Continuing Medical Education at Henry Ford Hospital

Henry Ford Hospital is accredited by the American Medical Association and the Michigan State Medical Society. All courses listed below qualify for Category I AMA/PRA credit. A variety of special postgraduate courses and regularly scheduled departmental conferences are designed to meet the needs of the community physician as well as those practicing in specialty areas. Individual course brochures are mailed six to eight weeks before each program. Further information can be obtained from: Office of Medical Education, Henry Ford Hospital, 2799 W Grand Blvd, Detroit, MI 48202, (313) 876-1464.

1981 Postgraduate Courses

March 14, 1981
Renal Manifestations in Systemic Disease
The course will include familiarization with recent advances in the pathogenesis, diagnosis, and treatment of renal diseases. Particular emphasis will be placed on renal failure as a causative factor in systemic disease and on renal involvement as an important clinical component of systemic disease.
Audience: General and family physicians, internists
Course No: 35831

April 11, 1981
Conception and Misconception: Important Endocrine Problems Affecting Women
Primary care physicians are provided with useful, current information concerning the diagnosis and management of common endocrine gland disorders affecting women. Subjects to be covered include the syndrome of lactation-amenorrhea, problems of hirsutism or more extensive masculinization, diagnostic and therapeutic applications of the gonadotropin-releasing hormone, the management of diabetes in pregnancy, guidelines for the use of estrogen as therapy, the management of sexual dysfunction in women, and the clinical features and treatment of anorexia nervosa, including counseling and behavioral therapy. Also included will be the interpretation of hormone assays, physiologic tests, and applicable radiographic procedures.
Audience: Family practitioners, gynecologists, and internists
Course No: 35850

April 22-24, 1981
Symposium on Computerized Treatment Planning Systems
This program will provide participants with the necessary information for selecting appropriate treatment planning systems, based on patient load, available therapy units, supporting personnel, and cost. Also provided will be considerations in treatment planning necessary for precision therapy, requirements for system hardware and software, quality assurance guidelines, and existing dose calculation algorithms. Current needs and future directions in treatment planning will also be evaluated.
Audience: Radiation oncologists, medical physicists, computer scientists, dosimetrists, and manufacturers
Credit: 19.5 Hours, Category I
Fee: $150.00
For additional information, contact Dr. Farideh Bagne, (313) 876-3810.

May 9, 1981
Treatment of Upper Extremity Conditions and Injuries
The course includes identification, handling, treatment, and rehabilitation of upper extremity (shoulder to finger) injuries, with special emphasis on diagnosis of inflammatory conditions. Various treatment methods, including medications, electrical, and exercises will be explained. Handling of injuries amenable to treatment by primary care physicians, and familiarization with the latest techniques in handling severe injuries to facilitate referral to secondary or tertiary care facilities will also be covered. Most of the program will be devoted to emergency room and office procedures. Those procedures which require hospitalization will be alluded to but not expanded on.
Audience: General and family physicians, emergency medicine physicians, general surgeons
Course No: 35851

May 29-30, 1981
Neurology Update for Primary Care Physicians – III
The purpose of this annual course is to provide insight, review, and update on many common neurological problems encountered by the primary care physician. Topics to be covered are correct diagnosis and management of neurologic disorders, performing practical neurological examinations, and familiarization with new diagnostic procedures and their appropriate use.
Audience: All primary care physicians
Course No: 35820

June 10, 1981
Your Geriatric Patient: How Old is Too Old?
There is a growing population of elderly people and an increasing need for physicians skilled in solving their special problems. The course will include an overview of the special needs of the elderly in various disciplines of medicine, and organization of diagnostic and treatment efforts.
Audience: Family physicians, general practitioners, internists and general surgeons
Course No: 35852
June 4-5, 1981

Fine Needle Biopsy of the Thyroid

The main educational focus of the course will be for the pathologist who wishes to enhance his or her skills in the cytohistologic diagnosis of thyroid disease, using biopsy material from patients. A major attempt will be made to provide participants with a knowledge of the role of needle biopsy in the selection of candidates for thyroid lobectomy; with audiovisual instruction on techniques of the procedure; and with an opportunity to review the vast biopsy material for cytohistological diagnosis. In addition to specific diagnostic guidelines, the course will also provide reasonable knowledge of the errors and pitfalls encountered while gaining experience in this field.

Audience: Pathologists, endocrinologists, cytotechnologists, and senior residents (Limited enrollment for workshop).

Course No: 35838

Other programs tentatively scheduled for 1981 include:

May 2, 1981: Internal Fixation Workshop
October 10, 1981: Modern Psychiatry for the Practicing Physician
October 28-30, 1981: Internal Medicine Update

Tutorial Programs

Cardiology

The tutorial is designed to provide a clinical refresher course. Registration is limited to six physicians (MD and DO). In addition to informal rounds and discussions with the staff, seminars in related areas of interest will be held. A broad area of subject material will be discussed, including pharmacology of anti-arrhythmic agents, diuretics, hypertensive therapy, coronary angiography, and others. Reservations are required before the course. For more information, contact Dr. Sidney Goldstein at (313) 876-2727.

Audience: General practitioners, internists
Credit: 40 Hours, Category I
Fee: $300.00

Neurological Disease

This experience is an individually arranged tutorial designed to meet the needs of the primary care physician.

The program will include an opportunity to review neurologic disease assessment, the neurologic exam; the management of the patient with head, spine, and peripheral nerve trauma; back pain; diagnosis and management; headache evaluation; evaluation of skull and spine x-rays; differential diagnosis, management, and treatment of stroke syndrome; the comatose patient; neurological problems in practice, etc. There will be an opportunity to see common neurosurgical procedures and to learn how to place a burr hole. You will see neurologic problems on ward rounds and receive exposure to new advances in neurology and neurosurgery, including cerebral revascularization, transnasal hypophysectomy for pituitary tumors, peripheral nerve grafting, percutaneous procedures for tic and cordotomy. Evaluation and management of neurologic problems in the outpatient clinic can be obtained daily. Experience in other areas you desire will be arranged. Inquiries are welcome. The schedule and time can be arranged at your convenience; three to five days attendance would be optimal. For information and schedules, contact Dr. J. Ausman at (313) 876-2245.

Credit: Category I credit will be granted on an hour-for-hour basis.
Fee: $150.00

Pediatrics

This tutorial is designed to update the skill of the practicing pediatrician or family physician caring for children. The participant will attend inpatient rounds, scheduled didactic lectures, and staff teaching sessions. Time will be spent in the Department of Pediatrics as well as in pediatric subspecialty areas if desired. For more information and schedules, contact Dr. L. Weiss at (313) 876-3116.

Credit: 40 Hours, Category I
Fee: $200.00
Departmental Conferences and Seminars

The 34 conferences and seminars listed below are approved for Category I credit. These conferences are a convenient way to accrue the credit hours needed for relicensure in the state of Michigan.

**Allergy and Immunology Seminars**
This conference is designed to update practicing allergists and clinical immunologists in a wide variety of current topics. Recent discoveries relating to the diagnosis, understanding, and treatment of human immunological disorders are discussed.

Dr. J. Anderson  
(313) 876-2657  
Fridays, 8:30 to 10:00 a.m.  
Credit — 1½ Hours

**Anesthesiology Conference**
Participants will be provided with information on recent advances sufficient to improve their general level of performance. Also, those preparing for certification will find the information most helpful. The conference is planned primarily for anesthesiologists. Since useful information on policy and procedures may be involved, nurse anesthetists and rotating personnel are also encouraged to attend.

Dr. F. Cookinham  
(313) 876-2544  
Tuesdays, 7:00 to 8:00 a.m.  
Fridays, 7:00 to 8:00 a.m.  
Credit — 1 Hour

**Bone and Mineral Conference**
Selected cases of unusual or diagnostic and therapeutic problems in the fields of bone and mineral metabolism are discussed. In addition, diseases of a more common prevalence which have disturbances in bone and mineral metabolism are discussed. The conference is planned for practicing internists and other physicians who have an interest in metabolic bone disease and who treat patients with these problems.

Dr. B. Frame  
(313) 876-2373  
Wednesdays, 4:00 to 5:30 p.m.  
Credit — 1 Hour

**Chest Conference**
Early and accurate diagnosis of important chest diseases is emphasized in this weekly conference. The clinical, laboratory, and radiographic findings in multiple cases are presented. Once a month, a staff pathologist correlates gross and microscopic material with cases. Discussion following each presentation fosters an interdisciplinary approach to diagnosis and management. The conference is directed toward practicing physicians and residents in the areas of pulmonary medicine, thoracic surgery, and diagnostic radiology.

Dr. G. Beute  
(313) 876-1331  
Wednesdays, 4:30 to 5:30 p.m.  
Credit — 1 Hour

**Clinical Cardiology Conference**
A wide variety of topics in pathophysiologic, clinical, and therapeutic aspects of cardiac care are reviewed. Selected cases of common as well as unusual diagnostic and therapeutic problems are discussed. The conference is directed to an audience of internists, cardiologists, and residents.

Dr. F. Khaja  
(313) 876-2760  
Fridays, 8:15 to 9:15 a.m.  
Credit — 1 Hour

**Clinical Pathology Conference**
This conference allows the practicing physician an opportunity to update his/her knowledge on the diagnosis, management, and pathologic basis of varying disease entities. Illustrative cases are chosen by a committee of physicians representing numerous specialties. The clinical and pathologic aspects of the subject are reviewed by a selected discussant(s) with expertise in that area, followed by an informal question and answer period.

Dr. G. Fine  
(313) 876-2353  
Every other Friday, 12:00 Noon; September through May  
Credit — 1 Hour

**Community Clinical Neuroscience Conference**
Visiting scholars of the Department of Neurological Surgery and Neurology present a 20-30 minute lecture in an area of general interest at one conference each month. Materials are presented with photographs of gross and microscopic sections and with references to the most recent literature.

This conference offers a forum for the neurologists and neurosurgeons in this and the three adjoining counties to present interesting and instructive materials.

Dr. J. Ausman  
(313) 876-2245  
First Thursday, 7:00 to 8:30 a.m.; Third Wednesday, 5:00 to 7:00 p.m., September through June  
Credit — 1½ Hours

**Dermatology Grand Rounds**
Dermatology Grand Rounds is a weekly conference which focuses on patient diagnosis and therapy as well as specific conferences on clinical entities, basic sciences, and therapeutics. Participants examine and discuss previously unseen patients and formulate a plan of therapy. Objectives include the improvement of problem-solving and differential diagnosis, as well as updating the participants’ knowledge.

Dr. E. A. Krull  
(313) 876-2170  
Wednesdays, 8:00 to 10:00 a.m.  
Credit — 1½ Hours
Emergency Medicine Conference Series
Dr. J. Nowakowski
(313) 876-1552
Wednesdays, 7:00 a.m. to 10:00 a.m.
Credit — 3 Hours

Gastroenterology/Surgery/Radiology/Pathology
Grand Rounds
This conference provides a forum for four separate disciplines of medical science to share their mutual interests and problems. Two recent cases are selected for presentation, pertinent data are reviewed, and newer developments are discussed. The conference is intended for physicians interested in or practicing in these four fields of medicine.
Dr. S. K. Batra
(313) 876-2404
Tuesdays, 4:30 to 5:30 p.m.
Credit — 1 Hour

Hematology Pathology Conference
The objective of this conference is to review and update knowledge of clinical, laboratory, and therapeutic procedures relative to hematology, hemostasis, immunohematology, and related areas. The conference is designed to provide historic, current, theoretical, and investigative knowledge for physicians.
Dr. E. J. Van Slyck, (313) 876-2772
Dr. S. M. Saeed, (313) 876-1573
Wednesdays, 4:30 to 5:30 p.m.
Credit — 1 Hour

Hypertension Conference
The purpose of the conference is to provide a forum for review of diagnostic and treatment principles of hypertensive disease and their implementation. Participants will obtain knowledge of recently developed diagnostic methods and therapeutics of hypertension. They will receive a critique of their practice in hypertension as they discuss and present cases.
Dr. M. Wisgerhof
(313) 876-3468
First and Third Wednesdays, 4:30 to 5:30 p.m.
Credit — 1 Hour

Immunology Conference
This conference is designed as a concise overview and update of general and clinical immunology. The course is offered once a year beginning in September through December.
Dr. H. L. MacKechnie
(313) 876-2659
Wednesdays, beginning in September, 8:00 to 9:00 a.m.
Credit — 1 Hour

Infectious Disease/Microbiology Seminar
The Infectious Disease/Microbiology Seminar brings together the clinical skills of the internist specializing in infectious disease with the laboratory skills of the clinical microbiologists. Its purpose is to present current clinical infectious cases stressing both clinical and laboratory diagnosis, as well as management and current literature reviews of each subject. The audience includes staff and house officers from multiple disciplines where the cases presented are managed, including Internal Medicine, Pathology, Pediatrics, and Surgery.
Dr. E. Quinn
(313) 876-2565
Wednesdays, 8:00 to 9:00 a.m.
Credit — 1 Hour

Management Problems in Clinical Endocrinology
In this weekly conference the diagnostic features, disordered functions, and the methods of management of current patients with endocrine disease are discussed. Two patients are presented at each conference. Disorders of endocrine gland function are the subject of most programs, but patients with other conditions such as metabolic bone disease, diabetes mellitus, or other primary disorders which may affect endocrine function (e.g. uremia) are also discussed. The conference is geared to the needs of practicing internists and house officers in internal medicine.
Dr. R. Mellinger
(313) 876-2096
Tuesdays, 4:30 to 5:30 p.m.
Credit — 1 Hour

Medical Grand Rounds
Medical Grand Rounds is a weekly interdisciplinary conference designed to provide practicing physicians with a challenging review and update of information pertinent to the practice of internal medicine and its subspecialties. Periodically, the conference focuses on an interdepartmental topic or information from the basic laboratory which has a direct or potential influence on the quality of medical practice. The major focus involves the presentation of case material followed by a formal review of the subject with sufficient time for questions and answers. The conference is designed to be provocative and educational, based on the premise that medical practice is an aspect of human biology and a scientific field with a rapid turnover of ideas and knowledge. The importance of bedside technique and the application of improvement in understanding the natural history of disease, a knowledge of drug interactions and pharmacokinetics, and the application of newer technologies is continually emphasized.
Dr. T. Killip
(313) 876-1828
Thursdays, 8:00 to 9:00 a.m.
Credit — 1 Hour

Metabolism Conference
The objective of this weekly conference is to review, analyze, and call attention to the newer as well as the traditional aspects of diagnosis and management of diabetes, hypertension, hyperlipidemia, obesity, and related abnormalities. Other areas of internal medicine, surgery, and surgical subspecialties are also discussed as appropriate. We often use a selected patient’s problem as a case-in-point to start the discussion. Practicing internists and other health care professionals with an interest in these areas should attend.
Dr. F. Whitehouse
(313) 876-2131
Thursdays, 4:30 to 6:00 p.m.
Credit — 1 Hour
1981 CME Programs

Mini Grand Rounds
Selected clinical cases are presented followed by review of subject and discussion with appropriately invited subspecialist(s). The conference is planned for internists and house officers in internal medicine.

Dr. J. Rival
(313) 876-1895
Tuesdays, 8:00 to 9:00 a.m.
Credit — 1 Hour

Nephrology Seminar
The presentations deal with significant topics in the field of nephrology and hypertension. Physiology, pathology, clinical aspects and therapeutics of renal diseases, hemodialysis, transplantation, and hypertensive disorders are presented in the form of reviews of the literature. The audience includes staff and fellows in the Division of Nephrology, house staff, and all others inside and outside the institution interested in nephrology.

Dr. N. Levin
(313) 876-2711
Mondays, 4:30 to 5:30 p.m.
Credit — 1 Hour

Obstetrics and Gynecology Grand Rounds
This conference provides a contemporary update on management concepts of a wide variety of conditions involving obstetrics and gynecology. Visiting faculty with expertise in selected areas are scheduled approximately once a month in addition to selected departmental case presentations. The conference is designed for practicing obstetricians and gynecologists.

Dr. B. H. Drukker
(313) 876-2464
Thursdays, 2:30 to 4:00 p.m.
Credit — 1½ Hours

Oncology Seminar
These seminars are designed for staff oncologists and community physicians. The course concentrates on basic science and research problems and is planned to cover topics of current interest as well as general review. Guest speakers frequently present in-depth reviews in their related fields. There is a monthly patient care conference attended by staff of Medical Oncology and Therapeutic Radiology designed to discuss clinical applications of recent scientific advances.

Dr. R. Talley
(313) 876-1856
Fridays, 8:00 to 9:00 a.m.
Credit — 1 Hour

Ophthalmology Seminar
The Ophthalmology Seminar is designed to review timely subjects in ophthalmology and to present new ideas and techniques. The subjects are presented by members of the senior staff of the Department of Ophthalmology and by ophthalmologists from outside institutions. Physicians outside the field are also invited occasionally to present subjects strongly related to ophthalmology. The program is intended for the benefit of practicing ophthalmologists. Subjects presented are planned so that over a two-year period all areas of ophthalmology are included.

Dr. D. Carey
(313) 876-3239
Second and Fourth Thursdays, 6:00 to 7:30 p.m.
Credit — 1½ Hours

Orthopaedic Conference
This conference is designed to present programs which will help keep the practicing physician cognizant of advances in the care of diseases of the musculoskeletal system. Lectures will be presented by visiting professors and members of the Henry Ford Hospital staff.

Dr. E. Guise
(313) 876-2188
Saturdays, 8:30 to 11:30 a.m.
Credit — 3 Hours

Otology Conference
This conference addresses the theoretical and practical application in understanding, treating, and dealing with patients who possess communicative disorders. A continued review of pre- and post-operative skills and awareness of ongoing research advances will be emphasized.

Dr. H. George Levy
(313) 876-3277
Alternate Wednesdays, 12:00 Noon to 1:00 p.m.
Credit — 1 Hour

Pediatric Grand Rounds
This conference involves the presentation of two selected cases currently in the pediatric ward. A clinical discussion of the cases follows, along with pertinent literature review. At the end of the hour there is usually a question and answer period.
Practicing pediatricians and primary care physicians are exposed to a wide variety of clinical material and are updated on management techniques.

Dr. L. Weiss
(313) 876-3116
Mondays, 8:00 to 9:00 a.m.
Credit — 1 Hour

Pediatric Tumor Board
Dr. R. P. Warrier
(313) 876-3132
First Thursday of each month
4:00 to 5:00 p.m.
Credit — 1 Hour
Psychiatry Conference
Continuing education in relevant areas of psychiatry and neuropsychiatry is provided for physicians and other professionals in this field. Formal presentations by distinguished local professionals and those of national acclaim afford participants an opportunity to learn the most recent empirical findings and theoretical issues in modern psychiatry.
Dr. D. Blumer
(313) 876-2516
Fridays, 11:00 to 12:30 p.m., September through June
Credit — 1½ Hours

Surgery Grand Rounds
This conference is designed to provide an ongoing update for practicing surgeons. A variety of subjects is covered related to diseases which are managed surgically. There is a review of surgical morbidity and mortality experiences, selected case presentations, as well as some research efforts underway in our institution.
Dr. M. Ansari
(313) 876-3164
Saturdays, 8:00 to 9:00 a.m., September through May
Once monthly, June through August
Credit — 1 Hour

Seminars in Computerized Tomography
This seminar is designed to improve CT scan technically, relate scanning to applicable clinical situations, improve early and accurate diagnosis, and improve patient management. Participants displaying a scan will describe his/her technique and act as moderator in a discussion of diagnostic possibilities. Some of the topics to be discussed will be physics of CT scan, technical innovations, diagnosis of lesions involving thorax, GI, GU, neck and musculoskeletal systems.
Dr. M. Sandler
(313) 876-1388
Second Wednesday of the month, every other month
September through May (call for time schedule)

Seminars in Pulmonary Medicine
A broad spectrum of clinical and laboratory problems in pulmonary medicine will be covered. Four sessions monthly address topics on pulmonary physiology, bronchoscopy, intensive care medicine, and cases seen by the consultation service. The remaining sessions are clinically oriented with emphasis on guest speakers. The audience for this conference is internists and pulmonary medicine physicians.
Dr. G. Bower
(313) 876-2432
Wednesdays, 8:00 to 9:00 a.m., Fridays, 8:00 to 9:00 a.m.
Credit — 1 Hour

Surgical Pathology Conference
Selected slides of the week are reviewed with a discussion of the differential diagnosis, clinical course, and other pertinent data. It is attended by the anatomic pathology staff and residents. Brief records are kept of the diagnoses of the cases discussed.
Drs. G. Fine and J. Ohorodnik
(313) 876-2356
Thursdays, 5:00 to 6:00 p.m.
Credit — 1 Hour

Tumor Conference
The objective of the Tumor Conference is to offer instruction in the management of patients with neoplasia, to review the natural history of the disease in question and the complications of such, and to discuss appropriate therapeutic measures. The conference will be held on March 12 and April 30, 1981.
Dr. R. Brownlee
(313) 876-1854
Every third Friday, 12:15 to 1:15 p.m., October through May
Credit — 1 Hour
The Editorial Board of the Henry Ford Hospital Medical Journal welcomes papers for review and possible publication from alumni, any former or current staff member of Henry Ford Hospital, and any participants in HFH academic and scientific activities. The Journal is listed by Index Medicus and is intended to be a broad scientific forum for all areas of interest: clinical, research, technical, administrative, patient care delivery. Papers are invited on a wide range of topics: review articles, research studies, case reports, philosophical discussions and theses, abstracts of staff publications in other journals.

Style of writing should be consistent with good English usage: clear, succinct, and correct. Papers accepted for publication are subject to editing and revision, if needed, with the author's approval. One hundred reprints will be made available without charge to the first author of each paper published. Reasonable requests for additional reprints made when the paper has been accepted will be honored if possible.

All papers submitted to the Journal should follow the guidelines described in the "Uniform Requirements for Manuscripts Submitted to Biomedical Journals," which is reprinted below in condensed form. With the first issue of 1980, the Henry Ford Hospital Medical Journal will adopt these requirements as the standard to be used for all submitted manuscripts.

Uniform Requirements for Manuscripts Submitted to Biomedical Journals*

Summary of Requirements
Type manuscript double spaced, including title page, abstract, text, acknowledgments, references, tables, and legends.

Each manuscript component should begin on a new page, in this sequence:
- Title page
- Abstract and key words
- Text
- Acknowledgments
- References
- Tables: each table, complete with title and footnotes, on a separate page
- Legends for illustrations

Illustrations must be good quality, unmounted glossy prints usually 12.7 by 17.3 cm (5 by 7 in) but no larger than 20.3 by 25.4 cm (8 by 10 in).

Submit the required number of copies of manuscript and figures (see journal's instructions) in heavy-paper envelopes. Submitted manuscript should be accompanied by covering letter, as described under "Submission of Manuscripts," and permissions to reproduce previously published materials or to use illustrations that may identify subjects.

Follow journal's instructions for transfer of copyright. Authors should keep copies of everything submitted.

Manuscript Preparation
Type manuscript on white bond paper, 20.3 by 26.7 cm or 21.6 by 27.9 cm (8 by 10½ in or 8½ by 11 in) or ISO A4 (212 by 297 mm) with margins of at least 2.5 cm (1 in). Use double spacing throughout, including title page, abstract, text, acknowledgments, references, tables, and legends for illustrations. Begin each of the following sections on separate pages: title page, abstract and key words, text, acknowledgments, references, individual tables, and legends. Number pages consecutively, beginning with the title page. Type the page number in the upper right-hand corner of each page.

Manuscripts will be reviewed for possible publication with the understanding that they are being submitted to one journal at a time and have not been published, simultaneously submitted, or already accepted for publication elsewhere. This does not preclude consideration of a manuscript that has been rejected by another journal or of a complete report that follows publication of preliminary findings elsewhere, usually in the form of an abstract. Copies of any possibly duplicative published material should be submitted with the manuscript that is being sent for consideration.

Title Page
The title page should contain: 1) the title of the article, which should be concise but informative; 2) a short running head or footnote of no more than 40 characters (count letters and spaces) placed at the foot of the title page and identified; 3) first name, middle initial, and last name of each author, with highest academic degree(s); 4) name of department(s) and institution(s) to which the work should be attributed; 5) disclaimers, if any; 6) name and address of author responsible for correspondence about the manuscript; 7) name and address of author to whom requests for reprints should be addressed, or statement that reprints will not be available from the author; 8) the source(s) of support in the form of grants, equipment, drugs, or all of these.

Abstract and Key Words
The second page should carry an abstract of not more than 150 words. The abstract should state the purposes of the study or investigation, basic procedures (study subjects or experimental animals and observational and analytic methods), main findings (give specific data and their statistical significance, if possible), and the principal conclusions. Emphasize new and important aspects of the study or observations. Use only approved abbreviations.

Key (indexing) terms: Below the abstract provide and identify as such, three to 10 key words or short phrases that will assist indexers in cross-indexing your article and that may be published with the abstract. Use terms from the Medical Subject Headings list from Index Medicus whenever possible.

Text
The text of observational and experimental articles is usually—but not necessarily—divided into sections with the headings Introduction, Methods, Results, and Discussion. Long articles may need subheadings within some sections to clarify their content, especially the Results and Discussion sections. Other types of articles such as case reports, reviews, and editorials are likely to need other formats, and authors should consult individual journals for further guidance.

Introduction: Clearly state the purpose of the article. Summarize the rationale for the study or observation. Give only strictly pertinent references, and do not review the subject extensively.

Methods: Describe your selection of the observational or experimental subjects (patients or experimental animals, including controls) clearly. Identify the methods, apparatus (manufacturer's name and address in parenthesis), and procedures in sufficient detail to allow other workers to reproduce the results. Give references to established methods, including statistical methods; provide references and brief descriptions of methods that have been published but are not well known; describe new or substantially modified methods, give reasons for using them, and evaluate their limitations.

When reporting experiments on human subjects, indicate whether the procedures followed were in accord with the ethical standards of the Committee on Human Experimentation of the institution in which the experiments were done or in accord with Helsinki Declaration of 1975. When reporting experiments on animal subjects, indicate whether the institution's or the National Research Council's guide for the care and use of laboratory animals was followed. Identify precisely all drugs and chemicals used, including generic name(s), dosage(s), and route(s) of administration. Do not use patients' names, initials, or hospital numbers.

Include numbers of observations and the statistical significance of the findings when appropriate. Detailed statistical analyses, mathematical derivations, and the like may sometimes be suitably presented in the form of one or more appendices.

Results: Present your results in logical sequence in the text, tables, and illustrations. Do not repeat in the text all the data in the tables and/or illustrations: emphasize or summarize only important observations.

Discussion: Emphasize the new and important aspects of the study and conclusions that follow from them. Do not repeat in detail data given in the Results section. Include in the Discussion the implications of the findings and their limitations and relate the observations to other relevant studies. Link the conclusions with the goals of the study but avoid unqualified statements and conclusions not completely supported by your data. Avoid claiming priority and alluding to work that has not been completed. State new hypotheses when warranted, but clearly label them as such. Recommendations, when appropriate, may be included.

Acknowledgments
Acknowledge only persons who have made substantive contributions to the study. Authors are responsible for obtaining written permission from everyone acknowledged by name because readers may infer their endorsement of the data and conclusions.

References
Number references consecutively in the order in which they are first mentioned in the text. Identify references in text, tables, and legends by Arabic numerals (in parenthesis). References cited only in tables or in legends to figures should be numbered in accordance with a sequence estab-
lished by the first identification in the text of the particular table or illustration.

Use the form of references adopted by the U.S. National Library of Medicine and used in Index Medicus. Use the style of the examples cited at the end of this section, which have been approved by the National Library of Medicine.

The titles of journals should be abbreviated according to the style used in Index Medicus. A list of abbreviated names of frequently cited journals is given near the end of this document; for others, consult the “List of Journals Indexed,” printed annually in the January issue of Index Medicus.

Try to avoid using abstracts as references; “unpublished observations” and “personal communications” may not be used as references, although references to written, not verbal, communications may be inserted (in parenthesis) in the text. Include among the references manuscripts accepted but not yet published; designate the journal followed by “in press” (in parenthesis). Information from manuscripts submitted but not yet accepted should be cited in the text as “unpublished observations” (in parenthesis).

The references must be verified by the author(s) against the original documents.

Examples of correct forms of references are given below.

**Journal**

1. Standard Journal Article (List all authors when six or less; when seven or more, list only first three and add et al.)

2. Corporate Author

3. Personal Author(s)

4. Corporate Author

5. Editor, Compiler, Chairman as Author

6. Chapter in Book

7. Agency Publication

**Other Articles**

8. Newspaper Article

9. Magazine Article

**Tables**

Type each table on a separate sheet; remember to double space. Do not submit tables as photographs. Number tables consecutively and supply a brief title for each. Give each column a short or abbreviated heading. Place explanatory matter in footnotes, not in the heading. Explain in footnotes all nonstandard abbreviations that are used in each table. For footnotes, use the following symbols in this sequence: *, †, ‡, §, ¶, ‡‡, ‡‡‡... Identify statistical measures of variations such as SD and SEM.

Omit internal horizontal and vertical rules.

Cite each table in the text in consecutive order.

If you use data from another published or unpublished source, obtain permission and acknowledge fully.

Having too many tables in relation to the length of the text may produce difficulties in the layout of pages. Examine issues of the journal to which you plan to submit your manuscript to estimate how many tables to use per 1000 words of text.

**Illustrations**

Submit the required number of complete sets of figures. Figures should be professionally drawn and photographed; freehand or typewritten lettering is unacceptable. Instead of original drawings, roentgenograms, and other material, send sharp, glossy black-and-white photographic prints, usually 12.7 by 17.3 cm (5 by 7 in) but no larger than 20.3 by 25.4 cm (8 by 10 in). Letters, numbers, and symbols should be clear and even throughout, and of sufficient size that when reduced for publication each item will still be legible. Titles and detailed explanations belong in the legends for illustrations, not on the illustrations themselves.
Advice to Authors

Each figure should have a label pasted on its back indicating the number of the figure, the names of the authors, and the top of the figure. Do not write on the back of the figures or mount them on cardboard, or scratch or mar them using paper clips. Do not bend figures.

Photomicrographs must have internal scale markers. Symbols, arrows, or letters used in the photomicrographs should contrast with the background.

If photographs of persons are used, either the subjects must not be identifiable or their pictures must be accompanied by written permission to use the photograph.

Cite each figure in the text in consecutive order. If a figure has been published, acknowledge the original source and submit written permission from the copyright holder to reproduce the material. Permission is required, regardless of authorship or publisher except for documents in the public domain.

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Acute granulocytic leukemia

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Adult respiratory distress syndrome
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Variable association

Vidarabine

Vitamin D

Warren shunt

Zeiss fundus camera