plants, as medicinal plants, and as vegetables. The plants indented under them are not identical because their applications in human diet or therapy are not identical.

Figure 1A

ESTROGENS, SYNTHETIC

[HORMONES, SYNTHETIC]

ESTROGENS, SYNTHETIC	**D6.597.378**
CHLOROTRIANISENE	**D6.597.378.166**
DIENESTROL	**D6.597.378.240**
DIETHYLSTILBESTROL	**D6.597.378.278**
EPIMESTROL	**D6.597.378.340**
ETHINYL ESTRADIOL	**D6.597.378.379**
HEXESTROL	**D6.597.378.501**
MESTRANOL	**D6.597.378.640**
QUINESTROL	**D6.597.378.813**
ZERANOL	**D6.597.378.950**

[CONTRACEPTIVES, ORAL, SYNTHETIC]

ESTROGENS, SYNTHETIC	**D7.360.276.210.443.332**
ETHINYL ESTRADIOL	**D7.360.276.210.443.332.291**
MESTRANOL	**D7.360.276.210.443.332.535**
QUINESTROL	**D7.360.276.210.443.332.762**

In this display the searcher is apprised of the MeSH coverage of all synthetic estrogens but only the three displayed at the bottom function as oral contraceptives.

Figure 1B

[Editor's Note: The above two figures show the suggested enhancement of adding the broader term which indicates the intent of the heading in various contexts. These broader terms are shown in brackets.]

1987 POPLINE

Kathleen Stenger
Population Information Program of The Johns Hopkins University and MEDLARS Management Section, NLM

It is expected that a regenerated POPLINE file will be available to online users in early March. This March version of the file will reflect some enhancements to the database as well as the changes in the 1987 MeSH vocabulary.

The 1987 POPLINE file enhancements are:

1. The Transliterated/Vernacular Title (TT) field will be Text Word (TW) searchable.

2. The Year (YR) field will exist on all citations and, therefore, become printable for all citations. (Previously, journal-type citations carried the year only as part of the Date of Publication (DP) field.)

3. The Keyword (KW) field will have been validated. New Year-end Processing procedures were implemented this year. Portions of the entire database were rebuilt at the Population Information Program. A special processing routine was developed a part of this database rebuilding to check al occurrences of the Keyword (KW) field. Each keyword that did not match the 1987 list of POPLINE keywords was examined and either corrected, replaced, or deleted. When the 1987 file comes up in March, there will be greater precision in keyword searching.

An updated *POPLINE Thesaurus* is available and was mailed to those institutions that had previously received the 1984 edition. Any organization that has not received the new edition, or any organization or individual that needs a new thesaurus may request one from the following address:

Population Information Program
624 North Broadway
Baltimore, MD 21205

Please include the organization name and mailing address. A position title in addition to a personal name is also needed.

The 1987 MeSH vocabulary should be in place for searching effective with the 8703 (EM) update. Searchers are advised to review all POPLINE stored strategies for the 1987 vocabulary changes before this update occurs.

Serials Update

INDEXED TITLES UPDATE, FEBRUARY 1987

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, JANUARY 1987

HLI AMBULATORY CARE
AMBUL CARE
1,1981?--
NATIONAL ASSOCIATION FOR AMBULATORY CARE
DALLAS TX UNITED STATES
OFFICIAL JOURNAL OF THE NATIONAL
ASSOCIATION FOR AMBULATORY CARE.
INDEXING BEGAN WITH V7N1,1987.
ON ORDER
SR0058871 JC: AMB

IM ANNALI SCLAVO. COLLANA MONOGRAFICA
ANN SCLAVO COLLANA MONOGR
1,1984--
EDITA DA SCLAVO S.P.A.
SIENA ITALY
INDEXING BEGAN WITH N1,1984.
WI AN549
SR0058811 JC: ASC
EDITA DA SCLAVO S.P.A.,VIA FIORENTINA
1,53100 SIENA,ITALY

IM MYKOSEN. SUPPLEMENT
MYKOSEN [SUPPL]
1,1978--
GROSSE VERLAG
BERLIN GERMANY, WEST
INDEXING BEGAN WITH SUPPLEMENT 1,1978.
IN PROCESS 0344-7677
SR0058777 JC: NGF

TITLE CHANGES, JANUARY 1987

IDL ADM
ADM
43N2,MAR/APR 1986--
ASOCIACION DENTAL MEXICANA
MEXICO MEXICO
CONTINUES: REVISTA ADM.
IN PROCESS
SR0058849 JC: ADR

IDL AMERICAN DENTAL ASSOCIATION NEWS
AM DENT ASSOC NEWS
17N19,OCT 6 1986--
AMERICAN DENTAL ASSOCIATION
CHICAGO UNITED STATES
CONTINUES: ADA NEWS.
IN PROCESS
SR0058769 JC: AJF

IM ANNALES DE L INSTITUT PASTEUR. IMMUNOLOGY
ANN INST PASTEUR IMMUNOL
137DN1,JUL-AUG 1986--
ELSEVIER
PARIS FRANCE
CONTINUES: ANNALES DE L INSTITUT PASTEUR. IMMUNOLOGIE.
IN PROCESS
SR0058842 JC: AIP

IM ANNALES DE L INSTITUT PASTEUR. MICROBIOLOGY
ANN INST PASTEUR MICROBIOL
137BN2,SEP/OCT--
ELSEVIER
PARIS FRANCE
CONTINUES: ANNALES DE L INSTITUT PASTEUR. MICROBIOLOGIE.
IN PROCESS
SR0058843 JC: APM

IM BRITISH MEDICAL JOURNAL
BR MED J
294N6563,JAN 3 1987--
BRITISH MEDICAL ASSOCIATION
LONDON ENGLAND
MERGER OF: BRITISH MEDICAL JOURNAL [CLINICAL RESEARCH ED.]; AND, BRITISH MEDICAL JOURNAL [PRACTICE OBSERVED ED.].
W1 BR69BE
SR0058851 JC: BMJ

IM DEVELOPMENT
DEVELOPMENT
99N1,JAN 1987--
COMPANY OF BIOLOGISTS LIMITED
CAMBRIDGE ENG ENGLAND
CONTINUES: JOURNAL OF EMBRYOLOGY AND EXPERIMENTAL MORPHOLOGY.
W1 DE997NR 0950-1991
SR0058569 JC: ECW

INI GERIATRIC NURSING AND HOME CARE
GERIATR NUR HOME CARE
6N4,JUL/AUG 1986--
BAILLIERE TINDALL
LONDON ENGLAND
CONTINUES: GERIATRIC NURSING.
IN PROCESS 0269-9079
SR0058656 JC: FNZ

IM PEDIATRIC INFECTIOUS DISEASE JOURNAL
PEDIATR INFECT DIS J
6N1,JAN 1987--
WILLIAMS AND WILKINS
BALTIMORE UNITED STATES
CONTINUES: PEDIATRIC INFECTIOUS DISEASE.
W1 PE168FE 0891-3668
SR0058844 JC: OXJ

TITLES NO LONGER INDEXED AS OF JANUARY 1987

IM BIORHEOLOGY. SUPPLEMENT
BIORHEOLOGY [SUPPL]
1,1984
PERGAMON PRESS
NEW YORK UNITED STATES
INDEXING BEGAN WITH N1,1984.
W1 BI893
SR0053771 JC: BIS

IM CLINICAL AND EXPERIMENTAL NEUROLOGY
CLIN EXP NEUROL
14,1977-20,1984?
ADIS HEALTH SCIENCE PRESS
BALGOWLAH AUSTRALIA
CONTINUES PROCEEDINGS OF THE AUSTRALIAN ASSOCIATION OF NEUROLOGISTS. PUBLISHED FOR THE AUSTRALIAN ASSOCIATION OF NEUROLOGISTS. CONSISTS OF THE PROCEEDINGS OF THE AUSTRALIAN ASSOCIATION OF NEUROLOGISTS.
INDEXING BEGAN WITH V.14,1978
W1 CL664BN 0196-6383
C25510000 JC: DDW

IM CURRENTS IN ALCOHOLISM
CURR ALCOHOL
1,1977-8,1981?
GRUNE AND STRATTON
NEW YORK UNITED STATES
INDEXING BEGAN WITH V.5,1978.
W3 CU615 0161-8504
C58160000 JC: DXR

HLI HOSPITAL CAPITAL FINANCE
HOSP CAP FINANCE
1N1,WINTER 1984-3N4,1986
AMERICAN HOSPITAL ASSOCIATION
CHICAGO UNITED STATES
INDEXING BEGAN WITH V1N1,WINTER 1984.
W1 HO754F 0742-5708
H17810000 JC: HCA

HLI HOSPITAL MANAGER
HOSP MANAGER
13N6,NOV-DEC 1983-16N6,NOV-DEC 1986
AMERICAN HOSPITAL ASSOCIATION
CHICAGO UNITED STATES
CONTINUES: CROSS-REFERENCE ON HUMAN RESOURCES MANAGEMENT.
W1 HO817DH 0740-9982
H19084000 JC: GDO

IM HUMAN PHYSIOLOGY
HUM PHYSIOL
1,1975--
CONSULTANTS BUREAU
NEW YORK UNITED STATES
TRANSLATION OF FIZIOLOGIIA CHELOVEKA, ISSUED BY THE AKADEMIIA NAUK SSSR IN MOSCOW.
INDEXING BEGAN WITH V.4,1978 AND CEASED WITH V12N1,JAN-FEB 1986.
W1 HU46P 0362-1197
H22420000 JC: GE8

IM PROGRESS IN EXPERIMENTAL PERSONALITY
RESEARCH
PROG EXP PERS RES
1,1964-14,1986
ACADEMIC PRESS
NEW YORK UNITED STATES
W1 PR668R 0079-6255
P47700000 JC: Q0T

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES, JANUARY 1987

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH and POPLINE are listed in the "INDEXED TITLES UPDATE" section. 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, please contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ADVANCES IN ADOLESCENT MENTAL HEALTH
1,1986--
JAI PRESS
GREEENWICH CT UNITED STATES
IN PROCESS
SR0058862
JAI PRESS INC.,36 SHERWOOD PLACE,GREENWICH CT 06830

ADVANCES IN PROTEIN PHOSPHATASES
1ST,1985--
LEUVEN UNIVERSITY PRESS
LEUVEN BELGIUM
CONSISTS OF THE PROCEEDINGS OF THE 1ST- INTERNATIONAL SYMPOSIUM. PROCEEDINGS OF THE 1ST- PUBLISHED IN 2 VOLS.
IN PROCESS
SR0058724
LEUVEN UNIVERSITY PRESS,KRANKENSTRAUT 3,B-3000 LEUVEN,BELGIUM

AMINO ACIDS AND PEPTIDES
17,1986--
ROYAL SOCIETY OF CHEMISTRY
LONDON ENGLAND
CONTINUES: AMINO ACIDS, PEPTIDES AND PROTEINS.
IN PROCESS
SR0058730

ANNALES DE L INSTITUT PASTEUR. VIROLOGY
137N3,JUL/SEP 1986--
ELSEVIER
PARIS FRANCE
CONTINUES: ANNALES DE L INSTITUT PASTEUR. VIPOLOGIE.
IN PROCESS
SR0058809 $89.00

APPLIED SOCIAL SCIENCES INDEX AND ABSTRACTS
SPRING 1987--
LIBRARY ASSOCIATION
LONDON ENGLAND
ON ORDER
SR0058767
LIBRARY ASSOCIATION PUBLISHING LTD.,7 RIDGMOUNT STREET,LONDON WC1E 7AE,ENGLAND

BIOETHICS LITERATURE REVIEW
1N1,JAN 1986--
UNIVERSITY PUBLISHING GROUP
FREDERICK MD UNITED STATES
ON ORDER
SR0058831
UNIVERSITY PUBLISHING GROUP,107 EAST CHURCH ST.,FREDERICK MD 21701

BREASTFEEDING ABSTRACTS
1N1,SUMMER 1981--
LECHE LEAGUE INTERNATIONAL
FRANKLIN PARK IL UNITED STATES
ON ORDER
SR0058723

CAMPAIGNER AND ANIMALS DEFENDER
MAR-APR,1986--
NATIONAL ANTI-VIVISECTION SOCIETY, LONDON
LONDON ENGLAND
CONTINUES: ANIMALS DEFENDER.
IN PROCESS
SR0058748
ANIMALS DEFENDER, 51 HARLEY STREET, LONDON, W1N 1DD

CANCER CONSULTATION/LUNG CANCER
1N1,1985--
DOMINUS PUBLISHING
ROSLYN HEIGHTS NY UNITED STATES
ON ORDER
SR0058819
DOMINUS PUBLISHING CO.,79 POWERHOUSE RD.,P.O. BOX 67,ROSLYN HEIGHTS NY 11577

CARDIOLOGY IN PRACTICE
1N2,MAY/JUN 1984--
LE JACQ PUBLISHING
NEW YORK UNITED STATES
CONTINUES: CLINICAL CARDIOLOGY IN PRACTICE.
ON ORDER
SR0058817
LE JACQ PUBLISHING INC.,53 PARK PL.,NEW YORK NY 10007

CARDIOLOGY WORLD NEWS
1N1,JAN 1985?--
MEDICAL PUBLISHING ENTERPRISES
FAIR LAWN NJ UNITED STATES
ON ORDER
SR0058830
MEDICAL PUBLISHING ENTERPRISES,15-22 FAIR LAWN AVE.,FAIR LAWN NJ 07410

CURRENT OPINIONS OF THE COUNCIL ON ETHICAL AND JUDICIAL AFFAIRS OF THE AMERICAN MEDICAL ASSOCIATION
1986--
AMERICAN MEDICAL ASSOCIATION
CHICAGO UNITED STATES
CONTINUES: CURRENT OPINIONS OF THE JUDICIAL COUNCIL OF THE AMERICAN MEDICAL ASSOCIATION.
IN PROCESS
SR0058761
ORDER DEPT OP-122, AMERICAN MEDICAL ASSOCIATION, P.O. BOX 821, MONROE WI 53566

EUROPEAN JOURNAL OF PSYCHIATRY
1986--
EUROPEAN JOURNAL OF PSYCHIATRY
SARAGOSSE SPAIN
IN PROCESS
SR0058718
EUROPEAN JOURNAL OF PSYCHIATRY,P.O. BOX 6.029,SARAGOSSE,SPAIN

EXPERIMENTAL BRAIN RESEARCH SERIES
14,1986
SPRINGER-VERLAG
BERLIN GERMANY, WEST
CONTINUES: EXPERIMENTAL BRAIN RESEARCH. SUPPLEMENTUM.
IN PROCESS
SR0058682 $5,900.00
SPRINGER-VERLAG,HEIDELBERGER PLATZ 3,D-1000 BERLIN 33,WEST GERMANY

GASTROENTEROLOGY IN PRACTICE
1N1,1985?--
MEDICAL TRIBUNE GROUP
LONDON ENGLAND
IN PROCESS
SR0058702
MEDICAL TRIBUNE GROUP,TOWER HOUSE,SOUTHAMPTON STREET,LONDON WC2E 7LS,ENGLAND

GERIATRIC CONSULTANT
1N1,JUL/AUG 1982--
MEDICAL PUBLISHING ENTERPRISES
FORT LEE NJ UNITED STATES
ON ORDER
SR0058732
MEDICAL PUBLISHING ENTERPRISES,1 BRIDGE PLAZA NORTH,FORT LEE NJ 07024

GERIATRIKA
N1,1986?--
ALPE EDITORES, S.A.
MADRID SPAIN
IN PROCESS
SR0058706
ALPE EDITORES S.A.,ARZOBISPO MORCILLO 24,28029 MADRID,SPAIN

HEART FAILURE
1N1,JAN/FEB 1985--
LE JACQ PUBLISHING
NEW YORK UNITED STATES
ON ORDER
SR0058815
LE JACQ PUBLISHING INC.,53 PARK PL.,NEW YORK NY 10007

INFECTION CONTROL CANADA
1N1,NOV/DEC 1986
HEALTH MEDIA
TORONTO CANADA
IN PROCESS
SR0058806
HEALTH MEDIA,214 MERTON STREET,SUITE 202 TORONTO ONTARIO CANADA M4S 1A6

INTERNATIONAL SYMPOSIUM ON NATURAL IMMUNITY AND BIOLOGICAL RESPONSE MODIFICATION FOR THE THERAPY OF CANCER AND OTHER DISEASES
1ST,1985--
KARGER
BASEL SWITZERLAND
W3 IN92E
SR0058789

ITALIAN JOURNAL OF OPHTHALMOLOGY
1,1986--
KUGLER
BERKELEY CA UNITED STATES
ON ORDER
SR0058796
KUGLER PUBLICATIONS/GHEDINI EDITORE,P.O.BOX 5794,BERKELEY CA 94705

JOURNAL OF HUMAN LACTATION
1,1985--
INTERNATIONAL LACTATION CONSULTANT ASSOCIATION
CHARLOTTESVILLE VA UNITED STATES
ON ORDER
SR0058725
INTERNATIONAL LACTATION CONSULTANT ASSOCIATION,BOX 4031,UNIVERSITY OF VA STATION,CHARLOTTESVILLE VA 22903

JOURNAL OF JAPAN ASSOCIATION FOR INTERNATIONAL HEALTH
1N1,JUL 1986--
JAPAN ASSOCIATION FOR INTERNATIONAL HEALTH
YUHKI CITY JAPAN
IN PROCESS
SR0058701
JAPAN ASSOCIATION FOR INTERNATIONAL HEALTH,C/O JOHSAI HOSPITAL,10745-24 KAMINOMIYA,YUHKI CITY,IBARAKI PREF.,JAPAN 307

JOURNAL OF KOREAN MEDICAL SCIENCE
1N1,SEP 1986--
KOREAN ACADEMY OF MEDICAL SCIENCE
SEOUL KOREA
IN PROCESS
SR0058704
KOREAN ACADEMY OF MEDICAL SCIENCE,C.P.O. BOX 2062,SEOUL,KOREA

JOURNAL OF PERINATAL AND NEONATAL NURSING
1987--
ASPEN
FREDERICK MD UNITED STATES
ON ORDER
SR0058856 $95.00
ASPEN COPPORATION,7201 MCKINNEY CIRCLE P.O. 990,FREDERICK MD 21701

KEY NEUROLOGY AND NEUROSURGERY
1N1,1986--
YEAR BOOK MEDICAL PUBLISHERS
CHICAGO IL UNITED STATES
ON ORDER
SR0058872 $75.00

KOSIN TAEHAK UIHAKBU NONMUNJIP
1N1,1985--
KOSIN TAEHAK UIHAKBU
PUSAN KOREA, SOUTH
IN PROCESS
SR0058822
SUNG HAING LEE,KOSIN MEDICAL COLLEGE,34 AMNAM-DONG SUH-KU,PUSAN 600,SOUTH KOREA

LASERS IN OPHTHALMOLOGY
1,1986--
KUGLER
BERKELEY CA UNITED STATES
ON ORDER
SR0058791 $90.00
KUGLER PUBLICATIONS/GHEDINI EDITORE,P.O. BOX 5794,BERKELEY CA 94705

MALCOLM MILLAR LECTURE IN PSYCHOTHERAPY
1984--
ABERDEEN UNIVERSITY PRESS
ABERDEEN SCOTLAND
IN PROCESS
SR0058800

MECHANISMS OF DRUG ACTION
1,1986--
MACMILLAN
BASINGSTOKE ENGLAND
IN PROCESS
SR0058740
MACMILLAN PRESS,HOUNDMILLS,BASINGSTOKE HAMPSHIRE RG21 2XS,ENGLAND

MOLECULAR MICROBIOLOGY
1N1,JUL 1987--
BLACKWELL SCIENTIFIC
OXFORD ENGLAND
ON ORDER
SR0058792 $86.50
BLACKWELL SCIENTIFIC PUBLICATIONS LTD.,P.O. BOX 88,OXFORD OX2 1,ENGLAND

NATURAL PRODUCT UPDATES
SEP 1986--
ROYAL SOCIETY OF CHEMISTRY
NOTTINGHAM ENGLAND
ON ORDER
SR0058873
ROYAL SOCIETY OF CHEMISTRY,THE UNIVERSITY,NOTTINGHAM NG7 2RD,ENGLAND

NEBRASKA NEUROPSYCHOLOGY SYMPOSIA SERIES
1,1986--
PLENUM PRESS
NEW YORK UNITED STATES
IN PROCESS
SR0058858

OB/GYN WORLD
1,1984?--
BIOMEDICAL INFORMATION
NEW YORK UNITED STATES
ON ORDER
SR0058865
BIOMEDICAL INFORMATION CORPORATION,800 SECOND AVENUE,NEW YORK NY 10017

OCCUPATIONAL HEALTH REVIEW
1,1987?--
ECLIPSE PUBLICATIONS
LONDON ENGLAND
ON ORDER
SR0058756

OSTEOLOGIA
1,1986--
WALTER DE GRUYTER
BERLIN GERMANY, WEST
CONSISTS OF THE 1- JAHRESTAGUNG DER DEUTSCHEN GESELLSCHAFT FUR OSTEOLOGIE, 1984- .
IN PROCESS
SR0058712

OXFAM PRACTICAL GUIDE
N1,1984--
OXFAM
OXFORD ENGLAND
IN PROCESS
SR0058774
OXFAM,274 BANBURY ROAD,OXFORD OX2 7DZ,ENGLAND

PROGRESS IN ALCOHOL RESEARCH
1,1985--
VNU SCIENCE PRESS
UTRECHT NETHERLANDS
ON ORDER
SR0058864
VNU SCIENCE PRESS,UTRECHT NETHERLANDS

PROGRESS IN CLINICAL NEUROSCIENCES
1,1985--
NEUROLOGICAL SOCIETY OF INDIA
BIHAR INDIA
IN PROCESS
SR0058802
NEUROLOGICAL SOCIETY OF INDIA,MANSAROVAR,BOOTY ROAD,RANCHI 834009,BIHAR,INDIA

PROTEIN ENGINEERING
1,1987--
IRL PRESS
OXFORD ENGLAND
ON ORDER
SR0058757

REVISTA LATINA DE CARDIOLOGIA Y CIRUGIA CARDIOVASCULAR INFANTIL
1N1,1985?--
SOCIEDAD LATINA DE CARDIOLOGIA PEDIATRIA
BUENOS AIRES ARGENTINA
IN PROCESS
SP0058818
DR. GUILLERMO OSCAR KREUTZER,BILLINGHURST 2084,8 PISO,(1425),BUENOS AIPES,ARGENTINA

SKIN CANCER
1N1,JAN 1986?--
EDITORIAL IMPERIO, LDA
LISBON PORTUGAL
OFFICIAL ORGAN OF THE PORTUGUESE ASSOCIATION OF SKIN CANCER.
IN PROCESS
SP0058705 $40.00
POPTUGUESE ASSOCIATION OF SKIN CANCER,EDITORIAL IMPERIO LDA.,RUA DO SALITRE 155-2,1296 LISBON CODEX,PORTUGAL

SMOKING AND HEALTH
1ST,1986--
U.S. CENTERS FOR DISEASE CONTROL
ROCKVILLE MD UNITED STATES
IN PROCESS
SR0058708
U.S. CENTERS FOR DISEASE CONTROL,OFFICE ON SMOKING AND HEALTH,5600 FISHERS LANE,ROCKVILLE MD 20857

SOVIET PROGRESS IN BIOCHEMISTY
58,1986--
ALLERTON PRESS
NEW YORK UNITED STATES
ENGLISH TRANSLATION OF: UKRAINSKII BIOKHIMICHESKII ZHURNAL. OFFICIAL PUBLICATION OF THE A.V. PALLADIN INSTITUTE OF BIOCHEMISTRY. VOL. NUMBERING BEGINS WITH V. 58, 1986, TO CORRESPOND WITH NUMBERING OF ORIGINAL ED.
ON ORDER
SR0058790 $385.00
ALLERTON PRESS,150 5TH AVE.,NEW YORK NY 10011

SPECTROSCOPY
1N1,JAN 1986--
ASTER PUBLISHING
SPRINGFIELD OR UNITED STATES
ON ORDER
SR0058845
SPECTROSCOPY,CIRCULATION OFFICE,P.O. BOX 999,VENETA OR 97487

STUDIEN ZUR SEXUALPADAGOGIK
1,1985--
PETER LANG
FRANKFURT AM MAIN GERMANY, WEST
IN PROCESS
SR0058711

SYMPOSIA COMMENTARY
1,1984?--
PW COMMUNICATIONS
SECAUCUS NJ UNITED STATES
SUPPLEMENT TO SYMPOSIA REPORTER.
ON ORDER
SR0058868
PW COMMUNICATIONS INTERNATIONAL,400 PLAZA DRIVE,SECAUCUS NJ 07094

TURK TIP VE ECZACILIK DERGISI
1N1,1977?--
SCIENTIFIC AND TECHNICAL RESEARCH COUNCIL OF TURKEY
ANKARA TURKEY
IN PROCESS
SR0058861
SCIENTIFIC AND TECHNICAL RESEARCH,COUNCIL OF TURKEY,ATATURK BULVARI 221,KAVAKLIDERE,ANKARA,TURKEY

WFUMB
4TH,1985--
PERGAMON PRESS (AUSTRALIA)
SYDNEY AUSTRALIA
PROCEEDINGS OF THE 4TH- MEETING OF THE WORLD FEDERATION FOR ULTRASOUND IN MEDICINE AND BIOLOGY, HELD JOINTLY WITH THE 1ST- WORLD CONGRESS OF SONOGRAPHERS.
IN PROCESS
SR0058713

ZEITSCHRIFT FUR HERZ-,THORAX- UND GEFASSCHIRURGIE
FEB,1987--
STEINKOPFF
DARMSTADT GERMANY, WEST
ON ORDER
SR0058770
DR. DIETRICH STEINKOPFF VERLAG,POSTFACH 11 1008,D-6100 DARMSTADT,WEST GERMANY

GRATEFUL MED Users
Preview Version 2.0 p. 14

ISSN 0146-3055
MARCH 1987
No. 215

The NLM Technical Bulletin

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Monthly Search Hint
Indexing Note: AGED, 80 AND OVER 17

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NTIS to Begin Charging Interest on Overdue MEDLARS Accounts

Lois Ann Colaianni
Associate Director for Library Operations, NLM

Walter L. Finch, Director, Office of Product Management, NTIS

SUMMARY

As required by Federal law, on April 1, NTIS will implement an interest charge on any United States MEDLARS account overdue by 60 days or more from the date appearing on the invoice. Federal, state, and local government MEDLARS code holders are exempt from interest charges. Payment is due within 30 days of the invoice date. Interest will be applied when the unpaid balance is overdue 60 days or more. The first interest charges will be displayed on the May invoice and will be for any unpaid balance over-due 60 days or more as of April 1. The interest charge will be determined by the prevailing rate set by the U.S. Department of the Treasury; currently it is 7% per annum.

Continued on page 6.

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • National Institutes of Health
National Library of Medicine

DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
(ELHILL SYSTEM)				
AVLINE	15,865	THROUGH 1987	26 MAR 87	
BIOETHICS	22,002	JAN 73-1986	07 FEB 87	8702(EM)
CANCERLIT	572,904	JAN 63-MAR 87	28 FEB 87	8703(EM)
CANCERPROJ	10,183	THROUGH 1986	05 JUL 86	8607(EM)
CATLINE	614,096	THROUGH 1987	26 MAR 87	
CHEMLINE	729,667		19 FEB 87	8702(EM)
CLINPROT	5,926		21 MAR 87	8703(EM)
DIRLINE	15,557		07 FEB 87	
HEALTH	372,563	JAN 75-APR 87	07 MAR 87	8704(EM)
HISTLINE	76,046		07 MAR 87	8703(EM)
MEDLINE	571,705	JAN 85-APR 87	28 FEB 87	8704(EM)
MED83	584,278	JAN 83-DEC 84	21 MAR 87	
MED80	804,720	JAN 80-DEC 82	21 MAR 87	
MED77	775,038	JAN 77-DEC 79	21 MAR 87	
MED75	642,573	JAN 75-DEC 76	21 FEB 87	
MED71	882,890	JAN 71-DEC 74	07 MAR 87	
MED66	954,368	JAN 66-DEC 70	15 DEC 86	
MESH VOC	60,207	1987	28 MAR 87	
NAME AUTH	283,262		21 MAR 87	
POPLINE	153,967	1970-FEB 87	07 FEB 87	8702(EM)
RTECS	86,969	THROUGH JAN 87	10 MAR 87	
SDILINE	23,652	APR 87	28 FEB 87	8704(EM)
SERLINE	68,390	1987	14 MAR 87	
TOXLINE	945,291		17 MAR 87	8703(EM)
CBAC	507,761	1981-VOL 106(3,4)		
TOXBIB	190,192	1981-APR 1987		
IPA (ASHP)	43,765	1981-VOL 24(5,6)		
BIOSIS	61,410	1985-FEB 1987		
HEEP	49,788	1981-85 V.14(8)		
PESTAB	1,536	1981		
EMIC	12,901	1981-MAR 1986		
ETIC	15,176	1981-NOV 1986		
TD3	27,032	1981-GRA&I 86(24,25)		
HMTC	1,869	1981-APR 1986		
ILO	5,460	1981-MAR 87		
RPROJ/CRISP	16,086	FISCAL YEARS 1983, 1984, 1985		
ANEUPLOIDY	3,593	1969-JUN 1986		
EPIDEMIOLOGY	8,722	1940-JAN 1987		
TOXBACK76	555,808		27 AUG 84	
CBAC	298,383	1976-1980		
TOXBIB	106,643	1976-1980		
IPA(ASHP)	33,321	1976-1980		
HEEP	63,796	1976-1980		
PESTAB	14,757	1976-1980		
EMIC	17,267	1976-1980		
ETIC	11,970	1976-1980		
TD3	9,671	1976-1980		
TOXBACK65	598,424		27 AUG 84	
CBAC	287,992	1965-1975		
TOXBIB	155,387	1965-1975		
IPA(ASHP)	33,876	1969-1975		
HEEP	54,075	1970-1975		
HAPAB/PESTAB	18,416	1968-1975		
EMIC	19,554	1950-1975		
ETIC	13,694	1950-1975		
TD3	839	PRE-1965-1975		
HAYES	10,039	1940-1968		
TMIC	4,552	1940-1975		
(TOXNET SYSTEM)				
CCRIS	1,158		06 JAN 87	
HSDB	4,150		13 MAR 87	

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Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 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 ONLINE USER'S MEETING AND ACTIVITIES AT MLA

- The 1987 NLM Online User's Meeting, held as an informal meeting each year at the Medical Library Association (MLA) Annual Meeting, is scheduled for Monday, May 18, 1987, from 7:30 am to 8:30 am. This meeting will be held in the Convention Hall of the Memorial Coliseum.

- A DOCLINE User's Meeting is scheduled for Wednesday, May 20, from 2:00 pm to 3:00 pm in the Convention Hall.

- Version 2.0 of GRATEFUL MED will be demonstrated throughout the MLA meeting at the NLM exhibit booth. Also, DOCLINE and TOXNET demonstrations, as well as demonstrations of other NLM databases, are planned as part of the NLM booth activities throughout the annual meeting.

- Please also note that there will be a "Train the Trainers" course taught by the training staff of the University of California at Los Angeles on Friday, May 22, 1987 following the MLA conference. For registration information, contact Janice Contini at (213) 825-1200.

MEDLARS MINI-MANUAL

The *MEDLARS Mini-Manual* is available for purchase from The British Library. The cost is $25.00 (including shipping). Order from BLAISE-LINK, The British Library, 2 Sheraton Street, London W1V 4BH, England. For more complete information on this publication, as well as on BLAISE-LINK, please refer to the article on page 11 of this issue.

2400 BAUD ACCESS TO MEDLARS

Many cities in the U.S. now have 2400 baud TELENET and TYMNET telecommunications numbers available. These numbers can be used to access MEDLARS with 2400 baud modems and are noted in the Phones List by a dollar sign next to the number. The Phones List is sent to MEDLARS users quarterly with this publication, and was last distributed with the February 1987 *NLM Technical Bulletin.*

Searchers in areas with 2400 baud access who are interested in using this faster transmission speed should check to see if their equipment (modems, terminals, computers, printers, buffers) can keep up with 2400 baud data transmissions. Some users have found that their printers could not keep up with the faster speed, especially when the pagelength of their profile was set for a high number of lines, for example, pagelength = 100. Downloaded data can also be lost if a computer's buffer (storage prior to writing to disk or memory) is not large enough to accommodate the amount of data transmitted.

The access procedures for 2400 baud are slightly different from 300 and 1200 baud access. They are explained in Appendix A of this issue. NLM WATS users should contact MMS to request special 2400 baud access numbers and procedures.

DEMONSTRATION CODES POLICY CHANGE

It is no longer necessary to call MEDLARS Management Section after a system/database demonstration to report usage of a

MEDLARS demonstration code. A computer report is now generated regularly showing MMS staff the use of the code for each demonstration.

NLM MEDLARS PASSWORD SECURITY (MANUAL 3.7, 4.9.18)

Searchers are reminded that the password associated with their User ID code is provided for security purposes. No searcher needs to share that password with another person unless that person is known to the searcher and has permission to search with that User ID code. Passwords may be changed easily using the PROFILE MODIFY PASSWORD Command as the following example illustrates; NLM recommends that passwords be changed regularly. Please call MMS if you have questions on how to change your password.

```
SS 1 /C?
USER:
profile modify password
PROG:
PASSWORD?

USER:
spring
PROG:
PASSWORD        SPRING
NAME            HARRY SMITH
ADDRESS         100 EAST WOODLAWN
CITSTAZIP       BETHESDA, MD  20094
PAGELENGTH      00025
PAGEWIDTH       00072
OK? (Y/N/C/LIST)

USER:
y
PROG:
PROFILE COMPLETED.
```

CME CREDITS FOR PDQ SEARCHING

Physicians and physicians' assistants may now receive one hour of continuing medical education (CME) category I credit per hour of actual online use of PDQ. The CME Course Evaluation Form, which participants must submit every 6 months to claim CME credits, is displayable as an option from the PDQ news menu. The CME credits are currently only available on PDQ accessed through MEDLARS. Please see the PDQ news for further information.

PDQ SEARCH CONTINUTATION OPTION (MANUAL 15+)

The search continuation option (option 9) on the Cancer Information Menu has been modified. The continuation options allow the diagnosis selected while searching the Cancer Information File to be carried forward to obtain abstracts of citations in PDQ, CANCERLIT search statements, or Active Protocols. Continuations to the Physician and Organization directories have been deleted. These may still be accessed by typing PHY or ORG at any prompt or by selecting these options from the PDQ main menu. Two new options have been added. Users may now print abstracts for citations selected from the State-of-the-Art information (options 4-7 from the Cancer Information Menu). Currently, over 70% of citations have abstracts. The second new option allows users to display CANCERLIT search strategies for the designated disease. These search formulations are not intended to be comprehensive. The active protocols selection has not changed. Refer to the PDQ online news and the help screen for further information.

TOXNET IMPROVED NEIGHBOR COMMAND (MANUAL 25.4.6)

The NEIGHBOR ALL (abbreviated NBR ALL) Command is now available in TOXNET. This command may be used to display index terms alphabetically following the word entered, without regard to the data field in which the word appears. The following example from HSDB in TOXNET

shows the difference between the two variations of the NBR command.

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

 #  POSTINGS     TERM
 1      6      LUNG (MANF)  **
 2     34      LUNG (SAFE)  **
 3    815      LUNG (TOXB)  **
 4     21      LUNG (PHCY)  **
 5     38      LUNG (ENEX)  **
ENTER INDEX NUMBER(S) OR DOWN N
USER:
SS 1 /C?
USER:
nbr all lung

 #  POSTINGS     TERM
 1    849        LUNG
 2    667        LUNGS
 3      2        LUNGWORM
 4      1        LUNGWORMS
 5      2        LUNSFORD
ENTER INDEX NUMBER(S) OR DOWN N
USER:
```

Also, for any TOXNET NBR command, the Message "Enter Index Number(s) or Down N" is now displayed, giving users the option of selecting one or more of the index terms directly from the list being displayed.

MESH VOCABULARY FILE BACKFILE POSTINGS
(Manual 6.8.24)

Effective March 11, 1987, the MEDLINE Backfile Postings fields for each MeSH heading in the MESH VOCABULARY FILE were changed to reflect the current number of asterisked and non-asterisked postings in each of the backfiles. These fields are: MED66 (M66), MED71 (M71), MED75 (M75), MED77 (M77), MED80 (M80), and MED83 (M83). Please see the Technical Note in the November 1986 *NLM Technical Bulletin*, p. 4, titled "Backfile Postings in the MESH VOCABULARY FILE", or the *Online Services Reference Manual* for more information.

NEW BIOETHICSLINE MANUAL

A new searcher's manual, *Searching BIOETHICSLINE: A Basic Manual for the Novice Searcher*, was published by the Bioethics Information Retrieval Project at the Kennedy Institute of Ethics, Georgetown University, in November 1986.

The *Manual* provides instructions on how to search BIOETHICSLINE by author or subject and how to limit searches when too much material is retrieved. It also includes a set of exercises followed by suggested search strategies. The manual was designed primarily for health professionals, novice searchers, and experienced MEDLARS searchers who are not familiar with BIOETHICSLINE and the use of Keywords to index and search it.

The *Searching BIOETHICSLINE* manual is available for $5 from the Kennedy Institute of Ethics, Georgetown University, Washington, DC 20057 (telephone: 202/625-8713 or 800/MED-ETHX). The price includes shipping and handling, except that there is a surcharge of $2 for orders that are not prepaid. Checks should be made payable to the Kennedy Institute of Ethics.

Please access **FILE INFORM** *and type* **NEWS** *to see the most recent news items online!*

NTIS INTEREST
Continued from page 1.

BILLING PROCEDURE IMPROVEMENTS

Since compliance with interest charging regulations was first announced at the 1986 Medical Library Association Annual Meeting, a number of improvements have been made to the billing process and the invoice form. NLM and NTIS made a commitment that before implementation of interest charges, payments would be posted immediately upon receipt and invoices would be mailed promptly. We are pleased to report this has been accomplished. Figure 1 displays the new invoice form that has been in use for two months. It shows the charges for the month, the previous balance, and payments and adjustments to the account. Payments are processed when received and the specific date when a payment was processed now appears on the invoice. (Because invoices normally will be dated on the 15th of each month, payments processed by NTIS up through the first week of the current month are likely to be reflected on the invoice.) The bottom of the invoice form contains an "aging" schedule of amounts that are past due. Beginning with the May 15 invoice for April MEDLARS usage, the interest applied and the rate at which it is computed will be displayed on the form as well.

To assure prompt processing of payments, the top of the invoice form containing the user's invoice number should always be returned with payment. If the top of the invoice cannot be returned, the check or money order should include the user invoice number or User ID code. Payments can be processed and posted much more rapidly by NTIS when the top part of the form is attached.

The detailed billing information for each database that accompanies the invoice has undergone a transformation also. NTIS, using a new laser printer, has reduced the number of sheets necessary to provide the detailed information. Information for as many as twelve databases can be contained on each side of a sheet. This change has enabled NTIS to reduce the time lag between receipt of billing data from NLM and mailing of invoices to customers. (See Figure 2.)

If a user has an unpaid balance overdue more than 60 days from the invoice date, a separate letter will be mailed by NTIS notifying the customer that interest charges have begun to accrue. A second letter will follow after 91 days from the invoice date unless payment is received or a written explanation has been sent to NTIS providing information on why payment has not been made. If payment has not been made in a reasonable length of time, NLM will consider termination of services. If a user believes the current invoice shows an incorrect overdue balance, NTIS should be contacted immediately. Users are urged to resolve all billing questions, especially those concerned with unpaid balances, before interest charges are implemented.

NTIS CUSTOMER SERVICE

NTIS customer service staff has been augmented to provide more rapid response to questions from MEDLARS users. If assistance is needed, please call NTIS Accounting at (703) 487-4770 and ask for the designated accounting representative as follows:

First Letter of User ID Code	NITS Contact
A - E	Judy Walker
F - M	Cynthia Beard
N - Z	Virginia Birchett

Denise Haynes, NTIS Credit Manager, also can be reached at this number.

Searchers should inform their library staff and disbursement offices of these interest payment details. NLM depends on its users to keep these individuals fully informed. We hope that the implementation of interest charges will proceed in an uncomplicate manner. In an effort to keep users informed the *NLM Technical Bulletin* will cover the most frequently posed questions about billing.

INTEREST POLICY - EXAMPLE

To illustrate how the interest policy will work, consider the following table that simulates current and aged past-due amounts from the new invoice:

- As of April 15, the customer owes a total of $500.00, of which $400.00 is past due and $100.00 is from current charges. No interest is charged on past due amounts.

- On the May 15 invoice, the $200.00 payment received on 4/24/87 has been applied, crediting the most aged past-due amounts preferentially as follows: $80.00 was past due for 120 or more days, and this is paid in full, leaving $120.00 to go toward the $140.00 amount past due for 90 days in April. Thus, effective with the May invoice, $20.00 is now past due for 120+ days, $110.00 for 90 days, etc. The past-due amounts still remaining are now charged interest according to the formula shown.

- On the June 15 invoice, the 5/25/87 payment of $150.00 was first applied to the $1.17 interest charge, then the most aged past-due amount of $20.00, then to the $110.00, yielding a zero balance in the 120+ category. The remaining $18.83 paid was then applied to the $70.00 past-due amount, leaving a 90 day past due amount of $51.17.

- On the July 15 invoice, the 6/26/87 payment of $392.05 equalled the total amount due from the June invoice. Therefore, the customer has no past-due amounts as of July 15, and no interest is charged. The total amount due is the $105.00 charge for June usage.

	April 15 Invoice	May 15 Invoice	June 15 Invoice	July 15 Invoice
MEDLARS charge for previous month's usage	$100.00 (for March)	$125.00 (for April)	$115.00 (for May)	$105.00 (for June)
Previous Balance	$550.00	$500.00	$426.17	$392.05
Payment	$150.00	$200.00	$150.00	$392.05
Date Made	3/25/87	4/24/87	5/25/87	6/26/87
Interest	----	$1.17	$0.88	----
Total Amount Due	$500.00	$426.17	$392.05	$105.00
Past-Due Amounts (from Aging Schedule)				
30 days	$70.00	$100.00	$125.00	----
60 days	$110.00	$70.00*	$100.00*	----*
90 days	$140.00	$110.00*	$51.17*	----*
120+ days	$80.00	$20.00*	----*	----*
Total Past Due	$400.00	$300.00	$276.17	----
Interest	----	$1.17 1/	$0.88 2/	----

* Subject to one month of interest, @7% per annum rate

1/ Equal to .07/12 x [$70.00 + $110.00 + $20.00]

2/ Equal to .07/12 x [$100.00 + $51.17]

U.S. DEPARTMENT OF COMMERCE
National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161

INVOICE

NTIS USE ONLY
CASH
DA
ADJ

XXX01
Medical Library
701 N. 258th
Burke, VA 22015

DATE: Feb 15, 1987
AMT. DUE: $2219.50

PURCHASE ORDER	PG	INVOICE NO:
	01	0000XXX01

IMPORTANT: PLEASE ATTACH UPPER PORTION OF INVOICE WITH PAYMENT

DOCUMENT NUMBER/SERVICE	DATE PROCESSED	AMOUNT	REMARKS
MEDLARS CHARGE FOR MONTH OF JAN		310.00	1
STATEMENT OF ACCOUNTS			
PREVIOUS BALANCE		2601.50	2
PAYMENT	01/07/87	350.00	
PAYMENT	01/14/87	342.00	3
TOTAL CURRENT CHARGES		310.00	
TOTAL AMOUNT DUE		2219.50	

* FOR INFORMATION REFERENCE CHARGES, CALL NLM (301) 496-6193 *
* FOR INFORMATION REFERENCE PAYMENTS, CALL NTIS (703) 487-4770 *
* PAYMENTS RECEIVED AFTER THE 31ST WILL BE POSTED ON THE NEXT *
* MONTH'S INVOICE. PLEASE MAKE CHECKS PAYABLE TO NTIS. *

CURRENT CHARGES	THE BELOW AMOUNTS (*) ARE PAST DUE-PAYMENT IS DUE IMMEDIATELY *30 DAYS	*60DAYS	*90 DAYS	*120&OVER	TOTAL OVERDUE	
310.00	208.50	235.00	354.00	1112.00	$1909.50	4

PURCHASE ORDER NUMBER	NTIS INVOICE NUMBER	RETAIN THIS PORTION FOR YOUR RECORDS
	0000XXX01	

1. Charges for January
2. Previous Balance
3. Payments Processed
4. Aging Schedule

Figure 1

TRANSACTION DETAIL

1

QUANTITY	RATE		
			AVLINE
			ONLINE CHARGES
0.08	$7.25	$0.58	PRIME HOURS
.76	$0.12/100	$0.09	PRIME WORK UNITS
9,192	$0.12/1K	$1.10	PRIME CHARACTERS
0.32	$4.50	$1.44	NON-PRIME HOURS
476	$0.06/100	$0.29	NON-PRIME WORK UNITS
15,874	$0.08/1K	$1.27	NON-PRIME CHARACTERS
10	$0.01	$0.10	SEARCH STATEMENTS
41	$0.01	$0.39	CITATIONS
69	$0.01	$0.69	INTERACTIONS
			OFFLINE CHARGES
15	$0.18	$2.70	PAGES
0	$1.00	$0.00	OFFSEARCHES
0	$1.00	$0.00	SDI
		$8.65	SUBTOTAL - AVLINE
			BACK66
			ONLINE CHARGES
0.05	$7.25	$0.36	PRIME HOURS
218	$0.12/100	$0.26	PRIME WORK UNITS
1,683	$0.12/1K	$0.20	PRIME CHARACTERS
0.09	$4.50	$0.41	NON-PRIME HOURS
384	$0.06/100	$0.23	NON-PRIME WORK UNITS
6,208	$0.08/1K	$0.50	NON-PRIME CHARACTERS
17	$0.01	$0.17	SEARCH STATEMENTS
34	$0.01	$0.34	CITATIONS
43	$0.01	$0.43	INTERACTIONS
			OFFLINE CHARGES
0	$0.18	$0.00	PAGES
0	$1.00	$0.00	OFFSEARCHES
0	$0.00	$0.00	SDI
		$2.90	SUBTOTAL - BACK66
			BACK71
			ONLINE CHARGES
0.08	$7.25	$0.58	PRIME HOURS
333	$0.12/100	$0.40	PRIME WORK UNITS
3,539	$0.12/1K	$0.42	PRIME CHARACTERS
0.19	$4.50	$0.86	NON-PRIME HOURS
824	$0.06/100	$0.49	NON-PRIME WORK UNITS
16,384	$0.08/1K	$1.31	NON-PRIME CHARACTERS
28	$0.01	$0.28	SEARCH STATEMENTS
84	$0.01	$0.74	CITATIONS
84	$0.01	$0.84	INTERACTIONS
			OFFLINE CHARGES
0	$0.18	$0.00	PAGES
0	$1.00	$0.00	OFFSEARCHES
0	$0.00	$0.00	SDI
		$5.92	SUBTOTAL - BACK71

2

QUANTITY	RATE		
			BACK75
			ONLINE CHARGES
0.18	$7.25	$1.31	PRIME HOURS
574	$0.12/100	$0.69	PRIME WORK UNITS
5,996	$0.12/1K	$0.72	PRIME CHARACTERS
0.16	$4.50	$0.72	NON-PRIME HOURS
758	$0.06/100	$0.45	NON-PRIME WORK UNITS
13,208	$0.08/1K	$1.06	NON-PRIME CHARACTERS
45	$0.01	$0.45	SEARCH STATEMENTS
79	$0.01	$0.61	CITATIONS
99	$0.01	$0.99	INTERACTIONS
			OFFLINE CHARGES
0	$0.18	$0.00	PAGES
0	$1.00	$0.00	OFFSEARCHES
0	$0.00	$0.00	SDI
		$7.00	SUBTOTAL - BACK75
			BACK77
			ONLINE CHARGES
0.37	$7.25	$2.68	PRIME HOURS
1,162	$0.12/100	$1.39	PRIME WORK UNITS
19,248	$0.12/1K	$2.31	PRIME CHARACTERS
0.17	$4.50	$0.77	NON-PRIME HOURS
801	$0.06/100	$0.48	NON-PRIME WORK UNITS
14,088	$0.08/1K	$1.13	NON-PRIME CHARACTERS
61	$0.01	$0.61	SEARCH STATEMENTS
153	$0.01	$1.22	CITATIONS
140	$0.01	$1.40	INTERACTIONS
			OFFLINE CHARGES
0	$0.18	$0.00	PAGES
0	$1.00	$0.00	OFFSEARCHES
0	$0.00	$0.00	SDI
		$11.99	SUBTOTAL - BACK77
			BACK80
			ONLINE CHARGES
1.63	$7.25	$11.82	PRIME HOURS
4,631	$0.12/100	$5.56	PRIME WORK UNITS
85,461	$0.12/1K	$10.26	PRIME CHARACTERS
0.30	$4.50	$1.35	NON-PRIME HOURS
1,158	$0.06/100	$0.69	NON-PRIME WORK UNITS
13,623	$0.08/1K	$1.09	NON-PRIME CHARACTERS
182	$0.01	$1.82	SEARCH STATEMENTS
464	$0.01	$3.48	CITATIONS
391	$0.01	$3.91	INTERACTIONS
			OFFLINE CHARGES
0	$0.18	$0.00	PAGES
0	$1.00	$0.00	OFFSEARCHES
0	$0.00	$0.00	SDI
		$39.98	SUBTOTAL - BACK80

3

QUANTITY	RATE		
			BACK83
			ONLINE CHARGES
1.45	$7.25	$10.51	PRIME HOURS
4,953	$0.12/100	$5.94	PRIME WORK UNITS
93,193	$0.12/1K	$11.18	PRIME CHARACTERS
0.34	$4.50	$1.53	NON-PRIME HOURS
1,195	$0.06/100	$0.72	NON-PRIME WORK UNITS
16,610	$0.08/1K	$1.33	NON-PRIME CHARACTERS
235	$0.01	$2.35	SEARCH STATEMENTS
425	$0.01	$3.91	CITATIONS
488	$0.01	$4.88	INTERACTIONS
			OFFLINE CHARGES
0	$0.18	$0.00	PAGES
0	$1.00	$0.00	OFFSEARCHES
0	$0.00	$0.00	SDI
		$42.35	SUBTOTAL - BACK83
			CHEMLINE
			ONLINE CHARGES
0.00	$51.25	$0.00	PRIME HOURS
0	$0.12/100	$0.00	PRIME WORK UNITS
0	$0.12/1K	$0.00	PRIME CHARACTERS
0.06	$48.50	$2.91	NON-PRIME HOURS
104	$0.06/100	$0.06	NON-PRIME WORK UNITS
509	$0.08/1K	$0.04	NON-PRIME CHARACTERS
1	$0.01	$0.01	SEARCH STATEMENTS
0	$0.10	$0.00	CITATIONS
9	$0.01	$0.09	INTERACTIONS
			OFFLINE CHARGES
4	$0.66	$2.64	PAGES
0	$1.00	$0.00	OFFSEARCHES
0	$0.00	$0.00	SDI
		$5.75	SUBTOTAL - CHEMLINE
			HEALTH PLA
			ONLINE CHARGES
0.15	$7.25	$1.09	PRIME HOURS
461	$0.12/100	$0.55	PRIME WORK UNITS
10,308	$0.12/1K	$1.24	PRIME CHARACTERS
0.00	$4.50	$0.00	NON-PRIME HOURS
0	$0.06/100	$0.00	NON-PRIME WORK UNITS
0	$0.08/1K	$0.00	NON-PRIME CHARACTERS
11	$0.01	$0.11	SEARCH STATEMENTS
48	$0.01	$0.48	CITATIONS
28	$0.01	$0.28	INTERACTIONS
			OFFLINE CHARGES
0	$0.18	$0.00	PAGES
0	$1.00	$0.00	OFFSEARCHES
0	$1.00	$0.00	SDI
		$3.75	SUBTOTAL - HEALTH PLA

4

QUANTITY	RATE		
			MEDLINE
			ONLINE CHARGES
5.15	$7.25	$37.34	PRIME HOURS
15,304	$0.12/100	$18.36	PRIME WORK UNITS
264,400	$0.12/1K	$31.73	PRIME CHARACTERS
1.89	$4.50	$8.51	NON-PRIME HOURS
7,467	$0.06/100	$4.48	NON-PRIME WORK UNITS
79,432	$0.08/1K	$6.35	NON-PRIME CHARACTERS
543	$0.01	$5.43	SEARCH STATEMENTS
1,376	$0.01	$10.68	CITATIONS
1,325	$0.01	$13.25	INTERACTIONS
			OFFLINE CHARGES
0	$0.18	$0.00	PAGES
0	$1.00	$0.00	OFFSEARCHES
0	$0.00	$0.00	SDI
		$136.13	SUBTOTAL - MEDLINE
			SDILINE
			ONLINE CHARGES
0.84	$7.25	$6.09	PRIME HOURS
2,133	$0.12/100	$2.56	PRIME WORK UNITS
8,434	$0.12/1K	$1.01	PRIME CHARACTERS
0.23	$4.50	$1.04	NON-PRIME HOURS
341	$0.06/100	$0.20	NON-PRIME WORK UNITS
5,689	$0.08/1K	$0.46	NON-PRIME CHARACTERS
32	$0.01	$0.32	SEARCH STATEMENTS
0	$0.01	$0.00	CITATIONS
123	$0.01	$1.23	INTERACTIONS
			OFFLINE CHARGES
141	$0.18	$25.38	PAGES
0	$1.00	$0.00	OFFSEARCHES
36	$1.00	$36.00	SDI
		$74.29	SUBTOTAL - SDILINE
			SERLINE
			ONLINE CHARGES
0.03	$7.25	$0.22	PRIME HOURS
46	$0.12/100	$0.06	PRIME WORK UNITS
2,199	$0.12/1K	$0.26	PRIME CHARACTERS
0.00	$4.50	$0.00	NON-PRIME HOURS
0	$0.06/100	$0.00	NON-PRIME WORK UNITS
0	$0.08/1K	$0.00	NON-PRIME CHARACTERS
2	$0.01	$0.02	SEARCH STATEMENTS
4	$0.01	$0.04	CITATIONS
5	$0.01	$0.05	INTERACTIONS
			OFFLINE CHARGES
0	$0.18	$0.00	PAGES
0	$1.00	$0.00	OFFSEARCHES
0	$0.00	$0.00	SDI
		$0.65	SUBTOTAL - SERLINE

Figure 2A

TRANSACTION DETAIL

QUANTITY	RATE	$	TOTALS
			ONLINE CHARGES
10.01		$72.58	PRIME HOURS
29,891		$35.86	PRIME WORK UNITS
503,673		$60.43	PRIME CHARACTERS
3.75		$19.54	NON-PRIME HOURS
13,508		$8.09	NON-PRIME WORK UNITS
181,595		$14.54	NON-PRIME CHARACTERS
1,167		$11.67	SEARCH STATEMENTS
2,688		$21.89	CITATIONS
2,804		$28.04	INTERACTIONS
			OFFLINE CHARGES
160		$30.72	PAGES
0		$0.00	OFFSEARCHES
36		$36.00	SDI
		$339.36	GRAND TOTAL

Figure 2B

[Editor's Note: The British Library is one of the sixteen Non-United States Centers which have agreements with NLM to provide MEDLARS services. Some provide service by managing online access to the NLM computer, such as the BLAISE-LINK Service offered by the British Library. Others receive copies of NLM databases and mount them on their own computers. NLM extends warm wishes to The British Library in its celebration of ten years of MEDLARS service.]

MEDLARS in Britain

Peter Dale
BLAISE-LINK, The British Library

The British involvement with MEDLARS began in 1966 when staff of the National Lending Library for Science and Technology (one of the various bodies that merged in the early 1970's to form the new British Library) introduced the UK MEDLARS Search Service. In 1968 this service became the UK MEDLARS Centre and began to index British journals, as one of NLM's bilateral partners, for inclusion in MEDLINE. This indexing activity has continued ever since, and today the British Library's indexing accounts for some 5% of the total input to MEDLINE.

In 1977 the British Library introduced BLAISE (British Library Automated Information Service) and thus made the online MEDLARS files available to British and European users. Initially this service operated as a tape centre, whereby the British Library mounted its own duplicate copies of the NLM files alongside a variety of other databases. In 1982 the service was reorganised and a new service called BLAISE-LINK, was set up to be concerned exclusively with the online MEDLARS service. At this time the British Library switched from being an NLM tape centre to being an online centre, and so the British Library users began to access the NLM computer directly, via satellite links which connect British and other European data networks to TELENET and TYMNET.

Although BLAISE-LINK users connect to the NLM computer alongside United States users, all the marketing, training, user support, administration and billing activities are carried out by BLAISE-LINK. In effect, NLM treats BLAISE-LINK as if it were a single user with several hundred User ID codes - and leaves the British Library to administer those passwords as it sees fit. Consequently, from the user's point of view, BLAISE-LINK performs all the functions of an online host service. The only indication that NLM is actually the host comes with the system greeting: "Welcome to the National Library of Medicine's ELHILL retrieval system." This arrangement works very well, thanks to the excellent cooperation between NLM's MEDLARS Management Section and the BLAISE-LINK staff.

USER SUPPORT

BLAISE-LINK staff in London operate a Help Desk for users - for which they maintain regular contact with MMS staff, for troubleshooting purposes - and also run a full program of training courses, user meetings, and so on. In addition, they publish a comprehensive range of user documentation, which includes *The BLAISE-LINK User Manual*, *The BLAISE-LINK Mini Manual*, an *Intromed Workbook*, and a *MeSH Workbook*.

The Help Desk is equivalent to the MMS Service Desk. It is important that BLAISE-LINK operates its own Help Desk for a variety of reasons, but most notably due to the fact that British users generally begin searching the system about five hours before the NLM staff begin their day (and other European users are a further one or two hours ahead!). Also, many of the queries are concerned with telecommunications problems and must therefore be dealt with locally.

The BLAISE-LINK training courses closely parallel the courses run by NLM, with the only major difference being in the coverage of the logging in procedure which is a little more complicated than logging in from within the USA.

PUBLICATIONS

Some users find it suprising that BLAISE-LINK produces its own system documentation instead of using NLM's materials, but there are a number of good reasons why it should do so. First of all, the cost of importing multiple copies of the *Online Services Reference Manual* and other items of documentation would prove to be uneconomic, especially in view of the fact that the British Library supports an excellent in-house publishing facility. Another factor is that, as mentioned above, the telecommunications procedure is totally different for BLAISE-LINK users and must therefore be reflected in the documentation. Also, perhaps to the surprise of some American readers, British and European users feel much more comfortable with "British English" than with "North American English." There are differences in spelling, terminology, etc., which can either confuse or irritate the user, and so it is highly desirable that the documentation is "translated" into British English. The British Library does, however, import *Annotated MeSH*, *MeSH Tree Structures*, and *Permuted MeSH* from NTIS for sale to BLAISE-LINK users (since there is nothing that we can do about the language of MeSH being North American English!).

Accordingly, the *Online Services Reference Manual* has been "translated" into the *BLAISE-LINK User Manual*, and is issued - like its parent - in a ring binder which can be quickly and easily updated. Updates are prepared, and sent out free of charge to all subscribers, as soon as any significant system change is implemented.

From the outset, many users complained that the sheer bulk of the *User Manual* meant that it was virtually impossible to use during a live search session. Since many users need to check unit records, special search techniques, etc., while actually carrying out a search, it was soon realised that a more compact manual, which could be used at the terminal, was required. After much deliberation it was decided that the *User Manual* should be retained as the definitive system manual for reference use and for use in search planning, while a new condensed version, for use at the terminal, should be prepared. This condensed version was called the *BLAISE Mini Manual* and it evolved into the *BLAISE-LINK Mini Manual* when the BLAISE-LINK service was introduced. The *Mini Manual* summarises the main points of the *User Manual*, and includes the full unit record descriptions, sample records, and so on. It has proved to be the most popular item of documentation that BLAISE-LINK produces, and has so far run three editions.

Other items of BLAISE-LINK documentation include the *Intromed WorkBook* which provides a modular programmed learning course to be followed in conjunction with the INTROMED Training file on MEDLARS; the *MeSH Workbook* which provides detailed instruction in the intricacies of the MeSH vocabulary; a selection of Factsheets for each individual MEDLARS file; and a "Pocket Guide" which supplies the most basic information on logging in, searching and printing, and which can double up as a terminal card to be pinned to the wall beside the terminal to serve as an "aide memoire" for occasional users.

MEDLARS MINI MANUAL

Over the years, a number of American users have seen the *BLAISE-LINK Mini Manual* and suggested that a North American version would be useful. In response to this, the most recent edition of the *BLAISE-LINK Mini Manual* has been carefully revised and adapted for use in North America, and is now available as the *MEDLARS Mini Manual.*

The *MEDLARS Mini Manual* has been carefully designed to include all the basic information required for planning and running a straightforward search, and it is arranged in an easily handled format that can be quickly consulted at the terminal during a search. In addition to functioning as an invaluable quick-reference tool for all MEDLARS searchers, whether novice or experienced, the *MEDLARS Mini Manual* also serves as a very useful introduction to the system for new users - or as a refresher for more experienced searchers. The early

sections of the *Mini Manual* outline the basics of connecting to MEDLARS and running a simple search. These sections condense the most fundamental points with which the user should be familiar in order to retrieve relevant records and print the results. Following the introductory sections, the main body of the *Mini Manual* is devoted to individual sections covering each of the individual files in MEDLARS. These sections describe the subject content and basic search techniques for each file, and provide a sample record and unit record description (the full list of fields available for searching and printing in that file).

The *MEDLARS Mini Manual* costs $25. If any *NLM Technical Bulletin* readers would like more details please write me: Peter Dale, BLAISE-LINK, The British Library, 2 Sheraton Street, London W1V 4BH, England (or enclose a check for $25 to order a copy immediately - alternatively, we can send a pro forma invoice on request).

I would like to think that I have shown that the MEDLARS activity in Britain is little different from MEDLARS activity in the USA. It is fascinating to think that the MEDLARS searcher in Cambridge, Mass., is searching the same computer, by the same procedure, as the user in Cambridge, England (likewise the respective users in Birmingham, Alabama and Birmingham, England, and, indeed, Bethesda, MD and either of the two Bethesdas in Wales!). Late last year BLAISE-LINK users joined in the celebrations for the 15th anniversary of MEDLARS online by sharing the free day's access to MEDLINE. By the time this article appears, BLAISE online services will be celebrating ten years of online access to MEDLINE. On behalf of all MEDLARS searchers on this side of the Atlantic I would like to send good wishes to all *NLM Technical Bulletin* readers, and to express a sincere hope that we will share many more anniversaries and landmarks in the decades ahead.

Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated. This month's column is devoted to previewing Version 2.0 of GRATEFUL MED.

GRATEFUL MED Version 2.0 will be released during this Spring. Any user who originally purchased Version 1.0 from the National Technical Information Service (NTIS) will automatically receive Version 2.0 and its revised manual in the mail at no additional charge.

Version 2.0 has added enhancements for searching, improvements for data storage, and shortcuts for accessing screens. A brief description of some of the major changes follows.

MESH TERMS ADDED

If you like searching with NLM's controlled vocabulary (MeSH) you'll love this new feature which allows you to see a listing of MeSH terms. Very simply, this can be done by typing any word on a SUBJECT line of the Input screen and pressing the F10 key. You will then be shown a numbered display of 20 MeSH terms alphabetically adjacent to the word you entered. You may select any term from the display by its number and also move around the entire listing in search of other terms you may want to select. When you have made your selections, you may press the ESCAPE key and be returned to the input screen. The terms you selected will automatically be entered on the SUBJECT line.

Because the list of MeSH terms is so large (over 14,000 terms), a second floppy disk will be included with Version 2.0. If you install Version 2.0 onto your hard disk you should note the increased space requirement for the MeSH file is 341,376 bytes.

ADDITIONAL CITATION FORMAT ADDED

The new version allows you to specify whether your retrieval is to be downloaded with or without the MeSH terms. Downloading without MeSH terms reduces your connect time as well as the number of characters you receive and is, therefore, more economical. However, if you choose not to download MeSH terms, you will not be able to utilize the relevancy feature which suggests MeSH terminology.

DOWNLOADING & FILE TRANSFERS

GRATEFUL MED users with floppy disk systems will be pleased to know that Version 2.0 warns them when their downloaded retrieval exceeds the capacity of their disk and prompts them to insert another disk for the "overflow" retrieval.

Users will be glad to hear that Version 2.0 has added another option for handling the data after it is downloaded. You may now either print the reformatted citations on your printer or copy them to a file that you name on any drive you specify.

ELIMINATION OF MEDLINE FRONTFILE OVERWRITE

Version 2.0 no longer overwrites the MEDLINE (frontfile) search results if you choose to perform a backfile search.

DOWNLOADING FUTURE VERSIONS

This new version also includes a feature which will let you download future versions of GRATEFUL MED from a host computer. Announcements will be made in advance of new versions becoming available, and if you miss those, GRATEFUL MED will automatically alert you that you are not using the most current version.

ESCAPE DURING INPUT SCREEN SEARCH

Version 2.0 uses the F9 key to interrupt an Input screen search and allow the user to interact directly with the NLM computer.

IMPORTANT NOTICE

The Version 2.0 installation procedures, found in Part 4 of the new User's Guide, are different from the procedures for Version 1.0. Please be sure to read the Version 2.0 installation procedures before attempting to use GRATEFUL MED Version 2.0.

NEXT MONTH: More information on Version 2.0.

GRATEFUL MED users should also note the following articles and/or features in this issue:

NTIS TO BEGIN CHARGING INTEREST ON OVERDUE MEDLARS ACCOUNTS, p.1.

TECHNICAL NOTES, p.3.

NLM GAPS PROJECT: IMPACT ON MEDLINE, p.16.

The National Technical Information Service is now mailing out copies of Version 2.0 of GRATEFUL MED gratis, along with a new User's Guide, to all who purchased Version 1.0.

NLM Gaps Project: Impact on MEDLINE

NLM's Technical Services Division and Public Services Division have recently intensified efforts to identify and fill serial gaps in NLM's collection. (See the December 1986 *NLM News* for more information.) Some older issues from MEDLINE journals are now being indexed as the gaps are filled. As a result, citations to articles with old publication dates may appear in SDILINE and MEDLINE. For example, the February 1987 SDILINE of 22,329 citations contained 474 citations from 54 "gap issues" of indexed journals with publication dates of 1984 or earlier.

Some users may find the appearance of "old" articles in SDILINE and MEDLINE bothersome, but NLM thinks it is important to provide MEDLARS users with complete bibliographic coverage.

It is NLM's policy not to publish citations to gap issues in the monthly *Index Medicus*. They are, however, included in the *Cumulated Index Medicus* and therefore must be entered into MEDLINE. These newly indexed citations to older issues may also appear in Automatic SDI searches and other MEDLARS databases that contain MEDLINE data such as CANCERLIT, HEALTH, and TOXLINE.

Users who discover that NLM has not indexed a particular issue of a regularly indexed journal may contact the MEDLARS Management Service Desk to report the gap. Remember that citations to issues which are indexed long after their publication dates may not appear in the backfile which corresponds to their year of publication. Therefore, searchers may need to check several databases when looking for a certain citation or journal issue, particularly with the implementation of this gaps project.

Monthly Search Hint:

Indexing Note: AGED, 80 AND OVER

Elizabeth J. Van Lenten, Ph.D.
Index Section, NLM

The term AGED, 80 AND OVER has been added as a new major descriptor for 1987, with entry terms of CENTENARIAN, NONAGENARIAN, OCTOGENARIAN and OLDEST OLD. The data form (DF) abbreviation AGED 80 has also been added and can be used for online searching. It does not appear in the printed *Medical Subject Headings -- Annotated Alphabetic List, 1987* as a data form (DF) in the annotation, but will be added to the 1988 edition.

The check tag AGED is required any time humans 65 years or older are identified in indexed articles. Only if the article specifically identifies the over-80 group will the additional term AGED, 80 AND OVER be used. (The relationship is analogous to that between the check tag INFANT, NEWBORN and those terms indented under it in the M1.471 tree.)

When a subject of an article is 80 years old or older, indexers will routinely index with this heading, as well as checking the tag AGED. In most cases, the heading, AGED, 80 AND OVER, will be NIM (i.e., will not be preceded by an asterisk). This heading is being used as IM (i.e., with an asterisk) only for the psychological, sociological, or philosophical aspects of persons in this age group.

Figure 1 summarizes the various uses of the new term. Please note that the embedded AND must be disguised for searching, e.g.: AGED, 80 A#D OVER. Remember that the see references AGED 80 and OLDEST OLD can also be used for searching.

The uses of the term for searching may be summarized as follows: To restrict a search to articles dealing with individuals 65 years and older, use AGED in the search strategy. To restrict a search to articles dealing with individuals 80 years and older, use AGED, 80 AND OVER. (Remember, this term retrieves only citations entered since the 8701 Entry Month (EM) and that this retrieval is a subset of the AGED retrieval.) To restrict a search to articles dealing primarily with the psychological, sociological, or philosophical aspects of individuals 65-79 years old, use *AGED in the search strategy. To restrict a search to articles dealing primarily with the psychological, sociological, or philosophical aspects of individuals 80 years and older, use *AGED, 80 AND OVER. For comprehensive retrieval on these aspects in the aged, combine the two headings (e.g., *AGED OR *AGED, 80 A#D OVER) or EXPLODE *AGED (as AGED, 80 AND OVER is indented under AGED). *All* of the citations in these four groups will have the check tag AGED on them.

In short, the uses of the check tag AGED have not changed; and the IM heading *AGED now refers to the group 65-79 years of age, or to a group when the author does not specify the oldest age discussed. The new term merely adds a further level of specificity to deal with an increasingly longer-lived population.

Article Content	Age-related MeSH Headings Used 1/
Age 79 case report	AGED
Age 80 case report	AGED AGED, 80 A#D OVER
Age 79 & 80 case report	AGED AGED, 80 A#D OVER
Age 66-79 range	AGED
Age 80-90 range	AGED AGED, 80 A#D OVER
Age 66-90 range	AGED AGED, 80 A#D OVER
Aged as a political force (65-79)	*AGED
Aged as a political force (65-90)	*AGED, 80 A#D OVER *AGED
"Over-65's as a political force"	*AGED
"Over-80's as a political force"	*AGED, 80 A#D OVER AGED

1/ NOTE: The embedded AND in the new heading must be disguised for searching with a hash mark in place of one of the letters so that the system does not interpret the word as the Boolean operator, e.g.:

AGED, 80 A#D OVER

Figure 1

Serials Update

INDEXED TITLES UPDATE, MARCH 1987

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, FEBRUARY 1987

INI AD NURSE
AD NURSE
1N1,JAN 1986?--
DATA DESIGN
FRANKSVILLE WI UNITED STATES
INDEXING BEGAN WITH V2N1,1987.
IN PROCESS 0887-2198
SR0058572 JC: AUR

IM ANNUAL REVIEW OF CELL BIOLOGY
ANNU REV CELL BIOL
1,1985--
ANNUAL REVIEWS
PALO ALTO CA UNITED STATES
INDEXING BEGAN WITH V1,1985.
W1 AN77G 0743-4634
SR0050767 JC: ARB
ANNUAL REVIEWS INC.,4139 EL CAMINO WAY,PALO ALTO CA 94306

INI AXONE
AXONE
1N1,1979--
PUBLISHED BY FORD PUBLISHING FOR THE CANADIAN ASSOCIATION OF NEUROLOGICAL AND NEUROSURGICAL NURSES
DARTMOUTH CANADA
INDEXING BEGAN WITH V8N2,DEC 1986.
ON ORDER
SR0059002 JC: AXO

IM DIABETIC MEDICINE
DIABETIC MED
1N1,MAY 1984--
WILEY
CHICHESTER ENGLAND
JOURNAL OF THE BRITISH DIABETIC ASSOCIATION.
INDEXING BEGAN WITH V1N1,1984.
W1 DI174 0742-3071
D09300500 JC: DME
JOHN WILLEY & SONS LTD.,BAFFINS LANE,CHICHESTER SUSSEX PO19 1UD,ENGLAND

IM DIGESTIVE DISEASES
DIG DIS
4N1,APR 1986--
S. KARGER
BASEL SWITZERLAND
CONTINUES: SURVEY OF DIGESTIVE DISEASES.
INDEXING BEGAN WITH V4N1,1986.
W1 DI57D 0257-2753
SR0056714 JC: DDS

IDL HIGASHI NIPPON SHIGAKU ZASSHI
HIGASHI NIPPON SHIGAKU ZASSHI
1N1,DEC 1982--
HIGASHI NIPPON GAKUEN DAIGAKU SHIGAKKAI
HOKKAIDO JAPAN
INDEXING BEGAN WITH V5N1,1986.
IN PROCESS 0910-9722
SR0057773 JC: GHV

IM HUMAN REPRODUCTION
HUM REPROD
1N1,JAN 1986--
IRL PRESS FOR THE EUROPEAN SOCIETY OF HUMAN REPRODUCTION AND EMBRYOLOGY
OXFORD ENGLAND
SUPPLEMENTS ACCOMPANY SOME VOLS.
INDEXING BEGAN WITH V1N1,1986.
W1 HU461F 0268-1161
SR0055231 JC: HRP
IRL PRESS,P.O. BOX Q,MCLEAN VA 22101-0850

INI INFECTION CONTROL CANADA
INFECT CONTROL CAN
1N1,NOV/DEC 1986--
HEALTH MEDIA
TORONTO CANADA
INDEXING BEGAN WITH V1N1,NOV-DEC 1986.
IN PROCESS 0833-076X
SR0058806 JC: ICC

IM INTERNATIONAL CLINICAL PSYCHOPHARMACOLOGY
INT CLIN PSYCHOPHARMACOL
1N1,JAN 1986--
CLINICAL NEUROSCIENCE PUBLISHERS
LONDON ENGLAND
INDEXING BEGAN WITH V1N1,1986.
IN PROCESS 0268-1315
SR0056216 JC: ICP
LAWRENCE ERLBAUM ASSOCIATES,365 BROADWAY,HILLSDALE NJ 07642

IM JOURNAL OF ARTHROPLASTY
J ARTHROPLASTY
1N1,1986--
CHURCHILL LIVINGSTONE
NEW YORK UNITED STATES
INDEXING BEGAN WITH V1N1,1986.
IN PROCESS 0883-5403
SR0054476 JC: JAY
JOURNAL OF ARTHOPLASTY,TRANSACTION INC.,RUTGERS THE STATE UNIVERSITY,NEW BRUNSWICK NJ 08903

IM PANCREAS
PANCREAS
1N1,1986--
RAVEN PRESS
NEW YORK UNITED STATES
INDEXING BEGAN WITH V1N1,1986.
W1 PA465 0885-3177
SR0055438 JC: PRS

IDL QUINTESSENZ-IMPULSE
QUINTESSENZ IMPULSE
N1,OCT 1986--
QUINTESSENZ
BERLIN GERMANY, WEST
INDEXING BEGAN WITH N1,OCTOBER 1986.
ON ORDER
SR0058900 JC: QU8
QUINTESSENZ VERLAG-GMBH,IFENPFAD 2-4,POSTFACH 42 04 52,1000 BERLIN 42,WEST GERMANY

IM SARCOIDOSIS
SARCOIDOSIS
1N1,SEP 1984--
BONGRAF ITALIANA
MILANO ITALY
INTERNATIONAL COMMITTEE ON SARCOIDOSIS.
INDEXING BEGAN WITH V1N1,1984.
W1 SA9428T 0393-1447
SR0050580 JC: SAR
BONGRAF ITALIANA,VIA CURIO DENTATO 5,20146 MILAN,ITALY

IM YEAR IN IMMUNOLOGY
YEAR IMMUNOL
1982--
KARGER
BASEL SWITZERLAND
VOLUMES FOR 1982-83 ISSUED AS SURVEY OF IMMUNOLOGIC RESEARCH (W1 SU921H).
INDEXING BEGAN WITH THE 1984-85 ISSUE.
W1 YE397 0256-2308
SR0054936 JC: YII

TITLE CHANGES, FEBRUARY 1987

IDL COMPENDIUM
COMPENDIUM
7N8,SEP 1986--
DENTAL LEARNING SYSTEMS
NEWTOWN PA UNITED STATES
CONTINUES: COMPENDIUM OF CONTINUING EDUCATION IN DENTISTRY.
IN PROCESS
SR0058880 JC: COP

HLI HEALTH TECHNOLOGY: CRITICAL ISSUES FOR NEW DECISION MAKERS
HEALTH TECH CRIT ISSUES NEW DECIS MAK
1987--
ECRI
PLYMOUTH MEETING PA UNITED STATES
CONTINUES: JOURNAL OF HEALTH CARE TECHNOLOGY.
ON ORDER
SR0058847 JC: FYD

IM INTERNATIONAL DISABILITY STUDIES
INT DISABIL STUD
9N1,1987--
EULAR PUBLISHERS
BASEL SWITZERLAND
CONTINUES: INTERNATIONAL REHABILITATION MEDICINE.
ON ORDER
SR0058736 JC: HES

IDL PROBE
PROBE
20N3,SEP 1986--
CANADIAN DENTAL HYGIENISTS ASSOCIATION
OTTAWA CANADA
CONTINUES: CANADIAN DENTAL HYGIENIST.
IN PROCESS
SR0058959 JC: POB

IM REVIEWS OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY
REV ENVIRON CONTAM TOXICOL
98,1986--
SPRINGER VERLAG
NEW YORK UNITED STATES
CONTINUES: RESIDUE REVIEWS.
ON ORDER
SR0056814 JC: REC

IM SONDERBANDE ZUR STRAHLENTHERAPIE UND ONKOLOGIE
SONDERB STRAHLENTHER ONKOL
81,1987--
URBAN UND SCHWARZENBERG
MUNCHEN GERMANY, WEST
CONTINUES: STRAHLENTHERAPIE. SONDERBANDE.
SUPPLEMENT TO: STRAHLENTHERAPIE UND ONKOLOGIE.
W1 SO8877D
SR0058902 JC: VBI

TITLES NO LONGER INDEXED AS OF FEBRUARY 1987

HLI EMERGENCY PLANNING DIGEST
EMERG PLANN DIG
EMERGENCY PLANNING CANADA
OTTAWA CANADA
THIS TITLE IS NOT IN THE NLM COLLECTION
INDEXING CEASED WITH V13N4,OCT-DEC 1986.
AHA
E06090000 JC: EF2

INI JOURNAL OF NEPHROLOGY NURSING
J NEPHROL NURS
1N1,JUL/AUG 1984-3N3,MAY/JUN 1986
PHOENIX EDUCATIONAL SYSTEMS
ASHLAND CITY TN UNITED STATES
INDEXING BEGAN WITH V1N1,1984.
W1 JO777W 0748-5328
SR0051666 JC: JNN

IM REHABILITATION LITERATURE
REHABIL LIT
17,1956-47,1986
NATIONAL EASTER SEAL SOCIETY
CHICAGO UNITED STATES
CONTINUES BULLETIN ON CURRENT LITERATURE.
NATIONAL SOCIETY FOR CRIPPLED CHILDREN AND ADULTS.
ZW 1 N2765B 0034-3579
R11120000 JC: R35

IM SPECIAL TOPICS IN ENDOCRINOLOGY AND METABOLISM
SPEC TOP ENDOCRINOL METAB
1,1979-7,1985
LISS
NEW YORK UNITED STATES
INDEXING BEGAN WITH V3,1982.
W1 SP302 0193-0982
S35230000 JC: VB3

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES, FEBRUARY 1987

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH and POPLINE are listed in the "INDEXED TITLES UPDATE" section. 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, please contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ADVANCES IN COLLOID AND INTERFACE SCIENCE
1N1,MAR 1967--
ELSEVIER
AMSTERDAM NETHERLANDS
IN PROCESS
SR0058866

ANNALI ITALIANI DI MEDICINA INTERNA
1N1,MAR 1986--
EDIZIONI LUIGI POZZI
ROMA ITALY
IN PROCESS
SR0058976

ARCHIVOS DEL INSTITUTO NACIONAL DE NEUROLOGIA Y NEUROCIRUGIA
1N1,1987--
INSTITUTO NACIONAL DE NEUROLOGIA Y NEUROCIRUGIA
MEXICO MEXICO
ON ORDER
SR0058886
INSTITUTO NACIONAL DE NEUROLOGIA Y NEUROCIRUGIA,INSURGENTES SUR 3877,TLALPAN MEXICO DF 14000

ASPECTS OF RENAL CARE
1,1986--
BAILLIERE TINDALL
LONDON ENGLAND
IN PROCESS
SR0058931
BAILLIERE TINDALL,1 ST ANNES ROAD,EASTBOURNE EAST SUSSEX BN21 3UN,ENGLAND

BIOMEDICAL IMAGING AND COMMUNICATIONS
JAN, 1987--
BIOMEDICAL IMAGING AND COMMUNICATIONS
NEW YORK UNITED STATES
IN PROCESS
SR0059008
BIOMEDICAL IMAGING AND COMMUNICATIONS,50 WEST 23RD STREET,NEW YORK NY 10010

CAP TODAY
1N1,JAN 1987--
COLLEGE OF AMERICAN PATHOLOGISTS
SKOKIE IL UNITED STATES
IN PROCESS
SR0058949
COLLEGE OF AMERICAN PATHOLOGISTS,5202 OLD ORCHARD ROAD,SKOKIE IL 60077-1034

CHEM INFORM
18N1,1987--
VERLAG CHEMIE
WEINHEIM GERMANY, WEST
CONTINUES: CHEMISCHER INFORMATIONSDIENST.
IN PROCESS
SR0058987 $1,204.00
VERLAG CHEMIE,PAPPELALLEE 3,POSTFACH 1260/1280,D-6940 WEINHEIM,WEST GERMANY

CRITICAL REVIEWS IN MEDICAL INFORMATICS
1N1,1986--
CRC PRESS
BOCA RATON FL UNITED STATES
ON ORDER
SR0058892
CRC PRESS INC.,2000 CORPORATE BLVD. N.W.,BOCA RATON FL 33431

CURRENT TOPICS IN INFECTIOUS DISEASES AND CLINICAL MICROBIOLOGY
1,1986--
VIEWEG
BRAUNSCHWEIG GERMANY, WEST
ON ORDER
SR0059003

CURRENT TOPICS IN PULMONARY PHARMACOLOGY AND TOXICOLOGY
1,1986--
ELSEVIER
NEW YORK UNITED STATES
ON ORDER
SR0058951

DIRECTORY OF MEDICAL AUDIO/VISUAL PROGRAMS FOR THE HEALTH SCIENCES AND RELATED FIELDS
1987--
MED/AV PUBLISHING CO
HAWTHORNE NJ UNITED STATES
IN PROCESS
SR0058948
MED/AV PUBLISHING CO.,521 LAFAYETTE AVENUE,HAWTHORNE NJ 07506

DYNAMIC CARDIOVASCULAR IMAGING
1N1,APR 1987--
DYNAMEDIA INC
SILVER SPRING MD UNITED STATES
ON ORDER
SR0058967

EUROPEAN JOURNAL OF VASCULAR SURGERY
1,1987--
GRUNE AND STRATTON
ORLAND FL UNITED STATES
ON ORDER
SR0058944 $150.00

GYNECOLOGICAL ENDOCRINOLOGY
1,1987--
PARTHENON
PARK RIDGE NJ UNITED STATES
ON ORDER
SR0058953
PARTHENON PUBLISHING,120 MILL ROAD,PARK RIDGE,NJ 07656

HUFELAND-JOURNAL
1,1986--
HAUG
HEIDELBERG GERMANY, WEST
BIOLOGISCHE-MEDIZIN ZENTRALORGAN. ZEITSCHRIFT DER HUFELANDGESELLSCHAFT FUR GESAMTMEDIZIN.
ON ORDER
SR0058905

IMMUNOLOGY FOR THE PRACTICING PHYSICIAN
1N1,AUG 1986--
HEALTHMARK
NEW YORK UNITED STATES
IN PROCESS
SR0058930

INTERNATIONAL JOURNAL OF DENTAL ABSTRACTS
1,1987--
ANN ARBOR MI UNITED STATES
ON ORDER
SR0058927 $100.00

JOURNAL OF COMPUTER-AIDED MOLECULAR DESIGN
1N1,APR 1987--
ESCOM SCIENCE PUBLISHERS
LEIDEN NETHERLANDS
ON ORDER
SR0058968 $152.00
ESCOM SCIENCE PUBLISHERS,BOX 214,2300 AE LEIDEN,NETHERLANDS

JOURNAL OF MEDICAL COLLEGES OF PLA
1N1, 1986--
MEDICAL COLLEGES OF PLA
BEIJING CHINA
IN PROCESS
SR0059007
EXPORT DEPARTMENT OF CHINA,NATIONAL PUBLICATIONS IMPORT AND EXPORT CORPORATION,P.O. BOX 88,137 CHAO NEI STREET,BEIJING CHINA

MULTIPLE SCLEROSIS RESEARCH REPORTS
1,1987
DEMOS PUBLICATIONS
NEW YORK UNITED STATES
CONTINUES: MULTIPLE SCLEROSIS INDICATIVE ABSTRACTS.
ON ORDER
SR0058978
DEMOS PUBLICATIONS,156 FIFTH AVE.,SUITE 1018,NEW YORK NY 10010

PREVENTION REPORT
JAN 1987?--
U.S. PUBLIC HEALTH SERVICE, OFFICE OF DISEASE PREVENTION AND HEALTH PROMOTION
WASHINGTON UNITED STATES
IN PROCESS
SR0058943
PUBLIC HEALTH SERVICE,U.S.DEPARTMENT OF HEALTH AND HUMAN SERVICES,330 C STREET S.W.,ROOM 2132,WASHINGTON DC 20201

RESEARCH FORUM
1,1985?--
PALMER COLLEGE OF CHIROPRACTIC
DAVENPORT IA UNITED STATES
ON ORDER
SR0058958 $20.00
PALMER COLLEGE OF CHIROPRACTIC,1000 BRADY ST.,DAVENPORT IA 52803

SHIGA IKA DAIGAKU ZASSHI
1,1986--
SHIGA IKA DAIGAKU ZASSHI KANKOKAI
OZUSI JAPAN
IN PROCESS
SR0058914

SPRINGER SERIES IN BIOPHYSICS
1,1987--
SPRINGER
BERLIN GERMANY, WEST
IN PROCESS
SR0058960 $71.50

TRENDS IN REHABILITATION
SPRING,1986?--
BRYN MAWR REHABILITATION HOSPITAL
MALVERN PA UNITED STATES
ON ORDER
SR0058971
TRENDS IN REHABILITATION,BRYN MAWR REHABILITATION HOSPITAL,MALVERN PA 19355

VISION AND VISUAL HEALTH CARE
1,1986--
PERGAMON PRESS
OXFORD ENGLAND
IN PROCESS
SR0059000

APPENDIX A

2400 BAUD ACCESS TO MEDLARS
Use numbers followed by ($) in phones list.

TELENET

USER: [Dial number and connect terminal.]

USER: @ (CR)

TELENET: TERMINAL =

USER: [Enter your TELENET terminal identifier.] (CR)

TELENET: @

USER: C 301 20 (CR)

TELENET: 30120 CONNECTED

USER: /LOGIN (CR)

TYMNET

USER: [Dial number and connect terminal.]

USER: [Enter your TYMNET terminal identifier.]
[Do not follow identifier with ENTER or (CR) key.]

TYMNET: PLEASE LOG IN:

USER: NLMMENU (CR)

TYMNET: NLM Main Menu

1 ELHILL (Bilbiographic Retrieval)
2 MEDLEARN (Computer Assisted Instructions for MEDLINE)
3 PDQ (NCI Cancer Information)
4 TOXNET (Toxicology Data Network)
5 DOCLINE/TSO (IBM Timesharing Option)

Q Log Off

Please select a service number >>

USER: [Select appropriate number.] (CR)

*U.S. G.P.O. 1987-181-305:60001

GRATEFUL MED Users
See page 12

The NLM Technical Bulletin

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APRIL 1987
No. 216

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Live Broadcast - GRATEFUL MED Via the Hospital Satellite Network

Patricia C. Buchan
NLM Online Services Training Coordinator
MEDLARS Management Section, NLM

On January 22, 1987, the National Library of Medicine (NLM) and the Veterans Administration (VA) sponsored a live teleconference entitled "*Introducing GRATEFUL MED: Easy Access to the World's Biomedical Literature.*" The two-hour program was broadcast over the Hospital Satellite Network to 22 Veterans Administration Medical Centers in ten states located throughout the Western region of the U.S. Nearly 600 health professionals, librarians, information specialists, and others attended the teleconference and participated in the program.

"*Introducing GRATEFUL MED*" was primarily designed to inform interested health professionals about the availability of NLM's new user-friendly software for accessing the Library's online databases. John Gronvall, M.D., Acting Medical Director, VA, and Donald A.B. Lindberg, M.D., Director, NLM, provided opening remarks.

Continued on page 14.

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • National Institutes of Health
National Library of Medicine

DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
(ELHILL SYSTEM)				
AVLINE	15,949	THROUGH 1987	30 APR 87	
BIOETHICS	22,402	JAN 73-1986	04 APR 87	8704(EM)
CANCERLIT	583,694	JAN 63-MAY 87	02 MAY 87	8705(EM)
CANCERPROJ	10,183	THROUGH 1986	05 JUL 86	8607(EM)
CATLINE	615,202	THROUGH 1987	30 APR 87	
CHEMLINE	740,433		05 MAY 87	8704(EM)
CLINPROT	5,980		18 APR 87	8704(EM)
DIRLINE	15,557		07 FEB 87	
HEALTH	375,773	JAN 75-MAY 87	15 APR 87	8705(EM)
HISTLINE	76,274		04 APR 87	8704(EM)
MEDLINE	626,399	JAN 85-JUN 87	02 MAY 87	8706(EM)
MED83	584,278	JAN 83-DEC 84	21 MAR 87	
MED80	804,720	JAN 80-DEC 82	21 MAR 87	
MED77	775,038	JAN 77-DEC 79	21 MAR 87	
MED75	642,573	JAN 75-DEC 76	21 FEB 87	
MED71	882,890	JAN 71-DEC 74	07 MAR 87	
MED66	954,361	JAN 66-DEC 70	04 APR 87	
MESH VOC	60,547	1987	27 APR 87	
NAME AUTH	284,573		02 MAY 87	
POPLINE	150,564	1970-APR 87	15 APR 87	8704(EM)
RTECS	86,969	THROUGH JAN 87	10 MAR 87	
SDILINE	27,675	JUN 87	02 MAY 87	8706(EM)
SERLINE	68,778	1987	16 APR 87	
TOXLINE	964,720		18 APR 87	8704(EM)
CBAC	518,674	1981-VOL 106(5,6,7)		
TOXBIB	193,254	1981-MAY 1987		
IPA (ASHP)	44,738	1981-VOL 24(7,8)		
BIOSIS	64,484	1985-MAR 1987		
HEEP	49,788	1981-85 V.14(8)		
PESTAB	1,536	1981		
EMIC	12,901	1981-MAR 1986		
ETIC	15,176	1981-NOV 1986		
TD3	27,562	1981-GRA&I 86(26); 87(1,2)		
HMTC	2,746	1981-APR 1987		
ILO	5,460	1981-MAR 87		
RPROJ/CRISP	16,086	FISCAL YEARS 1983, 1984, 1985		
ANEUPLOIDY	3,593	1969-JUN 1986		
EPIDEMIOLOGY	8,722	1940-JAN 1987		
TOXBACK76	555,808		27 AUG 84	
CBAC	298,383	1976-1980		
TOXBIB	106,643	1976-1980		
IPA(ASHP)	33,321	1976-1980		
HEEP	63,796	1976-1980		
PESTAB	14,757	1976-1980		
EMIC	17,267	1976-1980		
ETIC	11,970	1976-1980		
TD3	9,671	1976-1980		
TOXBACK65	598,424		27 AUG 84	
CBAC	287,992	1965-1975		
TOXBIB	155,387	1965-1975		
IPA(ASHP)	33,876	1969-1975		
HEEP	54,075	1970-1975		
HAPAB/PESTAB	18,416	1968-1975		
EMIC	19,554	1950-1975		
ETIC	13,694	1950-1975		
TD3	839	PRE-1965-1975		
HAYES	10,039	1940-1968		
TMIC	4,552	1940-1975		
(TOXNET SYSTEM)				
CCRIS	1,165		28 APR 87	
HSDB	4,150		27 APR 87	

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(301) 496-6193

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MEDLARS Management Section
National Library of Medicine
Bldg., 38A, Rm. 4N421
Bethesda, Maryland 20894

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Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 that is considered most relevant to the item being discussed, e.g., (Manual 4.7.2). Users should keep in mind that the item may pertain to other sections of the Manual as well.

MEMORIAL DAY HOLIDAY SCHEDULE

The NLM computer will be up on a guaranteed basis on Monday, May 25, 1987, the day of the federal government's observance of Memorial Day. Non-prime rates will be in effect all day and the MEDLARS Management Service Desk will not be staffed. DOCLINE will be up on a non-guaranteed basis on Monday, May 25, but the DOCLINE Service Desk will not be staffed. On Memorial Day, Saturday, May 30, 1987, the NLM computer will be up all day on the regular Saturday non-guaranteed schedule at non-prime rates. DOCLINE will not be up on this day. The TOXNET computer system status is always guaranteed with non-prime rates in effect on all holidays. Please see the October 1986 *NLM Technical Bulletin*, Appendix C, for the complete 1987 holiday schedule.

GRATEFUL MED, VERSION 2.0

Distribution of GRATEFUL MED, Version 2.0 officially began on March 14. The package includes the new software (2 floppy disks) as well as an improved User's Guide. Those who purchased GRATEFUL MED, Version 1.0 will automatically receive Version 2.0 in the mail from NTIS at no additional charge. Distribution to Version 1.0 purchasers will be on a staggered basis several weeks. Version 2.0 contains many enhancements, including the addition of the MeSH Vocabulary terms. See the GRATEFUL MED column in the March issue of the *NLM Technical Bulletin* as well as this month's column for descriptions of these enhancements.

CATLINE/AVLINE UPDATE SCHEDULE CHANGE

Effective April 23, 1987, CATLINE and AVLINE are now updated every Thursday night when the computer comes down for post-processing. The updated files are available after the computer comes back up Thursday night around 11:30 p.m. ET. Previously, these two databases were updated weekly on Thursday mornings from approximately 7-8:30 a.m. ET, during which time the files were unavailable for searching. The new update schedule occurs only slightly later in the week and permits greater availability of these two MEDLARS databases. Please refer also to the article entitled "Regeneration of CATLINE/AVLINE" on page 5 of this issue for information on changes to these two databases.

"NEW SERIAL TITLES AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES" LIST TO BE DISCONTINUED

The Technical Services Division of NLM is discontinuing with this issue of the *NLM Technical Bulletin* the section entitled "New Serial Titles and Title Changes Announcement, Non-Indexed Titles." This list has always represented only a selected group of NLM serial titles, and not the complete serials acquisitions of the Library. With NLM's growing number of MEDLARS users, the space gained will allow more room for articles that could be useful to a larger number of *NLM Technical Bulletin* readers.

Users who want to produce an updated comprehensive list of all ON ORDER and IN PROCESS serial titles can easily do so by searching SERLINE and ranging on the DA (Date of Entry) data element. For example, to get a list of all ON ORDER and IN PROCESS records that were added to SERLINE in January and February, the

search strategy would be:

```
SS 1 /C?
USER:
(ca) on order or in process

PROG:
SS (1) PSTG (2624)

SS 2 /C?
USER:
1 and from 870101 to 870229 (da)

PROG:
S (2) PSTG (132)
```

Please note that the other portions of the Serials Update Section of the *NLM Technical Bulletin* will be continued, because they deal with journal titles indexed for MEDLARS databases.

NLM SERIAL PUBLICATIONS

The *Index of NLM Serial Titles*, a "keyword-out-of-context" index of serial titles in the NLM collection, has ceased publication with the 5th edition, 1984. The Government Printing Office (GPO) has announced that no more copies are available. However, all of the information that was available in the *Index*, and more, is easily accessible in the SERLINE database and in *Health Sciences Serials*, a quarterly microfiche publication of all NLM serial titles.

SERLINE, which is updated every 4 to 6 weeks, is an excellent substitute for the keyword index, as all titles, cross-references, and publishers are searchable by Text Word (TW). For example, a patron is uncertain of the exact title wanted, but knows the title includes the words "biotechnology" and "reviews." A TW search in SERLINE reveals:

```
SS 1 /C?
USER:
(tw) biotechnology and reviews

PROG:
SS (1) PSTG (2)

SS 2 /C?
USER:
prt ti
```

The search request has been narrowed to two possible titles.

Health Sciences Serials (*HSS*) is another source of serial title information. GPO has recently announced a price reduction for *HSS* in 1987 to $10.00 for a one-year subscription, down from $15.00 per year in 1986. The foreign price is $12.50 per year. Individual copies may be purchased for $2.75 each ($3.44 foreign).

HSS includes bibliographic, subscription, and holdings information for all titles that are in the SERLINE database. Approximately 500 entries are added quarterly. It lists locator information for 150 major biomedical libraries throughout the United States.

CLINPROT INDEX TERM LISTING

The CLINPROT Index Term listing for March 1987 is now available. It may be requested by writing to the MEDLARS Management Section. Please include a self-addressed label with your request. No return postage is necessary.

Please access **FILE INFORM** *and type* **NEWS** *to see the most recent news items online!*

Regeneration of CATLINE/AVLINE

Carolyn N. Davis
Technical Services Division

The regeneration of the CATLINE and AVLINE files, completed on April 23, consists of new indexing rules for names as subjects, the addition of a new searchable century tag, new valid values for shelving locations, and the update of MeSH terms to the 1987 vocabulary. The changes are described below with the database(s) affected indicated in parentheses.

NEW SEARCH TECHNIQUES

A. PERSONAL NAMES, CONFERENCE NAMES, & CORPORATE NAMES AS SUBJECTS (CATLINE & AVLINE)

Personal, conference, and corporate names used as subjects are now indexed separately from their counterpart names as authors. Previously all occurrences of a name used as an author and a subject were indexed as authors only (PN, CN, CNA) even though a name used as a subject was correctly coded (PS, CS, CNS). For example, a direct search for a Personal Name Used as Subject (PS) retrieved records with that name used as author as well as subject because all personal names were computer-indexed as one type, PN. The only way to retrieve names as subjects was to enter a STRINGSEARCH for the specific name type after the initial subset was retrieved.

When a name search is not qualified and the name exists as a personal author (PN) and a subject (PS), the new indexing feature will result in a multi-meaning message for the name as subject and the name as an author. When the name is qualified, for example with (PS), only postings for records about the person will be retrieved.

B. CENTURY TAGS ASSIGNED TO ALL RECORDS (CATLINE)

Because CATLINE now contains many records for older materials in NLM's historical collection, a new searchable century tag has been added to assist in limiting searches by publication date. The century tags have been assigned to all records based on the Year of Publication (Y1) field. This tag resides in the Keyword (KW) field. The century tag can be searched in two ways: directly by qualifying the tag with (KW) or by Text Word searching (TW). Note that the search string is different depending on the method chosen.

Example of direct search of Keyword (KW) field:

20C (KW)

Example of Text Word searching (TW):

20-C (TW)

The list of century tags with the corresponding date ranges is below:

DATE RANGE	TAG
1900-	20C
1800-1899	19C
1700-1799	18C
1600-1699	17C
1500-1599	16C
1400-1499	15C
1300-1399	14C
1200-1299	13C
1199 or earlier	PRE13C

NEW VALID VALUES

SHELVING LOCATIONS (CATLINE & AVLINE)

Shelving locations stored in the Shelving Location (SL) field have been standardized

and changed to the new values listed in Figure 1.

1987 MeSH VOCABULARY (CATLINE & AVLINE)

All records in CATLINE and AVLINE have been updated to reflect the 1987 MeSH vocabulary. All tree numbers and cross references for MeSH on records cataloged in 1987 and earlier point to the new vocabulary.

Until the MeSH update in this April regeneration, CATLINE and AVLINE contained a mixture of 1986 and 1987 terms which required caution in performing EXPLOSIONS using 1987 terms. Searchers can now EXPLODE descriptors as well as tree numbers for all terms. The problem causing the mixed vocabularies in CATLINE and AVLINE files from mid-December to regeneration time is being addressed, and new procedures to prevent this from occurring in the future are being explored.

VALID VALUE	EXPLANATION
PSD/HF	HISTORICAL FILM/PUBLIC SERVICES DIVISION
AVRS/S	A/V MEDIA CENTER/SATELLITE COLL.
DOC	DOCUMENTS COLLECTION
GEN COLL	GENERAL COLLECTION
HMD	HISTORY OF MEDICINE DIV. GEN.COLL.
HMD/ARCH	ARCHIVES OF NLM
HMD/INCUN	INCUNABULA
HMD/MS	MANUSCRIPTS & ORAL HISTORY
HMD/OVR	OVERSIZE
HMD/OVR2	ELEPHANT SIZE
HMD/PP	PRINTS & PHOTOS
HMD/PP/OVR	PRINTS & PHOTOS/OVERSIZE
HMD/REF	REF. COLL - HMD READING RM.
JSB	JOHN SHAW BILLINGS STUDY
LRC	NLM'S LEARNING RESOURCES CENTER
OVRS	OVERSIZE COLLECTION IN GEN. STACKS
REF	REFERENCE COLL. IN NLM'S READING RM.

Figure 1

Broad Phase I and II Protocol Retrieval in PDQ

David J. Perry, M.D.
International Cancer Research Data Bank Branch, International Cancer Information Center, National Cancer Institute

DEFINITION OF PHASE I AND II

Investigational protocols in PDQ are classified by their phase. Phase I trials are the earliest human trials of new drugs that have shown special promise in animal studies. These trials are primarily aimed at establishing a safe dose and schedule for future efficacy trials and to define human toxicity. Phase II trials are the first actual human efficacy trials. Patients with advanced cancers, for whom no existing therapy is effective, are treated with a new drug to see whether the drug causes shrinkage of measurable malignant lesions. In addition, Phase II trials are designed to evaluate patients for toxicities observed in the Phase I trials or not previously noted. If a drug shows activity in Phase II testing, it normally will be used in a Phase III trial comparing the new drug to drugs of known efficacy.

Nearly all Phase I trials and a number of Phase II trials are directed at the full range of human cancers because study data are still insufficient to clearly establish specific activities toward particular tumor types. These are termed "broad phase I and II protocols." The eligibility requirements generally state that patients must have advanced cancers that are resistant to standard therapies.

Previously such protocols were indexed for PDQ with a large number of diagnostic terms covering the whole range of common adult and childhood cancers. For example, if the user entered the term "breast cancer," both protocols specifically focused on patients with breast cancer and the broad Phase I and II protocols were retrieved. Unfortunately, this often led to a very large retrieval of protocols for common cancers. For some less common cancers, nearly all the retrieved protocols were broad Phase I and II protocols and did not specifically mention the term used to retrieve them.

PROTOCOL PHASE INDEXING CHANGE

Protocol indexing is currently being changed to ameliorate these problems. Beginning in April 1987, broad Phase I and II protocols will be retrievable in the following ways:

1. By choosing Phase I or Phase II from the protocol menu without first specifying a diagnosis.

2. By typing in the term "childhood solid tumor" or "adult solid tumor" after selecting option 2 -- diagnosis -- from the protocol menu.

3. By retrieving protocols by drug, then by phase.

Option 1 is currently available; it leads to hundreds of protocol listings and will need to be used with further retrieval criteria such as state or drug.

Option 2 will be implemented in April 1987. Again, a large number of studies will be retrieved with these terms and other criteria will need to be used.

Option 3 is currently available; if the user is interested in specific drug trials, this is the best option.

For users who were accustomed to seeing large numbers of protocols retrieved for common cancer diagnoses, the change in indexing will decrease the number of retrieved protocols significantly. However, these protocol summaries which are retrieved will be specific for the diagnoses. If no specific protocols are retrieved for a given diagnosis, the user will be reminded that protocols can be retrieved using the "adult

solid tumor" and "childhood solid tumor" index terms.

PROTOCOL ENTRY INFORMATION

Finally, users should be aware that investigators are sometimes more restrictive in allowing entry of patients with a malignant diagnosis than the protocol itself would suggest. Therefore, prior to referring a patient to a broad Phase I or II trial, it is wise to contact the investigator to confirm that the diagnosis is in fact appropriate for the trial. In the future, potential chairmen will be asked to provide information on the range of acceptable diagnoses in broad Phase I and II trials.

NLM Automatic SDI Service Update

Joyce A. Conner
MEDLARS Management Section, NLM

P. E. Pothier
MEDLARS Management Section, NLM

The NLM Automatic SDI (Selective Dissemination of Information) service provides for the creation of current awareness bibliographies. It is a useful way for health professionals and others to be supplied with current research in a given subject area. The service is available for SDILINE (most recent monthly update of MEDLINE), TOXLINE, CANCERLIT, HEALTH, POPLINE, AVLINE and CATLINE. Each month when these databases are updated, users who have stored search strategies and have established SDI Service are automatically mailed a printout of citations that match their Automatic SDI stored search formulations.

This article covers two aspects of the Automatic SDI service as offered by NLM. The first is a general overview of the service and the distribution of the revised Automatic SDI Request Form and the second is the information on the impact of adding the Unique Identifier (UI) data element to the standard SDILINE and other database PRINT formats.

GENERAL OVERVIEW AND DISTRIBUTION OF REVISED FORM

Users who wish to begin SDI service may submit one copy of the Automatic SDI Request Form to MEDLARS Management Section for each database on which Automatic SDI service is desired. A revised Automatic SDI Request Form is enclosed with this issue as Appendix A. It is necessary to store the search formulations for the bibliographies in the NLM computer. The searches must be stored using the STORESEARCH command and named according to the SDI-naming conventions. Instructions for these procedures are provided in the *Online Services Reference Manual 1986*, Section 5.2.

Searchers already participating in the Automatic SDI Service may use the Automatic SDI Request Form if they wish to: 1) change their mailing address; 2) change the print and/or sort format for any number range(s); or 3) stop service on a database. Please indicate the database(s) to which the changes should be made. If requesting an address change, a form should be submitted for each database for which the user has Automatic SDI service. The attached form may be used as a master from which to photocopy any additional forms needed for submission. The form is also found in Section 5.2.8 of the *Online Services Reference Manual 1986*, where full instructions also are provided. Users who currently have Automatic SDI serivce and do not wish to make any changes need not resubmit any Automatic SDI forms.

STANDARD PRINT FORMAT CHANGE

NLM added the UI (Unique Identifier) to all standard MEDLINE PRINT formats in the Fall of 1985. (See article in the August 1985 *NLM Technical Bulletin*, p. 1.) Similar enhancements were also made to the SI (Secondary Source Identifier) field in HEALTH and CANCERLIT. These two databases use the SI field rather than the UI field because the data in these databases come from various sources and the format of the SI field permits an alphabetic abbreviation identifying the data supplier, e.g., SI - MED/86004466. Both the UI and SI fields function as accession numbers for the citation and provide a means by which that one citation can be consistently retrieved in one search step. Addition of the unique "number" to the standard PRINT formats was made by NLM largely to assist in document delivery and in quality assurance and error reports. The numerical sequence can also be used when appropriate to request interlibrary

loans through DOCLINE.

DOCLINE accepts UIs from MEDLINE, CATLINE, and AVLINE. Several of the databases with Automatic SDI Service contain MEDLINE-derived records. The UI or SI from these records may also be used in DOCLINE. In CANCERLIT citations derived from MEDLINE, the 8-digit number following MEDL in the SI field is the same as the value in the UI field of MEDLINE. In HEALTH, the 8-digit numeric string following MED in the SI field corresponds to the UI of MEDLINE. For citations from the TOXBIB subfile in TOXLINE, the two digits following the first slash plus the six digits following the second slash equal the MEDLINE UI. Remember that many of these databases also include non-MEDLINE derived data, and the UI or SI for these citations will not work in DOCLINE. The POPLINE SI field contains values that are currently meaningless to DOCLINE.

IMPACT ON AUTOMATIC SDI SERVICE

How does all this relate to NLM's Automatic SDI service? The UI (Unique Identifier) or SI (Secondary Source Identifier) is automatically included in all "standard" PRINTs (unless that print format has been previously changed by the user). "Tailored" print formats do not automatically include the UI or SI. Remember that the print format is governed by the number range that must be the first part of the stored searchname.

Figure 1 indicates for each print format in the Automatic SDI Service whether the UI or SI will automatically be included in the printout. For example, according to Figure 1, the UI will automatically print for SDILINE searches named in the S001-200 number range (STANDARD) and the S201-400 range (FULL INCLUDE AD). The UI is not automatically included in the print formats for the other number ranges of SDILINE. To add the UI data element to the SDILINE Auto SDI printouts for stored searchnames beginning with S401-600, S601-700, or S701-800, submit an Automatic SDI Request Form. In Part II of the Form, the large box for CHANGE should be checked and the smaller box for PRINT AND/OR SORT FORMATS should be checked. Then in PART III, simply write the letter 'S' in the box and put 'INCLUDE UI' on the appropriate Numerical Range line.

SUMMARY

The NLM Automatic SDI Service provides an easy method whereby health professionals and others may keep current with the literature. The Automatic SDI Request Form (revised and attached as Appendix A) is used to initiate service or to specify changes once service is established. Figure 1 indicates for which number ranges the UI or the SI field is automatically included. The NLM Automatic SDI Request Form may be submitted to add the UI or SI to the other formats. Please call the MMS Service Desk, M-F, 8:30 a.m. - 5 p.m. ET, at either (800) 638-8480 or (301) 496-6193 if you have any questions or need assistance.

DATABASE NAME	NUMBER RANGE	PRINT FORMAT OR ELEMENTS	UI OR SI AUTOMATICALLY ON PRINTOUT	SUBMIT A REVISED FORM TO HAVE UI OR SI ON PRINTOUT
AVLINE	A001-200	STANDARD	*YES	NO
	A201-400	LOAN	*YES	NO
	A401-600	FULL	*YES	NO
	A601-700	DETAILED	*YES	NO
	A701-800	USER MUST SPECIFY	NO	*YES
CANCERLIT	C001-200	STANDARD	*YES	NO
	C201-400	FULL	*YES	NO
	C401-600	DETAILED	*YES	NO
	C601-700	AU, TI, AB, PT, SO	NO	*YES
	C701-800	USER MUST SPECIFY	NO	*YES
CATLINE	B001-200	STANDARD	*YES	NO
	B201-400	ACQUISITIONS	*YES	NO
	B401-600	FULL	*YES	NO
	B601-700	DETAILED	*YES	NO
	B701-800	USER MUST SPECIFY	NO	*YES
HEALTH	H001-200	STANDARD	*YES	NO
	H201-400	FULL	*YES	NO
	H401-600	AU, TI, TT, LA, MH, AB, SO	NO	*YES
	H601-700	AR	*YES	NO
	H701-800	USER MUST SPECIFY	NO	*YES
POPLINE	P001-200	STANDARD	*YES	NO
	P201-400	AR	*YES	NO
	P401-600	SD INCLUDE GN, LA, AD, KW	*YES	NO
	P601-700	SD INCLUDE GN, AD	*YES	NO
	P701-800	USER MUST SPECIFY	NO	*YES
SDILINE (MEDLINE)	S001-200	STANDARD	*YES	NO
	S201-400	FULL INCLUDE AD	*YES	NO
	S401-600	AU, TI, TT, LA MH, AB, AD, SO	NO	*YES
	S601-700	AU, TI, AB, SO	NO	*YES
	S701-800	USER MUST SPECIFY	NO	*YES
TOXLINE	T001-200	STANDARD	*YES	NO
	T201-400	FULL	*YES	NO
	T401-600	DETAILED	*YES	NO
	T601-700	SI, AU, CN, TI, AD, SA, SO	*YES	NO
	T701-800	USER MUST SPECIFY	NO	*YES

Figure 1

VERSION 2.0

[Editor's Note: Beginning with this issue, the GRATEFUL MED column will address Version 2.0. We encourage all GRATEFUL MED users to install Version 2.0 as soon as it is received.]

In last month's column we previewed GRATEFUL MED Version 2.0. This month we will describe two features in more detail: MeSH Searching Features and 2400 Baud Access.

MeSH SEARCHING FEATURES

As we mentioned in last month's column, Version 2.0 includes about 14,000 MeSH terms (NLM's controlled vocabulary) which you may use in your searches. If you select terms from the MeSH display screen (accessible with the F10 key from a SUBJECT line of the input screen), you may want to try incorporating two other features. One allows you to EXPLODE terms, and the other to restrict to citations in which the term is the main point of the article.

EXPLODE (+)

As you may know, the NLM's MeSH vocabulary is built on a hierarchy; narrower terms are indented in the hierarchy under terms that are broader in scope. When searching MEDLINE you may EXPLODE a term and thereby search for that term as well as all the related terms considered narrower or more specific. For example, an EXPLODE of the MeSH term ANTI-ARRHYTHMIA AGENTS would search for citations indexed with that term as well as citations indexed with the names of specific drugs with this action.

Note that the EXPLODE command can only be used with MeSH terms and will generally increase the number of citations retrieved.

To EXPLODE a term with GRATEFUL MED, simply type a plus sign (+) before you type in the number of the term from the MeSH display screen.

Many MeSH terms are located in more than one tree of the hierarchy. For example, the term CAROTID ARTERY DISEASES is in both the NEUROLOGIC DISEASES tree and the CARDIOVASCULAR DISEASES tree. If you EXPLODE CAROTID ARTERY DISEASES, GRATEFUL MED must choose to EXPLODE the term in only one of the trees. In this case, GRATEFUL MED will explode the term in the NEUROLOGIC DISEASES tree (because of a programmed selection for the term with the lower tree number). Consequently, the search will retrieve citations indexed with either CAROTID ARTERY DISEASES or CAROTID ARTERY THROMBOSIS, but not with MOYAMOYA DISEASE.

```
C10 - DISEASES-NEUROLOGIC
        CAROTID ARTERY DISEASES
          CAROTID ARTERY THROMBOSIS

C14 - DISEASES CARDIOVASCULAR
        CAROTID ARTERY DISEASES
          CAROTID ARTERY THROMBOSIS
          MOYAMOYA DISEASE
```

To get a better understanding of MeSH's hierarchy you may be interested in obtaining a copy of *Medical Subject Headings - Tree Structures, 1987.* (Available from the National Technical Information Service, Springfield, VA 22161, order number: PB86-227782/GBB; price: $16.00 +$3.00 handling.)

ASTERISK (*)

Occasionally you may want to restrict your search to retrieve only citations to articles which focus on a certain subject. This is easy to do because each record for a citation carries an asterisk on the MeSH terms corresponding to the main point of the article. (Other topics discussed in the article will be identified on the record by MeSH

terms that do not have an asterisk. Topics which are merely mentioned in an article, do not receive MeSH indexing.)

Note that the asterisk can only be used with MeSH terms and will decrease the number of citations a term will retrieve.

GRATEFUL MED will restrict your search to citations with the asterisk on a MeSH term if you enter an asterisk (*) before entering the number of the MeSH term from the display screen.

Combination (+ and *)

Sometimes you may want to combine the EXPLODE capability and the asterisk. That is, you want to search a term as well as the terms more specific to it, but you want to restrict your search to citations where these terms are the major point of the article. Simply type both the "+" and the "*" before entering the number of the MeSH term from the display.

2400 BAUD ACCESS

If you have a 2400 baud modem you must first activate a special SETUP file added to Version 2.0 which allows GRATEFUL MED to communicate with 2400 baud modems. The instructions for activating this special file are not in the User's Guide, but are instead found on a HELP screen accessible while in SETUP.

Start by entering GRATEFUL MED and choosing number 6, SETUP, from the ACTION screen. The first screen you will see will start with, "Do you have a PC Jr or use COM2? (Y/N)." Ignore this question for now and press the HOME key to get to the HELP screens. Press the space bar to get to the fourth HELP screen labeled, "2400 BAUD." Print this screen on your printer (SHIFT/PrtSC) so you can refer to these instructions later. Next, press the ESCAPE key three times; once to get out of the HELP environment, again to get out of SETUP, and finally to exit GRATEFUL MED and return to DOS. Proceed with the instructions on the HELP screen you printed.

The last step of these instructions, "SEARCH (CR)", will take you back into GRATEFUL MED and lead you into SETUP where you can now continue.

If you have only 1200 baud access from your city you must still perform this modification if you have a 2400 baud modem. However, when you enter the TELENET or TYMNET number during SETUP precede the number with an "L" to indicate to GRATEFUL MED that the transmission will be at the lower speed.

GRATEFUL MED users should also note the following articles and/or features in this issue:

LIVE BROADCAST - GRATEFUL MED VIA THE HOSPITAL STAELLITE NETWORK, p.1.

TECHNICAL NOTES, p.3.

Live Broadcast

Continued from page 1.

Four sample MEDLINE searches highlighted the program and served to demonstrate the various types of online searches typically performed through the use of the INPUT form screens of GRATEFUL MED. One of the four searches included a preview of searching MEDLINE using Version 2.0 of GRATEFUL MED.

After details were provided about obtaining copies of the GRATEFUL MED software and applying for a MEDLARS User ID code, a toll-free telephone line was opened up for viewers to call in their questions or comments. Numerous calls were received and answered live by the panel of NLM staff members who had also written and presented the material during the telecast. The panel included Jane Bryant, Patricia Buchan, Jane Rosov, and Kathleen Stenger, all from the MEDLARS Management Section.

Copies of the edited version of "*Introducing GRATEFUL MED*" are available on 3/4" videocassette and can be borrowed from any of the seven Regional Medical Libraries. The Call Number is Z 699.5.M39 VC no.3 1987. These videocassettes can be transferred to other VCR formats and be used to train searchers to access MEDLINE using GRATEFUL MED.

Monthly Search Hint:

MeSH File in Alphabetical Order

Lou Wave S. Knecht
MEDLARS Management Section, NLM

corrected May '87 TB

Retrieval from a search in the MeSH Vocabulary File now prints in alphabetical order. Online and offline printouts are sorted in ascending order (0 through 9 followed by A through Z) by record type rather than descending order (9 through 0 followed by Z through A) by record type as before. The MeSH Vocabulary File contains three record types:

1. the MeSH main heading or descriptor record which is tagged with a value of D in the Record Type (RY) field;

2. the MeSH subheading or qualifier record which is tagged with a value of Q in the RY field; and

3. the supplementary chemical term record which is tagged with a value of C in the RY field.

All supplementary chemical records are now printed first, subheading records next, and MeSH main headings last, if the retrieval contains more than one record type. (This order was previously reversed.) Within record type, output is sorted by Name of Substance (NM) of the supplementary chemical records; Subheading (SH) for the qualifier records; and MeSH Heading (MH) for the descriptor records.

Most searches conducted against the MeSH file will retrieve hits within only one record type rather than across record types. Therefore, the greatest benefit from this change is that lists generated from MeSH now automatically print in alphabetical order. It is no longer necessary to use OFFSEARCH and the SORT= instruction to create useful searching "help sheets" from the online MeSH file. For example, Figure 1 shows how to produce a quick list of all subheadings and their searching abbreviations used in MEDLINE.

Another example is the simple search outlined in Figure 2 to isolate all MeSH headings new for 1987 that have a Data Form (DF) abbreviation for online searching. DF's are abbreviations or acronyms that can be used for searching in place of some of the "longer" MeSH headings; they function like see cross references. The name Data Form is derived from the original use of these abbreviations by the NLM indexers who typed them on data input sheets. (Some NLM contract indexers still use data input sheets.)

Remember, also, that NLM has provided for many other searching terms in addition to DF's by expanding the number and variations of see references found in the BX (Backward Cross Reference) field of the MeSH file records. These see references found in the BX field largely tend to be spelled-out synonyms for the MeSH heading as opposed to abbreviations or acronyms. See the December 1986 *NLM Technical Bulletin*, p. 13.

```
SS 1 /C?
USER:
q (ry)                          To isolate the qualifier or MeSH subheading records.

PROG:
SS (1) PSTG (666)

SS 2 /C?
USER:
1 and 1 (qt)                    To limit to subheadings classified as topical
                                  subheadings - used in both indexing and cataloging.
PROG:
SS (2) PSTG (82)

SS 3 /C?
USER:
ts (qg) not :c:                 To negate the 6 topical subheadings used only in
                                  cataloging and not in indexing for MEDLINE.
PROG:

SS (4) PSTG (76)

SS 5 /C?
USER:
prt sh, qa

PROG:

1
SH  - abnormalities
QA  - AB

2
SH  - administration & dosage
QA  - AD

3
SH  - adverse effects
QA  - AE

  .
  .
  .
  .

74
SH  - urine
QA  - UR

75
SH  - utilization
QA  - UT

76
SH  - veterinary
QA  - VE
```

Figure 1

```
SS 1 /C?
USER:
df (tw)                          To isolate all MeSH headings with a Data Form
                                 (DF) abbreviation that can also be used for
PROG:                            online searching; a DF notation is stored in
SS (1) PSTG (742)                the Annotation (AN) field which is Text Word
                                 searchable.
SS 2 /C?
USER:
1 and all 86: (da)               To limit to MeSH headings new for 1987 (i.e.,
                                 records created in calendar year 1986).
PROG:
SS (2) PSTG (32)

SS 3 /C?                         To print the list of new headings and their
USER:                            indexing annotations.  Note that the DF value is
prt mh, an, de                   stored in two places in the MeSH record: 1) In the
                                 AN (Annotation) field along with other directions
                                 to indexers, and 2) In the DE (Descriptor Entry
                                 Version) field which permits the DF value to
                                 function like a see reference for online searching.
                                 Including the DE field in the PRINT command makes
                                 it easier to spot the DF abbreviation.
PROG:

1
MH  - Alpha-Difluoromethylornithine
AN  - do not use /biosyn /defic /physiol; DF:DFMO
DE  - DFMO

2
MH  - Blood Gas Monitoring, Transcutaneous
AN  - NIM; only /instrum /methods /vet; coord with disease /blood, not
      /physiopathol; when IM, do not coord with OXYGEN /blood or CARBON
      DIOXIDE /blood; DF: TCPO2
DE  - TCP02

.
.
.

31
MH  - 1,2-Dipalmitoylphosphatidylcholine
AN  - /biosyn /physiol permitted; DF: DPPC
DE  - DPPC

32
MH  - 7,8-Dihydro-7,8-Dihydroxybenzo(a)pyrene 9,10-Oxide
AN  - do not use /biosyn /defic /physiol; DF: 7 8 DDBP
DE  - 7 8 DDBP
```

Figure 2

Serials Update

INDEXED TITLES UPDATE, APRIL 1987

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, MARCH 1987

IM FAMILY MEDICINE
FAM MED
13N1,JAN/FEB 1981--
SOCIETY OF TEACHERS OF FAMILY MEDICINE
KANSAS CITY MO UNITED STATES
OFFICIAL JOURNAL OF: THE SOCIETY OF TEACHERS OF FAMILY MEDICINE. CONTINUES: FAMILY MEDICINE TEACHER.
INDEXING BEGAN WITH V17N1,1985.
W1 FA45N 0742-3225
F00685000 JC: FAL
FAMILY MEDICINE, 1740 W 92ND ST, KANSAS CITY MO 64114

TITLE CHANGES, MARCH 1987

HLI CARDIOLOGY MANAGEMENT
CARDIOL MANAGE
1N1,FEB/MAR 1987--
BRENTWOOD PUBLISHING
SANTA MONICA CA UNITED STATES
CONTINUES: APPLIED CARDIOLOGY
IN PROCESS 8750-0426
SR0059023 JC: CAM

HLI CONSULTING-SPECIFYING ENGINEER
CONSULT SPECIF ENG
1N1,JAN 1987--
CAHNERS PUBLISHING COMPANY
DENVER UNITED STATES
MERGER OF: CONSULTING ENGINEER; AND, SPECIFYING ENGINEER. THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V1N1,JAN 1987.
AHA
SR0059017 JC: CSE

HLI CRITICAL CARE NURSING QUARTERLY
CRIT CARE NURS Q
9N4,MAR 1987--
ASPEN PUBLISHERS
FREDERICK MD UNITED STATES
CONTINUES: CCQ. CRITICAL CARE QUARTERLY.
IN PROCESS 0160-2551
SR0059527 JC: CCN

IM EPIDEMIOLOGY AND INFECTION
EPIDEMIOL INFECT
98N1,FEB 1987--
CAMBRIDGE UNIVERSITY PRESS
CAMBRIDGE ENGLAND
CONTINUES: JOURNAL OF HYGIENE.
W1 EP452PE 0950-2688
SR0058325 JC: EPI

IM EUROPEAN JOURNAL OF HAEMATOLOGY
EUR J HAEMATOL
38N1,1987--
MUNKSGAARD
COPENHAGEN DENMARK
CONTINUES: SCANDINAVIAN JOURNAL OF HAEMATOLOGY.
IN PROCESS
SR0059536 JC: ERF

IM EUROPEAN JOURNAL OF HAEMATOLOGY. SUPPLEMENTUM
EUR J HAEMATOL [SUPPL]
47,1987--
MUNKSGAARD
COPENHAGEN DENMARK
CONTINUES: SCANDINAVIAN JOURNAL OF HAEMATOLOGY. SUPPLEMENTUM. SUPPLEMENT TO: EUROPEAN JOURNAL OF HAEMATOLOGY.
W1 EU72DFE 0080-6722
SR0059073 JC: ERG

IM EYE
EYE
1,1987--
OPHTHALMOLOGICAL SOCIETY OF THE UNITED KINGDOM
LONDON ENGLAND
CONTINUES: TRANSACTIONS OF THE OPHTHALMOLOGICAL SOCIETIES OF THE UNITED KINGDOM.
IN PROCESS 0950-222X
SR0059526 JC: EYE

IM FASEB JOURNAL
FASEB J
1N1,JUL 1987--
FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY
BETHESDA MD UNITED STATES
CONTINUES: FEDERATION PROCEEDINGS.
ON ORDER 0892-6638
SR0059554 JC: FAS

IM JOURNAL OF CRANIOMAXILLOFACIAL SURGERY
IDL
J CRANIOMAXILLOFAC SURG
15N1,FEB 1987--
GEORG THIEME VERLAG
STUTTGART GERMANY, WEST
CONTINUES: JOURNAL OF MAXILLOFACIAL SURGERY. OFFICIAL PUBLICATION OF THE EUROPEAN ASSOCIATION FOR CRANIO-MAXILLO-FACIAL SURGERY.
IN PROCESS
SR0059535 JC: HTD

IM OHIO MEDICINE
OHIO MED
83N1,JAN 1987-
OHIO MEDICINE
COLUMBUS OH UNITED STATES
RUNNING TITLE: THE OHIO STATE MEDICAL JOURNAL. CONTINUES: THE OHIO STATE MEDICAL JOURNAL.
W1 OH37H 0892-2454
SR0059032 JC: OHI

HLI RESPIRATORY MANAGEMENT
RESPIR MANAGE
17N1,JAN/FEB 1987--
BRENTWOOD PUBLISHING
SANTA MONICA CA UNITED STATES
CONTINUES: RESPIRATORY THERAPY.
W1 RE248KE 0048-7392
SR0059055 JC: REM

TITLES NO LONGER INDEXED AS OF MARCH 1987

HLI INDICATOR
INDICATOR
1N1,MAR 1985--
MEDICAL-SURGICAL DIVISION/3M
ST PAUL MN UNITED STATES
CONTINUES: INFECTION CONTROL ROUNDS.
PUBLISHED WITH: JOURNAL OF HOSPITAL SUPPLY, PROCESSING, AND DISTRIBUTION.
INDEXING CEASED WITH V1N5,OCT 1985.
W1 IN349U
SR0053914 JC: GK5

IM MICROBIOLOGIA ESPANOLA
MICROBIOL ESP
1,1947-39N4,1986
SERVICIO DE PUBLICACIONES DE CSIC
MADRID SPAIN
W1 MI274 0026-2595
M34080000 JC: MXA

HLI URBAN HEALTH
URBAN HEALTH
1,1972-14N10-11,OCT-DEC 1985
URBAN PUBLICATIONS
ATLANTA GA UNITED STATES
W1 UR157K 0191-8257
U04380000 JC: X6C

NEW SERIALS AND TITLE CHANGES ANNOUNCEMENT, NON-INDEXED TITLES, MARCH 1987

The following substantive serial titles were received or ordered by the Serial Records Section. Titles indexed for MEDLINE, HEALTH and POPLINE are listed in the "INDEXED TITLES UPDATE" section. 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, please contact Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

ADVANCES IN COGNITIVE SCIENCE
1,1986--
ELLIS HORWOOD
CHICHESTER ENGLAND
IN PROCESS
SR0059061

ASIA-PACIFIC JOURNAL OF PUBLIC HEALTH
1N1,1987--
SCIENCE PRESS
HONG KONG HONG KONG
ON ORDER
SR0059203
SCIENCE PRESS,17TH FLOOR,JUBILEE COMMERCIAL BUILDING,42-46 GLOUCESTER ROAD,HONG KONG HONG KONG

CAP TODAY
1N1,JAN 1987--
COLLEGE OF AMERICAN PATHOLOGISTS
SKOKIE IL UNITED STATES
IN PROCESS
SR0058949
COLLEGE OF AMERICAN PATHOLOGISTS,5202 OLD ORCHARD ROAD,SKOKIE IL 60077-1034

CURRENT REVIEWS FOR POST ANESTHESIA CARE NURSES
9N1,1987--
CURRENT REVIEWS
MIAMI LAKES FL UNITED STATES
CONTINUES: CURRENT REVIEWS FOR RECOVERY ROOM NURSES.
IN PROCESS
SR0059040
CURRENT REVIEWS,7480 FAIRWAY DRIVE,SUITE 106,MIAMI LAKES FL 33014

ENVIRONMENTAL ASSESSMENT OVERVIEW
1987--
AMERICAN HOSPITAL ASSOCIATION
CHICAGO UNITED STATES
IN PROCESS
SR0059011
AMERICAN HOSPITAL ASSOCIATION,840 NORTH LAKE SHORE DR.,CHICAGO IL 60611

GANKA RINSHO JOHO
1986-87--
TOKYO IGAKU SHOIN
TOKYO JAPAN
IN PROCESS
SR0059336
TOKYO IGAKU SHOIN,S-24-3,HONGO,BUNKYOKU,TOKYO-TO

HEALTH AND ENVIRONMENT DIGEST
1N1,FEB 1987--
HEALTH AND ENVIRONMENT NETWORK
MINNEAPOLIS MN UNITED STATES
IN PROCESS
SR0059110 $75.00
HEALTH AND ENVIRONMENT DIGEST,5901 BROOKLYN BOULEVARD SUITE 109,MINNEAPOLIS MN 55429

INDEX CHEMICUS
104N1,1987--
INSTITUTE FOR SCIENTIFIC INFORMATION
PHILADELPHIA UNITED STATES
CONTINUES: CURRENT ABSTRACTS OF CHEMISTRY AND INDEX CHEMICUS. ISSUES ALSO CALLED
1203- .
IN PROCESS
SR0059039
INSTITUTE FOR SCIENTIFIC INFORMATION,3501 MARKET STREET,UNIVERSITY CITY SCIENCE CENTER,PHILADELPHIA PA 19104

INSIDE EPAS SUPERFUND REPORT
1N1,1987?--
INSIDE WASHINGTON PUBLISHERS
WASHINGTON UNITED STATES
CONSISTS OF TWO SECTIONS: SECTION I TRACKING SECTION; AND SECTION II NEWSWATCH.
IN PROCESS
SR0059575 $295.00
ENVIRONMENTAL PROTECTION AGENCY,SUPERFUND REPORT,P.O. BOX 7167,BEN FRANKLIN STATION,WASHINGTON DC 20044

INTENSIVE THERAPY AND CLINICAL MONITORING
8N1,JAN/FEB 1987--
MEDICAL TRIBUNE GROUP
LONDON ENGLAND
CONTINUES: BRITISH JOURNAL OF PARENTAL THERAPY.
IN PROCESS
SR0059016
MEDICAL TRIBUNE GROUP,TOWER HOUSE,SOUTHAMPTON STREET,LONDON WC2E 7LS,ENGLAND

IYO GAZO JOHO GAKKAI ZASSHI
IYO GAZO JOHO GAKKAI
KYOTOFU JAPAN
ON ORDER
SR0059481
KYOTO KOGEI SENI DAIGAKU KOGEIGAKUBU DENKI KOGAKKA,MATSUGASAKI GOSHOKAIDOCHO,SAKYOKU,KYOTOSHI,KYOTOFU 606,JAPAN

JOURNAL OF HAND THERAPY
1,1987--
HANLEY AND BELFUS
PHILADELPHIA UNITED STATES
ON ORDER
SR0059553
HANLEY AND BELFUS,210 SOUTH 13TH STREET,PHILADELPHIA PA 19107

JOURNAL OF VASCULAR TECHNOLOGY
11,JAN 1987--
SOCIETY OF NONINVASIVE VASCULAR TECHNOLOGY
WASHINGTON UNITED STATES
CONTINUES: BRUIT.
IN PROCESS
SR0059042
SNIVT NATIONAL OFFICE,1101 CONNECTICUT AVENUE N.W.,SUITE 700,WASHINGTON D.C. 20036

JOURNAL OF VOICE
1N1,1987--
RAVEN PRESS
NEW YORK UNITED STATES
ON ORDER
SR0059531

MEDICINE/HEALTH INFORMATION REVIEW
1N1,JAN/FEB 1987--
NOVA SCIENCE
COMMACK NY UNITED STATES
IN PROCESS
SR0059410
NOVA SCIENCE PUBLISHERS INC.,283 COMMACK ROAD SUITE 300,COMMACK NEW YORK 11725

PEDIATRIC ASTHMA ALLERGY AND IMMUNOLOGY
1,1987--
MARY ANN LIEBERT
NEW YORK UNITED STATES
ON ORDER
SR0059252 $80.00
MARY ANN LIEBERT INC.,1651 THIRD AVENUE,NEW YORK NY 10128

PERSPECTIVES IN CLINICAL PHARMACY
5N1,JAN 1987--
ELSEVIER SCIENCE PUBLISHING
NEW YORK UNITED STATES
CONTINUES: PERSPECTIVES IN CLINICAL PHARMACOLOGY.
IN PROCESS
SR0059357 $96.00

PRAKTISCHE KIEFERORTHOPADIE
1987?--
QUINTESSENZ VERLAG
BERLING GERMANY, WEST
ON ORDER
SR0059256
QUINTESSENZ VERLAG,IFENPFAD 2-4,D1000 BERLIN 42,GERMANY

RIGHTS AND WRONGS IN MEDICINE
1985/86--
KING EDWARDS HOSPITAL FUND FOR LONDON
LONDON ENGLAND
IN PROCESS
SR0059044
KINGS FUND PUBLISHING OFFICE,2 ST ANDREWS PLACE,LONDON NW1 4LB,ENGLAND

SOVIET PSYCHIATRY AND PSYCHOLOGY TODAY
1N1,1987--
SPHINX PRESS
MADISON CT UNITED STATES
ON ORDER
SR0059249 $345.00
SPHINX PRESS,59 BOSTON POST ROAD,P.O. BOX 154,MADISON CT 06443

APPENDIX A

NLM AUTOMATIC SDI SERVICE REQUEST FORM

Part I: (To be completed by all users)

USER ID ☐☐☐☐☐

Mailing address for printouts:

_____
Institution/Office/Name

_____
Address

_____
City, State, Zip

(No more than 50 characters per line; 1 line per item.)

Contact person for SDI service at your organization:

_____
Name

_____
Telephone number

Part II (To be completed by all users)

_____ **BEGIN** service on the _____ database.*

_____ **CHANGE** a previously submitted form for the _____ database.*

_____ MAILING ADDRESS
_____ PRINT AND/OR SORT FORMATS (specify in PART III)

_____ **CANCEL** service on the _____ database.*

*Submit one copy for each database on which you have stored or intend to store searches.

Part III To be completed if:

1. you are using the number range 701-801** on any database
2. you wish to substitute a print and/or sort format different from those shown on the reverse

DATABASE IDENTIFIER	NUMERICAL RANGE	ELEMENTS TO BE PRINTED	SORT FORMAT
Enter one of the letters shown on the reverse: A, C, B, H, P, S or T ☐	001 - 200		
	201 - 400		
	401 - 600		
	601 - 700		
	701 - 800**		

**USERS NAMING SEARCHES IN THIS RANGE MUST SUPPLY PRINT ELEMENTS AND A SORT FORMAT. FOR EXAMPLE:

☐ S	701 - 800	AU, TI, SO, LA	JNL

FOR COMPLETE STORESEARCH AND AUTOMATIC SDI INSTRUCTIONS SEE THE ONLINE SERVICES REFERENCE MANUAL 5.2
RETURN ONE COMPLETED FORM FOR EACH DATABASE TO:

MEDLARS MANAGEMENT SECTION
NATIONAL LIBRARY OF MEDICINE
8600 ROCKVILLE PIKE
BETHESDA, MARYLAND 20894

Rev. 1987

DATABASE NAME & IDENTIFYING LETTER	NUMBER RANGE	PRINT FORMAT OR ELEMENTS	SORT FORMAT	SORT ELEMENTS & DIRECTION
AVLINE **A**	A001-200	STANDARD	AUTI	PN A, CN A, TI A
	A201-400	LOAN		
	A401-600	FULL		
	A601-700	DETAILED		
	A701-800*	USER MUST SPECIFY		
CANCERLIT **C**	C001-200	STANDARD	JNL	TA A, YR A, TI A
	C201-400	FULL		
	C401-600	DETAILED		
	C601-700	AU, TI, AB, PT, SO		
	C701-800*	USER MUST SPECIFY		
CATLINE **B**	B001-200	STANDARD	AUTI	PN A, CN A, TI A
	B201-400	ACQUISITIONS		
	B401-600	FULL		
	B601-700	DETAILED		
	B701-800*	USER MUST SPECIFY		
HEALTH **H**	H001-200	STANDARD	JNL	TA A, DP D, IM A, VI D, IP D
	H201-400	FULL		
	H401-600	AU, TI, TT, LA, MH, AB, SO		
	H601-700	AR		
	H701-800*	USER MUST SPECIFY		
POPLINE **P**	P001-200	STANDARD	AUTI	CN A, AU A, TI A
	P201-400	AR		
	P401-600	SD INCLUDE GN, LA AD, KW		
	P601-700	SD INCLUDE GN, AD		
	P701-800*	USER MUST SPECIFY		
SDILINE (MEDLINE) **S**	S001-200	STANDARD	JNL	TA A, DP D, VI D, IP D PG A
	S201-400	FULL INCLUDE AD		
	S401-600	AU, TI, TT, LA, MH, AB, AD, SO		
	S601-700	AU, TI, AB, SO		
	S701-800*	USER MUST SPECIFY		
TOXLINE **T**	T001-200	STANDARD	AUTI	AU A, TI A
	T201-400	FULL		
	T401-600	DETAILED		
	T601-700	SI, AU, CN, TI, AD, SA, SO		
	T701-800*	USER MUST SPECIFY		

*There are no default print and sort elements for searches named in the 701-800 range. Users must complete *Part III* of this form if this number range is used.

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MAY 1987
No. 217

The NLM Technical Bulletin

GRATEFUL MED Users See page 11

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Serials Update 19

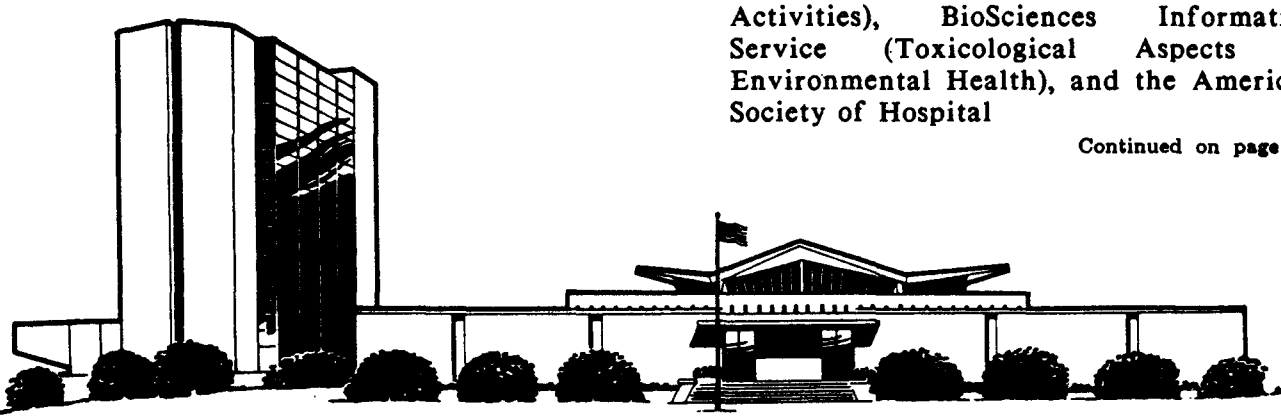
Preview: TOXLINE Regeneration Plans

Jeanne C. Goshorn
Chief, Biological Information Services Section, SIS

NLM has in the past regenerated the TOXLINE file in order to change the segmentation by publication year, perform file maintenance activities, and provide file enhancements such as improved search capabilities or changes to record formats. A regeneration of TOXLINE has been planned for this Summer that will involve a major departure from the current front file/back files structure.

In order to provide NLM users with a wide scope of toxicology-related information at a significantly reduced cost, for the first time the subfiles will be segmented in TOXLINE so that those files which carry no royalty charges can be accessed separately from those with associated royalty costs. Increases in royalty charges set by the providers of three TOXLINE subfiles -- the Chemical Abstracts Service (Chemical-Biological Activities), BioSciences Information Service (Toxicological Aspects of Environmental Health), and the American Society of Hospital

Continued on page 13.



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MEDLARS DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL COMPUTER				
AVLINE	16,013	THROUGH 1987	04 JUN 87	
BIOETHICS	22,802	JAN 73-1987	06 JUN 87	8706(EM)
CANCERLIT	590,122	JAN 63-JUNE 87	30 MAY 87	8706(EM)
CANCERPROJ	10,183	THROUGH 1986	05 JUL 86	8607(EM)
CATLINE	616,522	THROUGH 1987	04 JUN 87	
CHEMLINE	740,433		05 MAY 87	8704(EM)
CLINPROT	6,015		20 MAY 87	8705(EM)
DIRLINE	15,557		07 FEB 87	
HEALTH	381,934	JAN 75-JUL 87	06 JUN 87	8707(EM)
HISTLINE	77,300		06 JUN 87	8706(EM)
MEDLINE	653,711	JAN 85-JUL 87	30 MAY 87	8707(EM)
MED83	584,278	JAN 83-DEC 84	21 MAR 87	
MED80	804,720	JAN 80-DEC 82	21 MAR 87	
MED77	774,964	JAN 77-DEC 79	02 MAY 87	
MED75	642,573	JAN 75-DEC 76	16 MAY 87	
MED71	882,890	JAN 71-DEC 74	07 MAR 87	
MED66	954,361	JAN 66-DEC 70	04 APR 87	
MESH VOC	61,032	1987	06 JUN 87	
NAME AUTH	285,441		30 MAY 87	
PDQ			30 MAY 87	
POPLINE	151,736	1970-JUN 87	06 JUN 87	8706(EM)
RTECS	88,700	THROUGH MAY 87	04 JUN 87	
SDILINE	27,331	JUL 87	30 MAY 87	8707(EM)
SERLINE	68,927	1987	14 MAY 87	
TOXLINE	979,640		19 MAY 87	8705(EM)
CBAC	525,998	1981-VOL 106(8,9)		
TOXBIB	196,399	1981-JUN 1987		
IPA (ASHP)	45,709	1981-VOL 24(9,10)		
BIOSIS	67,616	1985-APR 1987		
HEEP	49,788	1981-85 V.14(8)		
PESTAB	1,536	1981		
EMIC	12,901	1981-MAR 1986		
ETIC	15,176	1981-NOV 1986		
TD3	27,802	1981-GRA&I 87(3)		
HMTC	2,746	1981-APR 1987		
ILO	5,668	1981-MAY 87		
RPROJ/CRISP	16,086	FISCAL YEARS 1983, 1984, 1985		
ANEUPLOIDY	3,593	1969-JUN 1986		
EPIDEMIOLOGY	8,722	1940-JAN 1987		
TOXBACK76	555,808		27 AUG 84	
CBAC	298,383	1976-1980		
TOXBIB	106,643	1976-1980		
IPA(ASHP)	33,321	1976-1980		
HEEP	63,796	1976-1980		
PESTAB	14,757	1976-1980		
EMIC	17,267	1976-1980		
ETIC	11,970	1976-1980		
TD3	9,671	1976-1980		
TOXBACK65	598,424		27 AUG 84	
CBAC	287,992	1965-1975		
TOXBIB	155,387	1965-1975		
IPA(ASHP)	33,876	1969-1975		
HEEP	54,075	1970-1975		
HAPAB/PESTAB	18,416	1968-1975		
EMIC	19,554	1950-1975		
ETIC	13,694	1950-1975		
TD3	839	PRE-1965-1975		
HAYES	10,039	1940-1968		
TMIC	4,552	1940-1975		
TOXNET COMPUTER				
CCRIS	1,165		28 APR 87	
HSDB	4,150		01 JUN 87	

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Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 that is considered most relevant to the item being discussed, e.g., (Manual 4.7.2). Users should keep in mind that the item may pertain to other sections of the Manual as well.

INDEPENDENCE DAY HOLIDAY SCHEDULE

The NLM computer will be up on a non-guaranteed basis on Friday, July 3, 1987, the day of the federal government's observance of Independence Day. Non-prime rates will be in effect all day and the MEDLARS Management Service Desk will not be staffed. DOCLINE will be up on a non-guaranteed basis on Friday, July 3, but the DOCLINE Service Desk will not be staffed. On Independence Day, Saturday, July 4, 1987, it is expected that the NLM computer will be up all day on the regular Saturday non-guaranteed schedule and at non-prime rates. However, DOCLINE will not be available on this day. The TOXNET computer system status is always guaranteed with non-prime rates in effect on all holidays. Please see the October 1986 *NLM Technical Bulletin*, Appendix C, for the complete 1987 holiday schedule.

PDQ BIOLOGIC RESPONSE MODIFIER MENU

Information on Biologic Response Modifiers (BRM's) which are being investigated in clinical protocols as anti-neoplastic agents can now be retrieved from a new menu in PDQ. This new sub-menu is an additional option from the Treatment Modality menu reached via the PDQ Protocol Retrieval menu. This new Biological Response Modifiers (BRM) sub-menu lists 9 therapies:

```
PROTOCOL SELECTION BY TREATMENT MODALITY

Modalities are:

   1 Biological response modifier therapy
   2 Bone marrow transplantation
   3 Chemotherapy
   4 Endocrine/hormone therapy
   5 Hyperthermia
   6 Radiation therapy
   7 Supportive therapy
   8 Surgery

*Enter desired number and press CR.

>1
```

```
Biological Response Modifiers (BRM) -
  Submenu

Therapies are:

   1 Alpha interferon therapy
   2 Beta interferon therapy
   3 Gamma interferon therapy
   4 Tumor necrosis factor therapy
   5 LAK/Interleukin-2 therapy
   6 Monoclonal antibody therapy
   7 Monoclonal antibody conjugate therapy
   8 Tumor cell preparation immunotherapy
   9 Non-specific immunostimulant therapy

*Enter desired number and press CR.

>1,2,3
```

Searchers may select more than one BRM by separating them with a comma which is equivalent in PDQ to a Boolean OR operation. Refer to the PDQ online news and the help screen for further information.

CUMULATED INDEX MEDICUS ERRORS

Book 2 of the 1986 edition of *Cumulated Index Medicus* contains the following error: a duplicate of page 1062 was inadvertently substituted by the printer for page 1162 in the Bibliography of Medical Reviews Subject Section. The missing page 1162 contains references to review articles on the subjects

"Cortisone" through "Crohn Disease." Because these same references are repeated elsewhere in the regular *CIM* Subject Section, users may be directed to Book 8 (Subject Index Blo-Cu) for the missing information. However, if you wish to obtain a copy of page 1162, write NLM's Office of Inquiries, Attn: Page 1162. Please enclose a self-addressed label with your request.

The printer also reversed the placement of odd-numbered and even-numbered pages in Books 10 and 12 (Subject Index Fr-Ins and Subject Index Mol-Pi). The errors would be inconsequential except for the running heads. By reversing the placement of all odd-numbered and even-numbered pages, running heads become practically meaningless. The running heads fall in the inside of the pages rather than to the outside corners where they would show the user the alphabetical subject range of the citations between the beginning of a left-hand page and the end of a right-hand page. These volumes will not be reprinted due to the prohibitive expense. Special precautions will be taken in the future to prevent a recurrence. To use these books, ignore the running heads and scan the pages for the bold-face subject headings throughout as guides to the desired references.

Correction: The article on p.15 of the April 1987 issue of the *NLM Technical Bulletin* entitled "MeSH File in Alphabetical Order" contained an error. The second sentence in paragraph one should be corrected to read, Online and offline printouts are sorted in ascending order (A through Z followed by 0 through 9) by record type rather than descending order (Z through A followed by 9 through 0) by record type as before.

Please access **FILE INFORM** *and type* **NEWS** *to see the most recent news items online!*

New Fields and Data Added to Regenerated CHEMLINE

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

The regenerated CHEMLINE file (Entry Month 8704) contains several major enhancements that greatly increase the variety of data available, as well as provide searching tools which will allow more comprehensive searching for users who are not expert in the chemical search area. The changes are described below.

RELATED REGISTRY NUMBER (RR) FIELD

Many times it is useful to find records for a parent substance as well as its salts, in order to identify further relevant citations in files such as TOXLINE. For instance, the record for Librium (RN 438-41-5) describes the hydrochloride salt of chlordiazepoxide (RN 58-25-3). However, the RN of Librium retrieves many fewer citations in TOXLINE than using the RN of chlordiazepoxide, the parent substance.

In order to alert users to the presence of selected (NOT ALL) related records of salts in CHEMLINE, a machine-assigned Related Registry Number (RR) is now carried in many records. The RR data will be generated on an annual basis. The Librium record is found in Figure 1.

Note that there are 3 RNs in the RR field, two of which are followed by a qualifier in parentheses. The qualifier shows the type of salt described in the "related" record without regard to its multiplicative prefix, e.g., "mono", "di", or "tri." In this case, the first two qualifiers are HCL (hydrochloride), HBR (hydrobromide), and, in the case of 58-25-3 (the Registry Number (RN) of the parent substance) there is no qualifier. The user may type the individual RRs as RNs to retrieve records selectively, or may type the RN for Librium using the RR search abbreviation to retrieve the records for the three salts in which Librium's Registry Number appears as an RR, as shown in Figure 2.

Note that, including the record we started with, there are a total of 4 related substances in this case, and that the CHEMLINE record for each shows the RNs for the other three in the RR field. The third record printed, RN 58-25-3, is for chlordiazepoxide, the parent record of librium. This record contains data which will not only lead to higher TOXLINE retrieval, but also points to additional files such as HSDB in the Locator (LO) field. The RR field for Chlordiazepoxide refers the users to RN 14844-23-6 the hydrochloride salt, RN 438-41-5, the monohydrochloride salt (Librium), and RN 56617-98-2 the monohydrobromide salt.

Related Registry Numbers were generated for 34 salt types that were thought to be most useful in biomedical searching. An attempt was made to use salt types that tend to have similar biological activities, such as sodium salts and hydrochlorides. Figure 3 contains a table ordered alphabetically by the abbreviation used in the RR field for salt types for which Related Registry Numbers were generated, to the degree that data allowed.

The RR field is meant to give the user a quick, easy way to begin finding related CHEMLINE records useful in further searching. It is up to the user to apply judgment and select salts that are appropriate to the search request, and also to broaden the search in CHEMLINE to include salts which may not be referred to in the RR field. A more detailed article will be forthcoming concerning this new feature of CHEMLINE.

NOTE (NO) FIELD

A new Note field has been added for some textual data concerning either the usage of a certain substance or hints about searching. The field is Text Word searchable using the

qualifier (NO), rather than (TW). Two examples are given below:

NO - The term AZT will give ambiguous results in TOXLINE. Use RN or other names.

NO - ANSI: Secbumeton is intended for use as a herbicidal chemical for control of weeds in alfalfa and sugarcane.

In the first example, there is a warning that the term AZT is ambiguous when used in TOXLINE (because there exists a different substance with the same name) and should be used in this context only with care. The second instance gives the usage of the pesticide Secbumeton. This type of data is present for about 260 pesticides for which the official ANSI (American National Standards Institute) pesticide names have been added.

SYNONYM (SY) FIELD

Data from a new source of chemical nomenclature have been added to CHEMLINE in order to augment name coverage. Names from the publication *CTFA Cosmetic Ingredient Dictionary* were merged with names from our other sources by CAS Registry Number for records existing in CHEMLINE. Names from this source have been appended with the abbreviation "CTFA", and names which are monograph headings in the printed version of this book are designated "CTFA*". This source has provided important, unique coverage of names in the cosmetic field.

Names from all other sources have been updated with the latest data from the *CA Index Guide*, the RTECS, HSDB, and MESH files, and the publication *USAN and the USP Dictionary of Drug Names*. The coverage of identifers of regulatory interest, particularly pesticides, has been increased with the addition of over 28,000 identifiers from USDA and EPA to some 15,000 records. These include official ANSI pesticide names, AI3 numbers from USDA, and pesticide names and identifiers from the EPA publication *Catalog of Pesticide Names and their Synonyms*, including the Caswell Number, and the EPA Pesticide Chemical Code (Shaughnessy Number). These are appended with the name source "NLM."

Drug names and pesticide names are now qualified with an abbreviation of the names of their "official" source compendia when these are available. The most common abbreviations are:

Drugs

USAN	United States Adopted Name
INN	International Nonproprietary Name
BAN	British Approved Name
DCF	Denomination Commune Francaise (French approved nonproprietary name)

Pesticides

ANSI	American National Standards Institute
ISO	International Organization for Standardization
BSI	British Standards Institution

The abbreviations are following the name enclosed in square brackets, and are useful in choosing names for further searching in a file like TOXLINE, since generic names are usually used in such a file in preference to trade names. Figure 4 contains examples of the synonym fields for two records with names annotated in this manner.

CLASSIFICATION CODE (CC) FIELD

In addition to pharmacologic and/or therapeutic category data from *USAN and the USP Dictionary of Drug Names*, Classification Code data from the RTECS files are now carried in CHEMLINE records, with the source RTECS appended. All data are in alphabetical order within the field. The CC data for Ceftizoxime Sodium follows as an example:

CC - Antibacterial [USPDDN]
CC - Drug [RTECS]
CC - Reproductive data [RTECS]

All data are directly searchable up to the first square bracket, and by individual word in the CC field as well. A listing of RTECS Classification Codes may be found in the RTECS chapter of the *Online Services Reference Manual, 1986.* Users are cautioned that RTECS CCs such as "Reproductive data" and "Tumor data" denote the presence of either positive or negative data in the RTECS record, and do not necessarily indicate that a compound is associated with reproductive or carcinogenic toxicity. In that respect, they can be viewed as an example of a data "locator", rather than a category.

RING DATA (NR,RS,RE,CL) FIELD

Ring data were added to over 4,500 records in this regeneration. This category is now current through the third update to CHEMLINE in 1984. The effort of adding ring data is now being phased out, and it is not planned to add more such data after the next regeneration. Based on a recent survey of users, it was decided that it would be best to concentrate available resources on augmenting capabilities useful in finding individual chemical records. The ring data now in the file, however, have utility in searching and will be retained.

LOCATOR (LO) FIELD

All records were updated with the latest Locator value. This includes a complete update to the TSCAINV locator, which denotes the presence of a substance on the newest public version of the EPA TSCA Inventory. These data were not available for the last regeneration of CHEMLINE.

SUMMARY

This regeneration of CHEMLINE provides users a variety of new data to identify substances, categorize them, and increase the chance of finding pertinent data in other NLM files. Over 140,000 records were enhanced with data beyond the basic data which are made available to NLM through its agreement with CAS, as compared to approximately 58,000 records in 1986. This process will continue in 1987 and 1988. Many of these improvements have been based upon the results of a survey of CHEMLINE users made in 1985. We would welcome user comments on these new types of data, as well as suggestions for further improvements.

```
RN  - 438-41-5
RR  - 14844-23-6 (HCL)
RR  - 56617-98-2 (HBR)
RR  - 58-25-3
MF  - C16-H14-Cl-N3-O.Cl-H
N1  - 3H-1,4-Benzodiazepin-2-amine, 7-chloro-N-methyl-5-phenyl-,
      4-oxide, monohydrochloride (9CI) [MF1]
SY  - A-Poxide [RTECS:USPDDN]
SY  - Chlordiazepoxide hydrochloride [CAS:RTECS:USPDDN*]
SY  - Chlordiazepoxide Hydrochloride [USAN] [USPDDN*]
SY  - Chlordiazepoxide monohydrochloride [RTECS]
SY  - Clopoxide Chloride [USPDDN]
SY  - Contol [CAS]
SY  - Librium [CAS:RTECS:USPDDN]
SY  - Librium hydrochloride [RTECS]
SY  - Methaminodiazepoxide hydrochloride [CAS:RTECS]
SY  - Murcil [RTECS:USPDDN]
SY  - NSC-115748 [USPDDN]
SY  - Ro 5-0690 [RTECS:USPDDN]
SY  - SK-Lygen [RTECS:USPDDN]
SY  - 3H-1,4-Benzodiazepine, 7-chloro-2-(methylamino)-5-phenyl-,
      4-oxide, monohydrochloride (8CI) [CAS]
SY  - [component of] Librax [USPDDN]
CC  - Drug [RTECS]
CC  - Mutation data [RTECS]
CC  - Reproductive data [RTECS]
CC  - Sedative [USPDDN]
LO  - TOXLINE
LO  - TOXBACK76
LO  - TOXBACK65
LO  - RTECS
```

Figure 1

```
SS 2 /C?
USER:
(rr) 438-41-5

PROG:
SS (2) PSTG (3)

SS 3 /C?
USER:
print full


PROG:

1
RN  - 56617-98-2
RR  - 14844-23-6 (HCL)
RR  - 438-41-5 (HCL)
RR  - 58-25-3
N1  - 3H-1,4-Benzodiazepin-2-amine, 7-chloro-N-methyl-5-phenyl-,
      4-oxide, monohydrobromide (9CI) [MF1]
LO  - TOXBACK65

2
RN  - 14844-23-6
RR  - 438-41-5 (HCL)
RR  - 56617-98-2 (HBR)
RR  - 58-25-3
N1  - 3H-1,4-Benzodiazepin-2-amine, 7-chloro-N-methyl-5-phenyl-,
      4-oxide, hydrochloride (9CI) [MF1]
SY  - 3H-1,4-Benzodiazepine, 7-chloro-2-(methylamino)-5-phenyl-,
      4-oxide, hydrochloride (8CI)  [CAS]
LO  - TOXBACK65

3
RN  - 58-25-3
RR  - 14844-23-6 (HCL)
RR  - 438-41-5 (HCL)
RR  - 56617-98-2 (HBR)
N1  - 3H-1,4-Benzodiazepin-2-amine, 7-chloro-N-methyl-5-phenyl-,
      4-oxide (9CI)
                        .
                        .
                        .
SY  - Chlordiazepoxide  [CAS:HSDB*:MESH*:RTECS:USPDDN*]
SY  - Chlordiazepoxide  [USAN:INN]  [USPDDN*]
                        .
                        .
                        .
LO  - TOXLINE
LO  - TOXBACK76
LO  - TOXBACK65
LO  - RTECS
LO  - MEDLINE
LO  - MED83
LO  - MED80
LO  - MED77
LO  - CANCERLIT
LO  - HSDB
```

Figure 2

RR Abbreviation	Salt Type	RR Abbreviation	Salt Type
ACE	Acetate	LAC	Lactate
BA	Barium	MAL	Maleate
BR	Bromide	MES	Mesylate
CA	Calcium	MESO4	Methyl sulfate
CIT	Citrate	MG	Magnesium
CL	Chloride	NA	Sodium
CO3	Carbonate	NH3	Ammonium
DOLA	Diolamine	NO3	Nitrate
FORM	Formate	OH	Hydroxide
FUM	Fumarate	OLA	Olamine
H	Hydrogen	OXA	Oxalate
HBR	Hydrobromide	PCL	Perchlorate
HCL	Hydrochloride	PO4	Phosphate
HI	Hydriodide	SO4	Sulfate
H2O	Hydrate	SUC	Succinate
I	Iodide	TAR	Tartrate
K	Potassium	TOS	Tosylate

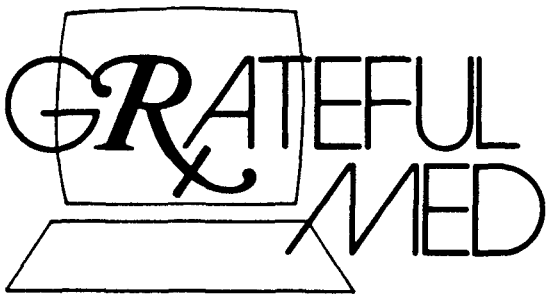
Figure 3

```
1
SY  - Aerolin  [RTECS]
SY  - AH 3365  [CAS:RTECS]
SY  - Albuterol  [CAS:MESH*:RTECS:USPDDN*]                    <--
SY  - Albuterol [USAN]  [USPDDN*]                             <--  USAN
SY  - m-Xylene-alpha,alpha'-diol,
      alpha(1)-((tert-butylamino)methyl)-4-hydroxy- (8CI)  [CAS]
SY  - Proventil  [MESH:RTECS]
SY  - Proventil Inhaler  [USPDDN]
SY  - Salbutamol  [CAS:MESH:RTECS:USPDDN]                     <--
SY  - Salbutamol [INN:BAN:DCF]  [USPDDN]                      <--  INN, BAN, DCF
SY  - Sultanol  [RTECS]
SY  - Ventolin  [MESH:RTECS]
SY  - Ventolin Inhaler  [USPDDN]



2
SY  - Benzoic acid, 3,6-dichloro-2-methoxy-, methyl ester (9CI)  [NLM]
SY  - Caswell No. 408AA  [NLM]
SY  - Dicamba-methyl [ISO]  [NLM]                             <--  ISO
SY  - Disugran  [CAS:MESH]
SY  - Disugran [ANSI]  [NLM]                                  <--  ANSI
SY  - EPA Pesticide Chemical Code 408200  [NLM]
SY  - Methyl 3,6-dichloro-o-anisate  [NLM]
SY  - o-Anisic acid, 3,6-dichloro-, methyl ester (8CI)  [CAS]
SY  - o-Anisic acid, 3,6-dichloro-, methyl ester (7CI,8CI)  [NLM]
SY  - Racuza  [CAS:MESH]
SY  - 60CS16  [CAS]
```

Figure 4



VERSION 2.0

[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated.]

DOWNLOADING WITHOUT MeSH VOCABULARY

It is possible to download citations from MEDLINE and CATLINE with or without the MeSH Headings (MH). After you have entered your search topics on the INPUT screen, GRATEFUL MED will ask, "OK TO GO ON TO SEARCH (Y/N/*)?"

- If you enter Y, the downloaded citations will include MeSH headings.

- If you enter an asterisk (*), the downloaded search results will not include MeSH headings. By excluding MeSH headings you can reduce the cost of your search; however, the relevancy program which suggests MeSH terms cannot be utilized.

TRANSFERRING REFORMATTED SEARCH RESULTS TO PAPER OR DISK

In addition to reviewing the results of your search on your screen, you can elect to print the reformatted citations at your printer or transfer them to another file, even on another disk.

Following your search, GRATEFUL MED asks, "DO YOU HAVE A PRINTER AND WANT TO PRINT (Y/N/F)?"

- If you enter Y, your search results will be displayed on your screen for you to review and the citations which you decide are relevant will print on your printer.

- If you enter N, each citation retrieved will only be displayed on your screen for you to review.

- If you enter F, the search results that you decide are relevant will be moved to a file which you designate when prompted with "FILE NAME ?" Designate a drive and a "subject-oriented" name (up to 8 characters), including a file name extension if you wish. For example:

B:POLIO.GM
C:TONSIL.TXT

If you do not designate a drive, the file will be written to the drive running GRATEFUL MED. If you do not provide a file name extension, none will be added.

Next, you will be prompted with, "NEW FILE (Y/N)?"

- If you answer Y, a new file will be created.

- If you answer N, the citations will be appended to the end of the existing file with that name.

NOTE: While reviewing citations, hitting the ESCape key will allow you to stop the review process and begin another GRATEFUL MED option.

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p.3.

The TOXNET Gateway

Bruno M. Vasta
Philip Wexler
Dalton Tidwell
Toxicology Information Program, SIS

The Division of Specialized Information Services is pleased to announce the availability, as of May 18, 1987, of the TOXNET "Gateway." This user-transparent switching feature provides access between TOXNET's toxicologically-oriented files and the ELHILL databases. Starting in any TOXNET file users may now switch to ELHILL databases simply by using the FILE command. For example, a user searching HSDB would use the command FILE MEDLINE to be automatically logged onto ELHILL's MEDLINE.

The TOXNET software, working through a PC-compatible microcomputer, dials a Washington, D.C. area TYMNET node, establishes a link to ELHILL, enters the appropriate User ID code and password, and logs into the requested database in ELHILL. Although TYMNET handles the Gateway, users are able to access TOXNET using any of their preferred modes (TELENET, TYMNET, or Direct Dial). Once the Gateway is established, users can search ELHILL readily, switching back and forth between databases. After the ELHILL session is completed, the standard STOP Y command will return users to the exact line last displayed in the TOXNET session. Users must return to TOXNET before logging off the entire NLM system; this is accomplished with another STOP Y.

There are 8 ports dedicated to the TOXNET Gateway itself plus the usual 8 TELENET and 8 TYMNET ports into TOXNET. Each time the Gateway is used, a virtual circuit is created whereby two ports are in use: one for accessing TOXNET, and one for the connection to ELHILL through the TYMNET link. TOXNET software keeps track of time spent both in ELHILL and TOXNET. Estimated online time and charges, as always, are displayed in conjunction with each logoff.

It should be pointed out that the Gateway is presently unidirectional. Users must start in TOXNET, move into ELHILL and return to TOXNET. ELHILL does not offer access to TOXNET at this time. Users beginning their searches in ELHILL databases must still logoff ELHILL and onto TOXNET before searching a TOXNET file.

With the transfer between TOXNET and ELHILL now simplified, users must pay special attention to which files they are searching and remember to use valid commands and mnemonics. For example, the PRT FULL command is not recognized in TOXNET while the PRT HITS is not valid in ELHILL. A number of informative ERROR messages will shortly be in place in the TOXNET system to alert users to the nature of mistakes they might make. A separate article discussing realistic search applications for the Gateway is forthcoming in a future *NLM Technical Bulletin* issue.

The TOXNET Gateway is the first step towards facilitating cross-file searching and printing between NLM's ELHILL and TOXNET systems. Moving search results back and forth, saving, merging and sorting data, in addition to implementing post-processing capabilities are features now being planned for TOXNET.

TOXLINE

Continued from page 1.

Pharmacists (International Pharmaceutical Abstracts) -- have necessitated continually increasing the cost of accessing TOXLINE.

The subfiles for which royalty charges must be paid will be included in two new files named TOXLIT (Toxicology Literature from Special Sources) and TOXLIT65. TOXLIT is expected to contain publication years 1981 forward and TOXLIT65 will contain 1965-1980 publication years. The dates of coverage are still tentative.

The expected target date for the regeneration is August 1. At that time, the current TOXLINE and its backfiles will be segmented into the three files outlined in Figure 1.

The new TOXLINE file is expected to include all years of coverage for its respective subfiles and will include MeSH headings in their MEDLINE format as a major new feature of the Toxicity Bibliography (TOXBIB) subfile. NLM is regenerating all TOXBIB citations from MEDLINE to get the current 1987 MeSH. NLM users familiar with MeSH thus will be able to employ MeSH searching in formulating TOXLINE searches, perhaps using such search retrieval to identify Text Words to be used in retrieving from other portions of the TOXLINE or TOXLIT files that do not carry MeSH headings.

NLM is planning to add new subfiles to the non-royalty TOXLINE in order to increase the scope and coverage of that file. NIOSHTIC, a bibliographic file produced by the National Institute for Occupational Safety and Health (NIOSH), is being processed now and is expected to be included as a TOXLINE subfile during the regeneration. NIOSHTIC covers current journals in fields related to occupational health and safety, as well as NIOSH publications and references identified in the creation of NIOSH documents.

The Library believes that the proposed segmentation will better serve the needs of the NLM user community. The restructured files will of course necessitate a new pricing structure, which is currently being developed. With the new TOXLINE and TOXLIT files, NLM users will still have access to the full range of toxicology-related bibliographic citations, but will now have options for significantly less expensive access to much of the information. Performing search strategy formulation and refinement in the lower priced file coupled with use of ELHILL software features such as SAVESEARCH also will allow more cost-effective access to the royalty-based files.

Watch for future *NLM Technical Bulletin* articles that will provide more details on file content and cost restructuring, new TOXLINE subfiles, and search strategy suggestions as the regeneration date moves closer.

Figure 1

FILE	SUBFILES
TOXLINE	Aneuploidy
	Environmental Mutagen Information Center File
	Environmental Teratology Information Center File
	Epidemiology Information System
	Hazardous Materials Technical Center
	International Labour Office
	NIOSHTIC
	Pesticides Abstracts
	Toxicity Bibliography
	Toxicology Document and Data Depository
	Toxicology Research Projects
TOXLIT	Chemical-Biological Activities
	International Pharmaceutical Abstracts
	Toxicological Aspects of Environmental Health
TOXLIT65	Chemical-Biological Activities
	International Pharmaceutical Abstracts
	Toxicological Aspects of Environmental Health

Monthly Search Hint:

EXPLODE versus ALL

Janice Contini
Pacific Southwest Regional
Medical Library Service

[Editor's Note: Adapted from an article that originally appeared in the Pacific Southwest Regional Medical Library Service Newsletter, 1986 Nov-Dec; (162).]

MEDLINE is a database whose subject searching structure is built around the *Medical Subject Headings* (MeSH). To capitalize on this structure, that is, to get the best possible information from MEDLINE, the searcher must understand the advantages of the EXPLODE capability. The searcher also must realize the implications of using ALL, another search instruction.

EXPLODE

The MEDLARS system has an EXPLODE capability for MeSH headings. When the searcher uses this capability, the system retrieves postings for the MeSH heading entered following the EXP and retrieves postings for each MeSH heading indented under that term in the tree structure hierarchy. Thus, when the searcher enters EXP SPORTS, the postings for SPORTS and for each of its specific indentions are retrieved (Figure 1). The computer automatically processes the terms as if the searcher had entered each one connected with the Boolean operator OR.

ALL

Some searchers substitute the word ALL for the EXPLODE capability. However, ALL is no substitute. The computer does not understand the concept ALL in the same wa, humans do. ALL bypasses the MeSH structure of the system, while the EXPLODE capability uses the system's structure. When a searcher enters ALL SPORTS, the computer retrieves sports as a MeSH heading and as a Text Word (Figure 2). The computer simply goes to the database index, matches letter by letter, and retrieves all matches no matter what the field. Some searchers truncate when using ALL. In that case, ALL SPORT: is entered. The computer goes to the database index and retrieves all entries beginning with "sport" no matter what the field. Authors and journal title abbreviations would be retrieved as well as Text Words and MeSH headings (Figure 3). However, none of the specific sports indented under SPORTS in the tree structures would be retrieved since those terms do not begin with the letters s p o r t. (Compare Figure 3 to Figure 1.)

WHICH METHOD IS BEST?

USING EXPLODE

MEDLINE searchers should use the EXPLODE capability to take advantage of the strength of the MeSH controlled vocabulary. The indexing of MEDLINE is excellent. Searching with MeSH headings in MEDLINE allows for comprehensive, precise, and flexible searching.

MeSH headings can be weighted (using the asterisk) to indicate a central topic in the article. Specific aspects as well as the general concept are appropriate and necessary for comprehensive retrieval.

Suppose information concerning the effect of participation in sports on coronary disease is desired. One facet of the question is sports and the other facet is coronary disease. The MeSH heading for sports is SPORTS. Indented under SPORTS are nineteen MeSH headings for particular kinds of sports (Figure 1). All the headings would also be appropriate. For the second facet there is a MeSH heading CORONARY DISEASE. There are ten MeSH headings indented under CORONARY DISEASE representing specific

types of coronary disease (Figure 4). All of those headings are also appropriate. The MeSH headings CORONARY CIRCULATION and CORONARY VESSELS would be appropriate as well.

The search strategy in the current MEDLINE database using MeSH headings and EXPloding those headings which have indented terms under them is shown in Figure 5.

USING ALL

What would be different, if anything, about the results of the search if ALL were substituted for EXP for the two terms which can be EXPLODEd?

Figure 3 shows that some MeSH headings will be retrieved using ALL SPORT:, while the nineteen MeSH headings for types of sports would not be retrieved. ALL CORONARY DISEASE would retrieve the MeSH heading CORONARY DISEASE and not any postings to MeSH headings for specific types of coronary disease (Figure 6). Note in Figure 6 what is retrieved, and compare that to Figure 4.

The search strategy in the current MEDLINE database substituting ALL for EXP is shown in Figure 7. Note the smaller number of postings for ALL SPORT: and for ALL CORONARY DISEASE.

The searcher who EXPLODEd the MeSH headings retrieved a total of sixty-four records, while the searcher who used ALL retrieved only forty records, many of which were not related to the concept for which the searcher was looking.

For purposes of illustration, the scope of the question in this article is narrow. In reality, the idea of exercise would be appropriate to include with sports. Rather than limiting the effect of exercise or sports to coronary disease, one might be interested in broadening the idea to include the entire cardiovascular system.

The first facet would include EXPLODing both SPORTS and the MeSH heading for exercise, EXERTION. The second facet would include the pre-explosions for CARDIOVASCULAR SYSTEM and CARDIOVASCULAR SYSTEM DISEASES as well as the EXPLODE of CARDIOVASCULAR SYSTEM PHYSIOLOGY (NON MESH). (For a comprehensive explanation of pre-explosions, see the *Online Services Reference Manual, 1986*, section 4.7.2.)

The above strategy allows for comprehensive retrieval on the subject in MEDLINE by using the strength of the database.

```
SPORTS                                  I3.450.642.845
  BASEBALL *                            I3.450.642.845.110
  BASKETBALL *                          I3.450.642.845.117
  BICYCLING *                           I3.450.642.845.140
  BOXING                                I3.450.642.845.210
  FOOTBALL                              I3.450.642.845.300
  GOLF *                                I3.450.642.845.400
  GYMNASTICS                            I3.450.642.845.417      I2.233.543.
  HOCKEY *                              I3.450.642.845.475
  MOUNTAINEERING                        I3.450.642.845.582
  RUNNING                               I3.450.642.845.610
    JOGGING *                           I3.450.642.845.610.320
  SKATING                               I3.450.642.845.700
  SKIING                                I3.450.642.845.775
  SOCCER *                              I3.450.642.845.800
  SWIMMING                              I3.450.642.845.869
    DIVING                              I3.450.642.845.869.110  G3.230.150.
  TENNIS *                              I3.450.642.845.900
  TRACK AND FIELD                       I3.450.642.845.925
  WEIGHT LIFTING *                      I3.450.642.845.950
  WRESTLING *                           I3.450.642.845.975
```

Medical Subject Headings - Tree Structures, 1987 p.426. This can also be viewed online by issuing the command TREE SPORTS.

Figure 1

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

PROG:

POSTINGS     TERM
      1     SPORTMEN (TW)
      1     SPORTOLETTI GC (AU)
    884     SPORTS (MH)
    519     SPORTS (TW)
     76     SPORTS MED (TA)
```

Figure 2

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

PROG:

POSTINGS     TERM
      1     SPORRI (TW)
      1     SPORRONG B (AU)
    197     SPORT (TW)
      2     SPORTA (TW)
      1     SPORTELLI G (AU)
UP N OR DOWN N?

POSTINGS     TERM
      2     SPORTELLI L (AU)
      1     SPORTES M (AU)
      1     SPORTIELLO MG (AU)
      1     SPORTIELLO R (AU)
     41     SPORTING (TW)
      3     SPORTIVE (TW)
      1     SPORTLICHEN (TW)
      1     SPORTMEN (TW)
      1     SPORTOLETTI GC (AU)
    884     SPORTS (MH)
UP N OR DOWN N?
```

Figure 3

CORONARY DISEASE	C14.280.211	
ANGINA PECTORIS	C14.280.211.198	
ANGINA PECTORIS, VARIANT	C14.280.211.198.955	C14.280.211.
ANGINA, UNSTABLE *	C14.280.211.198.970	
CORONARY ANEURYSM	C14.280.211.205	C14.907.55.
CORONARY ARTERIOSCLEROSIS	C14.280.211.210	C14.907.137.
CORONARY THROMBOSIS *	C14.280.211.212	C14.907.854.
CORONARY VASOSPASM	C14.280.211.215	
ANGINA PECTORIS, VARIANT	C14.280.211.215.955	C14.280.211.
MYOCARDIAL INFARCTION	C14.280.211.637	
SHOCK, CARDIOGENIC	C14.280.211.637.667	C23.888.789.

Medical Subject Headings - Tree Structures, 1987 p. 108. This can also be viewed online by issuing the command TREE CORONARY DISEASE.

Figure 4

```
SS 1 /C?
USER:
exp sports

PROG:
SS (1) PSTG (2279)

SS 2 /C?
USER:
exp coronary disease


PROG:
SS (2) PSTG (12008)

SS 3 /C?
USER:
coronary circulation

PROG:
SS (3) PSTG (2018)

SS 4 /C?
USER:
coronary vessels

PROG:
SS (4) PSTG (2403)

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

PROG:
SS (5) PSTG (13723)

SS 6 /C?
USER:
1 and 5

PROG:
SS (6) PSTG (64)

SS 7 /C?
USER:
prt ti, mh

PROG:

1
TI  - Jogging and cardiopathy:
      prevention or risk?
MH  - *Coronary Disease/ETIOLOGY/
      PREVENTION & CONTROL
MH  - Death, Sudden/ETIOLOGY
MH  - Human
MH  - *Jogging
MH  - Risk
MH  - *Running
```

Figure 5

```
SS 1 /C?
USER:
nbr coronary disease

PROG:

POSTINGS    TERM
   145      CORONARY CARE UNITS (MH)
  2018      CORONARY CIRCULATION (MH)
  6843      CORONARY DISEASE (MH)
    60      CORONARY THROMBOSIS (MH)
   300      CORONARY VASOSPASM (MH)
UP N OR DOWN N?
USER:
```

Figure 6

```
SS 1 /C?
USER:
all sport:

PROG:
SS (1) PSTG (1448)


SS 2 /C?
USER:
all coronary disease

PROG:
SS (2) PSTG (6843)

SS 3 /C?
USER:
all coronary circulation

PROG:
SS (3) PSTG (2018)

SS 4 /C?
USER:
all coronary vessels

PROG:
SS (4) PSTG (2403)

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

PROG:
SS (5) PSTG (9328)

SS 6 /C?
USER:
1 and 5

PROG:
SS (6) PSTG (40)

SS 7 /C?
USER:
prt ti, mh

PROG:

1
TI  - Sudden death during sport
      activity
MH  - Adolescence
MH  - Adult
MH  - Cardiomyopathy, Hypertrophic/
      COMPLICATIONS
MH  - Case Report
MH  - Child
MH  - Coronary Disease/COMPLICATIONS
MH  - Coronary Vessel Anomalies/
      COMPLICATIONS
MH  - Death, Sudden/*ETIOLOGY
MH  - Doping in Sports
MH  - Human
MH  - Male
MH  - *Sports
MH  - Subarachnoid Hemorrhage/
      COMPLICATIONS
```

Figure 7

Serials Update

INDEXED TITLES UPDATE, MAY 1987

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, APRIL 1987

INI ARCHIVES OF PSYCHIATRIC NURSING
ARCH PSYCHIATR NURS
1N1,FEB 1987--
GRUNE AND STRATTON
ORLANDO FL UNITED STATES
INDEXING BEGAN WITH V1N1,FEB 1987.
IN PROCESS 0883-9417
SR0058650 JC: 6YR
GRUNE AND STRATTON,6277 SEA HARBOR DR.,ORLANDO FL 32821

HLI JOURNAL OF MEDICAL PRACTICE MANAGEMENT
J MED PRACT MANAGE
1N1,JUL 1985--
WILLIAMS AND WILKINS
BALTIMORE UNITED STATES
CALLED ALSO: MEDICAL PRACTICE MANAGEMENT.
INDEXING BEGAN WITH V1,1985.
WI JO753W 8755-0229
SR0052089 JC: JMP

INI JOURNAL OF NATIONAL BLACK NURSES ASSOCIATION
J NATL BLACK NURSES ASSOC
1N1,SPRING 1986--
NATIONAL BLACK NURSES ASSOCIATION
BOSTON UNITED STATES
SPINE TITLE: JNBNA JOURNAL.
INDEXING BEGAN WITH V1N1,SPRING 1986.
WI JO777M 0885-6028
SR0058198 JC: JAS

INI NEPHROLOGY NEWS AND ISSUES
NEPHROL NEWS ISSUES
1N1,FEB 1987--
NEPHROLOGY NEWS AND ISSUES
HUNTINGTON BEACH UNITED STATES
CA
INDEXING BEGAN WITH V1N1,FEB 1987.
ON ORDER
SR0059661 JC: NUB

HLI QUALITY ASSURANCE AND UTILIZATION REVIEW
QUAL ASSUR UTIL REV
1N1,FEB 1986--
WILLIAMS AND WILKINS
BALTIMORE UNITED STATES
OFFICIAL JOURNAL OF THE AMERICAN COLLEGE OF UTILIZATION REVIEW PHYSICIANS.
INDEXING BEGAN WITH V1N1,1986.
WI QU153KF 0885-713X
SR0056342 JC: QAU

HLI SECOND OPINION
SECOND OPIN
1,1986--
PARK RIDGE CENTER
PARK RIDGE IL UNITED STATES
INDEXING BEGAN WITH V1,1986.
WI SE217W 0890-1570
SR0056954 JC: SEC

TITLE CHANGES, APRIL 1987

IM BAILLIERES CLINICAL ENDOCRINOLOGY AND METABOLISM
BAILLIERES CLIN ENDOCRINOL METAB
1N1,FEB 1987--
BAILLIERE TINDALL
LONDON ENGLAND
CONTINUES: CLINICS IN ENDOCRINOLOGY AND METABOLISM.
INDEXING BEGAN WITH V1N1,FEB 1987.
W1 BA46EE 0950-351X
SR0059631 JC: 9JL

HLI CAP TODAY
CAP TODAY
1N1,JAN 1987--
COLLEGE OF AMERICAN PATHOLOGISTS
SKOKIE IL UNITED STATES
PRECEEDED BY AN INTRODUCTORY ISSUE DATED NOV 1986. FORMED BY THE UNION OF: PATHOLOGIST; LAP NEWSLETTER; SUMMING UP; Q-TIPS; PERCEPTIONS (SKOKIE,ILL.); CAPITOL SCAN; AND: COUNTERPOINTS (SKOKIE,ILL.).
INDEXING BEGAN WITH V1N1,JAN 1987.
W1 CA709 0891-1525
SR0058949 JC: CAP

IM GENOME
GENOME
29N1,FEB 1987--
NATIONAL RESEARCH COUNCIL OF CANADA
OTTAWA CANADA
CONTINUES: CANADIAN JOURNAL OF GENETICS AND CYTOLOGY.
W1 GE336 0831-2796
SR0058053 JC: FNP

HLI INFORM
INFORM
1N1,JAN 1987--
ASSOCIATION FOR INFORMATION AND IMAGE MANAGEMENT
SILVER SPRING MD UNITED STATES
CONTINUES: JOURNAL OF INFORMATION AND IMAGE MANAGEMENT, WHICH IS NOT IN THE NLM COLLECTION. THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V1N1,JAN 1987.
AHA 0892-3876
SR0059669 JC: INF

IM SCANNING MICROSCOPY
SCANNING MICROSC
1N1,MAR 1987--
SCANNING MICROSCOPY INTERNATIONAL
CHICAGO UNITED STATES
CONTINUES: SCANNING ELECTRON MICROSCOPY.
W1 SC155MH 0891-7035
SR0059628 JC: UEC

TITLES NO LONGER INDEXED AS OF APRIL 1987

IDL ACTA CLINICA ODONTOLOGICA
ACTA CLIN ODONTOL
1980-7N13-14,1984
SOCIEDAD ANTIOQUENA DE ENDODONCISTAS
MEDELLIN COLOMBIA
CONTINUES: REVISTA NATIONAL DE ENDODONCIA PUBLISHED BY SOCIEDAD ANTIOQUENA DE ENDODONCISTAS.
W1 AC7836
A05000000 JC: OKZ

IM CURRENT TOPICS IN EYE RESEARCH
CURR TOP EYE RES
1,1979-4,1984
ACADEMIC PRESS
NEW YORK UNITED STATES
INDEXING BEGAN WITH V.1, 1979
W1 CU82HH 0190-2970
C57805000 JC: DWS

HLI GRANTS MAGAZINE
GRANTS MAG
1,MAR,1978-9N2,JUN 1986
PLENUM PRESS
NEW YORK UNITED STATES
INDEXING CEASED WITH V9N1,1986.
W1 GR228 0160-9734
G11280000 JC: GH5

IDL JOURNAL OF CLINICAL DYSMORPHOLOGY
J CLIN DYSMORPHOL
1N1,SPRING 1983-3N1,SPRING 1985?
MARCH OF DIMES BIRTH DEFECTS FOUNDATION, CENTER FOR BIRTH DEFECTS INFORMATION SERVICES
BOSTON UNITED STATES
CONTINUES: SYNDROME IDENTIFICATION.
W1 JO587P 0736-4407
J16665000 JC: JCD

IDL JOURNAL OF THE NEBRASKA DENTAL ASSOCIATION
J NEBR DENT ASSOC
8,1931-61,1984/85
LINCOLN NE UNITED STATES
CONTINUES NEBRASKA DENTAL NEWS.
W1 JO941Q 0028-1832
J30880000 JC: JA7

*U.S. G.P.O. 1987-181-306:60003

ISSN 0146-3055
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No. 218

The NLM Technical Bulletin

GRATEFUL MED Users
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Notification of New Rates for MEDLARS® Databases

Lois Ann Colaianni
Associate Director, Library Operations

Henry M. Kissman, Ph.D.
Associate Director, Specialized Information Services

At its May 1987 meeting, the NLM Board of Regents reviewed the MEDLARS costs and charges. Based on this review, the Board recommended changes in the charges for online access and offline pages. This article serves as notification required in NLM's Memorandum of Understanding of an increase in online charges and offline page charges effective October 1, 1987. The new NLM Online Pricing Algorithm Charges chart may be found in Appendix A.

In addition, NLM is making several changes to some databases that will substantially lower their search costs. Online and page costs for TOXNET® files will be reduced to align these with the costs for the other MEDLARS databases. RTECS®, now an ELHILL® file, will be moved to the TOXNET system in October; its online and page costs will be reduced to approximately the general MEDLARS level at that time. Furthermore,

Continued on page 13.

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • National Institutes of Health
National Library of Medicine

MEDLARS DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL COMPUTER				
AVLINE	16,063	THROUGH 1987	03 JUL 87	
BIOETHICS	22,802	JAN 73-1987	06 JUN 87	8706(EM)
CANCERLIT	590,122	JAN 63-JUNE 87	30 MAY 87	8706(EM)
CANCERPROJ	10,183	THROUGH 1986	05 JUL 86	8607(EM)
CATLINE	618,336	THROUGH 1987	03 JUL 87	
CHEMLINE	751,196		13 JUN 87	8706(EM)
CLINPROT	6,073		18 JUN 87	8706(EM)
DIRLINE	15,557		07 FEB 87	
HEALTH	381,934	JAN 75-JUL 87	06 JUN 87	8707(EM)
HISTLINE	77,300		06 JUN 87	8706(EM)
MEDLINE	653,711	JAN 85-JUL 87	30 MAY 87	8707(EM)
MED83	584,278	JAN 83-DEC 84	21 MAR 87	
MED80	804,720	JAN 80-DEC 82	21 MAR 87	
MED77	774,964	JAN 77-DEC 79	02 MAY 87	
MED75	642,573	JAN 75-DEC 76	16 MAY 87	
MED71	882,889	JAN 71-DEC 74	05 JUN 87	
MED66	954,329	JAN 66-DEC 70	15 JUN 87	
MESH VOC	61,227	1987	29 JUN 87	
NAME AUTH	286,514		29 JUN 87	
PDQ			29 JUN 87	
POPLINE	151,736	1970-JUN 87	06 JUN 87	8706(EM)
RTECS	88,700	THROUGH APR 87	04 JUN 87	
SDILINE	27,331	JUL 87	30 MAY 87	8707(EM)
SERLINE	69,010	1987	16 JUN 87	
TOXLINE	995,072		13 JUN 87	8706(EM)
CBAC	534,316	1981-VOL 106(10,11)		
TOXBIB	199,275	1981-JUL 1987		
IPA (ASHP)	46,184	1981-VOL 24(11)		
BIOSIS	70,691	1985-MAY 1987		
HEEP	49,788	1981-85 V.14(8)		
PESTAB	1,536	1981		
EMIC	12,899	1981-MAR 1986		
ETIC	15,176	1981-NOV 1986		
TD3	28,204	1981-GRA&I 87(4,5,6)		
HMTC	2,746	1981-APR 1987		
ILO	5,856	1981-JUN 87		
RPROJ/CRISP	16,086	FISCAL YEARS 1983, 1984, 1985		
ANEUPLOIDY	3,593	1969-JUN 1986		
EPIDEMIOLOGY	8,722	1940-JAN 1987		
TOXBACK76	555,808		27 AUG 84	
CBAC	298,383	1976-1980		
TOXBIB	106,643	1976-1980		
IPA(ASHP)	33,321	1976-1980		
HEEP	63,796	1976-1980		
PESTAB	14,757	1976-1980		
EMIC	17,267	1976-1980		
ETIC	11,970	1976-1980		
TD3	9,671	1976-1980		
TOXBACK65	598,424		27 AUG 84	
CBAC	287,992	1965-1975		
TOXBIB	155,387	1965-1975		
IPA(ASHP)	33,876	1969-1975		
HEEP	54,075	1970-1975		
HAPAB/PESTAB	18,416	1968-1975		
EMIC	19,554	1950-1975		
ETIC	13,694	1950-1975		
TD3	839	PRE-1965-1975		
HAYES	10,039	1940-1968		
TMIC	4,552	1940-1975		
TOXNET COMPUTER				
CCRIS	1,165		28 APR 87	
HSDB	4,150		16 JUN 87	

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Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 that is considered most relevant to the item being discussed, e.g., (Manual 4.7.2). Users should keep in mind that the item may pertain to other sections as well.

NLM USE EXCEEDS 10,000 CODES

NLM is pleased by the number of new MEDLARS code applications it receives each month. Recently, a milestone was reached as the MMS staff processed its 10,000th User ID code.

In September 1984, when NLM introduced its course to train librarians to teach "The Basics of Searching MEDLINE" to their faculty and staff, there were 3,988 domestic and foreign codes. A year later, primarily as a result of the Health Professional Training program, the number rose to 5,253. By the end of September 1986, total codes rose to 8,223 mostly as a result of the introduction of GRATEFUL MED™ . Seven months later there were 10,200 codes: 8,800 domestic and 1,400 non-U.S.

TOXNET DOWNTIME CHANGE

The TOXNET computer is no longer down for a system copy on the third Thursday of every month from 9:00 pm to 1:00 am ET as previously announced in the October 1985 *NLM Technical Bulletin.*

Please be reminded, though, that a system copy is performed on the TOXNET system between 10:00 pm and approximately 11:30 pm ET, Monday-Friday. TOXNET is unavailable during these hours.

CANCERPROJ®, POPLINE USING 1987 MESH®

CANCERPROJ became available for searching using 1987 MeSH in February 1987 when year-end processing of the file was completed.

Year-end processing of POPLINE to reflect 1987 MeSH vocabulary changes was completed in mid-April.

PHONES LIST

Enclosed with this issue of the *NLM Technical Bulletin* is an updated list of telephone numbers which can be used to access the NLM computers.

2400 baud access instructions were issued as Appendix A of the March *NLM Technical Bulletin.* Both the NLM ELHILL mainframe computer and the TOXNET mini-computer can be accessed at 2400 baud.

CHANGE OF ADDRESS

Beginning with this issue of the *NLM Technical Bulletin* a change of address form is provided on the last page. This form should be completed and returned to the MEDLARS Management Section if either the Administrative/*NLM Technical Bulletin* address or the Billing address have changed for a MEDLARS User ID Code. Please note that the Administrative/Bulletin address should be that of the primary searcher or someone who will route the *NLM Technical Bulletin* to interested associates who search MEDLARS databases.

Please access **FILE INFORM** *and type* **NEWS** *to see the most recent news items online!*

Changes in NLM's Online Update Program

Patricia C. Buchan
NLM Online Services Training Coordinator
MEDLARS Management Section, NLM

Traditionally in the fall of each year, the National Library of Medicine has prepared the Technical Resource Persons (TRP's) from the Regional Medical Libraries to present Annual Online Updates throughout the U.S. During the past several years, because of the unprecedented increase in the number of online searchers, only a small percentage (25%) of MEDLARS searchers have been able to take advantage of attending the in-person Updates. Restrictions such as time, staff coverage, budgets, and geographic distance have prohibited wide-spread attendance at the Updates which are held in numerous sites throughout the seven Regions. In addition, evaluations received from those who were in attendance at the Online Updates, indicate that, although searchers believe it is necessary to receive updates regularly about system changes, they do not feel the current method of presentation is of particular value.

With these factors in mind, and in an attempt to reach as many searchers as possible, the National Library of Medicine plans to replace the in-person Online Updates during the Fall of 1987 with an alternative method of providing updates for the online searcher. A special issue of the *NLM Technical Bulletin* will be devoted to the information that would be conveyed in the Online Updates. The special Update Issue will summarize major changes occurring during the previous year and highlight anticipated changes. It will also serve as a document that can be used as a reference source for the online searcher. In the months following this Update Issue, which will appear sometime during the December through February time period, subsequent issues of the *NLM Technical Bulletin* will include articles that will expand upon specific items which have been announced in the Update Issue.

The benefits of using a document to deliver the Update information include:

A. The special issue will reach every MEDLARS Search Center as well as each individual holding a User ID Code.

B. The preparation of the Online Update by the NLM Staff has traditionally been performed during the summer months of the year. This has not always been the most advantageous time to prepare the information due to the fact that the "new" system is not fully operational until mid-December. Therefore, many announcements and projections would occur without complete testing of new features. With the new method of presenting the Update information, testing of new or revised features can be much more accurate and reflect what the online searcher can simulate.

C. The Technical Resource Persons will now be available to develop, plan, and present other types of educational programs which had previously not been feasible because of their heavy fall travel schedule.

D. The special Update Issue will be formatted differently from the traditional Online Update Packet. More descriptive articles with numerous search examples will be used to present fully new features with the slant on how changes/additions will impact the online searcher.

This new Update plan is designed to be responsive to the comments of attendees at the Online Updates and to the needs of all searchers including those who, in the past, have been unable to attend Online Updates. During the next year, this method of presenting Update information will be closely monitored and evaluated by the NLM Training Staff in conjunction with the Regional Online Centers' Training Staffs and alternative methods will be studied and appraised for their usefulness in providing annual Update information.

Using the TOXNET Gateway

Philip Wexler
Toxicology Information Program
Specialized Information Services

The TOXNET Gateway to ELHILL was made available to NLM users on May 18, 1987. Its operation and basic features were described in the May 1987 issue of the *NLM Technical Bulletin.* This article illustrates how the Gateway could be used to facilitate online searching for information related to an industrial health problem.

Let's say you are running an HSDB® search on the respiratory effects of chromium compounds in workers. Your company is just starting to manufacture chromium products and the Occupational Health Director has asked you to provide some background data and documentation to help set up a monitoring and surveillance program. Expecting to get data primarily on the lung, you are surprised when preliminary HSDB online search results indicate the nose as a site highly susceptible to injury by chromium. You decide to interrupt your HSDB session to search for some recent articles reviewing in greater detail the potentially ulcerative effects of chromium on the nose, particularly the nasal septum. Presenting your interim findings to the Occupational Health Director, you are further instructed to search for other compounds which tend to injure the nasal septum. Following (Figure 1) is the display of a search session that might be used to tackle such a problem. Figure 2 presents a summary of the search session.

The user may continue broadening or restricting the HSDB search until satisfactory results are achieved.

The Gateway permits a single command transfer to an ELHILL file, such as TOXLINE. Once there, the user may switch back and forth among ELHILL files using the standard FILE command. The return trip to TOXNET is similarly quick and simple. We would appreciate hearing of other situations where the Gateway has proved helpful.

```
SS 1 /C?                              [User has accessed TOXNET and begins
USER:                                  searching HSDB]
(nf) chrome or chromate or chromic or chromium or chromite or chromyl
    SEARCH IN PROGRESS...

SS (1) PSTG (48)

SS 2 /C?
USER:
same (htox) all worker: or all occupation:
    SEARCH IN PROGRESS...
MM (WORKER:) (2)

MM (OCCUPATION:) (4)

800 OCCURRENCES IN 455 RECORDS
SS (2) PSTG (455)

SS 3 /C?
USER:
same (htox) inhalation or respiratory
    SEARCH IN PROGRESS...
1084 OCCURRENCES IN 812 RECORDS
SS (3) PSTG (812)

SS 4 /C?
USER:
same (htox) 2 and 3                   [Searches HSDB for data related to
    SEARCH IN PROGRESS...              respiratory hazards of chromium
109 OCCURRENCES IN 92 RECORDS          compounds to workers]
SS (4) PSTG (92)

SS 5 /C?
USER:
1 and 4
    SEARCH IN PROGRESS...
SS (5) PSTG (19)

SS 6 /C?
USER:
prt 2 skip 6 hits continuous

HSN  - 910
NAME - CHROMIUM
SY   - CHROME **ACCEPTED**
SY   - CHROME (FRENCH) **ACCEPTED**
HTOX - Chromate manufacture workers showed perforated nasal septums from
       0.005-0.17 mg/cu m Cr (VI) exposure 8 hr/day: 39.3% of those
       exposed 0.5-3 yr, 55.4% of those exposed 3-10 yr, 69.6% of those
       exposed over 10 yr. Also, 10 confirmed cases of pulmonary cancer
       resulted from 0.03-1.1 mg/cu m for 4-24 yr. Death from
       respiratory cancer was increased 29 times for exposed individuals
       of all ages versus non-exposed, increased 40 times for ages
       15-44, 30 times for ages 45-55 and 20 times for ages 55-74.
       [Gafafer WM; US Fed Public Health Service Pub No. 192 (1953) as
       cited in Nat'l Research Council Canada; Effects of Chromium in
       the Canadian Envir p.107,109 (1976) NRCC No.15017] **UNREVIEWED**
```

Figure 1A

```
HSN  - 990
NAME - CHROMYL CHLORIDE
SY   - CHROMIC OXYCHLORIDE **ACCEPTED**
SY   - CHROMIUM (VI) DIOXYCHLORIDE **ACCEPTED**
SY   - CHROMIUM CHLORIDE OXIDE **ACCEPTED**
SY   - CHROMIUM CHLORIDE OXIDE [CRO2CL2] **ACCEPTED**
SY   - CHROMIUM DICHLORIDE DIOXIDE **ACCEPTED**
SY   - CHROMIUM DIOXIDE DICHLORIDE **ACCEPTED**
SY   - CHROMIUM DIOXYCHLORIDE **ACCEPTED**
SY   - CHROMIUM OXYCHLORIDE [CRO2CL2] **ACCEPTED**
SY   - CHROMIUM, DICHLORODIOXO- **ACCEPTED**
SY   - CHROMYL CHLORIDE [CRO2CL2] **ACCEPTED**
HTOX - Effects on the upper respiratory tract have been observed in
       workers in chromium-related industries. The major effects of
       chromium on this system include ulceration of the nasal septum,
       with subsequent perforation, and chronic rhinitis and
       pharangitis. Early studies indicated that approximately one-half
       to four-fifths of the workers in chromate plants had perforated
       nasal septa, at levels of exposure that approached 1 mg/cu m.
       Subsequent work indicated that chromic acid levels exceeding 0.1
       mg/cu m also caused perforated septa in some workers. /Chromates/
       [USEPA; Health Assessment Document: Chromium p.2-8 (1984) EPA
       600/8-83-014F] **UNREVIEWED**

SS 6 /C?
USER:                                   [Initiates transfer through TOXNET
file toxline                             Gateway]

You are trying to connect to the TOXLINE file.
The requested file is on the ELHILL system and you are now
being connected via the TOXNET GATEWAY.

Please begin searching when the connection is complete and the USER:
prompt displays.

To return to your TOXNET session, exit from ELHILL with the
STOP Y command.

To exit completely, return to TOXNET and then type another
STOP Y command.
>>
>>NLM TIME 14:57:53 DATE 87:160 LINE 680 GM#020
>>
  WELCOME TO THE NATIONAL LIBRARY OF MEDICINE'S ELHILL RETRIEVAL SYSTEM.
>>YOU ARE NOW CONNECTED TO THE MEDLINE (1985 FORWARD) FILE.
>>
>>SS 1 /C?
>>USER:
>>
>>PROG:
>>YOU ARE NOW CONNECTED TO THE TOXLINE (1981 FORWARD) FILE.
>>
>>SS 1 /C?
>>USER:

                                        [Searches TOXLINE for literature on
                                         nasal septum injuries caused by
USER:                                    chromium]
nasal and all sept:
PROG:
SS (1) PSTG (121)
```

Figure 1B

```
SS 2 /C?
USER:
1 and all chrom###
PROG:
SS (2) PSTG (20)

SS 3 /C?
USER:
ts (ti) :sept:
PROG:
SS (3) PSTG (3)

SS 4 /C?
USER:
prt compr
PROG:

1
AU  - Zimmermann HJ ; Konietzko H ; Apel H
TI  - Perforations of the nasal septum in workers of a chromium-plating
      plant
SI  - CA/104/212415E
SO  - Zentralbl. Arbeitsmed., Arbeitsschutz, Prophyl. Ergon.; VOL 36,
      ISS 3, 1986,65-7

2
AU  - BOCK E
TI  - NASAL SEPTUM PERFORATION FOLLOWING 10-YEAR EXPOSURE TO
      CHROMIUM-VI
SI  - BIOSIS/85/09762
SO  - ARBEITSMED SOZIALMED PRAEVENTIVMED; 20 (2). 1985. 47.

3
AU  - Kowalska S ; Su:kowski W
TI  - [Perforation of the nasal septum of occupational origin]
SI  - TOXBIB/83/296873
SO  - Med Pr; VOL 34, ISS 2, 1983, P171-5

SS 4 /C?
USER:
stop y                              [Uses Gateway to exit ELHILL
                                     and return to TOXNET]
TIME  0:01:27     NLM TIME 14:59:20
...

PROG:

GOOD-BYE!
THE ESTIMATED TOTAL ONLINE COST FOR THIS 1 MINUTE TERMINAL SESSION IS $
2.53.

*** END OF SESSION ***

TYMNET: call cleared by request

                          ***Disconnected from ELHILL.***

You are now back in the TOXNET system.  You may continue with your
TOXNET session already in progress.
```

Figure 1C

```
You are connected to the HSDB file.

SS 6 /C?
USER:                                  [Note return to same point in
same (htox) nasal and all sept:         TOXNET/HSDB session]
    SEARCH IN PROGRESS...
MM (SEPT:) (6)
                                       [Searches HSDB for data on other
55 OCCURRENCES IN 33 RECORDS            chemicals which may damage the
SS (6) PSTG (33)                        nasal septum]

SS 7 /C?
USER:
6 and not 1
    SEARCH IN PROGRESS...
SS (7) PSTG (15)

SS 8 /C?
USER:
prt 3 hits continuous


HSN  - 228
NAME - SULFUR DIOXIDE
HTOX - ...DILATION OF BLOOD VESSELS IN CERTAIN REGIONS. ULCERATION OF
       NASAL SEPTUM, WHICH BLEEDS READILY... [ENCYC OCCUPAT HEALTH &
       SAFETY 1971 , p. 1370] **ACCEPTED**


HSN  - 245
NAME - COPPER NAPHTHENATE
HTOX - Inhalation of dust and mists of copper salts in considerably
       higher but generally unmeasured concn can result in congestion of
       nasal mucous membranes, sometimes of the pharynx and, on
       occasion, ulceration with perforation of the nasal septum.
       If...sufficient concn reach GI tract, they act as irritants
       producing salivation, nausea, vomiting...hemorrhagic gastritis...
       Chronic exposure may result in an anemia but chronic poisoning as
       from lead does not occur. On the skin, copper salts also act as
       irritants producing itching exzema; and on the eye,
       conjunctivitis or even ulceration and turbidity of the cornea.
       /Copper salts/ ND [ACGIH. TLVS. 4TH ED & SUPPL. 1980 , p. 104]
       **UNREVIEWED**

HSN  - 258
NAME - CUPRIC CARBONATE
HTOX - Inhalation of dust and mists of copper salts in considerably
       higher but generally unmeasured concn can result in congestion of
       nasal mucous membranes, sometimes of the pharynx and, on
       occasion, ulceration with perforation of the nasal septum.
       If...sufficient concn reach GI tract, they act as irritants
       producing salivation, nausea, vomiting...hemorrhagic gastritis...
       Chronic exposure may result in an anemia but chronic poisoning as
       from lead does not occur. On the skin, copper salts also act as
       irritants producing itching exzema; and on the eye,
       conjunctivitis or even ulceration and turbidity of the cornea.
       /Copper salts/ [ACGIH. TLVS. 4TH ED & SUPPL. 1980 , p. 104]
       **UNREVIEWED**
```

Figure 1D

```
SS 8 /C?
USER:
stop y                                [Exits the entire MEDLARS system]


TIME  0:07:34      NLM TIME 15:01:52
...


GOOD-BYE!
THE ESTIMATED TOTAL TOXNET COST FOR THIS 5 MINUTE TERMINAL SESSION IS
$ 6.45. (1 minute 43 seconds will be billed by ELHILL)



*** END OF SESSION ***

                                     [NLM will bill $6.45 for the 5 minute
                                      TOXNET (HSDB) session, plus $2.53 for
                                      the session on ELHILL (TOXLINE).]
```

Figure 1E

```
                    Search Statement Summary

HSDB/TOXNET

1.  (nf) chrome or chromate or chromic or chromium or chromite or chromyl
2.  same (htox) all worker: or all occupation:
3.  same (htox) inhalation or respiratory
4.  same (htox) 2 and 3
5.  1 and 4
    prt 2 skip 6 hits continuous
    file toxline

TOXLINE/ELHILL

1.  nasal and all sept:
2.  1 and all chrom###
3.  ts (ti) :sept:
    prt compr
    stop y

HSDB/TOXNET

6.  same (htox) nasal and all sept:
7.  6 and not 1
    prt 3 hits continuous
```

Figure 2

VERSION 2.0

[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated.]

I did some MEDLINE searches a few months ago using GRATEFUL MED and now I would like to see if anything has been written more recently on these subjects. Is there a way to do searches to just get new citations?

Yes, this is called updating your search. Each month NLM updates MEDLINE with over 25,000 references. You can restrict your search to citations added during certain months by using a field called the **Entry Month.** The Entry Month is a four-digit number (YYMM) corresponding to the monthly issue of the printed *Index Medicus* in which the same citation appears. So by including Entry Months you can update searches done previously.

Entry Month values in MEDLINE are a month ahead of the calendar month the citations are actually added to the database. Citations added to MEDLINE in July have an Entry Month of 8708 because these citations will be printed in the August issue of the *Index Medicus.*

In order to perform an update search you must first enter your search on the INPUT Screen the same way you did initially. On any blank **SUBJECT WORDS** line, enter a slash followed immediately by the Entry Month values for the months which have passed since your initial search. For example, if in September you decide to update a search you did in July you would reenter the search on the INPUT Screen and on a blank **SUBJECT WORDS** line you would enter:

/8709 OR 8710

Note that if you are using more than one Entry Month you will need to use the connector, "OR."

The next MEDLINE updates are scheduled for July 5 (8708) and August 1 (8709).

The UPDATE schedule for the upcoming year is published in the October issue of the *NLM Technical Bulletin.* If you have any questions about which Entry Month(s) you should include in your search, please call the Service Desk. Be ready to tell us the date you performed the search that you want to update.

Once the update search is completed you may either print the results or transfer them to a file using the file transfer capability described in last month's column.

Example:

DO YOU HAVE A PRINTER AND WANT TO PRINT (Y/N/F)? F
(Enter "F" to indicate that you want the results to be transferred to a file.)

FILE NAME? B:INSULIN.DOC
(Designate the drive, and enter the name of the file that contains the results of the initial search, including a filename extension if necessary.)

NEW FILE? (Y/N)? N
(Enter "N" since the file is not new.)

The results of this update search will be appended to the end of the file containing the results of the initial search.

GRATEFUL MED users should also note the following articles and/or features in this issue:

NOTIFICATION OF NEW RATES FOR MEDLARS DATABASES, p.1.

TECHNICAL NOTES, p.3.

NLM Trademarks Databases and Services

What does it mean to have a registered name or trademark? Examples used by NLM are GRATEFUL MED™ and MEDLINE® .

The ™ alerts the public that the name has been temporarily granted protection by the U.S. Patent Office while trademark rights are being claimed. The ® notifies the public that the claimed name has been officially accepted and registered as a trademark by the U.S. Patent Office. In both cases, the marks protect these names from improper and/or fraudulent use by others.

There have been recent cases in which registered trademarks such as NLM's MEDLINE, have been used by companies to refer to their own services or products. Improper use of a registered trademark results in confusion and is, in any case, illegal. If you are aware of improper use of any of NLM's protected names, please notify the Chief of the Bibliographic Services Division, NLM.

The following list of NLM databases and services are officially registered as trademarks with the U.S. Patent and Trademark Office or are currently protected while trademark rights are being claimed.

AVLINE®
BIOETHICSLINE®
CANCERLINE®
CANCERLIT®
CANCERPROJ®
CATLINE®
CHEMLINE®
CLINPROT®
COMPFILE®
DIRLINE®
DOCLINE®
DOCUSER™
ELHILL®
GRATEFUL MED™
HISTLINE®
HSDB®
INDEX MEDICUS™
INTROMED®
MEDLARS®
MEDLEARN®
MEDLINE®
MESH®
MESH VOCABULARY FILE®
NAME AUTHORITY FILE®
NAF®
PDQ®
RTECS®
SDILINE®
SERHOLD®
SERLINE®
TDB®
TIRC®
RESPONSE CENTER®
TOXLINE®
TOXNET®
TOX-TIPS™

Notification of New Rates
Continued from page 1.

TOXLINE® will be reconfigured into three files on ELHILL containing non-royalty data in a file still called TOXLINE, and royalty data in two files called TOXLIT and TOXLIT65. TOXLINE costs will be reduced to the general MEDLARS level. For the other two files NLM will continue to collect the required royalties. The TOXLINE changes will become effective in August. Royalties also will continue to be collected for the CHEMLINE® database.

No changes are being made in the charges for leasing the MEDLARS databases.

Monthly Search Hint:

SAVE/SAVESEARCH and STRINGSEARCH: Update

Saving a search is a valuable and cost-effective way to retain search strategies for use in the future and in other databases. Two ways to save a search are the commands SAVE and SAVESEARCH. SAVESEARCH can be used prior to entering the search and SAVE can be used immediately after the search has been entered. Please see Section 5.3 in the *NLM Online Services Reference Manual, 1986* for a more detailed description of SAVE/SAVESEARCH procedures and features, including examples.

Recently, (March 1987) NLM made certain changes to the ELHILL software that compensated for some previously encountered problems in SAVE/SAVESEARCH. These improvements are described below:

- One or more STRINGSEARCHes should execute successfully within a SAVEd search even when that SAVEd search is embedded within the strategy of other SAVEd searches. NLM is still advising searchers not to use STRINGSEARCHing in SAVEd searches when a direct Boolean search is better, e.g., "AND NOT FOR (LA)" is almost always more cost- and computer-efficient than "TS (LA) :ENG:".

- In the past, it was necessary for users to maintain ten percent free space in the area set aside for SAVEd searches. This was to prevent overwriting data if the area filled up. It is no longer necessary to maintain this free space although it's still a good idea to do routine housekeeping of your SAVEd searches and remove those no longer needed.

Searchers may now annotate Parts 5.3.8.2 and 5.3.8.3 in their *Online Services Reference Manual, 1986* as no longer needed.

However, one complex situation is still known to cause problems in SAVE/SAVESEARCH. This condition is the stacking of SAVE ___ REMOVE commands on one line. It is important to remove each SAVEd search separately, one on a line, or one per USER cue. NLM has never endorsed the practice of multiple commands on one line of input because the order of precedence in the software executing these instructions is complex and not fully documented. More importantly, enhancements to the ELHILL software do not allow for command stacking.

There are two messages that users should watch out for when saving searches. These are found in Figure 1.

If the first message is received during a search it is known as a RESTART. It indicates that there is something preventing the successful execution of the SAVEd search and the strategy should be revised, e.g., convert a STRINGSEARCH to a direct Boolean search. Do not execute the search again. Please call MMS for help.

The second message at login indicates that the user's area for SAVEd searches and other code-specific information such as password and stored address must be rebuilt. This must be done by MMS staff and in most cases, all SAVEd searches must be removed and will need to be re-SAVEd by the user.

```
"WELCOME TO THE NATIONAL LIBRARY OF MEDICINE'S ELHILL RETRIEVAL SYSTEM.
YOU ARE NOW CONNECTED TO THE MEDLINE (1985 FORWARD) FILE."

"YOUR USER CODE IS NO LONGER FUNCTIONAL:  PLS CALL MMS"
```

Figure 1

Serials Update

INDEXED TITLES UPDATE, JUNE 1987

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, MAY 1987

IDL DENTAL SCHOOL QUARTERLY / UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO
DENT SCH Q
1N1,1984--
UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO
SAN ANTONIO TX UNITED STATES
INDEXING BEGAN WITH V2N4,1986.
ON ORDER
SR0060037 JC: D96

IDL JOURNAL OF CRANIOMANDIBULAR DISORDERS FACIAL AND ORAL PAIN
J CRANIOMANDIB DISORD FACIAL ORAL PAIN
1N1,1987--
QUINTESSENCE PUBLISHING
LOMBARD IL UNITED STATES
OFFICIAL JOURNAL OF: THE AMERICAN ACADEMY OF CRANIOMANDIBULAR DISORDERS, AND: THE EUROPEAN ACADEMY OF CRANIOMANDIBULAR DISORDERS.
INDEXING BEGAN WITH V1N1,SPRING 1987
ON ORDER 0890-2739
SR0060039 JC: HTG

IDL ODONTOLOGIA BONAERENSE
ONDONTOL BONAER
1N1,1979--
FEDERACION ODONTOLOGICA DE LA PROVINCIA DE BUENOS AIRES
BUENOS AIRES ARGENTINA
INDEXING BEGAN WITH V8N26,JUL-SEP 1986.
ON ORDER
SR0060033 JC: ODO

IDL ORAL MICROBIOLOGY AND IMMUNOLOGY
ORAL MICROBIOL IMMUNOL
1N1,NOV 1986--
MUNKSGAARD
COPENHAGEN DENMARK
INDEXING BEGAN WITH V1N1,NOV 1986.
IN PROCESS 0902-0055
SR0057847 JC: ORA

TITLE CHANGES, MAY 1987

IM ACTA RADIOLOGICA
ACTA RADIOL
28N1,JAN-FEB 1987--
RADIOLOGICAL SOCIETIES OF DENMARK FINLAND NORWAY AND SWEDEN
STOCKHOLM SWEDEN
PUBLISHED BY THE SOCIETIES OF MEDICAL RADIOLOGY IN DENMARK, FINLAND, NORWAY AND SWEDEN. CONTINUES: ACTA RADIOLOGICA: DIAGNOSIS.
W1 AC9411G 0567-8056
SR0060074 JC: ATA

IM AMERICAN JOURNAL OF MEDICAL GENETICS. SUPPLEMENT
AM J MED GENET [SUPPL]
1,1986--
ALAN R LISS
NEW YORK UNITED STATES
SUPPLEMENT TO: AMERICAN JOURNAL OF MEDICAL GENETICS.
W1 AM488BH
SR0060065 JC: AJM

HLI CANADIAN JOURNAL OF MEDICAL RADIATION TECHNOLOGY
CAN J MED RADIAT TECHNOL
18N1,MAR 1987--
CANADIAN ASSOCIATION OF MEDICAL RADIATION TECHNOLOGISTS
OTTAWA CANADA
CONTINUES: CANADIAN JOURNAL OF RADIOGRAPHY, RADIOTHERAPY, NUCLEAR MEDICINE. OFFICIAL PUBLICATION OF THE CANADIAN ASSOCIATION OF MEDICAL RADIATION TECHNOLOGISTS.
IN PROCESS 0319-4434
SR0060029 JC: CJR

IM CANADIAN JOURNAL OF SPORT SCIENCES.
JOURNAL CANADIEN DES SCIENCES DU SPORT
CAN J SPORT SCI
12,1987--
UNIVERSITY OF TORONTO PRESS
DOWNSVIEW ONT CANADA
CONTINUES: CANADIAN JOURNAL OF APPLIED SPORT SCIENCES. SPONSORED BY THE CANADIAN ACADEMY OF SPORTS MEDICINE; THE CANADIAN ASSOCIATION OF HEALTH, PHYSICAL EDUCATION AND RECREATION, THE CANADIAN ASSOCIATION OF SPORTS SCIENCES, THE CANADIAN ATHLETIC THERAPIST ASSOCIATION, THE SPORTS MEDICINE DIVISION OF THE CANADIAN PHYSIOTHERAPY ASSOCIATION, THE COACHING ASSOCIATION OF CANADA.
IN PROCESS 0833-1235
SR0060179 JC: CKB

IM DIAGNOSTIC AND CLINICAL IMMUNOLOGY
DIAGN CLIN IMMUNOL
5N1,1987--
ALAN R. LISS
NEW YORK UNITED STATES
CONTINUES: DIAGNOSTIC IMMUNOLOGY.
W1 DI258EH 0735-3111
SR0060036 JC: DAG

HLI HEALTH CARE MARKETER
HEALTH CARE MARK
1N20,DEC 8 1986--
UNITED COMMUNICATIONS GROUP
BETHESDA MD UNITED STATES
CONTINUES: HEALTH CARE MARKETER AND TARGET MARKET.
IN PROCESS 0884-6596
SR0060069 JC: C4J

IM JOURNAL OF MICROWAVE POWER AND ELECTROMAGNETIC ENERGY
J MICROW POWER ELECTROMAGN ENERGY
20N1,1985--
INTERNATIONAL MICROWAVE POWER INSTITUTE
ONTARIO UNITED STATES
CONTINUES: THE JOURNAL OF ELECTROMAGNETIC POWER.
W1 JO765J 0832-7823
SR0060044 JC: JME

IDL NAVY MEDICINE
NAVY MED
78N2,1987--
NAVAL MEDICAL COMMAND
WASHINGTON DC UNITED STATES
CONTINUES: US NAVY MEDICINE.
IN PROCESS
SR0060176 JC: NVM

IM NEPHROLOGY, DIALYSIS, TRANSPLANTATION
NEPHROL DIAL TRANSPLANT
1N1,1986--
SPRINGER VERLAG
BERLIN GERMANY, WEST
CONTINUES: EUROPEAN DIALYSIS AND TRANSPLANT ASSOCIATION - EUROPEAN RENAL ASSOCIATION. CONGRESS. PROCEEDINGS OF THE EUROPEAN DIALYSIS AND TRANSPLANT ASSOCIATION - EUROPEAN RENAL ASSOCIATION.
W1 NE204FH 0931-0509
SR0057629 JC: N7J

IM SCANDINAVIAN JOURNAL OF PLASTIC AND RECONSTRUCTIVE SURGERY AND HAND SURGERY
SCAND J PLAST RECONSTR SURG HAND SURG
21N1,1987--
ALMQVIST AND WIKSELL
STOCKHOLM SWEDEN
CONTINUES: SCANDINAVIAN JOURNAL OF PLASTIC AND RECONSTRUCTIVE SURGERY.
IN PROCESS
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TITLES NO LONGER INDEXED AS OF MAY 1987

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JOHNS HOPKINS UNIVERSITY PRESS
BALTIMORE UNITED STATES
VOLS. FOR 1978- CALLED ALSO NEW SERIES.
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MEDICINE. SUPPLEMENTS WHICH WAS PUBLISHED
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INDEXING BEGAN WITH N.1,1978.
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APPENDIX A

NLM ONLINE PRICING ALGORITHM CHARGES TO DOMESTIC USERS[1/] (EFFECTIVE OCTOBER 1, 1987)

File	Connect Charge (Per Hour)		Search Statement Charge	Online Citation Charge	Interaction (Carriage Returns	Computer Resources Disk Accesses (Per 100)		Online Character Charges (Per 1,000)		Average Searcher Charges* (Per Hour)	
	Non-Prime	Prime				Non-Prime	Prime	Non-Prime	Prime	Non-Prime	Prime
ELHILL SYSTEM											
MEDLINE & Backfiles	$ 5.10	$ 7.85	$.02	$.01	$.01	$.07	$.13	$.08	$.12	$16.50	$23.50
TOXLIT & Backfile	73.70**	76.45**	.02	.22	.01	.07	.13	.08	.12	110.50	117.50
TOXLINE	5.10	7.85	.02	.01	.01	.07	.13	.08	.12	16.50	23.50
CHEMLINE	59.10***	61.85***	.02	.26***	.01	.07	.13	.08	.12	80.50	87.50
INFORM	5.10	7.85	.02	--	.01	.07	.13	--	--	8.50	11.50
INTROMED	5.10	7.85	.02	--	.01	.07	.13	--	--	8.50	11.50
All Other	5.10	7.85	.02	.01	.01	.07	.13	.08	.12	16.50	23.50
MEDLEARN	16.50	23.50	--	--	--	--	--	--	--	16.50	23.50
PDQ	16.50	23.50	--	--	--	--	--	--	--	16.50	23.50
TOXNET SYSTEM											
HSDB	8.00	10.00	.04	--	.02	--	--	.08	.12	18.60	25.70
CCRIS	8.00	10.00	.04	--	.02	--	--	.08	.12	18.60	25.70
RTECS	8.00	10.00	.04	--	.02	--	--	.08	.12	18.60	25.70
INTROTOX	8.00	10.00	--	--	--	--	--	--	--	8.00	10.00

*Average searcher charges per hour may differ according to computer resources used and citations and characters printed online.

**Includes royalty charges of $68.60 per connect charge and $0.21 per citation charge for TOXLIT and its Backfile (TOX65). Following the TOXLINE reconfiguration August 1, 1987, August and September prices for both TOXLIT and TOXLINE will be somewhat lower than shown here.

***Includes royalty charges of $54.00 per connect charge and $0.25 per citation for CHEMLINE.

On October 1, NLM will increase its charges for pages printed offline.

NLM OFFLINE CHARGES TO DOMESTIC USERS[1/]

Pages	Per Page
MEDLINE and other databases	$0.25
TOXLIT	0.92 (Includes $0.67 royalty charge per page)
CHEMLINE	1.53 (Includes $1.28 royalty charge per page)
TOXNET (HSDB, RTECS or CCRIS)	0.25
Offsearches	**Per File**
All Databases	$1.00 (plus page charges)
Automatic SDI Searches	
SDILINE, HEALTH, AVLINE CATLINE, CANCERLIT, POPLINE, TOXLINE	1.00 (plus page charges)
TOXLIT	4.00 (plus page charges; includes $3.00 royalty charge)

The September 1987 issue of the NLM Technical Bulletin will contain an updated schedule of charges for each database.

1/Non-U. S. online users incur charges under the online pricing algorithm and are charged $3.00 extra on the connect charge portion and $0.10 extra per offline page, and are not charged amounts designated as royalties. These royalties are negotiated separately with and paid by the online International MEDLARS Centers directly to the database producers for TOXLIT, TOXLIT65, and CHEMLINE and not to NLM.

☆U.S. G.P.O. 1987-181-305:60004 A

GRATEFUL MED Users
See page 9

The NLM Technical Bulletin

ISSN 0146-3055
JULY 1987

No. 219

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TOXLINE® Regeneration August 1

Jeanne C. Goshorn
Chief, Biological Information Services Section, SIS

As announced in a previous article, entitled "Preview: TOXLINE Regeneration Plans" in the May 1987 *NLM Technical Bulletin*, NLM will provide the newly regenerated TOXLINE on August 1, 1987, with a segmentation different from the current front file/back file structure. Instead, segmentation will be by subfile. All of the subfiles that do not incur royalty charges will be in a file still called TOXLINE, which will cover all publication years for these subfiles. The other subfiles that do require royalty charges will be placed into two new files, TOXLIT (Toxicology Literature from Special Sources), 1981 - forward, and TOXLIT65, pre-1965 - 1980. The TOXLINE file name alias is TOX. TOXLIT and TOXLIT65 do not have name aliases. CHEMLINE® will be regenerated on or about August 1 to support this new TOXLINE configuration with new Locator (LO) values. The Locator (LO) values of TOXBACK76 and TOXBACK65 will be deleted. The Locator (LO) values of TOXLIT and TOXLIT65 will be added.

Continued on page 6.

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • National Institutes of Health
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MEDLARS DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL COMPUTER				
AVLINE	16,082	THROUGH 1987	17 JUL 87	
BIOETHICS	22,802	JAN 73-1987	06 JUN 87	8706(EM)
CANCERLIT	595,555	JAN 63-JUL 87	03 JUL 87	8707(EM)
CANCERPROJ	10,183	THROUGH 1986	05 JUL 86	8607(EM)
CATLINE	618,934	THROUGH 1987	17 JUL 87	
CHEMLINE	751,196		13 JUN 87	8706(EM)
CLINPROT	6,128		18 JUL 87	8707(EM)
DIRLINE	15,557		07 FEB 87	
HEALTH	384,979	JAN 75-AUG 87	11 JUL 87	8708(EM)
HISTLINE	78,247		11 JUL 87	8707(EM)
MEDLINE	681,555	JAN 85-AUG 87	03 JUL 87	8708(EM)
MED83	584,259	JAN 83-DEC 84	14 JUL 87	
MED80	804,720	JAN 80-DEC 82	21 MAR 87	
MED77	774,964	JAN 77-DEC 79	17 JUL 87	
MED75	642,573	JAN 75-DEC 76	16 MAY 87	
MED71	882,889	JAN 71-DEC 74	05 JUN 87	
MED66	954,329	JAN 66-DEC 70	15 JUN 87	
MESH VOC	61,455	1987	18 JUL 87	
NAME AUTH	286,869		10 JUL 87	
PDQ			29 JUN 87	
POPLINE	152,562	1970-JUL 87	11 JUL 87	8707(EM)
RTECS	88,700	THROUGH APR 87	04 JUN 87	
SDILINE	27,847	AUG 87	03 JUL 87	8708(EM)
SERLINE	69,092	1987	14 JUL 87	
TOXLINE	1,010,509		18 JUL 87	8707(EM)
CBAC	542,239	1981-VOL 106(12,13)		
TOXBIB	202,436	1981-AUG 1987		
IPA (ASHP)	47,168	1981-VOL 24(13,14)		
BIOSIS	73,880	1985-JUN 1987		
HEEP	49,788	1981-85 V.14(8)		
PESTAB	1,536	1981		
EMIC	12,899	1981-MAR 1986		
ETIC	15,176	1981-NOV 1986		
TD3	28,384	1981-GRA&I 87(7)		
HMTC	2,746	1981-APR 1987		
ILO	5,856	1981-JUN 87		
RPROJ/CRISP	16,086	FISCAL YEARS 1983, 1984, 1985		
ANEUPLOIDY	3,593	1969-JUN 1986		
EPIDEMIOLOGY	8,722	1940-JAN 1987		
TOXBACK76	555,808		27 AUG 84	
CBAC	298,383	1976-1980		
TOXBIB	106,643	1976-1980		
IPA(ASHP)	33,321	1976-1980		
HEEP	63,796	1976-1980		
PESTAB	14,757	1976-1980		
EMIC	17,267	1976-1980		
ETIC	11,970	1976-1980		
TD3	9,671	1976-1980		
TOXBACK65	598,424		27 AUG 84	
CBAC	287,992	1965-1975		
TOXBIB	155,387	1965-1975		
IPA(ASHP)	33,876	1969-1975		
HEEP	54,075	1970-1975		
HAPAB/PESTAB	18,416	1968-1975		
EMIC	19,554	1950-1975		
ETIC	13,694	1950-1975		
TD3	839	PRE-1965-1975		
HAYES	10,039	1940-1968		
TMIC	4,552	1940-1975		
TOXNET COMPUTER				
CCRIS	1,165		28 APR 87	
HSDB	4,150		16 JUN 87	

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(301) 496-6193

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National Library of Medicine
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Bethesda, Maryland 20894

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Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 that is considered most relevant to the item being discussed, e.g., (Manual 4.7.2). Users should keep in mind that the item may pertain to other sections as well.

LABOR DAY HOLIDAY SCHEDULE

The NLM computer will be up on a non-guaranteed basis on Monday, September 7, 1987, Labor Day. Non-prime rates will be in effect all day and the MEDLARS® Management Service Desk will not be staffed. DOCLINE® will also be up on a non-guaranteed basis on Monday, September 7, and the DOCLINE Service Desk will not be staffed. The TOXNET® computer system status is always guaranteed with non-prime rates in effect on all holidays. Please see the October 1986, *NLM Technical Bulletin*, Appendix C, for the complete 1987 holiday schedule.

SPECIFYING USER ID CODE ON CORRESPONDENCE

Please include your MEDLARS User ID code on all correspondence directed to the National Library of Medicine (NLM) or on payments or inquiries sent to the National Technical Information Service (NTIS). This will help facilitate resolution of questions and posting of payments.

TOXLINE AUTOMATIC SDI SERVICE

Following the regeneration of TOXLINE August 1, users who currently receive automatic SDI service on the TOXLINE database will automatically receive SDIs from both TOXLINE and TOXLIT for the 8708 (EM) and 8709 (EM) updates with no additional execution charge. Enclosed with the retrieval for the 8707 (EM) update will be a letter explaining the changes and a revised NLM Automatic SDI Request Form, which should be used to notify MMS on which of the files (or both) SDI service is desired. If MMS does not hear from users before October 14 (the date of the 8710 (EM) update), it will assume that service against both files at a total execution charge of $5.00 per search (plus page charges) is desired. The $5.00 is distributed as follows: $1.00 execution fee for TOXLINE; $1.00 execution fee for TOXLIT; and $3.00 royalty fee for TOXLIT. Please refer to the TOXLINE article in this issue as well as the article in the May *NLM Technical Bulletin* for more information on the TOXLINE regeneration.

RTECS® MOVING TO TOXNET SYSTEM

RTECS, currently an ELHILL® file, will be moved to the TOXNET system in October. It will be accessible only on the TOXNET system and will no longer be available on the ELHILL system at that time. Charges for online access and page costs will be the same as for HSDB® and CCRIS files on the TOXNET system.

Remember that TOXNET system charges will be reduced to approximately the general MEDLARS level (MEDLINE, CATLINE®, CANCERLIT®, etc.) in October. Please see the article in the June 1987 *NLM Technical Bulletin* for more information on prices.

CHEMLINE REGENERATION

CHEMLINE will be regenerated on or about August 1 to support the new TOXLINE configuration with new Locator (LO) values. The Locator (LO) values which refer to TOXLINE before regeneration will be deleted. TOXBACK76, TOXBACK65, and CANCERPROJ® locators will be deleted. TOXLIT and TOXLIT65 will be added. The CANCERPROJ locator is being deleted

because the file has not been updated for a long time, and NLM expects that the CANCERPROJ database will be discontinued in the next Fiscal Year. The August *NLM Technical Bulletin* will contain more details on the National Cancer Institute's plans for the CANCERPROJ database.

TOXLINE (AI) TAG IN SERLINE®
(Manual 11.3.2)

An Abstracting and Indexing (AI) tag is being added to SERLINE records for the 1545 journals most frequently cited in TOXLINE. This new AI tag contains the value "TOX", and is directly searchable in the same way as all other AI tags. To date, the SERLINE file contains 1417 titles with the AI tag of "TOX". 1300 of these titles were already in SERLINE; 117 were recently added. The 117 titles are not acquired by NLM because they are out of scope for the collection. They have a call number value of "TOX". The remaining 128 titles will be added to SERLINE as bibliographic authority work is completed. All of this work was done prior to the TOXLINE reconfiguration expected online August 1. Please refer to the article in this issue concerning the TOXLINE regeneration.

Therefore, SERLINE titles labelled "TOX" in the AI field may appear in the new TOXLINE file, the new TOXLIT files, or both.

2400 BAUD ACCESS TO TOXNET®
(Manual 25.2)

TOXNET is now available at 2400 baud through both the TELENET and TYMNET networks. Instructions for accessing TOXNET and other NLM files at this speed appear in Appendix A of the March 1987 *NLM Technical Bulletin.* To access TOXNET through TELENET, use the TOXNET computer address of c 301 633 instead of the ELHILL computer address c 301 20 as is illustrated in the instructions.

TOLL-FREE NUMBERS FROM DIRLINE

The Specialized Information Services is preparing a pocket-sized publication, *Health Hotlines* which lists 800 numbers from the DIRLINE file, with the organization's name and address. *Health Hotlines* will be available in mid-September. To obtain a copy, please send a self-addressed label to: Joan Stonic, National Library of Medicine, Specialized Information Services, Building 38A, Room 3N305, 8600 Rockville Pike, Bethesda, MD 20894.

LIST OF SERIAL TITLE WORD ABBREVIATIONS

The National Library of Medicine frequently receives requests from searchers who want to know how we create journal Title Abbreviations (TA). Our authority is the *List of Serial Title Word Abbreviations* which includes words and their abbreviated forms used for the establishment of abbreviated serial titles. The abbreviations are based on the International Standard ISO 4.

The *List* is available in hard copy and on microfiche. The *List of Serial Title Word Abbreviations, 1985* (hardcopy edition) is an irregular publication containing over 28,000 words which have been abbreviated from 1974 through 1984. Two hardcopy supplements are available containing words abbreviated during 1985 and 1986 respectively. The *List of Serial Title Word Abbreviations* (microfiche edition) is an annual publication on A6 (1:48) microfiche. It contains approximately 31,000 words which have been abbreviated from 1974 through 1986.

Ordering information is as follows:

List of Serial Title Word Abbreviations

Hardcopy edition, 1985 (covers years 1974 - 1984)
ISSN 0259-000X, 510 francs

Hardcopy Supplements:
1985 Supplement, ISSN 0259-0018, 135 francs
1986 Supplement, ISSN 0259-0018, 135 francs

Microfiche edition (covers years 1974-1986)
ISSN 0258-9990, 470 francs

Orders may be sent to: ISDS IC, 20, rue Bachaumont, F-75002 PARIS (France), Telex: SERIALS 680047F, Telephone: 33 (1)42 36 73 81 or 33 (1)45 08 98 37

MEDLARS MINI-MANUAL

Users requesting the *MEDLARS Mini-Manual* from the British Library should make checks payable to The British Library. If users have any comments about this tool, please feel free to contact Peter Dale at the British Library, Bibliographic Services, 2 Sheraton Street, London W1V 4BH, UK. For more information on the *MEDLARS Mini Manual* refer to the article in the March 1987 *NLM Technical Bulletin.*

CLINPROT® INDEX TERM LISTING

The CLINPROT Index Term listing for June 1987 is now available. It may be requested by writing to the MEDLARS Management Section. Please include a self-addressed label with your request. No return postage is necessary.

This is an updated and revised list of NLM databases and services that are officially registered as trademarks with the U.S. Patent and Trademark Office or that are currently protected while trademark rights are being claimed.

AVLINE®
BIOETHICSLINE®
CANCERLINE®
CANCERLIT®
CANCERPROJ®
CATLINE®
CHEMLINE®
CLINPROT®
COMPFILE®
DIRLINE®
DOCLINE®
DOCUSER™
ELHILL®
GRATEFUL MED™
HISTLINE®
HSDB®
ILS®
INDEX MEDICUS™
INTEGRATED LIBRARY SYSTEM®
INTROMED®
MEDLARS®
MEDLEARN®
MEDLINE®
MESH®
MESH VOCABULARY FILE®
NAME AUTHORITY FILE®
NAF®
PDQ® [registered by NCI]
RTECS®
SDILINE®
SERHOLD®
SERLINE®
TDB®
TIRC®
TOXICOLOGY INFORMATION RESPONSE CENTER®
TOXLINE®
TOXNET®
TOX-TIPS™

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TOXLINE Regeneration
Continued from page 1.

Changes to the subfiles that comprise the new TOXLINE database include: (1) the addition of NIOSHTIC, a file of bibliographic references on health and safety produced by the the National Institute for Occupational Safety and Health (NIOSH), and (2) the addition of Poisonous Plants Bibliography, a subfile prepared especially for TOXLINE on the toxic effects of poisonous plants as reported in literature prior to 1976. More recent information on this topic is adequately covered in other TOXLINE subfiles. Another new subfile, TSCATS, which contains references to submissions to EPA's Office of Toxic Substances under the Toxic Substances Control Act (TSCA), is currently being developed and will be added to TOXLINE some time in the Fall. Two older subfiles, which come from collections no longer being updated, the Hayes File on Pesticides with older references on human exposure to pesticides, and the Toxic Materials Information Center File, will be dropped from TOXLINE during the regeneration.

NEW SEARCH FEATURE

A new search feature also will be implemented to allow searching on the alphabetic characters that begin each Secondary Source Identification (SI) field in the TOXLINE/TOXLIT databases. This will allow accurate searching in TOXLINE/TOXLIT for citations that come from a specified subfile. SI's also will continue to be unique identifiers for TOXLINE/TOXLIT records and will still be directly searchable in their entirety. Because of this alteration, there will be some changes in the acronyms by which TOXLINE/TOXLIT subfiles are known. The new acronyms - those abbreviations found in the SI field of each subfile - are listed in Figure 1 for each of the new TOXLINE/TOXLIT databases.

Toxicity Bibliography (TOXBIB), the subfile of toxicity-related information taken from MEDLINE, will now comprise the major portion of the new TOXLINE file. Therefore, we will provide MeSH® indexing on this subfile, complete with full MeSH searching features. The MeSH Headings will still be placed in the TOXLINE Keyword (KW) field to facilitate Text Word searching across the entire TOXLINE file, but now a new field, MeSH Heading (MH), will be present on all TOXLINE records from the TOXBIB subfile. The terms in this field will be directly searchable as MeSH Headings, but they must be qualified with (MH) for searching in TOXLINE. Search terms entered without qualification will be searched in every TOXLINE field except the Keywords (KW) and MeSH Headings (MH) fields. Use of MeSH search features such as explode and subheadings will be allowed (and will cause the search term(s) to be searched in the MH field without the qualification of (MH)). In addition, the TOXLINE PRINT FULL format will be changed to include MeSH Headings.

For the regenerated TOXLINE file, all TOXBIB records were extracted again from MEDLINE to get the 1987 MeSH Headings. Improvements in the profile used for this extraction process have resulted in some additional older records becoming a part of the new TOXBIB subfile. From now on, TOXBIB records will be extracted each year after MEDLINE is class-maintained in order to keep the MeSH Headings current.

As indicated previously, the new organization of the TOXLINE databases has necessitated some changes to the access charges. As shown below in Figure 2, Table I, after the regeneration, TOXLINE use will be billed at the same rate as MEDLINE use. This represents a substantial decrease in the costs for access to the information in this file. The rates shown for the new TOXLIT files reflect the royalty charges that must be collected for use of the component subfiles. However, users are reminded of an online searching technique - SAVESEARCH - in which the lower priced TOXLINE file is used to formulate and refine search strategies which are then used for more cost effective searching of the higher priced TOXLIT files. Table II in Figure 2 shows the rates for TOXLINE, TOXLIT, and TOXLIT65 after the October 1, 1987, MEDLARS price change goes into effect. See the article in the June

NLM Technical Bulletin for details of that price change.

We hope that the new structure and pricing will facilitate access by MEDLARS users to NLM's large collection of references to the toxicology literature.

SUBFILES	SI ACRONYM
TOXLINE	
Aneuploidy File	ANEUPL
Environmental Mutagen Information Center File	EMIC
Environmental Teratology Information Center File	ETIC
Epidemiology Information System	EPIDEM
Hazardous Materials Technical Center	HMTC
International Labour Office	CIS
NIOSHTIC	NIOSH
Pesticides Abstracts	PESTAB*
Poisonous Plants Bibliography	PPBIB
Toxicity Bibliography	TOXBIB
Toxicology Document and Data Depository	NTIS
Toxicology Research Projects	CRISP
TOXLIT AND TOXLIT65	
Chemical-Biological Activities	CA
International Pharmaceutical Abstracts	IPA
Toxicological Aspects of Enviromental Health	BIOSIS**

*Formerly HAPAB
**Formerly HEEP

Note: These previously used labels should be ORed with the current subfile label for complete retrieval.

Figure 1

TABLE 1

New NLM Rates for TOXLINE, TOXLIT, TOXLIT65: AUGUST 1, 1987

NLM ONLINE PRICING ALGORITHM CHARGES TO DOMESTIC USERS

File	Connect Charge (Per Hour) Non-Prime	Connect Charge (Per Hour) Prime	Search Statement Charge	Online Citation Charge	Interaction (Carriage Returns	Computer Resources Disk Accesses (Per 100) Non-Prime	Computer Resources Disk Accesses (Per 100) Prime	Online Character Charges (Per 1,000) Non-Prime	Online Character Charges (Per 1,000) Prime
TOXLINE	4.50	7.25	.01	.01	.01	.06	.12	.08	.12
TOXLIT & TOXLIT65	73.10**	75.85**	.01	.22**	.01	.06	.12	.08	.12

**Includes royalty charges of $68.60 per connect charge and $0.21 per citation charge for TOXLIT and its Backfile (TOXLIT65). Royalties have not increased, but reflect the redistribution from TOXLINE to TOXLIT and TOXLIT65.

OFFLINE PROCESSING RATES

Pages

TOXLINE	0.18	
TOXLIT, TOXLIT65	0.85	(Includes $0.67 Royalty Charge)

Automatic SDI Searches (exclusive of page charges)

TOXLINE	1.00	Per Search
TOXLIT	4.00	Per Search (Includes $3.00 Royalty Charge)

TABLE II

New NLM Rates for TOXLINE, TOXLIT, TOXLIT65: OCTOBER 1, 1987

NLM ONLINE PRICING ALGORITHM CHARGES TO DOMESTIC USERS

File	Connect Charge (Per Hour) Non-Prime	Connect Charge (Per Hour) Prime	Search Statement Charge	Online Citation Charge	Interaction (Carriage Returns	Computer Resources Disk Accesses (Per 100) Non-Prime	Computer Resources Disk Accesses (Per 100) Prime	Online Character Charges (Per 1,000) Non-Prime	Online Character Charges (Per 1,000) Prime
CHEMLINE	59.10*	61.85*	.02	.26*	.01	.07	.13	.08	.12
TOXLINE	5.10	7.85	.02	.01	.01	.07	.13	.08	.12
TOXLIT & TOXLIT65	73.70**	76.45**	.02	.22**	.01	.07	.13	.08	.12

* Includes royalty charges of $54.00 per connect charge and $0.25 per citation charge
**Includes royalty charges of $68.60 per connect charge and $0.21 per citation charge

OFFLINE PROCESSING RATES

PAGES

CHEMLINE	1.53	(Includes $1.28 Royalty Charge)
TOXLINE	0.25	
TOXLIT	0.92	(Includes $0.67 Royalty Charge)

Automatic SDI Searches (exclusive of page charges)

TOXLINE	1.00	Per Search
TOXLIT	4.00	Per Search (Includes $3.00 Royalty Charge)

Figure 2

VERSION 2.0

[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated.]

I get the error message, "PLEASE TURN ON YOUR MODEM," when GRATEFUL MED attempts to call the computer to run my search. What is wrong?

Instructions are sent by GRATEFUL MED to your modem. For example, it tells the modem to dial the telephone numbers that were stored during set-up. If for some reason GRATEFUL MED cannot communicate with your modem, the message "PLEASE TURN ON YOUR MODEM" will appear on your screen. Here are some reasons why GRATEFUL MED may not be able to communicate with a modem.

A. The modem is not turned on.

B. The modem's setting or switch for RESULTS CODES is set "incorrectly." The setting for RESULTS CODES should be set so that they are "always sent." Your modem documentation should explain these settings.

C. The equipment is configured so that the modem uses either COM port 3 or COM port 4. GRATEFUL MED is programmed to accommodate modems using COM port 1 or 2. Users with COM port 3 or 4 are advised to call the MEDLARS Management Service Desk 800/638-8480 or 301/496-6193 with the following information about their equipment: the HEX representation of their COM port address (3 characters), and the interrupt code for their COM port. This information can be obtained either in your hardware documentation (computer or modem) or by contacting the manufacturer of the equipment. If you have this information we may be able to assist you in editing GRATEFUL MED so it can successfully communicate with your modem.

D. The modem is not Hayes-compatible. Some modem models, although advertised as Hayes-compatible, are not completely compatible. The bottom line for GRATEFUL MED is whether or not the modem understands the complete Hayes command set. If the answer is, "NO," GRATEFUL MED will not be able to communicate with the modem.

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p. 3.

HSDB® and Material Safety Data Sheets

Philip Wexler
Specialized Information Services, NLM

The Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard outlines requirements for employers to reduce the incidence of workplace chemical hazards. The Standard, also known as a "right-to-know" law because employers must communicate potential hazards to workers, went into effect in November 1985. It calls for a hazard communication program to include labels, material safety data sheets, training, and access to written records. The issue of material safety data sheets (MSDS) surfaced again in the Emergency Planning and Right-to-Know Act of 1986. Among other provisions, this statute required that MSDS' be made available to the public. Many TOXNET users have found HSDB helpful in the preparation of material safety data sheets. This article will use a chart to examine the MSDS provisions of the article Standard and suggest how HSDB data fields may be used in the preparation of such sheets.

Although the Hazard Communication Standard does not dictate a rigid MSDS format, some basic information must be gathered for each chemical. The chart entitled "MSDS Data in HSDB" (Figure 1) summarizes these basic information requirements and suggests where in HSDB such information may be found. The first column is the short name assigned to the main information categories outlined in the Standard. The next column describes these categories. The third column lists suggested HSDB fields, and the fourth column contains comments about these fields.

Readers should compare Figure 1 with the full Standard. The full Standard was published in the *Federal Register* on November 25, 1983 (Vol. 48, No. 228) and appears in the *Code of Federal Regulations* (29 CFR 1910.1200). Readers will observe that the chart summarizes only some of the MSDS provisions of the Standard. Date of preparation, addresses of manufacturers, and instructions about handling mixtures are among the requirements not summarized. In short, HSDB users whose primary concern is compliance, must not rely upon this chart as the given word. There is no substitute for a close reading of the law. The HSDB fields serve only as examples. No effort was made to include every possible data field that might be used in MSDS preparation. Users are encouraged to acquire a thorough understanding of the Standard and familiarize themselves with the complete file structure of HSDB.

The HSDB is rich in data for MSDS preparation. Several caveats are in order. The HSDB covers some 4200 chemicals, a fair number, but makes no claims about covering the entire world of hazardous chemicals. Further, the HSDB is but one of a number of services, online and printed, which are potentially useful to consult for MSDS'. Other relevant files are HAZARDLINE (1), OHM-TADS (2), RTECS (3), etc. A list of these sources, plus services which actually compile MSDS' for companies or provide their computer software in the form of MSDS templates, is the basis of a chapter in the forthcoming book *Information Resources in Toxicology*, 2nd edition (New York: Elsevier, due October 1987).

SUBJECT	DESCRIPTION	HSDB FIELDS	COMMENTS
IDENTITY	IDENTITY	ID (**)	The ID category includes fields containing names, synonyms, and identifying numbers.
PHYSICAL/CHEMICAL PROPERTIES	Physical/chemical characteristics, e.g., vapor pressure & flash point.	CPP (**)	A wide range of chemical and physical properties, including Vapor Pressure (VAP).
		FLPT	Flash Point (FLPT), although considered a physical/chemical property in the OSHA standard, occurs in the Saftey and Handling Category (SAFE) of HSDB. Other SAFE fields, like Autoignition Temperature (AUTO) may be considered physical/ chemical properties for MSDS purposes.
PHYSICAL HAZARDS	Physical hazards, including potential for fire, explosion, and reactivity.	HAZS DOT FLAM (*) FIRE (*) EXPL HAZR (*)	These headers and data fields, each within the SAFE category provide data relevant to such physical hazards as fire, explosion, and reactivity potentials.
HEALTH HAZARDS	Health hazards including signs & symptoms of exposure and medical conditions which may be aggravated.	TOXB (**)	Many fields in this category contain data on animal and human toxic effects. Particularly susceptible groups would be listed in POPL.
ROUTES OF ENTRY	Primary route(s) of entry.	RTEX PBEX	RTEX would cover probable routes of human exposure while PBEX provides probable exposures.
EXPOSURE LIMITS	OSHA permissible exposure limit, ACGIH TLV, or other exposure limits.	OPL (*) OREG (*)	Fields within these headers of the Exposure Standards and Regulations (EXSR) Category include OSHA Standards (OSHA), Threshold Limit Values (TLV), and NIOSH Recommendations (NREC).
NTP/IARC/OSHA LISTS	Whether the chemical is listed in the National Toxicology Program (NTP) Annual Report on Carcinogens or has been deemed a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs or by OSHA.	IARC	The IARC field lists summaries and evaluations of the IARC Monographs. OSHA standards appear in the OSHA field. Data from the NTP Annual Report on Carcinogens is carried in the HSDB and a separate field is available for NTP (National Toxicology Program Reports).
SAFETY AND HANDLING	Safe handling and use, including hygienic practices, protective measures & procedures for clean up of spills and leaks.	SAFE (**)	Within this category are data fields devoted to Protective Equipment and Clothing (EQUP), Other Preventive Measures (OPRM) Cleanup Methods (CLUP), and Disposal Methods (DISP).

Figure 1A

CONTROL MEASURES	Control measures, e.g., engineering controls, work practices, or personal protective equipment.	SAFE (**)	Some of the same measures as called for above, would be relevant here. SAFE also contains details on Shipment Methods and Regulations (SHIP) and Storage Conditions (STRG). HSDB does not generally cover engineering controls.
EMERGENCY/FIRST AID	Emergency and first aid procedures.	ANTR DOT	The ANTR field is the best place to find emergency & first aid procedures. Portions of the DOT field are also helpful.

NOTES:

- Data Fields are those mnemonics shown above without asterisks. They represent the basic units of data within HSDB.

- A single asterisk (*) identifies a Header, used to group two or more data fields.

- A double asterisk (**) signifies a Category, used to group related Headers or Data Fields.

- These Unit Record concepts are more fully explained in the TOXNET chapters of the NLM Online Services Reference Manual, 1986.

Figure 1B

(1). HAZARDLINE

Produced by: Occupational Health Services
PW Communications, Inc.
400 Plaza Drive
Seacaucus, NJ 07094

(2). OHM-TADS (Oil and Hazardous Materials/Technical Assistance)

Produced by: Environmental Protection Agency
Washington, DC

Available from: Chemical Information Systems, Inc.
7215 York Road
Baltimore, MD 21212

(3). RTECS Registry of Toxic Effects of Chemical Substances [Data base]. Bethesda, MD:National Library of Medicine.

This file is currently on NLM's ELHILL system. TOXNET users may access it through the TOXNET Gateway. RTECS, in a restructured form, will move to the TOXNET system later this year.

Selected references on the Hazard Communication Standard and the Right-to-Know concept:

Ashford NA, Caldart CC. The "Right-to-Know": toxics information transfer in the workplace. *Annual Review of Public Health* 1985;6:383-401.

Continued

Bayer R. Notifying workers at risk: the politics of the right-to-know. *American Journal of Public Health* 1986;76(11):352-6.

Brower JE, ed. Hazard Communication: Issues and Implementation. [SPT 932] Philadelphia: ASTM, 1986.

Cole HS. Toxic chemical information systems and right-to-know. *Journal of Public Health Policy* 1986;7(1):28-36.

Flynn LT. Understanding OSHA's Hazard Communication Standard. *Drug and Cosmetic Industry* 1986 July;139:32-72.

Fox LA. Complying with Right-to-Know is a state versus Federal problem. *Occupational Health and Safety* 1986;55(4):36-40.

Miller HG. Consistent, accurate data needed for preparing the MSDS. *Occupational Health and Safety* 1986;55(4):31-34.

Task Force on Occupational Health and Safety. American Chemical Society. *Informing Workers of Chemical Hazards: The OSHA Hazard Communication Standard*. Washington, DC: American Chemical Society, 1985 April.

Monthly Search Hint:

How to Suggest a MeSH Heading

Searchers often call or write with suggestions for new Medical Subject Headings (MeSH). These requests are forwarded to the MeSH Section for review. Suggestions for a new heading could include the following:

- a frequently recurring concept
- a term more general than the current MeSH term
- a term more specific than the current MeSH term
- a see under elevated to a major heading
- a term for a concept requiring two or more current headings
- a tree number change
- a change in the scope note or in the annotation
- a subheading

A form, developed by the MeSH Section staff, makes this suggestion process easier for both searchers and the MeSH staff. This form is found in Appendix A and may be freely reproduced. Use the guidelines below to fill out the form. The numbers refer to the numbered sections on the form.

1. Ask for the suggested change specifically and clearly.

2. Supply postings counts if available. For example, there are 100 occurrences of this term as a Text Word in MEDLINE.

3. Provide a reason for a change or an addition in terminology.

4. If the concept or term is new, provide one or more citations to a source which includes the concept.

5. Fill in name, address, and phone number.

The MeSH Section is accepting suggestions now through March 31, 1988 for the 1989 MeSH vocabulary.

Serials Update

INDEXED TITLES UPDATE, JULY 1987

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, JUNE 1987

IM CADUCEUS
CADUCEUS
1N1,1985--
SOUTHERN ILLINOIS UNIVERSITY
SPRINGFIELD IL UNITED STATES
INDEXING BEGAN WITH V1N1,1985.
W1 CA1297 0882-6447
SR0053516 JC: CAD
SOUTHERN ILLINOIS UNIVERSITY,PO BOX 3926,SPRINGFIELD IL 62608

IM CONCEPTS IN IMMUNOPATHOLOGY
CONCEPTS IMMUNOPATHOL
1,1985--
KARGER
BASEL SWITZERLAND
INDEXING BEGAN WITH V1,1985.
W1 CO459RH 0255-7983
SR0051450 JC: COS

IDL DENT
DENT
1N1,1986--
TUNA TIBBI YAYINLAR
IZMIR TURKEY
INDEXING BEGAN WITH V2N1,FEB 1987
ON ORDER
SR0060375 JC: D55
TUNA TIBBI YAYINLAR LTD.,FEVZIPASA BULVARI AZIM HAN KAT:5 NO:505,35210 IZMIR TURKEY

IM FUNCTIONAL NEUROLOGY
FUNCT NEUROL
1N1,JAN-MAR 1986--
CIC EDIZIONI INTERNAZIONALI S.R.L.
ROME ITALY
INDEXING BEGAN WITH V1N1,1986.
W1 FU581H 0393-5264
SR0060290 JC: FUN
CIC EDIZIONI INTERNAZIONALI S.R.L.,VIA L. SPALLANZANI 11,00161 ROME ITALY

HLI HEALTH POLICY AND PLANNING
HEALTH POLICY PLAN
1N1,MAR 1986--
OXFORD UNIVERSITY PRESS IN COOPERATION WITH THE LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE
OXFORD ENGLAND
INDEXING BEGAN WITH V1N1,1986
W1 HE474G 0268-1080
SR0055399 JC: F9Q
OXFORD UNIVERSITY PRESS,WALTON STREET,OXFORD OX2 6DP,UK

IM INTERNATIONAL JOURNAL OF CARDIAC IMAGING
INT J CARD IMAGING
1,1985--
MARTINUS NIJHOFF PUBLISHERS
BOSTON UNITED STATES
INDEXING BEGAN WITH V1N1,1985.
W1 IN765H 0167-9899
SR0052388 JC: IJD
MARTINUS NIJHOFF PUBLISHERS, KLUWER ACADEMIC PUBLISHERS, 190 OLD DERBY STREET, HINGHAM MA 02043

IM INTERNATIONAL JOURNAL OF COLORECTAL DISEASE
INT J COLOR DIS
1N1,JAN 1986--
SPRINGER
BERLIN GERMANY, WEST
INDEXING BEGAN WITH V1N1,1986.
W1 IN766DP 0179-1958
SR0054816 JC: ITF

INI JOURNAL OF BURN CARE AND REHABILITATION
IM
J BURN CARE REHABIL
1N1,SEP/OCT 1980--
BURN SCIENCE PUBLISHERS
DALLAS TX UNITED STATES
OFFICIAL PUBLICATION OF THE AMERICAN BURN ASSOCIATION.
INDEXING FOR INI BEGAN WITH V7N4,JUL-AUG 1986. INDEXING FOR IM BEGAN WITH V8N3,1987.
W1 JO57R 0273-8481
J14885000 JC: HLK

IM JOURNAL OF CHILD NEUROLOGY
J CHILD NEUROL
1,1986--
PSG PUBLISHING
LITTLETON MA UNITED STATES
INDEXING BEGAN WITH V1N1,1986.
W1 JO583P 0883-0738
SR0054821 JC: IA2
PSG PUBLISHING COMPANY, 545 GREAT ROAD, LITTLETON, MASSACHUSETTS 01460

IM JOURNAL OF HEART TRANSPLANTATION
J HEART TRANSPLANT
4N1,NOV 1984--
MOSBY
ST LOUIS UNITED STATES
CONTINUES: HEART TRANSPLANTATION.
SUPPLEMENTS ACCOMPANY SOME ISSUES. JOURNAL OF THE INTERNATIONAL SOCIETY FOR HEART TRANSPLANTATION.
INDEXING BEGAN WITH V4N1,1985.
W1 JO67BT 0887-2570
SR0055512 JC: JHT

HLI JOURNAL OF HOSPITAL MARKETING
J HOSP MARK
1N1/2 FALL/WINTER 1986--
HAWORTH PRESS
NEW YORK UNITED STATES
INDEXING BEGAN WITH V1N1-2,FALL-WINTER 1986.
IN PROCESS 0883-7570
SR0057420 JC: JHM

HLI JOURNAL OF PHARMACEUTICAL MARKETING AND MANAGEMENT
J PHARM MARK MANAGE
1N1,SEP 1986--
HAWORTH PRESS
NEW YORK UNITED STATES
INDEXING BEGAN WITH V1N1,FALL 1986.
IN PROCESS 0883-7597
SR0057425 JC: JOP

IM JOURNAL OF THORACIC IMAGING
J THORAC IMAGING
1N1,DEC 1985--
ASPEN SYSTEMS CORPORATION
GAITHERSBURG MD UNITED STATES
CALLED ALSO: JTI. AN ASPEN PUBLICATION.
INDEXING BEGAN WITH V1N1,1985.
W1 JO966ID 0887-5993
SR0055190 JC: KAU
ASPEN SYSTEMS CORP,BOX 6018,GAITHERSBURG MD 20877

IM NEW ENGLAND AND REGIONAL ALLERGY PROCEEDINGS
NEW ENGL REG ALLERGY PROC
4N1,WINTER 1983--
NEW ENGLAND SOCIETY OF ALLERGY
PROVIDENCE RI UNITED STATES
CONTINUES: THE NEW ENGLAND SOCIETY OF ALLERGY PROCEEDINGS. INCLUDES PROCEEDINGS OF ANNUAL MEETING OF THE AMERICAN ASSOCIATION OF CERTIFIED ALLERGISTS AND OTHER STATE OR REGIONAL ALLERGY SOCIETIES.
QUARTERLY: 1983-1985; BIMONTHLY: 1986-
INDEXING BEGAN WITH V6N1,1985.
W1 NE374L 0742-2814
N14658000 JC: NER
NEW ENGLAND SOCIETY OF ALLERGY, 95 PITMAN STREET, PROVIDENCE RI 02906

INI PROGRESS IN CARDIOVASCULAR NURSING
PROG CARDIOVASC NURS
1N1,OCT/DEC 1986--
J.B. LIPPINCOTT
PHILADELPHIA UNITED STATES
INDEXING BEGAN WITH V2N1,JAN-MAR 1987.
W1 PR6671E 0889-7204
SR0058619 JC: PRN

IM PSYCHIATRIC MEDICINE
PSYCHIATR MED
1N1,1983--
SP MEDICAL AND SCIENTIFIC BOOKS
NEW YORK UNITED STATES
INDEXING BEGAN WITH V1N1,1983.
W1 PS26J 0732-0868
P53280600 JC: Q9Y
SP MEDICAL AND SCIENTIFIC BOOKS, 86-19 SANCHO ST, HOLLISWOOD NY 11423

IM RAYS
RAYS
1,1976--
EDIZIONI MINERVA MEDICA
ROME ITALY
INDEXING BEGAN WITH V10N1,1985.
W1 RA977 0390-7740
R04780000 JC: RAY
INSTITUTO DI RADIOLOGIA,UNIVERSITA CATTOLICA DEL S. COURE, LARGO GEMELLI 8, 00168 ROMA,ITALY

IDL REVUE FRANCAISE D ENDODONTIE
REV FR ENDOD
1,1982?--
ED CDP
PARIS FRANCE
INDEXING BEGAN WITH V5N1,1986.
IN PROCESS 0294-1813
SR0050271 JC: RFE

IM RHEUMATIC DISEASE CLINICS OF NORTH AMERICA
RHEUM DIS CLIN NORTH AM
13N1,1987--
W B SAUNDERS
PHILADELPHIA UNITED STATES
CONTINUES: CLINICS IN RHEUMATIC DISEASES
IN PROCESS 0889-857X
SR0060321 JC: RDC

IM RISK ANALYSIS
RISK ANAL
1N1,MAR 1981--
PLENUM
NEW YORK UNITED STATES
INDEXING BEGAN WITH V5N1,1985.
W1 RI285D 0272-4332
R49930000 JC: RIA

IM SEMINARS IN ADOLESCENT MEDICINE
SEMIN ADOLESC MED
1N1,MAR 1985--
THIEME-STRATTON
NEW YORK UNITED STATES
INDEXING BEGAN WITH V1N1,1985.
W1 SE486D 0748-6480
SR0053594 JC: SAM

IM SEMINARS IN DIAGNOSTIC PATHOLOGY
SEMIN DIAGN PATHOL
1N1,FEB 1984--
GRUNE AND STRATTON
ORLANDO FL UNITED STATES
INDEXING BEGAN WITH V1N1,1984.
W1 SE487N 0740-2570
S19215000 JC: SDP
GRUNE AND STRATTON, P.O. BOX 733, OLD CHELSEA STATION, NEW YORK NY 10113

IM SEMINARS IN NEPHROLOGY
SEMIN NEPHROL
1N1,MAR 1981--
GRUNE AND STATTON
NEW YORK UNITED STATES
INDEXING BEGAN WITH V5N1,1985.
W1 SE489CM 0270-9295
S19266000 JC: SER
GRUNE AND STATTON, 111 FIFTH AVENUE, NEW YORK N.Y. 10003

IM STATE OF THE ART REVIEWS: OCCUPATIONAL MEDICINE
STATE ART REV OCCUP MED
1N1,JAN-MAR 1986--
HANLEY AND BELFUS
PHILADELPHIA UNITED STATES
CALLED ALSO: STATE OF THE ART REVIEWS IN OCCUPATIONAL MEDICINE.
INDEXING BEGAN WITH V1N1,1986.
W1 ST315C 0885-114X
SR0055366 JC: U9P
HANLEY AND BELFUS INC.,210 SOUTH 13TH, PHILADELPHIA PA 19107

TITLE CHANGES, JUNE 1987

IM RHEUMATIC DISEASE CLINICS OF NORTH AMERICA
RHEUM DIS CLIN NORTH AM
13N1,1987--
W B SAUNDERS
PHILADELPHIA UNITED STATES
CONTINUES: CLINICS IN RHEUMATIC DISEASES
IN PROCESS 0889-857X
SR0060321 JC: RDC

TITLES NO LONGER INDEXED AS OF JUNE 1987

IM TRANSACTIONS OF THE KANSAS ACADEMY OF SCIENCE
TRANS KANS ACAD SCI
1,1868/72--
KANSAS ACADEMY OF SCIENCE
LAWRENCE KS UNITED STATES
1868/72 INCLUDES THE TRANSACTIONS OF THE ACADEMY UNDER ITS EARLIER NAME: KANSAS NATURAL HISTORY SOCIETY
INDEXING FOR ONLINE FILES BEGAN WITH V68N1,1965. INDEXING CEASED WITH V90N1,APR 1987.
W1 TR226G 0022-8443
T16960000 JC: W7V

☆U.S. G.P.O. 1987-181-305:60005

APPENDIX A

MeSH USE ONLY
#_____
Date
Referred_____

SUGGESTION FOR MEDICAL SUBJECT HEADINGS CHANGE

1. Suggested change: (One or two sentence statement of what you feel is needed.)

_____

_____

_____

_____

_____

_____

2. How often have you encountered this concept? _____

_____

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

_____

_____

_____

_____

_____

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

_____

_____

_____

_____

5. Name: _____ Date: _____

Address: _____

_____

Phone: ____/_____

CHANGE OF ADDRESS FORM
(U.S. users only)

Please print or type.

User ID Code _____ (Must be included)

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Telephone: _____

New Billing Address:

Name: _____

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Telephone: _____

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Signature

_____
Printed Name

_____
Date

Please affix current address label here:

Please mail this form to:

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National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

ISSN 0146-3055
AUGUST 1987

No. 220

The NLM Technical Bulletin

GRATEFUL MED Users
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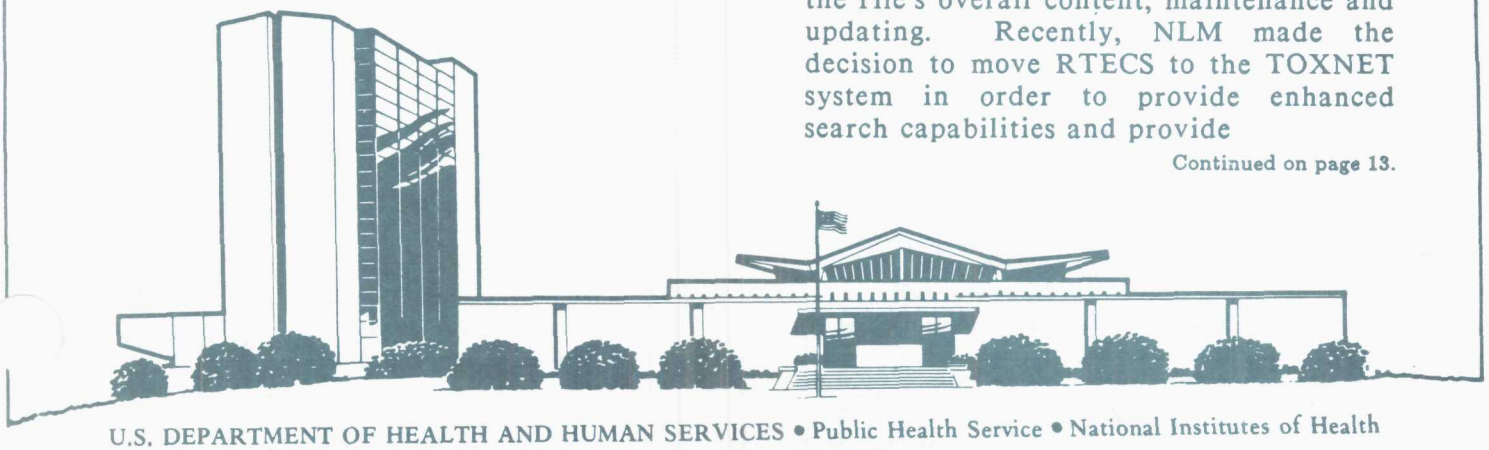
RTECS® Joins the TOXNET® System

Philip Wexler
Jeanne Goshorn
Specialized Information Services Division, NLM

Beginning in October 1987, RTECS (Registry of Toxic Effects of Chemical Substances) will join HSDB® and CCRIS in the TOXNET family of files. RTECS will concurrently remain available in ELHILL® until mid-December 1987, at which time it will be removed and reside solely in TOXNET.

The RTECS file has its origins in the *Toxic Substances List* published in 1971 to comply with the requirements of the Occupational Safety and Health Act of 1970 (PL 591-596). This publication, prepared by the National Institute for Occupational Safety and Health (NIOSH), eventually became known as RTECS. It is published in both paper and microfiche versions. Beginning in 1977 RTECS also became available online via NLM's ELHILL system. NIOSH retained responsibility, as they will continue to, for the file's overall content, maintenance and updating. Recently, NLM made the decision to move RTECS to the TOXNET system in order to provide enhanced search capabilities and provide

Continued on page 13.



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • National Institutes of Health
National Library of Medicine

MEDLARS DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL COMPUTER				
AVLINE	16,170	THROUGH 1987	21 AUG 87	
BIOETHICS	23,202	JAN 73-1987	13 AUG 87	8708(EM)
CANCERLIT	601,134	JAN 63-AUG 87	01 AUG 87	8708(EM)
CANCERPROJ	10,183	THROUGH 1986	05 JUL 86	8607(EM)
CATLINE	620,252	THROUGH 1987	21 AUG 87	
CHEMLINE	751,142		01 AUG 87	8706(EM)
CLINPROT	6,189		22 AUG 87	8708(EM)
DIRLINE	15,557		07 FEB 87	
HEALTH	388,179	JAN 75-SEP 87	08 AUG 87	8709(EM)
HISTLINE	78,363		08 AUG 87	8708(EM)
MEDLINE	709,118	JAN 85-SEP 87	01 AUG 87	8709(EM)
MED83	584,259	JAN 83-DEC 84	14 JUL 87	
MED80	804,720	JAN 80-DEC 82	27 JUL 87	
MED77	774,934	JAN 77-DEC 79	08 AUG 87	
MED75	642,573	JAN 75-DEC 76	16 MAY 87	
MED71	882,889	JAN 71-DEC 74	05 JUN 87	
MED66	954,329	JAN 66-DEC 70	15 JUN 87	
MESH VOC	61,821	1987	22 AUG 87	
NAME AUTH	288,072		22 AUG 87	
PDQ			31 JUL 87	
POPLINE	153,256	1970-AUG 87	08 AUG 87	8708(EM)
RTECS	88,700	THROUGH APR 87	04 JUN 87	
SDILINE	27,568	SEP 87	01 AUG 87	8709(EM)
SERLINE	69,248	1987	13 AUG 87	
TOXLINE	784,377	PRE-1965-1987	01 AUG 87	8707(EM)
TOXLIT	712,925	1981-1987	01 AUG 87	8707(EM)
TOXLIT65	771,593	1965-1980	01 AUG 87	
TOXNET COMPUTER				
CCRIS	1,165		28 APR 87	
HSDB	4,150		24 AUG 87	

Head, MMS: Carolyn B. Tilley
Editor: Kathleen Stenger
Assistant Editor: Annette Morris
Technical Notes Editor: Joyce A. Conner
(301) 496-6193

Direct Inquiries to:
MEDLARS Management Section
National Library of Medicine
Bldg., 38A, Rm. 4N421
Bethesda, Maryland 20894

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Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 that is considered most relevant to the item being discussed, e.g., (Manual 4.7.2). Users should keep in mind that the item may pertain to other sections as well.

COLUMBUS DAY HOLIDAY SCHEDULE

The NLM computer will be up and operational on a guaranteed basis on Monday, October 12, Columbus Day. Non-prime rates will be in effect all day. The MEDLARS® Management Service Desk will not be staffed. DOCLINE® will be available on Monday, October 12, but the DOCLINE Service Desk will not be staffed. The TOXNET computer system status is always guaranteed with non-prime rates in effect on all holidays. Please see the October 1986, *NLM Technical Bulletin*, Appendix C, for the complete 1987 holiday schedule.

NEW COMPUTER

NLM expects to install and make available a new computer in mid-October. The IBM 3081-K32 will be upgraded to an IBM 3084-Q64 computer and will approximately double the computing power. This will be the computer used for searching the ELHILL MEDLARS databases. Please refer to the article published in the October 1986 issue of the *NLM Technical Bulletin* entitled "New NLM Computer: Status and Plans" for more information.

FEDERAL TAX IDENTIFICATION NUMBERS

The Federal Tax Identification Numbers for both NLM and NTIS are listed below. They may be useful to your purchasing department or organization to document that Federal taxes do not need to be paid for online services charges or government publications. State and local taxes may apply.

NLM 53-0196960
NTIS 54-1168333

NEW TOXNET FEATURE

A new feature named TOXNOTES is now part of the TOXNET system and complements the TOXNET NEWS. The NEWS will continue to alert users to changes and new developments in the TOXNET system and its files. TOXNOTES, on the other hand, reports on non-TOXNET topics related to toxicology and hazardous chemicals. Upcoming meetings, courses, and new publications will be covered. TOXNOTES is intended to serve as an electronic bulletin board for toxicology news. Users who have a noteworthy item they would like to share with colleagues may recommend it as a TOXNOTE via the online COMMENT command. If approved, the item will be issued as a TOXNOTE with the user's name and organization acknowledged if desired. TOXNOTES may be viewed by typing either TOXNOTES or NOTES.

ENTRY MONTH IN TOXLINE®

With the reconfiguration of TOXLINE effective August 1, 1987, values in the Entry Month (EM) field were changed in some of the subfiles of TOXLINE. Records in certain subfiles retained their original TOXLINE Entry Month (EM) values, while in others only one or two new Entry Month values were entered for the entire subfile as it was being replaced. Therefore, ranging or sorting on Entry Month for TOXLINE as a whole is no longer as useful as before. Beginning with the first update of the reconfigured files, 8708 (EM) scheduled for August 22, the Entry Month will, of course, be a useful limiting technique for selecting new records added to

TOXLINE with a monthly update. None of the EM values in the TOXLIT or TOXLIT65 royalty files were changed in the reconfiguration.

NEW AND REVISED EXPLAIN COMMANDS

Several ELHILL EXPLAIN descriptions have been created or revised to reflect changes to the ELHILL system. Three new EXPLAIN commands are now available: EXPLAIN TOXLIT, EXPLAIN NOTE, and EXPLAIN RR. The Note (NO) and Related Registry Number (RR) are new fields which were added to the CHEMLINE file and were described in the May 1987 issue of the *NLM Technical Bulletin.* The revised EXPLAINs are: EXPLAIN TOXLINE, EXPLAIN CHEMLINE, and EXPLAIN PRICES (shows prices current as of August 1, 1987). Please note that there are two separate EXPLAINs for the new TOXLINE and TOXLIT files.

TOXLINE SUBFILES DELAY

The NIOSHTIC and Poisonous Plants Bibliography subfiles, planned as new additions to the regenerated TOXLINE file which became available on August 1, 1987, have been delayed while conversion programs are refined and testing is completed. The NIOSHTIC subfile covers the more recent updates to the National Institute of Occupational Safety and Health's extensive file of bibliographic references on health and safety. The Poisonous Plants Bibliography subfile is a file prepared especially for NLM on the toxic effects of poisonous plants as reported in the literature prior to 1976. Both of these subfiles are expected to be added to the TOXLINE file with the August update, 8708 (EM) scheduled for August 22.

INDEX MEDICUS™, JUNE 1987 ISSUE

Subscribers to *Index Medicus* have reported isolated cases of duplicate or missing pages in the June 1987 issue. Please check your copy for the following: repeat of pages 1327-1358 and missing pages 1359-1390. Call the Government Printing Office's Subscription Research Section on (202) 275-3054 if your copy is defective.

The new rates for MEDLARS databases go into effect October 1, 1987. Please refer to the article in the June 1987 issue of the *NLM Technical Bulletin* for more information and the new Online Pricing Algorithm Charges Sheet.

Please access **FILE INFORM** *and type* NEWS *to see the most recent news items online!*

NLM Online Users' Meeting, MLA Annual Meeting, Portland, OR, May 18, 1987

The following questions were posed during the NLM Online Users' Meeting at the recent MLA Annual Meeting. The answers provided are based on the answers given at the time of the meeting, but have been edited and, in some cases, amplified by staff at NLM.

1. Will there be a new edition of the Basics of Searching MEDLINE: A Guide for the Health Professional?

Yes. The target timeframe for the printing of the new guide is fall or winter 1987/1988. At this time, it is not known when NTIS will make *The Basics of Searching MEDLINE* available for distribution. It will be announced in the *NLM Technical Bulletin.* The new guide wil be an updated version of the old with more sample searches and an index.

2. Will there be a capability to selectively print citations i.e., PRT 1,6,7?

Yes, PRINT SELECT should be operational by 1988. One will be able to print any combination of retrieved citations. For example, if one wants to print the third through the fifth, and seventh citations, only one print command is needed.

Other enhancements due at about the same time include:

NEIGHBOR SELECT: A method of generating a numbered list of terms from the index. One or more terms or ranges of terms on this list will be available to be SELECTed and used in a search. This SELECT LIST will be retained for searching as well as displaying during the same connect session.

"NON-RESPONSIVE" ANSWERS TO SYSTEM QUESTIONS: Whenever the system prompts with "CONTINUE PRINTING," or "UP N, DOWN N" (following a NEIGHBOR), or a MULTI-MEANING message, it will be possible to either respond to the query, or enter a search statement. In the latter case, the system will transform the search statement into a FIND command without the user having to remember to type FIND or FD.

Stay tuned. We will be announcing details and instructions of the implementation of these features.

3. When will MeSH have a heading for tumor necrosis factor?

The heading TUMOR NECROSIS FACTOR has been added as a major heading for the 1988 MeSH.

4. Please define "up front" (i.e., asterisked) articles in Index Medicus.

Indexers usually apply a subheading to each MeSH heading when indexing an article for *Index Medicus.* The subheading used indicates the main emphasis of the article. For example, an article on the "diagnosis of lung neoplasms" is indexed "LUNG NEOPLASMS/* diag", and the article appears in *Index Medicus* in the subheading "diagnosis" section under the heading LUNG NEOPLASMS.

If no single subheading is appropriate to indicate the emphasis of an article, indexers do not apply a subheading for *Index Medicus.* For example, an article on the "epidemiology, diagnosis and treatment of lung neoplasms" is to be indexed "*LUNG NEOPLASMS/occur/diag/ther", and the article appears immediately under LUNG NEOPLASMS in *Index Medicus*, and not further down the list in any of the specific subheading sections under LUNG NEOPLASMS.

Articles indexed this way are sometimes referred to informally at NLM as "up front" articles. "Up front" derives from the practice of citing them at the top of the list of articles under a MeSH heading in *Index Medicus*, before any of the specific subheading sections that appear below. (Instructions on how to search for these

articles in MEDLINE appeared in the April 1985 issue of the *NLM Technical Bulletin* as the "Monthly Search Hint: How to Search for the General Aspect of a Topic".)

5. Is NLM working on Nesting or Adjacency?

No, not at the present time.

6. If the published errata policy allows NLM to change and correct a title, can the searcher still find the old uncorrected title in the database?

Following an erratum notice issued by a publisher, NLM corrects a title as shown by the publisher. Since users want correct information, we cite only the correct title and do not retain the incorrect title in the database.

Anyone who wants the incorrect title will have to trace it down, using the reference shown within the erratum rubric we are careful to append to the title. The publisher there usually refers to the wrong as well as the right.

Since there is a lapse of time between the publication of the "wrong" title in *Index Medicus* and the correct title in MEDLINE, the searcher would have access to the wrong title in the monthly Index Medicus issue. The *Cumulated Index Medicus* will only have the corrected title.

7. For those MeSH Headings that have an initial letter, like T-Cell, would they file under T or under C in the Annotated MeSH?

It varies, depending on where the MeSH analyst thinks a searcher or other user would most likely look up the heading. For example, T Lymphocytes is currently sorted under L, while T-Phages is under T. Cross references can also be sorted in a place best suited to the term. An example of this is T Cell Growth Factor see Interleukin 2. As a statistical matter, it seems that most of these terms are currently sorted under the initial character. Finally, we generally sort these terms so that, for example, T-Cell precedes Taboo.

8. The new procedures for the Update (i.e., a special issue of the NLM Technical Bulleti on vocabulary and system changes instead of "in-person updates") will reach more people but I wonder if NLM isn't sacrificing quality?

NLM's recent decision to discontinue in-person online updates in 1987 was taken after months of thought, deliberation and discussion with the Regional Medical Library staffs and other medical librarians. Indeed, the decision was made with the medical librarian/searcher fully in mind.

There were several reasons for our decision to discontinue the in-person updates. First, the amount of information from NLM for each year's update is no longer sufficient to warrant an in-person update. We have been receiving comments that the information content of the updates did not warrant a whole or partial day. Second, except for changes in MeSH and the backfile configuration, system features are changed throughout the year and connot be anticipated in sufficient detail for the updates. Thus, most of the information must be provided throughout the year. A recent example is the TOXNET-ELHILL gateway. Third, the material for the updates had to be prepared in August and was sometimes out-of-date at the time of the update. The new process will provide information in a more timely fashion. This includes the new MeSH terms which can be discussed in early fall. The fourth reason is the small percentage of searchers that are actually coming to the updates. Many librarians did not attend the updates. We must devise clear, interesting methods for communicating updated information to all our users.

The updates have been popular and they were useful in providing an opportunity for searchers to discuss problems. We would like to improve upon these discussions and raise the quality and level of information provided during NLM online sessions.

9. When NLM reconfigures the MEDLINE backfiles this year as has been mentioned in this meeting, would you consider making one massive file like BRS and DIALOG?

Under the current ELHILL retrieval system, we cannot create a single, massive file such

as the other vendors have done, but we will do what we can to reduce the number of physical backfiles. Effective mid-December 1987, the three oldest backfiles (MED66, MED71, and MED75) will be reconfigured into two files named MED66 and MED72. In addition, these two new files will contain citations based on Year of Publication (YR), and not *Index Medicus* year. With the size of the citations and the large number of searchable fields, these two new files represent the upper limit of the ELHILL software constraints on the size of a database. NLM also plans to evaluate MED77 through MED83 for a probable reconfiguration by Year of Publication in December 1988. As a reminder, MeSH searching in a single, massive file should be carefully thought out because a MeSH heading may have been introduced at a certain time in the past and the retrieval will not include citations on the topic when it was previously indexed under another heading.

10. We have noticed on our recent invoice that we have a credit balance. Should we send some payment anyway?

No, do not send a payment if your invoice indicates that the balance owed is zero or that there is a credit balance. Wait until the following month and, if the credit amount turns out to be insufficient to cover online charges, then only send payment for what is owed.

CANCERPROJ® (1976 - 1987)

Dianne E. Tingley, Ph.D.
Chief, ICRDB Branch, NCI

Jim Carter
Database Manager, ICRDB, NCI

The National Cancer Institute (NCI), sponsor of CANCERPROJ, has determined that as of October 1, 1987 the database will no longer be available online. Since 1976, the CANCERPROJ database has been a resource of information on current domestic and foreign cancer research projects, reaching a peak size of over 20,000 project descriptions in the early 1980's. Input was provided by the Smithsonian Science Information Exchange (SSIE) under contract to NCI, starting from a core of project descriptions derived from the SSIE's internal database of government-sponsored projects. This core was enhanced by the addition of other domestic and foreign sources of project information, and a systematic process for soliciting update information. Quarterly updating ceased in November 1981, when the SSIE was absorbed into the Department of Commerce and its special information programs terminated.

The NCI immediately initiated a new procurement to continue CANCERPROJ input and updating activities, but the new contract was delayed until April 1984. By that time most of the information in the old CANCERPROJ file was so out of date that a total rebuilding was the only reasonable course of action. From this new beginning, the now fully MeSH- and CAS Registry Number-indexed CANCERPROJ file grew to a size of over 10,000 project descriptions within two years. Unfortunately, this CANCERPROJ file was never to reach its full potential for, just as systematic updating was getting underway, budget reduction intervened. With great reluctance, the NCI decided to absorb a necessary cut by allowing the input contract to expire. A final update to CANCERPROJ was made in July 1986, and the suspension of further updating was announced in the August 1986 *NLM Technical Bulletin*. Since that time, the file has remained unchanged except for annual class maintenance to update with 1987 MeSH headings. Although Final Year information is incomplete, NCI estimates that only about 25% of the projects summarized in CANCERPROJ will still be active as of the end of September, when the file comes down.

Though hours of online usage never approached those for CANCERLIT®, there remained a small, faithful core of users who had apparently discovered the value of information on research projects in progress. There is still sentiment at NCI that such pre-publication information can be of great benefit to researchers and administrators, but there is only limited awareness of its potential within the scientific community. The International Cancer Research Data Bank Branch of NCI would be most interested in comments or suggestions concerning the usefulness and optimal presentation of project information, and will continue to study cost-effective options for its collection and delivery. Suggestions may be directed to International Cancer Research Data Bank, R.A. Bloch Building, Building 82, Room 113, Bethesda, MD 20892.

NLM Begins Copy Cataloging Program

Cataloging Section, Technical Services Division

The NLM Cataloging Section has begun using available cataloging copy from the Library of Congress (LC) and the Government Printing Office (GPO) for printed monographs being added to the NLM collection. NLM's copy cataloging program is intended to make more effective use of available cataloging resources while reducing the time lag between the receipt of a title and its announcement to NLM's onsite and network users. The copy cataloging records are being released to the CATLINE® database, published in the *NLM Current Catalog*, and are available in the CATLINE/MARC tape distribution.

NLM catalogers will not review or modify the bibliographic description or the choice of main entry and added entries, except when the LC or GPO decision on tracing a series differs from NLM's practice. NLM will trace series according to its established decision and form. Name headings and uniform titles will match the form found in the LC or GPO record. When a name form in NLM's authority file varies from that in the LC or GPO record, NLM will reconcile the name, maintain its database, or request LC to change the heading in its database.

NLM will assign its class number from the NLM classification scheme for subject areas covered by its schedule. NLM catalogers will use the LC class number from the source copy if the subject area is one for which NLM applies the LC schedules. The book number will be assigned according to NLM's application of the Cutter-Sanborn tables and rules for shelflisting.

VERSION 2.0

[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated.]

Is there any way I can request assistance from the MEDLARS Management Section other than calling the Service Desk?

You can always write to our office, but if you are using GRATEFUL MED you may want to send us an online comment.

HOW TO SEND A COMMENT TO MMS USING GRATEFUL MED

You will need to be connected directly to the NLM computer:

1. You can either: Select no. 3 "Search directly..." from the ACTION SCREEN.

or

Press the F9 key during a search, i.e., while GRATEFUL MED is interacting with the NLM computer. Note: your search will end at that point.

2. You must wait for the computer to prompt you with USER:

3.
```
SS 1 /C?
USER:
comment                          <-   ENTER THE COMMAND, COMMENT
                                      AND PRESS THE ENTER KEY.
PROG:
DOES YOUR COMMENT REQUIRE A RESPONSE FROM NLM?  (YES/NO)

USER:                                 ENTER Y FOR YES. (NOTE: IF
Y                                <-   YOU ENTER N, THE COMMENT WILL
                                      NOT BE ANSWERED.)
PROG:
NAME & TELEPHONE NUMBER:

USER:                                 INCLUDE AREA CODE AND A
martin blaise 617/555-1234       <-   DAYTIME PHONE NUMBER.

PROG:
ADDRESS?

USER:
3459 st. paul st. #6             <-   ENTER YOUR STREET ADDRESS.

PROG:
CITY, STATE (PLEASE DO NOT ABBREVIATE), AND ZIP-

USER:
harrogate, ma 029999

PROG:
CONTINUE YOUR COMMENT OR TYPE THE WORD FINISHED.

USER:
what is the mesh term for ibopamine?   <-  ENTER YOUR
                                           COMMENT.
PROG:
CONTINUE YOUR COMMENT OR TYPE THE WORD FINISHED.

USER:
finished                         <-   USE AS MANY LINES AS NEEDED,
                                      THEN TYPE, FINISHED ON A NEW
PROG:                                 LINE.  IF PERTINENT, IDENTIFY
                                      YOURSELF AS A GRATEFUL MED USER.
SS 1 /C?
USER:
stop y                           <-   ENTER STOP Y TO END THE SESSION.
```

4. GRATEFUL MED will disconnect from the computer.

5. DO YOU WANT THE INTERACTION REFORMATED (Y/N)? Answer N

6. DO YOU HAVE A PRINTER AND WANT TO PRINT (Y/N)? Answer Y if you want to keep a printed copy of your COMMENT.

NLM staff checks for online COMMENTs twice a day and will try to reach you by phone as soon as we have an answer for you. NLM cannot answer your COMMENT online; we have no electronic messaging capability back to the sender. You can mention in your COMMENT the times you can be reached. If we can't reach you by phone, we will send a response by mail.

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p.3.

NLM ONLINE USERS'MEETING, MLA ANNUAL MEETING, PORTLAND, OR, MAY 18, 1987, p.5.

Colonel Rogers: A Reminiscence

Thelma Charen
Indexer

The library world is saddened at the announcement of the death of Dr. Frank Bradway Rogers. Although he was the Director of the National Library of Medicine from 1949 to 1963 I first knew him as the Director of the Army Medical Library, later called also the Armed Forces Medical Library.

I'm one of the few people left at the Library who knew and worked with Colonel Rogers. I was at the Library during World War II at the time he was assigned here as an Army officer and before he went to library school. We first met when I was still working as a proofreader in *Index-Catalogue* Section, when I was interviewed by him about the differences in approach between Catalog Section (where I had been a preliminary cataloger) and *Index-Catalogue*.

As time went on, I grew to know him more, especially after the demise of *Index-Catalogue* and the birth of *Current List of Medical Literature*, the predecessor of *Index Medicus*. Every contact was a reward I cherish. All I know about a lot of things I owe to him and Seymour Taine who worked with him in building *Current List*.

Colonel Rogers felt that the growing *Current List*, staffed largely by a group of typist and proofreader transferrees from *Index-Catalogue*, would have to have some medical knowledge. And so for the benefit of the *Current List* staff and Reference Division he held a series of weekly lectures on all facets of medicine which we neophytes could apply to our freshly learned indexing. I still have the pack of notes I took at those lectures 37 years ago; I looked at them this morning in another connection.

I am making no grandiloquent statement of Colonel Rogers' contribution to medical bibliography for that will be done by more worthy and more important people than I. I can say that I was not devastated by the report of his death because he will always be alive in my mind. I have many many happy, pleased and pleasant thoughts to look back on and could relate anecdote after anecdote about our personal encounters. Let me tell you of two of the most haunting. I remember them because Col. Rogers acted the way I act and would want anyone to act.

During the creation of the first black-and-white MeSH in 1963, Constantine Gillespie, Stanley Jablonski, and I were asked to suggest terms to become official headings. Several times running I submitted on formal sheets of paper a request for DEMENTIA, PRESENILE and each time it was rejected by the Colonel since he felt that only DEMENTIA, SENILE was at issue. I recall submitting it a fourth time and getting back the sheet marked "I give up." We got the heading.

The second took place during our many interviews on the progress on a retooling of the Library's rules for the abbreviation of journal titles based on Billings' principles and the *World List of Scientific Periodicals*. The research we did resulted in the publication of our rules. During the work there was some question about what I considered a discrepancy in the abbreviation of "Pennsylvania": he wanted it in two different forms under what I thought was much too subtle an approach. Each time he gave a reason I countered with a logical objection. I finally asked "Why your way?" "Because I'm the Colonel", he replied. THAT I understood and liked.

I know that - with no effort at all - I am going to think back on many more stories and continue to use daily all the wonderful things about indexing I learned from him. Colonel Rogers is still alive in the Library for me.

RTECS

Continued from page 1.

a more central source for NLM's toxicologically related databanks. Further, TOXNET has no record length limitations and will therefore be able to accommodate all RTECS records in full.

Like TOXNET's other files, RTECS is arranged by chemical substance. It contains considerable chemical identity information, such as synonyms, Chemical Abstracts Service registry numbers, molecular formulas, molecular weights, and Wiswesser Line Notations. The following types of toxicity studies are summarized and referenced: skin and eye irritation, general toxicity, reproductive effects, carcinogenicity, and mutagenicity. Typical information contained for a given study would include route of exposure, species, dose, and effects observed. Toxicology and carcinogenic reviews, where available on any given chemical, are cited. Such reviews may come from the International Agency for Research of Cancer (IARC) Monograph series or may be other general review articles from the open scientific literature. Data on threshold limit values and NIOSH recommended limits are also provided. RTECS records include data on the status of the chemicals in various federal testing or reporting programs (e.g., EPA Genetox, NTP Carcinogenesis Bioassays,) as well as regulations or standards under which the chemical may fall (e.g., OSHA standards, MSHA standards).

By the time RTECS is mounted in TOXNET, it will contain some 90,000 chemical records. The detailed criteria used to select these chemicals and a full description of the significance of the test results are provided in the introductory pages of the microfiche or paper version of RTECS. Also listed therein is the standard nomenclature used for routes, species, and toxic effects.

Users accustomed to searching RTECS via ELHILL will find essentially the same data but in a more streamlined file structure. Of course, TOXNET's full range of special system characteristics will allow highly efficient searching and printing. The ability to use the SAME and PRT HITS commands should add greatly to the power of searching RTECS.

A future *NLM Technical Bulletin* article will describe the complete RTECS/TOXNET unit record, provide search hints and include examples of searching the file.

Introducing CHEMLEARN Microcomputer-Based Training for CHEMLINE

Miriam Perkins
Melvin Spann, Ph.D.
Specialized Information Services, NLM

The National Library of Medicine recently released CHEMLEARN, the first in a series of PC-based, self-instructional tools for selected MEDLARS databases. CHEMLEARN is a fully comprehensive, microcomputer-based training package for CHEMLINE (Chemical Dictionary Online) based on a mainframe computer assisted instruction program developed at the Library in 1979. It is designed to teach medical and health professionals, as well as librarians and information scientists, how to use CHEMLINE effectively. Its menu-driven structure allows the novice user to learn about the basic content and use of CHEMLINE and the skilled searcher to select instruction in the more complex aspects of the database. It may be used in place of formal training, as a precursor to or a refresher following formal training, or for review of a particular concept.

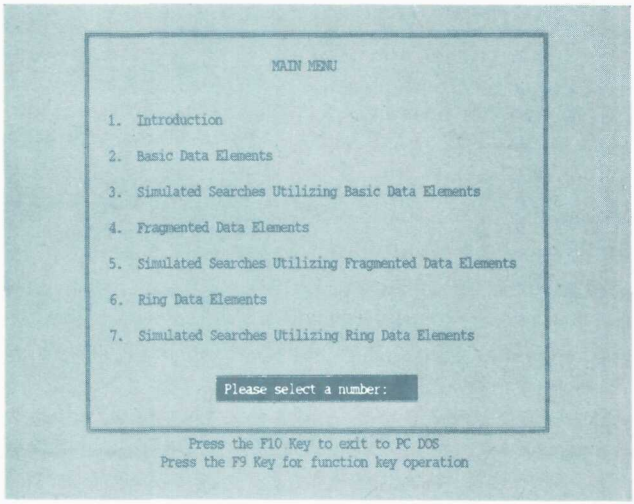
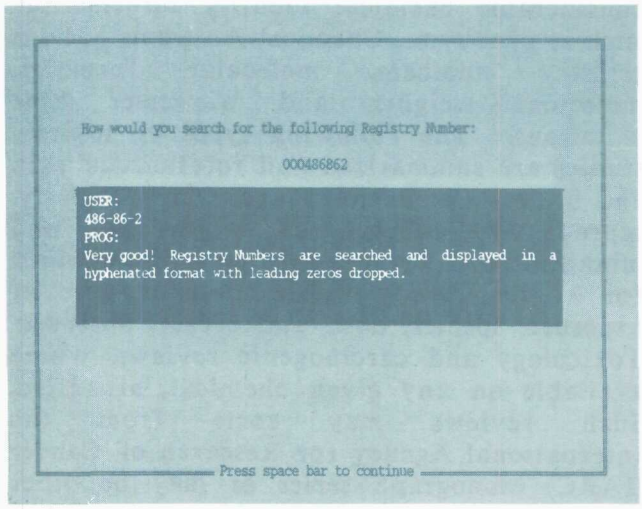


Figure 1 Main Menu

CHEMLEARN is organized into seven chapters. The introduction is presented in Chapter One. Chapters Two, Four, and Six contain discussions of the data elements in CHEMLINE, followed by multiple choice and/or fill-in-the-blank problems. Chapter Two covers the basic data elements used when searching CHEMLINE. Name and Formula fragment data elements are covered in Chapter Four and the ring data elements in Chapter Six. Chapters Three, Five, and Seven provide simulated searches which illustrate actual online sessions. The Main Menu for CHEMLEARN is given in Figure 1.



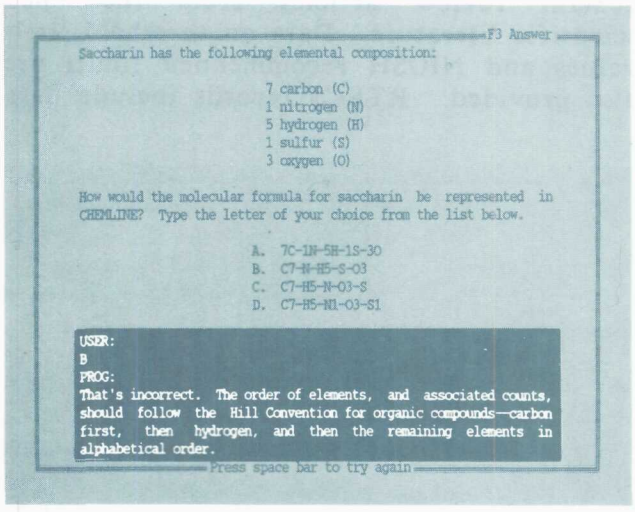


Figure 2 Registry and Molecular Formula Problems

User interactions with CHEMLEARN (problems and simulated searches) are displayed in an area of the screen designed to simulate user interactions during actual CHEMLINE sessions. Users interact with CHEMLEARN by entering a letter, word, or phrase after the USER: prompt, followed by a carriage return. CHEMLEARN responses are displayed following the PROG: prompt.

Figures 2 and 3 illustrate user-system interactions with CHEMLEARN.

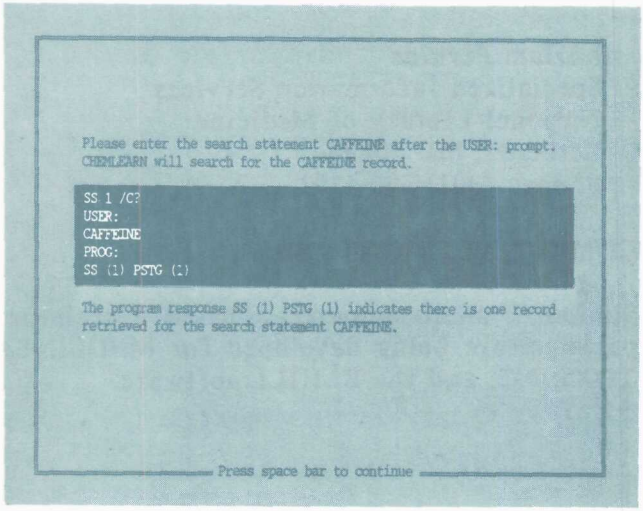


Figure 3 Caffeine Simulated Search Interaction

CHEMLEARN provides user-specific feedback for correct and incorrect answers to both multiple choice and fill-in-the-blank problems. The program responses to correct answers reinforce or summarize the concepts essential to the problem. Program responses to incorrect answers provide a brief explanation of the detected errors. The user is given unlimited attempts to answer a problem correctly, or may have the program automatically enter the answer.

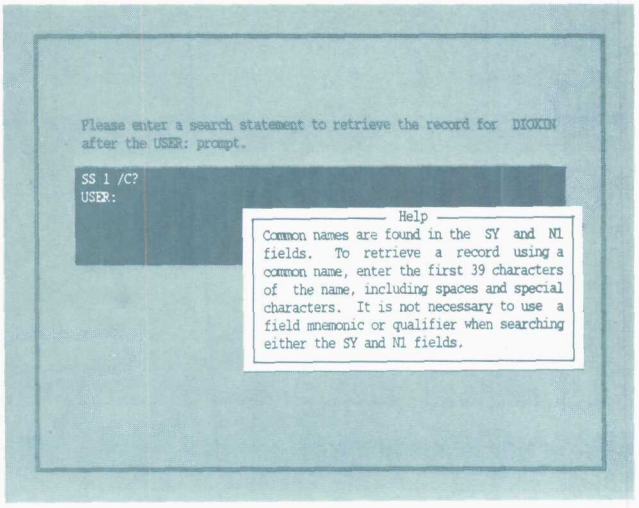


Figure 4 HELP Window

The user has the option of accessing additional information at selected points in CHEMLEARN. In the simulated search chapters, HELP windows, which provide assistance in formulating search statements and commands, are available. In chapters discussing data elements, SUMMARY windows that summarize and reinforce the material presented in the preceding discussion are available. HELP and SUMMARY windows are shown in Figures 4 and 5.

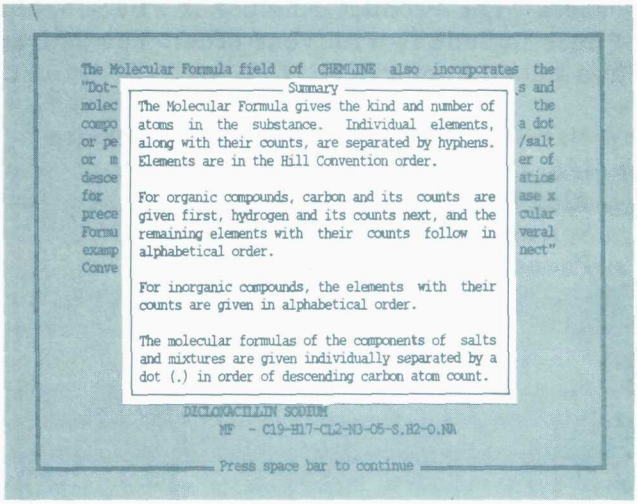


Figure 5 SUMMARY Window

Function keys are utilized to facilitate movement throughout CHEMLEARN. They allow the user to go directly to the main menu, return to the previous menu, advance to the next screen, return to the previous screen, and exit CHEMLEARN and return to PC DOS.

Several special features in CHEMLEARN are the Map, Dictionary, and tracking function. The Map serves as an index to the program, highlights sections that the user has completed, and acts as an overall menu for CHEMLEARN. The Dictionary contains definitions for the data elements, basic chemical terms, acronyms, and publications found in CHEMLEARN. The tracking function allows users to monitor their progress through CHEMLEARN in both current and subsequent sessions.

EQUIPMENT SPECIFICATIONS

CHEMLEARN is written in the PILOTplus authoring language and runs on IBM-PC, PC-XT, PC-AT and fully compatible computers. It requires 256K RAM memory, one disk drive, and DOS 2.0 or higher. It supports most monochrome, color graphics, or enhanced color graphics displays.

ORDERING INFORMATION

CHEMLEARN can be purchased from the National Technical Information Service (NTIS) in the form of two low density floppy diskettes for $25 (plus $3 handling charge per order). The Product Number is PB87-183612. Please include it with your order. The address and phone number for NTIS are:

National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22161
Phone: (703) 487-4650

Please direct any questions or comments regarding CHEMLEARN to:

Miriam Perkins
Specialized Information Services
National Library of Medicine
Bethesda, MD 20894
Phone: (301) 496-1131

COMING ATTRACTIONS

Similar microcomputer based training packages are being developed for MEDLINE, TOXLINE, and the ELHILL software.

Monthly Search Hint:

Searching Techniques for the New TOXLINE and TOXLIT Files

Susan Hawk
Jeanne Goshorn
Specialized Information Services, NLM

As described in the July 1987 issue of the *NLM Technical Bulletin*, TOXLINE has been reconfigured into a non-royalty file (retaining the name TOXLINE) and a pair of royalty files (TOXLIT and TOXLIT65). Users may well be wondering what impact this change will have on searching. The following questions and answers are intended to provide guidance in searching these files. Please call or write if there are additional questions.

Question: Does the cost differential between TOXLINE and TOXLIT have any impact on comprehensive searching?

Answer: Essentially, for a comprehensive search both TOXLINE and TOXLIT should be searched. One way to do comprehensive searching cost-effectively is to use the less expensive TOXLINE to enter and refine the search and to scan sample references. Then modify the strategy for use in TOXLIT. This will mean a reduction of the higher connect charges during the trial and error part of the search session.

If a comprehensive search of only certain data sources is desired, then use of one file may be sufficient. For example, research projects information is available on TOXLINE. The CRISP subfile describes research funded by the National Institutes of Health (NIH), and does not contain bibliographic citations. Therefore, for information on current toxicology research that may not have been published yet, search TOXLINE. For a more precise search, "AND" the strategy with CRISP (SI) to retrieve just the research projects. Incidentally, remember that NLM cannot supply research project documentation. Instead, contact the Sponsoring Agency (SA) or the investigators (AU and AD fields). New data for fiscal year 1986 have been added to TOXLINE.

Seven of the twelve TOXLINE subfiles are unavailable elsewhere for online searching. This unique information can now be searched for a much lower cost than previously. The answer to the next question addresses the uniqueness of TOXLINE subfiles in more detail.

Separation of the files in the current configuration allowed true MeSH® searching capability, with EXPLODEs and SUBS APPLY, to be made available for the TOXBIB portion of TOXLINE. TOXBIB is the part of TOXLINE that is derived from MEDLINE, so the advantage of MeSH searching is not so unusual now, but plans include making more of TOXLINE MeSH-searchable.

Question: Portions of TOXLINE are available as databases outside of NLM. Some data are unique to NLM. Please clarify which are which.

Answer: Figure 1 provides a tabular answer to the question. For each subfile, it summarizes the percentage of the parent file comprised, whether the file is unique to NLM, and whether TOXLINE/TOXLIT carries the database intact, or uses only a toxicology-related subset of the data.

Question: How can a searcher avoid doing the same search twice if information is to be retrieved from both TOXLINE and TOXLIT?

Answer: Use SAVESEARCH, an ELHILL technique especially designed to retain search formulations in the computer's memory, for later use. When SAVESEARCH is specified at the start of a search session, all search statements that follow are saved whether or not they generated postings in the file originally searched. Remember that SAVESEARCH will only execute the last search statement and those statements leading up to it. Figure 2 illustrates an example of SAVESEARCH for TOXLINE and TOXLIT.

Question: Should TOXLINE be searched with

MeSH Headings (MH) or Text Words (TW)? What about the best way to do subject searching in TOXLIT and TOXLIT65?

Answer: That depends upon at least two factors: 1. Is the search to be run in both TOXLINE and TOXLIT? 2. Is the search to be restricted to just the MEDLINE-derived portion of TOXLINE (i.e., TOXBIB)? Currently, the MeSH-indexed TOXBIB contains 76% of the citations in TOXLINE. By using MeSH only, retrieval is limited to this subfile, omitting the eleven others. Another approach might be to use both MeSH and Text Words in an initial TOXLINE SAVESEARCH formulation,"ORing" them together. While MeSH only appears in TOXBIB, no harm is done in using these extra search terms in a search of the full TOXLINE file or in searching TOXLIT with SAVESEARCH. In cases where MeSH terms are not part of the record, they will not yield any postings while the Text Word portion of the strategy will be relied upon to retrieve records.

Another way to search is to use Text Words alone. If the search is to run in both TOXLINE and TOXLIT, remember that only Text Words will retrieve citations in TOXLIT. Because MeSH headings in TOXLINE are also "textracted," that is they appear as Text Words as well as MeSH headings, some search strategies will lend themselves to using Text Words only.

Question: While TOXLINE's comprehensive coverage of the literature of toxicology is appreciated, sometimes the searcher simply retrieves too much. How can a search be limited when needed?

Answer: The TOXLINE chapter of the *Online Services Reference Manual, 1986* section 12.6.3, discusses five ways to limit retrieval. Probably year and language are the most helpful. Ranging on Year or Publication (YR) or ANDing selected years with the retrieval set is a good way to limit retrieval, particularly in TOXLINE where there are over twenty years' worth of citations. Limiting to English-language publications with the "AND NOT FOR (LA)" strategy also will reduce retrieval.

Subfile Acronym	Percentage of File	Unique?	Subset?
TOXLINE (non-royalty)			
TOXBIB	76%	N	Y
NTIS	5%	N	Y
EMIC	6%	Y	N
ETIC	5%	Y	N
NIOSHTIC	5%	N	Y
PESTAB/HAPAB	4%	Y	N
CIS	1%	N	Y
EPIDEM	1%	Y	N
CRISP	.5%	N	Y
ANEUPL	.4%	Y	N
HMTC	.4%	Y	N
PPBIB	.3%	Y	N
TOXLIT (royalty)			
CA	76%	N	Y
BIOSIS/HEEP	17%	N	Y
IPA	7%	N	Y
TOXLIT65 (royalty)			
CA	76%	N	Y
BIOSIS/HEEP	15%	N	Y
IPA	9%	N	Y

Figure 1

```
SS 1 /C?
USER:
file toxline
PROG:
YOU ARE NOW CONNECTED TO THE TOXLINE (1965 FORWARD, NON-ROYALTY) FILE.

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

*STS* SS 1 /C?
USER:
(tw) nickel or 7440-02-0 (rn)
PROG:
SS (1) PSTG (2773)

*STS* SS 2 /C?
USER:
(tw) dermatitis
PROG:
SS (2) PSTG (13117)

*STS* SS 3 /C?
USER:
1 and 2
PROG:
SS (3) PSTG (582)

*STS* SS 4 /C?
USER:
finished
PROG:
SEARCHNAME?

USER:
nick derm
PROG:
SEARCH SET FROM SS 1 FORWARD SAVED AS 'NICK DERM'.
SAVESEARCH COMPLETED.

SS 4 /C?
USER:
prt ar offline 100

. . .

OFF-LINE-PRINT COMPLETED.

SS 4 /C?
USER:
show cost
PROG:
THE ESTIMATED TOTAL ONLINE COST FOR THIS 1 MINUTE TOXLINE SESSION IS $
0.49.

SS 4 /C?
USER:
file toxlit
PROG:
YOU ARE NOW CONNECTED TO THE TOXLIT (1981 FORWARD, ROYALTY) FILE.

SS 1 /C?
USER:
(sn) nick derm
PROG:
SS (1) PSTG (106)

SS 2 /C?
USER:
prt ar offline

. . .

OFF-LINE-PRINT COMPLETED.

SS 2 /C?
USER:
show cost
PROG:
THE ESTIMATED TOTAL ONLINE COST FOR THIS 1 MINUTE TOXLIT SESSION IS $
0.90.
```

Figure 2

Serials Update

INDEXED TITLES UPDATE, AUGUST 1987

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, JULY 1987

HLI AMERICAN JOURNAL OF HEALTH PROMOTION
AM J HEALTH PROMOT
1N1,1986--
MICHAEL P. ODONNELL
ROYAL OAK MI UNITED STATES
INDEXING BEGAN WITH V1N1,1986.
W1 AM452HF 0890-1171
SR0057415 JC: AMJ

INI CHRISTIAN NURSE INTERNATIONAL
CHRIST NURSE INT
1,1985?--
NURSES CHRISTIAN FELLOWSHIP INTERNATIONAL
LONDON ENGLAND
THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING BEGAN WITH V3N1,1987.
ANA
SR0060463 JC: CNI
NURSES CHRISTIAN FELLOWSHIP INTERNATIONAL,42 STATION RD.,PENGE,LONDON SE20 7BJ ENGLAND

INI CLINICAL NURSE SPECIALIST
CLIN NURSE SPEC
1N1,SPRING 1987--
WILLIAMS AND WILKINS
BALTIMORE UNITED STATES
INDEXING BEGAN WITH V1N1,SPRING 1987.
W1 CL739D 0887-6274
SR0057381 JC: CLL

HLI HOSPITAL ENTREPRENEURS NEWSLETTER
HOSP ENTREP NEWSL
1N1,JAN 1985--
ASPEN SYSTEMS CORP
ROCKVILLE MD UNITED STATES
INDEXING BEGAN WITH V3N1,JUN 1987.
ON ORDER 8756-7253
SR0055222 JC: HNE

INI JOURNAL OF PEDIATRIC HEALTH CARE
J PEDIATR HEALTH CARE
1N1,JAN-FEB 1987--
MOSBY
ST LOUIS UNITED STATES
OFFICIAL PUBLICATION OF THE NATIONAL ASSOCIATION OF PEDIATRIC NURSE ASSOCIATES AND PRACTITIONERS.
INDEXING BEGAN WITH V1N3 MAY-JUN,1987.
IN PROCESS 0891-5245
SR0058600 JC: JML
C.V. MOSBY COMPANY,11830 WESTLINE INDUSTRIAL DRIVE,ST. LOUIS,MO 63146

IDL REVUE FRANCAISE D ENDODONTIE
REV FR ENDOD
1,1982?--
ED CDP
PARIS FRANCE
INDEXING BEGAN WITH V5N1,1986.
W1 RE848P
SR0050271 JC: RFE

INI SCHOLARLY INQUIRY FOR NURSING PRACTICE
SCH INQ NURS PRACT
1N1,SPRING 1987--
SPRINGER
NEW YORK UNITED STATES
INDEXING BEGAN WITH V1N1,SPRING 1987.
W1 SC228 0889-7182
SR0054836 JC: SIN

TITLE CHANGES, JULY 1987

IM ACTA ONCOLOGICA
ACTA ONCOL
26,1987--
SOCIETIES OF MEDICAL RADIOLOGY IN DENMARK, FINLAND, NORWAY AND SWEDEN
STOCKHOLM SWEDEN
CONTINUES: ACTA RADIOLOGICA. ONCOLOGY.
W1 AC877CK
SR0060428 JC: AON

IM CRITICAL REVIEWS IN NEUROBIOLOGY
CRIT REV NEUROBIOL
3N1,1987--
CRC PRESS
BOCA RATON FL UNITED STATES
CONTINUES: CRC CRITICAL REVIEWS IN CRITICAL NEUROBIOLOGY.
IN PROCESS 0892-0915
SR0060433 JC: CRR

IM FASEB JOURNAL
FASEB J
1N1,JUL 1987--
FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY
BETHESDA MD UNITED STATES
CONTINUES: FEDERATION PROCEEDINGS.
IN PROCESS 0892-6638
SR0059554 JC: FAS

IM FREE RADICAL BIOLOGY AND MEDICINE
FREE RADIC BIOL MED
1987--
PERGAMON PRESS
NEW YORK UNITED STATES
MERGER OF: ADVANCES IN FREE RADICAL BIOLOGY AND MEDICINE; AND: JOURNAL OF FREE RADICALS IN BIOLOGY AND MEDICINE.
W1 FR598 0891-5849
SR0059308 JC: FRE

IM IMMUNOPHARMACOLOGY AND IMMUNOTOXICOLOGY
IMMUNOPHARMACOL IMMUNOTOXICOL
9,1987--
MARCEL DEKKER
NEW YORK UNITED STATES
CONTINUES: JOURNAL OF IMMUNOPHARMACOLOGY.
ON ORDER 0892-3973
SR0060404 JC: IAI

HLI JOURNAL OF AMBULATORY CARE MARKETING
J AMBUL CARE MARK
1N1,SPRING/SUMMER 1987--
HAWORTH PRESS
NEW YORK UNITED STATES
CONTINUES: EMERGENCY HEALTH SERVICES REVIEW.
IN PROCESS 0886-9723
SR0058286 JC: JAN

IM MEDICAL TOXICOLOGY AND ADVERSE DRUG EXPERIENCE
MED TOXICOL ADVERSE DRUG EXP
2N1,JAN-FEB 1987--
ADIS PRESS
AUCKLAND NEW ZEALAND
CONTINUES: MEDICAL TOXICOLOGY.
W1 ME52767
SR0060528 JC: MTD

IM METABOLIC, PEDIATRIC AND SYSTEMIC OPHTHALMOLOGY
METAB PEDIATR SYST OPHTHALMOL
V8N2--
OPTO ED
NEW YORK UNITED STATES
CONTINUES: METABOLIC OPHTHALMOLOGY.
OFFICIAL PUBLICATION OF THE INTERNATIONAL SOCIETY ON METABOLIC EYE DISEASE, THE INTERNATIONAL SOCIETY OF PEDIATRIC OPHTHALMOLOGY, AND THE WORLD SOCIETY ON SYSTEMIC OPHTHALMOLOGY.
ON ORDER 0882-889X
SR0060403 JC: MPS

IM NEUROTOXICOLOGY AND TERATOLOGY
NEUROTOXICOL TERATOL
9N1,JAN/FEB 1987--
PERGAMON PRESS
NEW YORK UNITED STATES
CONTINUES: NEUROBEHAVIORAL TOXICOLOGY AND TERATOLOGY.
IN PROCESS 0892-0362
SR0060224 JC: NAT

HLI NURSING HOMES AND SENIOR CITIZEN CARE
NURS HOMES SR CITIZ CARE
35N6,1986--
CENTUAR
POTOMAC MD UNITED STATES
CONTINUES: NURSING HOMES.
IN PROCESS
SR0060499 JC: NCC

IM OBSTETRICS AND GYNECOLOGY CLINICS OF NORTH AMERICA
OBSTET GYNECOL CLIN NORTH AM
14,1987--
W.B. SAUNDERS
LONDON ENGLAND
CONTINUES: CLINICS IN OBSTETRICS AND GYNAECOLOGY.
IN PROCESS 0889-8545
SR0058379 JC: OGC

IM RESEARCH IN DEVELOPMENTAL DISABILITIES
RES DEV DISABIL
8N1,1987--
PERGAMON PRESS
ELMSFORD NY UNITED STATES
MERGER OF: APPLIED RESEARCH IN MENTAL RETARDATION; AND, ANALYSIS AND INTERVENTION IN DEVELOPMENTAL DISABILITIES.
IN PROCESS
SR0060495 JC: RID

TITLES NO LONGER INDEXED AS OF JULY 1987

HLI BUSINESS INSURANCE
BUS INSUR
1,1967--
CRAIN COMMUNICATIONS
CHICAGO UNITED STATES
THIS TITLE IS NOT IN THE NLM COLLECTION.
INDEXING CEASED WITH V20N52,DEC 30 1986.
AHA 0007-6864
B58960000 JC: B9A

HLI EMPLOYEE BENEFIT PLAN REVIEW
EMPLOYEE BENEFIT PLAN REV
1,1946--
C.D. SPENCER AND ASSOCIATES
CHICAGO UNITED STATES
INDEXING CEASED WITH V41N12,JUN 1987.
W1 EM696P 0013-6808
E06240000 JC: EE8

HLI HEALTH AND MEDICINE
HEALTH MED
1N1,WINTER 1982-4N1,SPRING 1987
HEALTH AND MEDICINE POLICY RESEARCH GROUP
CHICAGO UNITED STATES
BOTH 1986 WINTER AND 1987 SPRING ISSUES
NUMBERED V4N1.
INDEXING BEGAN WITH V1N1,WINTER 1982.
W1 HE414F 0741-2339
H06575000 JC: GAH

IM HUMAN NEUROBIOLOGY
HUM NEUROBIOL
1N1,MAR 1982-6,1987
SPRINGER VERLAG
BERLIN GERMANY, WEST
INDEXING BEGAN WITH V1N1,1982.
W1 HU448S 0721-9075
H22325000 JC: G9X

IDL ZAHNARZT
ZAHNARZT
12,1968-30,1986
SCHRIFTTUM
MUNCHEN GERMANY, WEST
CONTINUES: KASSENZAHNARZT. ABSORBED BY:
ZWR.
W1 ZA51 0044-1678
Z00090000 JC: Y42

*U.S. G.P.O. 1987-181-305:60006

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(U.S. users only)

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New Administrative/NLM Technical Bulletin Address:

Name: _____

_____

_____

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_____

Telephone: _____

New Billing Address:

Name: _____

_____

_____

_____

_____

Telephone: _____

_____
Signature

_____
Printed Name

_____
Date

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National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

ISSN 0146-3055
SEPTEMBER 1987

No. 221

GRATEFUL MED Users
See page 8

The NLM Technical Bulletin

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NLM TRAINING PROGRAM CHANGES

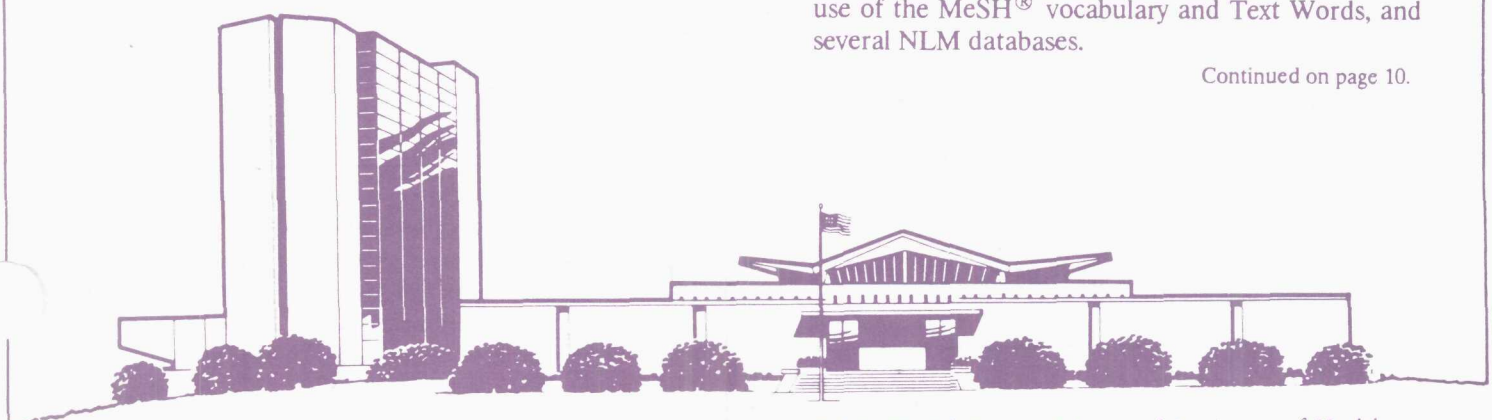
Patricia C. Buchan
MEDLARS Management Section, NLM

With the release of the 1988 Training Class schedule (see page 13), NLM is announcing a number of changes/additions to the Online Services Training Program. Each of these will be discussed within the context of the specific training class.

I. INITIAL ONLINE SERVICES TRAINING CLASS - NEW NAME

Since NLM began training searchers, the introductory level class has been called "Initial Training." Beginning with the January 1988 class offerings, this name has been changed to the "Fundamentals of MEDLARS® Searching." This title was chosen over the former generic one to describe the class as search training on the NLM system. Currently, the "Fundamentals" will continue to be a 5-day class consisting of three modules designed to introduce online searchers to basic MEDLARS search techniques, system capabilities, use of the MeSH® vocabulary and Text Words, and several NLM databases.

Continued on page 10.



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • National Institutes of Health
National Library of Medicine

MEDLARS DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL COMPUTER				
AVLINE	16,290	THROUGH 1987	18 SEP 87	
BIOETHICS	23,202	JAN 73-1987	13 AUG 87	8708(EM)
CANCERLIT	606,758	JAN 63-SEP 87	05 SEP 87	8709(EM)
CANCERPROJ	10,183	THROUGH 1986	05 JUL 86	8607(EM)
CATLINE	620,784	THROUGH 1987	18 SEP 87	
CHEMLINE	764,813		02 SEP 87	8708(EM)
CLINPROT	6,237		19 SEP 87	8709(EM)
DIRLINE	15,629		22 SEP 87	
HEALTH	391,184	JAN 75-OCT 87	12 SEP 87	8710(EM)
HISTLINE	79,046		12 SEP 87	8709(EM)
MEDLINE	737,513	JAN 85-OCT 87	05 SEP 87	8710(EM)
MED83	584,231	JAN 83-DEC 84	29 AUG 87	
MED80	804,712	JAN 80-DEC 82	05 SEP 87	
MED77	774,934	JAN 77-DEC 79	08 AUG 87	
MED75	642,573	JAN 75-DEC 76	16 MAY 87	
MED71	882,889	JAN 71-DEC 74	05 JUN 87	
MED66	954,329	JAN 66-DEC 70	15 JUN 87	
MESH VOC	61,981	1987	18 SEP 87	
NAME AUTH	288,681		19 SEP 87	
PDQ			03 SEP 87	
POPLINE	153,900	1970-SEP 87	17 SEP 87	8709(EM)
RTECS	90,474	THROUGH JUL 87	27 AUG 87	
SDILINE	28,396	OCT 87	27 AUG 87	8710(EM)
SERLINE	69,427	1987	17 SEP 87	
TOXLINE	832,691	PRE-1965-1987	19 SEP 87	8709(EM)
TOXLIT	741,350	1981-1987	19 SEP 87	8709(EM)
TOXLIT65	771,593	1965-1980	01 AUG 87	
TOXNET COMPUTER				
CCRIS	1,165		28 APR 87	
HSDB	4,151		08 SEP 87	

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Editor: Kathleen Stenger
Assistant Editor: Annette Morris
Technical Notes Editor: Joyce A. Conner
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Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 that is considered most relevant to the item being discussed, e.g., (Manual 4.7.2). Users should keep in mind that the item may pertain to other sections as well.

VETERANS DAY HOLIDAY SCHEDULE

The NLM computer will be up and operational on a guaranteed basis on Wednesday, November 11, 1987, Veterans Day. Non-prime rates will be in effect all day. The MEDLARS Management Service Desk will not be staffed. DOCLINE® will be available on Wednesday, November 11, but the DOCLINE Service Desk will not be staffed. The TOXNET® computer system status is always guaranteed with non-prime rates in effect on all holidays. Please see the October 1986, *NLM Technical Bulletin*, Appendix C, for the complete 1987 holiday schedule.

CRISP (RPROJ) SUBFILE OF TOXLINE®

(Manual 12.5.10)

As part of the August 1 TOXLINE regeneration, 1983 - 1985 data was removed from the CRISP subfile (formerly RPROJ) and replaced with project descriptions current for fiscal year 1986 (Oct. 85 - Sept. 86). Since this subfile contains reports of research projects in progress, older records for projects which are completed are not very useful. Rather, current information on these past projects can usually be found in the published literature. Next year, these 1986 records will be retained and fiscal year 1987 projects will be added.

TOXNET ENHANCEMENTS

A number of enhancements have been made to the TOXNET system. Descriptions can also be found in the TOXNET online NEWS.

Offline Prints - Display of Search Summary

(Manual 25.5.16, 25.6.1)

The parameter, TITLEPAGE, has been automatically added to users' stored PROFILE and set to the value EXPANDED. This means searchers will receive a copy of their search strategy on the title page of their TOXNET offline prints. Users who elect to have strategies omitted from offline prints will want to use the PROFILE MODIFY TITLEPAGE command and choose the compact option.

Display of Sources - New Options

(Manual 25.6.1)

The SOURCE parameter has also been added to the stored PROFILE. This has been set to the value DEFAULT which means any PRT INDENTED command will display the full source reference while all other PRT commands display an abbreviated reference. Users may choose always to see the abbreviated reference by modifying the SOURCE parameter to ABBREVIATED. Alternatively, this parameter may be set to EXPANDED to always see the full source reference. Changes may be made by entering PROFILE MODIFY SOURCE. This feature operates only in conjunction with the HSDB® file.

Changes in Display of Time and Date

(Manual 25.9.8)

The "TIME command will now result in the online display of both the U.S. Eastern Time and date. Also, both the time and date now automatically display after login.

Line Continuation of Search Statements

(Manual 25.4.9)

Line continuation is now available on TOXNET. A lengthy search statement can be entered using multiple lines as long as each wrapping line ends with a Boolean operator (AND, OR, AND NOT). Users will then be prompted to continue the search statement.

Display Command

(Manual 25.9.2)

The DISPLAY command, which provides an online summary of preceding search statements, has been reformatted for clarity. The DISPLAY is provided in a format similar to the offline print title page display (described above).

Truncation Limit Raised

(Manual 25.4.8)

The entry of a search term truncated with a colon (:) will now result in a display of postings of up to 20 terms

beginning with the root term. The limit had previously been 10 terms.

Display of Registry Number (RN)
(Manual 25.5)
The RN data field will now automatically be displayed with all PRINT commands unless specificlly excluded as in PRT ___ EXCLUDE RN or PRT ONLY ___.

PRICING SCHEDULE, EFFECTIVE OCTOBER 1

The complete domestic and foreign pricing schedule for MEDLARS services is included with this issue as Appendix A.

MESH TOOLS 1988

The following 1988 MeSH tools may now be ordered from the National Technical Information Service (NTIS) for immediate delivery.

Medical Subject Headings--
Annotated Alphabetic List, 1988
PB87-214235/GBB
$25.50, U.S. and Canada
($51.00 foreign);
microfiche, $13.50 ($27 foreign)

Medical Subject Headings--
Tree Structures, 1988
PB87-214243/GBB
$20.50, U.S. and Canada
($41.00 foreign);
microfiche, $6.50 ($13 foreign)

Permuted Medical Subject Headings, 1988
PB87-214250/GBB
$20.50, U.S. and Canada
($41 foreign);
microfiche, $6.50 ($13 foreign)

Orders should be sent to:

National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, Virginia 22161
703/487-4650

(for phone orders from individuals/organizations with an NTIS deposit account or major credit card)

Remittance should be sent with all mail orders. Remember to add $3.00 ($4.00 non-U.S.) shipping/handling charge per order, not per item ordered.

UPDATES TO THE LIST OF NLM'S REGISTERED NAMES AND TRADEMARKS

Please add the following updates to the list of NLM databases and services that are officially registered as trademarks with the U.S. Patent and Trademark Office or that are currently protected while trademark rights are being claimed.

RTECS® [registered by NIOSH]
MeSH ®

MISSING ONLINE SERVICES REFERENCE MANUAL PAGES

Section 7.4.2 of the *Online Services Reference Manual* was inadvertently deleted in printing. The page includes parts of Section 7.4.1 and continues on the page that includes 7.4.3. Copies of these pages are found in the Attachment. Users should check their copies of the *Online Services Reference Manual* and insert these pages if necessary.

Please access **FILE INFORM** *and type* **NEWS** *to see the most recent news items online!*

NLM Student Code Program

The National Library of Medicine is pleased to announce a new Student Code Program, designed to make it possible for an increased number of students to access and search most of NLM's databases at reduced rates. Students enrolled in a wide range of educational programs, high school through professional residencies in the United States, are eligible. Two types of student programs are offered:

1) A student who is enrolled in graduate or professional school or in a residency program may apply for an Individual Student Code. This code will be active for two years and the student is responsible for all charges incurred. At the end of two years the code will be converted to regular billing.

2) Institutional Student Codes may be obtained by educational institutions from high school through university level and for hospitals providing residency programs. Institutions may request one or more codes to be used by one or more students. The name and educational level of each student using a code is requested. Institutional Student Codes are effective for one year but may be renewed by the institution. An institution may provide an Institutional Student Code to an individual for as long as the individual is a student at the institution. Institutions may set a limit on the number of hours their codes may be used.

Student Codes are billed at approximately 50% of the regular prime time and non-prime time NLM MEDLARS online charges. (For MEDLINE® student use, this will be approximately $12.00 per hour prime time and $8.00 per hour non-prime time.) Offline prints are billed at the regular rates. Royalty charges for CHEMLINE®, TOXLIT, and TOXLIT65 apply.

TOXNET databanks, PDQ® and MEDLEARN® are not searchable with the Institutional Student Codes but may be searched using the Individual Student Codes. This is because code usage limits can presently be set only for ELHILL® databases. NLM is working towards offering access to all MEDLARS systems/databases in the future. Individual student codes can access any system/database because they are not subject to usage limits. All students may use their codes with the GRATEFUL MED™ software.

Schools currently participating in NLM's Educational Code Program will be transferred to the Student Code Program. Individual students who already have their own access codes should contact NLM (see below) to obtain the forms necessary to switch from regular billing to reduced billing for two years. The code concerned must be identified to NLM when the paperwork is returned.

Students and institutions interested in applying for this program should request a Student Code Application from: MEDLARS Management Section, National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894. Phone: M-F, 8:30 a.m. - 5:00 p.m. ET at (800) 638-8480 (outside Maryland) or (301) 496-6193.

MEDLINE SURVEY ANNOUNCED

NLM is conducting a survey of individuals (physicians, researchers, etc.) who search MEDLINE on the NLM computer without the aid of a search intermediary. A questionnaire will be mailed to these individuals to obtain more detailed information on this growing user population. NLM is interested in learning how these individuals use MEDLINE, their level of satisfaction with the system, and their views on how it can be improved. Questionnaires will be mailed in late September.

NIOSHTIC Records Added to TOXLINE

Jeanne C. Goshorn
Chief, Biological Information Services Section, SIS

A new subfile comprised of that portion of the NIOSHTIC file created by NIOSH from January 1984 through June 1987 was added to TOXLINE with the first post-regeneration update on August 30, 1987. This subfile, which has a subfile acronym of "NIOSH" in the Secondary Source Identification (SI) field, contains 38,457 references on occupational health and safety gathered by the National Institute for Occupational Safety and Health (NIOSH) and added to their NIOSHTIC (NIOSH Technical Information Center) database since January of 1984. Coverage of the subfile includes over 150 current journals in health and safety and related subject areas, selected NIOSH publications, and some references gathered in the creation of NIOSH documents. Quarterly updates of about 3,000 records are anticipated. Subjects covered by the new subfile come from a wide area related to occupational safety and health, such as behavioral sciences, epidemiology, hazardous wastes, occupational medicine, safety and health programs, and many aspects of toxicology.

A sample record from the NIOSHTIC information on TOXLINE is shown in Figure 1. The NIOSHTIC number for a reference is carried in the TOXLINE SI field following the subfile acronym "NIOSH", with a slash separating the acronym from the number. NIOSH's internal document control number is carried as the firstTOXLINE Keyword (KW), following "DCN-". Additional keywords may include subject terms used by NIOSH in indexing the document, an NTIS or CIS accession number, if present, and additional special indexing terms used for NIOSH documents such as Health Hazard Evaluations or technical reports.

```
SS 1 /C?
USER:
(SI) niosh/00167580
PROG:
SS (1) PSTG (1)

SS 2 /C?
USER:
prt dl
PROG:

1
SI  - NIOSH/00167580
AU  - Edling C
AU  - Jarvholm B
AU  - Andersson L
AU  - Axelson 0
TI  - Mortality and Cancer Incidence Among Workers in an
      Abrasive Manufacturing Industry
SO  - British Journal of Industrial Medicine, Vol. 44, No.
      1, pages 57-59, 4 references, 1987
CD  - BJIMAG
AB  - A survey of mortality and cancer incidence among workers
      in an abrasive manufacturing industry (SIC-3291) was
      conducted.  The cohort consisted of 521 males employed
      for at least 5 years between 1955 and 1983 at a
      Swedish facility that manufactured grinding wheels
      using aluminum-oxide (1344281) and silicon-carbide
      (409212). Some grinding wheels were bound by
      formaldehyde (50000) containing resins.  Vital status
      of the cohort as of December 31, 1983, was determined.
      Underlying causes of death were determined from the
      National Death Register and National Cancer Registry.
      Expected incidences were calculated using incidence
      rates for the general Swedish population.  Company
      industries ranged from 0.1 to 1.0mg/m3; however,
      intermittent heavy exposures to formaldehyde, up to 20
      to 30mg/m3, short occurred.  No significant increases
      in total mortality, cancer mortality, or incidence of
      nonmalignant respiratory disease was found. There was
      no association between degree of exposure to
      formaldehyde and cancer.  One case of nasopharyngeal
      cancer occurred; however, it was associated with a low
      exposure, less than 0.1mg/m3, to formaldehyde for a
      relatively short time, around 5 years.  The authors
      conclude that the study shows no evidence for an
      increased mortality or cancer morbidity associated
      with manufacturing abrasives.
KW  - DCN-153986
KW  - Epidemiology
KW  - Mortality surveys
KW  - Occupational exposure
KW  - Malignant neoplasms
KW  - Airborne dusts
KW  - Aldehydes
KW  - Industrial factory workers
KW  - Mortality rates
RN  - 1344-28-1; 409-21-2; 50-00-0
EM  - 8708
```

Figure 1

VERSION 2.0

[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated.]

At our institution, we have multiple GRATEFUL MED users, so being able to designate a file to hold search results can be a real plus. However, if we transfer the search results to a file and use the asterisk option to bypass making relevancy judgments, is there any way to use GRATEFUL MED to edit and print those results at a later time?

When you use the transfer capability to move your citations to another file, the citations are reformatted and cannot be reviewed individually for relevancy at a later time. You can, however, copy the results of your search from a file named OUTPUT before they are reformatted and then recopy them into the OUTPUT file later to screen for relevancy.

The instructions for copying your results before they are reformatted are found in Part 3 of the *User's Guide*, pages 59-61 "Saving OUTPUT Files for Later Use," and "Managing Backfile (older material) Retrieval."

After I have downloaded citations, how can I edit within citations or rearrange the order of the parts of the citation, e.g., author, journal source, etc.?

You cannot "rearrange" a citation using GRATEFUL MED; however, you can copy your downloaded files into a text editing or text management type of software designed to do that. This is another instance where you may want to copy the citations before GRATEFUL MED reformats them, in which case you should also review the instructions in Part 3, pages 59-61. It is usually easier to manipulate data if it resides in a tagged format labelled by data element abbreviations rather than a paragraph format. (See Figure 1.)

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p.3.

This record is an example of a REFORMATTED citation:

Suita S; Ikeda K; Doki T; Naito K; and others
Zinc status and its relations to growth retardation in children with biliary atresia.
J Pediatr Surg 1987 May;22(5):401-5
Unique Identifier: MEDLINE 87225535

Medical Subject Headings:

Biliary Atresia--COMPLICATIONS--METABOLISM--SURGERY
Body Height
Body Weight
Child
Child, Preschool
Female
Growth Disorders--ETIOLOGY
Human
Infant
Infant, Newborn
Male
Parenteral Hyperalimentation
Serum Albumin--ANALYSIS
Zinc--METABOLISM

This is same citation from the OUTPUT file:

```
UI  - 87225535
AU  - Suita S
AU  - Ikeda K
AU  - Doki T
AU  - Naito K
AU  - Handa N
AU  - Matsuo S
AU  - Ohgami H
TI  - Zinc status and its relations to growth retardation in children
      with biliary atresia.
MH  - Biliary Atresia/COMPLICATIONS/*METABOLISM/SURGERY
MH  - Body Height
MH  - Body Weight
MH  - Child
MH  - Child, Preschool
MH  - Female
MH  - Growth Disorders/*ETIOLOGY
MH  - Human
MH  - Infant
MH  - Infant, Newborn
MH  - Male
MH  - Parenteral Hyperalimentation
MH  - Serum Albumin/ANALYSIS
MH  - Zinc/*METABOLISM
LA  - Eng
SO  - J Pediatr Surg 1987 May;22(5):401-5
```

Note: the OUTPUT and OUTPUTF files contain the entire interaction: login steps, system commands, as well as citations.

Figure 1

Training Program Changes
Continued from page 1.

II. ADVANCED ONLINE SERVICES TRAINING CLASS - NEW NAME, REVISED CURRICULUM

A number of changes are taking place with the Advanced Online Services Training Class. The first is a change in title to reflect more accurately the content of the course. The new title is the "Follow-Up to the Fundamentals of MEDLARS Searching," or the "Follow-Up" as the shortened version. In the past, the Advanced Online Training was somewhat of a misnomer. This was because no previous basic instruction had been provided in the Initial Class for many of the databases covered. Therefore, it was misleading to tag these modules as "advanced" techniques.

Beginning in 1988, the "Follow-Up" classes will be taught by NLM instructors in Bethesda and also by the trainers at the three Regional Medical Library Online Training Centers (New York Academy of Medicine, University of Nebraska, and University of California at Los Angeles) in each of the seven regions. The number of classes has been increased to include nine classes at sites other than the five at NLM.

Perhaps the most significant change to this class is the revision of the course content agenda. The new class will consist of six modules, each with hands-on exercises. They are as follows:

A. Module 1 - Enhanced Skills in Searching MEDLINE/MeSH/HEALTH

This one-day module will begin by providing a refresher of the technical ELHILL commands focusing on the MEDLINE database. Advanced skills in searching MEDLINE will be presented as well as a discussion of the HEALTH PLANNING AND ADMINISTRATION File. The MeSH Vocabulary File will be discussed in detail providing an insight as to its usefulness in MEDLINE searching. Hands-on exercises will accompany each lecture of every module.

B. Module 2 - Cancer Information Searching

This half-day module will cover all aspects of searching the cancer databases, CANCERLIT® and CLINPROT®, as well as the PDQ system.

C. Module 3 - POPLINE /BIOETHICS /HISTLINE® Searching

Information on these specialized databases will be presented. This module will occupy a three-hour time slot.

D. Module 4 - Searching the Technical Services Databases

During this day-long module, all of the techniques necessary to effectively search the CATLINE®, NAF®, AVLINE®, and SERLINE® databases will be presented.

E. Module 5 - Enhanced Skills in Searching CHEMLINE/TOXLINE/TOXLIT

Information and advanced techniques of searching the chemical and toxicological databases on the ELHILL system will be presented in this one-day module.

F. Module 6 - Tips and Techniques for TOXNET Searching

During this one-day session, a comprehensive discussion will be held on the CCRIS® , HSDB, and RTECS databases to inform searchers about the special features available through TOXNET.

As before, the modular approach allows searchers to choose the topics which are most applicable to their needs. One or more of the six modules may be taken, but all require previous training and/or searching on the MEDLARS databases.

The six modules of the "Follow-Up" class will be taught during fourteen week-long sessions in 1988. In addition, by request, these modules can be taught as discrete workshops by the Online Trainers from the three RML Online Training Centers. If an organization or group is interested in sponsoring a local offering of one or more of the "Follow-Up" modules, a representative of the group should contact the Online Training Center at the Regional Medical Library serving that geographic area. Information about charges, scheduling, and availability can be provided by the Regional Online Trainers.

III. BACK TO THE FUNDAMENTALS: A SEARCH WORKSHOP

In 1988 a new class entitled, "Back to the Fundamentals: A Search Workshop," will be designed and presented by the Regional Medical Library Online Trainers. This

Search Workshop is intended to inform search analysts of the highlights of new ELHILL search techniques, commands, MeSH vocabulary changes, etc., as well as provide "refresher" information for those searchers who have been previously trained or who have acquired experience simply by searching the MEDLARS databases. A basic understanding of ELHILL will be required before attending "Back to the Fundamentals." The Search Workshop will last approximately four hours and will be taught at sites determined by the Regional Online Trainers in conjunction with NLM. The schedule of Search Workshops will be published in the *NLM Technical Bulletin* as soon as it is available. Unlike the "Fundamentals of MEDLARS Searching" and the "Follow-up," a fee (still to be determined) will be charged for attendance at the Search Workshop.

It is anticipated that such a class will provide a much needed forum for MEDLARS searchers to meet and discuss online searching of the NLM databases. The intent is to design a standard, structured curriculum which would be taught throughout the country and revised each year. Medical Library Association (MLA) Continuing Education Credit will be available for Search Workshop attendees. Further details on this new Search Workshop will be made available in future issues of the *NLM Technical Bulletin*.

Please refer to the article in this issue entitled, "NLM Online Training Program 1988," for the complete schedule of "Fundamentals of MEDLARS Searching" and the "Follow-Up to the Fundamentals" classes with application instructions.

NLM Online Training Program 1988

Patricia C. Buchan
MEDLARS Management Section, NLM

The schedule of NLM Online Services Training classes has been announced for 1988 and is reproduced on page 13. During the coming year, a total of 36 "Fundamentals of MEDLARS Searching" classes will be held throughout the United States. (See the article in this issue entitled, "NLM Training Program Changes.") Twenty-four of these will be held at sites other than NLM. This year there will be fourteen offerings of the "Follow-Up to the Fundamentals of MEDLARS Searching" classes. Five of these will be taught at NLM, and nine will be taught regionally.

Every attempt will be made to place training applicants in a class being taught in the location nearest to them. If a class is filled, the applicant will be notified and placed on a waiting list for that site. Because many of the 1987 classes have been filled, a number of applicants have already been placed on a waiting list for 1988 classes. These applicants will receive first priority when the scheduling process for 1988 begins.

HOW TO APPLY

To apply for either the "Fundamentals of MEDLARS Searching" or the "Follow-Up" class, interested searchers should complete the "Request for NLM Online Training" (found in Appendix B). The same form is used when applying for either class; however, only one type of class can be requested per form. Applicants should remember to indicate the modules of the "Fundamentals" or the "Follow-Up" classes that they plan to attend as well as the preferred site and dates of the training class.

Please note: In order to take Modules II or III of the "Fundamentals" class, it is necessary to have completed Module I either during the same week or during a previous "Fundamentals" or Initial Training class. Also, searchers who apply for the "Follow-Up" class should have previously attended the "Fundamentals" or Initial Training class or have experience searching the MEDLARS databases.

It is necessary to have a MEDLARS User ID code before attending an NLM training class. An application for access can be requested through the MEDLARS Service Desk. No more than one person per MEDLARS User ID code will be scheduled into a particular class (except where last-minute space becomes available).

All classes on the schedule are considered "tentative" pending sufficient enrollment (a minimum of 12 attendees) by approximately one month before the class. The revised application form for training can be found in Appendix B of this issue. Please make photocopies of this form for future requests.

NLM ONLINE SERVICES TRAINING
1988 Class Schedule

FUNDAMENTALS OF MEDLARS SEARCHING
(formerly INITIAL Training)

JANUARY	11-15	BETHESDA, MD
	25-29	DALLAS, TX
	25-29	LOS ANGELES, CA
FEBRUARY	22-26	ATLANTA, GA
	29- 4	BETHESDA, MD
MARCH	7-11	NEW YORK, NY
	21-25	BETHESDA, MD
	21-25	LOUISVILLE, KY
	21-25	STANFORD, CA
APRIL	11-15	BETHESDA, MD
	18-22	KANSAS CITY, MO
	18-22	LOS ANGELES, CA
MAY	2- 6	BOSTON, MA
	9-13	BETHESDA, MD
	9-13	CHICAGO, IL
JUNE	6-10	BETHESDA, MD
	6-10	NEW YORK, NY
	27- 1	PORTLAND, OR
JULY	11-15	BETHESDA, MD
	18-22	OMAHA, NE
	25-29	ANCHORAGE, AK
	25-29	NASHVILLE, TN
AUGUST	1- 5	BETHESDA, MD
	22-26	LOS ANGELES, CA
	22-26	MINNEAPOLIS, MN
	22-26	PHILADELPHIA, PA
SEPTEMBER	26-30	BETHESDA, MD
OCTOBER	17-21	BETHESDA, MD
	24-28	CHARLOTTESVILLE, VA
	24-28	SEATTLE, WA
NOVEMBER	14-18	BETHESDA, MD
	14-18	DENVER, CO
	14-18	NEW YORK, NY
	28- 2	LOS ANGELES, CA
DECEMBER	5- 9	BETHESDA, MD
	5- 9	SAN ANTONIO, TX

FOLLOW-UP TO THE FUNDAMENTALS
(formerly ADVANCED Training)

FEBRUARY	1- 5	BETHESDA, MD
FEBRUARY	22-26	NEW ORLEANS, LA
FEBRUARY	29- 4	SEATTLE, WA
APRIL	11-15	NEW YORK, NY
APRIL	25-29	BETHESDA, MD
MAY	9-13	LOS ANGELES, CA
JUNE	20-24	BETHESDA, MD
JUNE	20-24	DENVER, CO
AUGUST	15-19	BETHESDA, MD
SEPTEMBER	26-30	BOSTON, MA
SEPTEMBER	26-30	PHOENIX, AZ
OCTOBER	3- 7	CHICAGO, IL
OCTOBER	31- 4	BETHESDA, MD
DECEMBER	5- 9	ATLANTA, GA

Monthly Search Hint:

The TREE Command

The TREE command can be extremely useful when EXPLODing headings that are found in more than one MeSH category or that are found in more than one position in the same MeSH category. For example, as shown in Figure 1, EXPLODE NOSE results in a Multi-Meaning (MM) message because that heading is found in two places in the *Tree Structures*. There are three responses to this Multi-Meaning message: number, none, or expand. These are explained below:

NUMBER - Type only <u>one</u> number. If more than one number is typed, the program will return postings for the first number in the display.

NONE - Postings are actually given for the first meaning.

EXPAND - Displays MeSH headings one level broader than the one being EXPLODEd.

Often it takes more information than the broader term to decide which tree number to pick for the explosion. The specific indented headings are usually more important in this decision process. To see the indentions, either look them up in the printed *Tree Structures* or use the TREE command online. As seen in Figure 1, TREE NOSE results in a Multi-Meaning message as well. Most often the response to this Multi-Meaning message will be ALL. As shown in Figure 1, the computer displays the hierarchical positions of the specified heading within the *Tree Structures* by printing the more general term under which the requested heading is indented, the heading itself, and any subordinate term(s), as well as the MeSH tree number for each heading listed.

A plus sign after a heading indicates that there are other MeSH headings at more specific levels of indention. To see these issue another TREE command.

EXPLODE the desired tree number after comparing the two trees for NOSE to complete the search. This avoids the Multi-Meaning message.

```
SS 1 /C?
USER:                                   Explosion of a MeSH
exp nose                                heading that has 2
                                        positions in the
PROG:                                   Tree Structures.
MM (NOSE) (2)
              1  A1.456.505.733
              2  A4.531
NUMBER, NONE, OR EXPAND-


USER:
tree nose                               Use of TREE command
PROG:                                   to see a picture of
MM (NOSE) (2)                           those 2 positions
  1    A1.456.505.733                   in the Tree Structures
  2    A4.531                           online.
SPECIFY NUMBERS, ALL, OR, NONE-

USER:
all

PROG:

Face  A1.456.505
    Nose  A1.456.505.733

Respiratory System  A4
    Nose  A4.531
        Nasal Bone  A4.531.378
        Nasal Cavity  A4.531.449
        Nasal Mucosa  A4.531.520 (+)
        Nasal Septum  A4.531.591
        Nasopharynx  A4.531.662
        Turbinates  A4.531.898

SS 1 /C?
USER:                                   Explosion of the tree
exp a4.531                              number with the slant
                                        and coverage desired
PROG:                                   for search.
SS (1) PSTG (2104)
```

Figure 1

Serials Update

INDEXED TITLES UPDATE, SEPTEMBER 1987

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, AUGUST 1987

IDL CONNECTICUT DENTAL STUDENT JOURNAL
CONN DENT STUD J
1N1,MAY 1981--
DENTAL STUDENT ASSOCIATION AT UNIVERSITY OF CONNECTICUT
FARMINGTON CT UNITED STATES
INDEXING BEGAN WITH V7,MAR 1987.
ON ORDER
C45490000 JC: CTD
CONNECTICUT DENTAL STUDENT JOURNAL, OFFICE OF DENTAL STUDENT AFFAIRS, UNIV. OF CONN. SCHOOL OF DENTAL MEDICINE,FARMINGTON CT 06032

IDL DENTIST NEWS
DENT NEWS
1,1979?--
KLUWER
BRUXELLES BELGIUM
INDEXING BEGAN WITH V9N59,1987.
ON ORDER
SR0060616 JC: DEL

HLI HOME CARE ECONOMICS
HOME CARE ECON
1N1,WINTER 1987--
AMERICAN HEALTH CONSULTANTS
ATLANTA GA UNITED STATES
INDEXING BEGAN WITH V1N1,WINTER 1987.
W1 HO502H 0891-9364
SR0058461 JC: HCE

IM INTERNATIONAL JOURNAL OF CANCER. SUPPLEMENT
INT J CANCER [SUPPL]
1,1987--
ALAN R. LISS
NEW YORK UNITED STATES
IN PROCESS
SR0060684 JC: GRM

HLI JOURNAL OF MARKETING FOR MENTAL HEALTH
J MARK MENT HEALTH
1N1,FALL/WINTER 1986--
HAWORTH PRESS
NEW YORK UNITED STATES
VOL. 1, NO. 1 DATED FALL 1986; V. 1, NO. 2, DATED SUMMER 1987-SUMMER 1988. PUBLISHED SEMIANNUALLY, V. 2, FALL 1988- .
INDEXING BEGAN WITH V1N1,FALL/WINTER 1986.
W1 JO748DF 0883-7589
SR0054265 JC: JMC

HLI MEDICAL STAFF COUNSELOR
MED STAFF COUNS
1N1,SUMMER 1987--
MATTHEW BENDER
NEW YORK UNITED STATES
INDEXING BEGAN WITH V1N1,SUMMER 1987.
IN PROCESS
SR0060064 JC: MSC

INI SCANDINAVIAN JOURNAL OF CARING SCIENCES
SCAND J CARING SCI
1,1987--
ALMQUIST AND WIKSELL
STOCKHOLM SWEDEN
INDEXING BEGAN WITH V1N1,1987.
IN PROCESS 0283-9318
SR0058208 JC: SJO

TITLE CHANGES, AUGUST 1987

IM AMERICAN JOURNAL OF PHYSICAL MEDICINE AND REHABILITATION
AM J PHYS MED REHABIL
1988--
WILLIAMS AND WILKINS
BALTIMORE UNITED STATES
CONTINUES: AMERICAN JOURNAL OF PHYSICAL MEDICINE.
ON ORDER 0894-9115
SR0060641 JC: AJO

IM. ARCHIVES OF GYNECOLOGY AND OBSTETRICS
ARCH GYNECOL OBSTET
241N1,1987--
SPRINGER
BERLIN GERMANY, WEST
CONTINUES: ARCHIVES OF GYNECOLOGY.
IN PROCESS 0932-0067
SR0060677 JC: 6YS

IM BIOLOGY OF EXTRACELLULAR MATRIX
BIOL EXTRACELL MATRIX
1987?--
ACADEMIC PRESS
NEW YORK UNITED STATES
CONTINUES: INTERNATIONAL REVIEW OF CONNECTIVE TISSUE RESEARCH.
ON ORDER
SR0060642 JC: BEM

IM BIOMATERIALS, ARTIFICIAL CELLS, AND ARTIFICIAL ORGANS
BIOMATER ARTIF CELLS ARTIF ORGANS
15N1,1987--
MARCEL DEKKER
NEW YORK UNITED STATES
CONTINUES: BIOMATERIALS, MEDICAL DEVICES, AND ARTIFICIAL ORGANS.
ON ORDER 0890-5533
SR0060682 JC: BAC

IM CHUNG KUO CHI SHENG CHUNG HSUEH YU CHI SHENG CHUNG PING TSA CHIH
CHUNG KUO CHI SHENG CHUNG HSUEH YU CHI SHENG CHUNG PING TSA CHIH
5N1,1987--
INSTITUTE OF PARASITIC DISEASES, CHINESE ACADEMY OF PREVENTIVE MEDICINE
SHANGHAI CHINA
CONTINUES: CHI SHENG CHUNG HSUEH YU CHI SHENG CHUNG PING TSA CHIH.
W1 CH986H
SR0060573 JC: DAL

IM ENDOCRINOLOGY AND METABOLISM CLINICS OF NORTH AMERICA
ENDOCRINOL METAB CLIN NORTH AM
16N1,MAR 1987--
W.B. SAUNDERS
PHILADELPHIA UNITED STATES
CONTINUES IN PART: CLINICS IN ENDOCRINOLOGY AND METABOLISM.
ON ORDER 0889-8529
SR0060729 JC: EMC

IDL PROCEEDINGS OF THE BRITISH SOCIETY OF DENTAL AND MAXILLOFACIAL RADIOLOGY
PROC BR SOC DENT MAXILLOFAC RADIOL
1,1986--
BRITISH SOCIETY OF DENTAL AND MAXILLOFACIAL RADIOLOGY
ENGLAND
CONTINUES: NEWSLETTER OF THE BRITISH SOCIETY OF DENTAL AND MAXILLOFACIAL RADIOLOGY.
INDEXING BEGAN WITH N1,1986.
ON ORDER
SR0060617 JC: PBS

IM SCHWEIZER MONATSSCHRIFT FUR ZAHNMEDIZIN
IDL
SCHWEIZ MONATSSCHR ZAHNMED
97N1,1987--
SOCIETE SUISSE D ODONTO STOMATOLOGIE
ZURICH SWITZERLAND
CONTINUES: SCHWEIZERISCHE MONATSSCHRIFT FUR ZAHNMEDIZIN.
W1 SC396H
SR0060574 JC: UEY

APPENDIX A

MEDLARS® PRICING SCHEDULE

NLM DOMESTIC AND NON-U.S. CHARGES AND MINIMUMS FOR ONLINE SERVICES AND LEASING TAPE COPIES OF DATABASES EFFECTIVE OCTOBER 1, 1987

	Online Charges		Leased Tape Charges	
Database	Domestic 1/	Non-U.S. 2/	Domestic 3/	Non-U.S. 4/
AVLINE®	Online Algorithm	No minimum; usage charges only	5/Base file: (up to current year) $1,000 Current year: $1,000/yr; updated monthly No usage charges	5/Base file: (up to current year) $1,250 Current year: $1,250/yr; updated monthly No usage charges
BIOETHICSLINE®	Online Algorithm	$1,000/yr minimum	$1,000/yr minimum	$1,000/yr minimum
CANCERLIT®	Online Algorithm	$3,000/yr minimum	$3,000/yr minimum	$3,000/yr minimum
CATLINE®	Online Algorithm	No minimum; usage charges only	5/Base file: (1965 up to the current year) $3,000 Current year: $4,000/yr; updated weekly or Current year: $2,000/yr; updated monthly Retrospective file: (Pre-1965) $3,000 No usage charges	5/Base file: (1965 up to the current year) $3,750 Current year: $5,000/yr; updated weekly or Current year: $2,500/yr; updated monthly Retrospective file: (Pre-1965) $3,750 No usage charges

revised September 1987

NLM DOMESTIC AND NON-U.S. CHARGES EFFECTIVE OCTOBER 1, 1987

Database	Online Charges		Leased Tape Charges	
	Domestic 1/	Non-U.S. 2/	Domestic 3/	Non-U.S. 4/
CHEMICAL CARCINOGENESIS RESEARCH INFORMATION SYSTEM (CCRIS)	8/Online Algorithm	9/$2,500/yr minimum	Availability and Prices to be announced January 1, 1988	
CHEMLINE®	6/Online Algorithm	7/$1,000/yr minimum	7/$1,000/yr minimum	7/$1,000/yr minimum
CLINPROT®	Online Algorithm	$1,000/yr minimum	$1,000/yr minimum	$1,000/yr minimum
DIRLINE®	Online Algorithm	$1,000/yr minimum	Not available	Not available
HAZARDOUS SUBSTANCES DATA BANK (HSDB®)	8/Online Algorithm	9/$2,500/yr minimum	Availability and Prices to be announced January 1, 1988	
HEALTH PLANNING	Online Algorithm	$3,000/yr minimum	$3,000/yr minimum	$3,000/yr minimum
HISTLINE®	Online Algorithm	$1,000/yr minimum	$1,000/yr minimum	$1,000/yr minimum
INFORM	Online algorithm excluding the charge for citations and characters; no offline processing	No minimum or flat rate; online algorithm excluding the charge for citations and characters; no offline processing	Not available	Not available

NLM DOMESTIC AND NON-U.S. CHARGES EFFECTIVE October 1, 1987

Database	Online Charges		Leased Tape Charges	
	Domestic 1/	Non-U.S. 2/	Domestic 3/	Non-U.S. 4/
INTROMED®	Online algorithm excluding the charge for citations and characters; no offline processing	No minimum or flat rate; online algorithm excluding the charge for citations and characters; no offline processing	$1,000/yr; no usage charges	$1,250/yr; no usage charges
INTROTOX	8/Online algorithm for connect time only; no offline processing	9,10/No minimum or flat rate; online algorithm for connect time only; no offline processing	Not available	Not available
MEDLEARN®	$23.50/hr prime time; $16.50/hr non-prime time; no offline processing	11/No minimum; $26.50/hr prime time; $19.50/hr non-prime time; no offline processing	Not available	Not available
MEDLINE® & BACKFILES	Online Algorithm	$15,000/yr minimum	17/Base file: (1966 up to the current year) $10,000 /yr minimum 17/Current year: $5,000/yr minimum	Base file: (1966 up to the current year) $10,000 /yr minimum Current year: $5,000/yr minimum
MESH VOCABULARY FILE®	Online Algorithm	No minimum; usage charges only	$1,000/yr; no charge with MEDLINE; no usage charges	$1,250/yr; no charge with MEDLINE; no usage charges
NAME AUTHORITY FILE®	Online Algorithm	No minimum; usage charges only	$1,000/yr; no usage charges	$1,250/yr; no usage charges

NLM DOMESTIC AND NON-U.S. CHARGES EFFECTIVE OCTOBER 1, 1987

Database	Online Charges		Leased Tape Charges	
	Domestic 1/	Non-U.S. 2/	Domestic 3/	Non-U.S. 4/
PDQ®	$23.50/hr prime time; $16.50/hr non-prime time; no offline processing	11/$1,000/yr minimum; $26.50/hr prime time; $19.50/hr non-prime time; no offline processing	18/Not available from NLM	18/Not available from NLM
POPLINE	Online Algorithm	$2,000/yr minimum	$2,000/yr minimum	$2,000/yr minimum
RTECS®	12/Online Algorithm	13/$1,000/yr minimum	14/$1,000/yr minimum	15/$1,000/yr minimum
	NOTE: NLM expects to move RTECS to the TOXNET system in the Fall of 1987 where it will be charged under the general TOXNET rate structure. The ELHILL version of RTECS is expected to be discontinued in December 1987.			
SDILINE®	Online Algorithm	No minimum; usage charges only	$5,000/yr minimum (if leased separately from MEDLINE)	$5,000/yr minimum (if leased separately from MEDLINE)
SERLINE®	Online Algorithm	No minimum; usage charges only	$1,000/yr; no usage charges	$1,250/yr no usage charges
TOXLINE®	Online Algorithm	$2,500/yr minimum	$2,500/yr minimum	$2,500/yr minimum
TOXLIT & BACKFILE	16/Online Algorithm	7/$2,500/yr minimum	7/Current file: (1981 through the current year) $2,500/yr minimum Backfile: (1965-80) $2,500/yr minimum	7/ Current file: (1981 through the current year) $2,500/yr minimum Backfile: (1965-80) $2,500/yr minimum

NOTES: In addition to the above rates, the following charges apply to each Domestic and Non-U.S. Online Center: $1 per Offsearch per file: and $1 per Automatic SDI. Automatic SDI searches on the TOXLIT database are $4.00 for domestic users ($1.00 plus $3.00 royalty). In general, non-U.S. online users incur charges under the online pricing algorithm and are charged $3.00 extra on the connect charge portion and $0.10 extra per offline page, and are not charged amounts designated as royalties. These royalties are negotiated separately with and paid by the International Online MEDLARS Centers directly to the database producers for TOXLIT, TOXLIT65, and CHEMLINE and not to NLM.

A Tape License Agreement packet is available upon written request to the Associate Director, Library Operations, National Library of Medicine, Bethesda, MD 20894. For a fee of $25.00, a sample tape is also available upon written request in advance of signing a license agreement. In addition, NLM offers a Subset Tape Program; see Note 17.

1/ ELHILL online charges for domestic users are calculated by using an algorithm which includes connect hour charges and charges for search statements, citations, interactions (i.e., carriage returns), computer resources (i.e., disk accesses), and characters transmitted to the user's terminal. Unless otherwise noted, the connect hour charge portion of the algorithm is $7.85/hour prime time and $5.10/hour non-prime time, and the offline print charge is $0.25 per page. Details of the entire algorithm follow these notes.

2/ ELHILL online charges for non-U.S. users are calculated by using an algorithm which includes connect hour charges and charges for search statements, citations, interactions (i.e., carriage returns), computer resources (i.e., disk accesses), and characters transmitted to the user's terminal. Each database, except the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MESH VOCABULARY file, MEDLEARN and the INFORM and INTROMED databases, has a minimum against which usage is charged. Unless otherwise noted, the connect hour charge portion of the algorithm is $10.85/hour prime time and $8.10/hour non-prime time, and the offline print charge is $0.35 per page. Usage over the minimum will be calculated at the rate of the file being accessed. The dollar equivalent of usage over the minimum on one file will be applied to the minimum for the other file(s). Usage on technical databases, the MESH VOCABULARY File, MEDLEARN, INFORM and INTROMED may not be applied to minimums on other databases. Details of the entire algorithm follow these notes.

3/ ELHILL tape charges for domestic users consist of an annual minimum charge for each database except the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MESH VOCABULARY File, MEDLEARN, and INTROMED. Unless otherwise noted, usage charges of $4.00/connect hour and $0.01/offline citation are applied to the annual minimum. (The use charge is $3.00/connect hour between 6:00 p.m. and 6:00 a.m. local time Monday through Friday, and all day Saturday and Sunday. This time period is referred to as tape non-prime time.)

Usage over the minimum will be charged the rate of the file being accessed. For institutions or organizations leasing two or more files with a minimum plus usage, the dollar equivalent of usage over the minimum for one file may be applied to the minimum for the other files(s).

An annual flat fee, with no usage charges, will be charged for each of the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MESH VOCABULARY File, and INTROMED. Usage on other leased databases may not be applied to these annual flat rate fees.

Domestic centers providing service to non-U.S. users will be charged at the non-U.S. rate for this portion of their service.

Extra charges are levied for class-maintained files or special formats. Prices for files and formats currently available are:

SDILINE GENER FORMAT	$1,000/year
CLASS-MAINTAINED MEDLINE DATA:	
Complete Database Replacement Copies	$3,000/year
Changed Records Only	$1,000/year

Charges for physical tapes and shipping are included in the minimum charges for each database.

4/ Tape charges for non-U.S. users and the portion of non-U.S. use provided by domestic centers consist of an annual minimum charge for each database except the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MESH VOCABULARY File, and INTROMED. Unless otherwise noted, usage charges of $7.00/connect hour and $0.03/offline citation are applied to the annual minimum. (The use charge is $6.00/connect hour between 6:00 p.m. and 6:00 a.m. local time Monday through Friday, and all day Saturday and Sunday. This time is referred to as tape non-prime time.) Usage over the minimum will be charged the rate of the file being accessed. For institutions or organizations leasing two or more files with a minimum plus usage, the dollar equivalent of usage over the minimum for one file may be applied to the minimum for the other file(s).

An annual flat fee, with no usage charges, will be charged for each of the technical databases (AVLINE, CATLINE, NAME AUTHORITY, and SERLINE), the MESH VOCABULARY File, and INTROMED. Usage on other leased databases may not be applied to these annual flat-rate fees.

Extra charges are levied for class-maintained files or special formats. Prices for files and formats currently available are:

SDILINE GENER FORMAT	$1,000/year
CLASS-MAINTAINED MEDLINE DATA:	
Complete Database Replacement Copies	$3,000/year
Changed Records Only	$1,000/year

Charges for physical tapes and shipping are included in the minimum charges for each database.

5/ Available in ELHILL or MARC version except for weekly updates of the current-year CATLINE file which are available only in MARC.

6/ CHEMLINE royalty charges of $0.25 per citation and $54.00 per hour of connect time are added to the algorithm. Offline page charges of $1.53 per page include $1.28 per page royalty. Royalty charges are subject to change without advance notice.

7/ CHEMLINE, TOXLIT, and TOXLIT65 royalties are not paid to NLM but are negotiated with and paid directly to file content providers such as CAS, BIOSIS and ASHP.

8/ TOXNET (HSDB, CCRIS, RTECS, & INTROTOX) online charges are calculated for domestic users by using an algorithm which includes connect hour charges and charges for search statements, interactions (i.e., carriage returns) and characters created for transmission to the user's terminal. (INTROTOX is charged only the connect hour portion.) Unless otherwise noted, the connect hour portion of the algorithm is $10.00/hour prime time and $8.00/hour non-prime time, and the offline print charge is $0.25 per page.

9/ TOXNET (HSDB, CCRIS, RTECS, & INTROTOX) online charges are calculated for non-U.S. users by using an algorithm which includes connect hour charges and charges for search statements, interactions (i.e., carriage returns), and characters created for transmission to the user's terminal. (INTROTOX is charged only the connect hour portion). For Fiscal Year 1988, one minimum of $2,500 will be charged for the HSDB and CCRIS files, and a second minimum of $1,000 will be charged for RTECS, for a total minimum of $3,500. As other files are added to the TOXNET system, individual minimums will be established for each file. Unless otherwise noted, the connect hour portion of the algorithm is $13.00/hour prime time and $11.00/hour non-prime time, and the offline print charge is $0.35 per page. Usage over the minimum charges will be calculated at the rate of the file being accessed. The dollar equivalent of usage over the minimum on each of these files (except INTROTOX; see Note 10) may be applied to the minimum for other MEDLARS databases on either ELHILL or TOXNET.

10/ INTROTOX may only be requested if the HAZARDOUS SUBSTANCES DATABANK has been requested. Usage on INTROTOX may not be applied to a minimum on any other MEDLARS database. Online charges for non-U.S. users are $13.00/hour prime time and $11.00/hour non-prime time.

11/ Usage is charged separately, i.e., usage on this file may not be applied to the aggregate minimum charges.

12/ On ELHILL, the online algorithm for RTECS for domestic users includes connect charges of $5.10 per hour non-prime time and $7.85 per hour prime time; offline prints are $0.25 per page. On TOXNET, the online algorithm includes connect charges of $8.00 per hour non-prime time and $10.00 per hour prime time; offline prints are $0.25 per page.

13/ On ELHILL, the online algorithm for RTECS for non-U.S. users includes connect charges of $8.10 per hour non-prime time and $10.85 per hour prime time; offline prints are $0.35 per page. On TOXNET, the online algorithm includes connect charges of $11.00 per hour non-prime time and $13.00 per hour prime time; offline prints are $0.35 per page.

14/ For domestic ELHILL RTECS tape users, usage charges of $22/connect hour and $0.17/offline citation are applied to the annual minimum. (The use charge is $21/connect hour during tape non-prime time -- see Note 3.)

15/ For non-U.S. ELHILL RTECS tape users, usage charges of $25/connect hour and $0.19/offline citation are applied to the annual minimum. (The use charge is $24/connect hour during tape non-prime time -- see Note 4.)

16/ TOXLIT royalty charges of $0.21 per citation and $68.60 per hour of connect time are added to the basic online algorithm. Offline page charges of $0.92 per page include $0.67 per page royalty. Royalty charges are subject to change without advance notice.

17/ MEDLINE data are also available under the NLM Subset Program for domestic users. A subset information packet is available upon request from MEDLARS Management Section, National Library of Medicine, Bethesda, MD 20894. Prices are prorated on the amount of data received and a flat-rate option is also available to qualified users. The detailed "Charges for Subsets" is included at the end of this pricing schedule.

18/ Contact the International Cancer Research Data Bank (ICRDB) at the National Cancer Institute (NCI) for information on leasing PDQ on tape.

Charges For Subsets

Subsets are available on magnetic tape from the MEDLINE database and its Backfiles. All charges include a copy of the MESH Vocabulary File if requested.

"Personal Use" Subsets: There is an annual limit of 150,000 citations.

I. Individualized Subsets: annual subscription to the current year and Backfiles -- $1,500/year flat rate. Charges include monthly updates and annual replacement tape(s) for which maintenance and error correction have been performed.

II. Custom Subsets: one-time retrieval from current year and Backfiles -- $500 flat rate; no updates provided.

"Individualized Multiple Use" Subsets: Charges include monthly updates and annual replacement tape(s) for which maintenance and error correction have been performed.

I. Option A: Annual minimum with use charge. (The use charge offsets the annual minimum charge. If the use is a dollar equivalent less than the minimum, the minimum is paid. If the actual use is a dollar equivalent more than the minimum, the dollar equivalent is paid.)

A. Current Year Annual Subscription

1. Annual Minimum Charge is dependent upon the percentage of the current year's MEDLINE data received:

up to 25% file:	$1,250
26% to 50% file:	2,500
51% to 75% file:	3,750
76% to 100% file:	5,000

2. Use charges offset annual minimum: $4 per connect hour during prime time and $3 per hour during non-prime time (6:00 pm to 6:00 am local time Monday through Friday, and Saturday, Sunday, and holidays) PLUS $0.01 for each citation printed offline at the host computer.

B. Backfiles Annual Subscription

1. Annual Minimum Charge is dependent upon the percentage of data from 1966 up to the current year received:

up	to	25% file:	$2,500
26%	to	50% file:	5,000
51%	to	75% file:	7,500
76%	to	100% file:	10,000

2. Use charges offset annual minimum: as described for Current Year Annual Subscription

II. Option B: Flat Rate

Under certain circumstances, a flat rate pricing option is available for an institution/organization which does not vend a database service. In order to qualify for the flat rate, the institution/organization must limit access to either academically affiliated institutions or corporate members of the organization which are located within a "reasonable geographic distance" (usually interpreted to be within the confines of the local region's telephone area code). Alternatively, if the institution/organization does not anticipate having sufficient use to warrant paying the flat rate, it may offset the minimum annual charge by $4 per connect hour with no charges for citations printed offline (as a second option to the annual minimum use charges described in Section I.A.2 above).

A. Current Year Annual Subscription

Charges are not dependent upon the size of the file. There is a $10,000 annual flat rate which includes one academically affiliated institution. An additional annual charge of $1,000 is made for each additional academically affiliated insitution to which service is provided.

B. Backfiles Annual Subscription

Annual flat rate is dependent upon the size of the subset licensed. For MEDLINE data from 1966 up to the current year:

up	to	25% file:	$2,500
26%	to	50% file:	5,000
51%	to	75% file:	7,500
76%	to	100% file:	10,000

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NLM ONLINE PRICING ALGORITHM CHARGES TO DOMESTIC USERS[1/]

File	Connect Charge (Per Hour)		Search Statement Charge	Online Citation Charge	Interaction (Carriage Returns)	Computer Resources Disk Accesses (Per 100)		Online Character Charges (Per 1,000)		Average Searcher Charges* (Per Hour)	
	Non-Prime	Prime				Non-Prime	Prime	Non-Prime	Prime	Non-Prime	Prime
ELHILL SYSTEM											
MEDLINE & Backfiles	$ 5.10	$ 7.85	$.02	$.01	$.01	$.07	$.13	$.08	$.12	$16.50	$23.50
TOXLIT & Backfile	73.70**	76.45**	.02	.22	.01	.07	.13	.08	.12	110.50	117.50
TOXLINE	5.10	7.85	.02	.01	.01	.07	.13	.08	.12	16.50	23.50
CHEMLINE	59.10***	61.85***	.02	.26***	.01	.07	.13	.08	.12	80.50	87.50
INFORM	5.10	7.85	.02	--	.01	.07	.13	--	--	8.50	11.50
INTROMED	5.10	7.85	.02	--	.01	.07	.13	--	--	8.50	11.50
All Other	5.10	7.85	.02	.01	.01	.07	.13	.08	.12	16.50	23.50
MEDLEARN	16.50	23.50	--	--	--	--	--	--	--	16.50	23.50
PDQ	16.50	23.50	--	--	--	--	--	--	--	16.50	23.50
TOXNET SYSTEM											
HSDB	$ 8.00	10.00	.04	--	.02	--	--	.08	.12	18.60	25.70
CCRIS	8.00	10.00	.04	--	.02	--	--	.08	.12	18.60	25.70
RTECS	8.00	10.00	.04	--	.02	--	--	.08	.12	18.60	25.70
INTROTOX	8.00	10.00	--	--	--	--	--	--	--	8.00	10.00

* Average searcher charges per hour may differ according to computer resources used and citations and characters printed online.

** Includes royalty charges of $68.60 per connect charge and $0.21 per citation charge for TOXLIT and its Backfile (TOXLIT65).

***Includes royalty charges of $54.00 per connect charge and $0.25 per citation for CHEMLINE.

NLM OFFLINE CHARGES TO DOMESTIC USERS[1/]

Pages	Per Page
MEDLINE and other databases	$0.25
TOXLIT	0.92 (Includes $0.67 royalty charge per page)
CHEMLINE	1.53 (Includes $1.28 royalty charge per page)
TOXNET (HSDB, RTECS or CCRIS	0.25
Offsearches	**Per File**
All Databases	$1.00 (plus page charges)
Automatic SDI Searches	
SDILINE, HEALTH, AVLINE, CATLINE, CANCERLIT, POPLINE, TOXLINE	$1.00 (plus page charges)
TOXLIT	4.00 (plus page charges; includes $3.00 royalty charge)

Current prime time is 10:00 AM to 5:00 PM Eastern Time, Monday through Friday.
All other time is non-prime.

1/Non-U.S. online users incur charges under the online pricing algorithm and are charged $3.00 extra on the connect charge portion and $0.10 extra per offline page, and are not charged amounts designated as royalties. These royalities are negotiated separately with and paid by the online International MEDLARS Centers directly to the database producers for TOXLIT, TOXLIT65, and CHEMLINE and not to NLM.

APPENDIX B

REQUEST FOR NLM ONLINE TRAINING

DATE: ____/____/____

TRAINEE NAME: _____ PHONE: (___)_____X_____

ORGANIZATION: _____

ADDRESS: _____

CITY: _____ STATE:_____ ZIP:_____

User ID code: __ __ __ __ __ **OR** I am applying for a User ID code* /__/

*If you are currently applying for a User ID code, be sure to include the complete Application for Online Access with your training request.

TRAINING CLASS INFORMATION: You may apply for either the "Fundamentals" or the "Follow-Up" class but not both. Check all the modules you will attend.

1. **FUNDAMENTALS OF MEDLARS SEARCHING:**
   a. Module 1 - Intro to MEDLARS/MEDLINE (Monday-Wednesday) _____
   b. Module 2 - Chemical/Toxicological Databases (Thursday) _____
   c. Module 3 - Cancer Databases (Friday morning) _____

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

2. **FOLLOW-UP TO THE FUNDAMENTALS:** (Requires familiarity with MEDLARS.)
   a. Module 1 - MEDLINE/MeSH/HEALTH Search Skills (Monday) _____
   b. Module 2 - Cancer Information Searching (Tuesday a.m.) _____
   c. Module 3 - POPLINE/BIOETHICS/HISTLINE (Tuesday p.m.) _____
   d. Module 4 - Technical Services Databases (Wednesday) _____
   e. Module 5 - CHEMLINE/TOXLINE/TOXLIT Searching (Thursday) _____
   f. Module 6 - Tips & Techniques for TOXNET (Friday) _____

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

MAIL TRAINING REQUEST TO:

MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike, Bldg. 38A
Bethesda, MD 20894

QUESTIONS? Call:
800/638-8480 or 301/496-6193

****

NLM USE ONLY - Do not write in this area. DATE: _____

"FUNDAMENTALS"

Class Dates: _____

MODULES: 1 ___ 2 ___ 3 ___

Site: _____

"FOLLOW-UP"

Class Dates: _____

MODULES: 1 ___ 3 ___ 5 ___
2 ___ 4 ___ 6 ___

Site: _____

9/87

USER:
UNITED STATES (PX)

Note that this differs from the pre-explosion UNITED STATES MC (PX) which retrieves citations to articles about the United States or any of its States rather than citations to articles published there.

In SDILINE citations to articles published in a single country may be retrieved by using the name of the State or Country with the qualifier (CY), but to explode a place of publication you must use the strategy EXP Z...: (ZN) just as in MEDLINE.

7.4 SPECIAL FEATURES OF SEARCHING MEDLINE

Subject searching in MEDLINE may be accomplished in two ways: by using the controlled MeSH vocabulary, including the MeSH Chemical Records, and by "free-text" searching, using Text Words. This dual capability is known as "two-tiered" searching. Other capabilities which may be used to make MEDLINE searching easier and more efficient include SAVE/SAVESEARCH, STORESEARCH, OFFSEARCH, stored addresses, and Automatic SDI Service.

7.4.1 CONTROLLED VOCABULARY SEARCHING - MEDICAL SUBJECT HEADINGS

Each item to be input to the MEDLINE database is examined by an Indexer, who assigns MeSH headings. Thus, an item can be retrieved by subject whether or not a particular word appears on the title or abstract.

Searching with MeSH headings gives the searcher four capabilities for enhancing both retrieval and relevance:

1. It enables the searcher to limit retrieval to those citations in which the heading searched is the point of the article by applying a central concept indicator (*) to the heading. An article indexed, for instance, *MARFAN SYNDROME will be about Marfan syndrome, whereas an article indexed merely MARFAN SYNDROME may deal only incidentally with the Marfan syndrome.

2. It enables the searcher to zero in on a specific aspect of a subject by searching a main heading/subheading combination, with or without a central concept indicator. A citation retrieved by searching *MARFAN SYNDROME/EN will certainly deal primarily, if not entirely, with the enzyme defect in Marfan syndrome.

3. It enables the searcher to use the EXPLODE capability, with or without a central concept indicator and with or without subheadings, to retrieve all articles indexed to a broad term as well as those indexed to the more specific terms indented under the broad term in the MeSH Tree Structures. For instance, the strategy

   EXP *COLLAGEN DISEASES/EN

   will retrieve articles about the enzyme defects in any collagen disease, including Marfan syndrome.

4. It enables the searcher to do global searches on very large subjects by using pre-explosions, with or without a central concept indicator. Pre-explosions (a list of which appears in APPENDIX C of this Chapter) can be used with subheadings, but the subheadings must be ANDed with the pre-explosion:

*NEOPLASMS (PX) AND ENZYMOLOGY (SH)

When searching with MeSH terms in the backfiles, it is important to know when a particular term was introduced into the vocabulary; this information is given in the Annotated Alphabetic List. If the specific term in which one is interested has a date in the Annotated Alphabetic List, the term will retrieve nothing before that date, and so one must use a broader term to retrieve citations from earlier years. For example, the term PLANTS, TOXIC was introduced with the 1976 MeSH. To search for this concept before 1976 one must use the broader term PLANTS. According to the table of entry dates found in APPENDIX A of this Chapter, the first date of entry for the 1976 citations (i.e., those indexed using the 1976 vocabulary) is November 20, 1975. The MED75 backfile contains citations entered into the database between December 5, 1974 and November 3, 1976. In order to search for this concept in MED75 both terms would have to be used. However, the searcher would use the ranging capability (see PART 4 of this Manual) to divide the search into two parts: the first year, in which PLANTS was the only term available, and the second year, in which PLANTS, TOXIC was available. The first search statement:

```
SS 1 /C?
USER:
PLANTS, TOXIC
```

requires no ranging operation because all possible retrieval is wanted, i.e., any citation indexed with the term PLANTS, TOXIC. The next search statement consists of the broader term PLANTS and a ranging operation to limit the retrieval to those items indexed (and entered into the database) before the more specific term became available:

```
SS 2 /C?
USER:
PLANTS AND LESS THAN 751120 (DA)
```

In this way, the amount of material that must be examined for false drops is minimized.

For a complete discussion of the MeSH controlled vocabulary see PART 6 of this Manual.

7.4.2 CONTROLLED VOCABULARY SEARCHING - MESH CHEMICALS

In addition to the subject headings published in Medical Subject Headings and used to index articles for Index Medicus, the MeSH Vocabulary File also contains records for controlled chemical terms which are appended to citations by Indexers. The chemical terms are searchable online, although the citations appear in Index Medicus under the broader MeSH Headings to which the chemical terms are mapped. Online, specific chemicals which are

not MeSH Headings but which are included in the MeSH Vocabulary File, may be searched in MEDLINE. They must be qualified by the mnemonic (NM) whether one searches the form which is in the NM field or the form which is in the SY field in the MeSH Vocabulary File record. The Name of Substance may also be searched by ANDing its separate parts together as Name Fragments (NF). Each Name of Substance, as well as chemicals which are MeSH Headings, may be searched by CAS Registry Number or Enzyme Commission Number, both of which, along with the Name of Substance, appear in the RN field of the MEDLINE record. For details of searching MeSH Chemicals in MEDLINE see the descriptions of the NM and RN data elements in this Chapter as well as PART 6 of this Manual.

7.4.3 TEXT WORD SEARCHING

Significant words from the Title and Abstract fields are available for Text Word searching in MEDLINE. The generation and use of Text Words are fully discussed under TEXT WORD TERM GENERATION and TEXT WORD SEARCHING in PART 4 of this Manual. Text Words are always discrete words; multi-word phrases can never be Text Words. In MEDLINE Text Words must be qualified by the mnemonic (TW) in searching.

It is possible to search for a term as both a Text Word and a MeSH Heading at the same time by preceding the term with the word ALL. If a user searching MEDLINE uses the ALL instruction, e.g., ALL LIVER, the program searches the Index to MEDLINE for that exact term. All occurrences, Text Word, MeSH Heading, Title Abbreviation, Pre-explosions (PX), etc. are retrieved. However, if the term is a "see" reference or an Entry Version, which requires mapping by the MeSH Vocabulary File, the term is not in the Index. Thus, it cannot be retrieved, and the postings may not represent the entire set of possible citations. For this reason, users are advised to use only valid print versions of MeSH descriptors with the ALL instruction. For example, entering the term CANCER will retrieve citations with the descriptor NEOPLASMS, but entering ALL CANCER will retrieve only citations containing CANCER as Text Word or Title Abbreviation; citations indexed to the MeSH term NEOPLASMS will not be retrieved.

7.4.4 STRINGSEARCHING

The techniques and uses of STRINGSEARCHing are discussed at length in PART 4 of this Manual. STRINGSEARCHing is the most expensive technique in searching in terms of the computer resources that it uses. It should never be used until the retrieval set has been narrowed down to as few citations as possible by the use of MeSH Headings and/or Text Words. STRINGSEARCH is an online technique; it should never be used in STORESEARCH or in OFFSEARCH because the the offline search programs will purge any search in which more than 3,000 citations are to be STRINGSEARCHed.

STRINGSEARCH should also never be used in a search which is to be SAVEd for execution against a different database either by means of the SAVE or the SAVESEARCH command. (These commands are described fully in PART 5.) When a SAVEd search formulation containing a STRINGSEARCH encounters a free-space record, i.e., a pointer to a record which does not exist, the program responds as if a RESTART command had been issued, and all the user's previous interactions are lost. (If you ever receive a WELCOME ... message while you are in the middle of a search, call MEDLARS Management Section immediately.)

*U.S. G.P.O. 1987-181-305:60007

CHANGE OF ADDRESS FORM
(U.S. users only)

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OCTOBER 1987
No. 222

The NLM Technical Bulletin

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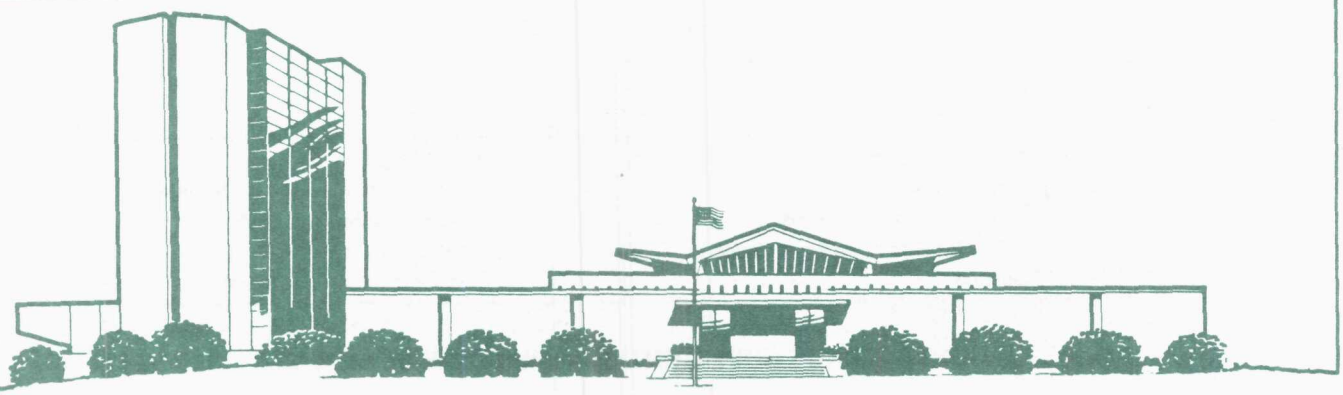
SPECIAL YEAR-END PROCESSING ISSUE

This issue of the *NLM Technical Bulletin* contains an expanded Technical Notes section as well as a separate article, concentrating on issues related to Year-End processing. Year-End processing involves large-scale maintenance of MEDLINE®, the MEDLINE Backfiles, HEALTH, and the CANCERLIT® databases, primarily to reflect changes in the MeSH® (Medical Subject Headings) vocabulary. The results of these operations may have a substantial impact on searchers, particularly those with SAVESEARCHes and those who participate in the Automatic SDI program.

Various Technical Notes discuss these changes and operations in detail and include the dates when these changes take effect. Searchers should pay careful attention to these dates in order to plan for the updating of STORESEARCHes.

The Year-End article on page 9, details changes and features of the 1988 system.



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National Library of Medicine

MEDLARS DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL COMPUTER				
AVLINE	16,415	THROUGH 1987	23 OCT 87	
BIOETHICS	23,602	JAN 73-1987	10 OCT 87	8710(EM)
CANCERLIT	612,061	JAN 63-OCT 87	03 OCT 87	8710(EM)
CATLINE	621,574	THROUGH 1987	23 OCT 87	
CHEMLINE	770,973		10 OCT 87	8710(EM)
CLINPROT	6,288		23 OCT 87	8710(EM)
DIRLINE	15,629		22 SEP 87	
HEALTH	394,148	JAN 75-NOV 87	10 OCT 87	8711(EM)
HISTLINE	79,618		10 OCT 87	8710(EM)
MEDLINE	764,718	JAN 85-NOV 87	03 OCT 87	8711(EM)
MED83	584,231	JAN 83-DEC 84	29 AUG 87	
MED80	804,712	JAN 80-DEC 82	05 SEP 87	
MED77	774,934	JAN 77-DEC 79	08 AUG 87	
MED75	642,573	JAN 75-DEC 76	16 MAY 87	
MED71	882,889	JAN 71-DEC 74	05 JUN 87	
MED66	954,329	JAN 66-DEC 70	15 JUN 87	
MESH VOC	62,237	1987	23 OCT 87	
NAME AUTH	289,364		17 OCT 87	
PDQ			02 OCT 87	
POPLINE	154,452	1970-OCT 87	10 OCT 87	8710(EM)
RTECS	90,474	THROUGH JUL 87	27 AUG 87	
SDILINE	27,205	NOV 87	03 OCT 87	8711(EM)
SERLINE	69,552	1987	20 OCT 87	
TOXLINE	836,512	PRE-1965-1987	17 OCT 87	8710(EM)
TOXLIT	753,281	1981-1987	17 OCT 87	8710(EM)
TOXLIT65	771,593	1965-1980	01 AUG 87	
TOXNET COMPUTER				
CCRIS	1,165		28 APR 87	
HSDB	4,151		08 SEP 87	

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Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 that is considered most relevant to the item being discussed, e.g., (Manual 4.7.2). Users should keep in mind that the item may pertain to other sections as well.

SCHEDULED DOWNTIME DECEMBER 12 & 13

The NLM computer will be unavailable on Saturday, December 12, 1987 and Sunday, December 13, 1987, in order to install the MEDLINE/SDILINE®/BACKFILES, HEALTH and CANCERLIT databases that have been class-maintained with the 1988 Medical Subject Headings. Please see the Technical Notes in this issue titled, "YEAR-END PROCESSING" and "CANCERLIT YEAR-END PROCESSING AND AUTOMATIC SDIS" for additional information about the change to the 1988 databases.

THANKSGIVING HOLIDAY COMPUTER SCHEDULE

The NLM computer will be up on a non-guaranteed basis on Thursday, November 26, 1987, Thanksgiving Day. Neither the computer room nor the MEDLARS® Management Service Desk will be staffed. Non-guaranteed hours will be in effect from 11:15 pm Eastern Time (ET) on Wednesday, November 25, 1987 to 11:15 pm ET on Thursday, November 26, 1987. This means that if the computer fails at any time after 11:15 pm ET on November 25, it is unlikely to be restarted until after 11:15 pm ET November 26. Non-prime rates will be in effect all day. Please note that DOCLINE® will not be available on Thursday, November 26. The TOXNET® computer system status is always guaranteed with non-prime rates in effect on all holidays. Please see the October 1986, *NLM Technical Bulletin*, Appendix C, for the complete 1987 holiday schedule.

POISONOUS PLANTS BIBLIOGRAPHY SUBFILE

The Poisonous Plants Bibliography subfile was added to the TOXLINE® database with the 8709 (EM) update on September 19, 1987. This subfile, which has the acronym "PPBIB" in the Secondary Source Identification (SI) field, contains 2,508 citations on the toxic effects of poisonous plants as reported in the literature prior to 1976. Literature on this topic published after 1976 is covered by other TOXLINE subfiles, so no updates are anticipated. More detailed information about this new subfile will be provided in a forthcoming *NLM Technical Bulletin* article.

1987 BIOETHICS THESAURUS AVAILABLE

The 1987 edition of the *Bioethics Thesaurus*, the controlled vocabulary of keywords used for indexing and searching BIOETHICSLINE®, is now available. It can be purchased for $5.00 (prepaid, checks made out to the Kennedy Institute of Ethics) from the BIOETHICS Information Retrieval Project, Kennedy Institute of Ethics, Georgetown University, Washington, DC 20057. Terms from this thesaurus are searchable in the KW (Keyword) field of the online database.

TUMOR KEY SUPPLEMENT PRICES

The *Technical Notes: MEDLARS Indexing Instructions, Tumor Key Supplement* prices are incorrect as listed on page 13 of the May 1987 NLM Publications List. The correct prices for this publication are $8.50 ($17.00 foreign). The microfiche prices are correct.

CLINPROT® INDEX TERM LISTING

The CLINPROT Index Term listing for September is now available. It may be requested by writing to the MEDLARS Management Section. Please include a self-addressed label with your request. No return postage is necessary.

DATABASE UPDATE SCHEDULE

Appendix B is the Database Update Schedule for 1988. This list includes the schedule for updating the following databases: MEDLINE/SDILINE, HEALTH, POPLINE, CANCERLIT, and TOXLINE/TOXLIT. The list is printed on one side so it can be removed from the issue and posted near the searcher's terminal.

HOLIDAY SCHEDULE 1988

Appendix C is the NLM computer holiday schedule for 1988. The list is printed on one side so it can be removed from the issue and posted near the searcher's terminal.

PHONES LIST

Enclosed with this issue of the *NLM Technical Bulletin* is an updated list of telephone numbers which can be used to access the NLM computers.

YEAR-END PROCESSING

The 1988 MEDLINE and HEALTH files are expected to be available online with January 1988 data on Monday, December 14, 1987. At that time, all searches using MeSH must conform to the *Medical Subject Headings, 1988*. (Please see also the following Technical Note on the availability of CANCERLIT with 1988 MeSH vocabulary.) Changes to the MeSH vocabulary for 1988 are reflected in the various lists contained in the preface to the *Medical Subject Headings--Annotated Alphabetic List, 1988*. This publication has been available from the National Technical Information Service since the end of September; ordering information was given in the September 1987 *NLM Technical Bulletin*, p. 4. Please note that the Introduction has been revised and the pages numbered following the convention of I-1, I-2, etc. rather than Roman numerals for easier reference.

When using these lists, please note that:

1) Three of the four 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 1987 MeSH. They do not include new forms of existing headings; these appear in the list titled, "Replaced Medical Subject Headings with Replaced-By Headings."

2) Replaced or deleted headings in the list, "Replaced Medical Subject Headings with Replaced-by Headings" followed by the phrase "see reference" may still be used as search terms. Those terms not indicated as a "see reference" may not be used as search terms and must be deleted from all stored and/or saved searches. Terms designated as see references may remain in any stored and/or saved searches. This list is new in format for 1988 and is a merged continuation of two previous lists titled "New Medical Subject Headings Replacing Deleted Headings" and "Deleted Medical Subject Headings with Replaced-by Headings".

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 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 now restricted within Categories A and B for use with those MeSH headings in Subcategories A1-A10, A13-A16, B1-B2, and B5-B6.

4) The list of tree number changes is included as part of the *Medical Subject Headings--Tree Structures, 1988*. Although it is recommended that the MeSH 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 of changes may be used to validate tree numbers used in previous searches, especially stored or saved searches.

AUTOMATIC SDIS ON SDILINE/HEALTH

(Please see also the following Technical Note for information on CANCERLIT SDIs.)

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 1988 vocabulary changes must be deleted and re-stored by Thursday, December 3, 1987 in order to receive correct retrieval. The January (8801 (EM)) SDILINE SDIs will be processed beginning on or about December 4, 1987. To facilitate review of stored searches, searchers are able to execute their STORESEARCHes online between November 16, 1987 and December 4, 1987. During this time, the December 1987 SDILINE will contain 1988 MeSH terms 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 1988 vocabulary terms on citations during this time period.

In order to check correct operation of stored searches during this designated period, searchers should first record the number of citations received for each stored search executed by NLM through the Automatic SDI Program against the December 1987 SDILINE (available October 31) with the 1987 vocabulary. (The number of citations retrieved is listed on the front of each SDI printout received. The name of the stored search is the title of the printout.) Beginning November 16, 1987, searchers should execute online each SDILINE stored search against the December SDILINE, which will contain the same number of citations but will then reflect 1988 MeSH vocabulary. (Stored searches may be executed in the same manner as saved searches during this period, i.e., by inputting the stored search name online qualified by (SN). Be sure you are connected to SDILINE.) If the number of citations (i.e., postings) retrieved is not equal to the number received in the December 1987 SDILINE printouts with 1987 vocabulary, searchers may assume the stored search has been affected by a 1988 vocabulary change. Searchers should then display the strategy (use the command DISPLAY with the stored search name) and check the terms against the lists in front of the 1988 MeSH. Tree numbers should be checked in the 1988 MeSH Tree Structures; CAS Registry Numbers should be checked in the online MESH VOCABULARY FILE®. Remember to check the list of headings new for 1988; some of these new MeSH headings may be pertinent to the search strategies reviewed.

In summary, the 1987 Year-End Processing schedule is as follows:

October 31, 1987:

December 1987 MEDLINE/SDILINE (8712 (EM)) with 1987 MeSH vocabulary available online.

November 14-15, 1987:

SDILINE unavailable in order to implement this database with 1988 vocabulary.

November 16, 1987:

December 1987 SDILINE with 1988 MeSH terms available online with STORESEARCHes executable online. December SDILINE available through December 11, 1987, but all stored searches used for Automatic SDIs against SDILINE must be corrected and restored by December 3.

December 4, 1987:

SDILINE Automatic SDIs will be processed by NLM against January 1988 (8801 (EM)) data beginning on or about this date. All corrections to strategies must be restored by December 3.

December 10, 1987:

HEALTH and CANCERLIT Automatic SDIs must be corrected and restored by this date.

December 12-13, 1987:

The NLM computer will be unavailable for searching so that the 1988 MEDLINE/SDILINE/HEALTH/CANCERLIT databases and MEDLINE Backfiles may be installed. (The TOXNET computer is unaffected.)

Note: If the installation of the 1988 databases proceeds smoothly, it is possible that the computer will come back up early, that is, on either December 12 or 13, with the 1988 databases ready for searching. These dates are given as guidelines so searching schedules can be planned.

December 14, 1987:

8801 (EM) MEDLINE/SDILINE/HEALTH database updates available online with January 1988 data. The CANCERLIT database updated through 8712 (EM) should also be available online this date. These databases and the MEDLINE Backfiles should then be searched using the 1988 MeSH vocabulary.

December 14, 1987:

HEALTH Automatic SDIs will be processed by NLM against January 1988 (8801 (EM)) data beginning on this

date. Please see following note for information about the processing of CANCERLIT SDIs.

CANCERLIT YEAR-END PROCESSING & AUTOMATIC SDIs

The National Cancer Institute (NCI) and NLM are working together to complete Year-End Processing for CANCERLIT by the same date as MEDLINE/MEDLINE Backfiles/SDILINE and HEALTH. If all goes well, CANCERLIT with 1988 MeSH vocabulary should be available online on Monday, December 14, 1987.

The normal 8712 (EM) update for CANCERLIT will be included in this 1988 version of CANCERLIT that should appear online December 14, 1987. The 8712 (EM) citations will use the 1988 MeSH vocabulary. Therefore, all CANCERLIT Automatic SDIs must be revised for the 1988 MeSH vocabulary and restored by December 10, 1987. The CANCERLIT 8712 (EM) Automatic SDIs will probably be run after the 8801 (EM) Automatic SDIs for SDILINE and HEALTH, starting the week of December 14. (Note: the CANCERLIT EM tag is always one month behind the SDILINE and HEALTH EM tag.)

Additional Changes

The CANCERGRAM Identifier (CG) field will be updated during the Year-End Processing of CANCERLIT. Remember, this field is updated only on an annual basis.

YEAR-END PROCESSING OF TITLE ABBREVIATIONS

Over the years, discrepancies have occurred between journal title abbreviations as cited in MEDLINE and the corresponding indexing control records in SERLINE. NLM has identified these problem areas and will continue to make appropriate corrections to either the SERLINE® or MEDLINE records this fall as part of Year-End Processing. For the most part, it is the oldest MEDLINE data that are affected. Making the SERLINE and MEDLINE journal title abbreviations agree will help interlibrary loan procedures and further improve the quality of MEDLINE data.

1988 MESH VOCABULARY AND DATABASES

The MEDLINE, MEDLINE Backfiles, SDILINE, and HEALTH files will be available on December 14, 1987 with 1988 MeSH terms. If all goes according to schedule, CANCERLIT is also expected to be available on this date with 1988 MeSH terms. Other files using MeSH vocabulary (i.e., CATLINE®, AVLINE®, BIOETHICS, POPLINE, and TOXLINE) will be maintained for 1988 vocabulary at later dates. Please watch future issues of the *NLM Technical Bulletin* and the online NEWS for announcements. Searches stored for the Automatic SDI program for CATLINE, AVLINE, or POPLINE should not be revised for 1988 vocabulary at this time.

JANUARY 1988 SDILINE AUTOMATIC SDIS DELAYED DUE TO YEAR-END PROCESSING; FEBRUARY 1988 SDIS TO BE RUN EARLY

The 8801 (EM) SDILINE Automatic SDIs for January 1988 will be run beginning December 4 rather than late November. However, please note that the 1988 MEDLINE, MEDLINE Backfiles, and SDILINE will not be made available online until Monday, December 14, 1987.

The 8802 (EM) SDILINE Automatic SDIs for February 1988 will be run one week early -- over the weekend of December 18, 1987 -- and will be mailed during the following week. Therefore, you will receive two Automatic SDILINE mailings (8801 and 8802) in December.

Billing for Automatic SDIs on SDILINE, November/December 1987.

Because of the two updates of SDILINE in the month of December 1987 (8801 (EM) and 8802 (EM)), participants in the Automatic SDI program should expect charges for two sets of SDILINE Automatic SDIs on their December invoices. No SDILINE Automatic SDIs will be run in November 1987. Participants in the Automatic SDI program should expect no charges for SDILINE Automatic SDIs on their November invoices.

AVAILABLE PRE-EXPLOSIONS

Appendix A is a list of available Pre-explosions for 1988. The list is printed on one side so it can be removed from the issue and posted near the searcher's terminal. No new Pre-explosions were added for 1988.

The Pre-explosions are listed on pages I-121 and I-122 of the *Medical Subject Headings--Annotated Alphabetic List, 1988*. Pre-exploded terms are indicated by a black dot (●) next to the heading in the body of the 1988 alphabetic *MeSH* and the *Tree Structures*. When the form of the Pre-explosion name varies from the corresponding MeSH term, the actual Pre-explosion name form is provided in the annotation for the heading in the *Annotated Alphabetic MeSH*.

Please access **FILE INFORM** *and type* **NEWS** *to see the most recent news items online!*

TOXLINE - Free for a Day!

TOXLINE, the royalty-free bibliographic file covering the adverse effects of chemicals and physical agents on living systems, has been available at the same low cost as MEDLINE since its regeneration this summer. At that time, the toxicology literature files at NLM were reconfigured in a new way in order to separate the non-royalty sources from those requiring royalty charges that NLM must pass on to users. Now, users of the toxicology files have a choice: they may perform a search in TOXLINE at a modest price, and then decide if they want to go on to search in the more expensive files from royalty sources. These files, TOXLIT and TOXLIT65, can be searched more efficiently, and thus more economically, if the search strategy has been worked out and even formulated as a SAVESEARCH while the user is in the TOXLINE file.

In order to acquaint users with the new TOXLINE, NLM is offering a special day for free searching of that file. This will be Thursday November 19, 1987. We hope that this opportunity for free exploration in TOXLINE will allow users to see for themselves the scope of coverage of the new file, and to experiment with the use of MeSH searching now available there in conjunction with Text Word searching.

Questions such as the following can be very well answered using TOXLINE:

Is NIH funding any research projects on Navajos living near uranium mine tailings?

What is "loco weed"and what does it do?

What has been published on the health effects of fallout from the Chernobyl accident?

Many searchers would think of MEDLINE first, but for adverse effects information, TOXLINE (and TOXLIT) may be more on target. Much of TOXLINE (76%) is drawn from MEDLINE, yet eleven other sources of information are also used to build TOXLINE. One of these is the toxicology-related portion of the CRISP database, which describes research projects funded by the National Institutes of Health (NIH). Another source of data for TOXLINE is the CIS file of the International Labour Office in Geneva, rich in occupational safety and health information.

WHAT'S THE CATCH?

First, TOXLINE is free for only one day, November 19. Second, offline prints are not free; they are $.25 per page, the usual price. Third, TOXLIT and TOXLIT65, the files which contain data from Chemical Abstracts Service (CA), BioSciences Information Service (BIOSIS), and International Pharmaceutical Abstracts (IPA) are available at the usual cost of approximately $121 per connect hour prime time, and $114 per connect hour non-prime time.

HOW DO I GET MORE INFORMATION?

The monthly search hint in the August *NLM Technical Bulletin*, "Searching Techniques for the New TOXLINE and TOXLIT Files," contains the most up-to-date information about the toxicology bibliographic files. Consult it for guidance.

Remember, TOXLINE is the same price as MEDLINE now, except for the free day, November 19! Take advantage of this opportunity to examine the new TOXLINE file.

COMING ATTRACTIONS FOR THE 1988 SYSTEM - DECEMBER 14, 1987

These are brief announcements of changes and features expected for MEDLARS on December 14, 1987. More details will appear in forthcoming issues of the *NLM Technical Bulletin*.

MEDLINE BACKFILE RECONFIGURATION - 1988

The three oldest MEDLINE Backfiles, (MED66, MED71, MED75) will be merged into two new backfiles, MED66 and MED72. These files were pulled by year of publication. MED66 will cover 1966 to 1971 while MED72 will cover 1972 to 1976. However, the NLM Gaps Project is still active so older citations will also be found in the current MEDLINE file. Effective December 14, 1987 MEDLINE and its Backfiles with their primary dates of coverage will be as follows:

Primary File	Aliases	Coverage
MEDLINE	MED	1986-
MED83	M83,BACK83,B83	1983-1985
MED80	M80,BACK80,B80	1980-1982
MED77	M77,BACK77,B77	1977-1979
MED72	M72,BACK72,B72	1972-1976
MED66	M66,BACK66,B66	1966-1971

The old file names, MED71 and MED75, will be kept as aliases so that GRATEFUL MED™ Version 2.0 will still function. Version 3.0 (which will incorporate these name changes) is expected to be released in December 1987.

Next year NLM is planning to rearrange the citations in MED77 through MEDLINE. For the 1989 system, NLM expects to have MEDLINE and its backfiles configured by year of publication with citations in their appropriate date of publication range regardless of when the article was actually indexed.

MEDLINE DATA TO INCLUDE ADDRESS FIELD

Beginning with the 8801 Entry Month (EM), the Address (AD) field formerly available for only SDILINE searching, will be retained in MEDLINE and print in the PRT DL command. The AD field contains the institutional affiliation of the principal author of the article (see Manual, 7.3.3). This will not impact upon any of the print formats available in the Automatic SDI Program. When the Health Planning and Administration database is updated, the MEDLINE derived citations (8801 EM forward) will carry the Address (AD) field as well. The AD field in MEDLINE and HEALTH will not be directly searchable, but can be accessed via STRINGSEARCH as in SDILINE.

NEW NURSING JOURNAL SUBSET TAG IN MEDLINE

A new valid value for the MEDLINE Journal Subset (SB) field has been created to tag all citations from nursing journals regardless of the journal status (IM or Special List). The new value is N in the SB field. This change is retrospective. To limit searches to nursing journals in MEDLINE and the Backfiles, effective with the 1988 system, use the tag N (SB). SERLINE also carries this new N (SB) tag.

1988 CHANGES TO ANNOTATIONS FOR CATALOGERS

With the 1988 system update to CATLINE, the Cataloging Section has decided to follow the indexing rule regarding use of the specialty and disease headings with form qualifiers. In the past, whenever a cataloger cataloged one of the printed forms of materials listed in the Appendix of MeSH, the instructions indicated that the specialty heading should be used instead of a disease or organ heading. For example, a cataloger would subject analyze an atlas of eye diseases as OPHTHALMOLOGY/atlases following the instructions at EYE DISEASES which read: CATALOG:form qualif = OPHTHALMOLOGY/form whereas an indexer would use the subject heading EYE DISEASES. Effective with 1988 cataloging, catalogers are permitted to use form subheadings with headings other than specialty terms. For example, EYE DISEASES/atlases is permitted. All annotations referring to the use of form qualifiers thus have been

changed. CATLINE records entered before December 1987, will not be maintained, so searchers should continue to OR terms under the specialty heading with the disease or organ heading. NOTE: AVLINE records always were cataloged using the indexing annotations for specialty and diseases and did not follow the cataloging "-ology" rule.

CHANGES IN 1988 INDEXING POLICY & VOCABULARY

Once each year, NLM adds a number of MeSH headings to its list of more than 15,000 controlled vocabulary terms so that our indexing will better reflect the current biomedical literature. In addition to the new MeSH headings for 1988, a number of major changes have been made in indexing policy. These changes will be described in detail in the special update supplement of a forthcoming *NLM Technical Bulletin*, probably the January issue. A preview is provided below primarily to assist users who will be revising their STORESEARCH strategies in SDILINE between Nov. 16 and Dec. 3. These changes are not effective in the regular system until mid-December of this year.

NEW SUBHEADING - PHARMACOKINETICS - PK

A new subheading, /pharmacokinetics, is being added with 1988 indexing to correspond with the new major descriptor PHARMACOKINETICS. The subheading /pharmacokinetics is abbreviated PK and is for use with the D category (Chemicals and Drugs) MeSH headings only. The scope note found in the *Annotated Alphabetic List, 1988*, describes it as follows: Used for the mechanism, dynamics and kinetics of exogenous chemical and drug absorption, biotransformation, distribution, release, transport, uptake, and elimination as a function of dosage, extent and rate of metabolic processes.

For further information please refer to the *Annotated Alphabetic List, 1988*, and future articles in this publication.

SUBHEADING NAME CHANGE

The subheading /pharmacodynamics will be renamed to /pharmacology in an effort to remove any confusion as to its usage. /pharmacology will retain the searching abbreviation, PD, and should continue to be used to retrieve citations to articles discussing the effects of drugs and chemicals. The scope note describes the subheading as follows: Used with drugs and exogenously administered chemical substances for their actions on tissues and organisms; includes effects upon metabolism, acceleration or inhibition of biological processes, and the mechanisms of action.

NEW NLM POLICY FOR REVIEW ARTICLES

As announced at the Medical Library Association Annual Meeting in May, 1987, the concept of REVIEW articles has been reexamined in an effort to index articles more specifically, and provide searchers with a variety of ways to find review information. Beginning with 1988 indexing, the following additions have been made to the MeSH hierarchy:

REVIEW LITERATURE
  CONSENSUS DEVELOPMENT CONFERENCES
  REVIEW, ACADEMIC
  REVIEW, MULTICASE
  REVIEW OF REPORTED CASES
  REVIEW, TUTORIAL

The following "see references" may also be used in searching:

REVIEW, EPIDEMIOLOGIC see REVIEW, MULTICASE
REVIEW, SUBJECT see REVIEW, TUTORIAL
STATE OF THE ART REVIEW see REVIEW LITERATURE

Articles indexed with any of the REVIEW LITERATURE MeSH headings will also be indexed with the citation type, REVIEW. Using the stragegy 'AND REVIEW' will continue to retrieve all review articles. But now if you want only a particular type of review article it will be possible to limit using the specific heading.

In addition the RF (Number of References) field will be added to all standard PRT commands for MEDLINE and HEALTH so that these review articles can be easily identified.

For further information, see the 1988 MeSH tools and future articles in this publication.

CHANGE FOR INDEXING OF PUERPERIUM AND ITS INDENTIONS

Starting with 1988 indexing, an article indexed with PUERPERIUM; LACTATION; LACTATION DISORDERS; MILK EJECTION and LACTATION, PROLONGED will not automatically receive the PREGNANCY check tag. These headings do not necessarily mean that a pregnant woman is involved.

SMOKING - MORE SUBHEADINGS ALLOWED

Twenty subheadings have been "extended" and may now be used with the MeSH heading SMOKING. These are: /adverse effects, /blood, /cerebrospinal fluid, /drug therapy, /economics, /ethnology, /genetics, /history, /immunology, /legislation & jurisprudence, /metabolism, /mortality, /occurrence, /pathology, /physiopathology, /prevention & control, /psychology, /therapy, /trends, and /urine.

NUCLEIC ACIDS - TWO MORE SUBHEADINGS ALLOWED

Beginning with 1988 indexing, the subheadings /drug effects and /ultrastructure have also been "extended" and will be permitted with the MeSH heading NUCLEIC ACIDS and all its indentions.

NEW RUBRIC - [CLASSICAL ARTICLE]

In addition to the rubrics [letter], [editorial], [news], [clinical conference], and [interview], a new rubric will be added with 1988 indexing, [classical article]. NLM rubrics are explanatory words added to the title of an item that describe the form of an article. The new NLM rubric will replace the publishers' rubrics at the start of the title that identified these reprinted articles of a classical nature. The name of the author of the classic will appear in the Personal Name as Subject (PS) field and biographical check tags will be added as appropriate.

NEW MeSH HEADINGS

Approximately 238 new MeSH headings were added for 1988. To name just a few...BALLOON DILATATION; BILIARY TRACT SURGERY; BISEXUALITY; CAUSE OF DEATH; CHILD CUSTODY; DIAGNOSTIC IMAGING; DRUG CARRIERS; DRUG RESIDUES; DRUGS, CHINESE HERBAL; HAND DEFORMITIES; FOOT DEFORMITIES; INTERLEUKINS; MATERIA MEDICA; LOVASTATIN; MOLECULAR SEQUENCE DATA; PRONATION; SUPINATION; PRODRUGS; PRODUCT LINE MANAGEMENT (see Monthly Search Hint in this issue); RNA, TRANSFER, AMINO ACID-SPECIFIC (each specific transfer RNA also added); SAN FRANCISCO; TUMOR NECROSIS FACTOR; WOMEN'S HEALTH SERVICES.

For the complete list of new MeSH headings with Scope Notes for 1988, please see the *Annotated Alphabetic List, 1988.*

ADDITION OF NUMBER OF REFERENCES (RF) FIELD TO PRINT FORMATS

The Number of References (RF) field will be added to all MEDLINE and HEALTH standard print formats. Number of References are only included, however, with citations to articles indexed with the check tag REVIEW.

HIV SEROPOSITIVITY

Because of the importance of research on AIDS and the HIV virus causing AIDS, indexers requested immediate use of a new term, HIV SEROPOSITIVITY, proposed for 1989. MeSH staff agreed and the indexers shall begin indexing for 1988 pertinent articles on HIV SEROPOSITIVITY.

In addition to the 1988 main heading HIV SEROPOSITIVITY, there are several SEE references also available:

AIDS SEROPOSITIVITY
ANTI-HIV POSITIVE
HIV ANTIBODY POSITIVE
HIV SERONEGATIVITY
HTLV-III SEROPOSITIVITY

The Tree Numbers are C1.539.780.20.452, C2.782.815.483.23.452, and C20.673.483.23.452 - all indented under ACQUIRED IMMUNODEFICIENCY SYNDROME.

Both indexers and searchers will be able to use the short form HIV SEROPOS. Before 1988 the concept was indexed basically under AIDS or HIV with ANTIBODIES, VIRAL added when discussed.

VERSION 2.0

[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated.]

Sometimes I want to restrict my searches to a certain age group. Is there an easy way to do this?

Yes. The MeSH vocabulary includes some terms called CHECK TAGS which our indexers are obligated to use to indicate, among other things, the human age group(s) mentioned in the article. The MeSH CHECK TAGS for human age groups are:

INFANT, NEWBORN (birth to 1 month)
INFANT (1 to 23 months)
CHILD, PRESCHOOL (2 to 5 years)
CHILD (6 to 12 years)
ADOLESCENCE (13 to 18 years)
ADULT (19 to 44 years)
MIDDLE AGE (45 to 64 years)
AGED (65+)*

*An article discussing individuals over 80 will also be indexed with AGED, 80 AND OVER.

You can select one or more of these terms from the display (via the F10 key) whenever it is necessary to restrict your search to a specific age group.

Is it necessary to purchase the MeSH publications that come out each year?

The 1988 MeSH tools (*Annotated Alphabetic List*, and the *Tree Structures*) are now available for purchase from NTIS (see last month's issue for ordering information or call MMS). NLM recommends buying these annual editions so that you will have as much information as possible about MeSH vocabulary when planning your searches.

If you search to get a few articles to familiarize yourself with the current literature and are happy selecting terms from the F10 display then you may not need these tools.

On the other hand, if you are the type who likes to know the specifics about something, you would probably like to read the annotations provided in the *Annotated Alphabetic List*. The annotations are often helpful to searchers, although they are usually directed at indexers. (Indexers assign the MeSH headings to each citation.) For example the annotation with the term, NERVOUS SYSTEM NEOPLASMS, reads, *...do not confuse with NEOPLASMS, NERVOUS TISSUE (neopl composed of nerve tissue)*. Annotations will also include the history of a term; the first year the MeSH term was used for indexing and clues for retrieving citations indexed before that year. For example, the year the term LYME DISEASE became a MeSH heading is noted as 1985 and the annotation reads, *...search ARTHRITIS, INFECTIOUS 1979-84;* - an important consideration if you plan to do a backfile search.

The *MeSH Tree Structures* is a useful tool for those who like to get a feel for where a term fits in the entire hierarchy of terms. The *Tree Structures* will also tell you what terms are indented under a broader term in order to see how the EXPLODE capability will increase retrieval.

There are many more reasons why these tools can be helpful. If you can borrow a set to examine (medical libraries usually have a set), you may get a better feel for the usefulness of the MeSH tools.

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p.3.
COMING ATTRACTIONS FOR THE 1988 SYSTEM - DECEMBER 14, 1987, p.9.

DIRLINE® Update and Changes

The DIRLINE file has been updated and has a total of 15,629 records. New data have been added from the National Referral Center of the Library of Congress, the OHIC (Office of Disease Prevention and Health Promotion Health Information Center), and the American Association of Poison Control Centers. The data from DRACON (Drug Abuse Communications Network) have been retained but not updated. Users are reminded to search for specific organizations by using the NW qualifier (Name Words) and for subjects using the TW qualifier (Text Words).

During the September update to DIRLINE, the following changes were made:

1. The records from the National Referral Center (NRC) now utilize a new a data element called the States (STS) field. This field is for the postal abbreviations of State names. Until the file can be made uniform, searchers should use the following strategy to search for a State's name:

(STS) CA or CALIFORNIA (CY)

NOTE: Because the postal code for Oregon, OR, is also a Boolean operator, it cannot be searched directly. Instead this procedure is recommended:

SS 1 /C?
USER:
O# (STS) OR OREGON (CY)

PROG:
MM (O#) (3)
1 OH (STS)
2 OK (STS)
3 OR (STS)
SPECIFY NUMBERS, ALL, OR, NONE-

USER:
3
...

2. The Address (AD) field in the Office of Disease Prevention and Health Promotion Health Information Center (OHIC) file is now formatted like a mailing label, instead of "wrapping" into one long field. This will aid the subfile producer in record maintenance.

3. The Secondary Source Identification (SI) field in the NRC records has been changed to match the format of the other subfiles' records.

The old format was:

NRC/69/000812

The new format is:

NRC/00812

Searchers should use the new format, since the old one has been deleted.

4. Date searching has also changed. The Last Revision (LR) field format can vary from four to six characters in the format YYMMDD.

To search on LRs it is best to truncate after the first four digits.

8701: (DA)

Likewise, the Entry Month (EM) field can vary from 4 to 6 characters. To search on EMs, truncate after the first four digits.

8701: (EM)

5. Telephone numbers are found either in the Telephone Number (TEL) field or in the Institutional Contact (IC) field. Neither field is searchable, but both print with the standard, full, and detailed print commands.

Monthly Search Hint:

Online Searching of New Concepts - Product Line Management

Patricia Pinkowski
Anne Fox Kiger
American Hospital Association Resource Center

As the health care delivery system changes, the terminology that describes it also changes. Often the changes are so rapid that lag time occurs between the use of new concepts and their consistent appearance in controlled vocabulary systems. One concept that has entered the health care delivery literature suddenly is product line management. Product line management is a term derived from manufacturing firm management. While fairly new in health care, the term initially appeared about 15 years ago and is generally credited to General Electric. Product line management is a management system that builds a market position through particular product lines or services. Each product line is a strategic business unit that services distinct segments of the population with clearly articulated, individualized management strategies.

The hospital can be viewed as a service enterprise whose primary function is the provision of diagnostic and therapeutic medical services. Hospital products are the specific sets of services provided to individual patients. Within the hospital, product line management may be defined as the organizational structure, management control system, and delivery strategies for health care services structured around case types or major clinical services.

Online searching is the most effective way to locate citations to new topics containing a catchword or phrase. Even when specific controlled vocabulary terminology does not exist, a subject search can be performed using terms for the broader topic as an initial step. This often helps to reduce the number of false drops. The appropriate Text Words can then be combined with the controlled vocabulary retrieval. STRINGSEARCHing the resulting set is helpful for correct word order and adjacency.

Since this is a management topic, the most appropriate database is Health Planning and Administration (File HEALTH). Figure 1 shows the Text Words being entered. Ninety-one citations were retrieved. Since product and line usually appear adjacent to each other, a STRINGSEARCH of titles and abstracts can be used further to refine the retrieval to sixty-three articles. The truncation symbol (#) between the words helps retrieve hyphenated forms of the phrase. An examination of the SI field in the retrieved articles shows that fifteen of them originated in MEDLINE. Figure 1 shows only the titles. The remaining 48 are unique to HEALTH. An initial subject search using controlled vocabulary was not needed because this particular combination of terms is fairly specific in HEALTH.

This strategy retrieves an acceptable set of appropriate citations. The following strategy provides a more exhaustive search. The subject heading used most frequently by indexers on the "product line" articles is MARKETING OF HEALTH SERVICES. In Figure 2 this subject heading is combined with the Text Word "product." The citations already found are removed. The titles of the remaining articles show some possible hits. Since 90 percent of the citations in HEALTH are in English, it is usually not necessary to limit retrieval to English only.

For comparison of the files Figure 3 shows a product line search executed in MEDLINE. The Text Word search retrieves too many articles to attempt a STRINGSEARCH so the subject heading MARKETING OF HEALTH SERVICES is included. This retrieves a few appropriate articles. The other articles retrieved by "product" and "line" deal with cell lines and genetic research.

The term PRODUCT LINE MANAGEMENT will be a new Medical Subject Heading in 1988.

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

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

SS 1 /C?
USER:
(tw) product and line#

PROG:
MM (LINE#) (5)
             1  LINE (TW)
             2  LINED (TW)
             3  LINEN (TW)
             4  LINER (TW)
             5  LINES (TW) SPECIFY NUMBERS, ALL, OR, NONE-

USER:
1,5

PROG:
SS (1) PSTG (91)

SS 2 /C?
USER:
ts (ti) : product#line: or : product#line: (ab)

PROG:
SS (2) PSTG (63)

SS 3 /C?
USER:
prt ti 5
PROG:

1
TI  - Choose your weapon. Picking a product line management system
      that produces.

2
TI  - Product line management needs careful implementation [news]

3
TI  - Suppliers merge product lines [news]

4
TI  - Nursing shortage requires lasting solution, not a quick fix.

5
TI  - Marketing. Hospitals consider product line management
      techniques to better meet consumers' needs.
```

Figure 1

```
SS 3 /C?
USER:
marketing of health services

PROG:
SS (3) PSTG (2467)

SS 4 /C?
USER:
3 and product (tw)

PROG:
SS (4) PSTG (85)

SS 5 /C?
USER:
4 and not 2

PROG:
SS (5) PSTG (56)

SS 6 /C?
USER:
prt ti 5
PROG:

1
TI  - The liabilities and consequences of medical device development.

2
TI  - Marketing. Product developers and providers view the benefits
      of franchises and licenses.

3
TI  - Introducing a new mental health product--marketing disaster or
      dream?

4
TI  - Comparing packaged good and industrial product analogues for
      hospital marketing strategies.

5
TI  - Competitive conditions and hospital strategies:  a Memphis case
      study.
```

Figure 2

```
SS 6 /C?
USER:
file medline

PROG:
YOU ARE NOW CONNECTED TO THE MEDLINE (1985 FORWARD) FILE.

SS 1 /C?
USER:
(tw) product and line#
PROG:
MM (LINE#) (7)
              1  LINE (TW)
              2  LINEA (TW)
              3  LINED (TW)
              4  LINEN (TW)
              5  LINER (TW)
              6  LINES (TW)
              7  LINE1 (TW)
SPECIFY NUMBERS, ALL, OR, NONE-

USER:
1,6

PROG:
SS (1) PSTG (567)

SS 2 /C?
USER:
1 and marketing of health services

PROG:
SS (2) PSTG (6)

SS 3 /C?
USER:
prt compr

PROG:

1
UI  - 86223205
AU  - MacStravic RS
TI  - Product-line administration in hospitals.
SO  - Health Care Manage Rev 1986 Spring;11(2):35-43

2
UI  - 86100488
AU  - Tanner DJ
TI  - Marketing considerations in home health care.
SO  - Am J Hosp Pharm 1985 Dec;42(12):2695-701

3
UI  - 86066026
AU  - Anderson RA
TI  - Products and product-line management in nursing.
SO  - Nurs Adm Q 1985 Fall;10(1):65-72
```

Figure 3

Errata in the 1988 MeSH

Medical Subject Headings -- Annotated Alphabetic List, 1988

The following are changes which should be made in the published MeSH lists to conform with the computer file entries.

p. I-23 insert:

HIV SEROPOSITIVITY
C1.539.780.20.452 C2.782.815.483.23.452
C20.673.483.23.452
Development of neutralizing antibodies in individuals who have been exposed to the human immunodeficiency virus (HIV/HTLV-III/LAV).

note category; for HIV-positive or HIV-negative persons; do not use /chem ind /embryol /diet ther /etiol /prev /radiother /surg; /diag /immunol permitted but use caution; DF: HIV SEROPOS

88

X AIDS Seropositivity
X Anti-HIV Positive
X HIV Antibody Positive
X HIV Seronegativity
X HTLV-III Seronegativity
X HTLV-III Seropositivity

p. I-38 under C1, insert:
HIV SEROPOSITIVITY
under C2, insert:
HIV SEROPOSITIVITY
under C20, insert:
HIV SEROPOSITIVITY

p. I-45 CARDIOPLEGIC SOLUTIONS

Change: YPERTONIC SOLUTIONS (66-87)
To: HYPERTONIC SOLUTIONS (66-87)

Change: YPOTONIC SOLUTIONS (66-87)
To: HYPOTONIC SOLUTIONS (66-87)

p. I-50
insert:
HIV SEROPOSITIVITY Acquired Immunodeficiency Syndrome (84-87)
Antibodies, Viral (83-87)
HTLV-III (87)
Human T-Cell Leukemia Virus (84-86)

p. I-51 LOVASTATIN
Indent line beginning with REDUCTASES, and append:
(77-87)

p. I-63 /familial & genetic Delete: F1.145.466.753
/genetics Add : F1.145.466.753

p. I-68	/adverse effects	Add : G3
		Add : NUCLEIC ACIDS+
	/adverse effects	Change: SMOKING
		To: SMOKING+
	/blood	Change: SMOKING
		To: SMOKING+
	/cerebrospinal fluid	Change: SMOKING
		To: SMOKING+
	/drug therapy	Change: SMOKING
		To: SMOKING+
	/economics	Change: SMOKING
		To: SMOKING+
p. I-69		
	/ethnology	Change: SMOKING
		To: SMOKING+
	/familial & genetic	Delete: SMOKING+
	/genetics	Add : SMOKING+
	/immunology	Change: SMOKING
		To: SMOKING+
	/legislation & jurisprudence	Change: SMOKING
		To: SMOKING+
	/metabolism	Change: SMOKING
		To: SMOKING+
	/mortality	Change: SMOKING
		To: SMOKING+
	/occurrence	Change: SMOKING
		To: SMOKING+
	/pathology	Change: SMOKING
		To: SMOKING+
	/pharmacology	Change: pharm
		to: pharmacol
p. I-70	/physiopathology	Change: SMOKING
		To: SMOKING+
	/psychology	Change: SMOKING
		To: SMOKING+
	/therapy	Change: SMOKING
		To: SMOKING+
	/trends	Change: SMOKING
		To: SMOKING+
	/ultrastructure	Add : NUCLEIC ACIDS+
	/urine	Change: SMOKING
		To: SMOKING+

p. I-73 F1 and F2, /ethnol — Change : 88
to : 87
F1 and F2, /familial — Delete entry
F1 and F2 — Add : 88 GE /genet
- only SMOKING+

p. 22 insert:
AIDS Seropositivity see HIV SEROPOSITIVITY

p. 36 AMINOGLYCOSIDES
Change: [current note]
To: do not use /analogs

p. 55 insert:
Anti-HIV Positive see HIV SEROPOSITIVITY

p. 290 /familial & genetic — Delete: F1.145.466.753

p. 326 /genetics — Add: F1.145.466.753

p. 328 immediately before GESTURES insert entry for
GESTRINONE, which should be deleted at p. 661

p. 373 following HIV Infection, insert the following:

HIV SEROPOSITIVITY
C1.539.780.20.452 C2.782.815.483.23.452
C20.673.483.23.452

note category; for HIV-positive or HIV-negative persons;
do not use /chem ind /embryol /diet ther /etiol /prev
/radiother /surg; /diag /immunol permitted but use
caution; DF: HIV SEROPOS

88

X AIDS Seropositivity
X Anti-HIV Positive
X HIV Antibody Positive
X HIV Seronegativity
X HTLV-III Seronegativity
X HTLV-III Seropositivity

p. 373 insert:
HIV Antibody Positive see HIV SEROPOSITIVITY
HIV Seronegativity see HIV SEROPOSITIVITY

p. 381 insert:
HTLV-III Seronegativity see HIV SEROPOSITIVITY
HTLV-III Seropositivity see HIV SEROPOSITIVITY

p. 403	IMMUNOHISTOCHEMISTRY	Change: /immunol to: /diag or /metab
p. 416	INTERFERONS	Add: coord IM with disease /ther (IM), not /drug ther
p. 417	INTERLEUKIN 1 INTERLEUKIN 2 INTERLEUKIN 3 INTERLEUKINS	Change: /pharm to: /pharmacokin /pharmacol
p. 435	KINETICS	Change: drug /metab (IM) + KINETICS (NIM): Bull 102 (Oct 77) to: drug /pharmacokin
p. 468	MAGNETIC RESONANCE IMAGING	Delete: /diag use
p. 473	MARIJUANA SMOKING	Change: only /drug eff /rad eff to:

qualif permitted: /adv eff /blood-csf-urine /drug ther /econ /ethnol /genet /hist /immunol /legis /metab /mortal /occur /pathol /physiopathol /prev /psychol /ther /trends

p. 546	NUCLEIC ACIDS	Add : /drug eff /ultrastruct permitted
p. 613	PLANTS, MEDICINAL	Change: MEDICINE, CHINESE TRADITIONAL (IM) to: MEDICINE, CHINESE TRADITIONAL (NIM); TN J Delete: & if an extract of the plant add PLANT EXTRACTS (NIM): TN 247
p. 661	delete entry for GESTRINONE	
p. 692	move entry for RO 4-1284 from current location to place immediately before RO 4-4602 immediately before new entry for RO 4-1284 insert: RNASE T1 see GUANYLORIBONUCLEASE	
p. 723	SODIUM, DIETARY	Change: /pharm to: /pharmacol
p. 796	move entry for TRNA(M)MET from location before TRNAALA to place immediately after TRNAMET	
p. 800	TUMOR CELLS, CULTURED	Change: usually IM to: NIM

Medical Subject Headings -- Tree Structures, 1988

p. 59 insert:
HIV SEROPOSITIVITY
C1.539.780.20.452
C2.782.815.483.23.452
C20.673.483.23.452

p. 64 insert:
HIV SEROPOSITIVITY
C2.782.815.483.23.452
C1.539.780.20.452
C20.673.483.23.452

p. 131 insert:
HIV SEROPOSITIVITY
C20.673.483.23.452
C1.539.780.20.452
C2.782.815.483.23.452

p. 210 D4.615.799.306.400.350
Change: [existing entry]
To: 7,8-DIHYDRO-7,8-DIHYDROXYBENZO(A)PYRENE 9,10-OXIDE

p. 332 D26.191.262.280
Change: [existing entry]
To: 7,8-DIHYDRO-7,8-DIHYDROXYBENZO(A)PYRENE 9,10-OXIDE

p.468 Between ROME and TOKYO insert:
SAN FRANCISCO Z1.433.875 Z1.107.567.875.127.780

Serials Update

INDEXED TITLES UPDATE, OCTOBER 1987

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, SEPTEMBER 1987

IDL CANADIAN JOURNAL OF COMMUNITY DENTISTRY
CAN J COMMUNITY DENT
1N1,JAN 1986--
CANADIAN SOCIETY OF PUBLIC HEALTH DENTISTS
SCARBOROUGH CANADA
OFFICIAL PUBLICATION OF THE CANADIAN SOCIETY OF PUBLIC HEALTH DENTISTS.
INDEXING BEGAN WITH 2N2,JUL 1987.
ON ORDER
SR0060956 JC: CJO

HLI HOSPITAL GUEST RELATIONS REPORT
HOSP GUEST RELATIONS REP
1,1986--
ST. ANTHONY HOSPITAL PUBLICATIONS
LOUISVILLE KY UNITED STATES
INDEXING BEGAN WITH V1N1,1986.
ON ORDER
SR0060882 JC: HGR

IM SCANNING MICROSCOPY. SUPPLEMENT
SCANNING MICROSC [SUPPL]
1,1987--
SCANNING MICROSCOPY INTERNATIONAL
CHICAGO UNITED STATES
INDEXING BEGAN WITH SUPPLEMENT 1,1987.
IN PROCESS 0892-953X
SR0060951 JC: SMS
SCANNING MICROSCOPY INTERNATIONAL,P.O. BOX 66507,CHICAGO IL 60666

TITLE CHANGES, SEPTEMBER 1987

IM AMERICAN JOURNAL OF HYPERTENSION
AM J HYPERTENS
4N1,FEB 1988--
ELSEVIER
NEW YORK UNITED STATES
CONTINUES: JOURNAL OF CLINICAL HYPERTENSION.
ON ORDER
SR0060957 JC: AJI

IM CLINICAL OBSTETRICS AND GYNAECOLOGY
CLIN OBSTET GYNAECOL
1N1,MAR 1987--
BAILLIERE TINDALL
LONDON ENGLAND
SPINE TITLE: OBSTETRICS AND GYNAECOLOGY.
CONTINUES IN PART: CLINICS IN OBSTETRICS AND GYNAECOLOGY.
IN PROCESS 0950-3552
SR0060907 JC: DFO

IM CLINICAL RHEUMATOLOGY
CLIN RHEUMATOL
1,1987--
BAILLIERE TINDALL
LONDON ENGLAND
CONTINUES IN PART: CLINICS IN RHEUMATIC DISEASES.
INDEXING BEGAN WITH V1,1987.
ON ORDER 0950-3579
SR0060867 JC: CRY

TITLES NO LONGER INDEXED AS OF SEPTEMBER 1987

HLI AMERICAN ARCHIVES OF REHABILITATION THERAPY
AM ARCH REHABIL THER
1,1953-35,1987
AMERICAN ASSOCIATION FOR REHABILITATION THERAPY
NORTH LITTLE ROCK AR UNITED STATES
W1 AM175 0002-7324
A23130000 JC: 3BB

IM ANNUAL REVIEW OF REHABILITATION
ANNU REV REHABIL
1,1980-5,1986
SPRINGER
NEW YORK UNITED STATES
INDEXING BEGAN WITH V1,1980
W1 AN7797 0197-2251
A54315000 JC: 6E8

IM DENTAL RADIOGRAPHY AND PHOTOGRAPHY
IDL
DENT RADIOGR PHOTOGR
1,1927-57,1985
EASTMAN KODAK CO
ROCHESTER NY UNITED STATES
INDEXING FOR ONLINE FILES BEGAN WITH 38N4,1965.
W1 DE336 0045-9941
D04780000 JC: E1U

IM JOURNAL OF NEUROGENETICS
J NEUROGENET
1N1,SEP 1983-4N6,DEC 1987
ELSEVIER SCIENCE PUBLISHING
AMSTERDAM NETHERLANDS
INDEXING BEGAN WITH V1N1,1983.
W1 JO787F 0167-7063
J31025000 JC: JKE

THE TITLE CHANGE REPORTED FOR BRITISH MEDICAL JOURNAL
(SEE THE FEBRUARY 1987 ISSUE OF THE TECHNICAL BULLETIN)
HAS NOT TAKEN PLACE. THE CURRENT BIBLIOGRAPHIC INFORMATION FOLLOWS.
ONLY THE CLINICAL RESEARCH EDITION IS INDEXED FOR IM.

BRITISH MEDICAL JOURNAL [CLINICAL RESEARCH ED.]
BR MED J [CLIN RES]
282N6257,JAN 3,1981--
BRITISH MEDICAL ASSOCIATION
LONDON ENGLAND
CONTINUES IN PART: BRITISH MEDICAL JOURNAL. CONTENTS IDENTICAL TO BRITISH MEDICAL JOURNAL (PRACTICE OBSERVED ED.) EXCEPT THAT ADVERTISEMENTS ARE GEARED TO CLINICAL RESEARCH AND, FOR 1981-1986, THE SECTION CALLED PRACTICE IS IN MINIPRINT. PUBLISHED ALSO IN A COMPACT EDITION WITHOUT ADVERTISEMENTS.
W1 BR69B 0267-0623
B35885000 JC: B4X

BRITISH MEDICAL JOURNAL [PRACTICE OBSERVED ED.]
BR MED J [PRACT OBS]
282N6257,JAN 3 1981--
BRITISH MEDICAL ASSOCIATION
LONDON ENGLAND
CONTINUES IN PART: BRITISH MEDICAL JOURNAL. CONTENTS IDENTICAL TO BRITISH MEDICAL JOURNAL (CLINICAL RESEARCH ED.) EXCEPT THAT ADVERTISEMENTS ARE GEARED TO GENERAL PRACTICE AND, FOR 1981-1986, THE SECTION ON CLINICAL RESEARCH IS IN MINIPRINT. THIS TITLE IS NOT IN THE NLM COLLECTION.
0267-0631
B35890000 JC:

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Please print or type.

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New Billing Address:

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Telephone: _____

New Administrative/NLM Technical Bulletin Address:

Name: _____

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_____

_____

_____

Telephone: _____

_____
Signature

_____
Printed Name

_____
Date

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

APPENDIX A

PRE-EXPLOSIONS 1988

Pre-Explosion Name (PX)	Tree Number where-Subsumed Terms may be Found
ABNORMALITIES	C16.131
ANTIBIOTICS	D20.85
ANTIBODIES	D24.611.125
BACTERIA	B3
BACTERIAL INFECTIONS	C1.252
BEHAVIOR	F1.145
BEHAVIOR A#D BEHAVIOR MECHANISMS	F1
BEHAVIORIAL A#D MENTAL DISORDERS	F3
BIOCHEM PHENOM METAB	G6
BLOOD PROTEINS	D12.776.124
BRAIN	A8.186.211
CARBOHYDRATES	D9.203
CARDIOVASCULAR AGENTS	D18
CARDIOVASCULAR DISEASES	C14
CARDIOVASCULAR SYSTEM	A7
CELLS	A11
CENTRAL NERVOUS SYSTEM	A8.186
CENTRAL NERVOUS SYSTEM DISEASES	C10.228
CHEMISTRY, ANALYTICAL	E5.196
CIRCULATORY, RESPIRATORY PHYSIOLOGY	G9
DENTISTRY	E6
DIAGNOSIS, LABORATORY	E1.223
DIGESTIVE SYSTEM DISEASES	C6
ENZYMES	D8.586
EQUIPMENT A#D SUPPLIES	E7
GASTROINTESTINAL DISEASES	C6.405
GENETICS	G5
HEALTH FACILITIES	N2.278
HEALTH SERVICES	N2.421
HEART DISEASES	C14.280
HORMONES	D6.472
IMMUNITY	G4.610
IMMUNOLOGIC FACTORS	D24.611
LIPIDS	D10.516
MAMMALS	B2.649
MENTAL DISORDERS	F3.709
METABOLIC DISEASES	C18.452
METALS	D1.552
MISCELLANEOUS TECHNICS	E5
MOUTH A#D TOOTH DISEASES	C7
MUSCULOSKELETAL DISEASES	C5
NEOPLASMS	C4
NERVOUS SYSTEM	A8
NERVOUS SYSTEM DISEASES	C10
NEUROLOGIC MANIFESTATIONS	C10.597
ORGANIZATION A#D ADMINISTRATION	N4.452
PHYSIOLOGY, GENERAL	G7
PROTEINS	D12.776
PSYCHOLOGIC PROCESSES PRINCIPLES	F2
REPRODUCTION, UROGENITAL PHYSIOLOGY	G8
RESPIRATORY TRACT DISEASES	C8
RODENTIA	B2.649.865
SIGNS A#D SYMPTOMS	C23.888
SKIN DISEASES	C17
STEROIDS	D4.808
SURGERY, OPERATIVE	E4
UNITED STATES MC (as a MeSH heading)	Z1.107.567.875
UNITED STATES (as a place of publication)	Z1.107.567.875
VASCULAR DISEASES	C14.907
VERTEBRATE VIRUSES	B4.909
VERTEBRATES	B2
VIRUS DISEASES	C2
VIRUSES	B4
WOUNDS A#D INJURIES	C21.866

Pre-Explosions are searchable only by the Pre-Explosion Name (PX) or *Pre-Explosion Name (PX) and not by the tree number.

APPENDIX B

DATABASE UPDATE SCHEDULE FOR 1988

ENTRY MONTH	UPDATED MEDLINE/ SDILINE AVAILABLE	UPDATED HEALTH AVAILABLE	UPDATED POPLINE AVAILABLE	UPDATED CANCERLIT AVAILABLE	UPDATED TOXLINE AVAILABLE
8801 (EM)	DEC 14	DEC 14	JAN 9	JAN 2	JAN 16
8802 (EM)	JAN 2	JAN 9	FEB 6	JAN 30	FEB 13
8803 (EM)	JAN 30	FEB 6	MAR 12	MAR 5	MAR 19
8804 (EM)	MAR 5	MAR 12	APR 9	APR 2	APR 16
8805 (EM)	APR 2	APR 9	MAY 7	APR 30	MAY 14
8806 (EM)	APR 30	MAY 7	JUN 11	JUN 4	JUN 18
8807 (EM)	JUN 4	JUN 11	JUL 9	JUL 2	JUL 16
8808 (EM)	JUL 2	JUL 9	AUG 13	AUG 6	AUG 20
8809 (EM)	AUG 6	AUG 13	SEP 10	SEP 3	SEP 17
8810 (EM)	SEP 3	SEP 10	OCT 8	OCT 1	OCT 15
8811 (EM)	OCT 1	OCT 8	NOV 12	NOV 5	NOV 19
8812 (EM)	NOV 5	NOV 12	DEC 17	DEC 12	DEC 17

December updates for POPLINE, CANCERLIT, and TOXLINE are subject to change.

APPENDIX C

1988
HOLIDAY SCHEDULE

Listed below is the holiday schedule for calendar year 1988. As was the case last year, the NLM computer is scheduled to be UP on every holiday listed below. However, on some holidays, computer hours are non-guaranteed. A computer status of non-guaranteed means that if the computer goes down, it is unlikely to be restarted until after midnight of the holiday. Specific details on guaranteed versus non-guaranteed hours of operation for each holiday will be published prior to that holiday in the NLM Technical Bulletin. Non-prime rates will be in effect on non-guaranteed holidays and on guaranteed holidays when the MEDLARS Management Service Desk is not staffed.

HOLIDAY	DATE	SYSTEM STATUS
Christmas Day (1987)	Fri, Dec 25	Non-guaranteed*
New Year's Day	Fri, Jan 1	Non-guaranteed*
Martin Luther King's Birthday	Fri, Jan 15	Guaranteed
Martin Luther King's Birthday (observed)	Mon, Jan 18	Guaranteed*
Washington's Birthday (observed)	Mon, Feb 15	Guaranteed*
Washington's Birthday	Mon, Feb 22	Guaranteed
Memorial Day	Mon, May 30	Non-guaranteed*
Independence Day	Mon, Jul 4	Non-guaranteed*
Labor Day	Mon, Sep 5	Non-guaranteed*
Columbus Day (observed)	Mon, Oct 10	Guaranteed*
Columbus Day	Wed, Oct 12	Guaranteed*
Veterans Day	Fri, Nov 11	Guaranteed*
Thanksgiving Day	Thu, Nov 24	Non-guaranteed*
Christmas Day (1988)	Mon, Dec 26	Non-guaranteed*

*Non-prime rates are in effect all day.

The TOXNET computer is up 24 hours a day, 7 days a week, and the system status is always guaranteed. Non-prime rates will be in effect on all holidays.

DOCLINE will be available (non-guaranteed) on all federal holidays except Christmas Day, New Year's Day, Thanksgiving Day, Memorial Day, Independence Day, and Labor Day.

Notice of changes to this schedule and/or temporary changes in hours of operation will also appear in the online NEWS.

☆U.S. G.P.O. 1987-201-787:60008

GRATEFUL MED Users
See page 10

The NLM Technical Bulletin

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No. 223

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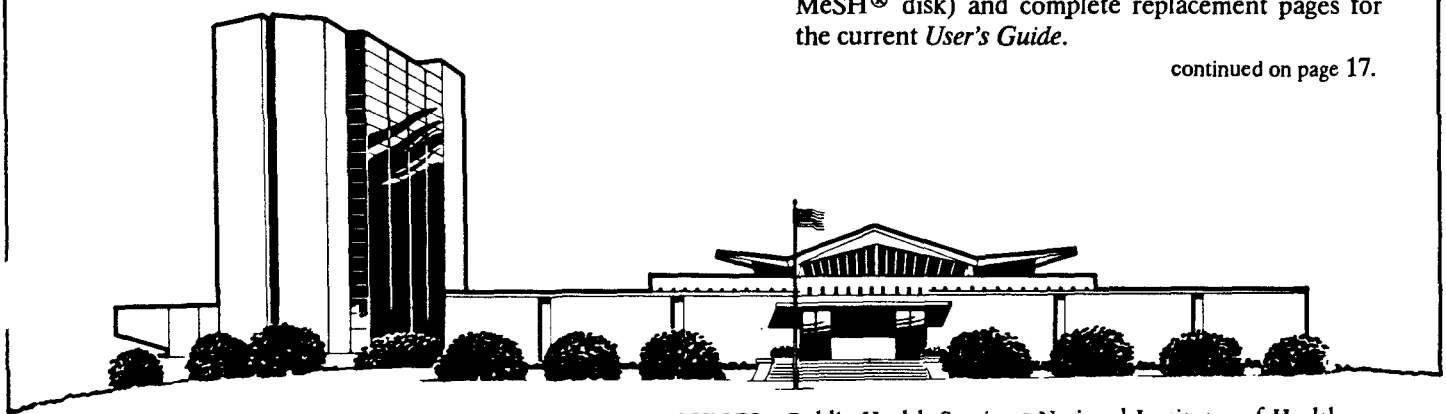
ANNOUNCING: GRATEFUL MED® VERSION 3.0

NLM expects to release GRATEFUL MED, Version 3.0, in late December 1987 or early January 1988. This new version of the program will be mailed, free of charge, to all users who purchased Version 1.0 or 2.0 of the program. The program will be mailed to the address to which the original software program was mailed. For any change of address, please notify the National Technical Information Service (NTIS) immediately. The NTIS Customer Assistance phone number is (703)487-4650. Users may also want to alert their own Purchasing Department as to the expected arrival. Sometimes a central purchasing office no longer has the original order and cannot forward the new version to the right employees.

NLM will use the online news and broadcasts to announce when distribution of the software actually begins.

The mailing for Version 3.0 will consist of 2 new diskettes (a Master Program Disk and a new Master MeSH® disk) and complete replacement pages for the current *User's Guide*.

continued on page 17.



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • National Institutes of Health
National Library of Medicine

MEDLARS DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL COMPUTER				
AVLINE	16,544	THROUGH 1987	20 NOV 87	
BIOETHICS	23,602	JAN 73-1987	10 OCT 87	8710(EM)
CANCERLIT	617,812	JAN 63-NOV 87	31 OCT 87	8711(EM)
CATLINE	622,612	THROUGH 1987	20 NOV 87	
CHEMLINE	770,973		10 OCT 87	8710(EM)
CLINPROT	6,334		19 NOV 87	8711(EM)
DIRLINE	15,629		22 SEP 87	
HEALTH	396,948	JAN 75-DEC 87	07 NOV 87	8712(EM)
HISTLINE	79,808		07 NOV 87	8711(EM)
MEDLINE	791,844	JAN 85-DEC 87	31 OCT 87	8712(EM)
MED83	584,231	JAN 83-DEC 84	29 AUG 87	
MED80	804,712	JAN 80-DEC 82	05 SEP 87	
MED77	774,934	JAN 77-DEC 79	08 AUG 87	
MED75	642,573	JAN 75-DEC 76	16 MAY 87	
MED71	882,889	JAN 71-DEC 74	05 JUN 87	
MED66	954,329	JAN 66-DEC 70	15 JUN 87	
MESH VOC	62,237	1987	23 OCT 87	
NAME AUTH	290,083		14 NOV 87	
PDQ		THRU NOV 87	03 NOV 87	
POPLINE	155,129	1970-NOV 87	07 NOV 87	8711(EM)
RTECS	90,474	THROUGH JUL 87	27 AUG 87	
SDILINE	27,128	DEC 87	31 OCT 87	8712(EM)
SERLINE	69,621	1987	12 NOV 87	
TOXLINE	840,795	PRE-1965-1987	14 NOV 87	8711(EM)
TOXLIT	765,497	1981-1987	14 NOV 87	8711(EM)
TOXLIT65	771,593	1965-1980	01 AUG 87	
TOXNET COMPUTER				
CCRIS	1,165		28 APR 87	
HSDB	4,151		16 NOV 87	

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Bethesda, Maryland 20894

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Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 that is considered most relevant to the item being discussed, e.g., (Manual 4.7.2). Users should keep in mind that the item may pertain to other sections as well.

NLM COMPUTER UNAVAILABLE SATURDAY & SUNDAY DECEMBER 12-13 1987

Reminder: The NLM computer is scheduled to be unavailable for searching on Saturday, December 12, 1987 and Sunday, December 13, 1987. This is so the MEDLINE®/SDILINE®/BACKFILES, HEALTH, CANCERLIT®, CATLINE®, and AVLINE® databases with the 1988 MeSH Vocabulary may be installed on the MEDLARS® system. The TOXNET® computer is unaffected. If the installation of the 1988 databases proceeds smoothly, it is possible that the computer will be operational early, that is on either December 12 or 13, with the 1988 databases ready for searching. These dates are provided only as guidelines so that searching schedules may be more easily planned. Please see the Technical Notes in the October 1987 *NLM Technical Bulletin* for additional information about changes to certain 1988 databases.

CHRISTMAS AND NEW YEAR'S HOLIDAYS

The NLM computer is scheduled to be available for searching on Christmas (Friday, December 25) and New Year's Day (Friday, January 1, 1988). The computer status on these holidays will be non-guaranteed. This means that if the computer goes down it is unlikely to be restarted until after midnight of the holiday. Searchers should please note that non-guaranteed hours of operation are expected to begin early on Christmas Eve and New Year's Eve at 5:00 pm ET. Specific details on guaranteed versus non-guaranteed hours of operation for the NLM computer for each holiday will appear as online NEWS items the week before the holiday. Non-prime rates will be in effect all day on these holidays and the MEDLARS Management Service Desk will not be staffed. Please note that DOCLINE® will not be available on Friday, December 25 and Friday, January 1, 1988. The TOXNET computer will be up on both holidays on a guaranteed basis.

STORESEARCH EXECUTABLE ONLINE

STORESEARCH strategies may now be entered and run online at any time, against any database. It is no longer necessary, as in the past, to only use them through OFFSEARCH. This also includes Automatic SDI current awareness stored searches. Therefore, searchers do not have to wait for a three-week window in December each year to run their "Auto SDI" stored searches and evaluate the effect of changes they may wish to make using new Medical Subject Headings (MeSH) search terms.

Using STORESEARCH is much like SAVESEARCH. Complete details are included in Appendix A, step-by-step, for those who are unfamiliar the feature. We suggest alloting some time to read and study this information. It may be kept with the *Online Services Reference Manual*, 1986. The primary use of STORESEARCH is to eliminate re-keying when running identical searches against several similar databases. The search is keyed once and then can be run against many databases, or can be run repeatedly against the same database at regular update intervals such as in the Automatic SDI Program. However, some "rules" must be observed for the procedure to work properly. The procedure STORESEARCH can save money and time but its peculiarities must be learned.

MEDLINE DATES OF COVERAGE TO CHANGE & MEDLINE BACKFILE RECONFIGURATION

Reminder: Effective December 14, 1987, the date the MEDLINE database and its Backfiles are made available using the 1988 MeSH vocabulary, the dates of coverage for MEDLINE and MED83 will change also. MEDLINE will cover journals published primarily during 1986 to the present. Its first Backfile, MED83, will cover primarily 1983 through 1985. Also, the three oldest MEDLINE Backfiles, (MED66, MED71, MED75) will be merged into two new backfiles: MED66 and MED72. Please see last month's *NLM Technical Bulletin*, page 9, for complete dates of coverage for all of MEDLINE's Backfiles.

BILLING FOR AUTOMATIC SDIS ON SDILINE, NOVEMBER/DECEMBER 1987

Reminder: Due to the two updates of SDILINE which occur in the month of December 1987 (8801 (EM) and 8802 (EM)), participants in the Automatic SDI program will see charges for two sets of SDILINE Automatic SDIs on their December invoices. However, no SDILINE Automatic SDIs will be run during the calendar month of November 1987 so there should be no charges for SDILINE Automatic SDIs on November invoices. Instead, two sets of charges will appear on the December invoices. Please see the Technical Note in the October 1987 *NLM Technical Bulletin*, p. 6, titled "JANUARY 1988 SDILINE AUTOMATIC SDIS DELAYED DUE TO YEAR-END PROCESSING," for additional information.

CATLINE/AVLINE AVAILABLE DECEMBER 14, 1987 WITH 1988 MESH

The CATLINE and AVLINE files will be available online with 1988 MeSH terms on December 14, 1987. At that time all searches using MeSH must conform to the *Medical Subject Headings*, 1988. All STORESEARCHes stored for use with CATLINE/AVLINE files in the Automatic SDI Program should be reviewed and restored, if necessary, by December 31.

RTECS® MOVE TO TOXNET EXPECTED IN DECEMBER

Due to processing delays, RTECS has not yet been available in TOXNET. It is expected to move to TOXNET in December. RTECS will concurrently remain available in ELHILL® for approximately three months.

BACKFILE POSTINGS IN THE MESH VOCABULARY FILE

After December 14, the date when the 1988 MEDLINE databases become available, the Backfile Postings fields of the MESH VOCABULARY FILE will be changed to reflect information from the latest regeneration of the MEDLINE Backfiles. The six data elements updated in MESH will be:

M83 (for MED83 Backfile)
M80 (for MED80 Backfile)
M77 (for MED77 Backfile)
M72 (for MED72 Backfile)
M66 (for MED66 Backfile)

The numeric values in each of these fields will reflect the number of references for the term in each of the Backfiles. Each Backfile Postings field has two entries: the total postings for the term in a particular Backfile, and the *Index Medicus*™ (IM) or "central concept" postings (indicated by an asterisk (*)).

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

M83 - 95
M83 - *77
M80 - 122
M80 - *100
M77 - 179
M77 - *120
M72 - 166
M72 - *131
M66 - 183
M66 -*101

The exact date for these changes will be included in the online NEWS.

PDQ® ENHANCEMENTS

A new data element has been added to PDQ's Protocol File. This field with the designated name NEW, will indicate studies that appear in PDQ the current month, but were not there the previous month. This could indicate a new study, or one that was temporarily closed, then reopened at a later date. Selecting option 3 on the Protocol Menu (Keyword search), followed by entering a search key of NEW=Y will retrieve all new or reopened studies. The retrieval can be combined with other search criteria to make it easy, for example, to list all new breast cancer studies.

Dates are also being added to the end of protocol titles indicating the most recent amendment or, for new protocols, the date they were originally summarized. As amendments occur and new studies are added to PDQ,

these dates will be entered so that, at some future date, all studies will have them.

1988 INDEX MEDICUS SUBSCRIPTION PRICE ANNOUNCED

The Superintendent of Documents (U.S. Government Printing Office, Washington, DC 20402) has announced the 1988 annual subscription rate for *Index Medicus*: $179 ($223.75 non-U.S.). The price includes twelve regular issues, plus *Medical Subject Headings* and the *List of Journals Indexed in Index Medicus*, which are included with the January issue. The price per single copy of a monthly issue of *Index Medicus* is $34 ($42.50 non-U.S.).

1988 MESH CHEMICAL TOOL

Medical Subject Headings--Supplementary Chemical Records, 1988 may now be ordered from NTIS although actual publication is scheduled for late January. The stock number is PB88-120599/GBB. The prices of the hardcopy version are $43.00 in the United States and Canada and $86.00 elsewhere. Microfiche prices are $14.50 U.S./Canada and $29.00 non-U.S. There is a $3.00 (U.S./Canada) shipping and handling charge required for each order ($4.00 non-U.S.). Please send remittance with orders to:

National Technical Information Service (NTIS)
5285 Port Royal Road
Springfield, VA 22161
(For telephone orders with deposit account or credit card, call (703) 487-4650.)

LIST OF JOURNALS INDEXED IN INDEX MEDICUS, 1988

The *List of Journals Indexed in Index Medicus*, 1988 is now available for purchase from the U.S. Government Printing Office. (Actual publication is scheduled for January.) The stock number is S/N 717-107-00003-9; the U.S. price is $11.00 ($13.75 non-U.S.). (NOTE: Subscribers to *Index Medicus* receive this publication automatically.) Orders should be sent to:

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

BLACK AND WHITE MESH, 1988

The *Medical Subject Headings*, 1988 (Black and White MeSH) is now available for purchase from the U.S. Government Printing Office. The stock number is S/N 717-107-00002-1; the U.S. price is $31.00 ($38.75 non-U.S.). Subscribers to *Index Medicus* receive this publication as Part 2 of the January issue. This publication is for use with the printed *Index Medicus*. Online searchers should use the *Medical Subject Headings--Annotated Alphabetic List*, 1988 instead. Ordering information was provided in the Technical Notes section of the September 1987 issue of the *NLM Technical Bulletin*. If more information is needed, please call the MEDLARS Management Service Desk.

NLM ONLINE TRAINING PROGRAM 1988

Access FILE INFORM and type 'EXPLAIN TRAINING' to receive an online listing of the 1988 schedule of NLM Online Training classes. This schedule is also printed in the September issue of the *NLM Technical Bulletin* along with the revised form to apply for a class.

BIOETHICS PHONE NUMBER CHANGES

Effective November 1, the telephone numbers at the National Reference Center for Bioethics Literature, Kennedy Institute of Ethics, have changed. The new numbers are:

(202) 687-3885 (for reference questions)
(202) 687-6738 (for document delivery)

The toll-free number (800-MED-ETHX) for the National Reference Center for Bioethics Literature remains the same.

MESH POCKET CARD

Enclosed with this issue of the *NLM Technical Bulletin* is a copy of the new MeSH Pocket Card. This pocket card is intended to serve as a quick reference when using the MeSH vocabulary on the MEDLARS system. Searchers should still refer to the *Online Services Reference Manual*, 1986 for complete information concerning the MESH VOCABULARY FILE.

Please access **FILE INFORM** *and type* **NEWS** *to see the most recent news items online!*

New Enhanced Search Software Features Announced

The National Library of Medicine is pleased to announce that several enhancements to the ELHILL software have been made available to the online user community. These new enhancements involve three general features:

PRINT

Users are able to PRINT selectively any combination of retrieved records without using the SKIP instruction. This capability is available for online and offline printing. Examples of PRINT commands now follow.

COMMAND	WHAT PRINTS
PRT 9-20	9th - 20th records
PRT 1,11,20-25	1st,11th,20th-25th records
PRT -5	5th record only
PRT 5	1st 5 records
PRT 1-5	1st 5 records

This simplified method of selectively displaying records should not be used in conjunction with the old SKIP instruction. The old SKIP instruction, e.g., PRT 17 SKIP 8, can still be used, but be sure NOT to combine SKIP with the new selective printing format.

NON-RESPONSIVE ANSWERS TO SYSTEM QUESTIONS

Users are able to enter search terms in response to program questions without using the command FIND. It is possible to directly enter search term(s) rather than answering the CONTINUE PRINTING or UP N OR DOWN N questions. The examples below illustrate this feature.

```
CONTINUE PRINTING?  (YES/NO)
USER:
heart
SS (2)  PSTG (1034)

...

UP N OR DOWN N ?
USER:
rosenberg sa
SS (3)  PSTG (15)
```

NEIGHBOR

A numbered list of search terms is now generated in response to the NEIGHBOR command. One or more terms, or a range of terms, may then be SELECTed by number directly from the display, resulting in a search statement without having to rekey the search terms. The following examples illustrate the new NBR display and uses of the SELECT (abbreviated SEL) command.

```
USER:
nbr toxicology
PROG:

SELECT #   POSTINGS   TERM
  1          20     TOXICOLOGISTS (TW)
  2           1     TOXICOLOGO (TW)
  3         345     TOXICOLOGY (MH)
  4         556     TOXICOLOGY (TW)
  5         343     TOXICOLOGY (TA)
UP N OR DOWN N?

USER:
sel 3

PROG:
SS (1)  PSTG (345)
```

A hyphen entered between two SELECT numbers will cause the range of terms between the two numbers SELECTed to be ORd together. Likewise, a comma inserted between SELECTed numbers serves as an implied OR. Also, the SELECTed terms may linked together with Boolean (logical) operators (i.e., AND, AND NOT). For example:

SEL 1-3	ORs together terms 1, 2 and 3
SEL 1,3,5	ORs together terms 1, 3 and 5
SEL 1 AND SEL 5	ANDs together terms 1 and 5

The list of numbered search terms remains active and is useable throughout the search session. For example, at any subsequent search statement the searcher may enter SELECT 3,4 to search for the two terms selected.

The list may also be used with the SELECT command in other databases. Additional numbered terms are generated and added to the list when any subsequent NEIGHBOR command is issued. There may be a total of 140 terms kept in this SELECT LIST. New commands which are related to this enhancement are:

LISTSELECT - Used to display the list of previously generated terms.

KEEPSELECT - Used to keep certain terms in the SELECT list and erase others.

PURGESELECT - Used to erase the entire SELECT list.

We think that searchers will find these enhancements extremely useful. Please read the online EXPLAIN messages to learn more about these features. Enter FILE INTROMED and individually type EXPLAIN NEIGHBOR, EXPLAIN SELECT or EXPLAIN PRINT. Once in INTROMED, practice these new enhancements. The update issue of the *NLM Technical Bulletin*, scheduled for release in January, will contain more detailed information.

Notes on Subject Heading Policies for Catalogers

Wen-Min Kao
Technical Services Division, NLM

The NLM Cataloging Section has been reviewing policies on subject headings in order to make cataloging applications of MeSH more consistent with indexing principles. This will achieve greater specificity in the subject analysis of materials cataloged for CATLINE and AVLINE.

1. Form Subheadings Permitted with Organ and Disease Headings

Effective January 1, 1988, the Cataloging Section will begin applying form subheadings to organ and disease headings when appropriate. In the past, the NLM's policy was to use the specialty heading with the form subheading. For example, when cataloging an atlas of eye diseases, OPHTHALMOLOGY/atlases was used rather than EYE DISEASES/atlases.

With the elimination of restrictions regarding the use of form subheadings, the appropriate annotations have been added to the affected main headings in the *Medical Subject Headings - Annotated Alphabetic List*, 1988. For example:

EYE
... CATALOG: form qualif permitted

EYE DISEASES
... CATALOG: form qualif permitted

The restriction on the use of form subheadings was never observed in cataloging audiovisuals because all records in AVLINE have form subheadings to describe the audiovisual media. Therefore, this policy change does not affect AVLINE records.

It will not be possible to machine-maintain all existing records in CATLINE to bring them into conformance with the new policy. For comprehensive subject searches in CATLINE where the presence of form subheadings might have required the use of the specialty heading in older records, searchers should include both organ and organ/disease headings and the relevant specialty headings in the search.

2. Increase in the Number of Subheadings Applied to a Main Heading

In order to attain a finer degree of specificity in subject analysis, effective October 1987, the number of times the same main heading can be repeated with different subheadings has been increased from two to three. This applies to all four types of subheadings used in cataloging, namely, topical, geographic, form, and language. For example, it is now permissible to use in the same cataloging record:

EYE DISEASES - diagnosis
EYE DISEASES - therapy
EYE DISEASES - in infancy & childhood

The explanation under TOPICAL SUBHEADINGS - Number of Topical Subheadings Allowed, on p. I-87 of the *Annotated Alphabetic List*, 1988 should be changed to read:

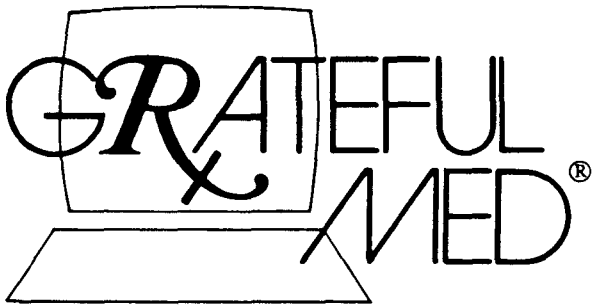
NLM catalogers do not subdivide the same main heading with more than three topical subheadings. If more than three topical subheadings is required, the main heading is usually given with no topical subheadings.

3. Added Entries for the Same Name as a Subject and as an Author

With the 1987 regeneration of the CATLINE and AVLINE files, personal, conference, and corporate names used as subjects are now indexed separately from their counterpart names as authors (see the April 1987 *NLM Technical Bulletin*). It is now possible to search specifically for names as authors only (PN, CN, and CNA for personal, corporate, and conference names, respectively) or for names used as subjects only (PS, CS, and CNS). Therefore, the NLM Cataloging Section has instituted a new policy of tracing the same name heading as an author and as a subject if the situation justifies it. For example:

For an autobiography of Sigmund Freud, Freud would be the main entry as well as subject added entry.

For a book in Piagetian psychology prepared under editorial direction and issued as a Festschrift to Piaget, Piaget would be traced as an added entry as the honoree of the Festschrift, as well as a subject added entry.



VERSION 2.0

[Editor's Note: Each month the NLM Technical Bulletin features a column of questions/answers concerning GRATEFUL MED. Contributions for this column will be appreciated.]

What is the best strategy for retrieving articles discussing the therapy of a disease?

The best strategy would include the use of SUBHEADINGS (SH) along with the appropriate MeSH disease heading. There are over 70 topical subheadings (from ABNORMALITIES to VETERINARY) that are added to MeSH headings to describe the particular aspect of the MeSH heading discussed in the article. You will see MeSH heading/subheading combinations on the records you retrieve in your GRATEFUL MED searches. For example: Hypertension/DRUG THERAPY or Heart/TRANSPLANTATION. Topical subheadings are listed at the front of the *Annotated Alphabetic MeSH* and also on panel 13 of the MEDLINE pocket card.

Articles discussing the therapy of a disease are indexed using the subheading to describe the particular type(s) of treatment involved. The various subheadings used to describe treatment modalities are: DIET THERAPY (SH), DRUG THERAPY (SH), RADIOTHERAPY (SH), SURGERY (SH), and THERAPY (SH). THERAPY (SH) is used for other types of therapy or multiple therapies.

When you are searching for therapy topics it is highly recommended that you select an appropriate subheading from the F10 display. If you see the term displayed more than once, be sure to select the term followed by (SH) so that you will be searching the term as a subheading.

Subheadings should be grouped on the same SUBJECT line by themselves, not with the disease term. Groupings of two or three, like DIET THERAPY, SURGERY, and RADIOTHERAPY will work. However, BE PRUDENT. Try to select only those subheadings that are necessary; a search with too many subheadings can cause an "overflow" (see next question) and your search may fail. In fact, the use of more than one subheading can cause an overflow, so it may be necessary to run multiple searches; one for each therapy of interest.

*What do terms like "PSTG" and "*NONE" mean? I see them as my searches are running.*

Here is a brief explanation of some of the system responses you may notice in your search interaction.

PSTG ( )

POSTINGS. The number within the parentheses is the number of postings or records retrieved by the term(s) entered on each INPUT line. When the INPUT lines are combined the final postings are also displayed.

SS ( )

SEARCH STATEMENT. The number within the parentheses is simply the number of the search statement that retrieved the postings. Each new search starts with SS (1). For example: **SS (3) PSTG (87)** would indicated that search statement number three retrieved eighty-seven postings.

NP ( )

NO POSTINGS. The term within the parentheses did not match in the database. Check to see if you misspelled it. It is possible, however, to run successful searches even though you get NO POSTINGS for some terms because of the manner in which GRATEFUL MED searches.

If you see the screen that reads "...YOUR SEARCH FOUND NOTHING" it is likely you will see one of the following terms in the search interaction.

*NONE

There was no match when all the search terms were combined. In other words, there are no records in that database that contain the combination of terms you specified. Check your spelling, try to broaden your strategy, or try to reduce the number of INPUT lines you are using.

STORPSTG OVFLW

The search retrieved too many postings. You need to reduce the number of terms in your search. Using MeSH terms from the F10 display rather than simply typing in terms on a SUBJECT line can help avoid this problem.

Don't forget to call the MEDLARS Management Service Desk (800-638-8480) to discuss your search results or to get help with your searches.

GRATEFUL MED users should also note the following articles and/or features in this issue:

ANNOUNCING: GRATEFUL MED VERSION 3.0, p.1.
TECHNICAL NOTES, p3.

Computer Software Records in AVLINE

Carolyn N. Davis
Technical Services Division, NLM

INTRODUCTION

NLM has begun to catalog and add records for computer software used on microcomputers to the AVLINE database. The records for software are prepared following Revised Chapter 9 "Computer Files: Data and Programs" of the *Anglo-American Cataloging Rules*, 2nd ed., 1978. Software is not available from NLM on inter-library loan, although it may be used onsite in NLM's Learning Resources Center. In the AVLINE record, the Price (PR) field provides availability information for those procurement sources that loan or sell the software.

AVLINE RECORD CONTENT

At the present time, software records are entered into AVLINE in a modified format and some data are stored in more general fields because of current NLM system requirements. Until changes are made to NLM computer programs to accommodate a full record format for computer files, cataloging records for computer software will not be printed in NLM publications or distributed in MARC format. Computer software cataloging records may be easily identified by 1) the words 'Computer file' in the General Material Designation (GMD) field; 2) the form subheading 'software' which is appended to all print concept subject headings in the MH field; and 3) the presence of the media code 'CA' in the call number (CA) field in the AVLINE record (e.g., WA 485 CA no.1 1985).

In addition, the following specific types of information are included in computer software records in AVLINE:

1. FILE CHARACTERISTICS found in the EDITION (ED) field

Includes the type of file (e.g., program, data, or combinations); size of files, number of records, etc. - this is not the same as physical description, which is stored in Collation (CO).

2. TYPE OF MACHINE found in the GENERAL NOTE (GN) field

The computer that NLM has in the Learning Resources Center for use with the computer software program.

3. SYSTEM REQUIREMENTS found in the GENERAL NOTE (GN) field

The make(s) of computer(s) on which that software is designed to be used; type of operating system; software requirements; memory requirements; peripherals (e.g., printers, monitors) needed, etc.

4. DISK CHARACTERISTICS found in the GENERAL NOTE (GN) field

Type of disk on which the software is stored.

5. OTHER FORMATS AVAILABLE found in the GENERAL NOTE (GN) field

Whether the software is available for use with other makes of microcomputers.

SEARCHING FOR COMPUTER SOFTWARE IN AVLINE

Software records can be specifically searched by entering 'COMPUTER FILE' (ME) or by 'SOFTWARE' (SH). In addition, one can search by specific models of computers which can read the software by qualifying with (MD). A partial list of searchable values for models of computers is below; it will expand as additional models of computers are identified in the cataloging of software:

MEDIA DESCRIPTION (MD)

APPLE II (COMPUTER)
APPLE IIC (COMPUTER) (1984)
APPLE IIE (COMPUTER)
APPLE II PLUS (COMPUTER)
AT&T (COMPUTER)
COLUMBIA DATA (COMPUTER)
COMPAQ PORTABLE COMPUTER
EAGLE COMPUTERS
FRANKLIN ACE 1000 (COMPUTER)
IBM PERSONAL COMPUTER

IBM PERSONAL COMPUTER (AT) (1985 LIST #4)
IBM PERSONAL COMPUTER (XT) (1984)
IBM PCJR (COMPUTER) (1984)
IT&T (COMPUTER)
TANDY 2000 (COMPUTER) (1984)
NCR (COMPUTER)
NEC (COMPUTER)
TRS-80 MODEL I (COMPUTER) (1984)
TRS-80 MODEL II (COMPUTER) (1984)
TRS-80 MODEL III (COMPUTER) (1984)
UNITRON

The following examples illustrate searches for computer software in AVLINE.

```
SS 1 /C?
USER:
computer file (me)              Search on the Media (ME) value

PROG:
SS (1) PSTG (52)

SS 2 /C?
USER:
software (sh)                   Search using the form subheading
                                for computer software
PROG:
SS (2) PSTG (52)

SS 3 /C?
USER:
1 and apple: (md)               Truncated search for the models of computer
                                on which the software is designed to run
PROG: MM (APPLE:) (4)
             1  APPLE II (COMPUTER) (MD)
             2  APPLE II PLUS (COMPUTER) (MD)
             3  APPLE IIC (COMPUTER) (1984) (MD)
             4  APPLE IIE (COMPUTER) (MD)
SPECIFY NUMBERS, ALL, OR, NONE-

USER:
4

PROG:
SS (3) PSTG (41)
```

Figure 1

```
SS 4 /C?
USER:
prt 1 dl include md          Sample Print Detailed of a software
                             record
PROG: 1
MH  - Diffusion/*/software
MH  - Osmosis/*/software
CY  - United States
ZN  - Z1.107.567.875
PN  - Chandler, James R.//////
PN  - Capaldi, Roderick A.//////
TI  - Osmosis/G
TI  - Osmosis and diffusion/
GMD - [computer file]
AS  -  / by James R. Chandler.
ED  - Computer program (4 files).
IM  - Pelham, N.Y. :/E.M.E. Corp.,/c1984.
CO  - 1 computer disk ; 5 1/4 in. + 1 guide + 1 lab booklet.
GN  - Type of machine: Apple II (Computer).
GN  - System requirements: Apple II Plus, IIe, IIc; 48K; color monitor
      desirable. GN  - Title on guide: Osmosis and diffusion.
GN  - "Consultant, Roderick Capaldi ; computer program, James R.
      Chandler: -- Guide.
GN  - File size unknown.
GN  - Disk characteristics: floppy disk.
GN  - Includes post-test.
GN  - Includes 1 computer disk (back-up) ; 5 1/4 in.
GN  - Issued also for TRS-80 I/III.
CP  - 02NLM:QU 34::CA:no.1:1984
CA  - QU 34 CA no.1 1984:02NLM
SL  - c.1:LRC
PC  - American Journal of Nursing Company.  Educational Services Division
Y1  - S:1984
PR  - Loan: Not available from NLM
PR  - Loan: American Journal of Nursing Company, Educational Services
      Division, Write for complete information (no. EME06AP)
PR  - Sale: American Journal of Nursing Company, Educational Services
      Division,  41.00 (no. EME06AP)
LP  - Eng
LA  - Eng
MT  - PERSONAL NAME MAIN ENTRY
RO  - O:CAA
RO  - C:CFE
RO  - M:RGM
DA  - 870827
MR  - 870906
LR  - 870930
RI  - rev
EL  - FULL LEVEL
IT  - MONOGRAPH
UI  - 8700644A
ME  - COMPUTER FILE
AV  - B21290
MD  - APPLE II (COMPUTER)
MD  - APPLE IIE (COMPUTER)
MD  - APPLE II PLUS (COMPUTER)
MD  - TRS-80 MODEL I (COMPUTER) (1984)
MD  - TRS-80 MODEL III (COMPUTER) (1984)
```

Figure 2

```
SS 4 /C?
USER:
prt 1 cc                          Sample Print Catcard

PROG:
1
Chandler, James R.
    Osmosis [computer file] / by James R. Chandler. -- Computer program
  (4 files). -- Pelham, N.Y. : E.M.E. Corp., c1984.
    1 computer disk ; 5 1/4 in. + 1 guide + 1 lab booklet.

    Type of machine: Apple II (Computer).
    System requirements: Apple II Plus, IIe, IIc; 48K; color monitor
    desirable.
    Title on guide: Osmosis and diffusion.
    "Consultant, Roderick Capaldi ; computer program, James R.
    Chandler: -- Guide.
    File size unknown.
    Disk characteristics: floppy disk.
    Includes post-test.
    Includes 1 computer disk (back-up) ; 5 1/4 in.
    Issued also for TRS-80 I/III.

    1. Diffusion - software  2. Osmosis - software  I. Capaldi, Roderick
  A.  II. Title  III. Title: Osmosis and diffusion

  02NLM: QU 34 CA no.1 1984
  NLM SL:  (c.1 LRC)
  Cit. No. 8700644A (rev)


SS 4 /C?
USER:
1 and ibm: (md)                   Truncated search on model of computer

PROG:
MM (IBM:) (4)
             1  IBM PCJR (COMPUTER) (1984) (MD)
             2  IBM PERSONAL COMPUTER (MD)
             3  IBM PERSONAL COMPUTER (AT) (1985 LIST N (MD)
             4  IBM PERSONAL COMPUTER (XT) (1984) (MD)
SPECIFY NUMBERS, ALL, OR, NONE-

USER:
3

PROG:
SS (4) PSTG (36)
```

Figure 3

```
SS 5 /C?
USER:
prt 1 cc

PROG:
1
Indirect calorimetry [computer file] : programmed instructional package
  --  MS-DOS version. -- Computer program (1 file). -- Edwardsville, KS
  : Medi-Sim, c1985.
    1 computer disk ; 5 1/4 in.

    Type of machine: IBM Personal (Computer) AT : MS-DOS 2.1.
    System requirements: IBM-PC, XT, or Columbia; 128K; MS-DOS 2.1;
    monitor.
    Title from disk label.
    File size unknown.
    Disk characteristics: floppy disk, double-sided.
    Includes 1 computer disk (back-up) ; 5 1/4 in.
    Issued also for Compaq, Tandy 2000, AT&T, IT&T, Eagle, NCR and NEC.

    1. Calorimetry - software

  02NLM: QU 125 CA no.1 1985
  NLM SL:  (c.1 LRC)
  Cit. No. 8700631A (rev)


SS 5 /C?
USER:
prt 1 lo ss 3                    Example of Prt Loan format

PROG:
1
TI  - Osmosis/G
TI  - Osmosis and diffusion/
GMD - [computer file]
AS  -  / by James R. Chandler.
ED  - Computer program (4 files).
IM  - Pelham, N.Y. :/E.M.E. Corp.,/c1984.
CO  - 1 computer disk ; 5 1/4 in. + 1 guide + 1 lab booklet.
PC  - American Journal of Nursing Company.  Educational Services Divisior
PR  - Loan: Not available from NLM
PR  - Loan: American Journal of Nursing Company, Educational Services
      Division, Write for complete information (no. EME06AP)
PR  - Sale: American Journal of Nursing Company, Educational Services
      Division, 41.00 (no. EME06AP)
CA  - QU 34 CA no.1 1984:02NLM
IT  - MONOGRAPH
UI  - 8700644A
```

Figure 4

GRATEFUL MED Version 3.0
continued from page 1.

VERSION 3.0 ENHANCEMENTS

GRATEFUL MED, Version 3.0, incorporates many new features and enhancements. Some of these are described briefly below.

NEW DATABASES

Version 3.0 introduces several new databases (in addition to MEDLINE and CATLINE) in the user-friendly format:

AVLINE	TOXLINE ®
CANCERLIT	TOXLIT
CHEMLINE ®	TOXLIT65
DIRLINE ®	MEDLINE BACKFILES
HEALTH	

Each of these databases has a unique INPUT form screen specially tailored to the type of information available in that database. For example, searching by CHEMICAL NAME is an option on the CHEMLINE form screen.

A discussion of each database and its unique search features is provided in a new section of the *User's Guide*. Helpful information is also available by pressing the HOME key in GRATEFUL MED at any point where questions arise.

SIMPLIFIED INSTALLATION

GRATEFUL MED, Version 3.0, incorporates simplified installation procedures.

HARD DISK SYSTEM:

Step 1.

Place the new Master Program disk in your drive A: and at a C> prompt enter:

a:hinstall <subdirectory name>

The subdirectory name is the subdirectory where you wish to load GRATEFUL MED, Version 3.0 (e.g., GM3). You do not need to create this new subdirectory -- GRATEFUL MED will do so automatically.

FLOPPY DISK SYSTEM:

Step 1.

Place the new master in A: and a formatted disk (with DOS) in B:. At the A> prompt enter:

finstall

NOTE: Once the installation is complete for either a hard disk or floppy disk system, you may want to copy your BLOGIN file from your copy of GRATEFUL MED, Version 2.0 -- it will work fine with Version 3.0 and will eliminate the need for you to run SETUP and input your code and phone numbers.

EDITING THE SEARCH STRATEGY

GRATEFUL MED, Version 3.0, allows one to 'edit' the search strategy once the search has been run. The searcher does not have to re-input the entire strategy - the INPUT form screen is simply redisplayed with all of the terms, exactly as they were input. This feature may be especially useful if a "typo" caused the search to fail, or if the searcher wishes to modify the strategy to broaden or narrow the search.

One may also take advantage of this edit capability to run the same search strategy in more than one database. GRATEFUL MED will ask if one wants to 'change databases' before the search is edited. If yes, the searcher will be prompted to select another database, and the data from the original INPUT form screen will be transferred to the INPUT form screen for the new database. Either make changes to the strategy, or simply run the same search unchanged.

SHORTCUTS

With GRATEFUL MED, Version 3.0, one will be able to bypass all of the initial screens of GRATEFUL MED. This capability allows the searcher to go directly from the DOS prompt to whatever the ACTION screen choice would be, e.g., go directly to the MEDLINE INPUT form screen. The format for this will be to enter at the DOS prompt: SEARCH/M. The various options for this feature are listed in the revised pages of the *User's Guide*.

AUTHOR SEARCHING

GRATEFUL MED allows one to enter an author's name in the format FIRST NAME (or initial) followed by the LAST NAME, just as it always has. It will still convert this to the proper search format online. However, the author's name will no longer be reformatted on the AUTHOR line of the GRATEFUL MED INPUT form screen. It will remain in the entered format until it actually does the search. Other new features are described in the *User's Guide* pages that accompany the new disks. Further discussions of the features of Version 3.0 will also be provided in the GRATEFUL MED column of upcoming *NLM Technical Bulletin* issues.

INTERIM STRATEGY FOR USE OF VERSION 2.0 WITH THE 1988 SYSTEM

It is possible that users will not receive Version 3.0 by the time the 1988 system comes up. This may cause some inconvenience for users who do Backfile searching. The Backfile configuration that will be in place as of December 14, 1987 incorporates a new Backfile known as BACK72 and eliminates BACK75 and BACK71. Version 2.0 of GRATEFUL MED will only know the "old" backfile configuration that includes BACK75 and BACK71. It will not "know" about BACK72.

NLM has attempted to get around this problem for users. First, the filename BACK75 will be an alias for the new BACK72 file and the filename BACK71 will be an alias for the BACK66 file. Therefore, when GRATEFUL MED, Version 2.0, gives the command for FILE BACK75, it will automatically access BACK72 and when it gives the command FILE BACK71, it will automatically access the BACK66 file. However, if one chooses to do a comprehensive backfile search, one will retrieve the data in BACK66 twice - once when GRATEFUL MED asks for BACK71 and once when it asks for BACK66. To avoid this, tell GRATEFUL MED to search only 14 years back. This will search all of the Backfiles, yet will not search BACK66 twice. Once Version 3.0 is obtained, this approach will no longer be necessary as it incorporates the new backfile configuration.

An alternative to searching only 14 years back is to download from the Source a new module for GRATEFUL MED. This module, RESEARCH.OVR "knows" the new Backfile configuration and can be used with Version 2.0 of GRATEFUL MED. Follow the instructions below to do the special download.

HARD DISK SYSTEM:

1. Insert your Master Program disk in drive A:. Be sure you are at the C> in your GRATEFUL MED subdirectory. At the C> prompt enter the following series of commands:

a:arce a:meduts *.exe dwnld (CR)

rename research.ovr research.old (CR)

2. Call up GRATEFUL MED by entering 'search'. On any screen after the initial screen, press the ESC key to bring up the RESTART screen. Select option 6 to download the new module.

NOTE: GRATEFUL MED can only use TELENET for this procedure. Therefore, you must have TELENET as one of your SETUP choices. It does not have to be your "first" choice.

3. Once the download is successfully completed (this will take approximately 2 -3 minutes), enter the following command at the C> prompt:

a:arce research /r (CR)

This will "install" the new file on you hard disk. You will then be ready to run a Backfile search.

4. After you have run a successful Backfile search, you may want to delete the following files:

RESEARCH.ARC
RESEARCH.OLD
README

FLOPPY DISK SYSTEM:

1. Make a new operating copy of GRATEFUL MED as follows. Place your DOS disk in drive A: and the current operating copy of GRATEFUL MED in drive B:. At the A> prompt type:

diskcopy b: a: (CR)

The system will prompt you for a new "target" disk in drive A:. Remove DOS and place a blank, formatted disk in drive A:.

NOTE: DO NOT leave the DOS disk in drive A:. It will be overwritten!

2. Insert your Master Program Disk in drive A: and a blank, formatted disk in drive B:. At the B> prompt, enter the following series of commands:

copy/v a:arce.com b: (CR)
arce a:meduts *.exe dwnld (CR)

Remove the Master Program Disk from drive A:. Place your new operating copy of GRATEFUL MED (from Step 1) in drive A:.

3. Call up GRATEFUL MED by entering 'search' at the A> prompt. On any screen after the initial screen, press the ESC key to bring up the RESTART screen. Select option 6 to download the new module.

NOTE: GRATEFUL MED can only use TELENET for this procedure. Therefore, you must have TELENET as one of your SETUP choices. It does not have to be your "first" choice.

4. Once the download is successfully completed (this will take approximately 3 - 5 minutes), enter the following to complete the installation of the new module:

b:arce b:research /r (CR)

The disk in drive A: is now your "new" operating copy of GRATEFUL MED.

Monthly Search Hint:

The FILES Command

From time to time, searchers want the ability to see a complete list of the MEDLARS files searchable with the ELHILL software on the NLM computer while they are online. For example, a searcher may temporarily forget the exact name of TOXLIT's backfile or cannot immediately recall the names of the MEDLINE Backfiles. When this happens, use the FILES command. This command displays a list of the searchable databases on the MEDLARS system available under the ELHILL software. Do not confuse FILES with the FILE command. FILE is the command used, preceding the name of a database, to select a file.

In terms of charges for receiving this list, it is most cost-effective to access FILE INFORM first, before typing FILES. However, if the command is entered in MEDLINE or in files charged at the same rate as MEDLINE (i.e., most NLM databases), the charge should only be approximately $23.50/hour during prime time and $16.50/hour during non-prime time. Figure 1 contains an example of the FILES command.

The FILES command only shows MEDLARS databases available under the ELHILL software, not PDQ or MEDLEARN® which operates under different software. The TOXNET databanks (HSDB®, CCRIS, etc.) are also not seen because they operate under different software on a different computer.

Remember to consider the use of the EXPLAIN command to receive a description of any ELHILL file. Access FILE INFORM first to be most cost-effective.

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

PROG:
YOU ARE NOW CONNECTED TO THE INFORM FILE.

SS 1 /C?
USER:
files

PROG:
YOU MAY ACCESS THE MEDLINE, SDILINE, BACK83, BACK80, BACK77,
BACK75, BACK71, BACK66, CATLINE, NAME AUTHORITY, OLD MESH
VOCABULARY, AVLINE, MESH VOCABULARY, CANCERLINE, CHEMLINE, NEW MESH
VOCABULARY, TOXLINE, RTECS, TOXLIT, CLINPROT, SERLINE, BIOETHICS,
HISTORY OF MEDICINE, TOXLIT65, DIRLINE, HEALTH PLANNING & ADMIN,
POPLINE, INFORM AND INTROMED FILE SETS.
YOU ARE NOW CONNECTED TO THE INFORM FILE.

SS 1 /C?
USER:
show cost dl

PROG:
THE ESTIMATED TOTAL ONLINE COST FOR THIS 0 MINUTE INFORM SESSION IS
$ 0.08.
  YOU HAVE ENTERED 2 INTERACTIONS AND 0 SEARCH STATEMENTS.
  0 CITATIONS WERE PRINTED AND 525 CHARACTERS WERE SENT TO YOUR
   TERMINAL.
  0 OF THE DISPLAYED CITATIONS WERE BROWSED.
  THE COMPUTER HAS USED 15 WORK UNITS IN PERFORMING YOUR INTERACTIONS.
```

Figure 1

Serials Update

INDEXED TITLES UPDATE, NOVEMBER 1987

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, OCTOBER 1987

IM ADVANCES IN IMMUNITY AND CANCER THERAPY
ADV IMMUN CANCER THER
1,1985--
SPRINGER VERLAG
NEW YORK UNITED STATES
INDEXING BEGAN WITH V1,1985.
W1 AD646 0178-2134
SR0055007 JC: 2M9

IM CHRONOBIOLOGY INTERNATIONAL
CHRONOBIOL INT
1N1,1984--
PERGAMON PRESS
OXFORD ENGLAND
OFFICIAL JOURNAL OF THE INTERNATIONAL SOCIETY OF CHRONOBIOLOGY.
INDEXING BEGAN WITH V1N1,1984.
W1 CH972T 0742-0528
SR0050031 JC: CYT

IM GENES AND DEVELOPMENT
GENES DEV
1N1,MAR 1987--
COLD SPRING HARBOR LABORATORY
COLD SPRING UNITED STATES
HARBOR NY
INDEXING BEGAN WITH V1N1,1987.
W1 GE273M 0890-9369
SR0058232 JC: FN3
COLD SPRING HARBOR LABORATORY,FULFILLMENT DEPT,COLD SPRING HARBOR NY 11724

IM INTERNATIONAL JOURNAL OF BIOLOGICAL MARKERS
INT J BIOL MARKERS
1N1,JAN-APR 1986--
WICHTIG EDITORE MILANO
MILAN ITALY
INDEXING BEGAN WITH V1N1,JAN-APR 1986.
IN PROCESS 0393-6155
SR0061153 JC: IJM

IM INTERNATIONAL JOURNAL OF PANCREATOLOGY
INT J PANCREATOL
1N1,MAY 1986--
ELSEVIER SCIENCE
AMSTERDAM NETHERLANDS
OFFICIAL JOURNAL OF THE INTERNATIONAL ASSOCIATION OF PANCREATOLOGY.
INDEXING BEGAN WITH V1N1,MAY 1986.
W1 IN771H 0169-4197
SR0056731 JC: IJP
ELSEVIER SCIENCE PUBLISHERS B.V.,P.O. BOX 1527,1000 BM AMSTERDAM THE NETHERLANDS

INI JOURNAL OF NUTRITION FOR THE ELDERLY
J NUTR ELDER
1N1, SPRING 1980--
HAWORTH PRESS
NEW YORK UNITED STATES
INDEXING BEGAN WITH VOL. 6 NO. 4,SUMMER 1987.
W1 JO798H 0163-9366
J32285000 JC: JNE
SUBSCRIPTION DEPARTMENT,HAWORTH PRESS,INC.,75 GRISWOLD ST.,BINGHAMTON NY 13904

IM LEUKEMIA
LEUKEMIA
1N1,JAN 1987--
WILLIAMS AND WILKINS
BALTIMORE UNITED STATES
OFFICIAL JOURNAL OF THE LEUKEMIA SOCIETY OF AMERICA AND THE LEUKEMIA RESEARCH FUND, U.K.
INDEXING BEGAN WITH V1N1,JAN 1987.
W1 LE905 0887-6924
SR0057387 JC: LEU

IM PROCEEDINGS OF THE CHINESE ACADEMY OF MEDICAL SCIENCES AND THE PEKING UNION MEDICAL COLLEGE
PROC CHIN ACAD MED SCI PEKING UNION MED COLL
1N1,MAR 1986--
CHINESE ACADEMY OF MEDICAL SCIENCES AND THE PEKING UNION MEDICAL COLLEGE
BEIJING CHINA
INDEXING BEGAN WITH V1N1,1986.
IN PROCESS 0258-8757
SR0057864 JC: PSU
CHINA NATIONAL PUBLICATIONS IMPORT AND EXPORT CORPORATION,P.O. BOX 88,BEIJING,CHINA

IM RADIOGRAPHICS
RADIOGRAPHICS
1N1,SPRING 1981--
RADIOLOGICAL SOCIETY OF NORTH AMERICA
EASTON PA UNITED STATES
APPROVED FOR CATEGORY 1 CME CREDIT BY THE AMA.
INDEXING BEGAN WITH V6,1986.
W1 RA261M 0271-5333
R01150000 JC: RDG
RADIOLOGICAL SOCIETY OF NORTH AMERICA, 20TH AND NORTHAMPTON STS., EASTON PA 18042

IM REVISIONES SOBRE BIOLOGIA CELULAR
REVISIONES BIOL CELULAR
1,1983--
SERVICIO EDITORIAL DE LA UNIVERSIDAD DEL PAIS VASCO
LEIOA-VIZCAYA SPAIN
INDEXING BEGAN WITH V1,1983.
IN PROCESS
SR0061149 JC: REI
RBC,UNIVERSITY OF THE BASQUE COUNTRY,FACULTY OF MEDICINE,APDO. 22,48000 LEIOA-VIZCAYA SPAIN

IM REVISTA DA SOCIEDADE BRASILEIRA DE MEDICINA TROPICAL
REV SOC BRAS MED TROP
1,1967--
SOCIEDADE BRASILEIRA DE MEDICINA TROPICAL
RIO DE JANEIRO BRAZIL
SUMMARIES IN ENGLISH.
INDEXING BEGAN WITH V19N1,JAN-MAR 1986.
W1 RE371F 0037-8682
R40760000 JC: RET
SOCIEDADE BRASILEIRA DE MEDICINA TROPICAL,RUA LAURA DE ARAUJO 36,CP 1859,20000 RIO DE JANEIRO,BRAZIL

IM SEMINARS IN RESPIRATORY INFECTIONS
SEMIN RESPIR INFECT
1N1,MAR 1986--
GRUNE AND STRATTON
ORLANDO FL UNITED STATES
INDEXING BEGAN WITH V1N1,MAR 1986.
W1 SE489HI 0882-0546
SR0057006 JC: SEI
GRUNE AND STRATTON,6277 SEA HARBOR DRIVE,ORLANDO FL 32821

IM SEMINARS IN VETERINARY MEDICINE AND SURGERY (SMALL ANIMAL)
SEMIN VET MED SURG (SMALL ANIM)
1N1,FEB 1986--
GRUNE AND STRATTON
ORLANDO FL UNITED STATES
INDEXING BEGAN WITH V1N1,1986.
W1 SE489RH 0882-0511
SR0055101 JC: SEN
GRUNE AND STRATTON,6277 SEA HARBOR DRIVE,ORLANDO FL 32821

TITLE CHANGES, OCTOBER 1987

IM ALCOHOL AND DRUG RESEARCH
ALCOHOL DRUG RES
6N1,1985/86-7N5/6,1987
PERGAMON PRESS
ELMSFORD NY UNITED STATES
CONTINUES: SUBSTANCE AND ALCOHOL ACTIONS/MISUSE. ABSORBED BY: ALCOHOL.
W1 AL303D 0883-1386
SR0055669 JC: AAM

IM AMERICAN JOURNAL OF PHYSICAL MEDICINE AND REHABILITATION
AM J PHYS MED REHABIL
1988--
WILLIAMS AND WILKINS
BALTIMORE UNITED STATES
CONTINUES: AMERICAN JOURNAL OF PHYSICAL MEDICINE.
ON ORDER 0894-9115
SR0060641 JC: AJO

IM CHUNG-HUA KOU CHING I HSUEH TSA CHIH
IDL
CHUNG HUA KOU CHIANG HSUEH TSA CHIH
22N1,1987--
CHINESE MEDICAL ASSOCIATION
BEIJING CHINA
CONTINUES: CHUNG-HUA KOU CHIANG KO TSA CHIH.
W1 CH982HQ
SR0061000 JC: D7R

IM ENVIRONMENTAL AND MOLECULAR MUTAGENESIS
ENVIRON MOL MUTAGEN
10N1,1987--
LISS
NEW YORK UNITED STATES
CONTINUES: ENVIRONMENTAL MUTAGENESIS.
ON ORDER 0893-6692
SR0059902 JC: EMM

HLI JOURNAL OF STATE GOVERNMENT
J STATE GOV
59N1,SPRING 1986--
COUNCIL OF STATE GOVERNMENTS
LEXINGTON KY UNITED STATES
CONTINUES: STATE GOVERNMENT. THIS TITLE IS NOT IN THE NLM COLLECTION.
AHA
SR0061104 JC: JZG

INI PRO RE NATA
PRO RE NATA
8N4,JUL-AUG 1986--
UTAH NURSES ASSOCIATION
SALT LAKE CITY UT UNITED STATES
CONTINUES: ONE ON ONE.
IN PROCESS
SR0061057 JC: PRR

TITLES NO LONGER INDEXED AS OF OCTOBER 1987

IM INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY
INT J ENVIRON ANAL CHEM
1, 1971-
GORDON AND BREACH
LONDON ENGLAND
INDEXING BEGAN WITH V1N1,AUG 1971 AND CEASED WITH V29N4,1987.
W1 IN766GK 0306-7319
I26780000 JC: GR4

IM JOURNAL OF ORAL MEDICINE
IDL
J ORAL MED
21,1966-42,1987
AMERICAN ACADEMY OF ORAL MEDICINE
ST LOUIS UNITED STATES
CONTINUES: JOURNAL OF DENTAL MEDICINE.
W1 JO803U 0022-3247
J33040000 JC: JIB

APPENDIX A

STORESEARCH NOW ONLINE

P. E. Pothier
MEDLARS Management Section, NLM

WHAT IS STORESEARCH?

STORESEARCH is a command used to construct a search strategy to be stored in the NLM mainframe computer so that it can be called up by its name and used again. This can eliminate re-typing of searches which the searcher plans to run against more than one MEDLARS database. It can, therefore, cut down on the time spent entering searches and the associated costs incurred if the same search is to be used to interrogate more than one database.

Until now, the major use of STORESEARCHes has been the storing of search strategies to be run as monthly current awareness queries against database updates as part of NLM's Automatic SDI program. (For details of the special conventions or rules which must be followed for STORESEARCH, see the NLM Online Services Reference Manual, 1986, Section 5.2.4.2 and 5.2.8. Note: This Manual is the comprehensive reference guide to the NLM databases and system command language.)

We expect that the new capability of running STORESEARCHes online, as opposed to only "offline" should greatly enhance their use.

HOW TO CREATE A STORESEARCH

When storing a search, first connect to the database on which the STORESEARCH is to be run, or at least to a similar file. Otherwise, the search strategy may not be compatible with the database against which the search may be run. For example, if MeSH headings are used, then any MeSH term which consists of more than one word will not retrieve records if the search is run against a "free-text" file. Moreover, if the search terms entered are qualified by element mnemonics (two- or three-letter symbols for database fields or elements), they may not be recognized by a "different" database. This is because, although the mnemonic may appear to be the same, it may be different in its actual internal coding in the NLM computer system. Mnemonics, for example, are (MH) for MeSH heading, (AU) for Author, (TW) for Text Word, etc.

To enter a STORESEARCH, begin by typing the command STORESEARCH. Later, end the process by typing FINISHED. The complete procedure is shown below with use of an example which has accompanying notes.

The searcher accesses the NLM system and, in this case, is connected to MEDLINE.

```
SS 1 /C?
USER:
storesearch

PROG:
SEARCHNAME?
USER:
liver disease children
PROG:
ON-LINE OUTPUT:--NPS/PSTG/NONE?
USER:
pstg
PROG:
ENTER SEARCH

*STS* SS 1 /C?
exp liver disease or
liver neoplasms

PROG:
SS (1) PSTG (13576)

*STS* SS 2 /C?
USER:
CHILD OR CHILD, PRESCHOOL
PROG:
SS (2) PSTG (56482)

*STS* SS 3 /C?
USER:
1 and 2 and not for (la)
PROG:
SS (3) PSTG (984)

*STS* SS 4 /C?
USER:
finished
PROG:
OK?  (Y/N/C/ADDRESS)
USER:
y
PROG:
STORESEARCH COMPLETED.

USER:
```

The searcher initiates the storing of the search by typing the command STORESEARCH followed by pressing the carriage return or ENTER key.

The program responds by asking for the user to name the search. Be sure to note the rules on naming searches in the Manual and later in this article.

As in OFFSEARCH, answering NONE provides no computer checking and feedback; NPS will generate No Postings messages only when retrieval cannot be made on the search terms as entered against the file to which the user is currently connected; and PSTG causes the search actually to be performed as it is typed in.

The program now asks for the search strategy, and the searcher types in the search. Terms which create a multi-meaning message will be searched with the meaning selected by the user. If this occurs, the multi-meaning message will be repeated each time the search is executed online against a database.

STRINGSEARCH should be avoided in STORESEARCH. Offline, it may encounter the 3000-citation limit, and online it may be very costly. All terms that are desired for retrieval must be gathered into the last search statement. This is the only search statement of the formulation that will be used to generate the final result. After the search has been entered, type FINISHED. The program will then ask if the formulation is correct. A response of Y causes the program to reply STORESEARCH COMPLETED and to store the search during the night. A response of N returns the

searcher to the *STS* SS number SS 4 /C? displayed immediately previous to the FINISHED instruction, and C cancels the entire search. (ADDRESS is an inappropriate query and response for STORESEARCH and should be ignored).

Typing in the search formulation does not by itself store the search. The search is stored by a batch processing program, run at night. Therefore, the search cannot actually be used until the next business day following the business day on which the formulation was stored (business day meaning Monday through Friday, exclusive of Federal government holidays). In other words, a search stored on Friday, for example, would be available for use on Monday; a search stored on Saturday or Sunday would not be available for use until Tuesday.

HOW TO NAME THE SEARCH

STORESEARCHes must be named in accordance with rather strict naming conventions. If these rules are not followed, the STORESEARCH may not run and/or it may be impossible to display or delete. These naming conventions apply to all STORESEARCHes: the additional naming conventions which must be followed when naming STORESEACHes which are to be used as Automatic SDI searches are discussed in Section 5.2.4.2 of the Online Services Reference Manual, 1986.

Users are responsible for keeping a record of the names of their stored searches. A list of a user's stored searches can be requested from MEDLARS Management, but there is currently no way to request a list online.

Here are the rules for naming STORESEARCHes:

1. The names may be no more than 30 total characters in length, including spaces.

2. The 30th character of the name must not be a space.

3. The Searchname must contain at least one alphabetic character; it may not be all numeric.

4. Each STORESEARCH name must be different. If two STORESEARCHes are given the same name, neither can be run, displayed, or deleted. If a STORESEARCH is removed and reformulated, allow a night for the original search to be purged before re-entering another with the same name.

5. A Searchname should not contain any special characters such as hyphens, commas, parentheses, colons, semi-colons, periods, etc. Some of these will not cause the search to fail, but others will, and it is best to avoid them all. We suggest you restrict Searchnames to only alphabetic or alphanumeric characters.

6. A name must not contain a Boolean operator (AND or OR).

VIEWING OR DISPLAYING THE SEARCH

Since storing a search requires overnight NLM computer processing, the searcher should verify that it has actually been stored before assuming that it can be run. This can easily be done in the following manner. The day after a search has been stored (or the day after the next business day, if the search was stored on a Federal government holiday), the searcher should log in, using the same User ID code as was used when the search was stored, and DISPLAY the STORESEARCH.

```
SS 1 /C?
USER:
display liver disease children
```

Do not use the (SN) qualifier to DISPLAY to make sure that it has been stored properly. The (SN) is only used when requesting the search execution. If the search has not been properly stored, one of the following messages will be displayed:

```
STORED SEARCH 'LIVER DISEASE CHILDREN' DOES NOT NOW EXIST.

       or

STORED SEARCH 'LIVER DISEASE CHILDREN' EITHER MISSING OR MULTIPLY
DEFINED.

       or

STORED SEARCH SPECIFIED CANNOT BE FOUND.
```

The most common causes of this failure are:

1. The search was improperly named and contains non-alphanumeric characters;

2. The Searchname contains a space in the 30th position;

3. Two searches have been stored with the same name;

4. The search was stored under a different User ID code from the one that has currently accessed MEDLARS.

Call the MEDLARS Management Section for assistance. Be sure to have accessed MEDLARS with the same User ID code used when the search was stored. Also, check to see if the search name was typed exactly as it was originally entered. We will try to help solve any problems. Be aware, though, that some misnamed searches cannot be executed, displayed, or deleted. However, there is no charge to the user for storage of searches.

The User ID code must be the same as the one used to log in when the search was stored because it is the link between the searcher and the stored searches. When naming stored searches, the program appends the User ID code to the Searchname. Thus if the User ID code is XYZ01 and the stored search name is LIVER DISEASE CHILDREN, the program actually records the searchname as:

LIVER DISEASE CHILDREN/MEDXYZ01

It is this invisible extension to the search name that makes it possible for STORESEARCHes to reside in the main memory of the computer and yet be accessible only to a user who accesses the system with the same User ID as the user who stored them.

USING STORED SEARCHES

Since STORESEARCHes can now be used online, where the amount and nature of the retrieval are known immediately, they can be used to accomplish many things which formerly had to be done either in OFFSEARCH or via SAVE or SAVESEARCH. STORESEARCHes reside in the main memory of the NLM computer so they are not subject to the 6,220-character limitation of the Unified User Specification File (UUSF) which contains SAVEd searches. This means that STORESEARCHes can contain much more than SAVEd searches and also that there is effectively no limit to the number of STORESEARCHes a user can have. SAVEd searches, which can be saved, used immediately, and removed immediately remain the vehicle of choice for running short searches against several files. But STORESEARCH is now the method of choice for more lengthy searches which are needed regularly or frequently. For example:

1. Searches run at regular intervals to update data from files for which Automatic SDI service is not available, such as BIOETHICS or HISTLINE.

2. Hedges, that is, searches with terms that all deal with the same subject but which come from different categories of the MeSH tree structures. An "immunology" hedge, for example, might be constructed with terms for the immune system from Category A15; terms for immune system physiology taken from Category G4; terms for immunologic diseases from C20; terms for antigens and antibodies from D24; and terms for immunologic diagnosis, tests, and therapies from the E categories.

3. Searches for a special interest group, such as dentists, in which the STORESEARCH would contain dental headings from MeSH, the Special List indicator D, as well as the various Title Abbreviations for dental journals that are indexed for Index Medicus.

4. Searches used to store the Journal Title Codes (JC), ISSN (IS), or Title Abbreviations (TA) for the journals in the collection of a small or specialized library. By ANDing a search strategy with

the STORESEARCH, one can assure that all of the retrieved citations will be to articles that are available in one's own library:

```
SS 6 /C?
USER:
5 AND MYLIB (SN)
```

Two things should be noted when using STORESEARCH:

1. When the STORESEARCH is executed, whether online or using OFFSEARCH, the searchname must be qualified by (SN). The qualifier is not used when the search is named, input, displayed, or purged; but it must be used to run the search.

2. STORESEARCHes differ from ordinary line-by-line, searches in one very important respect: the final search statement must be a summary of the entire strategy. This means that all concepts for which retrieval is desired must be logically pulled together in the last search statement.

This last condition is responsible for most of the problems encountered in running stored searches.

LIMITS AND RESTRICTIONS ON THE USE OF STORESEARCH

STORESEARCH is a very powerful and useful procedure; however, it is subject to certain NLM computer program restrictions.

1. Because STORESEARCHes reside in the main memory of the computer, the user cannot list out the names of stored searches; this list should be requested from MEDLARS Management. Write or call with the User ID code.

2. STORESEARCHes cannot be shared online with other users. In other words, user A cannot log in and use another searchers search because STORESEARCHes can only be run from the User ID code with which they were stored.

3. STORESEARCHes cannot be edited. Whenever the user wishes to add or delete terms (such as at the beginning of each MeSH year) or change the searchname, the whole STORESEARCH must be deleted, reformulated, and re-entered.

4. STORESEARCHes cannot be used the same day they are entered because the search is not stored immediately, but instead during the night or the night of the next business day after the system has been brought down. Deleting a search also requires overnight processing so an updated STORESEARCH cannot be entered the same day as a superseded one is deleted, unless it is given a different name.

5. Use of the RESTACK (RSTK or KEEP) command is not permitted in

STORESEARCH. If a user attempts to RESTACK while inputting the search, the following message will appear.

RESTACKING NOT PERMITTED WHILE STORING SEARCHES

6. If the STORESEARCH is to be run online, the number of terms generated by a truncation or explosion may not exceed the online limit of 450 terms, rather than the OFFSEARCH limit of 2,250. In an ordinary online search this limit applies to each search statement, so if one stays within the limit for each search statement, the search will run. But because in STORESEARCH the operational search statement is the last one, in which all of the logic is brought together, the search will work as it is input (with PSTG option on), but it will fail on subsequent attempts to execute it. A STORESEARCH containing several large explosions or "root" truncations, such as ALL TOXIC:, will almost certainly fail online. The user will receive the message:

   GENTRM OVFLW

7. Similarly, since the intermediate result of the comparison of two terms of lists in a single search statement may not exceed 208,000 records, the occurrence of more than one large comparison list will cause the search to fail in execution. The message received will be:

   PROC PSTG OVFLW

8. STRINGSEARCHing and ranging should be avoided in STORESEARCH because they are the most time-consuming of all online search procedures and therefore the most expensive.

DELETING A STORESEARCH

To remove a stored search from the computer, use the command PURGESEARCH.

```
USER:
purgesearch liver disease children
PROG:
OK? (Y/N/C/ADDRESS)
USER:

y
PROG:

PURGESEARCH COMPLETED
```

Note: Do not use the (SN) qualifier when purging a STORESEARCH.

The search will be purged during night processing that evening or on the night of the next business day. The searcher should attempt to DISPLAY the search the next day to make sure it has been purged.

```
USER:
display liver disease children
PROG:
STORED SEARCH 'LIVER DISEASE CHILDREN' DOES NOT NOW EXIST.
```

Do not store a new search with the same name as a purged search. Wait overnight and verify that the "old" STORESEARCH has indeed been purged before storing a search with an old, identical SEARCHNAME.

If a stored search has a space in the 30th position of its name, it cannot be run or displayed, but it can usually be purged by adding one or more characters in position 31 and beyond. For instance, to purge a stored search named TOXIC SILVER SULPHIDE CONTACT DERMATITIS which has a space in position 30, enter:

```
purgesearch toxic silver sulphide contact xyz
```

If a stored search was mistakenly given a name which contains a Boolean operator (AND or OR), it can only be purged by first using the RENAME command to RENAME the Boolean operator:

```
SS 2 /C?
USER:
RENAME AND TO +
PROG:
"AND" HAS NOW BEEN RENAMED TO "+".

SS 2 /C?
USER:
purgesearch asthma and bronchitis
```

Do not attempt to purge a search by truncating the search name with a colon; it will not work.

If an error has been made while inputting a STORESEARCH, i.e., before the message STORESEARCH COMPLETED, abort it by issuing the command STORESEARCH CANCEL after any user cue.

FINAL WORD

STORESEARCH is a sophisticated and powerful search tool; however, because of many rules and involved procedures it is a fairly complex process. If assistance is needed with this procedure, please do not hesitate to contact the MEDLARS Management Section.

U.S. G.P.O. 1987-

CHANGE OF ADDRESS FORM
(U.S. users only)

Please print or type.

User ID Code _____ (Must be included)

New Billing Address:

Name: _____

_____

_____

_____

_____

Telephone: _____

New Administrative/NLM Technical Bulletin Address:

Name: _____

_____

_____

_____

_____

Telephone: _____

_____
Signature

_____
Printed Name

_____
Date

Please affix current address label here:

Please mail this form to:

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

ISSN 0146-3055
DECEMBER 1987
No. 224

The NLM Technical Bulletin

ATEFUL MED Users
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Searching RTECS® on TOXNET®

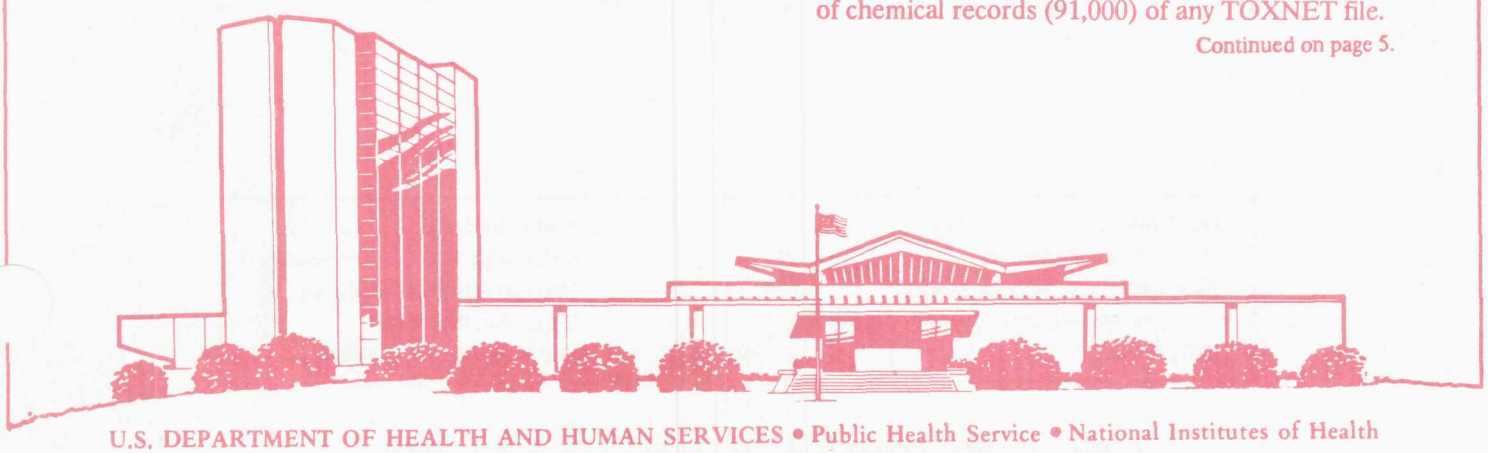
Philip Wexler
Jeanne Goshorn

Specialized Information Services Division, NLM

RTECS (Registry of Toxic Effects of Chemical Substances) became publicly available on the TOXNET system on December 7, 1987. An article describing RTECS's history and content appeared in the September 1987 issue of the *NLM Technical Bulletin*. The file is built and maintained by the National Institute for Occupational Safety and Health (NIOSH). This present article gives some practical examples of searching RTECS on TOXNET. Refer to Figure 1 for a display of the RTECS Unit Record.

Structurally, RTECS is similar to TOXNET's CCRIS file. It contains a relatively small (compared to HSDB®) number of data fields, is arranged by chemical, devotes considerable space to summarizing test results, and utilizes data tabs as a way to organize the information contained in the study fields. RTECS has by far the greatest number of chemical records (91,000) of any TOXNET file.

Continued on page 5.



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • National Institutes of Health
National Library of Medicine

MEDLARS DATABASE	TOTAL RECORDS	DATES COVERED	DATE LAST UPDATED	LATEST UPDATE TAG
ELHILL COMPUTER				
AVLINE	16,672	THROUGH 1987	24 DEC 87	
BIOETHICS	24,002	JAN 73-1987	17 DEC 87	8712(EM)
CANCERLIT	617,812	JAN 63-NOV 87	31 OCT 87	8711(EM)
CATLINE	623,468	THROUGH 1987	24 DEC 87	
CHEMLINE	778,691		20 DEC 87	8712(EM)
CLINPROT	6,377		22 DEC 87	8712(EM)
DIRLINE	15,629		22 SEP 87	
HEALTH	399,196	JAN 75-JAN 88	14 DEC 87	8801(EM)
HISTLINE	80,186		03 DEC 87	8712(EM)
MEDLINE	508,323	JAN 86-JAN 88	14 DEC 87	8801(EM)
MED83	891,544	JAN 83-DEC 85	14 DEC 87	
MED80	804,712	JAN 80-DEC 82	14 DEC 87	
MED77	775,037	JAN 77-DEC 79	14 DEC 87	
MED72	1,170,378	JAN 72-DEC 76	14 DEC 87	
MED66	1,309,310	JAN 66-DEC 71	14 DEC 87	
MESH VOC	62,998	1988	27 DEC 87	
NAME AUTH	291,322		27 DEC 87	
PDQ		THRU DEC 87	04 DEC 87	
POPLINE	155,598	1970-DEC 87	20 DEC 87	8712(EM)
RTECS	90,474	THROUGH JUL 87	27 AUG 87	
SDILINE	23,792	JAN 88	14 DEC 87	8801(EM)
SERLINE	69,685	1987	15 DEC 87	
TOXLINE	846,615	PRE-1965-1987	19 DEC 87	8712(EM)
TOXLIT	777,505	1981-1987	19 DEC 87	8712(EM)
TOXLIT65	771,593	1965-1980	01 AUG 87	
TOXNET COMPUTER				
CCRIS	1,176		17 DEC 87	
HSDB	4,151		22 DEC 87	
RTECS	90,474		15 DEC 87	

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Bethesda, Maryland 20894

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Technical Notes

Whenever applicable, the heading of each Technical Note includes a reference to the section of the Online Services Reference Manual 1986 that is considered most relevant to the item being discussed, e.g., (Manual 4.7.2). Users should keep in mind that the item may pertain to other sections of the Manual as well.

MARTIN LUTHER KING'S BIRTHDAY HOLIDAY SCHEDULE

The NLM computer will be operational on a guaranteed basis on Monday, January 18, 1988, the day of the Federal government observance of Dr. Martin Luther King's birthday. Online charges will be at non-prime rates all day and the MEDLARS® Management Service Desk will not be staffed. On Martin Luther King's actual birthday, Friday, January 15, 1988, the NLM computer will also be operational and the MEDLARS Management Service Desk will be staffed. Regular online charging rates will be in effect all day. Please see the October 1987 *NLM Technical Bulletin*, Appendix C, for the complete 1988 holiday schedule.

CANCERLIT® YEAR-END PROCESSING

Year-end processing of the CANCERLIT file has been delayed. Watch the online news for further details.

TOXNET OFFLINE PRINTS

Offline print requests entered for the Hazardous Substances Data Bank, the Chemical Carcinogenesis Research Information System, or Registry of Toxic Effects of Chemical Substances on the TOXNET system may now be cancelled. Each offline print is now assigned a unique taskname beginning with the letter T. This taskname appears on the top righthand corner of the first page of the printout. To request cancellation of a TOXNET offline print, call the MEDLARS Management Section at (800) 638-8480 or (301) 496-6193 from 8:30 a.m.- 5:00 p.m. ET, M-F excluding Federal government holidays and request cancellation of the TOXNET offline print by taskname. Requests for cancellation must be made on the same day the search was entered. Cancellations cannot be requested on weekends.

TOXBIB ENTRY MONTH CHANGES

TOXBIB records in the 1988 TOXLINE® file, made public on December 17, contain the original MEDLINE® Entry Month (EM), rather than the single entry month used for the previous file rebuild. Users are cautioned that some other parts of the TOXLINE database still have single entry months for the entire component, and thus the Entry Month field is not recommended for limiting searches other than the performance of regular monthly update searches following a TOXLINE update. Users are also reminded that special instructions were given for running November 1987 monthly update searches with the elimination of TOXBIB records (include "and not TOXBIB (SI)"). Both November and December TOXBIB records will be retrieved with update searches run after the December TOXLINE update (EM) 8712. This is because the TOXLINE rebuilding process resulted in two months of TOXBIB records having the 8712 EM. (None of these special instructions were necessary for TOXLINE Automatic SDI's; they pertain only to users running their own recurring TOXLINE searches.)

ADDITION OF NUMBER OF REFERENCES (RF) FIELD TO PRINT FORMATS

The Number of References (RF) field has been added to all MEDLINE and HEALTH standard print formats for the 1988 system. Remember, Number of References are only included with citations to articles indexed with the check tag REVIEW. The RF field prints before the Source (SO) field. An example follows:

Online Printout:

RF - REVIEW ARTICLE: 88 REFS.

Offline Printout:

RF - 88

Explanatory text has been added to the RF field for online printouts only. For offline printouts, the RF field is printed exactly the way the data are stored in the record, i.e., the number only with no explanatory text.

SYSTEM MESSAGE CHANGES

Two system messages have been changed as part of the new software enhancements announced in the November *NLM Technical Bulletin*. These are outlined briefly below.

1. The NBR message has changed to accommodate the new software enhancements. The new message follows:

```
SELECT #   POSTINGS   TERM
  1           3      EYDOUX P (AU)
  2           1      EYDT JN (AU)
  3        1028      EYE (MH)
  4        3670      EYE (TW)
  5          10      EYE (NF)
UP N OR DOWN N OR ENTER A SELECT
COMMAND.
```

Previously this message read as:

```
UP N OR DOWN N?
```

2. One of the options offered in the computer Multi-Meaning message resulting from an EXPLODE is now processed differently. If NONE is chosen in response to the Multi-Meaning, a No Postings (NP) message will display:

```
SS 1 /C?
USER:
exp eye

PROG:
MM (EYE) (2)
              1  A1.456.505.420
              2  A9.371
NUMBER, NONE, OR EXPAND-

USER:
none

PROG:
NP (EYE.: (MN))
```

The computer now processes the NONE option as a No Postings (NP) answer, recognizing the searcher's desire to exit from the EXPLODE search without further processing. In this example, there are postings to the MeSH Heading EYE in the database, but the searcher has requested NONE. The NP result replaces previous programming that used to go ahead and process Tree #1 in the Multi-Meaning message when NONE was the searcher's choice.

PRINTING DELAY ON NLM CATALOGS

NLM has been informed by the U. S. Government Printing Office (GPO) of delays in printing the July - September, 1987 quarterly issues of the *NLM Current Catalog* and the *NLM Audiovisuals Catalog*. These issues will be delayed until January at the earliest. *Index Medicus*™ and other publications are not affected by this delay.

CLINPROT® INDEX TERM LISTING

The CLINPROT Index Term listing for December 1987 is now available. It may be requested by writing to the MEDLARS Management Section. Please include a self-addressed label with your request. No return postage is necessary.

Please access FILE INFORM *and type* NEWS *to see the most recent news items online!*

Searching RTECS
Continued from page 1.

Remember that data tabs (e.g., ROUTE, SPECIES, etc.) are generally not searchable as specific fields but simply organize data within fields. Searching may be qualified by data field or category, including individual terms in the reference. Searching for terms in the reference may be a useful way to track down an obscure article but users should also be aware of false drops that may result when they are searching data fields for a search term that happens to be part of a journal or book title.

The various print options available in the TOXNET system apply to RETCS as well. Three search questions are found in Figures 2-4. Each contains a brief discussion and sample interaction.

RTECS Unit Record

0.		**	ADMINISTRATIVE INFORMATION	
	RTN		Record Number	
	DATE		Last Revision Date	
	RLEN		Record Length	
1.	ID	**	SUBSTANCE IDENTIFICATION	
	RTEC		RTECS Accession Number	
	NAME		Name of Substance	
	RN		CAS Registry Number	
	SY		Synonyms	
	MF		Molecular Formula	
	MW		Molecular Weight	
	WLN		Wiswesser Line Notation	
	CC		Class of Compound	
	CDEF		Chemical Definition	
	DTYP		Data Type	
2.	TOXB	**	TOXICITY/BIOMEDICAL EFFECTS	
	MSTU		Mutagenicity Studies	(1) (see below)
	CSTU		Carcinogenity Studies	(2)
	SSTU		Skin and Eye Irritation	(3)
	GSTU		General Toxicity Studies	(2)
	RSTU		Reproductive Studies	(2)
3.	TOXR	**	TOXICOLOGY AND CARCINOGENICITY REVIEW	
	TREV		Toxicology Review	
	CREV		Cancer Review	
	TLV		Threshold Limit Value	
	NREC		NIOSH Recommended Limits	
4.	EXSR	**	EXPOSURE STANDARDS AND REGULATIONS	
	SREG		Standards and Regulations	
	STAT		Federal Program Status	

(1) Organized by data tabs - test system, species/route/cell type, dose, reference

(2) Organized by data tabs - route, species, study type, dose, effect reference

(3) Organized by data tabs - route, species, dose, effect, reference

Figure 1

```
1.  Are there any standards for exposure to copper fumes?

Discussion:  This is a fairly straightforward search for information
on a known chemical.  First, the single record for copper is retrieved
and then the Standards and Regulations (SREG) field is printed.  This
particular standard is set by the Mine Safety and Health
Administration (MSHA).  Since there was only one occurrence of SREG
for this chemical, it is easy to spot the required information.  If
the search was for a chemical with potentially many regulations, a
more precise approach would be to AND the first search statement for
the chemical with another search statement like - (sreg) all fume:

SS 1 /C?
USER:
copper (name)
    SEARCH IN PROGRESS...
SS (1) PSTG (1)

SS 2 /C?
USER:
prt sreg


RTN  - 27533
NAME - COPPER
RN   - 7440-50-8
SREG - MSHA STANDARD-air:TWA 0.1 mg/m3 (fume,dusts &
       mists); DTLVS* 3,59,71; Doc Threshold Limit Values
```

Figure 2

```
2.  What are some disodium salts that have been tested in DNA Repair
assays?

Discussion:  Name fragment searching is a powerful tool for locating
classes of chemicals.  DNA Repair is one of a number of assay systems
tracked by NIOSH for mutation data.

SS 1 /C?
USER:
same (nf) disodium and salt
    SEARCH IN PROGRESS...
438 OCCURRENCES IN 260 RECORDS
SS (1) PSTG (260)

SS 2 /C?
USER:
same (mstu) dna and repair
    SEARCH IN PROGRESS...
885 OCCURRENCES IN 699 RECORDS
SS (2) PSTG (699)

SS 3 /C?
USER:
1 and 2
    SEARCH IN PROGRESS...
SS (3) PSTG (11)

SS 4 /C?
USER:
prt 1 hits


RTN   - 32045
NAME  - DICHROMIC ACID, DISODIUM SALT
RN    - 10588-01-9
SY    - CHROMIC ACID, DISODIUM SALT
MSTU  - TEST SYSTEM          DNA repair
        SPECIES/ROUTE/       B. subtilis
         CELL TYPE
        DOSE                 50 mmol/L
        REFERENCE            Toxicol Lett, vol 7, pg 439, 1981 (TOLED5)
MSTU  - TEST SYSTEM          DNA repair
        SPECIES/ROUTE/       E. coli
         CELL TYPE
        DOSE                 200 nmol/plate
        REFERENCE            J Toxicol Environ Health, vol 9, pg 287, 1982
                             (JTEHD6)
MSTU  - TEST SYSTEM          DNA repair
        SPECIES/ROUTE/       B. subtilis
         CELL TYPE
        DOSE                 50 mmol/L
        REFERENCE            Toxicol Lett, vol 7, pg 439, 1981 (TOLED5)
```

Figure 3

```
3.  What chemicals, when inhaled, have been shown to alter female
fertility?

Discussion:  "Fertility" is the giveaway that suggests searching for
Reproductive Studies (RSTU).

SS 1 /C?
USER:

same (rstu) female and fertility and inhalation
    SEARCH IN PROGRESS...
15 OCCURRENCES IN 11 RECORDS
SS (1) PSTG (11)

SS 2 /C?
USER:
prt 2 hits


RTN   - 13729
NAME  - BENZENE
RN    - 71-43-2
RSTU  - ROUTE              inhalation
        SPECIES            rat
        STUDY TYPE         TCLo
        DOSE               670 mg/m3/24H (15D pre/-1-22D preg)
        EFFECT             EFFECTS ON FERTILITY (Female fertility index)
        REFERENCE          Hyg Sanit, vol 33(1-3), pg 327, 1968 (HYSAAV)

RTN   - 26164
NAME  - CHLOROFORM
RN    - 67-66-3
RSTU  - ROUTE              inhalation
        SPECIES            rat
        STUDY TYPE         TCLo
        DOSE               300 ppm/7H (6-15D preg)
        EFFECT             EFFECTS ON FERTILITY (Female fertility index;
                           Post-implantation mortality)
        REFERENCE          Toxicol Appl Pharmacol, vol 28, pg 442, 1974
                           (TXAPA9)
CONTINUE PRINTING? (YES/NO)
USER:
y
RSTU  - ROUTE              inhalation
        SPECIES            mouse
        STUDY TYPE         TCLo
        DOSE               100 ppm/7H (1-7D preg)
        EFFECT             EFFECTS ON FERTILITY (Female fertility index;
                           Post-implantation mortality)
        EFFECT             EFFECTS ON EMBRYO OR FETUS (Fetotoxicity)
        REFERENCE          Toxicol Appl Pharmacol, vol 50, pg 515, 1979
                           (TXAPA9)
```

Figure 4

PDQ ACCESS - New PC Search Software

Jim Carter

Database Manager, ICRDB, NCI

PDQ ACCESS, a new telecommunications software package designed by the National Cancer Institute (NCI) for use with the PDQ® database on MEDLARS, is now available for purchase from the National Technical Information Service (NTIS). It is intended to make searching PDQ even easier for both physicians and librarians. Also, new search capabilities have been added. PDQ ACCESS automatically connects from any IBM PC, Compaq or IBM-compatible computer to PDQ through ordinary telephone lines; displays PDQ information from a search on the computer screen; and records this information while online to a file on either the PC's hard or floppy disk. It disconnects from PDQ and then allows the searcher to display the information again on the computer screen or to print the information on a printer, while they are not connected to the MEDLARS system.

PDQ ACCESS also allows automated searching of CANCERLIT with predefined search strategies stored and updated by NCI in PDQ. Currently there are more than 200 stored searches which can be used by searchers to retrieve references from CANCERLIT on many cancer treatments.

Once a diagnosis is chosen in the PDQ Cancer Information File, the searcher can choose a continuation option menu that includes "retrieve CANCERLIT searches." A menu lists all available search strategies for the diagnosis chosen. For example, the diagnosis "breast cancer" currently has search strategies for the treatment of six different types/stages of breast cancer. If the searcher chooses the search strategy for "adjuvant chemotherapy of postmenopausal breast cancer," the selected search is displayed on the screen as follows (and is simultaneously captured by PDQ ACCESS). Figure 1 below shows this complete CANCERLIT search, formatted for ELHILL® command language searching.

After the statements have been captured, pressing the F8 key begins an automatic process of logging off PDQ, logging into CANCERLIT, and capturing a retrieval using the chosen search strategy. As the searcher is printing retrieval, the system will offer the option to change the print format and continue printing, or return to PDQ.

HARDWARE/SOFTWARE REQUIREMENTS

The PDQ ACCESS software program was designed for PDQ users who are unfamiliar with ELHILL searching and desire the convenience of automated system access and file capture. It will work on IBM personal computers and Compaq personal computers that have a minimum of 256K RAM and at least one 360K disk drive using DOS Version 2.0 or higher. Microcomputers which are compatible with the IBM personal computers and run PC-DOS (or MS-DOS) Version 2.0 or higher, should run PDQ ACCESS without problems. A Hayes Smartmodem or Hayes-compatible modem which can run Hayes Smartcom II software is also required.

For more information about PDQ ACCESS, please call the PDQ Service Desk at (301) 496-7403 or write: PDQ, National Cancer Institute, Bldg. 82, Room PA1, Bethesda, MD 20892. PDQ ACCESS may be purchased from NTIS at $19.95 per copy plus $3.00 shipping charge for each total order. The order number for PDQ ACCESS is PB88-103692. (NOTE: Users who connect to NLM through toll-free WATS numbers rather than local TELENET or TYMNET numbers should contact the PDQ Service Desk before ordering PDQ ACCESS.)

```
Adjuvant Chemotherapy of Postmenopausal Breast Cancer

*breast neoplasms/dt or *breast neoplasms/th
1 and menopause (mh) and adjuvant (tf) and all post: (tf)
2 and not case report (mh) and not meeting abstract (pt)
ts :human: (mh) and :eng: (la)
4 and greater than 83 (yr)
```

Figure 1

VERSION 2.0

[Editor's note: This month's column will be devoted to introducing Version 3.0.]

The new and improved GRATEFUL MED Version 3.0 is being sent at no charge to everyone who purchased Versions 1.0 or 2.0 from the National Technical Information Service (NTIS). If you have moved since you made your original order you should notify NTIS of your new address, even if you have notified the National Library of Medicine of your address change. If you are working in a large institution such as a university or hospital, it is also advisable to check with NTIS to make sure they have your complete address (room number, department, etc.). The telephone number for NTIS is (703) 487-4650.

The big news about Version 3.0 is the addition of new INPUT screens. There is now a user-friendly interface to seven additional MEDLARS databases:

AVLINE® - Citations for audiovisuals designed for health professionals. Videocassettes, motion pictures, and computer software is included.

CANCERLIT - Citations to published literature covering all aspects of cancer from 1976 forward.

CHEMLINE® - A dictionary file of unique chemical substances identified primarily from MEDLARS databases. Registry numbers and synonyms are provided.

DIRLINE®- A directory file of reference centers, associations and groups willing to provide information suitable for the general public.

HEALTH - Citations dealing with the non-clinical aspects of health care delivery.

TOXLINE - Citations to toxicological information from non-royalty sources.

TOXLIT/TOXLIT65 - Citations to toxicological information from royalty sources.

These databases (except CHEMLINE and TOXLIT) are charged at the same basic MEDLINE rates, approximately $24/hour prime, $17/hour non-prime. CHEMLINE charges are approximately $94/hour prime, $87/hour non-prime. TOXLIT charges are approximately $133/hour prime, $126/hour non-prime. (Prime time is Mon.- Fri. 10 a.m. to 5 p.m. ET. Non-prime time is all other times and Federal holidays.)

We will discuss these new databases in more detail in future columns. Please let us know if you have specific questions.

The second most notable aspect about Version 3.0 is that you can make changes on your INPUT screen even after the search has been run. Let's say your search found nothing and you want to try again but this time leave out some terms in order to broaden the retrieval. Rather than re-input the terms you want to retain, you can simply edit the last screen. You can even make changes and run the modified search in another database.

Version 3.0 also includes a number of other improvements:

- The installation procedure is simplified.
- A completely new *User's Guide* is provided.
- The HELP screens (available via the HOME key) have been revised.
- You can go directly from the DOS prompt of your GRATEFUL MED subdirectory to the INPUT screen of your choice. For example:

SEARCH/M

will take you directly to the MEDLINE INPUT screen.

- 1988 MeSH® vocabulary. Each year NLM modifies the MeSH vocabulary, so you may notice some new terms when browsing through the "F10" display.
- You can search an older range of years by selecting a particular MEDLINE backfile, or, search all the MEDLINE backfiles and just bypass the MEDLINE "front file."
- Names entered on the AUTHOR line will not be reformatted; therefore, you can make changes more easily before you go on to search.

- You can specify from the DOS prompt of your subdirectory that you want the results of your search to be written to a file named by you.

Please read the *User's Guide* that comes with Version 3.0 for complete explanations of these features and watch this column for more details.

GRATEFUL MED users should also note the following articles and/or features in this issue:

TECHNICAL NOTES, p. 3.

CLINPROT Terminology

Changes

David J. Perry, M.D.

International Cancer Research Data Bank Branch, International Cancer Information Center, National Cancer Institute

In February 1988, a number of subject captions currently used for CLINPROT indexing will be deleted. These are listed below. All the terms indented under these terms will also be deleted.

CODES	CAPTIONS
0780.21	Therapy Modality Combinations
0780.23	Therapy Schedules
0780.25	Remission Studies
0780.31	Stratification Parameters
0780.33	Chemotherapeutic Agents
0780.35	Route of Drug Administration

In the paragraphs below, a brief description of each caption family is provided along with the reasons for deleting the terms. There are also suggestions on how to more effectively search CLINPROT without these terms.

THERAPY MODALITY COMBINATIONS

The subject captions indented under "Therapy Modality Combinations" are terms such as: "Chemo/surg/BMT." This term retrieves studies using three different modalities: Chemotherapy, surgery, and bone marrow transplantation. CLINPROT users may follow the suggested strategy found in Figure 1 for the same retrieval.

THERAPY SCHEDULES

Captions under "Therapy Schedules" are represented by terms like "Intermittent Therapy." In use, this type of term is not very helpful. Users can more effectively retrieve studies by using the drug and disease terms and scanning the protocol details for the therapy schedules.

REMISSION STUDIES

"Remission Studies" has indented terms like "Intensification" and "Continuation." Again, these terms are not very useful apart from a specific disease and mode of therapy.

STRATIFICATION PARAMETERS

"Stratification Parameters" contains a number of terms such as "Bone marrow status" and "Renal function." Most CLINPROT users are not as interested in the parameters used to stratify patients (roughly, to adjust randomization in order to analyze subgroups of patients) as they are in the criteria allowing patients to enter a study. Additional terms allowing CLINPROT users to retrieve studies by entry criteria are being developed.

CHEMOTHERAPEUTIC AGENT

The subject captions under "Chemotherapeutic Agent" are terms like "Chemotherapeutic Agents, nineteen." This information is of no practical value. Retrieval by individual drugs rather than the number of drugs provides useful information.

ROUTE OF DRUG ADMINISTRATION

"Route of Drug Administration" lists terms like "Drug Administration, Intrathecal." This information is potentially useful, but because most chemotherapy protocols use multiple agents, the route of administration subject caption may apply to any of several drugs in a given study. Retrieval by drug and review of the protocol details on drug dose and route of administration is recommended.

```
SS 1 /C?
USER:
chemotherapy
SS (1) PSTG (XX)

SS 2 /C?
USER:
surgery
SS (2) PSTG (XX)

SS 3 /C?
USER:
autologous bone marrow therapy or
allogeneic bone marrow therapy or
syngeneic bone marrow therapy
SS (3) PSTG (XX)

SS 4 /C?
USER:
1 and 2 and 3
```

Figure 1

Monthly Search Hint:

A New Way to Search for the General Aspect of a Topic

Jane Rosov
MEDLARS Management Section, NLM

As announced and briefly described in the November 1987 *NLM Technical Bulletin*, there are several new enhancements to the ELHILL software. This Monthly Search Hint first provides some additional background concerning these new features and then shows how to use the features easily to search for records that represent articles discussing the general aspects of a topic, i.e., no particular subheading is starred to indicate the slant of the article for *Index Medicus*. These general articles are sometimes referred to as "up front" articles because in *Index Medicus* they appear at the beginning of the section providing citations for a MeSH heading. This technique may be used in any database that uses the MeSH vocabulary. It supercedes the technique presented in the April 1985 *NLM Technical Bulletin*.

BACKGROUND

One of the new software features was a modification to the list of search terms generated as the result of NEIGHBOR (NBR) or NEIGHBORDETAILED (NBRDET) commands. This list of terms is known as the SELECT LIST. Now, in addition to displaying the alphabetical list of search terms with their corresponding postings, a number identifying each term is displayed to the left of each term. This number, known as the SELECT NUMBER, may be used with the new command SELECT (abbreviated SEL) to search for the desired term(s) as an alternative to keying the actual term(s) to be searched. A search statement using SELECT may be entered directly in response to the UP N OR DOWN N OR ENTER A SELECT NUMBER system prompt or at any other time a search statement may be entered. The SELECT LIST of search terms (NOT the postings) remains active from database to database until the searcher logs off or erases the list with a PURGESELECT command. The SELECT LIST holds up to 140 terms. Terms are added with each NEIGHBOR command issued. When the list fills, the oldest terms are deleted first and are replaced with the terms from the newest NBR display. More details concerning the SELECT command will be given in future *NLM Technical Bulletin* articles, particularly the forthcoming special issue designed to help update users on any database changes, new vocabulary, etc.

Please refer to page 7 of the November 1987 *NLM Technical Bulletin* for some examples of the use of the SELECT command.

SEARCHING FOR THE GENERAL ASPECT OF A TOPIC

Outlined below, with an accompanying example in Figure 1, are the easy steps needed to retrieve general articles on a topic.

1. Type the NBRDET command followed by the MeSH heading to see the subheadings that currently exist in combination with the term. All the combinations will list out first, followed by those with an asterisk. The asterisk indicates the MeSH heading/subheading combinations that represent the main point of an article.

2. Use the command SEL with the appropriate SELECT NUMBER to search for all records with the asterisked MeSH heading. This retrieval includes records with asterisked subheadings attached to the MeSH heading, and also may include records without asterisked subheadings attached to the asterisked MeSH heading itself.

3. Use the SEL command with the appropriate range of SELECT NUMBERS to gather all records which do have the asterisked MeSH heading/subheading combinations.

4. This "subheading inclusive" retrieval is then excluded (NOTed out) from the original comprehensive retrieval. What remains are records which have no asterisked subheadings attached to the MeSH heading.

5. To search MEDLINE's Backfiles, it is best to enter a new NBRDET command in each database and duplicate the steps outlined in Figure 1. The MeSH heading/subheading combinations may differ.

```
SS 1 /C?
USER:
nbrdet reye's syndrome                                        STEP 1

PROG:

SELECT #  POSTINGS  TERM
  1         132     REYE (TW)
  2           1     REYE DN (AU)
  3         130     REYE'S SYNDROME (MH)
  4          13     REYE'S SYNDROME/BL (MH)
  5          33     REYE'S SYNDROME/CI (MH)
UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:
10
PROG:

SELECT #  POSTINGS  TERM
  6           1     REYE'S SYNDROME/CL (MH)

  ....        ....

 21           9     REYE'S SYNDROME/TH (MH)
 22           2     REYE'S SYNDROME/UR (MH)
 23         109     *REYE'S SYNDROME (MH)
 24           7     *REYE'S SYNDROME/BL (MH)
 25          23     *REYE'S SYNDROME/CI (MH)
 26           1     *REYE'S SYNDROME/CL (MH)
 27           1     *REYE'S SYNDROME/CO (MH)
 28          20     *REYE'S SYNDROME/DI (MH)
 29           4     *REYE'S SYNDROME/EN (MH)
UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:
10

PROG:

SELECT #  POSTINGS  TERM
 30          14     *REYE'S SYNDROME/ET (MH)
 31           1     *REYE'S SYNDROME/FG (MH)
  ....        ....

 38           3     *REYE'S SYNDROME/TH (MH)
 39           1     *REYE'S SYNDROME/UR (MH)
 40           1     REYER (TW)
 41           1     REYERS F (AU)
 UP N OR DOWN N OR ENTER A SELECT COMMAND.

USER:
sel 23                                                        STEP 2
PROG:
SS (1) PSTG (109)

SS 2 /C?
USER:
sel 24-39                                                     STEP 3

PROG:
SS (2) PSTG (106)

SS 3 /C?
USER:
1 and not 2                                                   STEP 4

PROG:
SS (3) PSTG (3)
```

Figure 1A

```
SS 4 /C?
USER:
prt ti, mh compr

PROG:

1
TI  - Reye's syndrome. Salicylate metabolism, viral antibody levels,
      and other factors in surviving patients and unaffected family
      members.
MH  - Adolescence ; Adult ; Antibodies, Viral/*ANALYSIS ; Child ;
      Comparative Study ; Female ; Follow-Up Studies ; Human ; HLA
      Antigens/ANALYSIS ; Male ; Orthomyxoviruses Type A/IMMUNOLOGY ;
      Psychological Tests ; *Reye's Syndrome/COMPLICATIONS/FAMILIAL &
      GENETIC/IMMUNOLOGY/METABOLISM ; Salicylic Acids/BLOOD/
      *METABOLISM ; Varicella-Zoster Virus/IMMUNOLOGY

2
TI  - [Reye's syndrome]
MH  - Child ; English Abstract ; Human ; *Reye's Syndrome/DIAGNOSIS/
      ETIOLOGY/OCCURRENCE

3
TI  - Mouse influenza B virus model of Reye's syndrome.
      Encephalopathy and microvesicular fatty metamorphosis of the
      liver by influenza B virus following intravenous administration
      in mice.
MH  - Animal ; Brain/PATHOLOGY ; Brain Edema/ETIOLOGY/PATHOLOGY ;
      *Disease Models, Animal ; Fatty Liver/ETIOLOGY/PATHOLOGY ;
      Influenza/*COMPLICATIONS ; Lipids/ANALYSIS ; Liver/
      ULTRASTRUCTURE ; Mice ; Mice, Inbred BALB C ; Orthomyxoviruses
      Type B ; *Reye's Syndrome/ETIOLOGY/PATHOLOGY ; Support, U.S.
      Gov't, Non-P.H.S. ; Support, U.S. Gov't, P.H.S. ; Vacuoles/
      ANALYSIS/ULTRASTRUCTURE
```

Figure 1B

Alternatively, this whole procedure may also be accomplished with only a single search statement at "**STEP 2.**"

```
SS 1 /C?
USER:
sel 23 and not sel 24-39                    STEP 2
```

Figure 1C

Serials Update

INDEXED TITLES UPDATE, DECEMBER 1987

The following titles cited in MEDLINE, HEALTH, and POPLINE have recently been selected for indexing, undergone a title change, or ceased publication. This list is not cumulative; the information provided is only for titles whose status has changed since the last UPDATE. More detailed information may be found in SERLINE. For further information, please contact MMS or Ms. Esther Baldinger, (301) 496-1276, Technical Services Division, NLM.

TITLES SELECTED FOR INDEXING, NOVEMBER 1987

IM GENOMICS
GENOMICS
1N1,SEP 1987--
ACADEMIC PRESS
DULUTH MN UNITED STATES
INDEXING BEGAN WITH V1N1,1987.
IN PROCESS 0888-7543
SR0058184 JC: GEN
ACADEMIC PRESS INC.,JOURNAL PROMOTION DEPT.,1250 SIXTH AVENUE,SAN DIEGO CA 92101

HLI HEALTH PROMOTION
HEALTH PROMOT
1N1,MAY 1986--
OXFORD UNIVERSITY PRESS
OXFORD ENGLAND
INDEXING BEGAN WITH V1N1,1986.
W1 HE487H 0268-1099
SR0055400 JC: HPM

TITLE CHANGES, NOVEMBER 1987

HLI CATHOLIC HEALTH ASSOCIATION OF CANADA REVIEW
CATHOL HEALTH ASSOC CAN REV
15N1,SPRING 1987--
CATHOLIC HEALTH ASSOCIATION OF CANADA
OTTAWA CANADA
CONTINUES: CHAC REVIEW.
IN PROCESS
SR0061265 JC: CAT

IM CHUNG-HUA CHIEH HO HO HU HSI TSA CHIH
CHUNG HUA CHIEH HO HO HU HSI TSA CHIH
10N1,FEB 1987--
CHINESE MEDICAL ASSOCIATION
BEIJING CHINA
CONTINUES: CHUNG-HUA CHIEH HO HO HU HSI HSI CHI PING TSA CHIH. CALLED ALSO: CHINESE JOURNAL OF TUBERCULOSIS AND RESPIRATORY DISEASES; ZHONGHUA JIEHE HE HUXI ZAZHI.
W1 CH979F
SR0061189 JC: CYH

HLI HEALTHCARE FORUM JOURNAL
HEALTHC FORUM J
30N4,JUL-AUG 1987--
HEALTHCARE FORUM
SAN FRANCISCO UNITED STATES
CONTINUES: HEALTHCARE FORUM.
IN PROCESS
SR0061268 JC: HCJ

IM JOURNAL OF CLINICAL EPIDEMIOLOGY
J CLIN EPIDEMIOL
1988--
PERGAMON
OXFORD ENGLAND
CONTINUES: JOURNAL OF CHRONIC DISEASES.
ON ORDER
SR0061216 JC: JCE

HLI JOURNAL OF THE INSTITUTE OF HOSPITAL ENGINEERING
J INST HOSP ENG
41N8,SEP 1987--
INSTITUTE OF HOSPITAL ENGINEERING
PORTSMOUTH ENGLAND
CONTINUES: HOSPITAL ENGINEERING.
IN PROCESS
SR0061198 JC: JOE

TITLES NO LONGER INDEXED AS OF NOVEMBER 1987

HLI ORGANIZATIONAL BEHAVIOR AND HUMAN DECISION PROCESSES
ORGAN BEHAV HUM DECIS PROCESS
35N1,FEB 1985--
ACADEMIC PRESS
SAN DIEGO CA UNITED STATES
CONTINUES: ORGANIZATIONAL BEHAVIOR AND HUMAN PERFORMANCE.
INDEXING CEASED WITH V40N3,DEC 1987.
W1 OR663FE 0749-5978
SR0052180 JC: PCL

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

National Institutes of Health
National Library of Medicine
Bethesda MD 20894

December 21, 1987

Dear Domestic MEDLARS User

This is to notify you that on January 1, 1988, the pricing structure of CHEMLINE and the TOXLIT files (TOXLIT and TOXLIT65) will be modified in response to increases in the 1988 royalty rates charged by Chemical Abstracts Service (CAS), and BioSciences Information Service (BIOSIS), the suppliers of proprietary data for these files.

To reflect these changes, the NLM Online Pricing Algorithm has been updated in the Connect Charge, Search Statement Charge, and Citation Charge components. Based on past experience, we estimate that the approximate average hourly rate in Prime Time for CHEMLINE will be $94, and that for TOXLIT and TOXLIT65 will be $133. An individual's actual hourly rate will vary, of course, based on total resources used.

This year CAS has instituted new license agreements that require measuring and reporting of new parameters for online use. Negotiations about these requirements have only recently been completed, allowing little time for notification of users before the start up of the new license. Some of these changes are reflected in the updated NLM Online Pricing Algorithm.

Please see Table I on the reverse side of this letter for the new NLM rates for the six components of the online algorithm. Additionally, note that offline page charges have been increased due to royalty charges. NLM has not increased any of its component charges for these files. The NLM portion of the total price reflect the rate established for the October 1, 1987 MEDLARS Pricing Structure. For your information, Table II gives a further breakdown of changes in royalties by supplier of information.

Sincerely yours,

Lois Ann Colaianni

Lois Ann Colaianni
Associate Director
Library Operations

Henry M. Kissman

Henry Kissman, Ph.D.
Associate Director
Specialized Information Services.

(over)

TABLE I

New NLM Rates for CHEMLINE, TOXLIT, TOXLIT65

January 1, 1988

NLM ONLINE PRICING ALGORITHM CHARGES TO DOMESTIC USERS

Files	Connect Charge (Per Hour)		Search Statement Charge	Online Citation Charge	Interaction Charge (Carriage Returns)	Computer Resources (Disk Accesses) (Per 100)		Online Character Charge (Per 1,000)	
	Non-Prime	Prime				Non-Prime	Prime	Non-Prime	Prime
CHEMLINE	$59.10*	$61.85*	$0.10*	$0.30*	$0.01	$0.07	$0.13	$0.08	$0.12
TOXLIT & TOXLIT65	$74.21**	$76.96**	$0.17**	$0.25**	$0.01	$0.07	$0.13	$0.08	$0.12

* Includes Royalty of $54.00 Per Connect Charge, $0.08 per Search Statement, and $0.29 Per Online Citation Charge
** Includes Royalty of $69.11 Per Connect Charge, $0.15 per Search Statement, and $0.24 Per Online Citation Charge

NLM OFFLINE CHARGES TO DOMESTIC USERS

Pages	Per Page	
CHEMLINE	$1.65	(Includes $1.40 Royalty Charge)
TOXLIT & TOXLIT65	$0.98	(Includes $0.73 Royalty Charge)

AUTOMATIC SDI SEARCHES (plus page charges)

TOXLIT	$4.00	Per search (Includes $3.00 Royalty Charge)

TABLE II

1987-1988 Online Royalties by Supplier
For CHEMLINE, TOXLIT, TOXLIT65

		TOXLIT, TOXLIT65			CHEMLINE		
		Connect Charge	Online Citation Charge	Search Statement Charge*	Connect Charge	Online Citation Charge	Search Statement Charge*
CAS	1987	$54.00	$0.197	$0.00	$54.00	$0.257	$0.00
	1988	54.00	0.219	0.159	54.00	0.288	0.080
ASHP	1987	10.00	0.006	0.00	---	---	---
	1988	10.00	0.006	0.00	---	---	---
BIOSIS	1987	4.60	0.0125	0.00	---	---	---
	1988	5.11	0.0135	0.00	---	---	---

* Based on estimated search terms used

Current prime time is 10:00 AM to 5:00 PM Eastern Time, Monday through Friday.
All other time is non-prime.

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CHANGE OF ADDRESS FORM
(U.S. users only)

Please print or type.

User ID Code _____ (Must be included)

New Billing Address:

Name: _____

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Telephone: _____

New Administrative/NLM Technical Bulletin Address:

Name: _____

_____

_____

_____

_____

Telephone: _____

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Signature

_____
Printed Name

_____
Date

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