LIBRARY NETWORK/MEDLARS TECHNICAL BULLETIN
of the
Library Component of the Biomedical Communications Network

JANUARY 1977

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
National Institutes of Health
PLEASE QUERY THE ON-LINE NEWS FILES DAILY AT NLM FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the heading of each Technical Note will include a reference to the section/page of the NLM On-Line Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual II-9). Users should keep in mind that the item may pertain to other sections of the Manual.

JOURNAL CITATION DATABASES

MEDLINE and SDILINE were updated with January 77 citations on December 20th. The sizes, Index Medicus date ranges and entry dates are given below:

- MEDLINE (Jan 75 - Jan 77) 571,622 (Entry dates 741205 to 761203)
- SDILINE (January 77) 21,626 (Entry dates 76121 to 761203)

SDILINE & MEDLINE UPDATES, 1977 (Manual VI-1)

The following is the projected schedule of SDILINE and MEDLINE updates for January 1977 through January 1978. All dates fall on Monday.

<table>
<thead>
<tr>
<th>Index Medicus Month</th>
<th>Date SDILINE &amp; MEDLINE Available</th>
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<tbody>
<tr>
<td>January 1977</td>
<td>December 20, 1976</td>
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<tr>
<td>February 1977</td>
<td>January 10, 1977</td>
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<td>March 1977</td>
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<td>April 1977</td>
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<td>May 1977</td>
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<td>June 1977</td>
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<td>December 1977</td>
<td>November 7, 1977</td>
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<tr>
<td>January 1978</td>
<td>December 12, 1977</td>
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</table>

AUTOMATIC SDI SCHEDULE, 1977 (Manual XVI-11)

Searches stored on the NLM computer to be run as Automatic SDI's will be processed and mailed as soon as practicable after each month's update has occurred, usually on the Monday or Tuesday of the week of the update.

PLACE OF PUBLICATION (PL), COUNTRIES ONLY

Cities and states are not searchable as a place of publication in MEDLINE. In the MEDLINE files, the place of publication (PL) field contains only the country in which the journal title is published. These countries of publication are the same as the geographic main headings listed in the Alphabetic MeSH and in the "Z" category of the MeSH Tree Structures.

NTIS FOREIGN DISTRIBUTION POLICY (Manual IV-11)

The National Technical Information Service, which distributes MEDLARS tools and other technical reports, has announced a new policy affecting orders from the United Kingdom, France, Belgium, Switzerland, and Japan. Orders originating in these countries must now be sent to the managing dealers listed below, rather than to NTIS. Prices may differ somewhat from those quoted for U.S. purchasers.

- United Kingdom:
  - Microinfo Ltd.
  - The Post House
  - High Street
  - Alton, Hampshire
  - England, GU341EF

- France, Belgium, and Switzerland:
  - Center for Business Information
  - 7 Rue Buffon
  - 75005 Paris
  - France

- Japan:
  - Mitsubishi Research Institute, Inc.
  - 1-8-1 Yuraku-cho
  - Chiyoda-ku
  - Tokyo 100, Japan

CANCERPROJ, FREE USE - JANUARY 77 (Manual XVIII)

To encourage users of CANCERPROJ to become more familiar with the file, the National Cancer Institute absorbed connect time charges for all users of CANCERPROJ during December 1976. This has been extended through January 31, 1977. Users accessing CANCERPROJ during January will pay for pages generated off-line.

TYMSHARE NUMBERS (Manual II-9)

The following Tymshare Numbers should no longer be used to access the National Library of Medicine's on-line services.

- Albany, New York: 518/463-7452
- Harrisburg, Pennsylvania: 717/233-1647
- Harrisburg, Pennsylvania: 717/233-1648

Issued monthly by the Office of the Associate Director for Library Operations. Grace H. McCarn, Editor; Yvonne B. Scott, Assistant Editor; Leonard J. Rahmlow, Technical Notes Editor. Direct inquiries to MEDLARS Management Section, National Library of Medicine, 8600 Rockville Pike, Bethesda, Md. 20014 (TWX: 710-524-9616). The contents of this publication are not copyrighted and may be freely reproduced.
Almost six years have passed since the last discussion on head injuries published in this bulletin, May 1971, pp. 9-12. With almost the same number of generations of new MEDLINE searchers, it might be easier to repeat most of the admonitions in that article than to refer to the original article. By this article I am reinforcing indexing policy for earlier MEDLINE searchers and outlining it for the new who do not have access to the old bulletins.

We cannot discuss HEAD INJURIES, however, unless we first discuss HEAD. Part of the difficulty in indexing and searching lies in the mixed definitions of "head" - the definitions implied by MeSH in its formal arrays and the dictionary definitions - vis-à-vis mixed uses by authors using both common parlance and anatomical preciseness.

1. Does "head" include hard and soft tissues? Does it include "scalp"? Does it include "skull"? Does it include "brain"?

When an indexer sees "head" in a title, he looks to see exactly what the text of the author says or means and indexes accordingly. Compare the MeSH arrays below:

A1...

HEAD
  EAR
  FACE
  CHEEK
  CHIN
  EYE
  EYEBROWS
  EYELIDS
  EYELASHES
  FOREHEAD
  MOUTH
  LIP
  NOSE
  SCALP

A2...

SKULL
  CRANIAL FOSSA, POSTERIOR
  ETHMOID BONE
  CRIBRIFORM PLATE
  FRONTAL BONE
  OCCIPITAL BONE
  FORAMEN MAGNUM
  PARIETAL BONE
  SPHENOID BONE
  SELLA TURCICA
  TEMPORAL BONE
  MASTOID
  PETROUS BONE

2. Similarly, what then does "head injuries" mean? Again, when an indexer sees "head injuries" in a title, he looks to see exactly what the text of the author says or means and indexes accordingly with the following provisos in mind:

a. HEAD INJURIES is a very general term and is indexed as such when no specific part of the head is discussed.

b. HEAD INJURIES, being general, is not a substitute for specific parts of the head, as shown in paragraph 1 above, paired with the subheading /injuries.

c. If "head injury" does not specify the site, HEAD INJURIES is the correct indexing term.

If the site is given, the indexer indexes under the site with the subheading /injuries, as ORBIT/injuries, FRONTAL BONE /injuries, AND DOES NOT ALSO INDEX UNDER HEAD INJURIES.

3. Because of the common occurrence of HEAD INJURIES and all types of head injury, MeSH has supplied us with many precoordinated head-injury concepts. Here they are from C21 (the groupings show possible explosions):

HEAD INJURIES
  BRAIN INJURIES, ACUTE
  CEREBROSPINAL OTORRHEA
  CEREBROSPINAL RHINORRHEA
  PNEUMOCEPHALUS
  SKULL FRACTURES

BRAIN INJURIES, ACUTE
  BRAIN CONCUSSION
  EPILEPSY, TRAUMATIC
  PSYCHOSES, TRAUMATIC
JUDICIOUS USE OF STRINGSEARCH IN ON-LINE AND OFF-LINE SEARCHING

David L. Kenton, Staff Assistant, OCCS

In August 1973, an article entitled "MEDLINE Search Optimization for Efficient Processing" appeared in the Library Network/Medlars Technical Bulletin (pp 8-17). Although this article was published before the present ELHILL 3 program was installed and mainly addressed the searching algorithms of ELHILL 2, many of its guidelines remain remarkably current to our present system. We recommend its review by users of the MEDLINE service.

In order to write a sequel to the article, it would be necessary to address all the changes introduced with ELHILL 3 which would dilute the main purpose of this article; therefore this presentation will deal exclusively with one subject. Subsequent articles will cover additional aspects of offsearching.

STRINGSEARCHING (TS, STRS) uses more machine resources than any other function in ELHILL 3. Why? When a user executes this function, the machine is forced to examine each citation individually and interrogate it looking for the requested character string(s). It requires about the same time for the machine to TS one citation as to print it. Hence, the STRINGSEARCHing or printing of large number of citations should be avoided. Sometimes it cannot be avoided, but then one must try to "reduce" the number of citations to be TS'ed. This article will present some ways to limit the number of citations when searching and some suggestions as to when and how to use STRINGSEARCH.

ON-LINE USE

The NLM recommends that the user pull ENG (LA), HUMAN (MH) and other highly-posted terms from a subsearch of 200 or less citations in the MEDLINE (not SDILINE) database by doing a STRINGSEARCH as follows:

PROG: SS 1/C?
USER: DOPA AND DOPAMINE AND METHYLDOPA
PROG: SS (1) PSTG (11)
SS 2/C?
USER: TS : HUMAN : (MH) AND :ENG: (LA)
PROG: SS (2) PSTG (3)
(note: no time overflows)
SDILINE should be directly searched for ENG (LA), HUMAN (MH), etc. since it is a comparatively small file.

This use of STRINGSEARCH on-line is time-saving both for the user and the system. If more than 200 citations are to be subset in MEDLINE, TS should not be used since direct searching is more economical. In the above example, SS 2 would become:

USER: 1 AND HUMAN (MH) AND ENG (LA)
(note: this will result in time overflows but will still be faster than STRINGSEARCHing)

If a user actually has a need to TS, looking for particular words or phrases in the title or abstract, after a concept has been searched, then the use of a text word (TW) search before TS will reduce the number of citations considerably. For example, a user constructed a concept in six search statements using MeSH as the selection vehicle. At that point, the user wished to refine the search by requiring that the title field of the last subset contain the words "failure" and "thrive". The search was injudiciously completed as follows:

PROG: SS (6) PSTG (17491)
SS 7/C?
USER: TS : FAILURE: (TI) AND: THRIVE: (TI)

This retrieved an answer but took an inordinate amount of time to perform. (The average search takes 10 seconds; this search took 20 minutes.) The same answer would have been achieved by the following example but would have taken only 1% as much of the computer resources:

USER: 6 AND ALL FAILURE: (TW) AND ALL THRIVE: (TW)
PROG: SS (7) PSTG (150)
SS 8/C?
USER: TS : FAILURE: (TI) AND : THRIVE: (TI)

SS 7 would contain "failure" and "thrive" in the abstract or title fields; SS 8 restricted it to the title. Note that in the first example 17,491 citations were TS'ed - in the second example only 150 citations. Both got the same answer but the second is much less expensive in computer time.

We do recognize that there are some cases where text word searching cannot be used to further subset a concept before using TS, but every effort should be made to use TS the fewest number of citations possible. This basic rule applies to both on-line and off-line use.

OFFSEARCH

Never STRINGSEARCH a concept to limit the result to the highly posted terms (HUMAN, ENG, ENGLISH ABSTRACT, etc.). Why? When using the PSTG option for on-line outputs when OFFSEARCHing MEDLINE and/or backfiles, the NLM recommends that the user be connected to the SDILINE database whenever possible. This creates much less work for the system and fewer time overflows for the user, yet still allows "browsing". Thus, the user has no way to know whether the retrieval is below or above the 200 citation limit.

For these reasons we request that you never TS in OFFSEARCH to restrict your search to highly posted terms. Instead, use the highly-posted terms directly.

The recommendations stated actually lead to a contradiction, namely: what do I do if I am in an OFFSEARCH and specify on-line outputs of PSTG? The user will be searching on-line and causing an OFFSEARCH to be run off-line. In this case, the search should follow the OFFSEARCH rule and TS should not be used to restrict searches to highly posted terms.

AVOIDANCE OF STRINGSEARCH

Recently, a particular search came to my attention. A user with an intermediate search result of 23,000 citations wished to find the prefix "nephr" in either the title or the abstract field, intending to find words such as nephritis, nephrogenic, nephrosis, nephron, etc. The user had done the following:

PROG: SS (1) PSTG (23000)
SS 2/C?
USER: TS : NEPHR: (TI) OR : NEPHR: (AB)

This is a very expensive search (roughly the equivalent of printing 23,000 citations) which can and must be avoided. Since individual words in the title and abstract are directly searchable as text words (TW), the user should have input the following SS in the previous example:

PROG: SS (1) PSTG (23000)
SS 2/C?
USER: 1 AND ALL NEPHR: (TW)

The first search would run several hundred times longer than this one but both retrieve the same citations. Therefore, we hope you will utilize the second example whenever possible.

USE OF STRINGSEARCH

There are cases where TS cannot be avoided. A user may wish to restrict an existing search to a stem (root) which may occur as a prefix or an imbedded concept. An example of this is "fluor" which may occur as a prefix in fluoride, fluorine, fluoridation, etc. and may occur as an imbedded stem in words starting with monofluor, difluor, polyfluor, etc. If "fluor" were being searched as an imbedded concept, then TS would have to be used. It is hoped that the user will have retrieved a small enough subset of citations such that the STRINGSEARCH will not prove to be too expensive.
**RECAP OF NLM RECOMMENDATIONS**

1. Use TS on-line to restrict a search to highly posted terms, when the subset is smaller than 200 citations (in the MEDLINE database). Then use all the terms at once such as:
   
   TS HUMAN (MH) AND ENG (LA) AND-CHILD: (MH)
   
   (note: CHILD: (MH) will retrieve CHILD or CHILD,PRESCHOOL)

2. Do not use TS in the above example when in OFFSEARCH mode or when connected to SDILINE (regardless of the citation count).

3. When searching a prefix, use text words and text word truncations (# or :).
   
   (Note: rules 1-3 apply to MEDLINE and the back-files; rule 3 applies to all databases, including TOXLINE.)

It is imperative that users make every effort to adhere to these searching techniques to avoid system degradation and delays in the delivery of OFFSEARCHes and OFF-LINE prints. NLM is investigating the imposition of an automatic limit on the duration of individual OFFSEARCHes.

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**RESPIRATION: A HEDGE**

Mary Hantzes, Index Section, BSD

In MEDLARS, RESPIRATION is a synonym for breathing and is used with reference to the lungs and the rest of the respiratory tract. It is not to be construed as "tissue respiration", a metabolic concept covered in MEDLARS by OXYGEN CONSUMPTION or other more specific aspects of tissue metabolism.

The hedge below is the MeSH coverage of terms known and of potential significance in the field of respiration. As with all hedges, the indexer and searcher will pick and choose among them, for they have varying degrees of pertinence.

Complete trees will not be reproduced here: it will be necessary for the user of the hedge to resort to Medical Subject Headings, Tree Structures for entire trees. We have included, however, branches of trees, i.e., discrete portions of trees for easy reference with this hedge in hand.

- **A2** - DIAPHRAGM
  - INTERCOSTAL MUSCLES
  - RIBS
  - THORAX (exploded)

- **A4** - RESPIRATORY SYSTEM: see MeSH (RESPIRATORY SYSTEM is a synonym for "respiratory tract")

- **A7** - Blood vessels to and from the lungs:
  - PULMONARY ARTERY
  - PULMONARY VEINS

- **A8** - Organs involved in the neurological control of respiration:
  - CAROTID BODY
  - MEDULLA OBLONGATA
  - PHRENIC NERVE
  - PULMONARY STRETCH RECEPTORS
  - RETICULAR FORMATION
  - RESPIRATORY CENTER
  - THORACIC NERVES
    - INTERCOSTAL NERVES
    - VAGUS NERVE
  - LARYNGEAL NERVES
    - RECURRENT LARYNGEAL NERVE

- **A12** - Body secretion and fluids related to respiration:
  - MUCUS (when coordinated with a respiration term (A4))
  - PLEURAL EFFUSION
  - SPUTUM

- **A13** - Organs in animals only:
  - AIR BLADDER (fish)
  - AIR SACS (birds)
  - GILLS (fish, fish-like vertebrates and amphibians)

- **C1** - Respiratory infections in this tree not also in the respiratory disease tree (C8):
  - PLEUROPNEUMONIA, CONTAGIOUS
  - TUBERCULOSIS IN CHILDHOOD (if primary complex)
  - WHOOPING COUGH

- **C4** - Respiratory tract neoplasms:
  - PLEURAL NEOPLASMS
  - RESPIRATORY TRACT NEOPLASMS
  - BRONCHIAL NEOPLASMS
  - LUNG NEOPLASMS
    - CARCINOMA, BRONCHIOLAR
    - CARCINOMA, BRONCHOGENIC
    - COIN LESION, PULMONARY
    - PANCOAST'S SYNDROME
    - TRACHEAL NEOPLASMS
    - NASAL POLYPS

- **C8** - RESPIRATORY TRACT DISEASES: see MeSH

- **C9** - Nasal, laryngeal and related diseases:
  - LARYNGEAL DISEASES
    - LARYNGEAL EDEMA
    - LARYNGEAL NEOPLASMS
    - LARYNGEAL PERICHONDritis
    - LARYNGISMS
    - LARYNGITIS
    - CROUP
    - LARYNGOSTENOSIS
    - TUBERCULOSIS, LARYNGEAL
    - VOCAL CORD PARALYSIS
NASOPHARYNGEAL DISEASES
NASOPHARYNGEAL NEOPLASMS
NOSE DISEASES
CEREBROSPINAL RHINORRHEA
EPISTAXIS
GRANULOMA, LETHAL MIDLINE
HAY FEVER
NASAL POLYPS
NOSE DEFORMITIES
NOSE NEOPLASMS
RHINITIS
RHEUMATOID RHINITIS
PARASINUS DISEASES
PARASINUS NEOPLASMS
SINUSITIS
KARTAGENER TRIAD
PHARYNGEAL DISEASES
ABSCESSES, PERITONSILLAR
PHARYNGEAL NEOPLASMS
TONSILLAR NEOPLASMS
PHARYNGITIS
NASOPHARYNGITIS
SORE THROAT
TONSILLITIS

C14 - Vascular diseases affecting respiration:
HYPERTENSION, PULMONARY
PULMONARY EMBOLISM

C16 - Respiratory tract abnormalities:
ASPHYXIA NEONATORUM
BRONCHOPULMONARY SEQUESTRATION
FUNNEL CHEST
RESPIRATORY DISTRESS SYNDROME
HYALINE MEMBRANE DISEASE

C20 - Respiratory allergies:
RESPIRATORY HYPERSENSITIVITY
ASTHMA
ALVEOLITIS, EXTRINSIC ALLERGIC
BIRD FANCIER'S LUNG
FARMER'S LUNG
HAY FEVER

C21 - Occupational diseases, poisoning and injuries affecting respiration:
AGRICULTURAL WORKERS' DISEASES
FARMER'S LUNG
SILO FILLER'S DISEASE
BIRD FANCIER'S LUNG
DECOMPRESSION SICKNESS
INERT GAS NARCOSIS
PNEUMOCONIOSIS
ASBESTOSIS
BAGASSOSIS
BYSSINOSIS
CAPLAN'S SYNDROME
SILICOSIS
ANTHRACOSILICOSIS
SILICOTUBERCULOSIS
GAS POISONING
CARBON MONOXIDE POISONING
ILLUMINATING GAS POISONING
INERT GAS NARCOSIS
ASPHYXIA
BURNS, INHALATION
DROWNING

C22 - Respiratory diseases of animals:
INFECTIONOUS BOVINE RHINOTRACHEITIS
MALIGNANT CATARRH
PNEUMONIA, ATYPICAL INTERSTITIAL, OF CATTLE
PNEUMONIA, PROGRESSIVE INTERSTITIAL, OF SHEEP
PULMONARY ADENOMATOSIS, OVINE
TUBERCULOSIS, AVIAN
TUBERCULOSIS, BOVINE

C23 - Respiratory signs and symptoms:
ANOXIA
ALTITUDE SICKNESS
ANOXEMIA
APNEA
CHEYNE-STOKES RESPIRATION
COUGH
DYSNEA
DYSNEA, PAROXYSMAL
HOARSENESS
HYPERCAPNIA
HYPERVENTILATION
HYPOVENTILATION
MOUTH BREATHING

D16 - BRONCHODILATOR AGENTS (exploded)
D23 - ANTITUSSIVE AGENTS (exploded)
D24 - ALLERGENS
POLLEN
PULMONARY SURFACTANT
TUBERCULOSIS VACCINES
BCG VACCINE

E1 - Respiratory diagnostic methods:
BRONCHOGRAPHY
BRONCHOSCOPY
MASS CHEST X-RAY
RESPIRATORY FUNCTION TESTS
AIRWAY RESISTANCE
BLOOD GAS ANALYSIS
OXIMETRY
LUNG COMPLIANCE
LUNG VOLUME MEASUREMENTS
EXPIRATORY RESERVE VOLUME
FUNCTIONAL RESIDUAL CAPACITY
INSPIRATORY CAPACITY
INSPIRATORY RESERVE VOLUME
RESIDUAL VOLUME
TIDAL VOLUME
TOTAL LUNG CAPACITY
VITAL CAPACITY
PLETHYSMOGRAPHY, WHOLE BODY
PULMONARY DIFFUSING CAPACITY
RESPIRATORY AIRFLOW
FORCED EXPIRATORY FLOW RATES
MAXIMAL EXPIRATORY FLOW RATE
MAXIMAL EXPIRATORY FLOW-VOLUME CURVES
MAXIMAL MIDEXPIRATORY FLOW RATE
PEAK EXPIRATORY FLOW RATE
FORCED EXPIRATORY VOLUME
MAXIMAL VOLUNTARY VENTILATION
RESPIRATORY DEAD SPACE
SPIROMETRY
BRONCHOSPIROMETRY
VALSALVA'S MANEUVER
VENTILATION-PERFUSION RATIO
WORK OF BREATHING
AUSCULTATION
PALPATION
PERCUSSION
LARYNGOSCOPY
THORACOSCOPY
THORACIC RADIOGRAPHY (exploded)

E2 - Respiratory therapy technics:
BREATHING EXERCISES
INHALATION THERAPY
OXYGEN INHALATION THERAPY
HYPERBARIC OXYGENATION
POSITIVE-PRESSURE RESPIRATION
INTERMITTENT POSITIVE-PRESSURE BREATHING
RESPIRATION, ARTIFICIAL
RESUSCITATION

E3 - ANESTHESIA, INHALATION
ANESTHESIA, INTRATRACHEAL

E4 - Surgery of the respiratory tract:
SURGERY, LUNG (NON MESH)
COLLAPSE THERAPY
PNEUMOTHORAX, ARTIFICIAL
PNEUMONECTOMY
PNEUMONOLYSIS
THORACOPLASTY
THYMECTOMY
TRACHEOTOMY
ADENOIDECTOMY
LARYNGECTOMY
RHINOPLASTY
RADICAL NECK DISSECTION
SURGERY, EAR (NON MESH)
FENESTRATION
MYRINGOPLASTY
STAPES SURGERY
STAPES MOBILIZATION
TYMPANOPLASTY
TONSILLECTOMY
TRACHEOTOMY

E5 - ADMINISTRATION, INTRANASAL
INTUBATION, INTRATRACHEAL

E7 - ATMOSPHERE EXPOSURE CHAMBERS
FLOWMETERS
INCUBATORS
INCUBATORS, INFANT
OXYGENATORS
OXYGENATORS, MEMBRANE
RESPIRATORY PROTECTIVE DEVICES
Masks
RESPIRATORS

The following terms are useful but have a less direct connection with respiration:

D5 - AIR POLLUTANTS
AIR POLLUTANTS, ENVIRONMENTAL
AUTOMOBILE EXHAUST
NITROGEN OXIDES
OXIDANTS, PHOTOCHEMICAL
SULFUR OXIDES
AIR POLLUTANTS, OCCUPATIONAL
AIR POLLUTANTS, RADIOACTIVE

G3 - Environmental aspects relating to respiration:
ENVIRONMENT
ALITUDE
ENVIRONMENT, CONTROLLED
AIR CONDITIONING
DIVING
EXTRATERRESTRIAL ENVIRONMENT
LIFE SUPPORT SYSTEMS
SEALED CABIN ECOLOGY
HEATING
VENTILATION
METEOROLOGICAL FACTORS
ATMOSPHERE
AIR
AIR MOVEMENTS
WIND
ATMOSPHERIC PRESSURE
AIR PRESSURE
CLIMATE
COLD CLIMATE
POLAR REGIONS
DESERT CLIMATE
MICROCLIMATE
TROPICAL CLIMATE
WEATHER
HUMIDITY
TEMPERATURE
COLD
HEAT
SEASONS

ENVIRONMENTAL POLLUTION
AIR POLLUTION
AIR POLLUTION, RADIOACTIVE
AUTOMOBILE EXHAUST
DUST
SMOKE
SMOG

Miscellaneous headings of possible interest:
AEROSOLS (D26, J1)
AEROSOL PROPELLANTS (D26, J1)
GLUE SNiffING (F1, F3, I1)
SMOKING (F1, F3)
THORACIC INJURIES (C21)
HEART, MECHANICAL (E7)
ACCLIMATIZATION (G7)
MOUNTAINEERING (I3)
AVLINE UPDATE

Virginia White, Technical Services Division, NLM

AVLINE UPDATE becomes a regular feature of Library Network/MEDLARS Technical Bulletin with this issue. It will contain information on cataloging decisions and AVLINE policies, progress reports, suggestions for searching the data base, and other items of interest to AVLINE users.

AVLINE PROGRESS

During the fall of 1976 the technical services functions associated with the processing of nonprint media (i.e., the selection, acquisition, and cataloging of audiovisuals) have been consolidated with the processing of the print materials. These functions have been incorporated into the workflow of the Technical Services Division. Since September 1976, 1434 titles produced since 1973 have been ordered for AVLINE. In addition, review sessions have been held at NLM and the Medical College of Virginia. To date, 2339 titles have been cataloged, indexed, and abstracted for the AVLINE data base.

The Association of American Medical Colleges (AAMC) is coordinating the appraisal process of all AVLINE titles through their Washington, D.C. headquarters. Individual audiovisual titles are distributed to health science professionals throughout the United States. Each primary reviewer prepares a critical abstract as part of the appraisal process.

THE NAME AUTHORITY FILE: A USEFUL AVLINE ADJUNCT

Use of the Name Authority File (NAF) can increase the utility of AVLINE and improve searching efficiency. The NAF is accessed by entering the command "FILE NAME" while logged into ELHILL 3 at NLM. It contains Authority records for all corporate, conference, and series names used in NLM's descriptive cataloging. All personal names requiring cross references and any personal name used more than once are also included.

- Searching the NAF: Each record in the Name Authority File is searchable from three major access points - the established form of the name, variant forms of the name, and an entry version based on the established form of the name. The established and variant forms of the name are directly searchable through the first 39 characters. The entry version is formed from the established form of the name by use of the following algorithms:
  1. Personal names with name dates: Surname Slash First and second initial 4. Birth year.
  Example: Established form of the name: Burke, John Gordon, 1938
  Entry version: BURKE/JG1938
  Corporate names or series titles: 1. First four letters of first word 2. Slash 3. First letter of every succeeding word in the name.
  Example: Established form of the name: Grady Memorial Hospital, Atlanta
  Entry version: GRAD/MHA

For a more detailed explanation of the entry version, see the On-line Services Reference Manual, pages IX-4 to IX-6 (Name Entry Version) and pages IX-8 to IX-9 (Series Entry Version).

- Use of the NAF for acquisitions: The AVLINE unit record contains, for each item, the name of the procurement source and the price. These can be retrieved with the command "PRINT LOAN. The address and telephone number for most procurement sources can be found in the Name Authority File. After retrieval of the name authority record for the procurement source, the command "PRINT AD will cause the address and telephone number to be printed.

- Use of the NAF for cataloging: When items not contained in AVLINE are being cataloged, the Name Authority File can be used to determine whether NLM has established the name in question and, if so, to determine the established form of the name.

- Use of the NAF for reference: When AVLINE is searched for audiovisuals associated with a particular person or corporate body, the established form of the name must be entered since AVLINE contains no cross references. If the established form of the name is not known, it may be determined by use of the Name Authority File. Cross references from variant forms of established names are directly searchable here, leading to easy retrieval of the name form to be entered in AVLINE.

The Name Authority File can diminish time spent searching AVLINE by making possible speedy retrieval of the established form of a personal or corporate name. It can also extend the usefulness of AVLINE by providing the addresses and telephone numbers of the procurement sources for AVLINE items.

For further information, please refer to the AVLINE section of the On-line Services Reference Manual. Additional information will be provided via the Technical Bulletin as it becomes available. Questions may be addressed to MEDLARS Management Section.
MEDLINE TRAINEES AT UCLA, DECEMBER 6 - 10, 1976

Rochelle M. Braunstein - Naval Regional Medical Center, San Diego, California
Lourdes T. Dorilag - Syntex (USA) Inc., Palo Alto, California
S. Marlow Englehardt - NADA Ames Research Center, Moffett Field, California
Sheri L. Kruyer - Los Angeles County Medical Assoc., Los Angeles, California
Mark A. Midbon - California State Univ., Fresno, California

Clifford L. Nestell - Loma Linda University, Loma Linda, California
Diane I. Reed - University of California, Riverside, California
Kathryn Walsh - University of California, Los Angeles, California
Joan S. Zenan - University of Nevada, Reno, Nevada

TOXLINE TRAINEES AT UCLA, DECEMBER 10 - 13, 1976

Helen Asher - St. Joseph Hospital, Orange, California
Marilyn Schwartz - Naval Regional Medical Center, San Diego, California
Eva Kratz - St. Francis Hospital of Lynwood, Lynwood, California
Sheri L. Kruyer - Los Angeles County Medical Assoc., Los Angeles, California
Mark A. Midbon - California State Univ., Fresno, California

Clifford L. Nestell - Loma Linda University, Loma Linda, California
Diane I. Reed - University of California, Riverside, California
Kathryn Walsh - University of California, Los Angeles, California
Joan S. Zenan - University of Nevada, Reno, Nevada

MEDLINE TRAINEES AT NLM, DECEMBER 13 - 17, 1976

Harriet Albersheim - Food and Drug Admin., Silver Spring, Maryland
Alyce Albrecht - Richardson-Merrell, Inc., Wilton, Connecticut
Maureen Canick - Georgetown University, Washington, D.C.
Eileen Emberson - Luther Hospital, Eau Claire, Wisconsin
Nancy Hewison - Tufts University, Boston, Massachusetts
Renee Johnson - Georgetown University, Washington, D.C.
Barbara Jones - Walter Reed Army Medical Center, Washington, D.C.

Alice Lee - Monsanto Company, St. Louis, Missouri
Donald Passidoma, Jr. - Veterans Administration Center, Wilmington, Delaware
Lavern Samb - La Crosse Lutheran Hospital, La Crosse, Wisconsin
Steven Sowell - Georgetown University, Washington, D.C.
Florence Summerlin - National Clearing House for Mental Health Information, Bethesda, Maryland
Wesley Taoka - Francis A. Countway Library of Medicine, Boston, Massachusetts
Barbara Thomas - Doctors Hospital, Washington, D.C.
The following substantive serial titles were received or ordered by the Serial Records Section during the month of December. An asterisk (*) next to the title indicates that an issue has actually been received in the library. PLEASE NOTE: NLM CANNOT FILL LOANS FOR TITLES WITHOUT THE ASTERISK (*). THEY HAVE NOT YET BEEN RECEIVED BY THE LIBRARY. The list is offered as an early announcement. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Betsy Humphreys, 301/496-1276, Technical Services Division, NLM.

*BANGLADESH MEDICAL RESEARCH COUNCIL BULLETIN
1, 1975--
Bangladesh Medical Research Council
Dacca, Bangladesh

*CATALOGUE OF JOHN ORR FOSTER REFERENCE LIBRARY
1, 1972--
Canada. National Institute of Mental Retardation
Downsview, Canada

*CATALOGUE OF JOHN ORR FOSTER REFERENCE LIBRARY. SUPPLEMENT
1, 1972--
Canada. National Institute on Mental Retardation
Downsview, Canada

CONTACT LENS FORUM
1, 1976--
Advisory Enterprises
White Plains, New York

*CUMULATED ANNOTATION - CLEARING HOUSE ON HEALTH INDEXES
1973/74--
U.S. Health Resources Administration
Rockville, Maryland

*CURRENT TITLES IN TURKISH SCIENCE
3, 1976--
Cont of Monthly Current Awareness Service on Scientific Publications: Series B. Foreign Edition
Tûrdûck
Ankara, Turkey

*DIABETES MELLITUS
4, 1975--
Cont of Diabetes Mellitus: Diagnosis and Treatment
American Diabetes Association
New York, New York

DIRECTORY OF NONMEMBER OSTEOPATHIC PHYSICIANS
1, 1976--
American Osteopathic Association
Chicago, Illinois

FOOD AND DRUG LETTER
1, 1976--
Washington Business Information
Washington, D.C.

FROM THE STATE CAPITALS: DRUG ABUSE CONTROL REPORT
1, 1973--
Bethune Jones
Asbury Park, New Jersey

*ILLINOIS CONFERENCE ON MEDICAL INFORMATION SYSTEMS
1, 1976--
Instrument Society of America
Pittsburgh, Pennsylvania

JOURNAL OF THE AMERICAN ACADEMY FOR FUNCTIONAL PROSTHODONTICS
1, 1976--
Doctors Dental Service
Chicago, Illinois

*JOURNAL - AMERICAN INTRA-OCULAR IMPLANT SOCIETY
2, 1976--
Cont of Newsletter - American Intra-Ocular Implant Society
American Intra-Ocular Implant Society
Santa Monica, California

MEDICAL DEVICES REPORTER
1, 1976--
Commerce Clearing House
Chicago, Illinois

MODERNE ARZNEIMITTEL THERAPIE
1, 1976--
Urban and Schwarzenberg
Freiburg, West Germany

PROCEEDINGS OF THE ANNUAL NEW ENGLAND BIOENGINEERING CONFERENCE
2, 1974--
Cont of New England Conference on Bioengineering
Pergamon Press
New York, New York

PROCEEDINGS - DARTMOUTH-HITCHCOCK CONFERENCE ON HEALTH CARE
1, 1975--
Dartmouth Medical School
Hanover, New Hampshire

SCHRIFTENREIHE - SCHWEIZERISCHE GESELLSCHAFT FUER KLINISCHE CHEMIE
1, 1973--
Chemie-Verlag Vogt
Solethum, Switzerland

SOCIETY FOR EXPERIMENTAL BIOLOGY SEMINAR SERIES
1976--
Cambridge University Press
Cambridge, England

TCA MANUAL
1, 1975--
U.S. Tissue Culture Association
Rockville, Maryland


94NLM: W3 FO49 no.29 1975
9XNLM: [WS 420 S9896d 1974]
IM
Cit. No. 7813555

04NLM: WU 108 S9899m 1975
IM
Cit. No. 7811800
TECHNICAL NOTES

PLEASE QUERY THE ON-LINE NEWS FILES DAILY AT NLM FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the heading of each technical note will include a reference to the section/page of the NLM On-Line Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual II-9). Users should keep in mind that the item may pertain to other sections of the Manual.

JOURNAL CITATION DATA BASES

MEDLINE and SDILINE at NLM and SDILINE at SUNY were updated with February 1977 citations on January 10. MEDLINE at SUNY was updated on January 24. The sizes, \( \text{MEDLINE (Jan 75 - Feb 77)} \) 595,028 (Entry dates 741205 to 770103) \( \text{SDILINE (February 77)} \) 23,406 (Entry dates 761204 to 770103)

SINGLE CHARACTER CORRECTIONS (Manual II-21)

Either the backward slash (\), or the backward arrow (\*), or the underscore (_) may be used for single character corrections on teletype compatible terminals.

TELENET, HALF-DUPLEX IDENTIFICATION (Manual II-9)

When logging in through TELENET, searchers may use either of the following methods to indicate that they will be operating in half-duplex.
1. Separate the two initial carriage returns with a semicolon. For example, 
   (cr) ; (cr)
2. In response to the \@ symbol, type HALF followed by a carriage return (each letter will be printed twice by TELENET). For example, 
   \@ HHAALLFF (cr)

'ALL' COMMAND AND ENTRY TERMS (Manual III)

Searchers using the ALL strategy must remember that MeSH entry terms will not be searched, unless they happen to also be text words (TW). The strategy ALL LIPID: will not retrieve citations indexed with the term LIPOIDOSIS even though there is an entry term LIPOIDOSIS to it.

NAMING STORESEARCHES (Manual XVI-13)

When storing searches (including those for automatic SDI's), only alphanumeric characters can be used in the search name. Special characters (\*,-,./,#) and boolean operators are forbidden.

"TIME, NEW COMMAND AT NLM (Manual III-29)

A new command, "TIME", may be entered after any USER: cue to determine the elapsed time from the initial login or from the last "TIME command executed. This command is not available on the SUNY system.

CHANGE IN AUTHOR LISTINGS, INDEX MEDICUS

In the past, citations in the Author Section of Index Medicus listed a maximum of three authors. Beginning with the January issue, all authors will be cited. The change also applies to the Abridged Index Medicus and the Monthly Bibliography of Medical Reviews, and may be applied to other selected NLM bibliographies in the future.

MEDICAL SUBJECT HEADINGS ("BLACK & WHITE" MeSH), 1977 (Manual IV-11)

Part II of the January 1977 issue of Index Medicus, titled Medical Subject Headings, is available as a separate item from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Price: $8.20 ($10.05 foreign). Stock number 017-052-71095-8. This publication should not be confused with the MeSH Annotated Bibliography, 1977 (searcher's MeSH) which is available from the NTIS. Note: The categorized lists in the back of the 1977 "Black & White MeSH" is the same as the 1977 MeSH Trees Structures available from NTIS (including geographies).

TYMSHARE NUMBERS (Manual II-9)

New numbers:
- Jackson, MI ...... 517/784-8522
- Louisville, KY ... 502/361-3881
- Boise, ID ........ 208/343-4851
- Tulsa, OK ........ 918/492-1687
- Ottawa, CN ....... 613/563-9841

CANCERLINE, ENTRY DATES (Manual XV)

CANCERLINE has been regenerated and the four-digit entry date (ED) field may again be searched without the use of the truncation symbol. When ranging on entry dates, the category qualifier (ED) is required.

CANCERLINE, PUBLICATION TYPE (Manual XV)

A new data element, publication type (PT), has been added to CANCERLINE. All records will now carry one of the following indicators:
- journal article
- meeting abstract
- book
- thesis
- government report
- technical report
- monograph
- meeting paper
- letter to editor

These indicators are directly searchable.

Issued monthly by the Office of the Associate Director for Library Operations. Grace H. McCarn, Editor; Yvonne B. Scott, Assistant Editor; Leonard J. Bahlman, Technical Notes Editor. Direct inquiries to MEDLARS Management Section, National Library of Medicine, 8600 Rockville Pike, Bethesda, Md. 20014 (TWX: 710-824-9616). The contents of this publication are not copyrighted and may be freely reproduced.
1977 ON-LINE TRAINING CLASS SCHEDULE

Following is the 1977 schedule reprinted from the December 76 Technical Bulletin but identifying the locations of the field training.

+Feb 28 - Mar 4 Atlanta, GA Advanced
*Mar 7 - 11 NLM Advanced
++Mar 14 - 18 Los Angeles, CA Advanced
Mar 28 - Apr 1 NLM Initial
Apr 4 - 8 NLM Initial
May 2 - 6 NLM Initial
May 9 - 13 Los Angeles, CA Initial
*Jun 13 - 17 NLM Advanced
Jul 25 - 29 Denver, CO Initial
*Sep 12 - 16 NLM Advanced
*Oct 17 - 21 NLM Advanced
*Oct 24 - 28 Los Angeles, CA Advanced
Nov 14 - 18 NLM Initial
*Dec 5 - 9 Kansas City, MO Advanced

+classes full
*an optional 6th day of instruction will be offered on other NLM databases, such as TOXLINE, CHEMLINE, etc.

LITERATURE SEARCH SUGGESTION FORM

Included in this issue is a form for suggesting literature searches.

MEDLARS AUDIOVISUALS

Another instructional unit in the series of audiovisuals on the MEDLARS system is now available. The slide/tape set, entitled ON-LINE MEDLARS SEARCHING, identifies and explains the steps involved in a search formulation from analysis of the patron's request through the performance of the on-line search. Techniques which enable the user to refine or expand the initial formulation are also described. The set includes a 25-minute audiocassette and 55 2x3 color slides. Purchase from:
National Audiovisual Center (GSA)
Order Section
Washington, D.C. 20409
Price: $12.50
Order number: S-3554-X

CATLINE CHANGES (Manual VIII)

Catline has been regenerated and now requires 1977 MeSH terms for searching. Also, textword searching is now possible in the title (TI) field in CATLINE. The title key is still searchable and may be used alone or in conjunction with textword searching.

MEDLINE TRAINEES AT NLM, JANUARY 31 - FEBRUARY 18, 1977

Nancy Calabretta - Thomas Jefferson University
Philadelphia, Pennsylvania

Nancy Catravas - NINCDS, NIH
Bethesda, Maryland

Carole Hamon - The Dow Chemical Company
Indianapolis, Indiana

Karen Higgins - Johns Hopkins University
Baltimore, Maryland

Barbara Huckins - Veterans Administration Hosp.
Waco, Texas

H. Ram Jayaraman - Phillips Petroleum Company
Bartlesville, Oklahoma

Myra Karstadt - U.S. General Accounting Office
Washington, D.C.

Anne Loner - Wheeling Hospital
Wheeling, West Virginia

Irene Mary Lovas - Veterans Administration Hosp.
New York, New York

Shirley Owen - Kansas City College of Osteopathic Medicine
Kansas City, Missouri

Michael Phillips - Institute for Medical Literature
South Africa

Kate Sanders - University of Missouri, Columbia
Columbia, Missouri

Mary Ellen Stieglitz - Enviro Control, Inc.
Rockville, Maryland
NOTES ON TERMINAL SELECTION

Robert Wallace, Tymshare

I. DEVICE

General qualities to look for:

1. Fewer moving parts generally means more reliable operation, longer life and lower maintenance charges.
2. Buy only from a major manufacturer if the product is less than 6 months old. Response to manufacturing and reliability problems will be better than with a small manufacturer.
3. Buy from a small manufacturer only if the product has been in production for some time greater than 6 months and only after checking several reliable references who are utilizing the product in a comparable manner to your proposed use.
4. Rely on your own research to determine functional requirements, not prospective vendors' studies.
5. If the terminals are to be moved frequently, preference should be given to desk top packaging. This will result in lower shipping costs and lower de-installation and re-installation charges.
6. Preference should be given to user installable units -- this generally indicates less complexity and more reliable operation than units requiring installation by the service organization.
7. Careful consideration should be given to the physical layout of the terminal -- can the unit be damaged by foreign objects falling into the unit? Can the unit be easily and economically maintained?
8. The supplies needed for operation must be readily available; are they? i.e., special ribbons: Diablo Dec special paper types: T.I. N.C.R. special paper sizes: G.E. Terinet

Are there second sources for supplies?
9. Shop around, even if it means delays. The better you understand your needs and what products are available, the better off you will be.

New Microprocessor Control Technologies

Microprocessor terminal control provides inherent advantages over the older TTL and discrete logic:
1. Provides the means for implementing inexpensive buffering of incoming data. This is useful for optimization of printing throughput (buffering data during the carriage return and line feed functions).

2. Improves reliability since generally fewer components are necessary.
3. Provides flexibility in terminal features and communications protocols through programmability. Some manufacturers will custom program the units for the user and in some cases, allow the user to provide his own programming.

II. MAINTENANCE

1. Maintenance selection is as important as the device itself.
2. Maintain all units under prime time remedial maintenance contracts. It is usually cheap insurance which provides you with predictable costs.
3. Make sure the maintenance organization covers your sites.
4. Generally third party maintenance, as opposed to manufacturer, is poor unless you have a large number of units per site; in either case, influence over the local maintenance manager is key.
5. Insure that costs for maintenance are in line with the industry and that protection against increases is provided. This may be obtained by a longer term commitment on your part. If you are buying a large quantity, you may be able to get a percentage limit on increases annually.
6. Write-in that a unit under Preventive Maintenance Contract should never require an overhaul or extra charge maintenance items.

III. CONTRACTING

1. You are buying the company you do business with as much as the product.
2. Beware of the third party terminal distributor's invention of the 12 X 36 lease. (If you don't cancel at the twelfth month, you are obligated to a full 36 month lease.)
3. If you rent or lease, get rental purchase credits and consider that the unit may have a much longer useful life than originally projected.
4. Beware of over-the-phone or by-mail ordering -- you need a local person to reconcile problems. The maintenance staff will not do for this function.
5. Anticipate all future situations and clarify their disposition in writing before you sign. This is when you have maximum leverage.

IV. USEFUL LIFE

Don't expect a 5-year useful life on printer terminals. I use 4 years and I am not disappointed.

*reprinted from THUGS NEWSLETTER
PERIODONTAL DISEASE: A HEDGE
Maria Farkas, Ph.D., Index Section, NLM

It has been found in the past few decades that the major cause of premature tooth loss is periodontal disease and not caries. More healthy teeth are lost by their falling out of their supporting tissue than are being extracted for advanced caries.

The hedge below gathers together the basic MeSH headings useful in a search on periodontal disease.

Anatomy

GINGIVAL EXUDATE
MANDIBULAR NERVE
MAXILLARY NERVE
MOUTH MUCOSA
PERIODONTIUM
ALVEOLAR PROCESS
DENTAL CEMENTUM
EPITHELIAL ATTACHMENT
GINGIVA
PERIAPICAL TISSUE
PERIODONTAL LIGAMENT

Diseases

DRY SOCKET
HEMORRHAGE, ORAL
GINGIVAL HEMORRHAGE
MONILIASIS, ORAL
PERIODONTAL DISEASES
GINGIVAL DISEASES
GINGIVAL HYPERPLASIA
GINGIVAL HYPERTROPHY
GINGIVITIS, NECROTIZING ULCERATIVE
GRANULOMA, GIANT CELL
PERICORONITIS
PERIODONTAL CYST
RadicULAR CYST
PERIODONTITIS
ABSCESS, PERIODONTAL
GINGIVAL POCKET
PERICEMENTITIS
PERIODONTITIS CLASIA
TOOTH EXFOLIATION
TOOTH MIGRATION
MESIAL MOVEMENT OF TEETH
TOOTH MOBILITY
STOMATITIS, APHTHOUS
TUBERCULOSIS, ORAL

Neoplasms

GINGIVAL NEOPLASMS
NEOPLASMS, DENTAL TISSUE
AMELOBLASTOMA
CEMENTOMA
ODONTOGENIC TUMOR
ODONTOGENIC CYSTS
DENTIGEROUS CYST
RadicULAR CYST

Here is a list of syndromes and systemic diseases involving the periodontium:

AFIBRINOGENEMIA
FALLOT'S TETRALOGY
HAND-SCHUELLER-CHRISTIAN SYNDROME
HERPES SIMPLEX
HERPES ZOSTER
KWASHIORKOR
MELKERSSON-ROSENTHAL SYNDROME
PAPILLON-LEFEVRE DISEASE
PURPURA, THROMBOTIC THROMBOPENIC
(also called Moschkowitz syndrome)
SCURVY
STEVENS-JOHNSON SYNDROME
TAKAYASU SYNDROME
VITAMIN A DEFICIENCY
VON WILLEBRAND'S DISEASE

Here is a list of miscellaneous terms applicable in periodontal articles:

DENTAL HYGIENISTS (M1, N2)
PERIODONTICS (E6)
DENTAL PROPHYLAXIS
SCALING, DENTAL
GINGIVECTOMY
GINGIVOPLASTY
PERIODONTAL DRESSINGS
PERIODONTAL INDEX
PERIODONTAL PROSTHESIS
SPLINTS, PERIODONTAL
SUBGINGIVAL CURETTAGE
EYE AND VISION: A Hedge

Dora R. Timke, Index Section, NLM

The arrangement of eye and vision terms from the 1977 Medical Subject Headings (MeSH) do not follow exclusively tree by tree, especially with regard to terms pertinent to the anatomy of the eye. This arrangement is, instead, by natural grouping. The other aspects are listed in the conventional tree-by-tree presentation.

EYE ANATOMY

The reproduction of Category A9 (Anatomy: Sense Organs) showing the eye portion is interspersed with pertinent anatomical relationships from other trees as indicated in parentheses.

EYE
- ANTERIOR CHAMBER
- AQUEOUS HUMOR
- CONJUNCTIVA
- CORNEA
- DESCENTEM'S MEMBRANE
- EYE PROTEINS (D12)
- CRYSTALLINS
- RHODOPSIN

- EYELIDS
- EYELASHES
- MEIBOMIAN GLANDS
- LACRIMAL APPARATUS
- HARDERIAN GLAND
- NASOLACRIMAL DUCT
- TEARS (A12)
- LENS, CRYSTALLINE
- CRYSTALLINS (D12)
- OCULOMOTOR MUSCLES
- OPHTHALMIC ARTERY (A7)
- PIGMENT EPITHELIUM OF EYE

RETINA
- FUNDUS OCULI
- MACULA LUTEA
- FOVEA CENTRALIS
- OPTIC DISK
- PHOTORECEPTORS (A8)
- RODS AND CONES
- RETINAL PIGMENTS (D11)
- RHODOPSIN

SCLERA
- TRABECULAR MESHWORK
- UVEA
- CHOROID
- CILIARY BODY
- IRIS
- EYE COLOR (G4)
- PUPIL
- VITREOUS BODY

AB: Neurological anatomy relating to the eye. The array below gathers terms scattered throughout AB:
- OCULOMOTOR NERVE
- OPHTHALMIC NERVE

EYE DISEASES

C11: This tree is devoted to EYE DISEASES. Please refer to it. In C11 is EYE MANIFESTATIONS with no indentions. EYE MANIFESTATIONS, however, taken from C23 is explodable and yields:

EYE MANIFESTATIONS
- ADIE'S SYNDROME
- AMBLYOPIA
- BLEPHAROPTOSIS
- DIPLOPIA
- HORNER'S SYNDROME
- NYSTAGMUS
- PAPILLEDEMA
- SCOTOMA

C16: Neonatal diseases and abnormalities:
- ANOPHTHALMOS
- COLOBOMA
- HYDROPHTHALMOS
- MICROPHTHALMOS
- OPHTHALMIA NEONATORUM
- RETROLENTAL FIBROPLASIA

C21: Eye injuries:
- EYE INJURIES
- EYE BURNS
- EYE FOREIGN BODIES

D16: Drugs acting on the eye:
- CYCLOPLEGICS
- CYCLOPENTOLATE
- MIOTICS
- MYDRIATICS
- CYCLOPENTOLATE

D26: Drugs acting on the eye:
- TEAR GASES
- CHLOROACETOPHENONE
- OPHTHALMIC SOLUTIONS
OPHTHALMIC PROCEDURES

E1: Diagnostic procedures
  DIAGNOSIS, EYE (NON MESH)
  ELECTRORETINOGRAPHY
  EYE MOVEMENTS
  ELECTROOCULOGRAPHY
  ELECTRONYSTAGMOGRAPHY
  FLICKER FUSION
  FUNDS FLUORESCENCE PHOTOGRAPHY
  GONIOSCOPY
  OPHTHALMODYNAMOMETRY
  OPHTHALMOSCOPY
  TONOMETRY
  VISION TESTS
  COLOR PERCEPTION TESTS
  PERIMETRY
  REFRACTION, OCULAR
  REFLEX, PUPILLARY

E2: Therapeutic procedures:
  LIGHT COAGULATION
  LASER COAGULATION
  ORTHOPTICS

E4: Surgical procedures:
  SURGERY, EYE (NON MESH)
  CATARACT EXTRACTION
  ENZYMATIC ZONULOLYSIS
  EYE, ARTIFICIAL
  LASER COAGULATION
  SCLERAL BUCKLING

E7: Equipment & devices:
  EYE, ARTIFICIAL
  LENSES
  CONTACT LENSES
  CONTACT LENSES, HYDROPHILIC
  EYEGLASSES
  EYE PROTECTIVE DEVICES

F2: Visual perception and the psychophysiology of vision:
  VISUAL PERCEPTION
  AFTERIMAGE
  COLOR PERCEPTION
  FIELD DEPENDENCE-INDEPENDENCE
  FIGURAL AFTEREFFECT
  FLICKER FUSION
  PERCEPTUAL CLOSURE
  GESTALT LAW OF CLOSURE
  PERCEPTUAL MASKING
  SPACE PERCEPTION
  DEPTH PERCEPTION
  DISTANCE PERCEPTION

FORM PERCEPTION
  CONTOUR PERCEPTION
  PATTERN RECOGNITION, VISUAL
  SIZE PERCEPTION

EIDETIC IMAGERY
  PHOTOGRAPHIC MEMORY
  OPTICAL ILLUSIONS
  SUBLIMINAL STIMULATION
  SUBLIMINAL PERCEPTION

G1: The physiology of vision:
  OCULAR PHYSIOLOGY (NON MESH)
  ACCOMMODATION, OCULAR
  ADAPTATION, OCULAR
  DARK ADAPTATION
  EYE COLOR
  EYE MOVEMENTS
  SACCADIES
  FIXATION, OCULAR
  INTRAOCULAR PRESSURE
  VISION
  PHOSPHENES
  VISION, ENTOPTIC
  VISUAL ACUITY
  VISUAL FIELDS
  VISUAL PERCEPTION
  AFTERIMAGE
  COLOR PERCEPTION
  DEPTH PERCEPTION
  DISTANCE PERCEPTION
  FIGURAL AFTEREFFECT
  FLICKER FUSION
  FORM PERCEPTION

REFLEX, OCULOCARDIAC
SLEEP, REM (note EYE MOVEMENTS in the branch above)

Here are some miscellaneous terms in MeSH of more or less direct kinship with the eye and eye terms.

Environmental:
  LIGHTING (G3)
  SUNLIGHT (G3)
  INFRARED RAYS
  ULTRAVIOLET RAYS

Professional:
  OPHTHALMOLOGY (G2)
  OPHTHALMIC ASSISTANTS (N2)
  OPTOMETRY (G2)

Other:
  AID TO THE BLIND (N3)
  EYE BANKS (N2)
  CONDITIONING, EYELID (F2)
  CRYING (F1)
  OPTICS (H1)
The following substantive serial titles were received or ordered by the Serial Records Section during the month of January. An asterisk (*) next to the title indicates that an issue has actually been received in the Library. PLEASE NOTE: NLM CANNOT FILL LOANS FOR TITLES WITHOUT THE ASTERISK (*). THEY HAVE NOT YET BEEN RECEIVED BY THE LIBRARY. The list is offered as an early announcement. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Betsy Humphreys, 301/496-1276, Technical Services Division, NLM.

ACOUSTICAL IMAGING AND HOLOGRAPHY  
1, 1977- 
Crane, Russak and Company  
New York, New York

ACTA GENETICA SINICA  
1, 1974-- 
Plenum  
New York, New York

ACTA REUMATOLOGICA Y BALNEOTERAPICA  
1, 1975?-- 
Instituto de Reumatologia Dela Cruz Roja Espanola  
Madrid, Spain

AKTUELLE RHEUMATOLOGIE  
1, 1976- 
Georg Thieme Verlag  
Stuttgart, West Germany

ADMINISTRATION IN SOCIAL WORK  
1, 1977-- 
Haworth Press  
New York, New York

ADVANCES IN CANCER SURGERY  
1, 1976-- 
Stratton IMBC  
New York, New York

ADVANCES IN MODERN NUTRITION  
1, 1976-- 
John Wiley and Sons  
New York, New York

ADVANCES IN MODERN TOXICOLOGY  
1, 1976-- 
Hemisphere Publication Corporation  
Washington, D.C.

ADVANCES IN NEPHROLOGY  
1977-- 
Yearbook Medical Publishers  
Chicago, Illinois

AKTUELLE ERNAHURUNGSMEDIZIN  
1, 1976-- 
Georg Thieme Verlag  
Stuttgart, West Germany

AKTUELLE RHEUMATOLOGIE  
1, 1976-- 
Georg Thieme Verlag  
Stuttgart, West Germany

ALCOHOLISM: CLINICAL AND EXPERIMENTAL RESEARCH  
1, 1977-- 
Grune and Stratton  
New York, New York

*ANESTESIOLOGIA  
1, 1974?-- 
Asociacion de Medicos Ex-residentes y Residentes de Anestesiology Hospital General SSA  
Mexico City, Mexico

APPLIED BIOCHEMISTRY AND BIOENGINEERING  
1, 1976-- 
Academic Press  
New York, New York

*ARQUIVOS DO INSTITUTO NACIONAL DE SAUDE  
1, 1972?-- 
Arquivos do Instituto Nacional de Saude  
Lisboa, Portugal

BEHAVIOR MODIFICATION  
1, 1977-- 
Western Psychiatric Institute and Clinic  
Pittsburgh, Pennsylvania

BEHAVIOURAL PROCESSES  
1, 1976-- 
Elsevier  
Amsterdam, Netherlands

BIOLOGY OF BEHAVIOR. BIOLOGIE DU COMPORTEMENT  
1976-- 
Masson et Cie  
Paris, France

CANADIAN JOURNAL OF APPLIED SPORT SCIENCES  
1, 1976-- 
Association of Applied Sport Sciences  
Vanier City, Canada

CARDIOVASCULAR MEDICINE  
1, 1976-- 
Group Medicine Publications Inc.  
New York, New York

CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY. SUPPLEMENT  
1, 1974-- 
Blackwell Scientific Publications  
Oxford, England

CLINICAL AND EXPERIMENTAL STUDIES IN GASTROENTEROLOGY AND HEMATOLOGY  
1, 1977-- 
Tohoku University. School of Medicine  
Sendai, Japan

CROSS-CURRENTS IN DENTISTRY: THE DYNAMICS OF HEALTH CARE DELIVERY  
1, 1975-- 
Currents Information Systems  
Victor, New York
CURRENT CONCEPTS IN GASTROENTEROLOGY  
1, 1976--  
Professional Communications Associates  
Chicago, Illinois

DIRECTORY OF ALCOHOLISM TREATMENT PROGRAMS  
1, 1976--  
Information Planning Associates  
Rockville, Maryland

DRUG AND CHEMICAL TOXICITY  
1, 1977--  
Marcel Dekker  
New York, New York

EARLY HUMAN DEVELOPMENT  
1, 1977--  
Elsevier  
Amsterdam, Netherlands

EAR NOSE AND THROAT JOURNAL  
55, 1976--  
Cont of Eye Ear Nose and Throat Monthly  
Insight Publishing Company  
New York, New York

*EKSPERIMENTALNAIA I KLINICHESKAIA ONKOLOGIIA  
1, 1972--  
Institute of Experiment and Clinical Medicine  
Tallinn, USSR

EXPERIMENTAL CELL BIOLOGY  
44, 1975--  
Cont of Pathologia et Microbiogia  
Karger  
Basel, Switzerland

FEMS MICROBIOLOGY LETTERS  
1, 1977--  
Elsevier  
Amsterdam, Netherlands

FUTURE TRENDS IN INFLAMMATION  
1, 1973--  
Birkhauser Verlag  
Stuttgart, West Germany

GENE  
1, 1977--  
Elsevier  
Amsterdam, Netherlands

GENETIC ENGINEERING  
1, 1977--  
Elsevier  
Amsterdam, Netherlands

HEMOGLOBIN  
1, 1976--  
Marcel Dekker  
New York, New York

HISTOPATHOLOGY  
1, 1977--  
Blackwell Scientific Publications  
Oxford, England

HUMAN BEHAVIOR AND ENVIRONMENT  
1, 1976--  
Plenum  
New York, New York

INDIAN JOURNAL OF PHYSICAL ANTHROPOLOGY AND HUMAN GENETICS  
1, 1976--  
Ethnographic and Folk Culture Society  
Lucknow, India

INORGANIC PERSPECTIVES IN BIOLOGY AND MEDICINE  
1, 1977--  
Elsevier  
Amsterdam, Netherlands

INTERNATIONAL JOURNAL OF OBESITY  
1, 1976--  
Newman  
London, England

JOURNAL OF ANALYTICAL TOXICOLOGY  
1, 1977--  
Journal of Analytical Toxicology  
Niles, Illinois

JOURNAL OF CHEMICAL RESEARCH: PART M  
1, 1977--  
Contains full texts of papers synopsized in Part S.  
Chemical Society  
London, England

JOURNAL OF CHEMICAL RESEARCH: PART S  
1, 1977--  
Chemical Society  
London, England

JOURNAL OF CHROMATOGRAPHY - BIOMEDICAL APPLICATIONS  
1, 1977--  
Elsevier  
Amsterdam, Netherlands

JOURNAL OF CLINICAL ENGINEERING  
1, 1976--  
Quest Publishing Company  
City of Industry, California

JOURNAL OF CLINICAL PHARMACY  
1, 1976--  
Blackwell Scientific Publications  
Oxford, England

JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY  
1, 1977--  
Raven Press  
New York, New York

JOURNAL OF FOOD PROCESSING AND PRESERVATION  
1, 1977--  
Food and Nutrition Press  
Westport, Connecticut

JOURNAL OF MATERNAL AND CHILD HEALTH  
1, 1976--  
Barker Publications  
London, England
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<td>Journal of Occupational Accidents</td>
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<td>Masson et Cie, Paris, France</td>
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<td>Journal of Pedodontics</td>
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<td>Medical Microbiology</td>
<td>1977</td>
<td>Marcel Dekker, New York</td>
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<td>Membrane Biochemistry</td>
<td>1977</td>
<td>Crane Russak and Company, New York</td>
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<td>Gruppo Editoriale Cadmos, Milan, Italy</td>
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<td>Neurology Update</td>
<td>1977</td>
<td>Medisette, Dallas, Texas</td>
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<td>Neuroscience Abstracts</td>
<td>1976</td>
<td>Supersedes Program and Abstracts, Annual Meeting Society for Neuroscience, Bethesda, Maryland</td>
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<td>Nursing in Canada/Soins Infirmiers au Canada</td>
<td>1975</td>
<td>Canada, Statistics Canada, Ottawa, Canada</td>
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<td>Nutrition and the Brain</td>
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<td>Raven Press, New York</td>
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<td>Occasional Papers in Medical Anthropology</td>
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<td>Karger, Basel, Switzerland</td>
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<td>Progress in Orthopaedic Surgery</td>
<td>1977</td>
<td>Springer Verlag, Berlin, Germany</td>
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<td>Seminars in Perinatology</td>
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<td>Side Effects of Drugs Annual</td>
<td>1977</td>
<td>Updates Meylers Side Effects of Drugs Between Editions, Excerpta Medical Foundation, Amsterdam, Netherlands</td>
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<td>Swedish Dental Journal</td>
<td>1977</td>
<td>Formed by the Merger of Svensk Tandlaekarel-Tidskrift and Odontologisk Revy, Swedish Dental Federation, Stockholm, Sweden</td>
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<td>Thoracic and Cardiovascular Radiology</td>
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<td>Update in Periodontics</td>
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AVLINE UPDATE

Virginia White, Technical Services Division, NLM

AVLINE PUBLICATION

The 1977 quarterly issues of Current Catalog, the first one of which will be available from GPO around the first of May, will contain separate sections of items cataloged for the AVLINE data base during the quarter. The AVLINE sections will consist of three parts:

Name Section - full entry including abstract, review data, and procurement information,

Subject Section - basic bibliographic citations and procurement information,

Procurement Section - full addresses and telephone numbers of distributors.

Unlike other sections of Current Catalog, the AVLINE sections will not appear as part of the annual publication, but will be cumulated separately. Plans for the annual AVLINE publication will be announced in the future.

AVLINE GROWTH

During the month of January, 1977, 295 citations were added to AVLINE. Topics covered by these audiovisuals include internal medicine (63 items), general practice (62 items), pediatrics (49 items), surgery (45 items), obstetrics and gynecology (37 items), and dentistry (16 items). 241 items were rated suitable for medical personnel; 136 for nursing; 43 for dental; and 117 for allied health. 105 of the items are productions of the Network for Continuing Medical Education.

As of February 1, AVLINE contained 2629 citations.

SHELFLISTING AV'S AT NLM

In the past several months, NLM has devised a system for the shelflisting of audiovisuals. One of the major elements of this shelflisting process is a 2-letter code which appears just after the call number in the AVLINE record. The codes, which were formulated here from a variety of sources, describe in brief the actual physical format of the audiovisual item. A list of the media codes currently in use follows:

- AC: Audiocassette
- AT: Audiotape
- CH: Chart
- CA: Computer-aided-instruction
- DC: Disc
- DI: Diorama
- FC: Filmstrip/cassette
- FD: Filmstrip/disc
- FL: Filmslip
- FS: Filmstrip
- FT: Filmstrip/tape
- GA: Game
- HA: Flashcards
- KT: Kit
- MF: Microfiche
- MI: Microfilm
- MO: Models
- MP8: Motion Picture (8 mm.)
- MPPS8: Motion Picture (super 8 mm.)
- MP16: Motion Picture (16 mm.)
- PI: Picture
- PT: Programmed Text
- RA: Realia
- SC: Slide/cassette
- SL: Slides
- SM: Microscope slides
- SS: Stereocope slides
- ST: Slide/tape
- TR: Transparency
- VC: Videocassette
- VS: Videocassette/slide
- VT1/4: Videotape (1/4 in.)
- VT1/2: Videotape (1/2 in.)
- VT3/4: Videotape (3/4 in.)
- VT1: Videotape (1 in.)
- VT2: Videotape (2 in.)

These codes reflect the physical item which NLM owns and will eventually shelve. This is particularly important in terms of our collection since often NLM will catalog a motion picture, but will have authorization to duplicate the item into videocassette format. In these cases, the medium designator in the title continuation field (TC) represents the media of the cataloged item available for loan or sale, and the media code in the call number field (CA) represents the media type which NLM holds in its collection. Transparencies have also been transformed to slide format for easier handling, and the medium designator "transparency" appears in the TC field for these items, while the media code in the CA field is SL for slide.

These media codes were designed to serve NLM shelflisting purposes and may or may not be useful to the field as a whole.
list of monographs indexed
MARCH 77

A
Noninvasive methods in cardiovascular human pharmacology.
1. Cardiovascular Diseases - drug therapy - congresses.
3. Heart Function Tests - methods - congresses.
ISBN 3-7945-0476-X
04NLM: W3 SY105S v.t 1974
OXNLM: [QV 77 A84« 1974]
04NLM: Wl CU12M v.l 1974
OXNLM,01HMS: [WJ 300 1591975a]
IM Cit. No. 7700253

C
1. Attitude to Death - congresses.
2. Attitude to Health - congresses.
5. Cancer control and the behavioral sciences VI. Title: Symposium on cancer : the behavioral dimensions
ISBN 0-89004-104-0 LC: 75-43192
04NLM: ZQ 300 C2175 1975
IM Cit. No. 761322

Coronary angiography and angiography... - symposium of the European Society of Cardiology, Hanover, March 1975 : edited by P. R. Lichtenen ; with contributions from E. L. Alderman [...] II. Stuttgart-Thieme, 1974, 383 p. ; ill. ; 3.
1. Angina Pectoris - drug therapy - congresses.
2. Calcium antagonists & inhibitors - congresses.
3. Coronary Disease - radiography - congresses.
5. Alderman, E. L., 1938- II. Lichtenen, Paul, ed. III. European Society of Cardiology. IV. Title: Symposium on coronary angiography and angiography
ISBN 3-13-534101-1
04NLM,01HMS: WG 300 C818 1975
IM Cit. No. 7700304

1. Dental Instruments - congresses.
2. Dentistry, Operative - congresses. I. Pearlman, Sholom, ed. II. American Association for the Advancement of Science. III. National Institute of Dental Research. IV. National Science Foundation. V. Title: Symposium on the cutting edge
ISBN 3-13-534101-1
04NLM: WU 300 C991 1975
IM Cit. No. 7700438

H
ISBN 0-306-33601-1
04NLM: W1 CUE2M v.1 1974
OXNLM,01HMS: [WJ 300 1591975a]
IM Cit. No. 7500624 (rev.)

1. Diseases - congresses.
3. Leukemia - congresses.
4. Leukemia, Chronic - congresses. I. Giovannetti, V., ed. II. D'Aamico, G., ed. III. Giovannetti, S., ed. IV. Title
ISBN 3-8055-2287-8
04NLM: W3 IN446 v.1975a
OXNLM,01HMS: [WJ 300 1591975a]
IM Cit. No. 7700285

1. Hepatitis - congresses.
2. Hepatitis - therapeutic use - congresses. I. Kakkar, V. V., ed. II. Thomas, Duncan P., ed. III. King's College Hospital Medical School. IV. Title
ISBN 0-12-349730-2
04NLM: QV 192 1604th 1975
IM Cit. No. 7700552

1. Enzyme Tests - congresses. II. Immunology - congresses. III. Immunologic Techniques - congresses. I. Feldmann, G., ed. II. Title
04NLM: W3 135 no.2 1975
OXNLM,01HMS: [QV 504 1611 1975]
IM Cit. No. 7610469

O
ISBN 3-639-10505-0
04NLM: W3 135 no.2 1975
OXNLM,01HMS: [QV 504 1611 1975]
IM Cit. No. 7610469

Price: 25.00
S


W

Literature Search Suggestion Form

1. Suggested Search Topic: ____________________________________________________
   ____________________________________________________
   ____________________________________________________
   ____________________________________________________

2. Reason(s) for suggesting this topic: ______________________________________
   ____________________________________________________
   ____________________________________________________
   ____________________________________________________
   ____________________________________________________

3. Limitations proposed (languages, age groups, time span, animal species, etc.):
   ____________________________________________________
   ____________________________________________________
   ____________________________________________________
   ____________________________________________________
   ____________________________________________________

4. Other pertinent information: ________________________________________________
   ____________________________________________________
   ____________________________________________________
   ____________________________________________________
   ____________________________________________________

Suggested by: ___________________________ Date ___________________________

Affiliation ___________________________
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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
National Institutes of Health
TECHNICAL NOTES

PLEASE QUERY THE ON-LINE NEWS FILES DAILY AT NLM FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the heading of each Technical Note will include a reference to the section/page of the NLM On-Line Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual II-9). Users should keep in mind that the item may pertain to other sections of the Manual.

JOURNAL CITATION DATA BASES

MEDLINE and SDILINE were updated with March citations on February 7th. The sizes, Index Medicus date ranges and entry dates are given below:

MEDLINE (Jan 75 - Mar 77) 615,286
(Entry dates 741205 to 770129)
SDILINE (March 77) 20,390
(Entry dates 770125 to 770129)

MEDLINE TITLES: List of Journals Indexed in Index Medicus, 1977

The separately published 1977 List of Journals Indexed in Index Medicus (LJII) may now be purchased from the Government Printing Office (GPO). This edition of the LJII represents the entire set of MEDLINE journal titles including the special list titles.

Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402

Order No. S/N 017-052-001779
Price $2.70
($3.40 foreign)

NAME AUTHORITY FILE CHANGES (Manual IX)

The NAME AUTHORITY FILE ("FILE NAME") can now be searched in the following additional ways: 1) All cross references (BX) are searchable by their print versions. Previously the non-print cross references (type O) were not searchable on-line. 2) All cross reference entry versions, except for those for type 5 ("see also"), are searchable. 3) The number for the type of "see" cross reference (such as O, 4, 6) is searchable directly by the number, followed by (BT). 4) The name and series print versions can be searched using text words by inputting a word from the name or series, such as SOCIOBIOLOGY, followed by (TW). 5) The date of entry (DA) for records can be ranged. 6) A new type of cross reference will be added in the near future for American Library Association (ALA) forms of cross references, such as U. S. National Library of Medicine see National Library of Medicine. The number 6 will appear at the end of the BX field for ALA forms of cross references. 7) An additional note field will be added to the Name Records for distribution notes for audiovisual procurement sources. It is not searchable. 8) The series treatment code is directly searchable by inputting the number, such as 1, and (SC).

AVLINE, TEXT WORD SEARCHING (Manual XVII-6)

The title field in AVLINE can now be searched as text words (TW).

SEARCHING NUMERIC CHARACTERS (Manual III-16.3)

When searching for the occurrence of the numbers 1 and/or 0 either as textwords or stringsearching, users should consider searching the letters L and 0 also.

1977 ON-LINE TRAINING CLASSES

The new on-line services training curriculum includes instruction on all of the Library's on-line data bases in both the initial and advanced five day courses. The optional sixth day of instruction previously added to the advanced class will, therefore, no longer be necessary or offered.

Two additional classes have been added to the 1977 schedule as follows:

- Aug 15 - 19 NLM Initial
- Dec 12 - 16 NLM Advanced

Issued monthly by the Office of the Associate Director for Library Operations. Grace H. McCarr, Editor; Yvonne B. Scott, Assistant Editor; Leonard J. Bahlman, Technical Notes Editor. Direct inquiries to MEDLARS Management Section, National Library of Medicine, 8600 Rockville Pike, Bethesda, Md. 20014 (TWX: 710-824-9616). The contents of this publication are not copyrighted and may be freely reproduced.
SPECIAL LIST HEALTH CARE

Clifford A. Bachrach, M.D., Medical Subject Headings, NLM

NLM is engaged in an effort to expand its service to users whose interests lie in the field of health care delivery, including health economics, planning, manpower, financing, organization, and management. As part of this effort, a new special list is being developed in MEDLINE, containing citations from some periodicals that specialize in these subjects and from others that contain occasional relevant articles of merit. This special list will begin with about sixty serial titles, and others will be added as additional candidates are screened. (See appendix A)

With the expansion of indexing coverage of these subjects, there is a need for introducing new terminology into MeSH to improve the precision and specificity of indexing and search. Some new entry terms and minor descriptors will be added in mid-1977. The introduction of new major descriptors will be deferred until 1978 MeSH to avoid introducing confusion in the way health care citations from Index Medicus journals are indexed in the 1977 Cumulated Index Medicus.

AUTOMATIC SDI PROGRAM AT THE NATIONAL LIBRARY OF MEDICINE

Carolyn Tilley, MEDLARS Management Section, NLM

Selective Dissemination of Information (SDI) or "current awareness" is a concept whereby physicians, researchers, teachers, health professionals, librarians, students, etc. make their particular subject interests known to information sources and the latest literature regarding their specified subject is periodically obtained and delivered to them. The Automatic SDI Service at NLM is a feature offered since August 1976 which allows MEDLINE and TOXLINE centers to store search formulations on the NLM computer. These stored searches can then be processed automatically by NLM against the current month's SDILINE or TOXLINE citations, with subsequent generation of off-line prints. To take advantage of this service, centers must store their searches at NLM using special naming conventions utilizing the STORESEARCH command (See Technical Bulletin No. 86, June 1976 or write to MEDLARS Management Section for instructions.) After storing searches, centers complete and return an Automatic SDI Request Form for each ID code under which the searches are stored. These searches are then processed automatically each month when the SDINLINE or TOXLINE files are updated with the current month's citations and off-line prints containing citations are mailed to each participating center for eventual distribution to their requesters.

During the third and fourth weeks of September 1976, the first batches of Automatic searches were run for MEDLINE and TOXLINE users who had requested NLM to automatically process their stored searches each month for them. An older, experimental procedure which had been used during the previous year for foreign centers and Regional Medical Libraries began to be phased out as the newer, more simplified procedures went into effect for use by all centers. In September 1976, over 1,600 searches were performed using both the old and new procedures for over 90 MEDLINE/TOXLINE centers. In February 1977, with more and more users requesting the Automatic SDI service, over 2,700 searches were processed for 119 centers.

Three different printing formats are offered for citations processed under these Automatic SDI procedures. In January 1977, a report was obtained on the preference of the printing formats, as follows:

SDILINE AUTOMATIC SDI's:

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<td>75%</td>
<td>AU,TI,SO</td>
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<td>Print Full</td>
<td>5%</td>
<td>AU,TI,LA,MH,SO,CI</td>
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<td>Print Detailed</td>
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TOXLINE AUTOMATIC SDI's:

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<td>SI,AU,TI,SO</td>
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<tr>
<td>Print Full</td>
<td>71%</td>
<td>SI,AU,TI,SO,AB</td>
</tr>
<tr>
<td>Print Detailed</td>
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<td>(Entire unit record)</td>
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Currently, NLM is considering adding reprint source to the "PRINT FULL option for SDILINE Automatic SDI's."
ENVIRONMENTAL CONTAMINATION: A HEDGE
Miriam Gershfeld, Index Section, NLM

This hedge gives MeSH headings in the field of the chemical and physical pollution of the environment. Most of the terms are located mainly in Categories D and G.

As is customary in presenting hedges, a complete tree will not be reproduced here: the user of this hedge will have to refer directly to MeSH Tree Structures for an entire tree. When portions of a tree are applicable for explosion, they are given below with the authentic MeSH tree indentions. Some indentions in trees are omitted, however, as inapplicable to an environmental contamination search (e.g., STAPHYLOCOCCAL FOOD POISONING is not shown since this hedge is restricted to chemical pollution). The form (explodable) is shown when a term contains indentions inapplicable here.

D5 - Environmental pollutants and pesticides: see MeSH Tree Structures.

D26 - Carcinogens

Note that D5 contains a term, CARCINOGENS, ENVIRONMENTAL, with no indentions. The CARCINOGENS in D26 should be examined in a pollutant search because many of them, though environmental carcinogens, do not appear in D5.

CARCINOGENS

AFLATOXINS
0-AMINOAZOTOLUENE
ANTHRACENES
9,10-DIMETHYL-1,2-BENZANTHRACENE
AZOXYMETHANE
BENZIDINES
3,3'-DICHLOROBENZIDINE
CHLOROMETHYL METHYL ETHER
CYCASIN
METHYLAZOOXYMETHANOL ACETATE
DICHLOROMETHYL ETHER
DIMETHYLAMINOAZOBENZENE
METHYLDIMETHYLAMINOAZOBENZENE
1,2 DIMETHYLDYRAZINE
ETHIONINE
ETHYLENETHIUREA
ETHYLNITROSOUREA
FANFT
FLUORENES
ACETYLMETHYLFLUORENE
ACETOXYACETYLAMINOFLUORENE
2,7-DIACETYLAMINOFLUORENE
HYDROXYACETYLAMINOFLUORENE
4-HYDROXYAMINOMETHYLIMINOFLUORENE-1-OXIDE
3-HYDROXYANTHRANILIC ACID
METHYLCOLANTHRENE
METHYLENE BIS(CHLOROANILINE)
METHYLNITROTRISOGUANIDINE
METHYLNITROSOUREA
1-NAPHTHYLAMINE
2-NAPHTHYLAMINE
4-NITROQUINOLINE-1-OXIDE

NITROSAMINES

BUTYLBISACETYLAMINOFLUORENE
BUTYLBISDIETHYLNITROSAMINE
DIETHYLAMINOFLUORENE
DIMETHYLNITROSAMINE
NITROSOMETHYLURETHANE
PATULIN
PENICILLIC ACID
PHORBOLS
PHORBOL ESTERS
TETRAGANOLS
PYRENE
BENZOPYRENE
PYRROLIZIDINE ALKALOIDS
SAFROLE
THIOACETAMIDE
VINY CHLORIDE

CAUSTICS
CHEMICAL WARFARE AGENTS
CHLOROPICRIN
MUSTARD GAS
PHOSGENE
DETERGENTS (explodable)
FLAVORING AGENTS (explodable)
FOOD ADDITIVES (explodable)
FOOD COLORING AGENTS (explodable)
FOOD PRESERVATIVES (explodable)
SOLVENTS
TEAR GASES
CHLOROACETOPHENONE

G2 - Here are the specialties in the health professions concerned with the results of environmental contamination and their prevention. The emphasis here is on the heading as a specialty. Where indicated, there are many specific breakdowns of the specialty, useful in a search. They should be perused in an environmental contamination or pollution search for pertinent concepts.

ENVIROMENTAL HEALTH
HEALTH PHYSICS
SANITARY ENGINEERING (explodable in G3)
SANITATION (explodable in G3)
INDUSTRIAL DENTISTRY
PREVENTIVE DENTISTRY
INDUSTRIAL NURSING
PREVENTIVE MEDICINE (explodable in G3)
INDUSTRIAL MEDICINE
TOXICOLOGY

G3 - The terms in G3 for the physical environment (LIGHT, HEAT, etc.) are not reproduced here, again in the interests of saving space. What follows are those headings important in searches on environmental pollutants.
As above, the groupings are in an arbitrary order but the indentions are authentic MeSH indentions.

ENVIRONMENTAL POLLUTION
  AIR POLLUTION
    AIR POLLUTION, RADIOACTIVE
    AUTOMOBILE EXHAUST
    DUST
    SMOG
    SMOKE

ENVIRONMENTAL EXPOSURE
  MAXIMUM PERMISSIBLE EXPOSURE LEVEL

FOOD CONTAMINATION
  FOOD CONTAMINATION, RADIOACTIVE

NOISE
  PESTICIDE RESIDUES

WASTE PRODUCTS (NON MESH)
  INDUSTRIAL WASTE
  RADIOACTIVE WASTE
  SEWAGE
    WASTE DISPOSAL, FLUID

WATER POLLUTION
  WATER POLLUTION, CHEMICAL
  WATER POLLUTION, RADIOACTIVE
  WATER POLLUTION, THERMAL

RADIOLOGIC HEALTH (NON MESH)
  AIR POLLUTION, RADIOACTIVE
  FOOD CONTAMINATION, RADIOACTIVE
  RADIATION DOSAGE
    DOSE-RESPONSE RELATIONSHIP, RADIATION

RADIOLOGIC HEALTH (NON MESH)
  RELATIVE BIOLOGICAL EFFECTIVENESS
  RADIATION EFFECTS
  RADIATION GENETICS
  RADIATION INJURIES
  RADIATION INJURIES, EXPERIMENTAL
  RADIATION MONITORING
  BODY BURDEN
  FILM BADGE
  THERMOLUMINESCENT DOSIMETRY
  RADIATION PROTECTION
    RADIOACTIVE FALLOUT
    RADIOACTIVE WASTE

WATER POLLUTION, RADIOACTIVE

Miscellaneous related terms:
  DECONTAMINATION (G3)
  ECOLOGY (G1)
  EUTROPHICATION (G4)
  ODORS (G3)
  REFUSE DISPOSAL (G3)
  GARBAGE

Diseases resulting from environmental contamination are located mainly in Trees C20 and C21.

C21 - OCCUPATIONAL DISEASES
  AGRICULTURAL WORKERS' DISEASES
    FARMER'S LUNG
    SILO FILLER'S DISEASE
    BIRD FANCIER'S LUNG
    INERT GAS NARCOSIS
    LABORATORY INFECTION
    LEAD POISONING
    OCCUPATIONAL DERMATITIS
    PNEUMOCONIOSIS
    ASBESTOSIS
    BAGASSOSIS
    BYSINNOSIS
    CAPLAN'S SYNDROME
    SILICOSIS
    ANTHRACOSILICOSIS
    SILICOTUBERCULOSIS

POISONING
  CADMIUM POISONING
  CARBON TETRACHLORIDE POISONING
  FLUORIDE POISONING
  FOOD POISONING (explodeable)
  GAS POISONING
    CARBON MONOXIDE POISONING
    ILLUMINATING GAS POISONING
    INERT GAS NARCOSIS
  LEAD POISONING
  MERCURY POISONING

RADIATION INJURIES
  LEUKEMIA, RADIATION-INDUCED
  NEOPLASMS, RADIATION-INDUCED
  OSTEOARACIONECROSIS
  RADIATION INJURIES, EXPERIMENTAL
  RADIODERMATITIS

ACOUSTIC TRAUMA
  ASPHYXIA
  BLAST INJURIES
  BURNS, CHEMICAL
  BURNS, INHALATION

E7 - In this tree are located equipment and devices for protection from and detection of contamination:
  PROTECTIVE DEVICES
    EAR PROTECTIVE DEVICES
    EYE PROTECTIVE DEVICES
    HEAD PROTECTIVE DEVICES
    MASKS
    MOUTH PROTECTORS
  RESPIRATORY PROTECTIVE DEVICES
  PROTECTIVE CLOTHING
  RADIATION DETECTION EQUIPMENT (NON MESH)
    FILM BADGE
    GEIGER-MUELLER COUNTER
    SCINTILLATION COUNTERS
    WHOLE BODY COUNTERS
HI - In this tree are the radiation terms useful in an environmental pollution search. Compare the MeSH indentions here under RADIATION MONITORING with those reproduced from MeSH under RADIATION MONITORING in G3 above.

MICROWAVES
RADIATION
RADIATION, IONIZING
ALPHA PARTICLES
BACKGROUND RADIATION
CATHODE RAYS
COSMIC RADIATION
GAMMA RAYS
X-RAYS

LEUKEMIA: A HEDGE
Anna Weiss, Index Section, NLM

The hedge below is grouped not by category but, instead, by related concepts.

1. The leukemias and related states:
   LEUKEMIA (exploded) (C4)
   PRELEUKEMIA (C4, C15)
   LEUKEMOID REACTION (C15)
   NEOPLASM METASTASIS (C4)
   LYMPHATIC METASTASIS (C4)

2. Hematological concepts significant in leukemia:
   Category A: BLOOD PLATELETS
   BONE MARROW CELLS
   HEMATOPOIETIC STEM CELLS
   ERYTHROCYTES
   ERYTHROBLASTS
   HEMOGLOBIN
   HEMATOPOIETIC SYSTEM
   LEUKOCYTES
   RETICULOCYTES
   Category E: BLOOD CELL COUNT
   ERYTHROCYTE COUNT
   LEUKOCYTE COUNT
   BONE MARROW EXAMINATION
   HEMATOCRIT
   HEMOGLOBINOMETRY
   OCCULT BLOOD
   BLOOD TRANSFUSION
   PLASMAPHERESIS
   Category G: BLOOD-BRAIN BARRIER (in brain leukemia)
   CHROMOSOME ABERRATIONS (the Philadelphia chromosome appears often in chronic myelocytic leukemia articles)
   HEMATOPOIESIS
   RADIOMETRY
   RADIATION DOSAGE
   DOSE-RESPONSE RELATIONSHIP, RADIATION
   RADIATION MONITORING
   BODY BURDEN
   FILM BADGE
   GEIGER-MUeller COUNTER
   THERMOLUMINESCENT DOSIMETRY
   SCINTILLATION COUNTERS
   WHOLE BODY COUNTERS

3. Common complications of the various types of leukemia (the arrangement here is largely alphabetical):
   ANEMIA, HEMOLYTIC, AUTOIMMUNE
   ASTHENIA
   HEART FAILURE, CONGESTIVE
   HEMORRHAGE
   CEREBRAL HEMORRHAGE
   EPISTAXIS
   HEMORRHAGE, GASTROINTESTINAL
   HEPATOMEGALY
   HYPOGAMMAGLOBULINEMIA
   INFECTION (particularly BACTERIAL INFECTIONS, HERPES ZOSTER AND CHICKENPOX)
   LIVER CIRRHOSIS
   MYOCARDIAL INFARCT
   NEUROLOGICAL MANIFESTATIONS and specific terms in C10
   PAIN
   PNEUMONIA
   SPLENOMEGALY
   THROMBOSIS
   The lowered immunity in leukemia gives rise to adverse reactions to vaccines, especially SMALLPOX BACCINE and to INSECT BITES AND STINGS.

4. Category D22: ANTI NEOPLASTIC AGENTS (exploded)

5. Category D24: ANTIGENS, NEOPLASM
   ANTIBODIES, NEOPLASM

6. In the therapeutic milieu, the following terms are useful:
   PATIENT ISOLATION
   PATIENT ISOLATORS
   TERMINAL CARE
ADVANCED ON-LINE SERVICES TRAINING CLASS AT ATLANTA, GEORGIA
February 28 - March 4, 1977

Deborah L. Bliss - University of Alabama in Birmingham
Birmingham, Alabama

Letitia Eubank - Center for Disease Control
Atlanta, Georgia

Margaret B. Horacek - University of South Florida
Tampa, Florida

Elaine Keefer - University of South Alabama
Mobile, Alabama

R. Thomas Lange, Jr. - University of South Carolina
Columbia, South Carolina

James C. Myers - Florida State University
Tallahassee, Florida

Mabel S. Norton - Veterans Administration Hospital
Atlanta, Georgia

Geraldine Palmer - University of Tennessee
Memphis, Tennessee

Nena Perry - Emory University
Atlanta, Georgia

William G. Pollard, III - University of Alabama in Huntsville
Huntsville, Alabama

Robert K. Poyer - Medical University of South Carolina
Charleston, South Carolina

Barbara Seely - Merck, Sharp and Dohme
West Point, Pennsylvania

Julia Speakes - University of Mississippi
Jackson, Mississippi

ADVANCED ON-LINE SERVICES TRAINING CLASS AT NLM
March 7 - 11, 1977

Sharon Butler - Vanderbilt University
Nashville, Tennessee

Barbara Epstein - University of Pittsburgh
Pittsburgh, Pennsylvania

Jacques Halpern - INSERM
Paris, France

Laura Huff - The Pennsylvania State University
Hershey, Pennsylvania

Ann Jefferson - Hartford Hospital
Hartford, Connecticut

Sheila Larsen - University of Nebraska Medical Center
Omaha, Nebraska

Carolyn Lipscomb - The University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

Elaine O'Connor - Earl K. Long Hospital
Baton Rouge, Louisiana

Catherine Orme - Cornell University
New York, New York

Stanley Ozog - The Chemists' Club
New York, New York

Ronald Rader - Gillette Medical Evaluation Laboratories
Rockville, Maryland

Robert Sekerak - The University of Vermont
Burlington, Vermont

Robin Strickler - Walter Reed Army Medical Center
Washington, DC

James Tchobanoff - The Pillsbury Company
Minneapolis, Minnesota

Valerie Tucci - Air Products & Chemicals, Inc.
Allentown, Pennsylvania

Nancy Utterback - Veterans Administration Center
Fargo, North Dakota
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Grune and Stratton
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ANTI-DIURETIC HORMONE
1, 1976--
Eden Press
St. Louis, Missouri

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1, 1975--
Autistic Children's Association of New South Wales
Chatswood, Australia

ENDOMETRIUM: A REVIEW OF THE WORLD LITERATURE
1976--
Scientia Press
Richland, Michigan

ENVIRONMENTAL MANAGEMENT
1, 1976--
Springer-Verlag
Berlin, Germany

HEALTH LABOR RELATIONS REPORTS
1, 1976--
Plus Publications
Washington, D.C.

HEALTH SCIENCES VIDEO DIRECTORY
1, 1977--
Shelter Books
New York, New York

HERZ KARDIOVASKULAERE ERKRANKUNGEN
1, 1976--
Urban and Schwarzenberg
Muenchen, West Germany

HISTORICAL STUDIES IN THE LIFE SCIENCES
1, 1977--
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Baltimore, Maryland

JOURNAL OF EGYPTIAN ASSOCIATION OF PHYSICAL MEDICINE AND REHABILITATION
1, 1973--
Egyptian Association of Physical Medicine and Rehabilitation
Cairo, Egypt

JOURNAL DES MALADIES VASCULAIRES
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Paris, France

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1, 1975--
Illinois Hospital Association
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REVUE DE PSYCHIATRIE DE L UNIVERSITE D OTTAWA
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Horwood
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IM


OxNLM: 0-444-41443-8 LC: 78-87719

04NLM: 01HEMS: WQ 300 S977 1978

IM


04NLM: W3 CI65G v.1 1974

01HEMS: QW 481 C641 v.1 1974

OxNLM: [QW 570 S982n 1974]

IM


04NLM: W3 C155E 1975h 1975

OxNLM: WE 705 C532 1975h

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A PARTIAL LIST OF TITLES INDEXED

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CORNELL UNIVERSITY. GRADUATE SCHOOL OF BUSINESS AND PUBLIC
ADMINISTRATION
INDEXES: VOLS. 1-12, 1956-68.
W1 AD347
ISSN 0001-8392

AHME JOURNAL
3, 1970— ARLINGTON
ASSOCIATION FOR HOSPITAL MEDICAL EDUCATION
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W1 A1155E
ISSN 0090-7782

AMERICAN ARCHIVES OF REHABILITATION THERAPY
1, 1953— PARAMUS NJ
AMERICAN ASSOCIATION FOR REHABILITATION THERAPY
W1 AM175
ISSN 0002-7324

AMERICAN BEHAVIORAL SCIENTIST
4, 1960— BEVERLY HILLS
SAGE PUBLICATIONS
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W1 AM281L
ISSN 0002-7642

AMERICAN JOURNAL OF ECONOMICS AND SOCIOLOGY
1, 1941— NEW YORK
AMERICAN JOURNAL OF ECONOMICS AND SOCIOLOGY
W1 AM45V
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1, 1976— ALEXANDRIA VA
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W1 AM452H
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1, 1937— LINCOLN
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W1 AM498C
ISSN 0002-9459

BIOMEDICAL COMMUNICATIONS
1, 1973— NEW YORK
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W1 BI85D
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BLUE CROSS ASSOCIATION RESEARCH SERIES
12, 1974— CHICAGO
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W1 BL89T
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ULTILITIN OF THE AMERICAN COLLEGE OF PHYSICIANS
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22, 1969--  WESTON CANADA
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W1 DR523P

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W1 DR524

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W1 HEW68

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W1 HE576BH

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NORTHWOOD INDUSTRIAL PUBLICATIONS
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W1 H0773

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ISSN 0090-4392

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W2 S S63R
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W1 W088C
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ISSN 0512-3135

ITEMS RETRIEVED 60
# The NLM Technical Bulletin

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**April 1977**

**No. 96**

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<td>11</td>
</tr>
<tr>
<td>List of Monographs Indexed - May 1977</td>
<td>13</td>
</tr>
<tr>
<td>Changes to the Index Terms Used in Cancerproj</td>
<td>Appendix A</td>
</tr>
</tbody>
</table>
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Editor: Grace H. McCarn
Assistant Editors: Yvonne B. Scott
Sharon L. Valley, Ph.D.
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MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20014
301/496-6193
TECHNICAL NOTES

PLEASE QUERY THE ON-LINE NEWS FILES DAILY AT NLM FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the heading of each Technical Note will include a reference to the section/page of the NLM On-Line Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual II-9). Users should keep in mind that the item may pertain to other sections of the Manual.

JOURNAL CITATION DATA BASES

MEDLINE and SDILINE were updated with April citations on March 8th. The sizes, Index Medicus date ranges and entry dates are given below:

- MEDLINE (Jan 75 - Apr 77) 637,230
  (Entry dates 741205 to 770226)
- SDILINE (April 77) 21,944
  (Entry dates 770216 to 770226)

CANCERPROJ, SUBJECT CAPTION TERMS (Manual XVIII)

Appendix A provides a list of changes which have been made to the Subject Captions (SC) terms in CANCERPROJ.

TYMSHARE NUMBERS (Manual II-9)

New Numbers: (30 CPS, Correspondence Code)
- Dayton, OH 513/223-3847
- Madison, WI 608/221-4211
- Rockford, IL 815/398-6090
- Orlando, FL 305/859-4540

Changes:

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palo Alto, CA</td>
<td>415/494-3900</td>
</tr>
<tr>
<td>Edmonton, CANADA</td>
<td>403/452-7014</td>
</tr>
<tr>
<td>Kansas City, MO</td>
<td>816/421-7444</td>
</tr>
</tbody>
</table>

TELENET NUMBERS (Manual II)

New Numbers:
- Sacramento, CA 916/486-1881
- Raleigh-Durham, NC 919/549-8291

CADMIUM POISONING

In On-Line Technical Notes (December 1976), it was stated that for the BACKFILES (citations input for 1975), one must continue to search EPIDEMIC
HEMORRHAGIC FEVER, a descriptor deleted in 1977 MeSH, and CADMIUM/poisoning, a descriptor/qualifier combination superceded by CADMIUM POISONING, a new descriptor for 1977. The same instructions also apply to the MEDLINE file for citations input during 1975 and 1976.

STRINGSEARCH - USE OF TRUNCATION SYMBOL WITH PRE-COORDINATED MAIN HEADINGS (Manual III-18 e.)

The On-Line Services Reference Manual states that certain punctuation marks such as commas, periods, apostrophes, and quotation marks are treated as spaces by the programs in the STRINGSEARCH strategy. This is true for all punctuation marks except commas. Terms which include commas should be stringsearched with a single character truncation symbol (#) in place of each comma.

EXAMPLE:

SS X/C?
USER:

TS (MH) :INFANT# NEWBORN:
PROG:
SS (X) PSTG (XXX)

STRINGSEARCH - CORRECTIONS FOR REFERENCE MANUAL (Manual III-19)

The following example for TS DOPA should be substituted on Page III-19 of the On-Line Services Reference Manual:

TS DOPA If colons are omitted entirely, a right hand truncation is assumed. This request would retrieve only titles beginning with the word Dopa.

DNA, RECOMBINANT

The term, DNA, RECOMBINANT was added to the 1977 MeSH on March 21, 1977. Because of the importance of this concept it was added immediately instead of waiting for the 1978 MeSH. Citations dealing with recombinant DNA were previously indexed either to DNA only or to the combination of terms DNA and RECOMBINATION, GENETIC.

NLON- LINE USERS MEETING

There will be an NLM On-Line Users Meeting held as part of the annual MLA (Medical Library Association) Convention in Seattle, Washington (June 11-16, 1977). This NLM On-Line Users Meeting will be held on Tuesday, June 14 starting at 3:00 p.m. and ending at 4:30 p.m. in the Olympic Bowl of the Olympic Hotel (convention headquarters). All interested persons are invited to attend.

EPILEPSYLINE

EPILEPSYLINE connect hours will be free from May 1, 1977 through September 30, 1977. Off-line pages, OFFSEARCHES, etc., will be charged as usual.
Effective April 7, 1977, the On-Line hours of service at NLM and SUNY are as follows: (all times are Eastern Standard)

<table>
<thead>
<tr>
<th>Day</th>
<th>NLM</th>
<th>SUNY</th>
</tr>
</thead>
<tbody>
<tr>
<td>MONDAY</td>
<td>3 A.M. - 6 P.M.</td>
<td>8 A.M. - 8 P.M.</td>
</tr>
<tr>
<td>TUESDAY</td>
<td>12 NOON - 8 P.M.</td>
<td>3 A.M. - 6 P.M.</td>
</tr>
<tr>
<td>WEDNESDAY</td>
<td>3 A.M. - 6 P.M.</td>
<td>8 A.M. - 8 P.M.</td>
</tr>
<tr>
<td>THURSDAY</td>
<td>3 A.M. - 6 P.M.</td>
<td>8 A.M. - 8 P.M.</td>
</tr>
<tr>
<td>FRIDAY</td>
<td>3 A.M. - 8 P.M.</td>
<td>8 A.M. - 6 P.M.</td>
</tr>
</tbody>
</table>

Note that NLM will be down at 6 p.m. on Thursday rather than 8 p.m. as previously scheduled. SUNY will stay up until 8 p.m. on Thursday and will be down on Friday at 6 p.m.

OFF-LINE PRINTS, NLM (Manual III-33)

A sequential control number has been added to off-line prints and searches run at NLM. This number appears opposite the page number on the prints and is used for production control at NLM. The control number is meaningless to analysts and users.

TOXLINE UPDATE - APRIL 30, 1977

The TOXLINE file was updated April 30, 1977 with 8,050 records as follows:

<table>
<thead>
<tr>
<th>Subfile</th>
<th>Coverage</th>
<th>Records Added</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBAC</td>
<td>Vol. 25, Iss. 7-8, Apr 77</td>
<td>3,251</td>
</tr>
<tr>
<td>HEEP</td>
<td>May 1977</td>
<td>1,069</td>
</tr>
<tr>
<td>IPA</td>
<td>Jan-Feb 1977</td>
<td>1,257</td>
</tr>
<tr>
<td>PESTAB</td>
<td>Nov 76-Feb 77</td>
<td>925</td>
</tr>
<tr>
<td>TOXBIB</td>
<td>May 1977</td>
<td>1,554</td>
</tr>
</tbody>
</table>

TOTALS 8,056

The update tag is 0477 (ST). This brings the total number of documents in TOXLINE to 424,669.

HOLIDAY SCHEDULE, 1977

Following is the holiday schedule for the NLM and SUNY systems for 1977:

<table>
<thead>
<tr>
<th>Holiday</th>
<th>NLM</th>
<th>SUNY</th>
</tr>
</thead>
<tbody>
<tr>
<td>George Washington's Birthday (Mon, Feb 21)</td>
<td>UP*</td>
<td>DOWN</td>
</tr>
<tr>
<td>Memorial Day (Mon, May 30)</td>
<td>DOWN</td>
<td>DOWN</td>
</tr>
<tr>
<td>Independence Day (Mon, Jul 4)</td>
<td>DOWN</td>
<td>DOWN</td>
</tr>
<tr>
<td>Labor Day (Mon, Sep 5)</td>
<td>DOWN</td>
<td>DOWN</td>
</tr>
<tr>
<td>Columbus Day (Mon, Oct 10)</td>
<td>UP*</td>
<td>UP*</td>
</tr>
<tr>
<td>Veterans Day (Mon, Oct 24)</td>
<td>UP*</td>
<td>UP*</td>
</tr>
<tr>
<td>Thanksgiving Day (Thu, Nov 24)</td>
<td>DOWN</td>
<td>DOWN</td>
</tr>
<tr>
<td>Christmas (Mon, Dec 26)</td>
<td>DOWN</td>
<td>DOWN</td>
</tr>
<tr>
<td>New Years (Mon, Jan 2, 1978)</td>
<td>DOWN</td>
<td>DOWN</td>
</tr>
</tbody>
</table>

*Non-Prime time rates in effect all day.
AVLINE UPDATE
Virginia White, Technical Services Division, NLM

AVLINE GROWTH

During February and March 1977, 157 citations were added to AVLINE bringing to 452 the number added in the first quarter of 1977. As of April 1, AVLINE contained 2765 citations.

LOAN OF AVLINE ITEMS

The National Library of Medicine does not lend any audiovisual items on Interlibrary Loan. If, at the time of cataloging, we are aware of a loan source for an AVLINE item, we will include this information in the Procurement Source (PC) and Price (PR) fields, along with any sale source.

EXAMPLE:
PC - TRAINEX CORPORATION
PR - LOAN: 15.00
PR - SALE: WRITE FOR COMPLETE INFORMATION

The address for the loan source will appear in the NAME AUTHORITY FILE (see page 9 of the January 1977 Library Network/MEDLARS Technical Bulletin for information on searching the NAME AUTHORITY FILE).

REVIEW DATA FIELD

Information supplied by reviewers and listed in the review data portion of the General Notes (GN) field is transcribed into the Review Data (RD) field and is directly searchable. Adding the qualifier (RD) to the searchable element will eliminate possible multimeaning messages and facilitate searching. Searchable elements include the following:

<table>
<thead>
<tr>
<th>Ratings</th>
<th>Review body</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended</td>
<td>AAMC (Association of American</td>
</tr>
<tr>
<td>Highly recommended</td>
<td>Medical Colleges)</td>
</tr>
<tr>
<td></td>
<td>AADS (American Association of</td>
</tr>
<tr>
<td></td>
<td>Dental Schools)</td>
</tr>
<tr>
<td>Audience levels</td>
<td>NLM (National Library of Medicine)</td>
</tr>
<tr>
<td>Undergraduate</td>
<td>ASCP (American Society of Clinical</td>
</tr>
<tr>
<td>Graduate</td>
<td>Pathologists)</td>
</tr>
<tr>
<td>Continuing education</td>
<td>NMAC (National Medical Audio-visual Center)</td>
</tr>
<tr>
<td>Specialty</td>
<td>APS (American Physiological Society)</td>
</tr>
<tr>
<td>General</td>
<td></td>
</tr>
<tr>
<td>Medical</td>
<td></td>
</tr>
<tr>
<td>Dental</td>
<td></td>
</tr>
<tr>
<td>Nursing</td>
<td></td>
</tr>
<tr>
<td>Allied health</td>
<td></td>
</tr>
<tr>
<td>PhD</td>
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<tr>
<td>Learning method</td>
<td>Specialties</td>
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<tr>
<td>Lecture support</td>
<td>Basic Sciences</td>
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<tr>
<td>Self instructional</td>
<td></td>
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<tr>
<td>Pre-test</td>
<td>ANATOMY</td>
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<tr>
<td>Post-test</td>
<td>ANATOMY, REGIONAL</td>
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<td>ANATOMY, VETERINARY</td>
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<tr>
<td></td>
<td>CYTOLOGY</td>
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<td>EMBRYOLOGY</td>
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HISTOLOGY
NEUROANATOMY
BEHAVIORAL SCIENCES
ANTHROPOLOGY
PSYCHOLOGY
SOCIOLOGY
BIOCHEMISTRY
BIOLOGY
BOTANY
ECOLOGY
GENETICS
MICROBIOLOGY
BACTERIOLOGY
MYCOLOGY
VIROLOGY
PARASITOLOGY
ZOOLOGY
BIOPHYSICS
PHARMACOLOGY
PHYSIOLOGY
NEUROPHYSIOLOGY

Medicine

AVIATION MEDICINE
COMMUNITY MEDICINE
EMERGENCY MEDICINE
EPIDEMIOLOGY
GERIATRICS
MILITARY MEDICINE
NUCLEAR MEDICINE
SOCIAL MEDICINE
SPECIALTIES, MEDICAL
ANESTHESIOLOGY
DERMATOLOGY
FORENSIC MEDICINE
GENERAL PRACTICE
FAMILY PRACTICE
GYNECOLOGY
INTERNAL MEDICINE
CARDIOLOGY
ENDOCRINOLoGY
GASTROENTEROLOGY
HEMATOLOGY
IMMUNOLOGY
NEUROLOGY
OBSTETRICS
OPHTHALMOLOGY
OTORHINOLARYNGOLOGY
PATHOLOGY
PATHOLOGY, SURGICAL
PEDIATRICS
NEONATOLOGY
PERINATOLOGY

PHYSICAL MEDICINE
REHABILITATION
PREVENTIVE MEDICINE
INDUSTRIAL MEDICINE
PUBLIC HEALTH
PSYCHIATRY
ADOLESCENT PSYCHIATRY
CHILD PSYCHIATRY
GERIATRIC PSYCHIATRY
PSYCHIATRY, COMMUNITY
PSYCHIATRY, MILITARY
RADIOLOGY
SCHOOL HEALTH
SURGERY
HEART SURGERY
NEUROSURGERY
ORTHOPEDICS
PROCTOLOGY
SURGERY, PLASTIC
UROLOGY
VASCULAR SURGERY
SPORT MEDICINE
TROPICAL MEDICINE

Dentistry

AVIATION DENTISTRY
FORENSIC DENTISTRY
GENERAL PRACTICE, DENTAL
GERIATRIC DENTISTRY
INDUSTRIAL DENTISTRY
MILITARY DENTISTRY
PREVENTIVE DENTISTRY
SCHOOL DENTISTRY
SPECIALTIES, DENTAL
ENDODONTICS
ORTHODONTICS
PATHOLOGY, ORAL
PEDODONTICS
PERIODONTICS
PROSTHODONTICS
PUBLIC HEALTH DENTISTRY
COMMUNITY DENTISTRY
SURGERY, ORAL

Nursing

GERIATRIC NURSING
HOME NURSING
INDUSTRIAL NURSING
MIDWIFERY
MILITARY NURSING
NURSE ANESTHETISTS
NURSE PRACTITIONERS
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<tbody>
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<td>NURSING, PRACTICAL</td>
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<tr>
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<td>DENTAL ASSISTANTS</td>
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<tr>
<td>OPERATING ROOM NURSING</td>
<td>DENTAL HYGIENISTS</td>
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<tr>
<td>PEDIATRIC NURSING</td>
<td>DENTAL TECHNICIANS</td>
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<tr>
<td>PSYCHIATRIC NURSING</td>
<td>DIETETICS</td>
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<tr>
<td>PUBLIC HEALTH NURSING</td>
<td>INHALATION THERAPY</td>
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<tr>
<td>SCHOOL NURSING</td>
<td>NURSES' AIDES</td>
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<tr>
<td>SURGICAL NURSING</td>
<td>PSYCHIATRIC AIDES</td>
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<td>ALLIED HEALTH</td>
<td>NUTRITION</td>
</tr>
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<td>OCCUPATIONAL THERAPY</td>
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<td>OPERATING ROOM TECHNICIANS</td>
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<td>PHARMACISTS' AIDES</td>
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<td>MEDICAL RECORD ADMINISTRATORS</td>
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<td>PODIATRY</td>
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<td>SOCIAL SERVICE</td>
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<td>VETERINARY MEDICINE</td>
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<tr>
<td></td>
<td>VOLUNTARY WORKERS</td>
</tr>
</tbody>
</table>

**ADVANCED ON-LINE SERVICES TRAINING CLASS AT UCLA**

**MARCH 14 - 21, 1977**

*Kathleen A. Cimpl*
University of South Dakota
Yankton, South Dakota

Vcki F. Croft
Washington State University
Pullman, Washington

Janet Erickson
University of Southern California
Los Angeles, California

K. Elaine Graham
Kaiser-Permanente Medical Center
Panorama City, California

Laurel A. Haycock
University of Minnesota
Duluth, Minnesota

**Kay Kammerer**
Alta Bates Hospital
Berkeley, California

Margaret L. Moutseous
University of Arizona
Tucson, Arizona

Richard Pride
Kern Medical Center
Bakersfield, California

Emiko Samard
University of California, Irvine
Orange, California

Marilynn C. Smith
University of Arizona
Tucson, Arizona

*MEDLINE only--did not complete CHEMLINE/TOXLINE section*

**CHEMLINE/TOXLINE section only**
NEW SERIALS ANNOUNCEMENT - MARCH 1977
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section during the month of March. A plus (+) indicates that the title appears in Index Medicus. An asterisk (*) indicates that an issue has actually been received in the library. PLEASE NOTE: NLM CANNOT FILL LOANS FOR TITLES WITHOUT THE ASTERISK(*). THEY HAVE NOT YET BEEN RECEIVED BY THE LIBRARY. The list is offered as an early announcement. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Betsy Humphreys, 301/496-1276, Technical Services Division, NLM.

**ANATOMIA HISTOLOGIA EMBRYOLOGIA**
2, 1973--
Verlag Paul Parey
Cont of Zentralblatt far Veterinmedizin.
Reihe C.: Anatomie, Histologie, Embryologie
Berlin, West Germany

**ANNALES DE DERMATOLOGIE ET DE VENEREOLOGIE**
104, 1977--
Masson
Cont of Annales de Dermatologie et de Syphiligraphie
Paris, France

**ANRALS OF NEUROLOGY**
1, 1977--
Little Brown
American Neurological Association and the Child Neurology Society
Boston, Massachusetts

**ANNEE DU MEDECIN**
1976--
Flammarion Medecine
Paris, France

**BIOFEEDBACK THERAPY**
1, 1976--
Eden Press
St. Louis, Missouri

**BRI BULLETIN**
1977--
Brain Research Institute, UCLA
Los Angeles, California

**CARCINOGENESIS**
1, 1976--
Raven Press
New York, New York

**CELL BIOLOGY INTERNATIONAL REPORTS**
1, 1977
Academic Press
London, England

**CHIRURGIE**
1975--
Masson
Cont of Actualites Chirurgicales
Paris, France

**CRC HANDBOOK OF NUTRITION AND FOOD**
1, 1977--
CRC Press
Cleveland, Ohio

**DENTAL REFLECTIONS**
1, 1976--
Professional Communications Associates
Chicago, Illinois

**DRUG THERAPY REVIEWS**
1, 1977--
Masson et Cie
Paris, France

**DUODENAL ULCER**
1, 1977--
Eden Press
St. Louis, Missouri

**EEG INTERPRETATION**
1, 1977--
Raven Press
New York, New York
EXPOSURE VALUE AUDIT
1977--
Health Industries Research
Darien, Connecticut

FEDERAL INFORMATION SOURCES AND SYSTEMS
1976--
U S General Accounting Office
Washington, DC

FEDERAL PROGRAM EVALUATIONS
1976--
U S General Accounting Office
Washington, DC

*HAEMATOLOGIA
1, 1976--
Akademiai Kiado
Budapest, Hungary

*HEALTH POLICY PROGRAM DISCUSSION PAPER
1, 1975--
University of California at San Francisco
School of Medicine
San Francisco, California

HODGKIN'S DISEASE AND THE LYMPHOMAS
1, 1976--
Eden Press
St. Louis, Missouri

**IMMUNOLOGICAL REVIEWS
33, 1977--
Munksgaard
Cont of Transplantation Reviews
Copenhagen, Denmark

INFANT BEHAVIOR AND DEVELOPMENT
1, 1977--
Brown University.
Child Study Center
Providence, Rhode Island

INTERNATIONAL JOURNAL OF CHILD ABUSE AND NEGLECT
1, 1977--
Pergamon Press
Oxford, England

INTERNATIONAL REVIEW OF BIOCHEMISTRY
13, 1977--
University Park Press
Cont of Biochemistry
Baltimore, Maryland

JOURNAL OF EQUINE MEDICINE AND SURGERY
1, 1977--
Veterinary Publications
Princeton, New Jersey

+JOURNAL OF MEDICAL ENGINEERING AND TECHNOLOGY
1, 1977--
United Trade Press Ltd.
Supersedes Bio-Medical Engineering
London, England

MARRIAGE AND FAMILY REVIEW
1, 1977?--
Haworth Press
New York, New York

MEMBRANE TRANSPORT PROCESSES
1, 1977--
Raven Press
New York, New York

*NATIONAL CANCER INSTITUTE CARCINOGENESIS TECHNICAL REPORT SERIES
1, 1976--
U S National Cancer Institute
Bethesda, Maryland

*ODA JOURNAL
67, 1977--
Oklahoma Dental Association
Cont of Journal - Oklahoma State Dental Association
Oklahoma City, Oklahoma

ORTHOPAEDIC TRANSACTIONS
1, 1977--
Journal of Bone and Joint Surgery
Boston, Massachusetts

PINEAL
1, 1976--
Eden Press
St. Louis, Missouri
INITIAL ON-LINE SERVICES TRAINING CLASS AT NLM  
MARCH 28 - APRIL 1, 1977

Marcia Beseler  
Howard Young Medical Center  
Woodruff, Wisconsin

Ida Brier  
University of the State of New York  
Albany, New York

Sallie Ellison  
General Motors Corporation  
Warren, Michigan

Linda Fernandez  
Armour Pharmaceutical Company  
Kankakee, Illinois

Ada Gams  
New York Academy of Medicine  
New York, New York

Robert Iles  
Marion Laboratories, Inc.  
Kansas City, Missouri

Sister Lois Keller  
St. John's University  
Jamica, New York

Faye Krasner  
Miller-Dawn Hospital & Medical Center  
Duluth, Minnesota

Irene Lathrop  
Rhode Island Hospital  
Providence, Rhode Island

Willis Leavens  
Veterans Administration Hospital  
Allen Park, Michigan

Betsy Lelyveld  
Children's Memorial Hospital  
Chicago, Illinois

Carolyn Nippert  
Allentown & Sacred Heart Hospital Center  
Allentown, Pennsylvania

*TUTORIAL ESSAYS IN PSYCHOLOGY  
1, 1976-  
Halsted Press  
New York, New York

ULTRASOUND IN BIOMEDICINE  
1, 1977-  
Research Studies Press  
Forest Grove, Oregon

*U. S. JOURNAL OF DRUG AND ALCOHOL DEPENDENCE  
1, 1977-  
Drug Abuse Council  
Washington, DC

YEAR BOOK OF FAMILY PRACTICE  
1, 1977-  
Year Book Medical Book Publishers  
Chicago, Illinois
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Karen Potts</td>
<td>NINCDS, National Institutes of Health</td>
<td>Bethesda, Maryland</td>
</tr>
<tr>
<td>Cherryi Povey</td>
<td>University of South Dakota</td>
<td>Vermillion, South Dakota</td>
</tr>
<tr>
<td>Dr. James Powell</td>
<td>The Upjohn Company</td>
<td>Kalamazoo, Michigan</td>
</tr>
<tr>
<td>Adeline Tallau</td>
<td>Rutgers University</td>
<td>Piscataway, New Jersey</td>
</tr>
</tbody>
</table>

**INITIAL ON-LINE SERVICES TRAINING CLASS AT NLM**

**APRIL 4 - 8, 1977**

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barbara Buchanan</td>
<td>GEOMET, Inc.</td>
<td>Gaithersburg, Maryland</td>
</tr>
<tr>
<td>Lucinda Conger</td>
<td>Department of State</td>
<td>Washington, DC</td>
</tr>
<tr>
<td>Judy Consales</td>
<td>Monmouth Medical Center</td>
<td>Long Branch, New Jersey</td>
</tr>
<tr>
<td>James Darr</td>
<td>Environmental Protection Agency</td>
<td>Washington, DC</td>
</tr>
<tr>
<td>Leroy Davis</td>
<td>Library of Congress</td>
<td>Washington, DC</td>
</tr>
<tr>
<td>Larry Kimble</td>
<td>University of North Carolina</td>
<td>Charlotte, North Carolina</td>
</tr>
<tr>
<td>Carol Ann Feld</td>
<td>NINCDS, National Institutes of Health</td>
<td>Bethesda, Maryland</td>
</tr>
<tr>
<td>Karen Fink</td>
<td>Parklawn Health Library</td>
<td>Rockville, Maryland</td>
</tr>
<tr>
<td>Heidi Finkbeiner</td>
<td>The Franklin Institute Research</td>
<td>Jefferson, Arkansas</td>
</tr>
<tr>
<td>Robert Gaines</td>
<td>University of North Carolina</td>
<td>at Greensboro</td>
</tr>
<tr>
<td>Norma Gordon</td>
<td>University of Maryland</td>
<td>College Park, Maryland</td>
</tr>
<tr>
<td>Inara Gravitis</td>
<td>George Washington University</td>
<td>Washington, DC</td>
</tr>
<tr>
<td>Evelyn Hendon</td>
<td>Marshall University</td>
<td>Huntington, West Virginia</td>
</tr>
<tr>
<td>Miriam Mendenhall</td>
<td>National Naval Medical Center</td>
<td>Bethesda, Maryland</td>
</tr>
<tr>
<td>Quynh Hoa Nguyen</td>
<td>Washington Hospital Library</td>
<td>Washington, DC</td>
</tr>
<tr>
<td>Jackie Rustigian</td>
<td>National Library of Medicine</td>
<td>Bethesda, Maryland</td>
</tr>
<tr>
<td>Ilse Vada</td>
<td>National Institute on Drug Abuse</td>
<td>Rockville, Maryland</td>
</tr>
<tr>
<td>Craig Wright</td>
<td>Houston Academy of Medicine</td>
<td>Houston, Texas</td>
</tr>
</tbody>
</table>
LIST OF MONOGRAPHS INDEXED

MAY 1977

A


E


G


CHANGES TO THE INDEX TERMS USED IN CANCERPROJ

The following additions and changes have been made to the Subject Captions (SC) terms in CANCERPROJ, effective February 1977. Please make sure you note these changes in your Hierarchical and Alphabetical Listings.

Changes

GENETIC & EMBRYONIC CARC. to EMBRYONIC CARCINOGENESIS
EFFECT ON CULTURED CELLS to EFFECT DRUGS ON CULTURED CELLS
EFFECTS ON IMMUNE SYSTEM to EFFECTS DRUGS ON IMMUNE SYSTEM
MYELOMA (0384.70.080) to MYELOMA, PARAPROTEINEMIAS
LUNG & PELURA to LUNG AND PLEURA
KIDNEY (0384.70.350.20) to KIDNEY TUMOR THERAPY
BONE CANCER (0384.70.500) to BONE TUMOR THERAPY
RNA CANCER VIRUSES to RODENT RNA CANCER VIRUSES
RAUSCHER VIRUSES to RAUSCHER VIRUSES
OTHER LEUKEMIA/SARCOMA VIRUSES to OTHER RODENT RNA TUMOR VIRUSES
MAMMARY TUMOR VIRUSES to MAMMARY TUMOR VIRUSES (MTV)
EFFECTS OF LEUKEMIA VIRUSES to EFF. OF LEUKEMIA/SARCOMA VIR.
ANTIGEN MODULAT & COMPETITION to ANTIGEN MODULATION & DELETION
CANCER RELATED BIOCHESTRY to CANCER RELATED BIOCHEMISTRY
SPLEEN AND BONE MARROW to SPLEEN

Additions

BURKITT'S LYMPHOMA 0384.70.100.20
OTHER TRACE METALS AND WORKERS 0385.20.100.25
COKE WORKERS 0385.20.100.35
OTHER PLASTICS AND WORKERS 0385.20.200.07
RADIOLOGISTS & RADIOTHERAPISTS 0385.22.300
HAMSTER/GUINEA-PIG-RNA-VIRUSES 0386.05.300.45
DNA REPAIR 0388.20.100.25

*If you prefer a completely new set of updated listings, write
Donna J. Wicker, Data Base Coordinator, National Cancer Institute, ICRDB
Program, 9000 Rockville Pike, Bethesda, Maryland 20014.
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<td>KEYWORD INDEX TO NLM LITERATURE SEARCHES</td>
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<tr>
<td>(NOS 74-1 -- 76-39)</td>
<td></td>
</tr>
<tr>
<td>Appendix A</td>
<td></td>
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TECHNICAL NOTES

PLEASE QUERY THE ON-LINE NEWS FILES DAILY AT NLM FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the heading of each Technical Note will include a reference to the section/page of the NLM On-Line Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual II-9). Users should keep in mind that the item may pertain to other sections of the Manual.

JOURNAL CITATION DATA BASES

MEDLINE and SDILINE were updated with May citations on April 11, 1977. The sizes, Index Medicus date ranges and entry dates are given below:

MEDLINE (Jan 75 - May 77) 661,859
   (Entry dates 741205 to 770401)
SDILINE (May 77) 24,767
   (Entry dates 770315 to 770401)

LINE FEED IN OFF POSITION FOR LOGIN (Manual II)

Many terminals have an option for sending a line feed after the carriage return. ELHILL 3 will not accept this line feed when it is transmitted after a carriage return. Two modes (Direct Dial and TELENET) of network access do not strip this character before transmission to the NLM Systems. It is recommended that this feature be in the off position when using the NLM On-Line Systems.

MODIFICATIONS TO ELHILL 3

1) KEEP is now an alias for RESTACK.
2) An error message will now appear if during OFFSEARCH more than 6 files are searched. The limit is 6 at a time.
3) Users may now explain data bases regardless of which file they are connected to.

EXAMPLE:
   (User is connected to the MEDLINE file)
   USER:
   "EXPLAIN CATLINE"
CHANGES IN LANGUAGE SUBHEADINGS IN CATLINE (Manual VIII-C)

The following changes have been made to CATLINE language subheadings in existing records and will be employed in future records. Please revise your 77 MeSH Appendix C.

DELETE

Annamese
Croatian
Flemish
Mohammedan
Tamashek
Siamese

CHANGE

From To

Azerbaidzhan Azerbaijani
Georgic Georgian
Greek Greek, Modern
Mongolian Mongol
Persian Persian, Modern
Pushtu Pushto
Serbo-Croatian Serbo-Croatian (Cyrillic)
Slavic Slavic (Other)
Ukranian Ukrainian

ADD

Central American Indian (Other)
Serbo-Croatian (Roman)
Burmese
Maori
Marathi
Multilingual
North American Indian (Other)
Turkish

An updated list of MEDLARS Languages and Abbreviations (Manual V-A, MEDLINE APPENDIX A) will be included with the next issue of the NLM Technical Bulletin.
TOXLINE UPDATE - MAY 23, 1977

TOXLINE was updated with 5,137 records as follows:

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<tr>
<th>SUBFILE</th>
<th>COVERAGE</th>
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<tbody>
<tr>
<td>CBAC</td>
<td>VOL. 25, ISSUE 9</td>
<td>1,602</td>
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<tr>
<td>HEEP</td>
<td>JUNE 1977</td>
<td>1,096</td>
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<td>IPA</td>
<td>MARCH 1977</td>
<td>599</td>
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<td>PESTAB</td>
<td>MARCH 1977</td>
<td>234</td>
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<tr>
<td>TOXBIB</td>
<td>JUNE 1977</td>
<td>1,606</td>
</tr>
</tbody>
</table>

TOTAL 5,137

The update tag is 0577 (ST). This brings the total number of records in TOXLINE to 432,358.

AVLINE UPDATE
Virginia White, Technical Services Division, NLM

AVLINE PUBLICATIONS

Portions of the AVLINE data base have been published in print format and are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402.

The National Library of Medicine Current Catalog, January-March 1977 lists 350 titles added to the AVLINE file during the first quarter of 1977. The subject section lists bibliographic and review data with each citation; the name section includes abstracts; the procurement section lists names and addresses of distributors. The price is $6.00; the GPO catalog number is HE 20.3609.

The National Library of Medicine Audiovisual Center Catalog: Audiovisuals for the Health Scientist lists 850 16 mm motion pictures and 3/4-inch videocassettes available on short-term free loan from NMAC in Atlanta, Georgia. The catalog has two sections - the subject section lists bibliographic and review data with each citation; the name/title section includes abstracts. The price is $4.25; the GPO stock number is 017-052-00181-7.

The National Library of Medicine AVLINE Catalog, covering 2400 titles added to the data base in 1975 and 1976, is currently being printed by the Government Printing Office. It will contain only a subject section listing bibliographic and review data. Abstracts will not be included. The catalog will be available in mid-summer.
INCREASED NON-PRIME TIME ON AN EXPERIMENTAL BASIS  
Joseph Leiter, Ph.D., Associate Director, Library Operations

During July and August 1977, the National Library of Medicine is making the period between 11:30 a.m. and 1:00 p.m. eastern time non-prime time. The rate for connect time during this period will be $8.00 per connect hour rather than $15.00 per connect hour during this experimental period only. This new rate applies to SUNY as well as NLM connect time and includes MEDLEARN. Non-U.S. centers are not affected by this experimental rate change.

If this experiment is successful, NLM may continue the non-prime time between 11:30 to 1:00. We will be carefully monitoring usage patterns during July and August to determine whether the non-prime rate encourages users to use the system during non-peak times.

Below is a chart which depicts the typical connect time usage patterns on the NLM computer. The figures are actually for the month of April. You will note that most users are on the system around 10:00 and 2:00 and that the time between 11:30 to 1:00 is under-utilized. This same phenomena is observed at SUNY. As mentioned earlier, the experimental non-prime rate will be in effect for NLM and SUNY connect time during July and August.

The purpose of this experiment is to determine whether the peaks occurring at 10:00 a.m. and 2:00 p.m. can be reduced and spread over the entire period of 10:00 a.m. to 2:00 p.m. as indicated by the dotted line. Since the capacity of the system is determined by the peak demands, the net effect of such a leveling of peaks would be to increase the total capacity of the system and to provide better and faster service. If this experiment is successful we can not only assure you of better service but in addition provide more time at the non-prime rates.
On May 9, 1977 a new data base, CLINPROT (CLINical Cancer PROTocols), was made available to all U.S. and foreign users of the NLM on-line computer system.

This data base is sponsored by the International Cancer Research Data Bank (ICRDB) Program of the National Cancer Institute and should be considered an experimental data base. The present format of the file as well as its continued availability depends on the feedback received by the ICRDB Program during this experimental period.

CLINPROT contains approximately 1,000 summaries of clinical investigations of new anticancer agents and treatment modalities. Most of the protocols were supplied by the Division of Cancer Treatment (DCT) of the National Cancer Institute. Several hundred have also been supplied by major U.S. cancer centers and by sources outside the United States.

The file contains detailed descriptions of all phases of clinical trials: Phase I studies which attempt to define an agent's limiting toxicities, time courses, dose-response relationships, etc.; Phase II studies primarily designed to specify unambiguously the types of tumors which do or do not respond; Phase III which must establish the efficacy of a drug as a meaningful treatment and Phase IV which develops the use of this drug in combination with other therapies. The bulk of the file will be Phase II and Phase III studies.

The protocol descriptions will also define the entry criteria for the patient (e.g. acute leukemia with no prior therapy and no more than 30% blasts in the bone marrow), give the details of the therapy, and provide the dose schedule, special study parameters and the various medical data collected and followed.

CLINPROT is a small highly specialized file which should be most useful to a narrow segment of the total NLM user base. It is primarily designed for clinical oncologists who are actively engaged in the development and testing of new clinical protocols. However, it may also be useful to other clinicians who may wish to be aware of new cancer treatment methods currently being evaluated in controlled clinical trials.

The experimental nature of these protocols is emphasized by a paragraph in each record which states: "Warning: Many of these agents are hazardous and have FDA approval only for clinical investigations by specialists in clinical oncology. In many cases, the protocols are not yet known to be more effective than existing treatment methods."

The unit record is listed below with a description of the data elements.
UNIT RECORD DESCRIPTION*

<table>
<thead>
<tr>
<th>Category Names</th>
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<td>Text Words</td>
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</tbody>
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*All data elements will be displayed with the "PRT DETAILED command.

UNIT RECORD EXPLANATION

1. Investigator - the name of the principal investigator or the cooperative group chairman.

2. ID Number - the supporting agency's identification number and/or the protocol number.

3. Title - the title of the protocol.

4. Location - the name and address of the group conducting the studies.

5. Stratification Points - the entry criteria (parameters) by which patients are chosen.


7. Abstract - a summary of the protocol which includes the objective, approach, dosing schedules, etc.

8. Supporting Agency - the name of the agency which is funding these investigations.

9. Begin Date - the date of first patient entry.
10. End Date - the date the last patient enters the study.
11. Fiscal Year - the fiscal year the studies were funded.
12. Type of Award - an indication of the type of award that was made, grant or contract.
13. SSIE Accession Number - a sequential number input by SSIE as they process the protocols.
14. Performing organization - the name of the group conducting the studies.
15. Country (or State) - the name of the country where the studies are taking place. For U.S., the name of the state and/or USA can be used as a search term.
16. Entry Date - the date the protocol was entered into the NLM computer system.
17. Subject Caption - the specific SSIE indexing terms added.
18. Hierarchical Subject Codes - the numeric codes for each of the specific index terms added.
19. Correction Date - the date when a major change was made to the record.
20. Text Words - all the significant words which appeared in the Title field the Abstract field and the Hierarchical Terms field.

A more complete description of the clinical protocol file will appear in the CLINPROT manual. The new manual will be mailed to all users with the next update to the On-Line Services Reference Manual. Until that time, see the CANCERPROJ manual for a description of the format for searchable data elements.

Free-text searching is the primary searching mechanism but each record is also indexed, as is CANCERPROJ, with controlled terms from the SSIE thesaurus. These controlled terms (Subject Captions) can also be used in searching the data base. The feasibility of enriching the protocol summaries with MeSH terms is being explored.

The ICRDB Program would appreciate any comments or suggestions you may have which would improve this data base. Please send them to the following address:

National Cancer Institute
ICRDB Program
Blair Building, Room 128
8300 Colesville Road
Silver Spring, Maryland 20910
INITIAL ON-LINE SERVICES TRAINING CLASS AT NLM
MAY 2 - 6, 1977

Judith Ashmore
Marine Biological Laboratory
Woods Hole, Massachusetts

Patricia Bissonnette
American Medical Association
Chicago, Illinois

Christine Connor
St. Barnabas Medical Center
Livingston, New Jersey

Raynna Genetti
Central Maine General Hospital
Lewiston, Maine

Louise Geroulo
Veterans Administration Hospital
Lyons, New Jersey

Bonnie Grizzard
Philadelphia College of Pharmacy and Science
Philadelphia, Pennsylvania

Jill Hankison
The Upjohn Company
Kalamazoo, Michigan

Florence Jordan
National Institute of Environmental Health Sciences
Research Triangle Park, North Carolina

Judy Krivanek
Dwight D. Eisenhower Army Medical Center
Ft. Gordon, Georgia

Frank Leon
National Library of Medicine
Bethesda, Maryland

Robert Lyle
Veterans Administration Hospital
Coatesville, Pennsylvania

Jane Pellegrino
St. Francis Hospital & Medical Center
Hartford, Connecticut

Bruce Reid
Veterans Administration Hospital
Wilkes-Barre, Pennsylvania

Karen Reynolds
Merck Sharp & Dohme
West Point, Pennsylvania

Francis Scalzi
Veterans Administration Hospital
Erie, Pennsylvania

David Self
SIU School of Medicine
Springfield, Illinois

Karen Slater
University of Maryland
College Park, Maryland

Kay White
National Medical Audiovisual Center
Atlanta, Georgia

Katherine Wimmer
St. Joseph Hospital
Chicago, Illinois
NEW SERIALS ANNOUNCEMENT - APRIL 1977
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section during the month of April. An asterisk (*) indicates that an issue has actually been received in the Library. PLEASE NOTE: NLM CANNOT FILL LOANS FOR TITLES WITHOUT THE ASTERISK (*). THEY HAVE NOT YET BEEN RECEIVED BY THE LIBRARY. The list offered as an early announcement. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Betsy Humphreys, 301/496-1276, Technical Services Division, NLM.

AMERICAN JOURNAL OF SURGICAL PATHOLOGY
1, 1977-
Masson Publishing USA
New York, New York

BUECHEREI DES PNEUMOLOGEN
1, 1975--
Georg Thieme Verlag
Stuttgart, West Germany

COLLANA CISI DI STUDI MEDICO - SOCIO - SANITARIA
1, 1974--
Centro Italiano studi e indagini per la programmazione sanitaria e sociale
Rome, Italy

CHICOREL INDEX TO MENTAL HEALTH BOOK REVIEWS
1, 1976--
Chicorel Library Pub Corp
Cont Mental
New York, New York

COGNITIVE THERAPY AND RESEARCH
1, 1977--
Plenum
New York, New York

COMMUNICATIONS IN PSYCHOPHARMACOLOGY
1, 1977--
Pergamon Press
Oxford, England

CONVULSIVE THERAPY BULLETIN WITH TARDIVE DYSKENESIA NOTES
1, 1976--
International Psychiatric Association for the Advancement of Electrotherapy
Portland, Oregon

DEATH EDUCATION
1, 1977--
Hemisphere Pub
Washington, DC

DIABETES
1, 1976--
Asociacion Venezolana de Diabetes Seccional Metropolitana
Caracas, Venezuela

DOKUMENTATION MEDIZIN IM UMWELTSCHUTZ
1, 1977--
Institut fur Dokumentation und Information Uber Sozialmedizin
Cont of Dokumentation; Reinaltung der Luft and Medizin
Bielefeld, Germany

EMPLOYEE BENEFITS JOURNAL
1, 1975--
International Foundation of Employee Benefit Plans
Brookfield, Wisconsin

HEALTH FACILITIES COURT DIGEST
1, 1977--
Health Facilities Court Digest
New York, New York

HEALTH PLANNING BIBLIOGRAPHY SERIES
1, 1976--
U.S. Health Resources Administration
Rockville, Maryland

HEALTH SAFETY AND EDUCATION
465, 1977--
Predicast Inc
Cont of Health and Education
Cleveland, Ohio
HOSPITAL AND HEALTHCARE REPORT
1, 1977--
Amacom
New York, New York

JOURNAL OF FOOD QUALITY
1, 1977--
Food and Nutrition Press
Westport, Connecticut

*JOURNAL OF PSYCHIATRIC EDUCATION
1, 1977--
Human Sciences Press
New York, New York

*JOURNAL OF VISUAL IMPAIRMENT AND BLINDNESS
1, 1977--
American Foundation for the Blind
Supersedes New Outlook for the Blind and the Foundation's Research Bulletin
New York, New York

MOTOR SKILLS: THEORY INTO PRACTICE
1, 1976--
Herbert H. Lehman College, Dept of Dhper
New York, New York

POLICY ANALYSIS
1, 1975--
U of California Press
Berkeley, California

POPULATION/FOOD PAPERS
1, 1976--
Population Food Fund
Grand Forks, North Dakota

PROCEEDINGS OF ANNUAL MEETING - AMERICAN ASSOCIATION OF VETERINARY LABORATORY DIAGNOSTICIANS
17, 1974--
American Association of Veterinary Laboratory Diagnosticians
Cont of same title published inside the Proceedings, Annual Meeting - United States Animal Health Association
Madison, Wisconsin

PROCEEDINGS OF THE INTERNATIONAL CONGRESS ON MENOPAUSE
1, 1976--
University Park Press
Baltimore, Maryland

*RAYS
1, 1976--
Edizioni Minerva Medica
Rome, Italy

REGIONAL ANESTHESIA
1, 1976--
American Society of Regional Anesthesia
Richmond, Virginia

TOPICS IN ENZYME AND FERMENTATION BIOTECHNOLOGY
1, 1977--
John Wiley and Sons
New York, New York
LIST OF MONOGRAPHS INDEXED

JUNE 1977

B

ISBN 0-632-00099-8
04NL/M,01HEMS: QX 266 134 1975
IM
Price: 11.00

C

ISBN 0-444-14448-7
04NL/M: WK 725 CS 57 1975
IM
Clt. No. 7701394
Price: 49.95

ISBN 0-444-41447-3
04NL/M: W 40 A1 27 Cc 1976
IM
Clt. No. 7702747

E

ISBN 0-87772-218-1
04NL/M,01HEMS: W 50 EB 85 1974
IM
Clt. No. 7702293

I

ISBN 0-12-256940-7
04NL/M,01HEMS: QX 266 134 1975
IM
Clt. No. 7702317

1. DNA, Mitochondrial - congresses 2. Genetics, Biochemical - congresses I. Kroon, A. M., ed. II. Saccone, C., ed. III. Università degli studi di Bari. Istituto di chimica biologica. IV. Title
ISBN 0-7294-0586-6
04NL/M: QS 603 MS 159 1976
IM
Clt. No. 77030729

04NL/M: QS 675 ID 93 1975
IM
Clt. No. 7702389

04NL/M: W 21.5 B11 P 1975
IM
Clt. No. 7702366

LC: 76-25843


Price: 7.50
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<th>L.S. NO.</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>75-29</td>
<td>ABUSE Child (Updates LS 73-28)</td>
</tr>
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76-38 DRUG addiction Neonatal
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SMOKING related to heart diseases  Hypertension and
SPINAL cord injuries  Rehabilitation in
SPORT medicine
STANDARDS in clinical laboratories  Clinical control, reliability
and (Updates LS 71-25)
SUDDEN cardiac death
SUDDEN unexpected death in infants
SWINE influenza
TALC Untoward effects of
TOMOGRAPHY) EMI scanner (computerized axial
TRAUMA and cancer
TRAUMA Nutrition in
ULCER Licorice in the treatment of peptic
UNTOWARD effects of talc
U.S. Provision of health care to the poor in the (Updates LS 72-21)
VASOACTIVE intestinal polypeptide
VINYL chloride Adverse effects of
VITAMINS in pregnancy and oral contraception  The B
WATER fluoridation

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Send requests with the name and address of the requester, typed on a
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MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland  20014
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TECHNICAL NOTES

PLEASE QUERY THE ON-LINE NEWS FILES DAILY AT NLM FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the heading of each Technical Note will include a reference to the section/page of the NLM On-Line Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual II-9). Users should keep in mind that the item may pertain to other sections of the Manual.

JOURNAL CITATION DATABASES

MEDLINE and SDILINE were updated with 22,171 citations on May 9. The sizes, Index Medicus date ranges and entry dates are given below:

MEDLINE (Jan 75 - June 77) 683,904
(Entry dates 741205 to 770430)

SDILINE (June 77) 22,171
(Entry dates 770415 to 770430)

TYMNET NUMBERS (Manual II-9)

New Numbers:
Erie, PA 814/725-8671 Correspondence
Piscataway, NJ 201/981-0370 Correspondence

ADDITION OF REPRINT SOURCE (RP) ELEMENT TO AUTOMATIC SDI OPTION

Reprint Source (RP) has been added to the elements printed in the second print format option (S201-S400) for searches processed via the Automatic SDI Procedures.

MEDLARS LANGUAGES AND ABBREVIATIONS (Manual V-A)

An updated list of MEDLARS Languages and Abbreviations (Appendix A) is included with this issue of the NLM Technical Bulletin. Please use this updated version instead of the present one in your NLM On-Line Services Reference Manual.

PHONES FILE UPDATED

The PHONES file containing the telephone numbers for Direct Dial, TYMNET, and TELENET access has been updated, FX lines added, and re-formatted for printing the numbers in state and city order to save time in printing. Appendix B is a hard copy of this file. Users may access the file at NLM using the LOGON entry as in the past.

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Assistant Editors: Yvonne B. Scott, Sharon L. Valley, Ph.D.
Technical Notes Editor: Carolyn B. Tilley

Direct inquiries to:
MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20014
301/496-6193
NEW MINOR DESCRIPTORS ADDED TO 1977 MESH IN JUNE-1977

Indexers began using the minor descriptors (see under cross-references) listed in Appendix C as of June 1977. They will be available for searching in the August on-line data base.

TOXLINE UPDATES

TOXLINE was updated with 5,570 records the weekend of June 25, 1977, as follows:

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TOTAL 5,570

The update tag is 0677 (ST).

CHEMLINE REGENERATION

CHEMLINE has been regenerated and contains almost 225,000 records. Some of these records contain a special tag identifying them as being on the Toxic Substances Control Act Inventory Candidate List. A detailed article on these materials will be included in the July 1977 issue of the Technical Bulletin.


Workshop on Minority Dental Student Recruitment, Retention, and Education, Kansas City, Mo., 1975. Proceedings of the Workshop on Minority Dental Student Recruitment, Retention, and Education: the Highrise Holiday Inn, Kansas City, Missouri, April 24-26, 1975 / sponsored by the School of Dent-

1. Education, Dental - manpower - U.S. - congresses
2. Minority Groups - congresses
3. Schools, Dental - U.S. - congresses
4. Sumnicht, Russell W., 1916-
ed.

III. Heart of America Dental Society. IV. U.S. Public Health Service. V. University of Missouri at Kansas City. School of Dentistry. VI. Title

O4NLM: WU 18 W9265p 1975

IM
## MEDLARS LANGUAGES AND ABBREVIATIONS

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### APPENDIX B

**PHONES**

With 120 CPS lines, \( V = \) VADIC 3405 MODEMS and \( B = \) BELL 202C or 202S DATA SETS. UNLESS OTHERWISE NOTED, THE SPEED IS 110-300 BITS PER SECONDS (BPS). (*) DESIGNATES A NLM DIRECT DIAL NUMBER.

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NUMBERS ARE SUBJECT TO CHANGE OR DELETION WITHOUT PRIOR NOTICE.
NEW MINOR DESCRIPTORS ADDED TO 1977 MESH IN JUNE 1977

Indexers began using the minor descriptors (see unders) below as of June 1977. They will be available for searching in the August online data base. The descriptors are given in three lists:

1) An alphabetic list of descriptors

2) A list of descriptors by MeSH Tree Structures subcategories

3) An alphabetic list of descriptors with tree numbers, scope notes, annotations, mappings to major descriptors (Index Medicus headings), and entry terms (see cross references)
NEW MINOR DESCRIPTORS ADDED TO 1977 MESH IN JUNE 1977
(ALPHABETIC LIST)

Admitting Department, Hospital (N2, N4)
Anesthesia Department, Hospital (N2, N4)
Anniversaries and Special Events (K1, N4)
Annual Reports (N4)
Architectural Accessibility (J1)
Cancer Care Facilities (N2)
Capital Expenditures (N3)
Capitation Fee (N3)
Cardiac Care Facilities (N2)
Centralized Hospital Services (N2, N4)
Certificate of Need (N3)
Chaplaincy Service, Hospital (N2, N4)
Commission on Professional and Hospital Activities (N4)
Concurrent Review (N4)
Constitution and Bylaws (N4)
Double-Blind Method (E5, H1)
Electric Wiring (H1)
Elevators and Escalators (J1)
Employee Grievances (N4)
Employee Performance Appraisal (N4)
Endorphins (D12)
Enkephalins (D12)
Ethics, Institutional (K1)
Fire Extinguishing Systems (G3)
Floors and Floorcoverings (J1)
Food Dispensers, Automatic (J1)
Forms and Records Control (N4)
Fraud (I1)
Health Facilities, Proprietary (N2)
Health Facility Merger (N2)
Health Facility Moving (N2)
Health Services, Indigenous (N2)
Health Services Misuse (N2)
Health Services Needs and Demand (N3)
Hospices (N2)
Hospital Auxiliaries (N2)
Hospital Closure (N2, N4)
Hospital Shops (N2)
Hospitals, Group Practice (N2)
Hospitals, Satellite (N2)
Insurance Carriers (N3)
Insurance Claim Reporting (N3)
Insurance, Health, Reimbursement (N3)
Interior Design and Furnishings (J1)
Job Description (N4)
Licensure, Hospital (N3)
Location Directories (J1)
Medical Records Department, Hospital (N2, N4)
Medical Staff Privileges (N2)
Menu Planning (J1, N2)
Obstetrics and Gynecology Department, Hospital (N2, N4)
Occupational Therapy Department, Hospital (N2, N4)
Parking Facilities (J1)
Pathology Department, Hospital (N2, N4)
Patient Escort Service (N2)
Personnel Selection (N4)
Physical Examination, Preadmission (E1)
Physical Therapy Department, Hospital (N2, N4)
Radiology Department, Hospital (N2, N4)
Respiratory Therapy Department, Hospital (N2, N4)
Self Care Units (N2)
Societies, Hospital (N3)
Specialty Boards (N3)
Surgery Department, Hospital (N2, N4)
Urology Department, Hospital (N2, N4)
NEW MINOR DESCRIPTORS ADDED TO 1977 MESH IN JUNE 19/7
(BY SUBCATEGORY)

E

Endorphins
Enkephalins

E1

Physical Examination, Preadmission

E5

Double-Blind Method (H1)

G3

Fire Extinguishing Systems

H1

Double-Blind Method (E5)
Electric Wiring

I1

Fraud

J1

Architectural Accessibility
Elevators and Escalators
Floors and Floorcoverings
Food Dispensers, Automatic
Interior Design and Furnishings
Location Directories
Menu Planning (N2)
Parking Facilities

K1

Anniversaries and Special Events (N4)
Ethics, Institutional

N2

Admitting Department, Hospital (N4)
Anesthesia Department, Hospital (N4)
Cancer Care Facilities
Cardiac Care Facilities
Centralized Hospital Services (N4)
Chaplaincy Service, Hospital (N4)
Health Facilities, Proprietary
Health Facility Merger
Health Facility Moving
Health Services, Indigenous
Health Services Misuse
Hospices
Hospital Auxiliaries
Hospital Closure (N4)
Hospital Shops
Hospitals, Group Practice
Hospitals, Satellite
Medical Records Department, Hospital (N2)
Medical Staff Privileges
Menu Planning (J1)
Obstetrics and Gynecology Department, Hospital (N4)
Occupational Therapy Department, Hospital (N4)
Pathology Department, Hospital (N4)
Patient Escort Service
Physical Therapy Department, Hospital (N4)
Radiology Department, Hospital (N4)
Respiratory Therapy Department, Hospital (N4)
Self Care Units
Surgery Department, Hospital (N4)
Urology Department, Hospital (N4)

N3

Capital Expenditures
Capitation Fee
Certificate of Need
Health Services Needs and Demand
Insurance Carriers
Insurance Claim Reporting
Insurance, Health, Reimbursement
Licensure, Hospital
Societies, Hospital
Specialty Boards

N4

Admitting Department, Hospital (N2)
Anesthesia Department, Hospital (N2)
Anniversaries and Special Events (K1)
Annual Reports
Centralized Hospital Services (N2)
Chaplaincy Service, Hospital (N2)
Commission on Professional and Hospital Activities
Concurrent Review
Constitution and Bylaws
Employee Grievances
Employee Performance Appraisal
Forms and Records Control
Hospital Closure (N2)
Job Description
Medical Records Department, Hospital (N2)
Obstetrics and Gynecology Department, Hospital (N2)
Occupational Therapy Department, Hospital (N2)
Pathology Department, Hospital (N2)
Personnel Selection
Physical Therapy Department, Hospital (N2)
Radiology Department, Hospital (N2)
Respiratory Therapy Department, Hospital (N2)
Surgery Department, Hospital (N2)
Urology Department, Hospital (N2)
MEDICAL SUBJECT HEADINGS

NEW MINOR DESCRIPTORS ADDED TO 1977 MESH IN JUNE 1977

ABUSE OF HEALTH SERVICES see HEALTH SERVICES MISUSE
N2.421.480

ADMITTING DEPARTMENT, HOSPITAL
N2.278.354.423.40 N4.452.444.423.40
Hospital department responsible for the flow of patients and the processing of admissions, discharges, transfers, and also most procedures to be carried out in the event of a patient death.
Aug 77; only /man /stand /util; DF: ADMIT DEP
see under HOSPITAL DEPARTMENTS
X HOSPITAL ADMISSIONS OFFICE
X HOSPITAL ADMITTING DEPARTMENT

ANESTHESIA DEPARTMENT, HOSPITAL
N2.278.354.423.70 N4.452.444.422.70
Hospital department responsible for the administration of functions and activities pertaining to the delivery of anesthetics.
Aug 77; only /man /stand /util; DF: ANESTH DEP
see under HOSPITAL DEPARTMENTS
X HOSPITAL ANESTHESIA DEPARTMENT
X HOSPITAL ANESTHESIA-RESUSCITATION DEPARTMENT

ANNIVERSARIES AND SPECIAL EVENTS
K1.419.95 N4.452.822.70
Occasions to commemorate an event or occasions designated for a specific purpose.
Aug 77; NIM; no qualif
see under PUBLIC RELATIONS
X DEDICATIONS

ANNUAL REPORTS
N4.482.70
Annual statements concerning the administrative and operational functions of an institution or organization.
Aug 77; NIM; no qualif
see under ORGANIZATION AND ADMINISTRATION

ARCHITECTURAL ACCESSIBILITY
J1.86.339.70
Designs for approaching areas inside or outside facilities.
Aug 77; only /stand
see under FACILITY DESIGN AND CONSTRUCTION
X BARRIERS, ARCHITECTURAL
X FACILITY ACCESS
X RAMPS

BARRIERS, ARCHITECTURAL see ARCHITECTURAL ACCESSIBILITY
J1.86.339.70

BYLAWS see CONSTITUTION AND BYLAWS
N4.452.150

CANCER CARE FACILITIES
N2.278.421.556.70
Institutions specializing in the care of cancer patients.
Aug 77; only /man /stand /util CATALOG: /geog /form
see under HOSPITALS, SPECIAL

CAPITAL EXPENDITURES
N3.219.90
Those funds disbursed for facilities and equipment.
Aug 77; no qualif
see under ECONOMICS

CAPITATION FEE
N3.219.442.90
A method of payment of health services in which an individual provider is paid a fixed, per capita amount without regard to actual number or nature of services provided each patient.
Aug 77; "capitation" refers to "a fixed per capita amt without regard to no. or nature of serv provided"; only /class /hist /stand
see under FEES AND CHARGES
X FEE, CAPITATION

CARDIAC CARE FACILITIES
N2.278.421.556.110
Institutions specializing in the care of patients with heart disorders.
Aug 77; only /man /stand /util CATALOG: /geog /form
see under HOSPITALS, SPECIAL

CARPET see FLOORS AND FLOORCOVERINGS
J1.86.339.140

CENTRALIZED HOSPITAL SERVICES
N2.278.354.110 N4.452.442.110
The coordination of services in one area of a facility to improve efficiency.
Aug 77; only /man /stand /util; do not confuse with HOSPITAL CENTRAL SUPPLY
see under HOSPITAL ADMINISTRATION
X HOSPITAL SERVICES, CENTRALIZED

CERTIFICATE OF NEED
N3.349.550.120
A certificate issued by a governmental body to an individual or organization proposing to construct or modify a health facility, or to offer a new or different service.
Aug 77; regional or area needs, not personal or financial need; - so qualif; specify geog
see under REGIONAL HEALTH PLANNING
CHAPLAINCY SERVICE, HOSPITAL
N4.278.354.422.270 N4.452.442.422.270
Hospital department which administers religious activities within the
hospital, e.g. pastoral care, religious services.
Aug 77; only /man /stand /util
under HOSPITAL DEPARTMENTS
HOSPITAL CHAPLAINCY SERVICE

COMMISSION ON PROFESSIONAL AND HOSPITAL
ACTIVITIES
N4.761.380.100
The non-profit, non-governmental organization which collects,
processes and distributes data on hospital use. Two programs of the
Commission are the Professional Activity Study and the Medical Audit
Program.
Aug 77; only /hist; add UNITED STATES (NIM); DF: CPHA
CATALOG: use NAF entry
see under MEDICAL AUDIT

CONCURRENT REVIEW
N4.761.879.200
Review of the medical necessity of hospital or other health facility
admissions, upon or within a short time following an admission, and
periodical review of services provided during the course of treatment.
Aug 77; only /methods /stand
see under UTILIZATION REVIEW
X CONTINUED STAY REVIEW

CONSTITUTION AND BYLAWS
N4.452.150
The fundamental principles and laws adopted by an organization for
the regulation and governing of its affairs.
Aug 77; NIM: no qual; coord with specific organlz or society (IM)
+ geog
see under ORGANIZATION AND ADMINISTRATION
X BYLAWS

DEDICATIONS see ANNIVERSARIES AND SPECIAL EVENTS
K1.419.95 N4.452.822.70

DOUBLE-BLIND METHOD
E5.318.180 H1.770.644.728.300
A method of studying a drug or procedure in which both the subjects
and investigators are kept unaware of who is actually getting which
specific treatment.
Aug 77; IM only as a research technlc; NIM here each time the check
tag CLINICAL RESEARCH is checked for double-blind studies; only
/stand /util (If by MeSH definition)
see under RESEARCH DESIGN

ELECTRIC WIRING
H1.671.252.310
An arrangement of wires distributing electricity.
Aug 77; no qual
see under ELECTRICITY

ELEVATORS AND ESCALATORS
J1.86.339.115
Mechanical ascending and descending devices which convey objects
and/or people.
Aug 77; for people or equipment; only /stand
see under FACILITY DESIGN AND CONSTRUCTION
X ESCALATORS

EMPLOYEE GRIEVANCES
N2.677.362
A procedure whereby the employee expresses any
inflection or feeling of injustice regarding the work situation.
Aug 77; no qual
see under PERSONNEL MANAGEMENT

EMPLOYEE PERFORMANCE APPRAISAL
N4.452.677.370
The assessment of the functioning of an employee in relation to his
work.
Aug 77; no qual
see under PERSONNEL MANAGEMENT

ENDORPHINS
D12.644.150 D12.776.641.240
Endogenous peptides with morphine-like actions found in the brain,
cerebrospinal fluid and pituitary gland. They are believed to bind
to the opiate receptors in the nervous system. Specific endorphins
are pentapeptides called ENKEPHALINS.
Aug 77; do not use /analogs
see under PEPTIDES
X OPIOID PEPTIDES

ENKEPHALINS
D12.644.150.250 D12.776.641.240.250
Endogenous pentapeptides which mimic the action of morphine in the
nervous system. Found in the brain and pituitary gland. May be
synthesized in these organs or possibly degraded from larger peptides
called ENDORPHINS, which have similar physiological actions.
Aug 77; do not use /analogs
see under OPIOID PEPTIDES

ESCALATORS see ELEVATORS AND ESCALATORS
J1.86.339.115

ETHICS, INSTITUTIONAL
K1.316.190
The moral and ethical obligations or responsibilities of institutions.
Aug 77; only /hist; coord IM with type of institution (IM); specify
geog if pertinent
see under ETHICS

FACILITY ACCESS see ARCHITECTURAL ACCESSIBILITY
J1.86.339.70

FEE, CAPITATION see CAPITATION FEE
N3.219.442.90

FIRE EXTINGUISHING SYSTEMS
G3.250.100.120.110
Automatic or hand operated equipment used to control and extinguish
fires.
Aug 77; no qual
see under FIRES

FLOORS AND FLOORCOVERINGS
J1.86.339.140
The surface of a structure upon which one stands or walks.
Aug 77; for houses, commerce estab, hosp, institutions, etc.; only /stand
see under FACILITY DESIGN AND CONSTRUCTION
X CARPETS

FOOD DISPENSERS, AUTOMATIC
J1.364.420
Mechanical food dispensing devices.
Aug 77; only /class /stand /util
see under FOOD SERVICES
X VENDING MACHINES, FOOD

FORMS AND RECORDS CONTROL
N4.452.758.572.180
A management function in which standards and guidelines are
developed for the developing, maintaining, and handling of forms and
records.
Aug 77; only /man /methods /stand; coord NIM with specific records
heading (e.g., MEDICAL RECORDS, NURSING RECORDS) (IM)
see under OFFICE MANAGEMENT
X RECORDS CONTROL

G3.250.100.120.110
FRAUD
11.198.240.300
Exploitation through misrepresentation of the facts or concealment of the purposes of the exploiter.
Aug 77; no qualif see under CRIME

FURNITURE see INTERIOR DESIGN AND FURNISHINGS J1.86.339.290

HEALTH FACILITIES, PROPRIETARY N2.278.215
Health care institutions operated by private groups or corporations for a profit.
Aug 77; "operated by private groups or corporations for a profit"; do not use /educ /methods CATALOG: /geog /form see under HEALTH FACILITIES

HEALTH FACILITY MERGER N2.278.235
The combining of administrative and organizational resources of two or more health care facilities.
Aug 77; do not use /educ /methods see under HEALTH FACILITIES

HEALTH FACILITY MOVING N2.278.255
The relocation of health care institutions or units thereof; Includes equipment relocation.
Aug 77; do not use /educ /methods see under HEALTH FACILITIES

HEALTH INSURANCE REIMBURSEMENT see INSURANCE, HEALTH, REIMBURSEMENT N3.219.521.578.345.470

HEALTH SERVICES, INDIGENOUS N2.421.330
Health care provided to specific cultural or tribal peoples which incorporates local customs, belief and taboos.
Aug 77; "health care provided to specific cultural or tribal peoples which incorporates local customs, beliefs & taboos"; only /class /hist /man /stand /supply /util (If by MeSH definition); specify ethnic group (IM) + geog CATALOG: /geog /form see under HEALTH SERVICES

HEALTH SERVICES MISUSE N2.421.460
Excessive or unnecessary utilization of health services by patients or physicians.
Aug 77; misuse, overuse or abuse by patient or physician; no qualif see under HEALTH SERVICES

X ABUSE OF HEALTH SERVICES
X MISUSE OF HEALTH SERVICES
X OVERUTILIZATION OF HEALTH SERVICES

HEALTH SERVICES NEEDS AND DEMAND N3.346.300
Health services required by a population or community; also health services that the population or community is able and willing to pay for.
Aug 77; no qualif; specify geog see under HEALTH AND WELFARE PLANNING

HOSPICES N2.278.341.556.210
Facilities which are especially prepared to provide palliative and supportive care to the dying patient and his family.
Aug 77; "palliative & supportive care to the dying patient & his family"; only /class /hist /man /stand /supply /util (if by MeSH definition); specify geog CATALOG: /geog /form see under HOSPITALS, SPECIAL

HOSPITAL ADMISSIONS OFFICE see ADMITTING DEPARTMENT, HOSPITAL N2.278.354.422.40 N4.452.442.422.40

HOSPITAL ADMITTING DEPARTMENT see ADMITTING DEPARTMENT, HOSPITAL N2.278.354.422.40 N4.452.442.422.40

HOSPITAL ANESTHESIA DEPARTMENT see ANESTHESIA DEPARTMENT, HOSPITAL N2.278.354.422.70 N4.452.442.422.70

HOSPITAL ANESTHESIA-RESUSCITATION DEPARTMENT see ANESTHESIA DEPARTMENT, HOSPITAL N2.278.354.422.70 N4.452.442.422.70

HOSPITAL AUXILIARIES N2.350.952.473.110
Volunteer organizations whose members perform work for the hospital without compensation.
Aug 77; only /man /stand /supply /util see under HOSPITAL VOLUNTEERS

HOSPITAL CHAPLAINCY SERVICE see CHAPLAINCY SERVICE, HOSPITAL N2.278.354.422.270 N4.452.442.422.270

HOSPITAL CLOSURE N2.278.354.310 • N4.452.442.300
Shutting-down of a hospital.
Aug 77; no qualif see under HOSPITAL ADMINISTRATION

HOSPITAL GIFT SHOPS see HOSPITAL SHOPS N2.278.354.700

HOSPITAL LICENSURE see LICENSURE, HOSPITAL N3.706.690.300

HOSPITAL MEDICAL RECORDS DEPARTMENT see MEDICAL RECORDS DEPARTMENT, HOSPITAL N2.278.354.422.465 N4.452.442.422.465

HOSPITAL OBSTETRICS AND GYNECOLOGY DEPARTMENT OBSTETRICS AND GYNECOLOGY DEPARTMENT, HOSPITAL N2.278.354.422.465 N4.452.442.422.465

HOSPITAL OCCUPATIONAL THERAPY DEPARTMENT see OCCUPATIONAL THERAPY DEPARTMENT, HOSPITAL N2.278.354.422.500 N4.452.442.422.500

HOSPITAL PATHOLOGY DEPARTMENT see PATHOLOGY DEPARTMENT, HOSPITAL N2.278.354.422.535 N4.452.442.442.535

HOSPITAL PHYSICAL THERAPY DEPARTMENT see PHYSICAL THERAPY DEPARTMENT, HOSPITAL N2.278.354.422.615 N4.452.442.422.615

HOSPITAL RADIOLOGY DEPARTMENT see RADIOLOGY DEPARTMENT, HOSPITAL N2.278.354.422.695 N4.452.442.442.695

HOSPITAL RESPIRATORY THERAPY DEPARTMENT see RESPIRATORY THERAPY DEPARTMENT, HOSPITAL N2.278.354.422.712 N4.452.442.422.712

HOSPITAL SERVICES, CENTRALIZED see CENTRALIZED HOSPITAL SERVICES N2.278.354.110 N4.452.442.110

HOSPITAL SHOPS N2.278.354.700
Stores located in hospitals selling merchandise or services for the convenience of patients, staff and visitors.
Aug 77; only /man /stand /util see under HOSPITAL ADMINISTRATION

X HOSPITAL GIFT SHOPS —

HOSPITAL SURGERY DEPARTMENT see SURGERY DEPARTMENT, HOSPITAL N2.278.354.422.750 N4.452.442.422.750

HOSPITAL TREATMENT DEPARTMENT see TREATMENT DEPARTMENT, HOSPITAL N2.278.354.422.810 N4.452.442.422.810

HOSPITAL VOLUNTEERS see VOLUNTEERS, HOSPITAL N2.350.952.473.110

HEALTH INSURANCE REIMBURSEMENT see INSURANCE, HEALTH, REIMBURSEMENT N3.219.521.578.345.470

INSURANCE, HEALTH, REIMBURSEMENT
HOSPITAL UROLOGY DEPARTMENT see UROLOGY DEPARTMENT, HOSPITAL
N2.278.354.422.790  N4.452.442.422.790
TALS, BRANCH see HOSPITALS, SATELLITE .78.421.530

HOSPITALS, GROUP PRACTICE
N2.278.421.395
Hospitals organized and controlled by a group of physicians who practice together and provide each other with mutual support. Aug 77; do not use /educ /methods; specify geog CATALOG: /geog /form see under HOSPITALS

HOSPITALS, SATELLITE
N2.278.421.530
Those hospitals which are extensions of a main hospital and are wholly or partly administered by that hospital. Aug 77; do not use /educ /methods; specify geog CATALOG: /geog /form see under HOSPITALS, BRANCH

INSURANCE CARRIERS
N3.219.521.576.160
Organizations which assume the financial responsibility for the risks of policyholders. Aug 77; no qualif; specify geog if pertinent see under INSURANCE X INSURERS

INSURANCE-CLAIM REPORTING
N3.219.521.576.210
The design, completion and filing of forms with the insurer. Aug 77; no qualif see under INSURANCE

INSURANCE, HEALTH, REIMBURSEMENT
N3.219.521.576.470
Payment of charges by a health insurer either to the provider of the service or the insured. Aug 77; no qualif; specify geog if pertinent see under INSURANCE, HEALTH X HEALTH INSURANCE REIMBURSEMENT X REIMBURSEMENT, HEALTH INSURANCE

INSURERS see INSURANCE CARRIERS
N3.219.521.576.160

INTERIOR DESIGN AND FURNISHINGS
J1.86.339.290
The planning of the furnishings and decorations of an architectural interior. Aug 77; for houses, commere estab, hosp, institutions, etc.; only /stand see under FACILITY DESIGN AND CONSTRUCTION X FURNITURE

JOB DESCRIPTION
N4.452.477.410
Statement of the position requirements, qualifications for the position, wage range and any special conditions expected of the employee. Aug 77; no qualif see under PERSONNEL MANAGEMENT X POSITION DESCRIPTION

LICENSURE, HOSPITAL
N3.706.690.350
Granting of a license to a hospital. /; by the state; differentiate from ACCREDITATION (by the commission); IM: only /hist; specify geog CATALOG: /geog /form see under LICENSURE X HOSPITAL LICENSURE

LOCATION DIRECTORIES
J1.86.339.400
Directory signs or listings of designated areas within or without a facility. Aug 77; only /stand see under FACILITY DESIGN AND CONSTRUCTION X SIGNS AND SIGNPOSTING

MEDICAL RECORDS DEPARTMENT, HOSPITAL
N2.278.354.422.465  N4.452.442.422.465
Hospital department responsible for the creating, care, storage and retrieval of medical records. Also provides statistical information for the medical and administrative staff. Aug 77; only /man /stand /util; DF: MED REC DEP see under HOSPITAL DEPARTMENTS X HOSPITAL MEDICAL RECORDS DEPARTMENT

MEDICAL STAFF PRIVILEGES
N2.356.559.600
Those rights or activities which are specific to members of the institution's medical staff, including the right to admit private patients. Aug 77; no qualif see under HOSPITAL MEDICAL STAFF

MENU PLANNING
J1.364.510  N2.421.242.472.310
Aug 77; domestic, commercial, institutional, hosp, etc.; no qualif see under FOOD SERVICES

MINIMAL CARE UNITS see SELF CARE UNITS
N2.278.356.740

MISUSE OF HEALTH SERVICES see HEALTH SERVICES MISUSE
N2.421.480

OBSTETRICS AND GYNECOLOGY DEPARTMENT, HOSPITAL
N2.278.354.422.495  N4.452.442.422.495
Hospital department responsible for the administration and the management of services provided for obstetric and gynecologic patients. Aug 77; only /man /stand /util; DF: OBSTET GYNECOL DEP see under HOSPITAL DEPARTMENTS X HOSPITAL OBSTETRICS AND GYNECOLOGY DEPARTMENT

OCCUPATIONAL THERAPY DEPARTMENT, HOSPITAL
N2.278.354.422.500  N4.452.442.422.500
Aug 77; only /man /stand /util; DF: OCCUP THER DEP see under HOSPITAL DEPARTMENTS X HOSPITAL OCCUPATIONAL THERAPY DEPARTMENT

OPIOID PEPTIDES see ENDORPHINS
D12.644.150  D12.778.641.240

OVERUTILIZATION OF HEALTH SERVICES see HEALTH SERVICES MISUSE
N2.421.480

PARKING FACILITIES
J1.86.339.490
Indoor or outdoor areas designated for the parking of vehicles. Aug 77; only /stand see under FACILITY DESIGN AND CONSTRUCTION

PATHOLOGY DEPARTMENT, HOSPITAL
N2.278.354.422.535  N4.452.442.422.535
Hospital department which administers and provides pathology services. Aug 77; only /man /stand /util; DF: PATHOL DEP see under HOSPITAL DEPARTMENTS X HOSPITAL PATHOLOGY DEPARTMENT
PATIENT ESCORT SERVICE
N2.350.952.473.310
A special service provided by volunteers to accompany patients who need help in moving about the health facility.
Aug 77; only /stand /util 
see under HOSPITAL VOLUNTEERS

PERSONNEL RECRUITMENT see PERSONNEL SELECTION
N4.452.677.500

PERSONNEL SELECTION
N4.452.677.500
The process of choosing employees for specific types of employment; includes recruitment.
Aug 77; includes recruiting; no qualif 
see under PERSONNEL MANAGEMENT
X PERSONNEL RECRUITMENT

PHYSICAL EXAMINATION, PREADMISSION
E.706.740
Physical examination including laboratory and radiologic studies done prior to institutional admission.
Aug 77; only /instrum /methods /stand 
see under PHYSICAL EXAMINATION

PHYSICAL THERAPY DEPARTMENT, HOSPITAL
N2.378.354.432.615 N4.452.442.432.615
Hospital department which is responsible for the administration and provision of diagnostic and medical rehabilitation service to restore or improve the functional capacity of the patient.
Aug 77; only /man /stand /util; DF: PHYS THER DEP 
see under HOSPITAL DEPARTMENTS
X HOSPITAL PHYSICAL THERAPY DEPARTMENT

POSITION DESCRIPTION see JOB DESCRIPTION
N4.452.677.410

PROFESSIONAL ACTIVITY STUDY see COMMISSION ON PROFESSIONAL AND HOSPITAL ACTIVITIES
N4.781.380.100

RADIOLOGY DEPARTMENT, HOSPITAL
N2.378.354.432.695 N4.452.442.432.695
Hospital department which is responsible for the administration and provision of x-ray diagnostic and therapeutic services.
Aug 77; restricted to x-ray diag & ther serv: does not include radiotopes; only /man /stand /util; DF: RADiol DEP 
see under HOSPITAL DEPARTMENTS
X HOSPITAL RADIOLOGY DEPARTMENT
X X-RAY DEPARTMENTS

RAMPs see ARCHITECTURAL ACCESSIBILITY
J.1.6.339.70

RECORDS CONTROL see FORMS AND RECORDS CONTROL
N4.452.780.572.160

REIMBURSEMENT, HEALTH INSURANCE see INSURANCE, HEALTH, REIMBURSEMENT
N2.319.821.876.343.470

RESPIRATORY THERAPY DEPARTMENT, HOSPITAL
N2.378.354.432.712 N4.452.442.432.712
Hospital department which is responsible for the administration of diagnostic pulmonary function tests and of procedures to restore optimum pulmonary ventilation.
Aug 77; only /man /stand /util; DF: RESP THER DEP 
see under HOSPITAL DEPARTMENTS
X HOSPITAL RESPIRATORY THERAPY DEPARTMENT

SELF CARE UNITS
N2.378.380.740
Rooms in health care facilities for patients who require a minimal level of care.
Aug 77; only /stand /util (NIM only) 
see under HOSPITAL UNITS
X MINIMAL CARE UNITS

SOCIAL SERVICES
N2.350.952.473.310
A special service provided by volunteers to accompany patients who need help in moving about the health facility.
Aug 77; only /stand /util 
see under HOSPITAL VOLUNTEERS

PERSONNEL RECRUITMENT see PERSONNEL SELECTION
N4.452.677.500

PERSONNEL SELECTION
N4.452.677.500
The process of choosing employees for specific types of employment; includes recruitment.
Aug 77; includes recruiting; no qualif 
see under PERSONNEL MANAGEMENT
X PERSONNEL RECRUITMENT

PHYSICAL EXAMINATION, PREADMISSION
E.706.740
Physical examination including laboratory and radiologic studies done prior to institutional admission.
Aug 77; only /instrum /methods /stand 
see under PHYSICAL EXAMINATION

PHYSICAL THERAPY DEPARTMENT, HOSPITAL
N2.378.354.432.615 N4.452.442.432.615
Hospital department which is responsible for the administration and provision of diagnostic and medical rehabilitation service to restore or improve the functional capacity of the patient.
Aug 77; only /man /stand /util; DF: PHYS THER DEP 
see under HOSPITAL DEPARTMENTS
X HOSPITAL PHYSICAL THERAPY DEPARTMENT

POSITION DESCRIPTION see JOB DESCRIPTION
N4.452.677.410

PROFESSIONAL ACTIVITY STUDY see COMMISSION ON PROFESSIONAL AND HOSPITAL ACTIVITIES
N4.781.380.100

RADIOLOGY DEPARTMENT, HOSPITAL
N2.378.354.432.695 N4.452.442.432.695
Hospital department which is responsible for the administration and provision of x-ray diagnostic and therapeutic services.
Aug 77; restricted to x-ray diag & ther serv: does not include radiotopes; only /man /stand /util; DF: RADiol DEP 
see under HOSPITAL DEPARTMENTS
X HOSPITAL RADIOLOGY DEPARTMENT
X X-RAY DEPARTMENTS

RAMPs see ARCHITECTURAL ACCESSIBILITY
J.1.6.339.70

RECORDS CONTROL see FORMS AND RECORDS CONTROL
N4.452.780.572.160

REIMBURSEMENT, HEALTH INSURANCE see INSURANCE, HEALTH, REIMBURSEMENT
N2.319.821.876.343.470

RESPIRATORY THERAPY DEPARTMENT, HOSPITAL
N2.378.354.432.712 N4.452.442.432.712
Hospital department which is responsible for the administration of diagnostic pulmonary function tests and of procedures to restore optimum pulmonary ventilation.
Aug 77; only /man /stand /util; DF: RESP THER DEP 
see under HOSPITAL DEPARTMENTS
X HOSPITAL RESPIRATORY THERAPY DEPARTMENT

SELF CARE UNITS
N2.378.380.740
Rooms in health care facilities for patients who require a minimal level of care.
Aug 77; only /stand /util (NIM only) 
see under HOSPITAL UNITS
X MINIMAL CARE UNITS

SOCIAL SERVICES
N2.350.952.473.310
A special service provided by volunteers to accompany patients who need help in moving about the health facility.
Aug 77; only /stand /util 
see under HOSPITAL VOLUNTEERS

PERSONNEL RECRUITMENT see PERSONNEL SELECTION
N4.452.677.500

PERSONNEL SELECTION
N4.452.677.500
The process of choosing employees for specific types of employment; includes recruitment.
Aug 77; includes recruiting; no qualif 
see under PERSONNEL MANAGEMENT
X PERSONNEL RECRUITMENT

PHYSICAL EXAMINATION, PREADMISSION
E.706.740
Physical examination including laboratory and radiologic studies done prior to institutional admission.
Aug 77; only /instrum /methods /stand 
see under PHYSICAL EXAMINATION

PHYSICAL THERAPY DEPARTMENT, HOSPITAL
N2.378.354.432.615 N4.452.442.432.615
Hospital department which is responsible for the administration and provision of diagnostic and medical rehabilitation service to restore or improve the functional capacity of the patient.
Aug 77; only /man /stand /util; DF: PHYS THER DEP 
see under HOSPITAL DEPARTMENTS
X HOSPITAL PHYSICAL THERAPY DEPARTMENT

POSITION DESCRIPTION see JOB DESCRIPTION
N4.452.677.410

PROFESSIONAL ACTIVITY STUDY see COMMISSION ON PROFESSIONAL AND HOSPITAL ACTIVITIES
N4.781.380.100

RADIOLOGY DEPARTMENT, HOSPITAL
N2.378.354.432.695 N4.452.442.432.695
Hospital department which is responsible for the administration and provision of x-ray diagnostic and therapeutic services.
Aug 77; restricted to x-ray diag & ther serv: does not include radiotopes; only /man /stand /util; DF: RADiol DEP 
see under HOSPITAL DEPARTMENTS
X HOSPITAL RADIOLOGY DEPARTMENT
X X-RAY DEPARTMENTS

RAMPs see ARCHITECTURAL ACCESSIBILITY
J.1.6.339.70

RECORDS CONTROL see FORMS AND RECORDS CONTROL
N4.452.780.572.160

REIMBURSEMENT, HEALTH INSURANCE see INSURANCE, HEALTH, REIMBURSEMENT
N2.319.821.876.343.470

RESPIRATORY THERAPY DEPARTMENT, HOSPITAL
N2.378.354.432.712 N4.452.442.432.712
Hospital department which is responsible for the administration of diagnostic pulmonary function tests and of procedures to restore optimum pulmonary ventilation.
Aug 77; only /man /stand /util; DF: RESP THER DEP 
see under HOSPITAL DEPARTMENTS
X HOSPITAL RESPIRATORY THERAPY DEPARTMENT

SELF CARE UNITS
N2.378.380.740
Rooms in health care facilities for patients who require a minimal level of care.
Aug 77; only /stand /util (NIM only) 
see under HOSPITAL UNITS
X MINIMAL CARE UNITS
THE NLM TECHNICAL BULLETIN
FORMED BY THE UNION OF
THE LIBRARY NETWORK/MEDLARS TECHNICAL BULLETIN AND THE TOXLINE TECHNICAL BULLETIN
JULY 1977 No. 99

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TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY AT NLM FOR SPECIAL NOTICES AND MESSAGES.

Whenever applicable, the headings of each Technical Note will include a reference to the section/page of the NLM Online Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual II-9). Users should keep in mind that the item may pertain to other sections of the Manual.

JOURNAL CITATION DATABASES

MEDLINE and SDILINE were updated with 23,001 citations on June 6, 1977. The sizes, Index Medicus date ranges and entry dates are given below:

- MEDLINE (Jan 75 - July 77) 706,905
  (Entry dates 741205 to 770527)
- SDILINE (July 77) 23,001
  (Entry dates 770512 to 770527)

CORRECTING "STOP COMMAND"

Users have been experiencing difficulty with logging into the system and receiving the message "ID already in use". It has been determined that part of this problem is caused when the "stop" command is input and the single character delete symbol is used. To alleviate this problem, please do not use the single character delete (either the backward slash or the back arrow or the underscore) when entering the command "STOP. If a mistake is made, please use the dollar sign ($) to delete the line. This only applies to the "STOP command.

EPILEPSYLINE ACCESS FOR FOREIGN CENTERS

EPILEPSYLINE is now available to all non-U.S. centers under the normal quid-pro-quo agreements.

NLM AUDIOVISUALS

Several audiovisuals produced by NLM have changed in price and in ordering procedures. Listed below is the most current information:

Order from: National Audiovisual Center (GSA)
Order Section
Washington, D.C. 20409
Phone: 202/763-1896

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Editor: Grace H. McCarn
Assistant Editors: Yvonne B. Scott
                Sharon L. Valley, Ph.D.
Technical Notes Editor: Carolyn B. Tilley

Direct inquiries to:
MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20014
301/496-6193
ON-LINE HOURS, NLM AND SUNY

Effective July 1, 1977, the on-line hours of service at NLM and SUNY have been extended until 9 p.m. during July and August 1977 on an experimental basis. All times are Eastern Daylight Time.

<table>
<thead>
<tr>
<th></th>
<th>NLM</th>
<th>SUNY</th>
</tr>
</thead>
<tbody>
<tr>
<td>MONDAY</td>
<td>3 A.M. - 6 P.M.</td>
<td>8 A.M. - 9 P.M.</td>
</tr>
<tr>
<td>TUESDAY</td>
<td>8 A.M. - 9 P.M.</td>
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<td>WEDNESDAY</td>
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<td>THURSDAY</td>
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<td>3 A.M. - 9 P.M.</td>
<td>8 A.M. - 6 P.M.</td>
</tr>
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</table>

ANNOTATED MeSH, 1977, Page 379 CORRECTION

The Annotated 1977 MeSH on Page 379 incorrectly states:

NECROSIS, ASEPTIC see OSTEONECROSIS
NECROSIS, AVASCULAR see OSTEONECROSIS

They are actually in the computer and should be in MeSH as below and if input as above will not retrieve postings.

Correct entry term input to receive postings:

NECROSIS, ASEPTIC, OF BONE
NECROSIS, AVASCULAR, OF BONE
or OSTEONECROSIS (MH)
CHANGES IN THE MEDLINE AND SDILINE DATA BASES
Joseph Leiter, Ph.D., Associate Director for Library Operations, NLM

NLM has recently learned of a limitation in the absolute physical size of a file permissible in the MEDLARS system under IBM's Basic Direct Access Method (BDAM). The full size limitation is 65,536 tracks. With the July update to the MEDLINE file, 59,857 tracks have been used leaving only 5,679 tracks for the rest of this year. If no action were taken, the MEDLINE file size would be exceeded with the addition of the October 1977 Index Medicus update.

NLM is working with IBM to try to solve the problem of the file size limitation but a solution is not anticipated in time to allow NLM to continue input to the MEDLINE file on the same basis as in the past.

After careful review of the alternatives available, NLM has adopted the following actions:

1. Citations entered into MEDLINE as part of the August update do not include abstracts. However, the Abstract Source (AS) field does contain an indication that an abstract would have been available if input. Abstracts can be obtained from the SDILINE file for the current month.

2. The August SDILINE file includes abstracts as usual. However a limit on abstracts of 200 words per abstract has been imposed for the remainder of this and subsequent years. Abstracts exceeding the two hundred word limit will not be keyboarded or input. Publishers will be notified of this action to encourage them to provide shorter abstracts. Future SDILINE updates will continue in the present format.

3. The updates for September through December 1977 MEDLINE data base will not include abstracts, place of publication, reprint source and two other data elements which are used only for internal NLM purposes. These elements will all be included in the monthly SDILINE files (please note that SDILINE will not be a cumulative file; abstracts and reprint source will be available only on the current SDILINE).

As noted above, place of publication (PL) is being dropped. Searchers should use instead the Place of Publication Classification Number (PN) to limit searches to geographical areas. All PN's can be found in the Alphabetic MeSH and in the "Z" category of the MeSH Tree Structures. Also, the Place of Publication Classification Number can be located by using the "MESHNO Command, i.e., "MESHNO POLAND."

Search examples:

To retrieve articles published in the Far East:

SS 1 /C?
USER:

ALL Z1.252.474: (PN)
Note in these examples the placement of the colon (:) after the tree number and the inclusion of (PN) as a qualifier.

In summary, the MEDLINE file will contain no abstracts for articles in the August through December updates. The SDILINE file will continue to be a one-month file. Thus, there will be no access to the abstracts for a given month after SDILINE has been retired. NLM does plan to incorporate the abstracts into the MEDLINE file when the new file is regenerated later in 1977 for the 1978 MEDLINE file. Because the use of the other elements has been very limited, there is a likelihood that they may continue to be excluded from the new 1978 files.

An experimental regeneration of the August SDILINE revealed that, with the elimination of the five elements referred to above, enough space will be available to permit approximately 20,000 citations to be input for the months of September through December. This 20,000 figure includes the Special List citations.

We regret any inconvenience the above changes may cause our users. We anticipate that the file size problem will be solved later this year and we will keep you informed of progress made.

CHEMLINE REGENERATION
Sharon Valley, Ph.D., Specialized Information Services, NLM

CHEMLINE has been regenerated and now contains 243,373 compound records. These records include over 550,000 chemical names or synonyms. CHEMLINE now also contains the 33,579 chemicals on the Toxic Substances Control Act (TSCA) Inventory Candidate List (cf. Federal Register Statements Vol. 42, No. 46, March 9, p. 13130-13139, 1977; and Vol. 42, No. 70, April 12, p. 19298-19309, 1977.)

Chemicals on the TSCA list are identified by the locator designation (LO) EPATSCALIST which appears with "PRINT DETAILED ("PRT DL). The RC (R-code) field, which is searchable, and also appears with "PRINT DETAILED for these TSCA chemicals, is an EPA code designation.

A sample of a CHEMLINE record for trinitrotoluene with the new locator code and RC field is shown below.

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

-5-
SS 1 /C?
USER: (LO) EPATSCALIST
PROG: SS (1) PSTG (33579)

SS 2 /C?
USER: TRINITROTOLUENE
PROG: MM (TRINITROTOLUENE) (2)
   1 TRINITROTOLUENE (NF)
   2 TRINITROTOLUENE (SY)
SPECIFY NUMBERS, ALL, OR, NONE-
USER: 2
PROG: SS (2) PSTG (1)

SS 3 /C?
USER: "PRT DL"
PROG:

1
RN - 118-96-7
MF - C7-H5-N3-O6
N1 - TOLUENE, 2,4,6-TRINITRO- (8CI)
N1 - BENZENE, 2-METHYL-1,3,5-TRINITRO- (9CI)
SY - TNT
SY - TOLITE
SY - SYM-TRINITROTOLUENE
SY - TRINITROTOLUENE
SY - SYM-TRINITROTOLUOL
SY - TROTYL
SY - ALPHA-TNT
SY - 2,4,6-TRINITROTOLUENE
SY - TRITOL
SY - 2-METHYL-1,3,5-TRINITROBENZENE
WL - WNR B CNW ENW
NR - 1
RS - 6
RE - C6
LO - TOXLINE
LO - EPATSCALIST
RC - R046-2059

SS 3 /C?
USER: 1 AND 2
PROG: SS (3) PSTG (1)
CHEMLINE can assist organizations having to report to EPA which chemicals they manufacture as proposed in the Federal Register statements, since CHEMLINE has the CAS Registry Number, and the EPA code designation (RC) which must be reported. For those chemicals not on the TSCA Candidate List, CHEMLINE can also be of assistance since it contains the CAS Registry Number, molecular formula, synonyms, and other chemical information.

Further explanation of the Toxic Substances Control Act (TSCA) Inventory Candidate List will be in a future Technical Bulletin. Please contact the Toxicology Information Program, 301/496-1131, in the interim.
AVLINE STATUS REPORT

Harold Schoolman, M.D., Deputy Director for Research and Education, MLV

In January 1977, the technical services processing functions were transferred from NMAC to the Technical Services Division, Library Operations. Since this time, over 5,000 titles from over 600 producers/distributors have been ordered. As of July 1, 1977, AVLINE contains over 3500 records and 32% of the database has been added since January. At the present growth rate, over 2,000 titles will be added this year.

From our experience in the processing of new materials, it was evident that there exist great variations in the nature and scope of the materials collected for AVLINE. On the basis of content and educational design criteria, non-serial AVLINE material has been categorized into two types of categories. A two-track processing stream has been initiated and new titles added to AVLINE will reflect these changes.

AVLINE material has been categorized as follows:

Category A: Materials exhibiting a purposeful choice and integration of media support of content and educational intent produced for an audience distant from the production site and not mere recordings of educational events.

Category B: Materials representing predominantly documentation of scheduled educational events, such as lectures, grand rounds, seminars, continuing education courses, society meetings, etc.

Category A material is processed through the Association of American Medical Colleges (AAMC) review procedure. After technical screening and descriptive cataloging at NLM, each piece is sent to the AAMC for review. The AAMC sends the piece to two members of their panel of 800 experts located in academic health centers throughout the country. Each of the two expert reviewers appraises the piece and one writes a critical review. When this review data arrives back at NLM, the critical review is edited and the review data is added to the cataloging record. Subject headings and call numbers are assigned.

Category B material is processed through an abbreviated procedure. After technical quality screening, catalogers at NLM do both the descriptive and subject cataloging. The citation is then added directly to AVLINE without an abstract or review data. The only element in the Review Data (RD) field is the term "none". 
Searching Implications of Category A and Category B

The categorization of AVLINE material into Category A (educationally designed programs) and Category B (programs representing documentation of educational events) (see AVLINE status report, page 8) allows retrieval to be limited to either of these two types of programs.

Searches can be limited to reviewed Category A items by restricting retrieval to only those citations with the terms "RECOMMENDED" or "HIGHLY RECOMMENDED" in the Review Data (RD) field.

EXAMPLE:
SS 1/C?
USER:
(RD) RECOMMENDED OR HIGHLY RECOMMENDED

SS 2/C?
USER:
CORONARY DISEASES AND 1

Searches can be limited to Category B items by restricting retrieval to only those items with the term "NONE" in the Review Data (RD) field.

EXAMPLE:
SS 1/C?
USER:
CORONARY DISEASES AND NONE (RD)

AVLINE Abstracts

AVLINE now contains three distinct types of abstracts which are tagged to indicate the source. Critical reviews of Category A items are supplied by the AAMC and edited at NLM. On an AVLINE printout, they begin with the following words: (Critical) This program... . Where available and appropriate, abstracts supplied by the producer and edited at NLM are included for selected Category A items. These producer-supplied abstracts begin as follows: (Producer) This program... . Some abstracts are prepared for individual items by an independent organization under contract to NLM. These abstracts carry no tag and begin as follows: This program... .

In addition to appearing on AVLINE print-outs, these tags will be carried in the April-June quarterly issue of Current Catalog.
"Special Lists" are subsets of MEDLINE which contain citations which can be retrieved on-line but do not appear in Index Medicus. Six Special Lists either exist currently or have existed at some time between 1966 and the present; three of them are associated with printed bibliographies:

<table>
<thead>
<tr>
<th>Main Heading</th>
<th>List Indicator</th>
<th>Published Bibliography</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special List Dental</td>
<td>D</td>
<td>Index to Dental Literature</td>
</tr>
<tr>
<td>Special List Nursing</td>
<td>N</td>
<td>International Nursing Index</td>
</tr>
<tr>
<td>Special List Reproduction</td>
<td>R</td>
<td>Population Sciences</td>
</tr>
<tr>
<td>Special List Foreign</td>
<td>F</td>
<td>----</td>
</tr>
<tr>
<td>Special List WHO</td>
<td>W</td>
<td>----</td>
</tr>
<tr>
<td>Special List Health Care</td>
<td>H</td>
<td>----</td>
</tr>
</tbody>
</table>

The heading "Special List WHO" was created in anticipation of a need that never materialized and the heading was therefore never used.

In MEDLARS II, citations from journals indexed only for Special Lists were initially identified in MEDLINE both by a Main Heading (MH) and by a List Indicator (LI). The main heading in each case was not keyed in as part of the citation, but was generated by the computer from the List Indicator. However, with the implementation of new input processing programs in April 1976, the procedure for generating a Main Heading from the List Indicator was eliminated. Therefore all Special List citations input to the current MEDLINE file since April 1976 have a Special List Indicator (LI) but no Main Heading (MH) for the Special List designation. A search strategy which included only "Special List _____" as a search term would miss all these citations.

Searchers wishing to limit their retrievals to a particular special list, or wishing to negate a particular special list should therefore use the List Indicator rather than the heading. For example:

\[
\text{Dental Care and D (LI)}
\]
\[
\text{NOT Dental Care and Special List Dental}
\]

or

\[
\text{Decubitus Ulcer and not N (LI)}
\]
\[
\text{NOT Decubitus Ulcer and not Special List Nursing}
\]

In order to reduce confusion, the Special List Main Headings will be dropped from 1978 MeSH and the computer will then no longer accept a search statement in which one is included.
Following is the 1978 on-line services training schedule. It is, of course subject to change as necessary to meet the demand from the field. Due to the enormous number of requests for training, it has become necessary to implement the following changes in the processing of applications:

a. Trainees from new centers will continue to be assigned to the first available class upon receipt of the application for access to the system.

b. Applications from replacement searchers from organizations who have lost their trained analysts will be processed upon receipt and scheduled on a tentative basis for the next available class. Such training may be rescheduled as necessary to vacate a slot for a new center applicant.

c. Applications from back-up searchers will be date-stamped in order of receipt at NLM. Notification of scheduling for training will be delayed until 6-8 weeks prior to the date of the course. At that time, the class will be officially closed and back-up searchers will be placed in slots not taken by persons in categories (a) and (b) above.

Any questions regarding these procedures may be addressed to Laura Eisenberg, On-line Training Coordinator, NLM or your regional medical library.

<table>
<thead>
<tr>
<th>DATE</th>
<th>TYPE</th>
<th>LOCATION</th>
</tr>
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<tr>
<td>January 16-20, 1978</td>
<td>Advanced</td>
<td>NLM</td>
</tr>
<tr>
<td>January 23-27</td>
<td>Initial</td>
<td>UCLA - RML 11</td>
</tr>
<tr>
<td>February 6-10</td>
<td>Initial</td>
<td>Detroit - RML 5</td>
</tr>
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<td>March 6-10</td>
<td>Advanced</td>
<td>NLM</td>
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<tr>
<td>March 20-24</td>
<td>Initial</td>
<td>NLM</td>
</tr>
<tr>
<td>April 3-7</td>
<td>Initial</td>
<td>Madison - RML 7</td>
</tr>
<tr>
<td>April 17-21</td>
<td>Advanced</td>
<td>NLM</td>
</tr>
<tr>
<td>May 1-5</td>
<td>Advanced</td>
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<td>May 8-12</td>
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<td>UCLA - RML 11</td>
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<td>August 28-September 1</td>
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<td>Initial</td>
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<td>October 9-13</td>
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<td>November 6-10</td>
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</tr>
<tr>
<td>December 4-8</td>
<td>Initial</td>
<td>NLM</td>
</tr>
<tr>
<td>December 11-15</td>
<td>Advanced</td>
<td>UCLA - RML 11</td>
</tr>
<tr>
<td>January 7-11, 1979</td>
<td>Advanced</td>
<td>NLM</td>
</tr>
</tbody>
</table>
NEW SERIALS ANNOUNCEMENT - MAY-JUNE 1977
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. A plus (+) indicates that the title appears in Index Medicus. An asterisk (*) indicates that an issue has actually been received in the Library. PLEASE NOTE: NLM CANNOT FILL LOANS FOR TITLES WITHOUT THE ASTERISK (*). THEY HAVE NOT YET BEEN RECEIVED BY THE LIBRARY. The list is offered as an early announcement. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Betsy Humphreys, 301/496-1276, Technical Services Division, NLM.

ACTA ANTHROPOGENETICA
1, 1977--
Impex India
New Delhi, India

+ACTAS UROLOGICAS ESPANOLAS
1, 1977--
Asociacion Espanola de Urologia
Madrid, Spain

AGED CARE AND COUNSELING
1, 1977--
Haworth Press
New York, New York

BIOBEHAVIORAL REVIEWS
1, 1977--
Ankho Internationalo, Inc.
Phoenix, Arizona

CHILD AND YOUTH SERVICES
1, 1977--
Haworth Press
New York, New York

CIRUGIA ESTETICA
1, 1976--
Sociedad Argentina de Cirugia Estetica
Buenos Aires, Argentina

CLINICAL THERAPEUTICS
1, 1977--
Excerpta Medica
Princeton, New Jersey

COMPARATIVE PHYSIOLOGY AND ECOLOGY
1, 1976--
Impex India
New Delhi, India

CURRENT NephroLOGY
1977--
Pinecliff Medical Publishing
Pacific Palisades, California

CURRENT SURGICAL PRACTICE
1977--
Year Book Medical Publishers
Chicago, Illinois

CURRENT TOPICS IN NUTRITION AND DISEASE
1, 1977--
Alan R. Liss
New York, New York

CYCLIC GMP
1977--
Eden Press
Montreal, Canada

DEATH AND DYING BIBLIOGRAPHY
1, 1977--
Whitston
Troy, New York

DRUG ABUSE AND ALCOHOLISM REVIEW
1, 1977--
Haworth Press
New York, New York

ELECTROMAGNETIC FIELD IN BIOMEDICAL SCIENCE
1977--
Eden Press
Montreal, Canada

EUTHANASIA CONTROVERSY BIBLIOGRAPHY
1, 1977--
Whitston
Troy, New York
FFMALI. PATH NT
1, 1970-
PW Communications
New York, New York

HYPOTHALAMIC RELEASING FACTOR
1977-
Eden Press
Montreal, Canada

INDIAN JOURNAL OF PARASITOLOGY
1, 1977-
Indian Society for Parasitology
Lucknow, India

INDIAN JOURNAL OF PHYSICAL
ANTHROPOLOGY AND HUMAN GENETICS
1, 1976-
Ethnographic and Folk Culture
Society
Lucknow, India

INTELLIGENCE
1, 1977-
Ablex Publishing
Norwood, New Jersey

ISSUES IN COMPREHENSIVE PEDIATRIC
NURSING
1, 1976-
McGraw Hill Book Co
New York, New York

JOURNAL OF OPTOMETRIC VISION
DEVELOPMENT
7N3, 1976-
Cont of Journal of Optometric
Vision Therapy
Worthington, Minnesota

JOURNAL OF SEX EDUCATION AND
THERAPY
1, 1976-
Washington, DC

JOURNAL OF SOCIAL SERVICE RESEARCH
1, 1977-
Haworth Press
New York, New York

MACROPHAGE
1977-
Eden Press
Montreal, Canada

MEDICAL IMAGING
1, 1976
Brentwood
Los Angeles, California

MEDICAL ULTRASONOGRAPHY
1, 1977-
Wiley Medical
Includes unnumbered pre-publication issue August 1976.
Denver, Colorado

NEUROTRANSMITTER AMINO ACIDS
1977-
Eden Press
Montreal, Canada

NEW IMAGE OF MAN IN MEDICINE
1, 1977-
Futura Publishing Co
Mount Kisco, New York

OBESITY AND ITS TREATMENT
1977-
Eden Press
Montreal, Canada

OVERALL REGULATIONS OF THE
CIRCULATION
1977-
Eden Press
Montreal, Canada

PARAMETERS IN HEALTH CARE
1, 1976-
Saint Louis University Medical Center
St Louis, Missouri

PERIPHERAL METABOLISM AND ACTION
OF THYROID HORMONES
1977-
Eden Press
Montreal, Canada

RECOMBINANT DNA RESEARCH
1, 1976-
DHEW, National Institutes of Health
Documents relating to "NIH Guidelines for Research Involving Recombinant DNA Molecules."
Bethesda, Maryland
LIST OF MONOGRAPHS INDEXED
AUGUST 1977

C


J


R

**THE NLM TECHNICAL BULLETIN**

FORMED BY THE UNION OF
THE LIBRARY NETWORK/MEDLARS TECHNICAL BULLETIN AND THE TOXLINE TECHNICAL BULLETIN

AUGUST 1977 No. 100

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
National Institutes of Health
TECHNICAL NOTES

PLEASE QUERY THE ON LINE NEWS FILES DAILY AT NLM FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the headings of each Technical Note will include a reference to the section/page of the NLM On-line Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual II-9). Users should keep in mind that the item may pertain to other sections of the Manual.

JOURNAL CITATION DATA BASES

MEDLINE and SDILINE were updated with August 1977 citations on July 11 at NLM and July 18 at SUNY. The sizes, Index Medicus date ranges and entry dates are given below:

MEDLINE (Jan 75 - Aug 77) 731,066
(Entry dates 741205 to 770630)
SDILINE (August 77) 24,171
(Entry dates 770611 to 770630)

TOXLINE UPDATE - JULY 25, 1977

The TOXLINE file was updated July 25, 1977 with 18,206 records as follows:

<table>
<thead>
<tr>
<th>SUBFILE</th>
<th>COVERAGE</th>
<th>RECORDS ADDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBAC</td>
<td>Vol. 25, Iss. 11-13</td>
<td>5,682</td>
</tr>
<tr>
<td>ETIC*</td>
<td>1950 - Present</td>
<td>8,803</td>
</tr>
<tr>
<td>HEEP</td>
<td>Aug 77</td>
<td>1,100</td>
</tr>
<tr>
<td>IPA</td>
<td>May 77</td>
<td>605</td>
</tr>
<tr>
<td>PESTAB</td>
<td>May-July 77</td>
<td>590</td>
</tr>
<tr>
<td>TOXBIB</td>
<td>Aug 77</td>
<td>1,426</td>
</tr>
</tbody>
</table>

*Note: ETIC is the Environmental Teratology Information Center File, Oak Ridge National Laboratory.

TOXLINE CODES, AVAILABILITY OF MEDLINE AND RELATED FILES

Effective July 21, 1977, all codes which previously had access only to TOXLINE and related files now have access to MEDLINE and related files as well. The price structure remains unchanged. Please notify MEDLARS Management Section if you have problems with the change or if you cannot access all files.

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National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20014
301/496-6193
MEDLINE CODES, AVAILABILITY OF TOXLINE AND RELATED FILES

If your institution has a code which has access only to MEDLINE and related files and use of TOXLINE and related files is desired, send MEDLARS Management Section a signed copy of the new Memorandum of Understanding or reply to the letter on the subject of MEDLINE centers without TOXLINE access, sent to all institutions by Drs. Leiter and Kissman dated May 16, 1977. Contact MEDLARS Management Section if you have any questions.

TYNMET NUMBERS (Manual II-9)

Changes:

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albany, NY</td>
<td>518/463-2203 (Tymnet FX)</td>
</tr>
<tr>
<td>Memphis, TN</td>
<td>518/463-7452 C (Tymnet FX)</td>
</tr>
</tbody>
</table>

New Numbers:

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jacksonville, Fl</td>
<td>904/721-8100 C (Tymnet FX)</td>
</tr>
<tr>
<td>Orlando, FL</td>
<td>305/841-6850 C (Tymnet)</td>
</tr>
<tr>
<td>Iowa City, IA</td>
<td>319/351-4046 C (Tymnet FX)</td>
</tr>
<tr>
<td>Indianapolis, IN</td>
<td>317/257-3470 C (Tymnet)</td>
</tr>
<tr>
<td>Toledo, OH</td>
<td>419/243-3144 C (Tymnet FX)</td>
</tr>
<tr>
<td>Corning, NY</td>
<td>.607/962-5071 C (Tymnet)</td>
</tr>
</tbody>
</table>

ENTERING SYSTEM WITHOUT PROPER LOGIN

If you are ever connected to either NLM or SUNY without receiving the message PLEASE ENTER USER ID OR LOGON followed by the over-printed area for ID you may be on the system in the last part of another user's search. This is caused when the other user did not "STOP properly. If this should happen, issue a "DIAGRAM command to see searching strategy input (to make sure that you are really not re-accessing the system under your ID). If you are not logged on with your user ID, issue a "STOP command and hang up, re-dial, and access the system. This problem is under investigation at NLM.

MEDLARS MANAGEMENT SERVICE DESK

Please remember that a Service Desk is provided in MEDLARS Management Section to answer all questions on logon/logoff procedures, communications, search strategies, off-line prints, offsearches, etc. at NLM and SUNY. Staff members are assigned to the Service Desk from 8:30 a.m. to 5:00 p.m. EDT Monday thru Friday. It is not necessary to ask for individual MMS staff members. The numbers of the Service Desk are (301) 496-6193 or toll-free (800) 638-8480. For urgent computer-related problems encountered in the evening, on holidays, or other times when MEDLARS Management Section is not staffed, you may call the NLM Computer Room (301) 496-2734. If the staff in the Computer Room cannot immediately assist you they will take a message and a description of the problem and forward it to MEDLARS Management Section the following day.
CANCER INFORMATION MEETING

If you are going to the ASIS annual meeting in Chicago, September 26-30, 1977, you might want to attend the ICRDB Users Forum. The Forum will be held on Tuesday, September 27 at 1:00 p.m. For the location, please check the official program. The International Cancer Research Data Bank (ICRDB) Program of the National Cancer Institute has developed a variety of cancer information products, including the CANCERLINE data base. Members of the ICRDB staff will be present during the forum to discuss the various products and to answer any questions.

1978 ON-LINE SERVICES TRAINING SCHEDULE

Please change the July 3-7 initial class at NLM to July 10-14.

EXTENSION OF NON-PRIME TIME, 8 - 9 P.M. HOURS AND GREATER USE OF SUNY

Joseph Leiter, Ph.D., Associate Director for Library Operations

During the months of July and August NLM conducted two experiments. One was to increase the number of non-prime hours by making 11:30 to 1:00 non-prime instead of prime time. The reason for this was to attempt to level out use and to increase usage during 11:30 a.m. to 1:00 p.m. by decreasing use during the peak hours of 2:00 to 3:00 p.m. and early morning hours. The chart below which represents data from July 1 through August 15 shows that this was a successful experiment. Therefore, NLM is pleased to announce that it will continue to make 11:30 to 1:00 p.m. non-prime until November 30 at which time another evaluation will have been completed.

AVERAGE ON-LINE USERS

JULY 1, 1977 THRU AUGUST 15, 1977
Also, during July and August, NLM added an extra hour to the end of the day. NLM was up until 9 o'clock on Tuesday and Friday while SUNY stayed up until 9 p.m. on Monday, Wednesday and Thursday. During the month of July a total of 149 hours was used between the time 8:00 to 9:00 p.m. and an average of 7½ users were on the system during this time. An average of 20 different users used the system during this time period. Again, NLM feels that the extension of the hours proved to be useful to our on-line users; therefore, we will continue the 8:00 to 9:00 p.m. time until November for further evaluation.

We are pleased with the cooperation and interest shown by our on-line user community. NLM will continue to monitor use patterns and we will explore other approaches which may make our service of greater benefit to all. We have been much less successful in obtaining voluntary adherence to our request for greater use of the SUNY computer. Although the response time on SUNY is sometimes a little slower than at NLM, it is not important so long as the number of users is not greater than 15-20. Our current experience indicates that the SUNY data bases are under-utilized by at least one-third. Increased use of SUNY for MEDLINE files will provide more reserve capacity at NLM and provide greater insurance against a decay in NLM computer performance during the next three years until new hardware resources can be procured to cope with the increased workloads.

All network users are requested to log into SUNY first for MEDLINE searches and switch to NLM if other files are needed. A precautionary measure against overloading SUNY would be to ask for "USERS" prior to formulating searches. If the number is greater than 18, then a switch to NLM would be acceptable.

If these voluntary measures on your part do not provide an adequate increase in SUNY file utilization, software controls which are generally less flexible will have to be implemented. These controls could impact your service needs more than the voluntary measures.

We will keep you informed on this matter the next three months and provide progress reports on your voluntary efforts.
In January 1977, the National Library of Medicine did a study of the computer resources needed to provide offsearches. 1,279 searches done over a two-week period were included in the study. More than 97% of the 1,279 searches were processed by the computer in less than three minutes. 95.5% were processed in less than one minute. The average search in this sample took 29 seconds to process. Despite the small number of searches that ran for more than three minutes, the five longest searches of the 1,279 in the sample used 21.6% of the total processing time. The 33 searches which ran in excess of three minutes used 49.4% of the processing time. Although the analysis identified a program "bug" that contributed in part to longer processing, which has been corrected, the fact that a small number of searches could use an inordinate proportion of the systems resources was disturbing in the face of our need to maintain our performance with our current computer for at least three more years.
It was therefore decided that a processing limit should be placed on off-searches for the following reasons:

1) Most searches take much less time than the limit but the few searches which run over the limit take a very large portion of the total processing time, as described above. On occasion these long searches have threatened our ability to mail off-line prints the next day. In addition, there have been occasions when we have not been able to bring the service up on time because of the computer time required to process these long offsearches.

2) Since the average cost of operation of our system is over $300 per hour, a search of five minutes, for example, represents an actual cost of $25 in computer search time alone. This is in sharp contrast to the charge of only one dollar per data base.

If your searches fall into the 97%, you will of course not be concerned with this matter. Only a handful of our users have had this problem. We believe that an awareness of it will further reduce the number of searches that will be aborted.

The article "Judicious Use of Stringsearch in On-Line and Off-Line Searching" by David Kenton which was published in the January 1977 issue of the Technical Bulletin closed with the statement "NLM is investigating the imposition of an automatic limit on the duration of individual searches." The implementation of an offsearch limit was also discussed at the NLM On-Line Users Meeting in Seattle, Washington during the MLA Meeting. Additionally the limitations were discussed at the RML On-Line Coordinator's meeting held April 1977 at NLM.

Two limitations were implemented experimentally July 6 on one of the two copies of the ELHILL programs which we run at NLM. (Users are routed automatically to the copy of the program which has the fewest on-line users at the time they log on; users cannot pre-select a certain program copy.)

The limitations which have been implemented so far are:

a) Three-minute processing time per file group.

b) 3,000 citation stringsearch limit.

Files are generally batched for offsearch processing efficiency. Thus, MEDLINE and BACK72 are run as a file group, as are BACK69 and BACK66.

If an offsearch is input to be run against multiple files such as MEDLINE, BACK72, BACK69, etc., the search is processed against each file until the three-minute limit is reached for the file group. In other words, the three-minute limit is a cumulative one for all files in the group and is not a per file limit. If the search exceeds the search time or stringsearch limit before it is processed against all requested files in the file group, it is purged completely and the user does not receive any part of the search in that task. Some searches cannot be processed even on a single file, for example, searches which include one of the following explosions: EXP C4,
EXP $D_1$, or EXP $D_2$. EXP $*C_4$, $*D_1$, and $*D_2$, however, will work if other large explosions are not used in the same search. Because of these factors, it is essential that the analyst be aware of large explosions and limit offsearches to one file at a time. While this might create an additional burden for the analyst, it also makes the analyst more aware of the limits of the system. As a comparison with on-line searches, a general rule of thumb is that any search which will result in $90(\%)$ time overflows will exceed the three-minute time limit for a MEDLINE, BACK72, BACK69, or BACK66 search run under OFFSEARCH.

I would like to share our experiences to date with you. During the period July 6 through July 21, nineteen offsearches were purged because they exceeded the offsearch three-minute time limit. During this time, 2,189 OFFSEARCHES were processed and 19 rejected for time overflow. This represents less than $0.9\%$ rejection. Some of the searches could have been processed successfully against one file, but were "purged" when they were attempted to be run against subsequent files. The most common single cause for exceeding the three-minute offsearch limit to date is exploding C4. Seven of the nineteen were purged because C4 was exploded as part of the search. Five of the nineteen were purged because the search contained too many explosions "ANDed" with highly-posted MeSH terms or text words. Four of the nineteen exceeded the limit when MEDLARS.PSYCHASPECTS was "ANDed" with large search terms such as English, Human, and/or check tags with large postings. One search failed because of redundant repetition of explosions, e.g. SS-1: EXP ABC and $X$; SS-2 EXP ABC and $Y$. Two searches failed because of excessive stringsearching which exceeded the three-minute time limit. Generally, it takes one minute to stringsearch one term against 1200 citations.

The use of explosions such as C4 are comparatively rare. In order to avoid time overflows in OFFSEARCH, searchers will need to take care to use smaller portions of C4 such as $*C_4$ or other logical divisions. Applying subheadings to EXP C4, either with the "Subheadings Apply command or the slash (e.g., EXP C4/DT) will also significantly reduce the processing time. Searches containing the stored hedge MEDLARS.PSYCHASPECTS (SN) will be successful only if the hedge is not "ANDed" with highly posted terms/check tags or text words. Often, users combine this particular hedge with a disease which only occurs in humans and then the check tag Human is also added. This is not necessary, since most of the concepts contained in the hedge as well as the disease terms already restricts the search to humans for the most part. Additionally, the stored hedge MEDLARS.IMMUNO (SN) will not execute in more than one file per offsearch without exceeding the limit, and if used, care must be taken not to combine this hedge with highly posted terms/text words, etc. A further caution: when using a stored hedge or exploding a term, the stored hedge name or the explosion of a term should only be input once in the search; the user should refer back to the search statement containing the aforementioned when needed later in the search strategy. Other search hints will be provided as data becomes available on searches that exceed the offsearch processing limit.

Staff from MEDLARS Management have called all users who have had searches purged to notify them and to try to assist in re-formulating the search. Analysts should save all offsearch formulations and the Task Number assigned at the time they input the offsearch so that they will have the necessary
information to reformulate and re-input the search if required.

In certain cases a search may exceed the offsearch processing limitation, but the analyst may have an urgent requirement that the search be run. In this case, the search request and formulation together with the reasons for requiring the explosions, etc. should be sent to MEDLARS Management Section. NLM cannot guarantee that requested searches will actually be processed but each search will be decided on an individual basis and if justified, NLM will process the search and mail the results to the user.

The second limitation is one on the number of citations that can be string-searched per offsearch task number. The present limitation is 3,000 citations. None of the nineteen searches exceeded this stringsearch limitation because the time limit was exceeded first. If searches are purged because this stringsearch limit is exceeded, MMS will also contact the analyst.

Stored searches executed through offsearch against SDILINE or via automatic SDI processing are subject to the same limitations described above. It is very unlikely that any of these will abort because of the small size of the file.

NLM plans to implement fully (i.e., on both copies of the program) the above stated limitations in September 1977. We are aware of the potential impact these limitations have on future searching and NLM will attempt to document completely as possible steps analysts should consider in order to formulate searches so as to avoid exceeding the limitations.

AVLINE UPDATE
Virginia White, Technical Services Division, NLM

AVLINE CONTENT

More than 3500 citations were in the AVLINE data base at the beginning of August, of which 85% represent Category A programs (educationally designed) and 15% represent Category B programs (documentation of educational events). Of the Category A programs, 10% are self instructional and 90% are suitable for use as lecture support. 75% of Category A programs are suitable for medical audiences, 50% for nursing audiences, 25% for dental audiences, 50% for allied health personnel and 10% for Ph.D.'s. 80% are recommended for undergraduate education, 75% for graduate education and 65% for continuing education.

Using NLM classification numbers to categorize the AVLINE data base by subject, 81% of the over 3500 items concern clinical medicine, 11% the preclinical sciences, 3% nursing, 2% history of medicine, 1% hospitals and 2% social sciences and psychology.

AVLINE RETROSPECTIVE CATALOG

The National Library of Medicine AVLINE catalog, covering 2400 titles added to AVLINE in 1975 and 1976, is currently available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The price is $5.00 (domestic) and $6.25 (foreign). The GPO stock number is S/N 017-052-00183-3. This catalog contains only a subject section, listing bibliographic and review data. Abstracts are not included.
Recently, you may have noticed that CHEMLINE now contains a new data element RC (R-Code) and a new Locator Code (LO) "EPATSCALIST" and wondered what they meant. These additions were made in order to incorporate in CHEMLINE a list of chemicals, called the TOSCA Inventory Candidate List, which was created by the Environmental Protection Agency (EPA) to fulfill some of the mandates of the Toxic Substances Control Act (TOSCA) of 1976.

Before going into the CHEMLINE changes and their significance for the on-line user, it might be useful to tell those of you who have as yet not been in-volved with TOSCA, a little about this new law.

For many years, the Federal Government has exerted steadily widening controls over the manufacture and use of chemical products. This is being done through the passage and application of a series of laws that have been estab-
lished along use categories. Thus, food additives, drugs, and cosmetics are regulated under the Food, Drug and Cosmetic Act while pesticides are con-
trolled through the Federal Insecticide, Fungicide and Rodenticide Act. These laws were established primarily to protect users from hazards associated with exposure to chemical substances. In 1973, Congress passed the Occupational Safety and Health Act which protects workers against job-connected hazards including those stemming from exposure to chemicals in the work place.

However, it was recognized that these laws still left a majority of chemicals that could be produced, imported, distributed, processed and disposed of without regard to any damaging effects they might exert on human health or on the environment. For the last five years, the Congress and Executive Branch of the Government have labored to create a new piece of legislation that would close these loopholes and bring about some control over all chemicals without, at the same time strangling the chemical industry of this country. The Toxic Substances Control Act of 1976 is the result of these efforts. It is a highly complex piece of legislation that "...grants EPA broad powers to regulate the manufacture, use and disposal of toxic chemicals. Industry will be required to report new chemicals and pre-test certain ones before they can be introduced into manufacturing use or commercial products. 'Significant new use' of some existing chemicals can also trigger reporting and testing requirements." Full implementation of TOSCA will depend on the rules and regulations EPA will develop under the authority granted to it by this Act. TOSCA differs in one significant way from the other major laws controlling chemicals; it explicitly allows health and safety data collected under its mandate to be disseminated to the public.

In one of its key provisions (Section 8b), TOSCA gives EPA the mandate to assemble an "Inventory" of all chemicals produced in or imported into the United States. The first step in building this Inventory was to collect information on all chemicals manufactured or imported from July 1, 1974, through 1977. All chemicals that are not on this list and are manufactured or imported thereafter will be subject to pre-market notification require-
ments under the "new chemicals" provision of TOSCA. It is, therefore, advantageous for chemical producers to have their existing products appear on the initial Inventory.

To start the process and make reporting on existing chemicals easier, EPA assembled through a contract with Chemical Abstracts Service (CAS), a TOSCA Inventory Candidate List with some 33,000 compounds used in industrial or commercial products. Compounds on this Candidate List are "tagged" with CAS Registry Numbers (numbers that identify chemicals uniquely in CAS' Computerized Registry System). The list also contains standardized nomenclature, synonyms and trade-names. The Candidate List is available in three arrangements; viz., by CAS Registry Numbers, names, and molecular formulae, and in various output formats such as printed volumes, microfiche, and computer tape. A description of the Candidate List and its use was published by EPA as proposed regulations in two Federal Register statements.

In these proposed regulations, EPA asked that manufacturers and reporters do one of two things: (1) identify "their" products on the Candidate List by listing the CAS Registry Numbers and a "print code" (which is explained in the Federal Register statement) on a "Form A"; or (2) notify EPA of any compounds produced (or imported) during the stated period that do not appear on the Candidate List, by listing the CAS Registry Numbers and/or names or structures on a "Form B." At the end of a three-month reporting period (the exact dates of which have as yet to be established by regulation), EPA will cull from the Candidate List all compounds which were not "claimed" by any organization and add other compounds reported by manufacturers as not having appeared on the Candidate List. The upshot of this process will be a new Inventory that will replace the Candidate List.

Integration of the TOSCA Inventory Candidate List into CHEMLINE seemed to be a step that would prove useful to the chemical industry, as well as to the Government. The compounds on the Candidate List are identified in CHEMLINE with the searchable locator code (LO) EPATSCALIST; these records also carry the "R-Code"—one of the three print codes on the Candidate List—in a searchable and printable RC field.

Certain "ill-defined" products (e.g., chlorosulfurized sperm oil; herring oil, sulfonated) were segregated by EPA in the so-called UVCB ("chemical substances of unknown and variable composition, complex reaction products, and biological materials") section of the Candidate List. CAS gave the materials in this section Registry Numbers and certain additional descriptive terms such as "sperm oil" or "sulfonic acids." CHEMLINE will carry these descriptive terms in a searchable field when NLM receives this information from CAS.

How can these new capabilities be used in reporting under TOSCA? A manufacturer can identify his products in CHEMLINE using normal searching techniques through nomenclature, name fragments, synonyms, trade-names, ring information, molecular formula fragments, etc. Once identified, using "PRINT DETAILED, he can see whether the CHEMLINE record carries the EPATSCALIST locator code and, if so, he can use the CAS Registry Number and the listed R-Code for his submission to EPA. If he does not see this locator code on the record, he would conclude that this product is not on
the Candidate List; he can then use the CAS Registry Number and a name from
the CHEMLINE record to notify EPA of this omission. CHEMLINE contains
some 210,000 compounds more than the Candidate List. Therefore, the proba-
bility of finding compounds that had been left off the Candidate List in the
remainder of CHEMLINE is fairly high. For EPA, it will be important to re-
ceive reports from manufacturers carrying accurate CAS Registry Numbers and/or
good nomenclature so that these compounds can be easily identified and
integrated into the revised Inventory.

It is planned that CHEMLINE will continue to carry the TOSCA Inventory.
This will be done by removing the EPATSCALIST locator code from compounds
that were not claimed by manufacturers and by adding this locator code to
the CHEMLINE records of compounds that have been reported by manufacturers
to EPA during this initial Inventory building period. After the completion
of this period, compounds reported to EPA under the "new compound" provisions
of TOSCA (Section 5) will be added to the Inventory. It is expected that
information on these new compounds will flow from EPA to NLM for inclusion in
CHEMLINE so that this file will continue to provide an on-line retrieval
service on the TOSCA Inventory for the chemical community.

Note: Federal Register, Vol. 42, No. 148, page 39182-39193, Tuesday
August 2, 1977 is being called to readers attention since it
was just published.

1. TOSCA is the acronym commonly used for the Toxic Substances Control Act
of 1976. Any resemblance to Puccini's tragic opera by the same name
is purely coincidental.

2. A summary of these changes in CHEMLINE was provided in The NLM Technical

3. Copies of the Toxic Substances Control Act (Public Law 94-469, 94th
Congress, October 11, 1976) can be obtained from: Senate Documents,
Room S-325, Capitol Building, Washington, D.C. 20510.


5. Copies of the Toxic Substances Control Act Candidate List of Chemical
Substances can be obtained in accordance with instructions provided by
EPA in the Federal Register, 42, No. 82, 21639-21640, April 28, 1977.


8. The exact method to be used for this notification will be described in
the final EPA regulation governing TOSCA Inventory reporting.
Starting September 1, 1977, NLM is adding a new on-line data retrieval file, called the Registry of Toxic Effects of Chemical Substances (RTECS), to its family of on-line services. It will be available at the standard NLM on-line user charge rates. RTECS, formerly the Toxic Substance List, is an annual compilation prepared by the National Institute for Occupational Safety and Health (NIOSH) as mandated by the Occupational Safety and Health Act of 1970 (PL 91-596). The printed version, which is for sale by the Superintendent of Documents, U. S. Government Printing Office, offers a detailed description of the purpose and content of RTECS. The 1976 edition (GPO order number 017-033-00166-9, price $13.50/copy) is the most recent issue available; the 1977 edition is scheduled for issuance for later this year.

RTECS contains toxicity data for approximately 21,000 substances known by approximately 60,000 synonyms. The source of the toxicity data is currently presented in the RTECS CODEN System with notation of volume, page and year. The RTECS CODENS System is part of the hard copy publication. This special system will be included in a forthcoming section of the NLM On-Line Services Reference Manual (along with more descriptions of RTECS). The RTECS part of the manual will be mailed to all centers within the next few weeks. This supplement to the Manual will assist the user in accessing and interpreting the data in the RTECS system.

RTECS also contains some listings of toxicological effects, presented in an abbreviated format. In addition, it contains threshold limit values, recommended standards in air, aquatic toxicity, and the like. RTECS is also searchable using free text. The RTECS Unit Record Description contains 18 elements.

NLM obtained the machine-readable version from NIOSH for conversion to an on-line data retrieval source. Although the Library is making the RTECS file available on-line, NIOSH maintains responsibility for the file contents. To this end, then, questions on RTECS file content should be directed to: The Editor, Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, 4676 Columbia Parkway, Cincinnati, OH 45226. Help on special questions may be obtained by telephoning NIOSH at 513/684-8317.

The 1976 edition of RTECS is the file available on-line at NLM starting in September and will be the version on-line until at least through October, 1977. The 1977 edition (sixth revision) will be mounted for on-line use as soon as possible after it is received from NIOSH.
SCORE: A PROGRESS REPORT
Patti Corbett, Southeastern Regional Medical Library Program
Emory University, Atlanta, Georgia

The December, 1976 issue of the Library Network/MEDLARS Technical Bulletin contained an article describing the Standing Committee for On-Line Retrieval Education (SCORE). This article discussed the Committee's goals and objectives, its composition and its proposed activities, as they were delineated at the Committee's initial meeting on November 4, 1976. SCORE met again on June 10, 1977 in Seattle, Washington in conjunction with the annual meeting of the Medical Library Association. There has been one change in Committee personnel: Patti Corbett, Staff Librarian, Southeastern Regional Medical Library program has been designated to replace Marcia Ford who resigned from her duties as SCORE member due to her current leave of absence from the Countway Library.

One of the activities chosen by the SCORE Committee at its initial meeting was the generation of a user profile to assess the educational interests and needs of searchers in the field. An NLM Data Base Users Educational Needs Profile has been designed and is being distributed on a trial basis to ten (10) MEDLINE Centers in each Region. Following the compilation of data from these questionnaires, a representative sample of NLM data base searchers will be identified for future mailings of the profile.

Members of SCORE are preparing recommendations regarding future On-Line Services Updates. These recommendations will address the following issues:

b. Specific types of information to be included in technical updates.
c. Relationship of the update instructor to the Regional Medical Library.
d. Facilitation of lines of communication between update instructors and the National Library of Medicine.
e. Methodology for training of update instructors.

It is hoped that these recommendations will facilitate the development of a successful, standardized updating program.

Work is continuing on the development of a prototype continuing education course on neoplasms for analysts. A proposed course outline was discussed at the SCORE meeting in Seattle and a draft package of the CE Course on Neoplasms is to be completed by January 1, 1978. It is hoped that a test version of the course will be presented at the 1978 MLA Annual Meeting in Chicago.

Laura Eisenberg, On-Line Training Coordinator, NLM, described a CTS satellite experiment to SCORE members at their meeting in Seattle. This experiment, with the support of the Lister Hill Center, will be an interactive update session between NLM and Palo Alto, California. Other locations may participate on a receive-only basis. The CTS satellite experiment is tentatively scheduled for November 2, 1977 from 12:15 - 3:30 p.m. E.S.T.

Future issues of the NLM Technical Bulletin will contain further reports of SCORE activities. Questions and comments regarding SCORE should be addressed to Ms. Eisenberg.
An estimated 300-400 users attended the NLM On-Line Users meeting on Tuesday, June 14 in Seattle. Several general announcements were made prior to opening up the meeting for questions. These included:

- Non-Prime time between 11:30 - 1:00 EDT at NLM & SUNY during July and August 1977 to encourage use during this time period

- On-Line Services have been integrated to include one-code access to all files and one Technical Bulletin to be called The NLM Technical Bulletin

- Possible limitations on data base size and processing time

1. Q. Can update sessions or specialized on-line meetings be announced in advance?

   A. The On-Line Users meeting is not an approved MLA meeting but NLM makes announcements of special meetings of interest to its system users as soon as information is available.

2. Q. Can hours of service be expanded at the end of the day for West Coast users? Can one more hour be added on an experimental basis?

   A. Usage in the past did not warrant extending the hours, thus, hours were reduced. NLM and SUNY will offer the system until 9:00 p.m. during July and August on a trial basis to see if use warrants continuing the expanded hours.

3. Q. When will stored addresses be provided?

   A. NLM anticipates a stored address capability by January 1978.

4. Q. When will the Hospital Literature data base be up?

   A. No final decision has been made but it is expected for 1978.

5. Q. Being dropped during a search has been a problem and when a user tries to log back into the system after being dropped they are told that their USERID is in use.

   A. MEDLARS Management Section can delete the code upon request or the user can wait 15 minutes after which the system automatically drops the code. The user is not charged for these 15 minutes unless the user logs back into the system before the 15 minutes expires--then the user is charged for the entire period.
6. Q. What causes gibberish?

A. A terminal has a modem which causes the electrical signals produced by typing to be changed into signals so that they can be carried over ordinary voice telephone lines to the computer where they are switched back into electronic signals. Noise, rattles, etc. (other than the voice signals being transmitted) getting into the phone lines may produce characters which cannot be understood by the computer and may print out at the terminal. Switching to a different phone instrument may help. Sometimes, entering "STOP on MEDLINE and re-dialing and re-accessing the system will help to get a clear phone line. Electrical storms and bad weather conditions cause intermittent problems with noise.

7. Q. When will 1200 Baud service be available?

A. Experimental 1200 Baud service (120 cps) is available at NLM. The Phones file contains the 120 cps lines currently available for direct, TYMNET, and TELENET 120 cps numbers. Only certain modems are compatible: VADIC 3405, BELL 202C or 202S or 212A.

8. Q. Are lists of recommended terminals available?

A. NLM does not provide any lists of recommended terminals.

9. Q. Can anything be done if an OFFSEARCH is lost when user is dropped by the system, after the search is almost completed?

A. Unfortunately, unless the system replies to the user with OFFSEARCH COMPLETED, the input is lost and cannot be retrieved.

10. Q. Obtaining Trees from NTIS is difficult.

A. NLM is trying to improve service.

11. Q. When will the revised On-Line Services Reference Manual be ready?

A. NLM is currently working on a completely revised manual which is expected to be available in the fall of 1977.

12. Q. Will new print options be considered such as AU, TI, SO, AB, RP for automatic SDI's?

A. NLM is currently evaluating use of Reprint Source (RP) as well as various other elements and print options. MMS welcomes written suggestions and requests.

13. Q. What are the procedures for participating in the Automatic SDI program and what are the printing limitations?

A. A center must have at least 5 searches stored at NLM with the search name beginning with an "S" and a number for SDILINE processing or a "T" and a number for TOXLINE processing. Then the center should send MMS the form indicating desire for Automatic SDI processing. Information on the SDI program and the necessary form is contained in the
June 1976 Technical Bulletin. The print options presently offered are as follows:

SDILINE:
S001 searchname through S200 searchname = AU, TI, SO
S201 searchname through S400 searchname = AU, TI, SO, LA, MH, CI, RP
S401 searchname through S600 searchname = AU, TI, SO, TT, LA, MH, AB, RP

TOXLINE:
T001 searchname through T200 searchname = SI, AU, TI, SO
T201 searchname through T400 searchname = SI, AU, TI, SO, AB
T401 searchname through T600 searchname = Entire unit record

No special characters such as periods, commas, quotation marks, etc. can be used in stored search names. No Boolean operators (AND, OR, NOT) should be used. Up to 500 citations will be printed for each stored search executed using automatic SDI procedures.

14. Q. Are suggestions for The NLM Technical Bulletin welcome?
A. Yes, definitely

15. Q. Can Language (LA) be included in "PRINT AR (AU,TI,SO,AB) for MEDLINE?"
A. "PRINT AR is a 'shorthand' way of asking the system to print the author, title, source, and abstract of citations only. Language or any other element can be included by typing the command and including the element or elements also desired: example: "PRINT AR, INCLUDE LA"

16. Q. How much of the MEDLINE data base includes abstracts? From which journals are abstracts not taken for inclusion in MEDLINE?
A. 42-45% of the MEDLINE data base includes abstracts. Pergamon Press and Academic Press do not authorize NLM to include abstracts from their journals in MEDLINE.

17. Q. Do CANCERLIT abstract sizes cause a problem?
A. No, since the number of citations in the file is relatively small, large abstracts do not currently cause a problem.

18. Q. Is a CANCERPROJ (SSIE) vocabulary update list available?
A. Yes, a list of changes is in the April 1977 Technical Bulletin. A new list of cumulated SSIE vocabulary terms is available from Donna J. Wicker, Data Base Coordinator, National Cancer Institute, ICRDB Program, 9000 Rockville Pike, Bethesda, Maryland 20014.

19. Q. Will the connect charges be increased in the near future?
A. No increase in connect hour charges are anticipated at this time. NLM, however, is reviewing off-line print charges in relationship to costs of mailing, processing, etc.
20. Q. Can the subsets of CANCERLIT be searched such as the CANCER THERAPY ABSTRACTS?

A. There are no longer subsets such as Cancer Therapy or Carcinogenesis in CANCERLIT because we now screen primary journals. Do not attempt to separate files by stringsearching the Secondary Source (SI) field.

21. Q. Most of the monographs included in MEDLINE are by foreign publishers--Why?

A. Most Congress proceedings are published by foreign publishers. Since most monographs selected for inclusion in MEDLINE are congresses, symposia, society meetings and conferences, these monographs included are usually published in foreign countries.

22. Q. What is the selection criteria for inclusion of monographs?

A. The Cataloging Section at NLM identifies congresses, symposia, society meetings, and conferences for review by two or more physicians on the NLM staff. The latter make the final selection, applying criteria approved by NLM's literature selection consultants. The criteria include scope, currency, breadth of interest, language, and availability. No abstract collections are indexed and presentations containing original data are given priority over didactic and state-of-the-art reports.

23. Q. Could call numbers be listed in the list of monographs printed in Index Medicus and the Technical Bulletin but not in MEDLINE?

A. NLM call numbers in MEDLINE are needed for interlibrary loan activity.

24. Q. Could the call number field in MEDLINE have NLM designation added to the call number?

A. NLM does not plan to add "NLM" to the call number at this time. Users should be educated to recognize these as NLM call numbers.

25. Q. Could the series note for monographs be added to MEDLINE?

A. This matter will be reviewed at NLM.

26. Q. Will there be one- or two-day CATLINE and Name Authority File classes?

A. Yes, in the near future, possibly as an MLA CE course.

27. Q. Can some considerations be given to a subheading "GENERAL"?

A. Suggestions for subheadings and vocabulary should be sent in writing to Dr. Clifford Bachrach, Head, MeSH Section, NLM, who will review suggestions.

28. Q. What are the possibilities of adding "LEGAL MEDICINE" as a MeSH heading?

A. LEGAL MEDICINE is currently a see reference to FORENSIC MEDICINE. Also see number 27 above.
29. Q. Will there be a yearly Permuted MeSH?
   A. Yes.

30. Q. What is the status of POPLINE?
   A. A data base on population has been proposed and a final decision is expected in the near future.

31. Q. What was the result of the Literature Search suggestions?
   A. The first month only 2 suggestions were received. As of June 22, twenty-one suggestions for literature searches were received from personnel within NLM and thirty-one suggestions have been received from on-line users. Ten literature searches are now being worked on at NLM and NLM hopes to produce 50 by the end of the calendar year.

32. Q. Could a neoplasm hedge be developed?
   A. Category C4 contains all neoplasms. It is unlikely that a stored neoplasm hedge will be developed in addition to Category C4.

33. Q. What is the status of MEDLEARN, TOXLEARN, CHEMLEARN?
   A. Track A of MEDLEARN is up and available now for all on-line users at the same rates as the other data bases. TOXLEARN and CHEMLEARN are being worked on now.

34. Q. When will Track B of MEDLEARN be available?
   A. After TOXLEARN is developed and put up for use.

35. Q. Will MeSH be expanded to include terms from Hospital Literature Index?
   A. Some terms will be incorporated but not all. The American Hospital Association is working to adapt HLI indexing to conform to an expanded MeSH.

36. Q. Will cross references be included from the Hospital Literature Index to MeSH terms?
   A. Possibly. The final format of the Hospital Literature Index has not been decided.
The following substantive serial titles were received or ordered by the Serial Records Section. A plus (+) indicates that the title appears in Index Medicus. An asterisk (*) indicates that an issue has actually been received in the Library. PLEASE NOTE: NLM CANNOT FILL LOANS FOR TITLES WITHOUT THE ASTERISK (*). THEY HAVE NOT YET BEEN RECEIVED BY THE LIBRARY. The list is offered as an early announcement. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Betsy Humphreys, 301/496-1276, Technical Services Division, NLM.

<table>
<thead>
<tr>
<th>Title</th>
<th>Volume</th>
<th>Publisher/Source</th>
<th>Location</th>
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<tbody>
<tr>
<td>ADVANCES IN BEHAVIORAL PHARMACOLOGY</td>
<td>1, 1977</td>
<td>Academic Press</td>
<td>New York, New York</td>
</tr>
<tr>
<td>ADVANCES IN CARDIOVASCULAR PHYSICS</td>
<td>1, 1977</td>
<td>Karger</td>
<td>Basel, Switzerland</td>
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<tr>
<td>AMERICAN JOURNAL OF DANCE THERAPY</td>
<td>1, 1977</td>
<td>American Dance Therapy Association</td>
<td>Columbia, Maryland</td>
</tr>
<tr>
<td>ANNUAL REVIEW OF NEUROSCIENCE</td>
<td>1, 1978</td>
<td>Annual Reviews</td>
<td>Palo Alto, California</td>
</tr>
<tr>
<td>AUXILIAIRE</td>
<td>50N2, 1977</td>
<td>Corporation Professionnelle des Infirmieres et Infirmiers des Auxiliaires du Quebec</td>
<td>Montreal, Canada</td>
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<tr>
<td>BIOLOGICAL MEMOIRS</td>
<td>1, 1976</td>
<td>Impex India</td>
<td>New Delhi, India</td>
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<td>BIOMEDICAL COMPUTING SERIES</td>
<td>1, 1977</td>
<td>Research Studies Press</td>
<td>Forest Grove, Oregon</td>
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<td>BIOSYNTHETIC PRODUCTS FOR CANCER CHEMOTHERAPY</td>
<td>1, 1977</td>
<td>Plenum</td>
<td>New York, New York</td>
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<td>BREAST CANCER, ADVANCES IN RESEARCH AND THERAPY</td>
<td>1, 1977</td>
<td>Plenum</td>
<td>New York, New York</td>
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<tr>
<td>COGNITIVE SCIENCE</td>
<td>1, 1977</td>
<td>Ablex Pub Co</td>
<td>Norwood</td>
</tr>
<tr>
<td>CRIMINAL JUSTICE ABSTRACTS</td>
<td>9, 1977</td>
<td>National Council on Crime and Delinquency</td>
<td>Hackensack, New Jersey</td>
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<tr>
<td>CURRENT CONCEPTS IN DENTAL HYGIENE</td>
<td>1, 1977</td>
<td>C V Mosby Co</td>
<td>St Louis, Missouri</td>
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<tr>
<td>DRUG FATE AND METABOLISM: METHODS AND TECHNIQUES</td>
<td>1, 1977</td>
<td>Marcel Dekker</td>
<td>New York, New York</td>
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</table>
ELECTRO-OPTICS SERIES
1, 1977--
Marcel Dekker
New York, New York

FOOD NUTRITION HEALTH NEWSLETTER
1, 1977--
Food and Nutrition Press
Westport, Connecticut

INDIAN PSYCHOLOGY
1, 1977--
Andhra University. Department of Psychology and Parapsychology
Waltair, India

INTERNATIONAL CONGRESS ON CELL BIOLOGY
1, 1976--
Rockefeller University Press
New York, New York

INTERNATIONAL REVIEW OF NATURAL FAMILY PLANNING
1, 1977--
Human Life Center. St. John's Univ.
Collegeville, Minnesota

JOURNAL OF HOLISTIC HEALTH
1, 1976--
The Journal
San Diego, California

JOURNAL OF LAW AND HUMAN BEHAVIOR
1, 1977--
Plenum
New York, New York

MEDICAL ANTHROPOLOGY
1977--
Redgrave Publishing Company
Pleasantville, New York

MICROSURGERY
1, 1977--
Europa Press
Supersedes Micro-Chirurgie
Ghent, Belgium

MINERAL AND ELECTROLYTE METABOLISM
1, 1977--
Karger
Basel, Switzerland

NATO CONFERENCE SERIES 3: HUMAN FACTORS
1, 1976--
Plenum Press
New York, New York

OFFENDER REHABILITATION
1, 1976--
Haworth Press
New York, New York

OPTICS LETTERS
1, 1977--
American Institute of Physics
New York, New York

PERSPECTIVES IN LAW AND PSYCHOLOGY
1, 1977--
Plenum
New York, New York

PRACTICAL SPECTROSCOPY SERIES
1, 1976--
Marcel Dekker
New York, New York

PROCEEDINGS OF THE CLEVELAND SYMPOSIUM ON MACROMOLECULES
1, 1977--
Elsevier
Amsterdam, Netherlands

RECENT ADVANCES IN ENDOCRINOLOGY AND METABOLISM
1, 1977--
Churchill Livingstone
Edinburgh, Scotland

RECENT ADVANCES IN INTENSIVE THERAPY
1, 1977--
Churchill Livingstone
Edinburgh, Scotland

RED BOOK OF OPHTHALMOLOGY
1, 1977--
Professional Press
Cont Red Book of Eye, Ear, Nose and Throat Specialists.
Chicago, Illinois
SELF-IN-PROCESS SERIES
1, 1977--
Human Sciences Press
New York, New York

STANDARD MEDICAL ALMANAC
1, 1977--
Marquis
Chicago, Illinois

STUDIES IN HISTORY OF BIOLOGY
1, 1977--
Johns Hopkins University Press
Baltimore, Maryland

STUDIES IN HISTORY OF MEDICINE
1, 1977--
Institute of History of Medicine and Medical Research
New Delhi, India

SURGICAL TECHNIQUES ILLUSTRATED
1, 1976--
Little Brown and Co
Boston, Massachusetts

1. Bacteria — ultrastructure — congresses
2. Cell Wall — congresses
3. L Forms — congresses
4. Models, Biological — congresses
5. Protoplasts — congresses
6. Spheroplasts — congresses

I. Roux, Jacques, ed. II. Institut national de la santé et de la recherche medicale III. Société française d'électroradiologie medicale IV. Title. V. Title: Spheroplastes, protoplastes, et forms L des bactéries

ISBN 2-85598-155-7
Ø4NLM: QW 51 S753 1976
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TECHNICAL NOTES 232 and 233
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TECHNICAL NOTES

PLEASE QUERY THE ON LINE NEWS FILES DAILY AT NLM FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the headings of each Technical Note will include a reference to the section/page of the NLM On-line Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual II-9). Users should keep in mind that the item may pertain to other sections of the Manual.

JOURNAL CITATION DATA BASES

MEDLINE and SDILINE were updated with 19,988 citations on August 8, 1977. The sizes, Index Medicus date ranges and entry dates are given below:

MEDLINE (Jan 75 - Sept 77) 751,013
(Entry dates 741205 to 770729)
SDILINE (Sept 77) 19,988
(Entry dates 770718 to 770729)

ADDITIONS AND CHANGES TO NLM PUBLICATIONS

The following are additions or changes to the National Library of Medicine News, NLM Publications, Vol. XXXII, No. 4, Supplement 2 issued in April 1977.

<table>
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<th>NLM News</th>
<th>NLM Publications</th>
<th>Page Number</th>
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<tr>
<td>6</td>
<td>ADD: CATALOG OF NLM 16TH CENTURY BOOKS For information write to: History of Medicine Division, National Library of Medicine, 8600 Rockville Pike, Bethesda, Maryland 20014.</td>
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<tr>
<td>7</td>
<td>INTERNATIONAL BIBLIOGRAPHY OF THE HISTORY OF LEGAL MEDICINE: (Stock number should read: S/N 017-052-00148-5.)</td>
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Editor: Grace H. McCarn
Assistant Editors: Yvonne B. Scott, Sharon L. Valley, Ph.D.
Technical Notes Editor: Carolyn B. Tilley
Direct inquiries to:
MEDLARS Management Section
National Library of Medicine
8600 Rockville Pike
Bethesda, Maryland 20014
301/496-6193

-2-
ADD: NATIONAL LIBRARY OF MEDICINE AVLINE CATALOG\(^1\) (1975-76) $5.00 ($6.25 foreign).  
S/N 017-052-00183-3.  
(Announced in May 77 NLM Technical Bulletin)

NATIONAL MEDICAL AUDIOVISUAL CENTER CATALOG (1977)\(^1\):  
ADD: $4.25 ($5.35 foreign).  
S/N 017-052-00181-7.  
(Announced in May 77 NLM Technical Bulletin)

ADD AN EXPERIMENTAL DISTRIBUTED DATABASE SYSTEM  
PB 264-882  
$4.00 ($3.00 microfiche)

DELETE: CUMULATED INDEX MEDICUS: Vol. 14 (1973)

ANNUAL BIBLIOGRAPHY OF ORTHOPAEDIC SURGERY:  
Delete the following: "Ad Hoc Committee on Orthopaedic Information Services, Medical Services Division, National Research Council."

\(^1\)The NLM AVLINE Catalog lists items cataloged from November 1975 through December 1976 for the AVLINE data base. Updates, covering items cataloged in 1977, appear quarterly in the NLM Current Catalog. The National Medical Audiovisual Center Catalog is a subset of the NLM AVLINE Catalog listing only 16mm motion pictures and video-cassettes available on short-term loan from NMAC.

1978 TOOLS

The following 1978 publications are expected to be available at NTIS on October 15:

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<tr>
<td>PB-270-894/AS</td>
<td>MEDICAL SUBJECT HEADINGS - ANNOTATED ALPHABETICAL LIST 1978</td>
<td>$19.00 Domestic</td>
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<td>PB-255-932</td>
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<tr>
<td>PB-271-306</td>
<td>MEDLARS INDEXING MANUAL, PART II (supplements MEDLARS Indexing Manual, Part I (PB-254-270, $6.00)</td>
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HOURS, NON-PRIME

Non-prime hours have been extended to include 11:30 a.m. to 1:00 p.m. (ET) Monday through Friday at NLM and SUNY through the month of November on an experimental basis.

ON-LINE HOURS, NLM and SUNY

The on-line hours of service at NLM and SUNY have been extended on an experimental basis until 9:00 p.m. through November 1977.

MeSH HEADING, CARCINOGENESIS

Effective immediately, CARCINOGENESIS will no longer be used in indexing. The term is being withdrawn and citations already indexed under it will be remapped. In the interests of consistency, NLM will resume the usual indexing of the carcinogenesis or etiology or mechanism of formation of cancer under NEOPLASMS in general or under the specific neoplasm terms in MeSH. Both the 1978 Annotated MeSH and the Indexing Manual reflect this change.

CHEMLINE AT SUNY

CHEMLINE is expected to become available on the SUNY computer on October 1, 1977.

TELENET ACCESS NUMBERS

Number Change: From: To:
Louisville, Kentucky 502/587-1844 502/459-7010

TELENET NETWORK ACCESS

Users are reminded that they may use TELENET to access either NLM or SUNY as well as TYMNET. Telephone access numbers for various cities can be accessed
in the PHONES file on the NLM system in the same way the NEWS is accessed. For an instructional booklet, How to Use TELENET - Information for Terminal Users, please write or call MEDLARS Management Section.

TYMNET ACCESS NUMBERS

New Numbers:
- Anchorage, Alaska 907/276-4401 C
- Santa Rosa, California 707/526-2180 C
- West Palm Beach, Florida 305/622-2871 C FX
- Fort Wayne, Indiana 219/424-5162 C FX

Number Change:
- From: 518/463-2203 C FX
- To: 518/463-3111 C FX
- From: 401/831-2634 C FX
- To: 401/351-2920 C FX

Deleted Number:
- Corning, New York 607/962-2406

SEARCHING MEDLINE FOR INTERLIBRARY LOAN INFORMATION—MONOGRAPHS

Users often ask to borrow whole symposia, congresses, society papers, etc. now included in MEDLINE. These monographs are non-circulating at most libraries. Users should identify the part or parts of the monograph in which they are interested and the loaning library can generally photocopy the request part(s). A note is sent from NLM with returned interlibrary loan when a user requests a volume which cannot be loaned in whole. Example:

This title has been indexed in Index Medicus and is on MEDLINE. Table of contents for this title can be obtained from MEDLINE by inputting the call number exactly (including spacing) as it is given in the original citation. Example: (MEDLINE) USER: WT 104 N977 1976

Inputting the call number, as shown above will get you the same number of postings as there were articles in the indexed title, and you can then print the table of contents.

A user receiving the above message with a returned interlibrary loan may search MEDLINE using the call number as instructed, either with or without the call number qualifier (CA) to see the individual parts of the volume: Example:

SS 1 /C?
USER:
WE 344 C559 1975

PROG:
SS (1) PSTG (37)
USE OF BREAK KEY OR INTERRUPT PRINTING IN ELHILL

NLM does not recommend use of the break key or use of an interrupt key for the purpose of discontinuing printing in the ELHILL data bases. It is permissible to interrupt printing of the NEWS or PHONES files (which are accessed via a LOGON entry) if the user has seen the material desired. However, the use of the break key in MEDLEARN (also accessed via LOGON) is discouraged. Many times while in ELHILL the break is recognized and the printing is discontinued, the response to the user being a USER: cue (with the implied question being asked, CONTINUE PRINTING? YES OR NO?). If the user has hit the break key and has received this USER: cue he should answer by typing NO and then he will be prompted with the next search statement. Just as frequently, the break is recognized by the systems as a complete disconnect and the computer will drop the user entirely, often causing the ID to become "hung" in the system for 15 minutes. The user is not charged for these 15 minutes unless the user logs back into the system before the 15 minutes expires--then the user is charged for the entire period.

ADDITION TO 1978 NLM ON-LINE SERVICES TRAINING SCHEDULE

An Advanced On-Line Services Training Class has been added to the 1978 schedule. The course will be held March 13 - 17, 1978 at the University of California in Los Angeles. It is, of course, open to applicants from all Regions.
1978 MeSH CHANGES

Four attachments are included with this issue of the Bulletin. They are:

- New Descriptors in 1978 MeSH
- Deleted Medical Subject Headings - 1978
- New Subheadings - 1978
- Tree Number Changes - 1978

These lists are being distributed as aids in updating stored searches, especially those processed at NLM as Automatic SDI's. We expect to make all stored searches executable online for a short period of time after the December 77 MEDLINE update for testing any changes necessitated by 1978 MESH. All changes to automatic SDI's processed against SDILINE must be completed by December 9, 1977 for processing against the January 1978 SDILINE. Changes to searches automatically processed against TOXLINE must be completed by January 1, 1978. Any search requiring changes must be purged from the file and reentered no sooner than the following day.

The list of new descriptors contains only those terms which are completely new to the system. It does not include the 103 terms (majors and minors) which are the result of a one-for-one change (e.g., singular/plural, inverted/not inverted, hyphenated/not hyphenated, one word/two words, synonyms); these "new" terms are among the "replaced by" terms in the list of deleted terms. Also, in the list of deleted terms (majors and minors only), those terms which have been retained as entry terms are annotated as such (ET). These terms need not be deleted from stored searches since mapping to the "replaced by" terms will occur automatically. However, since a list of entry terms deleted for 1978 is not available, any "no postings" message during the testing phase should be checked as a possible deleted entry term. The list of tree number changes contains all headings for which there has been a change. The supplement to the list of tree number changes has the 49 terms where there was a main heading change and also a tree number change.

TOXLINE UPDATE - AUGUST 30, 1977

The TOXLINE file was updated August 30, 1977, with 9,258 records as follows:

<table>
<thead>
<tr>
<th>SUBFILE</th>
<th>COVERAGE</th>
<th>RECORDS ADDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBAC</td>
<td>Vol. 26, Iss. 1-3</td>
<td>4,811</td>
</tr>
<tr>
<td>HEEP</td>
<td>Sept 1977</td>
<td>1,095</td>
</tr>
<tr>
<td>TOXBIB</td>
<td>Sept 1977</td>
<td>1,262</td>
</tr>
<tr>
<td>EMIC</td>
<td>Aug 1977</td>
<td>2,090</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9,258</td>
</tr>
</tbody>
</table>

The update tag is 0877 (ST). This brings the total number of documents in TOXLINE to 465,392.
SEARCH HINTS - CENTRAL CONCEPT INDICATOR

If a searcher inputs the statement

*Rifampin/AD

the system assumes that s/he is looking for:

Rifampin/*AD

This is also true if the subheading has been applied (i.e. "SUBS APPLY AD) and then

*Rifampin

is entered.

This search retrieves 54 citations in MEDLINE.

The above search does not retrieve articles indexed

*Rifampin/AD (articles which would appear under the heading Rifampin in Index Medicus as general articles about Rifampin and that discuss Administration & Dosage)

Rifampin/AD/*PD (articles which would appear under a subdivision of Rifampin other than Administration & Dosage in Index Medicus but which also discuss administration and/or dosage)

In order to retrieve all articles that have as a central concept Rifampin and which discuss Administration and Dosage, the searcher would have to search on

*Rifampin and Rifampin/AD.

This search retrieves 123 articles in MEDLINE.

INCREASE IN OFFLINE PRINT CHARGES AT NLM AND SUNY

Melvin S. Day, Deputy Director, NLM

Effective January 1, 1978 the charge for offline prints will increase from ten cents ($0.10) per page to twelve cents ($0.12) per page. This increase is the first time that page charges for offline prints have increased since charges were imposed in 1973. During this period of time, there have been extensive increases in such basic costs as paper, postage, and manpower.

The Library wishes to take this opportunity to urge you to review carefully the need for large offline prints and to limit printing of citations in full only when the need for extensive output is necessary. The Library believes that this could result in a decrease in your overall cost for prints if more careful review were made. Such review would also contribute significantly toward keeping within reasonable limits the large printing workloads at NLM. During the past two years there has been an enormous increase in the number of offline prints being requested.

The Library will continue to review its offline print charges but does not envisage any further changes for the calender year 1978.
MEDLINE FILE PLANS FOR 1978
Joseph Leiter, Ph.D., Associate Director for Library Operations, NLM

In November or early December, the 1978 MEDLINE file will replace the 1977 file for on-line service. NLM has determined that there is a restriction on the total file from which it can provide service as described in my article in the July 1977 issue of the Technical Bulletin. After a review of all the alternatives NLM has decided on specific actions to limit the size of the on-line file to avoid a recurrence of this problem next year. Thus, for at least the coming year, we will restric the size of the MEDLINE file to fit the space available through the following actions:

1. Delete the four elements from the file: reprint source, place of publication, record source, and priority. These elements will be retained in SDILINE.

2. Continue to drop abstracts of over 200 words except for long articles (over 10 pages) with informative abstracts. Abstracts previously deleted from the August-December 1977 MEDLINE file will be added to the 1978 MEDLINE file.

3. Drop all articles, including reviews, published in 1975 or earlier. This would make the inclusion criterion compatible with TOXLINE and insure that the on-line file contains only current material.

4. The material in the present file with publication dates of 1975 or earlier will become BACK75. This file will contain the abstracts for the 1975 material but will also be missing the four elements enumerated above.

The net result of these actions will be a smaller on-line file of about 380,000 citations growing to 630,000 citations by the end of next year. However, the on-line file will be able to contain all of the most recent publications without any danger of file overflow. Elements such as reprint source will be available in SDILINE and will be available in printouts of SDI searches. This has been the principal place where this information has been requested. We have no information whether IBM can modify this file limit nor any implementation date.
With the creation of the new Special List HEALTH CARE and the addition to MEDLARS of many journals and monographs in the field of health care and its delivery, many new related terms were added to MeSH for 1978. It is natural that the economic consideration be a significant feature of this growing American endeavor. Although terms most directly pertinent are to be found in MeSH in Category N (Health Care), specifically in N3 (HEALTH CARE-ECONOMICS, etc.), there are many economic-related headings in other categories and in other trees of Category N.

The purpose of this paper is to present an array of money or economic headings in MeSH. As with all hedges, the indexer and searcher are encouraged to pick and choose the specific area of their immediate need and to bypass those areas not applicable.

Note that these terms are from the 1978 TREE STRUCTURES and many will not be available until January 1978.

1. Nearly all economic and monetary aspects of health care such as costs, expenditures, financing, grants, insurance, taxes, etc., can be found under the heading ECONOMICS at N3.219.

2. These terms are monetary concepts not found under ECONOMICS at N3.219:

   - FEE SCHEDULES
   - COLLECTIVE BARGAINING
   - SOCIOECONOMIC FACTORS (contd)
   - MEDICAL INDIGENCY
   - POVERTY
   - EMPLOYMENT
   - UNEMPLOYMENT
   - INCOME
   - PENSIONS
   - SALARIES AND FRINGE BENEFITS

3. The following peripheral headings can be considered as having an economic component in varying degrees:

   - OCCUPATIONS
   - CAREER MOBILITY
   - SOCIAL CLASS
   - SOCIAL MOBILITY
   - SOCIAL CONDITIONS
   - DISABILITY EVALUATION
   - WORK CAPACITY EVALUATION
   - TRANSIENTS AND MIGRANTS
   - WILLS
   - OWNERSHIP
   - FRAUD
   - PUBLIC HOUSING
   - THEFT

*Editor's Note: This hedge is a manual one and is not stored for computer retrieval.
4. For economic aspects specific to health services consider the following headings in addition to those mentioned before. The emphasis here is on the cost, financing and expenditures connected with these terms.

HEALTH AND WELFARE PLANNING (N2.349 to be exploded)

GROUP PRACTICE
  GROUP PRACTICE, DENTAL
PARTNERSHIP PRACTICE
  PARTNERSHIP PRACTICE, DENTAL

OFFICE MANAGEMENT
  PRACTICE MANAGEMENT, DENTAL
  PRACTICE MANAGEMENT, MEDICAL

STATE DENTISTRY
STATE MEDICINE

5. The following terms are possible sources of money and financing:

ACADEMIES AND INSTITUTES
FOUNDATIONS
CHARITIES
CONSUMER ORGANIZATIONS
GOVERNMENT AGENCIES

LABOR UNIONS
SOCIAL WELFARE
CHILD WELFARE
INFANT WELFARE
MATERNAL WELFARE

6. For economic aspects specific to health facilities, consider these terms:

BED OCCUPANCY
HEALTH FACILITIES, PROPRIETARY
HOSPITALS, PROPRIETARY
HEALTH FACILITY, MERGER
HEALTH SERVICES, MISUSE
HOSPITAL SHARED SERVICES

HOSPITAL CLOSURE
MATERIALS MANAGEMENT, HOSPITAL
INVENTORIES, HOSPITAL
PURCHASING, HOSPITAL
REGIONAL HEALTH PLANNING
(N3.349.650 to be exploded)

As of 1978 a very useful subheading, /economics (EC) is available for use with diseases in Categories C and F3, with appropriate technic headings in Category E, and many appropriate terms in Categories N2, N3 and N4.
Two new types of Category A items have been added to the AVLINE data base: NO REVIEW and PENDING. Records for Category A items currently input into AVLINE carry one of the designations RECOMMENDED, NO REVIEW, or PENDING in the Review Data (RD) field. Records for Category B items continue to carry the designation NONE in the Review Data (RD) field. Since mid-1976, the category HIGHLY RECOMMENDED has not been used, all recommended items being designated simply RECOMMENDED. Items reviewed before mid-1976 which were rated HIGHLY RECOMMENDED still carry that designation in the AVLINE file.

All AVLINE records are searchable by MeSH subject headings. Retrieval from a subject search may include all types of records unless retrieval is limited by use of the Review Data (RD) field.

Searches can be limited to Category A items restricting retrieval to only those citations with the terms "RECOMMENDED", "HIGHLY RECOMMENDED", "NO REVIEW", or "PENDING" in the Review Data (RD) field.

EXAMPLE:
SS 1 /C?
USER: (RD) RECOMMENDED or HIGHLY RECOMMENDED or NO REVIEW or PENDING

SS 2 /C?
USER: CORONARY DISEASES and 1

Searches can be limited to reviewed, recommended Category A items or to Category B items by use of the strategies outlined in the AVLINE Update on page 9 of the July 1977 issue of the NLM Technical Bulletin.

Alternately, once a record has been retrieved, its status can be ascertained by simply printing the Review Data (RD) field.

As of September 12, AVLINE contains 2802 RECOMMENDED items, 339 HIGHLY RECOMMENDED items, 413 items PENDING review, and 581 Category B items.
We have reproduced here for the use of searchers TECHNICAL NOTE 232: Selection of Articles in Selectively Indexed Genetics Journals and TECHNICAL NOTE 233: CEREBRAL ISCHEMIA, TRANSIENT and cerebral ischemia. They are the latest two TECHNICAL NOTES to be distributed at the orientation session given annually at the start of the new indexing year.

Technical Note 232 concerns the scope of genetics with special reference to the selection of articles for indexing from journals marked "selective" in the List of Journals Indexed in Index Medicus. Of the 43 titles listed there under the rubric GENETICS, 13 are selectively indexed. TN 232 shows the criteria for selecting or rejecting articles in these journals marked "selective". Naturally every article is taken in titles not so marked, whether the article is in scope or out of scope by the criteria reproduced here.

The criteria were approved by Dr. Clifford A. Bachrach, Head, Medical Subject Headings Section. They follow closely the criteria set for the Library in the recently published Scope and Coverage Manual of the National Library of Medicine by Paula Meise, Technical Services Division. In this manual, human, medical and microbial genetics are core material, while general, behavioral and population genetics are related (the last class of material is peripheral).

Technical Note 233 advises indexers and searchers of the differentiation between "cerebral ischemia" and "transient cerebral ischemia" and the correct indexing of both. The data base has shown a variety of terms and coordinations which has done a disservice to searchers and researchers. The data base, however, will have been made uniform by the time you read this reminder.

The last Technical Note was 231 and all technical notes, including it, are available through NTIS (Technical Notes--MEDLARS Indexing Instructions, 1975 PB-241-734 $5.50). Since the two reproduced here are the only additional ones, it will not be necessary for searchers to seek elsewhere. Please direct any questions you have about them to MEDLARS Management Section.
The following substantive serial titles were received or ordered by the Serial Records Section. A plus (+) indicates that the title appears in Index Medicus. An asterisk (*) indicates that an issue has actually been received in the Library. PLEASE NOTE: NLM CANNOT FILL LOANS FOR TITLES WITHOUT THE ASTERISK (*). THEY HAVE NOT YET BEEN RECEIVED BY THE LIBRARY. The list is offered as an early announcement. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Betsy Humphreys, 301/496-1276, Technical Services Division, NLM.

ABORTION TRENDS
1, 1975--
Lakewood, California

AGING TOMORROW
1, 1976--
New York, New York

+AJR. AMERICAN JOURNAL OF ROENTGENOLOGY
128, 1977--
Charles C. Thomas
Continues American Journal of Roentgenology
Springfield, Illinois

AMERICAN JOURNAL OF MEDICAL GENETICS
1, 1977/78--
Alan R Liss
New York, New York

ARCHIVES OF ANDROLOGY
1, 1978--
Elsevier-North-Holland Biomedical Press
Amsterdam, Holland

BIOLOGY
1, 1976--
Marcel Dekker
New York, New York

*BIOMETRICAL JOURNAL
19, 1977--
Akademie-Verlag
Continues Biometrische Zeitschrift
Berlin, Germany

BLINDNESS, VISUAL IMPAIRMENT, DEAF-BLINDNESS
1, 1976--
Nevil Interagency Referral Service
Philadelphia, Pennsylvania

CONFERENCE REPORTS. MEDICINE
1, 1977--
Applied Science Publishers
London, England

CONTEMPORARY THERAPY
1, 1974--
American Society of Contemporary Medicine and Surgery
Harvard, Massachusetts

CURRENT PROBLEMS IN OBSTETRICS AND GYNECOLOGY
1977--
Year Book Medical Publishers
Chicago, Illinois

HELP AGE INTERNATIONAL
1, 1977--
Help Age International
London, England

HOSPITAL PURCHASING MANAGEMENT
1, 1976--
IMS America. Medical Business Services Division
Ambler, Pennsylvania

HUMAN REPRODUCTION MEDICINE
1977--
Elsevier-North-Holland Biomedical Press
Amsterdam, Holland
<table>
<thead>
<tr>
<th>Publication Title</th>
<th>Volume, Year</th>
<th>Publisher</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal of Mental Imagery</td>
<td>1, 1977</td>
<td>Brandon House</td>
<td>New York, New York</td>
</tr>
<tr>
<td>Medical Self-Care: Access to Medical Tools</td>
<td>1, 1977</td>
<td>Inverness, California</td>
<td></td>
</tr>
<tr>
<td>Modern Medicine of Ireland</td>
<td>1, 1976</td>
<td>Modern Medicine of Great Britain</td>
<td>London, England</td>
</tr>
<tr>
<td>Monographs in Fetal Physiology</td>
<td>1, 1976</td>
<td>Elsevier/North-Holland Inc</td>
<td>New York, New York</td>
</tr>
<tr>
<td>*New Zealand Nursing Forum</td>
<td>5, 1977</td>
<td>Nurses Society of New Zealand</td>
<td>Auckland, New Zealand</td>
</tr>
<tr>
<td>Paramedics International</td>
<td>1, 1976</td>
<td>La Crescenta, California</td>
<td></td>
</tr>
<tr>
<td>Prosthetics and Orthotics International</td>
<td>1, 1977</td>
<td>International Society for Prosthetics and Orthotics</td>
<td>Hellerup, Denmark</td>
</tr>
<tr>
<td>Rat News Letter</td>
<td>1, 1977</td>
<td>Medical Research Council, Laboratory Animals Centre</td>
<td>Carshalton, England</td>
</tr>
<tr>
<td>Sexual Law Reporter</td>
<td>1, 1976</td>
<td>Los Angeles, California</td>
<td></td>
</tr>
</tbody>
</table>
THE CONTENTS OF THIS PUBLICATION ARE NOT COPYRIGHTED AND MAY BE FREELY REPRODUCED

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<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECHNICAL NOTES</td>
<td>2</td>
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<tr>
<td>SERLINE</td>
<td>8</td>
</tr>
<tr>
<td>DRUGS OF ABUSE</td>
<td>15</td>
</tr>
<tr>
<td>DRUG METABOLISM: A HEDGE</td>
<td>19</td>
</tr>
<tr>
<td>NEW SERIALS ANNOUNCEMENT - SEP 77</td>
<td>24</td>
</tr>
<tr>
<td>LIST OF MONOGRAPHS INDEXED - NOV 77</td>
<td>27</td>
</tr>
</tbody>
</table>
TECHNICAL NOTES

PLEASE QUERY THE ONLINE NEWS FILES DAILY AT NLM FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the headings of each Technical Note will include a reference to the section/page of the NLM Online Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual II-5). Users should keep in mind that the item may pertain to other sections of the Manual.

JOURNAL CITATION DATABASES

MEDLINE and SDILINE were updated with 19,854 citations on September 12, 1977. The sizes, Index Medicus date ranges and entry dates are given below:

<table>
<thead>
<tr>
<th>Database</th>
<th>Size</th>
<th>Index Medicus Date Range</th>
<th>Entry Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDLINE</td>
<td>770,850</td>
<td>(Jan 75 - Oct 77)</td>
<td>(741205 to 770902)</td>
</tr>
<tr>
<td>SDILINE</td>
<td>19,854</td>
<td>(Oct 77)</td>
<td>(770812 to 770902)</td>
</tr>
</tbody>
</table>

TOXLINE UPDATE - SEPTEMBER 26, 1977

The TOXLINE file was updated September 26, 1977, with 6,275 records as follows:

<table>
<thead>
<tr>
<th>Subfile</th>
<th>Coverage</th>
<th>Records Added</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBAC</td>
<td>Vol. 26, Iss. 4-5</td>
<td>3,463</td>
</tr>
<tr>
<td>HEEP</td>
<td>Oct 1977</td>
<td>1,110</td>
</tr>
<tr>
<td>TOXBIB</td>
<td>Oct 1977</td>
<td>1,230</td>
</tr>
<tr>
<td>IPA</td>
<td>Jun-Jul 1977</td>
<td>922</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>6,725</strong></td>
</tr>
</tbody>
</table>

The update tag is 0977(ST). This brings the total number of documents in TOXLINE to 472,117.

YEAR-END PROCESSING

During November and December, NLM will undergo its annual year-end processing. All citation files will be maintained to reflect the 1978 vocabulary and all 1975 citations will be retired from MEDLINE to BACK75. Other changes have already been discussed in Dr. Leiter's article "MEDLINE File Plans for 1978" in the September 1977 issue of the NLM Technical Bulletin.
Centers which have stored searches must review all searches and make appropriate changes to reflect the 1978 vocabulary. Changes can only be made by deleting the stored search and re-entering the corrected version no sooner than the following day. Lists of new mainheadings, new subheadings, deleted mainheadings and tree number changes were included in the September 1977 issue of the NLM Technical Bulletin as aids in this updating. Also included in that September issue is the NTIS order information for the Annotated MeSH and Tree Structures. This updating must be completed by December 16th when the Automatic SDI's will be processed against the January 77 SDILINE. Between November 21 and December 16, stored searches will be executable on-line. NLM recommends that terms, not tree numbers, be used when exploding in stored searches to reduce the impact of changed tree numbers each year. If the term appears in more than one tree, the default is to all trees.

Following is the update schedule NLM expects to follow:

<table>
<thead>
<tr>
<th>DATE</th>
<th>PLACE</th>
<th>CHANGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov 7</td>
<td>NLM/SUNY</td>
<td>-MEDLINE (Jan 75-Dec 77) with '77 terms</td>
</tr>
<tr>
<td></td>
<td>NLM/SUNY</td>
<td>-SDILINE (Dec 77) with '77 terms</td>
</tr>
<tr>
<td>Nov 21</td>
<td>NLM</td>
<td>-all stored searches executable on-line</td>
</tr>
<tr>
<td></td>
<td>NLM</td>
<td>-SDILINE (Dec 77) with '78 terms for testing stored searches</td>
</tr>
<tr>
<td>Dec 19</td>
<td>NLM/SUNY</td>
<td>-MEDLINE (Jan 76-Jan 78)</td>
</tr>
<tr>
<td></td>
<td>NLM/SUNY</td>
<td>-SDILINE (Jan 78)</td>
</tr>
<tr>
<td></td>
<td>NLM/SUNY</td>
<td>-BACK75 (Jan 75 - Dec 75) all with '78 terms</td>
</tr>
<tr>
<td></td>
<td>NLM/SUNY</td>
<td>-BACK72 (Jan 72 - Dec 74) '78 terms</td>
</tr>
<tr>
<td></td>
<td>NLM/SUNY</td>
<td>-BACK69 (Jan 69 - Dec 71) '78 terms</td>
</tr>
<tr>
<td></td>
<td>NLM/SUNY</td>
<td>-BACK66 (Jan 66 - Dec 68) '78 terms</td>
</tr>
<tr>
<td></td>
<td>NLM</td>
<td>-stored searches no longer executable on-line</td>
</tr>
</tbody>
</table>

1978 SCHEDULE FOR MEDLINE AND SDILINE UPDATES AT NLM AND SUNY

The following is the projected schedule of SDILINE and MEDLINE updates at NLM and SUNY for January 1978 through January 1979. All dates fall on Monday.

<table>
<thead>
<tr>
<th>INDEX MEDICUS Month</th>
<th>Date SDILINE and MEDLINE Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 78</td>
<td>Dec 19, 1977</td>
</tr>
<tr>
<td>Feb</td>
<td>Jan 9, 1978</td>
</tr>
<tr>
<td>Mar</td>
<td>Feb 6</td>
</tr>
<tr>
<td>Apr</td>
<td>Mar 6</td>
</tr>
<tr>
<td>May</td>
<td>Apr 10</td>
</tr>
<tr>
<td>Jun</td>
<td>May 8</td>
</tr>
<tr>
<td>Jul</td>
<td>Jun 5</td>
</tr>
<tr>
<td>Aug</td>
<td>Jul 10</td>
</tr>
<tr>
<td>Sep</td>
<td>Aug 7</td>
</tr>
<tr>
<td>Oct</td>
<td>Sep 11</td>
</tr>
<tr>
<td>Nov</td>
<td>Oct 9</td>
</tr>
<tr>
<td>Dec</td>
<td>Nov 6</td>
</tr>
<tr>
<td>Jan 79</td>
<td>Dec 11</td>
</tr>
</tbody>
</table>
USER ID NOT KNOWN TO ELHILL

The system has been changed to allow the user to reenter their ELHILL ID code if it has been rejected. Example:

/LOGIN

PLEASE ENTER USERID OR LOGON

********** (if the user enters the ID incorrectly, he will receive the following message)

BYE BYE...

YOUR USER CODE IS NOT KNOWN TO ELHILL 3. PLEASE CONTACT SYSTEM PERSONNEL FOR ASSISTANCE.

At this point the user should log in again:

/LOGIN

and the system will re-prompt for the entering of the ELHILL ID code

PLEASE ENTER USERID OR LOGON

**********

CANCERLINE (Manual XV)

The ICRDB Program (International Cancer Research Data Bank) of the National Cancer Institute prefers that the term CANCERLINE be used to refer to all three of its data bases offered by the National Library of Medicine (CANCERLIT, CANCERPROJ, and CLINPROT). Users may enter "FILE CANCERLIT or continue to specify as in the past, "FILE CANCER or "FILE CANCERLINE.

URETHRAL NEOPLASMS--CORRECTION OF TREE NUMBER

One of the 1978 tree numbers for URETHRAL NEOPLASMS is incorrect in the 1978 Annotated Alphabetic MeSH and MeSH Tree Structures and the "Tree Number Changes" list distributed as part of the September 1977 issue of the NLM Technical Bulletin. The incorrect tree number, C4.588.845.947.945, has been corrected to C4.588.945.947.945 in the MeSH computer file so that URETHRAL NEOPLASMS will be searched when either UROLOGIC NEOPLASMS or UROGENITAL NEOPLASMS is exploded. (The tree number in both parts of the black and white MeSH will be the correct one.)

LOGICAL OPERATORS AND KEYWORDS USED AS SEARCH TERMS (Manual III-15)

In searching MeSH headings with imbedded ANDs and ORs and for other keywords which the computer is unable to search on previously except for when they are disguised by using the variable character symbol (#), users may now use the exclamation mark (!) to disguise the terms. For example, BONE AND BONES
must be entered BONE AND BONES and keywords such as GREATER, LESS, THAN, etc. must also be disguised. Entering an exclamation mark (!) before the AND or OR or GREATER, etc., has the same effect as disguising the terms with the variable character symbol.

For example:

SS 1 /C?
USER:

BONE !AND BONES

PROG:
SS (1) PSTG (4167)

The use of the exclamation mark is more efficient in computer terms than the use of the variable character symbol since using the variable character symbol is a form of truncation and the computer has to scan the Index File for a range of terms that could match up with the term entered. In addition, use of the variable character symbol does not guarantee that the search term will be unique, since the # stands for any character or space, not just the character you are disguising. Other symbols which may be used in addition to or in place of the exclamation mark include: ?, : @. In other situations (variant spelling, etc) the variable character symbol should be used as before. (Search hint from the BLAISE Newsletter No. 3, Sept. 1977. BLAISE is the British system which operates MEDLINE.)

OFF-LINE PRINTS AND OFFSEARCHES AT NLM—NUMBERING OF CITATIONS
(Manual III-33, XVI)

Effective October 4, 1977, all off-line print and offsearch printouts will have the citations numbered. This is especially beneficial in offsearch printouts as previously it was impossible to separate citations by search statements. If an OFFSEARCH contained more than one search statement to be printed, each search statement will begin with number 1, thus making it possible to distinguish between each statement. Off-line prints will continue to include the message END OF SEARCH STATEMENT when multiple search statements are included in a off-line print command, however, renumbering will not take place with each group of citations retrieved for each search statement.

SEARCH HINTS - SUBHEADINGS (Manual III-37)

If a user enters subheadings to be applied to a term with a "SUBS APPLY command:

SS 1 /C?
USER:

"SUBS APPLY DT, TH, DI
and then enters the term:

SS 1 /C?
USER:

(term)

PROG:
SS (1) PSTG (XXXX)

and then remembers that s/he also wishes to include another subheading, entering:

SS 2 /C?
USER:

(term)/ET

PROG:
SS (2) PSTG (XX)

The system, in effect, cancels the "SUBS APPLY and will not include the latest subheading entered with those subheadings already applied, but instead only gives postings for the term and the latest subheading (term/ET).

To include another subheading to subheadings already applied to a term with a "SUBS APPLY command, s/he must then enter, for example:

SS 3 /C?
USER:

1 OR 2

PROG:
SS (3) PSTG (XXXX)

TYMNET NUMBERS (Manual II-9)

Changes:

<table>
<thead>
<tr>
<th></th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indianapolis, IN</td>
<td>317/257-3470 C</td>
<td>317/257-3461 C</td>
</tr>
</tbody>
</table>

New Numbers:

- Lubbock, TX 806/762-2402 C FX
- Atlanta, GA 404/581-0619 1200 Baud - 212 modems only
- Houston, TX 713/977-7671 1200 Baud - 212 modems only
- Tulsa, OK 918/663-2220 C

Deleted Numbers:

- Jacksonville, FL 904/353-7884 (This number replaced by 904/721-8100)
- Tulsa, OK 10cps 918/492-1687 C (These numbers replaced by 918/492-5306 C 918/663-2220)
- Tulsa, OK 30cps
PRINTING ON-LINE, CAPS ONLY

Users with terminals which print characters in both upper and lower case, may change from upper/lower case print to upper case by using the command "CAPS at SUNY and on NLM and NLM3. (NLM and NLM3 offer either upper/lower case or upper case only printing on-line while NLM2 and NLM4 restrict on-line printing to upper case only.) This command applies to on-line printing only.

Example:

SS 1 /C?
USER:
LIVER DISEASES (MH)

PROG:
SS (1) PSTG (4227)

SS 2 /C?
USER:
"PRT 1

PROG:

1
AU - Valdes EF
AU - Herrero MV
AU - Calb I
AU - Bello C
TI - Skin microvascular lesions in chronic diffuse hepatic diseases.
SO - Australas J Dermatol 19(1):25-8, Apr 77

SS 2 /C?
USER:
"CAPS

USER:
"PRT 1

PROG:

1
AU - VALDES EF
AU - HERRERO MV

.
SERLINE
Betsy Humphreys, Technical Services Division, NLM

INTRODUCTION

SERLINE (SERials-on-LINE) contains approximately 35,000 records representing all serials and numbered congresses which are on order, in process, or currently received at NLM. Ceased serials in the NLM collection are being added to the file gradually. Since CATLINE contains only records for titles cataloged since 1965, SERLINE contains many serial titles not found in the on-line catalog. Location symbols for approximately 120 resource libraries in the Regional Medical Library Network currently appear on about 6500 primary, substantive journals in the file. As of early 1978, SERLINE will assume the MEDLINE citation input and publication functions of the present Journal Authority File; the separate Journal Authority File will be removed from the network.

SERLINE is designed to support interlibrary loan and cooperative acquisitions activities throughout the Regional Medical Library Network by providing readily searchable bibliographic and location information for biomedical serials. The file can also be used to produce tailored listings of locally available serials in special subject areas or languages, of important titles held by very few libraries in a region, of important titles not held in a region, etc.

ENTERING THE SERLINE FILE

Authorized subscribers may access the SERLINE file by following NLM login procedures. To switch to SERLINE, users enter "FILE SERLINE."

SERLINE UNIT RECORD

The SERLINE unit record is the computer stored information representing one serial or numbered congress. The table below lists all the data elements:

<table>
<thead>
<tr>
<th>NAME OF ELEMENT</th>
<th>SEARCH QUALIFIER</th>
<th>TEXT WORD SEARCHABLE</th>
<th>&quot;PRT&quot; DETAILED</th>
<th>&quot;PRT&quot; FULL</th>
<th>&quot;PRT&quot; LOC</th>
<th>&quot;PRT&quot; AC</th>
<th>&quot;PRT&quot; INDEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>TI</td>
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<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Title Search Key</td>
<td>TK</td>
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<td></td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
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<tr>
<td>Title Abbreviation</td>
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<td>X</td>
<td></td>
<td></td>
<td></td>
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<td>X</td>
<td>X</td>
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<td>X</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>Publisher</td>
<td>PU</td>
<td>*</td>
<td>X</td>
<td>X</td>
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<td>CP</td>
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<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAME OF ELEMENT</td>
<td>SEARCH QUALIFIER</td>
<td>SEARCHABLE</td>
<td>TEXT WORD SEARCHABLE</td>
<td>PRT DETAIL</td>
<td>PRT FULL</td>
<td>PRT LOC</td>
<td>PRT AC</td>
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<td>------------------</td>
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<td>----------------------</td>
<td>-----------</td>
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<tr>
<td>General Notes</td>
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<td>Open/Closed Indicator</td>
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<td>Journal Subset</td>
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<td>*</td>
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<tr>
<td>Special List Indicator</td>
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<td>Selectively Indexed Indicator</td>
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<td>*</td>
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<tr>
<td>Date Established Rangeable</td>
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<tr>
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<td>Indexing Status</td>
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<td>Pulldate</td>
<td>LJ</td>
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</tr>
<tr>
<td>Date of Last Major Revision</td>
<td>MR</td>
<td>*</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The following is a description of some important data elements in the unit record:

**TITLE (TI)**

For all true serials, this element contains the main title as it appears on the piece.

**JOURNAL OF THE AMERICAN DENTAL ASSOCIATION**

**NOT** **AMERICAN DENTAL ASSOCIATION. JOURNAL**

Added Titles appear in a separate element (AT).

For numbered congresses which do not have overall titles, this element contains the name of the congress.

There are no diacritical marks, apostrophes, or ampersands in SERLINE. In German words, an umlaut causes the vowel it modifies to be followed by an E. Otherwise all diacritical marks are disregarded. Elided articles (such as d', l') are separated from the words they modify by a blank instead of an apostrophe. The possessive case S is added to the end of the word it modifies. Ampersands are translated to AND in the language of the title.

The Title and Added Title elements are both searchable through the Text Word (TW) capability and also by means of the Title Search Key (TK) described below. In general, the most efficient way of searching the Title and/or Added Title is through a combination of a Title Search Key and Text Word(s).

**TITLE SEARCH KEY (TK)**

The Title Search Key is composed of the following four elements:

1. the first three letters of the first significant word;
2. the first letter of the second word;
3. the first letter of the third word; and
4. the first letter of the fourth word.

These elements are separated by slashes (/). If the title contains fewer than four words, the title search key is shortened accordingly but it always ends with a letter, not a slash. Examples:

- **Title** - Annual Survey of Psychoanalysis
  **Title Search Key** - ANN/S/0/P

- **Title** - Antibiotics
  **Title Search Key** - ANT

- **Title** - Annales d Oculistique
  **Title Search Key** - ANN/D/O

Initial articles are disregarded, but internal articles, prepositions, and conjunctions are used to construct the Title Search Key. If the complete title
is not known, the user should search by means of Text Words alone. Note that in SERLINE the Title Search Key is a separate printable element with its own qualifier. In CATLINE and AVLINE, the Title Search Key is part of the TI field and is not printable in Standard "PRINT commands.

SPECIAL CASES

If the first significant word of a title contains fewer than three letters, one blank is included in the title key after the first word. For example:

Title - In Vitro
Title Search Key - IN /V

Title - Y Hoc Viet-Nam
Title Search Key - Y /H/V/N or Y /H/V

For artificially hyphenated words (i.e., hyphenated words with component parts which might conceivably stand alone), two forms of title key have been provided. For example:

LIFE-THREATENING BEHAVIOR
LIF/T/B
LIF/B

Hyphenated words with elements which normally could not stand alone are treated as one word. For example:

ACTA SOCIA-MEDICA SCANDINAVICA
ACT/S/S

When in doubt, try both ways.

EXP (the abbreviation for EXPLODE), NOT, ALL, YES, and AND are always interpreted according to their special meanings in the general ELHILL search statement vocabulary. They must be disguised when they occur at the beginning of a search key in one of the two ways described below:

(1) The Single variable character symbol (#) can be substituted for the last letter of the first element of the Title Search Key. (For a further explanation of the Variable Character Symbol, See Part 3 of the On-Line Services Reference Manual.

ALLERGIE UND ASTHMAFORSCHUNG
AL#/U/A

(2) The variable character symbol (#) can be used in place of the first slash of the Title Search Key.

ALLERGIE UND ASTHMAFORSCHUNG
ALL#U/A

EXPERIMENTAL BRAIN RESEARCH
EXP#B/R

-11-
In many cases searching exclusively with Title Search Key or Text Word(s) will result in the retrieval of multiple records. If a Title Search Key is ANDed with a Text Word from the title, the search will usually retrieve only one record. This is the best way to search for a specific title, if the complete title is known.

To retrieve *Journal of the American Association for Preventive Dentistry*:

```
JOU/O/T/A AND PREVENTIVE (TW)
```

**PROG:**
PSTG (1)

**ABSTRACTING AND INDEXING TAGS (AI)**

Codes are listed on many primary, substantive journals if they are indexed in any of the indexing and abstracting publications listed below. In addition, the code EA has been added for non-English and non-Romance language journals if most of the articles have English abstracts. Abstracting and indexing tags in the database are:

- **AIM** - Abridged Index Medicus
- **AV** - Titles indexed for the upcoming index of Audiovisual Serials
- **BA** - Biological Abstracts
- **CA** - Chemical Abstracts
- **EA** - English Abstract
- **EM** - Excerpta Medica
- **HLI** - Hospital Literature Index
- **IDL** - Index to Dental Literature
- **IM** - Index Medicus
- **INI** - International Nursing Index
- **PA** - Psychological Abstracts
- **POP** - Population Sciences
- **SCI** - Science Citation Index

Use the qualifier (AI) when searching with these tags because the abbreviations could be interpreted as other data elements.

A search for Japanese *Index Medicus* titles would be entered as follows:

```
IM (AI) AND JPN (LA)
```

**MAIN HEADINGS (MH)**

If the serial was cataloged* by NLM since 1965, the MeSH main headings assigned by the cataloger appear in this element. SERLINE contains no subheadings of any type. The main headings are directly searchable, but SERLINE does not have the explode capability for subject searching.

**NLM CALL NUMBER (CA)**

The NLM Call Number is directly searchable. In addition to actual call numbers, the following may also appear in the call number field:

*or recataloged
ON ORDER - Title has been ordered for NLM collection.

ON ORDER - CIP - Title has been ordered for NLM collection. CIP cataloging has been done for the title.

ON ORDER - UCLA - Title has been ordered for NLM collection based on information received from UCLA Biomedical Library. UCLA may or may not already have the title.

IN PROCESS - Title has been received by NLM and is being cataloged.

CLASSED SEP - For numbered congresses only. Individual meetings are classed separately at NLM.

There is no location symbol for NLM in SERLINE. The presence or absence of an NLM call number indicates whether the title is held by NLM. NLM call numbers are required on interlibrary loan requests verified in SERLINE. ISSN should also be included on interlibrary loan requests where available.

**RESOURCE LIBRARY LOCATION SYMBOLS (L1 - L11)**

Locator information is carried in the form of a five-character alpha-numeric code, which indicates that a library has at least the last five years of the title. The first two characters of the Location Symbol are numeric and identify the region to which a library belongs, and the last three characters are an alphabetic code which identifies a particular library within that region. The locator code 01HMS indicates that the title is held in the New England Region (Region 01) by the Francis A. Countway Library of Medicine (Harvard Medical School). All resource libraries in a particular region which hold a serial will be listed in the record for that title. Locator information for approximately 120 participating medical libraries is carried in SERLINE. For a complete listing of these codes, see the Appendices to the SERLINE section in the current On-Line Services Reference Manual.

These fields are Text Word searchable. Do not use the L1 to L11 field mnemonic when searching them. The (TW) qualifier can be used, but is not necessary because each code is a unique term and will not produce a Multi-Meaning message.

To find foreign language Index Medicus titles owned by Washington University (08WSL), search:

08WSL AND IM (AI) AND NOT ENG (LA)

**REGIONAL LOCATION COUNTS (K1 - K11)**

The number of resource libraries per region with codes listed for a title is directly searchable. This element is designed to assist in regional acquisitions planning by allowing the user to look for classes of serials owned by very few or very many resource libraries within a region.

To search for English IM titles held by fewer than 4 libraries in Region 6:
This element is used to search all locations in a region at once to determine whether a title is held in any locations for a particular region without reference to specific resource libraries. The values are 01 to 11.

To search for all English Index Medicus titles not held in Region 3:

\[ \text{IM (AI) AND ENG (LA) AND NOT } 03 \text{ (RG)} \]

**PUBLISHER'S ADDRESS (AD)**

SERLINE contains this element for lesser known publishers if the titles have been ordered or re-ordered by NLM in the last two years. The element may also include the message 'MUST ORDER DIRECT' if NLM has been informed that the title is not available through subscription agents. Address is not directly searchable.

**PRICE (PR)**

Price listed is the amount NLM paid for one copy of the serial for the current year. Initially this element will not be present on the majority of titles. Price is not directly searchable.

**GAPS (GA)**

Issues missing from the NLM collection are listed in this element. If users have any of these issues and could provide them to NLM (or if they know that certain issues were never published), they should contact the Head, Serial Records Section. **NOTE:** Issues listed as missing may be requested from NLM. They may have been received at NLM after the last SERLINE update. Gaps are not directly searchable.

**OUT OF PRINT NOTE (OP)**

If NLM has attempted to buy back issues and been told they are no longer available, an out of print note will appear in this element. This field is not directly searchable.

Please note that the last 13 data elements in the unit record appear only on titles indexed for MEDLINE.
SERLINE "PRINT COMMANDS

There are six standard "PRINT commands in SERLINE. The elements included in each are indicated in the Unit Record Table. In addition to "PRINT, "PRINT FULL, and "PRINT DETAILED, SERLINE has the following:

"PRINT LOC or "PRINT LC - This command allows the user to print locations from all regions without listing the 11 regional element qualifiers.

"PRINT ACQUISITIONS or "PRINT AC - This command prints acquisitions information.

"PRINT INDEX or PRINT IN - This command prints indexing authority information for serials indexed for MEDLINE.

The Standard "PRINT format provides the information needed to verify inter-library loan requests.

DRUGS OF ABUSE
William Caldwell, Index Section, NLM

Drug abuse continues to be a problem of major concern and is estimated to cost this country in excess of $10 billion per year in terms of lost productivity, narcotics-related crime, and drug abuse prevention programs. It is certain that interest in various aspects of this problem will continue, and all search analysts should be prepared to handle two basic types of requests they might receive.

The first, and simplest, is a general request on "drug abuse." MeSH provides a variety of terms which should be considered, such as

DRUG ABUSE         GLUE SNiffinG
DRUG AND NARCOTIC CONTROL     HERON ADDICTION
DRUG DEPENDENCE            MORPHINE ADDICTION
DRUG TOLERANCE            STREET DRUGS
DRUG WITHDRAWAL SYMPTOMS

and perhaps a few others, depending upon the nature of the request. The point here is that little is to be gained by exploding all of the Trees containing narcotics and other drugs with abuse potential; if the concept of "drug abuse" is present in the article to a reasonable extent, indexers will have used one or more of these terms.

The second type of request may require searching on several drug terms instead of, or in addition to, the headings listed above. For example, a request on "central nervous system depressants reported to be involved in drug abuse" requires that the searcher be able to identify the central nervous system depressants. A common urge may be to explode Category D14 - CENTRAL NERVOUS SYSTEM DEPRESSANTS (NON MESH). But in doing so, two things result: you
automatically search on many drugs which are not likely to be abused (e.g., local anesthetics), and you miss some of those which are extremely likely to be (e.g., tranquilizers in Category D15). Further, needless explosion of entire categories of drugs is abuse in itself -- system abuse.

The purpose of this article is to identify those drug substances which, by law, are considered to be drugs of abuse. In one sense, any drug which is abused is, by definition, a drug of abuse. But certain ones are notorious because they are trafficked illicitly, or because they produce tolerance, dependence, or both. (Tolerance: the user needs progressively larger doses to attain the desired effect. Dependence: an alteration in normal physiologic functions that necessitates the continued presence of a drug in order to prevent withdrawal symptoms.) These are the ones which should certainly be included in a drug abuse search, and the Federal Controlled Substances Act of 1970 explicitly names them. The inclusion of other drug names in a search formulation, even if they are potentially abusable drugs, does little to increase retrieval and can hamper relevance.

The Controlled Substances Act covers five classes of drugs. They are:

NARCOTICS
CANNABIS
HALLUCINOGENS
STIMULANTS
DEPRESSANTS

In the following, MeSH headings appear in upper case. Substances for which there is no precise MeSH term are listed for their use in text-word searching; they appear in lower case. Some common trade names and other designations, many of which are entry terms in MeSH, appear in parentheses.

A. NARCOTICS.

Prior to 1970, "narcotic" was defined as:

"coca leaves, opium, cannabis, and every other substance neither chemically nor physically distinguishable from them; any other drugs to which the Federal Narcotic Laws may not apply; and any other drug found to have an addiction-forming or addiction-sustaining liability similar to morphine or cocaine..."

- Uniform Narcotic Drug Act

This definition led to confusion and was at odds with the classical and pharmacological meanings of the term (from the Greek narkos, "pertaining to or producing stupor and narcosis; an agent that produces insensibility or stupor").

Currently, as defined in the Act of 1970, "narcotic" now means:

"opium, its derivatives, or synthetic substitutes that produce tolerance and dependence, both psychological and physical."
There is one exception to this definition. **COCaine**, though not a derivative of opium, is classified as a narcotic.

The following **MeSH** terms are narcotics:

- ALPHAPRODINE
- ANILERIDINE (Leritine)
- COCAINE ("snow")
- CODEINE
- DEXTROMORAMIDE
- DIACETYLMORPHINE (Heroin)
- DIHYDROMORPHINONE (Dilaudid)
- ETHYLMORPHINE
- ETORPHINE
- FENTANYL
- HYDROCODONE
- LEVORPHANOL
- Meperidine (Pethidine; Demerol)

+DIPHENOXYLATE
+DIPRENORPHINE
ETHYLMORPHINE
ETORPHINE
FENTANYL
HYDROCODONE
LEVORPHANOL
MEPERIDINE (Pethidine; Demerol)

+All of these headings appear in the NARCOTICS Tree (D14.757), except for the three with plus signs; these, I am told, were omitted through error. Similarly, the two terms PROPOXYPHENE and PROPOXYPHENE NAPSYLATE which appear in the Narcotics Tree are there in error. These errors will be corrected in a future issue of MeSH.

All of the following substances, not in MeSH, are classified as narcotics by the Controlled Substances Act. They may be useful for Text-Word search.

- acetorphine
- acetylidihydrocodeine
- allylprodine
- alphacetylmethadol
- alphameprodine
- benzethidine
- benzitramide
- benzylmorphine
- betacetylmethadol
- betameprodine
- betamethadol
- betaprodine
- clonitazene
- codeine methylbromide
- codeine-N-oxide
- cyprenorphine
- desomorphine
- diampromide
- diethylthiambutene
- difenoxin
- dihydrocodeine
- dihydromorphone
- dimenoxadol
- dioxaphetyl
- dipipanone
- drotebanol
- ethylmethylthiambutene
- etonitrazene
- etoxeridine
- furethidine
- hydromorphinol
- hydroxypethidine
- isomethadone
- ketobemidone
- levomethorphan
- levomoramide
- levophenacylmorphan
- levorphan
- metazocine
- methyl-desmorphone
- methylidiodyromorphine
- morpheridine
- morphine methylbromide
- morphone methylsulfonate
- myrophine
- methadyl acetate
- methadone (Dolophine)
- metopon
- morphine
- opium
- oxycodone (Percodan)
- oxymorphone
- pantopon
- phenazocine
- pirinoperidine
- promedol
- thebaïne
- thiambutene
nicocodeine          phenoperidine.
nicomorphine         pholcodine
noracymethadol       piminodine
norleyorphanol       proheptazine
normethadone          properidine
normorphine           propiram
norpipanone           racemethorphan
phenadoxone           racemoramide
phenampramide         racemorphan
phenormorphan         thebacon

B. CANNABIS.

Note that in MeSH, CANNABIS is the plant, assigned to Category B6; MARIHUANA
and HASHISH are both entry terms to CANNABIS. There are several chemical
constituents in the plant, but delta-9-tetrahydrocannabinol is thought to be
the principal psychoactive substance. Thus, the only two MeSH terms likely
to be useful in a search on marijuana are:

CANNABIS (Marijuana; Marihuana; Hashish)
TETRAHYDROCANNABINOL

C. HALLUCINOGENS.

This class of drugs includes a wide variety of natural and synthetic sub-
stances. Indented under HALLUCINOGENS (D15.236.372) are most of those listed
in the Controlled Substances Act, but there are some which are not. Only the
following are, by law, hallucinogens of abuse:

<table>
<thead>
<tr>
<th>MeSH</th>
<th>For Text-Word Searching</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUFOTENIN</td>
<td>4-bromo-2,5-dimethoxyamphetamine</td>
</tr>
<tr>
<td>CANNABIS</td>
<td>2,5-dimethoxyamphetamine</td>
</tr>
<tr>
<td>DIMETHYLTRYPTAMINE</td>
<td>5-methoxy-3,4-methylenedioxy-</td>
</tr>
<tr>
<td>DOM</td>
<td>amphetamine</td>
</tr>
<tr>
<td>IBOGAINE</td>
<td>3,4,5-trimethoxyamphetamine</td>
</tr>
<tr>
<td>LYSERGIC ACID DIETHYLAMIDE</td>
<td>Diethyltryptamine</td>
</tr>
<tr>
<td>MESCALINE</td>
<td>N-ethyl-3-piperidyl benzilate</td>
</tr>
<tr>
<td>PEYOTE</td>
<td>N-methyl-3-piperidyl benzilate</td>
</tr>
<tr>
<td>P-METHOXYAMPHETamine</td>
<td>Psilocyn</td>
</tr>
<tr>
<td>3,4-METHYLENEDIOXYAMPHETAMINE</td>
<td>Thienyl phencyclidine (TPCP)</td>
</tr>
<tr>
<td>PSILOCYBINE</td>
<td></td>
</tr>
</tbody>
</table>

D. STIMULANTS.

E. DEPRESSANTS.

The last two classes of drugs covered by the Act are the stimulants and the
depressants. Almost all are in MeSH (the exceptions are listed in lower
case) and are scattered throughout D Category.

D. STIMULANTS.

AMPHETAMINE (Benzedrine)                   |
AMPHETAMINIL                               |
BENZPHETAMINE (Didrex)                     |
P-CHLOROAMPHETAMINE                        |
CHLORPHENTERMINE (Pre-Sate)                |
clortermine                                |
### E. DEPRESSANTS.

<table>
<thead>
<tr>
<th>Drug</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALLOBARBITAL</td>
<td>methylphenobarbital</td>
</tr>
<tr>
<td>AMOBARBITAL (Tuinal; Amytal)</td>
<td>Meprobamate (Miltown; Equanil)</td>
</tr>
<tr>
<td>BARBITAL</td>
<td>Methaqualone (Quaalude)</td>
</tr>
<tr>
<td>barbituric acid + salts &amp; deriv.</td>
<td>METHOHEXITAL</td>
</tr>
<tr>
<td>BUTABARBITAL</td>
<td>METHYPRYLON (Noludar)</td>
</tr>
<tr>
<td>chloral betaine</td>
<td>MUREXIDE</td>
</tr>
<tr>
<td>CHLORAL HYDRATE (&quot;Micky Finn&quot;)</td>
<td>oxazepam (Serax)</td>
</tr>
<tr>
<td>CHLORDIAZEPOXIDE (Librium)</td>
<td>Paramidine</td>
</tr>
<tr>
<td>CLONAZEPAM</td>
<td>PentoBarbital (Nembutal; &quot;yellow jackets&quot;)</td>
</tr>
<tr>
<td>CYCLOBARBITAL</td>
<td>petrichloral</td>
</tr>
<tr>
<td>Diazepam (Valium)</td>
<td>Phencyclidine (PCP)</td>
</tr>
<tr>
<td>ETHCHLORVYNOL (Placidyl)</td>
<td>PhenoBarbital (Luminal)</td>
</tr>
<tr>
<td>ETHIAMATE (Valmid)</td>
<td>Prazepam</td>
</tr>
<tr>
<td>FLURAZEPAM (Delmane)</td>
<td>secobarbital (Seconal)</td>
</tr>
<tr>
<td>GLUTETHIMIDE (Doriden)</td>
<td>sulfoindethylmethane</td>
</tr>
<tr>
<td>HEPTABARBITAL</td>
<td>sulfonethylmethane</td>
</tr>
<tr>
<td>IPRONAL</td>
<td>sulfonmethane</td>
</tr>
<tr>
<td>lysergic acid</td>
<td>lysergic acid amide</td>
</tr>
<tr>
<td>MEBUTAMATE</td>
<td>METHAMPHETAMINE (&quot;speed&quot;)</td>
</tr>
<tr>
<td>MECLOQUALONE</td>
<td>METHAMPHETAMINE</td>
</tr>
<tr>
<td>MEFOPHORBITAL</td>
<td>METHAMPHETAMINE</td>
</tr>
<tr>
<td>MEFOPROBAMATE (Miltown; Equanil)</td>
<td>METHYPRYLON (Noludar)</td>
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</tr>
<tr>
<td>NALORPHINE</td>
<td>Methaqualone (Quaalude)</td>
</tr>
<tr>
<td>oxazepam (Serax)</td>
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<td>sulfonethylmethane</td>
<td>Methaqualone (Quaalude)</td>
</tr>
<tr>
<td>sulfonmethane</td>
<td>Methaqualone (Quaalude)</td>
</tr>
</tbody>
</table>

**Lagniappe, for the devoted:**

There are currently three drugs named by the Controlled Substances Act which do not fall into one of the five classes. One of these (FENFLURAMINE) I have included in the list of stimulants, for all evidence seems to point in that direction. The other two are PROPOXYPHENE (Darvon) and its salt PROPOXYPHENE NAPSYLATE, mentioned above under NARCOTICS. These two non-narcotic analgesics were only recently added to the Act; though not officially assigned to a class, they might properly be included with the depressants.

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**DRUG METABOLISM**

Peri Schuyler, Index Section, NLM

Following are terms from the 1978 MeSH vocabulary devoted to the coverage of the metabolism of exogenous drugs and chemicals. I have deliberately excluded reference to processes such as ENZYME ACTIVATION, OXYGEN CONSUMPTION, etc. because, although they are indeed metabolic processes, they represent processes which may be affected by drugs, and not processes undergone by the drugs them-

*These terms are not stored as a computer-retrievable hedge.
selves. Also omitted are headings such as NUCLEIC ACID HYBRIDIZATION, PEPTIDE CHAIN INITIATION, etc. because these are in general restricted to endogenous chemicals and not administered drugs.

I have divided the terms into two broad components: pharmacokinetics and biopharmaceutics. The arrangement of the terms within these groups is purely intellectual and is not meant to reflect the MeSH hierarchical display in the tree structures. The (*) following some of the headings indicates that there are more specific indentions under a given heading in the trees. The subcategory locations of the headings are given in parentheses following each heading.

1. Pharmacokinetics

Pharmacokinetics deals with the absorption, distribution, biotransformation and excretion of drugs. All of these processes involve the diffusion and transport of the drug across cell membranes in order to permeate the cell (see Goodman, Louis S. & Gilman, Alfred. The Pharmacological Basis of Therapeutics, 5th ed. New York, Macmillan, 1975, Chapter 1 for an extensive discussion of pharmacokinetics).

In indexing, the subheading /metabolism is used to cover the pharmacokinetic concept, often coordinated with KINETICS (NIM). In addition, the subheadings /blood, /cerebrospinal fluid, /urine (especially for the excretion process), /biosynthesis and /secretion may be used when articles deal with these specific aspects of drug metabolism.

The terms below are divided into arrays on pharmacokinetic processes, distribution, biotransformation and technics which may be employed in metabolic studies.

**Pharmacokinetic processes**

**ABSORPTION (H)**
  - INTESTINAL ABSORPTION (G10)
  - SKIN ABSORPTION (G10)

**DIFFUSION (G6, H)**
  - DIALYSIS (E5, H)
  - FILTRATION (H)
  - OSMOSIS (G6, H)
  - OSMOTIC PRESSURE (H)

**PERMEABILITY (H) (*)**
  - BIOLOGICAL TRANSPORT (G6)
  - BIOLOGICAL TRANSPORT, ACTIVE (G6)
  - BLOOD-BRAIN BARRIER (G11, G12)
  - BLOOD-TESTIS BARRIER (G6, G12)
  - CAPILLARY PERMEABILITY (G6, G9)
  - CELL MEMBRANE PERMEABILITY (G4, G6)

**Other metabolic processes**

**ABSORPTION (H)**
**CATALYSIS (H)**
**CRYSTALLIZATION (H)**
**HYDROGEN BONDING (H)**
**ION EXCHANGE (H)**
**PRECIPITATION (H)**
**VOLATILIZATION (H)**
Distribution

BINDING SITES (G6) (*)
   ALLOSTERIC SITE (G6)
   ISOSTERIC SITE (G6)

BINDING, COMPETITIVE (G6)
PROTEIN BINDING (G6)

RECEPTORS, DRUG (G6, G12) (*)

CHEMOTAXIS (G4)

SPECIES SPECIFICITY (G4) (this may be a useful parameter in discussing
   the relative metabolic rates in different
   species, i.e., "fast acetylators, slow acetylators", etc.)

ORGAN SPECIFICITY (G4)

TISSUE DISTRIBUTION (G6)
BRAIN CHEMISTRY (G6)

Transformation

BIOTRANSFORMATION (G12) (*) (involves the chemical alteration of ex-
   ogenous chemicals or drugs in biological systems)

ACYLATION (H)
   ACETYLATION (H)

ALKYLATION (H)
   METHYLATION (H)
   DEALKYLATION (H)

AMINATION (H)
   DEAMINATION (H)

CYCLIZATION (H)

DECARBOXYLATION (H)

ESTERIFICATION (H)

GLYCOLYSIS (G6)

HYDROGENATION (H)

HYDROLYSIS (H)

HYDROXYLATION (H)

OXIDATION-REDUCTION (G6, H)
   OXIDATIVE PHOSPHORYLATION (G6)
   OXIDATIVE PHOSPHORYLATION COUPLING FACTORS (D12)
   UNCOUPLING AGENTS (D8) (*)
Technics (best used as coordinates with drug headings)

ISOTOPE LABELING (E5)
RADIOISOTOPE DILUTION TECHNIC (E1)
RADIOISOTOPES (D1) (*) (primarily CARBON RADIOISOTOPES and TRITIUM in tracer studies)
RADIOACTIVE TRACERS (D1)
MODELS, BIOLOGICAL (H) (drug metabolism studies deal with 1-, 2-, and 3-compartment pharmacokinetic models)

2. Biopharmaceutics

Biopharmaceutics deals with the relationship of the formulation and route of administration of a drug to its biological availability or therapeutic effect. Again, in indexing, the subheading /metabolism or one of the subheadings for specific aspects of metabolism is employed as the primary choice; the subheading /administration & dosage is used as the secondary parameter to cover the form and route of administration of the drug.

The terms below are divided into arrays on routes of administration, formulation and properties of the drugs themselves which may affect their disposition by the organism.

BIOPHARMACEUTICS (G12) (the four indentions found under this heading in G12 are displayed here for the sake of exemplifying the scope of the definition)

AVAILABILITY EQUIVALENCY (G12)
BIOLOGIC AVAILABILITY (G12)
PHYSIOLOGIC AVAILABILITY (G12)
THERAPEUTIC EQUIVALENCY (G12)

Routes of administration

DRUG ADMINISTRATION (NON MESH) (E5) (*) (includes administration headings, e.g., ADMINISTRATION, ORAL and injection headings, e.g., INJECTIONS, INTRAVENOUS)

DOSE-RESPONSE RELATIONSHIP, DRUG (G12)
DRUG TOLERANCE (G12)
TACHYPHYLAXIS (G12)

Formulation

TECHNOLOGY, PHARMACEUTICAL (E5, J)
CHEMISTRY, PHARMACEUTICAL (G6, G12, H)
DRUG COMPOUNDING (E5)
DESICCATION (H)
HARDNESS (H) (e.g., of tablets)
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HARDNESS TESTS (E5, H)
HUMIDITY (H)
PARTICLE SIZE (H)
PRESSURE (H) (i.e., in compression of tablets)
SOLUBILITY (H)
SURFACE PROPERTIES (H) (*)
TEMPERATURE (H) (*)
TENSILE STRENGTH (G7, H) (e.g., of tablets)
VISCOITY (H)

HYDROGEN-ION CONCENTRATION (H)
OSMOLAR CONCENTRATION (H)

DRUG INCOMPATIBILITY (E5)
DRUG INTERACTIONS (G12) (*)
DRUG PACKAGING (E5) ( x DRUG CONTAINERS AND CLOSURES)
DRUG STABILITY (E5)
DRUG STORAGE (E5)

PHARMACEUTIC AIDS (D26) (*)
SOLVENTS (D26)

Properties

KINETICS (H)
HALF-LIFE (H)
METABOLIC CLEARANCE RATE (E1, G6)
THERMODYNAMICS (H)

MOLECULAR CONFORMATION (G6, H) (*)
ISOMERISM (H)
STEREOISOMERS (H)

MOLECULAR WEIGHT (H)
SPECIFIC GRAVITY (H)

NORMAL VALUES (H)
STRUCTURE-ACTIVITY RELATIONSHIP (G6, G12, H)

3. Free-text search suggestions

compartment
conjugate (usually glucuronide, sulfate, or estrogen conjugates in biotransformation studies)
disposition
distribution
clearance
excretion
pharmacokinetics
The following substantive serial titles were received or ordered by the Serial Records Section. A plus (+) indicates that the title appears in Index Medicus. An asterisk (*) indicates that an issue has actually been received in the Library. PLEASE NOTE: NLM CANNOT FILL LOANS FOR TITLES WITHOUT THE ASTERISK (*). THEY HAVE NOT YET BEEN RECEIVED BY THE LIBRARY. The list is offered as an early announcement. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Betsy Humphreys, 301/496-1276, Technical Services Division, NLM.

ACTA MEDICA HYGOENSIA  
1, 1976--  
Medical Society of Hyogo  
College of Medicine  
Hyogo, Japan

ADVANCED EXERCISES IN DIAGNOSTIC RADIOLOGY  
9, 1977--  
W B Saunders Company  
Philadelphia, Pennsylvania

*ALIMENTAZIONE NUTRIZIONE METABOLISMO  
1, 1975--  
Societa Editrice Universo  
Collana di Supplementi Monografici della Rivista la Clinica Dietologica  
Rome, Italy

**AMERICAN JOURNAL OF SPORTS MEDICINE  
4, 1976--  
Williams and Wilkins  
Baltimore, Maryland

*APPLIED RADIOLOGY  
5, 1976--  
Barrington Publications  
Cont Applied Radiology and Nuclear Medicine  
Los Angeles, California

BRITISH JOURNAL ON ALCOHOL AND ALCOHOLISM  
12, 1977--  
Medical Council on Alcoholism  
Cont of Journal of Alcoholism  
London, England

BULLETIN OF ANIMAL HEALTH AND PRODUCTION OF AFRICA  
1975--  
Inter-African Bureau for Animal Resources  
Cont of Bulletin of Epizootic Diseases of Africa  
Nairobi, Kenya

DEVELOPMENT IN MAMMALS  
1, 1977--  
North-Holland  
Amsterdam, Netherlands

DEVELOPMENTS IN CELL BIOLOGY  
1, 1977--  
Elsevier/North-Holland Biomedical Press  
Amsterdam, Netherlands

DIRECTORY - HEALTH SYSTEMS AGENCIES AND HEALTH PLANNING DEVELOPMENT AGENCIES  
1977--  
Rockville, Maryland

FEBS - SYMPOSIUM  
N42, 1977--  
Springer Verlag  
FERTILITY CONTROL LOOKOUT
1, 1977--
Medical Information Center
Karolinska Institute
Stockholm, Sweden

GIORNALE ITALIANO DI ORTOPEDIA
E TRAUMATOLOGIA
1, 1975--
Aulo Gaggi Editore
Rome, Italy

HARVARD MEDICAL SCHOOL HEALTH LETTER
1, 1976--
Harvard Medical School
Boston, Massachusetts

ICD SCIENTIFIC AND EDUCATIONAL JOURNAL
1974--
International College of Dentists
Cont of Scientific and Educational Journal.
Berkeley, California

INTERNATIONAL JOURNAL OF FAMILY COUNSELING
5, 1977--
New York Family Counselors Institute
Continues Journal of Family Counseling
New York, New York

JOURNAL OF CARDIOGRAPHY
6, 1977--
Japanese Society of Cardiovascular Sound
Continues Cardiovascular Sound Bulletin
Bunkyo-Ku, Japan

JOURNAL OF FOOD SAFETY
1, 1977--
Food and Nutrition Press
Westport, Connecticut

JOURNAL FRANCAISE DE BIOPHYSIQUE ET MEDICINE NUCLEAR
1, 1977--
Gauthiers-Villars
Montreuil, France

JOURNAL FOR MEDICAID MANAGEMENT
1977--
Medical Services Administration
Washington, DC

JOURNAL OF PRACTICAL APPROACHES TO DEVELOPMENTAL HANDICAPS
1, 1977--
Vocational and Rehabilitation Research Institute
Calgary, Canada

*JOURNAL OF RESEARCH IN INDIAN MEDICINE YOGA HOMOEOPATHY
11, 1976--
Post Graduate Institute of Indian Medicine
Continues Journal of Research in Indian Medicine
Varanasi, India

MEMBRANE PROTEINS
1, 1977--
Dekker
New York, New York

MUSCLE AND NERVE
1, 1978--
Pinecliff Publishing Co.
Pacific Palisades, California

RESEARCH AWARD INDEX
1976--
U.S. Department of Health, Education and Welfare
Cont of Research Grants Index: Division of Research Grants.
National Institutes of Health.
Public Health Services
Bethesda, Maryland

SAUNDERS MONOGRAPHS IN CLINICAL ORTHOPAEDICS
1, 1977--
Saunders
Philadelphia, Pennsylvania

SOCIAL WORK RESEARCH AND ABSTRACTS
13, 1977--
National Association of Social Workers
Continues Abstracts for Social Workers
Albany, New York
SURGICAL TECHNIQUES ILLUSTRATED  
1, 1976--  
Little Brown and Company  
Boston, Massachusetts

WHOS WHO IN HEALTH CARE  
1, 1977--  
Hanover Publications  
New York, New York

+*ZEITSCHRIFT FUR IMMUNITAERSFORSCHUNG IMMUNOBIOLOGY. SUPPLEMENT  
2, 1975--  
Gustav Fischer Verlag  
Continues Zeitschrift fur Immunitatsforschung, Experimentelle und Klinische Immunologie. Supplementum  
Stuttgart, Germany
LIST OF MONOGRAPHS INDEXED
November 1977

A
American Association of Blood Banks Workshop on
Histocompatibility Testing, San Francisco, 1976. HALA
[Conference on Histocompatibility Testing, presented
by Committee on Workshops of the American Association of
Blood Banks, San Francisco, California, October 1976; [edited
by R. Ben Dawson, with editorial assistance by Lois J
James] — Washington American Assn of Blood Banks,
1976 vi, 100 p. ill Includes bibliographies 1 Histocompatibility
Testing — congresses 2 Histocompatibility Testing — congresses 1 Dawson,
Roy Benjamin, 1934- ed II American
Association of Blood Banks Committee on Workshops
III Title
ISBN 0-914404-24-3
04NLM W14 460 A51386 1976
IM
Ct No 7704609

B
Bayer-Symposium, 6th, Grosse Ledder, 1976. Experimental
models of chronic inflammatory diseases / edited by L E
Glynn and H D Schlumberger — Berlin, New York
Springer-Verlag, 1977 xx, 460 p. ill Proceedings of symposium held at Grosse Ledder, near Cologne, May
LC 76-30736
04NLM W3 BA266 1976e
05NLM [WE 344 B357 1976e]
IM Ct No 7700465 (rev CIP)

C
Conference on Prediction of Abuse Liability of Stimulant
dependence liability of stimulant and depressant drugs / edited by Trava Thompson and Klaus
R Unna — Baltimore University Park Press, c1977
xxi, 328 p. ill Conference sponsors Committee on Problems of Drug Dependence, NAS-NRC and other agencites 1 Analgesics — pharmacodynamics — congresses 2 Drug Dependence — congresses 3 Hypnotics and Sedatives — pharmacodynamics — congresses 4 Psychotropic Drugs — pharmacodynamics — congresses 1 Thompson, Trava, ed II Unna, Klaus R., ed III National Research Council Committee on Problems of Drug Dependence IV Title
ISBN 0-8391-1147-9
LC 77-7581
04NLM QV 100 C748p 1976
IM Ct No 7703084 (rev CIP)
Price 19 50

E
Echocardiography with Doppler applications and real time
imaging / edited by N. Bom — The Hague Martinus
Nijhoff Medical Division, 1977 vui, 360 p. ill A series of lectures held at Erasmus University, Rotterdam, in
June 1977, initiated by working groups of the Commission of the European Communities in association
with other agencies 1 Diagnots, Computer Assisted — congresses 2 Echocardiography — congresses 3 Heart Diseases — congresses 1 Bom, N. ed II Commission of the European Communities
LC 77 76306
04NLM WG 141 E18 1977
IM
Ct No 7706748

I
International Symposium on the Organization and Expression
of the Eukaryotic Genome, Teheran, 1976. The
organization and expression of the eukaryotic genome / edited by E. M. Bradbury, K. Javaherian — London,
New York Academic Press, 1977 xv, 510 p. ill Temporary cataloging Sponsored by the University of Teheran, the International Union of Biochemistry, and
the International Union of Pure and Applied Biophysics
1 Cell Differentiation — congresses 2 Chromatin — congresses 3 Genes, Biochemical — congresses 1 Bradbury, E. M., ed II Javaherian, K., ed III International Union of Biochemistry
International Union of Pure and Applied Biophysics
V University of Teheran VI Title
ISBN 0-12-123550-5
04NLM QH 450 I610 1976
IM
Ct No 7706874

M
Medical education and the contemporary world proceedings
of a symposium conducted by the University of Illinois
College of Medicine, September 13-14, 1976, Chicago,
Illinois / George E Miller, editor — [Baltimore, Md]
U S Dept of Health, Education, and Welfare, Public
Health Service, National Institutes of Health, [1976] x,
238 p. ill — (DHED publication, no. (NIH) 77-1232)
A publication of the John E Fogarty International Center for Advanced Study in the Health Sciences
1 Education, Medical — U S — congresses 1 Miller, George Emerson, 1919- ed II John E Fogarty International Center for Advanced Study in the Health Sciences III University of Illinois College of Medicine IV Title Symposium on medical education and the contemporary world V Series
04NLM W18 M4846 1976
IM
Ct No 7700956

N
Neuroregulators and psychiatric disorders / edited by Earl
Usdin, David A Hamburg, Jack D Barchas — New
York Oxford Univ Press, 1977 xxv, 627 p. ill, port
Proceedings of a conference on neuroregulators and hypotheses of psychiatric disorders held at the Asilomar
Conference Center, Pacific Grove, Calif, Jan 13-16
1676 1 Mental Disorders — etiology — congresses 2 Nervous System Diseases — etiology — congresses 3 Neurohumors — physiologic — congresses 1 Barchas, Jack D., 1935- ed II Hamburg, David A., 1925-
ed III Usdin, Earl, ed LC 76-42631
04NLM WM 100 N494 1976
IM
Ct No 7700669

P
Problems with temperature regulation during exercise / edited by Ethan R Nadel — New York Academic
Press, 1977 x, 141 ill Proceedings of a symposium held in conjunction with the American College of Sports
Medicine meeting in Anaheim, California, May 1976
1 Body Temperature Regulation — congresses 2 Exertion — congresses 1 Nadel, Ethan R., ed II American College of Sports Medicine III Title Symposium on problems with temperature regulation
during exercise
ISBN 0-12-123550-5
LC 77-4301
04NLM QT 255 P962 1976
IM
Ct No 7706447

R
Re-entrant arrhythmias : mechanisms and treatment / edited
by Henri E Kupferberg — Baltimore University Park
1 Arrhythmia — physiopathology — congresses 2 Arrhythmia — therapy — congresses 1 Kupferberg, Henri E., ed II Universite de Liege III Title Symposium on re-entrant arrhythmias mechanisms and treatment
ISBN 0-8391-1120-7
LC 77-7599
04NLM WG 330 R327 1976
IM Ct No 7703317 (rev CIP)

S
Symposium on Human Bone Marrow Transplantation, San
Francisco, 1976. Human bone marrow transplantation
as a symposium / presented by the International Society of
Blood Transfusion and the American Association of
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<table>
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<th>Section</th>
<th>Page</th>
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<td>LIST OF MONOGRAPHS INDEXED - DEC 77</td>
<td>9</td>
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<tr>
<td>PHONES LIST</td>
<td>APPENDIX A</td>
</tr>
</tbody>
</table>
TECHNICAL NOTES

PLEASE QUERY THE ON LINE NEWS FILES DAILY AT NLM FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the headings of each Technical Note will include a reference to the section/page of the NLM On-line Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual II-9). Users should keep in mind that the item may pertain to other sections of the Manual.

JOURNAL CITATION DATA BASES

MEDLINE and SDILINE were updated with 19,990 citations on October 11, 1977. The sizes, Index Medicus date ranges and entry dates are given below:

- MEDLINE (Jan 75 - Nov 77) 790,840 (Entry dates 741205 to 770929)
- SDILINE (Nov 77) 19,990 (Entry dates 770917 to 770929)

TOXLINE UPDATE - OCTOBER 31, 1977

The TOXLINE file was updated October 31, 1977, with 7,809 records as follows:

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<td>HEEP</td>
<td>Nov 77</td>
<td>1,178</td>
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<td>Nov 77</td>
<td>1,117</td>
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<tr>
<td>PESTAB</td>
<td>Aug/Sep 77</td>
<td>440</td>
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</tbody>
</table>

The update tag is 1077(ST). This brings the total number of documents in TOXLINE to 479,926.

REMINDER--INCREASED PAGE CHARGES

Please remember that effective January 1, 1978, the charge for offline prints and offsearch prints will increase from ten cents ($0.10) per page to twelve cents ($0.12) per page. Users were notified originally of this increase in a letter dated September 27, 1977 from Melvin Day, Deputy Director, NLM.
TYMNET AND TELNET ACCESS NUMBERS

There have been many changes in access numbers recently (some numbers deleted, many new "nodes" added, 120 CPS Bell 212 access added, etc.). Please see the new list of phone numbers, Appendix A attached.

AVLINE STATUS REPORT
Harold Schoolman, M.D., Deputy Director for Research and Education, NLM

In the AVLINE Status Report which appeared in the July NLM Technical Bulletin, NLM announced the initiation of a two-track processing stream. This system categorized all non-print media into two types of categories based on content and educational design criteria.

In an effort to provide rapid authoritative bibliographic information for current materials, the processing stream has been further refined to facilitate the release into AVLINE of all cataloged titles prior to the completion of the peer review process. The implementation of this change in processing has created five basic types of records which contain authoritative bibliographic cataloging data. Each record, however, may not contain full review data, or a critical abstract until the peer review process has been completed. To summarize, the five AVLINE record types are as follows:

RECOMMENDED - Complete AVLINE record which has been cataloged, reviewed, and recommended; full review data is provided with a critical abstract.

NOT RECOMMENDED - AVLINE record which has been reviewed but not recommended; full review data and a critical abstract are provided, but MeSH subject headings are not included.

NO REVIEW - Category A, Partial AVLINE record for a title which AAMC has chosen not to review at this time pending an anticipated content revision by the producer. Cataloging data and a producer-supplied summary/abstract are available without review data.

PENDING - Category A, Partial AVLINE record for a title which is in the review process. These records are updated upon completion of the review process. Until their transfer to either a RECOMMENDED or NOT RECOMMENDED status, they are only bibliographic records, without review data or abstract. Please note that these records contain authoritative cataloging data; full review data and abstract will be supplied after completion of the review process.

NONE - Category B, lecture type titles which do not go through the peer review process; cataloging data is available without review data or abstract.
On November 2, 1977, the Library Operations Branch of NLM conducted the first transcontinental On-Line Services Update Workshop. This three-hour program was broadcast via the NASA Communications Technology Satellite (CTS), enabling participants in Palo Alto, California, Denver, Colorado and Seattle, Washington to interact with NLM staff located in the Library's Billings Auditorium.

The CTS is a joint project of Canada and the U.S., including such U.S. agencies as NASA, Veterans Administration, and NLM's Lister Hill Center for Biomedical Communications. The satellite, which measures 55 feet in length with its solar panels fully extended, was designed and built by the Canadian government. It was launched into orbit by NASA on January 17, 1976, and is expected to provide a communications relay in the sky for at least two years. The satellite maintains a stationary orbit 22,300 miles above the equator off the west coast of South America and is capable of broadcasting throughout the Western Hemisphere, maintaining voice signals and color video pictures across vast distances.

Planning for the broadcast began several months ago under the direction of the On-Line Training Coordinator in cooperation with members of the staff of the Communications Engineering Branch of the NLM Lister Hill Center (LHC). Satellite receiving stations at the NASA/Ames Research Center at Moffett Field, California, the University of Washington Health Sciences Center in Seattle, and the University of Colorado Medical Center in Denver were selected as sites for participation in the program. The selection of these three stations was based on the location of the various satellite receiving stations in the U.S. and the concentration of NLM on-line searchers in those areas. Arrangements were made with the Regional Medical Libraries in Regions 8, 10 and 11 to incorporate the broadcast into their annual On-Line Services Update sessions. Ruth Swanson, Carole Stock and Michael Homan were asked to serve as "site facilitators" in their respective Regions for planning and coordination with the search analysts as well as the technical staffs at the satellite stations.

As the amount of time allotted to the update was to be limited to three hours it was agreed that the broadcast should include instruction on the 1978 MeSH, and the MEDLINE, SERLINE and RTECS data bases, as these topics are currently of most widespread interest and importance to NLM on-line system searchers. Thelma Charen, Index Section, Betsy Humphreys, Serials Records Section, and Laura Eisenberg, On-Line Training Coordinator, were chosen to serve as the panel of instructors. As the day of the broadcast drew near, the LHC technical crew in Bethesda worked closely with the instructors, briefing them on the mechanical aspects of CTS transmission, reviewing the program sequence, assisting in the preparation of visual aids, suggesting appropriate clothing and providing general support and encouragement.

Shortly after noon (EST) on November 2, the instructors, the technical crew and a small audience assembled in the Billings Auditorium. At precisely 12:30 p.m., the CTS logo appeared on monitors in Bethesda, Palo Alto, Seattle, and Denver. The broadcast was underway.
All went smoothly for the first portion of the program. The two-way audio-visual transmission allowed the instructors and participants to "see" and talk to each other during the interactive question-and-answer period. If not for the presence of cameras and bright lights, it would have almost seemed as though all of us were in the same room.

And then, at 1 hour and 23 minutes into the broadcast, telemetry on the satellite was lost and the three west coast locations ceased to receive the signal emanating from NLM. After a short pause while NASA technicians attempted to re-establish communications, the program resumed. From that point on, however, we were limited to one-way audiovisual transmission from Bethesda to the other sites. Questions from participants were received via telephone lines and through a loudspeaker in Billings Auditorium, requiring the instructors to repeat the questions prior to answering. In addition, the instructors found themselves speaking to blank television screens which was mildly disconcerting.

Nevertheless, the good spirits of the participants, instructors, and technical crew remained undaunted. All the topics to be included were covered and all questions were answered (using the extra 20 minutes permitted us by NASA), leaving one minute for closing credits and good-byes.

The feedback received from participants at all locations was overwhelmingly positive. The excitement of using the satellite and the opportunity to interact with NLM staff seemed to compensate for the technical difficulties encountered. The advantages of presenting the 1978 update material to several Regions simultaneously are obvious. The broadcast was, of course, an experiment and until an operating system based on this new technology has been established, we can only state that we are all very pleased to have had the opportunity to participate. We consider it to have been a (qualified) success and we'd love to do it again!

NEW SERIALS ANNOUNCEMENT - OCTOBER 1977
Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. A plus (+) indicates that the title appears in Index Medicus. An asterisk (*) indicates that an issue has actually been received in the Library. PLEASE NOTE: NLM CANNOT FILL LOANS FOR TITLES WITHOUT THE ASTERISK (*). THEY HAVE NOT YET BEEN RECEIVED BY THE LIBRARY. The list is offered as an early announcement. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Betsy Humphreys, 301/496-1276, Technical Services Division, NLM.

ACTA ONCOLOGICA BRASILERIRA
1, 1977--
Instituto Central - Hospital as Camargo da Fundacao
Antonio Prudente
Sao Paulo, Brazil

ADVANCES IN POLYAMINE RESEARCH
1, 1977--
Raven Press
New York, New York
*AFRICAN JOURNAL OF PSYCHIATRY
1, 1975--
Literamed Publications (Nig.)
Lagos, Nigeria

AGE
1, 1977--
University of Nebraska
Medical Center
Omaha, Nebraska

AGEING INTERNATIONAL
1, 1977--
International Federation on Ageing
Washington, D.C.

+AGENTS AND ACTIONS. SUPPLEMENT
1, 1977--
Birkhauser Verlag
Basel, Switzerland

*BEHAVIOR THERAPY IN PSYCHIATRIC PRACTICE
1, 1976--
Pergamon Press Inc.
Elmsford, New York

CCM - CRITICAL CARE MANUAL
1, 1976--
Upjohn
Kalamazoo, Michigan

CONTEMPORARY TOPICS IN ANALYTICAL AND CLINICAL CHEMISTRY
1, 1977--
Plenum
New York, New York

CRC HANDBOOK OF ELECTROPHORESIS
1, 1977--
CRC Press
Cleveland, Ohio

CRC HANDBOOK OF RADIATION MEASUREMENT AND PROTECTION
1, 1977--
CRC Press
Cleveland, Ohio

CRC HANDBOOK SERIES IN NUTRITION AND FOOD. SECTION A: NUTRITION AND FOOD SCIENCE
1, 1978--
CRC Press
Cleveland, Ohio

CRC HANDBOOK SERIES IN NUTRITION AND FOOD. SECTION B: THE LIVING ORGANISMS, THEIR CHEMICAL CONSTITUTION, FEEDING AND DIGESTIVE SYSTEM, AND ECOLOGICAL ASPECTS
1, 1978--
CRC Press
Cleveland, Ohio

CRC HANDBOOK SERIES IN NUTRITION AND FOOD. SECTION C: THE NUTRIENTS AND THEIR METABOLISM
1, 1978--
CRC Press
Cleveland, Ohio

CRC HANDBOOK SERIES IN NUTRITION AND FOOD. SECTION D: NUTRITIONAL REQUIREMENTS
1, 1977--
CRC Press
Cleveland, Ohio

CRC HANDBOOK SERIES IN NUTRITION AND FOOD. SECTION E: NUTRITIONAL DISORDERS
1, 1977--
CRC Press
Cleveland, Ohio

CRC HANDBOOK SERIES IN NUTRITION AND FOOD. SECTION G: DIETS, CULTURE MEDIA, AND FOOD SUPPLEMENTS
1, 1977--
CRC Press
Cleveland, Ohio

CRC HANDBOOK SERIES IN NUTRITION AND FOOD. SECTION H: THE STATE OF WORLD FOOD AND NUTRITION
1, 1978--
CRC Press
Cleveland, Ohio

CRC HANDBOOK SERIES IN NUTRITION AND FOOD. SECTION I: FOOD SAFETY, FOOD PROCESSING, FOOD PRESERVATION
1, 1978--
CRC Press
Cleveland, Ohio
CRC HANDBOOK SERIES IN NUTRITION AND FOOD. SECTION J: NUTRITION AND FOOD METHODOLOGY
1, 1978--
CRC Press
Cleveland, Ohio

CRC HANDBOOK OF ZOONOSES
1, 1977--
CRC Press
Cleveland, Ohio

DEVELOPMENTAL NEUROSCIENCE
1, 1977
Karger
Basel, Switzerland

DEVELOPMENTS IN TOXICOLOGY AND ENVIRONMENTAL SCIENCE
1, 1977--
Elsevier North Holland
Amsterdam, Netherlands

ENVIRONMENTAL HEALTH CRITERIA 1976--
World Health Organization
Geneva, Switzerland

ISOZYMES: CURRENT TOPICS IN BIOLOGICAL AND MEDICAL RESEARCH ISOZYMES
1, 1977--
Alan R. Liss
New York, New York

JOURNAL OF DENTISTRY FOR THE HANDICAPPED
1, 1977--
Academy of Dentistry for the Handicapped
Springfield, Ohio

*JOURNAL OF ORAL IMPLANTOLOGY
1977--
American Academy of Implant Dentistry
Continues Oral Implantology
Abington, Massachusetts

LABORATORIUM MEDIZIN
1, 1977--
Verlag Kirchheim and Co. GMBH
Mainz, West Germany

MMWR. CENTER FOR DISEASE CONTROL MORBIDITY AND MORTALITY WEEKLY REPORT
25, 1976--
Center for Disease Control
Continues Morbidity and Mortality Weekly Report
Atlanta, Georgia

NEW VISTA IN COUNSELING SERIES
1, 1977--
Human Science Press
New York, New York

PEDIATRIA
1977--
La Prensa Medica Argentina
Continues Archivos Argentinos de Pediatrie
Buenos Aires, Argentina

PERINATOLOGY/NEONATOLOGY
1977--
Barrington Publications
Los Angeles, California

PERSPECTIVES ON HEALTH POLICY
1, 1974--
Boston University Medical Center
Boston, Massachusetts

PERSPECTIVES IN OPHTHALMOLOGY
1, 1977--
Appleton-Century-Crofts
New York, New York

PHARMACOCHEMISTRY LIBRARY
1, 1977--
Elsevier
Amsterdam, Netherlands

+PROGRESS IN CLINICAL AND BIOLOGICAL RESEARCH
1, 1975--
Alan R. Liss
New York, New York

RENAI PHYSIOLOGY
1, 1977--
Karger
Basel, Switzerland
ERRATA

In the article DRUGS OF ABUSE by William Caldwell which appeared in the October 1977 issue, please make the following changes:

(1) in the quote from the Uniform Narcotic Drug Act defining a narcotic, change "not apply" to "now apply". (page 16)
(2) in the list of non-MeSH narcotics, change "dioxaphetyl" to "dioxaphetyl butyrate". (page 17)
(3) in the list of stimulants, change "dextroamphetamine" to "dextroamphetamine" and "phendimetrazine" to "phendimetrazine". (page 19)
(4) in the list of depressants, change "ethiamate" to "ethinamate" and insert "paraldehyde". (page 19)
LIST OF MONOGRAFIS INDEXED

NOVEMBER 1977

D

Development of host defenses / edited by Max D Cooper, Delbert H Dayton — New York Raven Press, c1977 xiv, 306 p ill — (Monograph of the National Institute of Child Health and Human Development) Based on a conference sponsored by the National Institute of Child Health and Human Development in May 1976


Drug metabolism concepts / Donald M Jenna, editor — Washington American Chemical Society, 1977 ix, 196 p ill — (ACS symposium series , 44) Outgrowth of a symposium titled 'Recent advances in the study of drug metabolism' held in San Francisco, September, 1976 Symposium co-sponsored by the Division of Medicinal Chemistry and the Division of Analytical Chemistry at the 172nd meeting of the American Chemical Society, San Francisco, Calif, August 31, 1976

1 Drug Synergism — congresses 2 Drug Tolerance — congresses 3 Drugs — metabolism — congresses 4 Metabolism — drug effects — congresses I Jenna, Donald M, ed II American Chemical Society Division of Analytical Chemistry III American Chemical Society Division of Medicinal Chemistry IV American Chemical Society V Title Symposium on recent advances in the study of drug metabolism VI Series ISBN 0-8412-0370-9 ISSN 0097-6156 LC 77-2279 04NLM QV 38 D7936 1976 IM Cit No 7707296

H


1 Health Occupations — congresses 2 Health Services — congresses 3 Sociology — congresses I Stacey, Margaret, ed II British Sociological Association III Title Health care and health knowledge ISBN 0-85202-119-2 LC 77-8198 04NLM W 21 H432 1976 IM Cit No 7707244 (rev CIP)

I


J


Biochemistry of cutaneous epidermal differentiation proceedings of the Japan-U. S. Seminar on Biochemistry of Cutaneous Epidermal Differentiation / edited by Makoto Seji and I. A. Berenstein — Baltimore University Park Press, c1977 xx, 514 p ill Seminar sponsored by the Japan Society for the Promotion of Science and the National Science Foundation of the United States

THE NLM TECHNICAL BULLETIN
FORMED BY THE UNION OF
THE LIBRARY NETWORK/MEDLARS TECHNICAL BULLETIN AND THE TOXLINE TECHNICAL BULLETIN
DECEMBER 1977 No. 104

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<tr>
<td>NEW PROCEDURES EMPLOYED BECAUSE OF CATALOGING POLICY CHANGES</td>
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<td>LIST OF MONOGRAPHS INDEXED - JANUARY 1978</td>
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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
National Institutes of Health
TECHNICAL NOTES

PLEASE QUERY THE ON LINE NEWS FILES DAILY AT NLM FOR SPECIAL NOTICES AND MESSAGES

Whenever applicable, the headings of each Technical Note will include a reference to the section/page of the NLM On-line Services Reference Manual which is considered most relevant to the item being discussed (e.g., Manual II-9). Users should keep in mind that the item may pertain to other sections of the Manual.

JOURNAL CITATION DATABASES

MEDLINE and SDILINE were updated with December 1977 citations on November 7 at NLM and SUNY. The sizes, Index Medicus date ranges and entry dates are given below:

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TOXLINE UPDATE - NOVEMBER 21, 1977

The TOXLINE file was updated November 21, 1977, with 10,023 records as follows:

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The update tag is 1177(ST). This brings the total number of documents in TOXLINE to 489,949.

NON-PRIME HOURS OF SERVICE, NLM AND SUNY

Non-prime hours have been extended to include 11:30 a.m. to 1:00 p.m. (ET) Monday through Friday at NLM and SUNY through the month of March 1978 on an experimental basis.

This publication, which is issued monthly, is not copyrighted and may be freely reproduced.
HOURS OF SERVICE, NLM AND SUNY

The On-Line Hours of Service at NLM and SUNY have been extended on an experimental basis until 9:00 p.m. through March 1978.

BACK75

The BACK75 file is available effective December 19, 1977.

CANCERLIT (MANUAL XV)

The CANCERLIT (previously called CANCERLINE) data base was regenerated on November 14, 1977. Changes made to the file are listed below:

1) "Book" is no longer a publication type (PT). If you wish to limit your retrieval to books, you must now type MONOGRAPH. All records previously indexed to BOOK have been re-indexed to MONOGRAPH.

2) Ranging on the publication year can now be done using the category qualifier (YP). In the past, direct searching was qualified with YP and ranging had to be qualified with YR. This is no longer the case.

3) A small number of CANCERLIT records had index terms in the Keyword (KW) field. These terms have been removed because so few records in the file had them. No index terms will go into the KW field until sometime in the future when controlled index terms will be used to index CANCERLIT records. A numeric string can be found in this field for many records. Please ignore the numbers as they are used only for document tracking purposes.

4) All records now carry a publication type (PT).

5) Many duplicate records, as well as other errors or problems identified by users have been corrected. Please continue to report errors found in CANCERLIT so that the quality of the file can continue to be improved.

6) Entering an unqualified 76 or 75, etc., when searching directly on publication year, will no longer result in a multi-meaning message. The pagination (PG) data element which caused this problem has been removed.

TYMNET NUMBERS (MANUAL II-9)

New Number:

Longview, TX 214/758-0801 C

Changes: From To

Lafayette, LA 318/235-3679 C 318/235-5202 C
Santa Barbara, CA 805/965-8010 C 805/966-3184 C
NEW PROCEDURES EMPLOYED BECAUSE OF CATALOGING POLICY CHANGES
Carolyn Davis, Cataloging Section, TSD, NLM

CATALOGING IN PUBLICATION (CIPS) IN PRINTED FORM

MLA subscribers to the NLM Weekly Proofs were notified in Weekly #24, June 17, 1977 of changes in processes regarding Cataloging-in-Publication (CIP) items. The changes are a result of NLM's attempt to become more consistent with MARC updating procedures for CIP material. Data for CIP's are entered into CATLINE before the work is published, and when the actual work is published, the original CIP record is revised. Previously, a new record was input and the CIP record was deleted. The revised CIP's will appear only in every fourth weekly - the index issue. The notation "Rev. CIP" contained in the Revision Indicator (RI) field will appear at the bottom of the citation as well as the usual asterisk (*) beside it. Because an updated CIP retains its original citation number, it will not be in the range of sequenced citation numbers found in the index. The revised citation will be found in the weekly accompanying the index. They will also appear in the quarterly and annual Current Catalog.

Occasionally, a work which is cataloged as a CIP, is found to be out of scope and/or coverage. These works will not be placed in NLM's collection and after receipt, records will not be updated bibliographically nor re-published. The original CIP citation, however, will be retained in CATLINE. In CATLINE The Call Number (CA) field will contain the phrase "Not Acquired."

CIP's IN NON-PRINTED FORM

Occasionally CIP's are cataloged as monographs in CATLINE but when the work is received, it is an audiovisual item. In such cases, the citation will be deleted from CATLINE, and the work will be processed for AVLINE.

Any item received for CIP cataloging which is identified as an audiovisual will not be processed for NLM CIP processing.

Monographs published separately and as part of a multi-media package may be cataloged in both CATLINE and AVLINE.

WITHDRAWN OR NOT ACQUIRED ITEMS

Citations will remain in CATLINE for items withdrawn from the NLM collection or for CIP items not acquired. The following symbols will appear in CATLINE in the Revision Indicator (RI) field. The citations will not be re-published in any NLM cumulations of the Current Catalog. The citations are being retained in CATLINE in order to provide current information on the non-availability of interlibrary loans for these items.
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**REvised Citations**

Items that have had major revisions to names, titles, imprint, series, main headings, call numbers, etc., will have "rev" in the RI field.

Items that have been completely recataloged according to current practice have "Recat" in the RI field. Both types of records will be re-published in the cumulations of the Current Catalog.

**NEW SERIALS ANNOUNCEMENT - NOVEMBER 1977**

Serial Records, Technical Services Division, NLM

The following substantive serial titles were received or ordered by the Serial Records Section. A plus (+) indicates that the title appears in Index Medicus. An asterisk (*) indicates that an issue has actually been received in the Library. PLEASE NOTE: NLM CANNOT FILL LOANS FOR TITLES WITHOUT THE ASTERISK (*). THEY HAVE NOT YET BEEN RECEIVED BY THE LIBRARY. The list is offered as an early announcement. Information provided is not authorized NLM cataloging data. For further information, contact Ms. Betsy Humphreys, 301/496-1276, Technical Services Division, NLM.

**Advances in Behavioral Pediatrics**
1, 1978--
JAI Press
Greenwich, Connecticut

**Advances in Law and Psychology**
1, 1977--
JAI Press
Greenwich, Connecticut

**Advances in Special Education**
1, 1978--
JAI Press
Greenwich, Connecticut

**Advances in Thanatology**
4, 1977--
MSS Information Corp.
Continues Journal of Thanatology
New York, New York

**Bulletin of the American Academy of Dermatology**
1, 1976--
American Academy of Dermatology
Detroit, Michigan

**Bulletin of Molecular Biology and Medicine**
1, 1976--
Idelson Science Publisher
Naples, Italy

**Cahiers d Hemobiologie-Transfusion**
1, 1976--
Centre d Hemobiologie-Transfusion
de l Hopital Saint-Louis
Paris, France
CASE STUDIES IN HEALTH ADMINISTRATION
1, 1978--
Mosby
St. Louis, Missouri

CELLULAR SENESCENCE AND SOMATIC
CELL GENETICS
1, 1977--
Plenum
New York, New York

+COMPARATIVE MEDICINE EAST AND WEST
5, 1977--
Science History Publications
Continues American Journal of
Chinese Medicine
New York, New York

EDUCATIONAL GERONTOLOGY
1, 1976--
Hemisphere Publishing Co.
Washington, DC

HEALTH CARE EDUCATION
6, 1977--
Health Care Publication
Continues In-Service Training
and Education
New York, New York

HEALTH AND MEDICAL CARE SERVICES
REVIEW
1, 1978--
Haworth Press
New York, New York

HEART AND CIRCULATION
1, 1977--
Marcel Dekker
New York, New York

INTERACTION
1, 1977--
Psychiatric Institutes of America
Washington, DC

JOURNAL OF BEHAVIOURAL ANALYSIS
AND MODIFICATION
2, 1977--
Urban and Schwarzenberg
Continues European Journal of
Behavioural Analysis and
Modification
Munich, Germany

JOURNAL OF CONTINUING EDUCATION
IN FAMILY MEDICINE
9, 1977--
Medical Digest Inc.
Continues Medical Digest
Northfield, Illinois

JOURNAL OF INTERNATIONAL PHYSICIANS
1, 1976--
Cherry Hill, New Jersey

JOURNAL OF PHARMACEUTICAL AND
MEDICAL SCIENCES
1, 1977--
Fred Atoki Publishing Company
Lagos, Nigeria

LABORATORY AND RESEARCH METHODS
IN BIOLOGY AND MEDICINE
1, 1977--
Alan R Liss
New York, New York

LAW AND HUMAN BEHAVIOR
1, 1977--
Plenum
New York, New York

+MICROBIOLOGICAL REVIEWS
42, 1978--
American Society for Microbiology
Continues Bacteriological Reviews
Birmingham, Alabama

*NEUROLOGIA EN COLOMBIA
1, 1977--
Fundacion Instituto
Neurologico de Colombia
Bogota, Colombia

NEUROSURGERY
1, 1977--
Williams and Wilkins
Baltimore, Maryland

PACE
1, 1978--
Futura Publishing Co.
Mount Kisco, New York

PHYSICAL FITNESS/SPORTS MEDICINE
1, 1978--
U.S. President's Council on
Physical Fitness and Sports
Washington, DC
*POPULATION REPORTS
  1, 1977--
  Population Information Program.
  George Washington Medical Center
  Issued by the Population Information Program. Called also:
  Population Reports Special Topics
  Washington, DC

PSIHJATRIJA DANAS
  8, 1976--
  Zavod za Mentalno Zdravlje
  Continued Analzi Zavoda za Mentalna
  Zdravlje
  Beograd, Yugoslavia

RESEARCH IN COMMUNITY AND
MENTAL HEALTH
  1, 1977--
  JAI Press
  Greenwich, Connecticut

RESEARCH IN THE INTERWEAVE OF
SOCIAL ROLES: WOMEN AND MEN
  1, 1978--
  JAI Press
  Greenwich, Connecticut

RESEARCH IN PUBLIC POLICY AND
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  1, 1977--
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  Greenwich, Connecticut

RESEARCH IN SOCIAL PROBLEMS
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  1, 1978--
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  Greenwich, Connecticut

*REVISTA DA AMMG
  29, 1977--
  Revista da Associacao de
  Minas Gerais
  Continued Revista da Associacao
  Medica de Minas Gerais
  Minas Gerais, Brazil

SALVE
  1, 1977--
  Corriere Della Sera
  Milan, Italy

SEXUALITY AND DISABILITY
  1, 1978--
  Human Sciences Press
  New York, New York

SOCIAL WORK WITH GROUPS
  1, 1978--
  Haworth Press
  New York, New York

*SRI LANKA JOURNAL OF SURGERY
  2, 1975--
  College of Surgeons of Sri Lanka
  Continued Ceylon Journal of
  Surgery
  Sri Lanka, Ceylon

WHOS WHO IN CHIROPRACTIC
INTERNATIONAL
  1, 1976/78--
  Who's Who in Chiropractic
  International Publishing Co.
  Littleton, Colorado
DECEMBER 1977

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F


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H


I

International Union of Pure and Applied Chemistry. Commission on Toxicology. V. Series


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- NLM, MEDLINE, Dec 13-17, 1976
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Office of the Associate Director for Library Operations
National Library of Medicine

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
National Institutes of Health
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