Now available...

Basic Hematology

By Edward L. Amorosi, M.D.
Instructor, Department of Medicine
New York University School of Medicine

Another of MEDCOM's FAMOUS TEACHINGS IN MODERN MEDICINE®

This learning system correlates microscopic findings of peripheral blood or aspirated marrow particles with hematological disorders and diseases. The more than a hundred 35mm slides (all in full color) were assembled from the teaching slide collections of Dr. Amorosi.

In addition to the slides, you receive a small slide viewer, and a booklet, written by the author, providing detailed descriptions for each slide.

Among the major subject areas: Bone marrow examination, erythrocytes, leukocytes, granulocytes, lymphocytes, abnormal peripheral blood films and bone marrows, and other disorders.

A practical teaching tool. Excellent for practicing physicians, hematologists, residents, medical students, and laboratory technicians.

Mail the coupon today
MEDCOM, Inc., 280 Park Avenue, New York, N.Y. 10017
World leader in multimedia medical education systems
PHYSIOLOGY OF THE HUMAN KIDNEY

BY LAURENCE G. WESSON, JR.
Professor of Medicine and Head of the Division of Nephrology, The Jefferson Medical College of Philadelphia

As reviewed in the J.A.M.A.:

"Dr. Wesson has written a lucid, detailed, reference textbook . . . for the investigator, or the physician or student seeking depth in renal physiology, this is a superb source of references. Dr. Wesson wrote 28 of the 30 chapters, a remarkable achievement. He presents a comprehensive synthesis of the literature, covering a broad range of topics including renal anatomy, metabolism, hemodynamics, tubular transport, and the renal control of water and electrolytes. Dr. Wesson guides the reader through the controversial aspects of renal physiology with a firm hand and achieves balance by broad review of the available literature. Explanatory footnotes are used to good advantage. The book represents a rich supply of information. I recommend it to the advanced student of renal physiology as an outstanding up-to-date reference textbook."

736 pages 94 illus. $34.00

GRUNE & STRATTON, INC.
757 THIRD AVENUE, NEW YORK CITY 10017
SELECTED READING

Diagnostic Cell Pathology in Tissue and Smears
By Herbert E. Nieburgs. "This meticulous work draws from the author's vast experience in clinical cytopathology. The photomicrographs are superb and convey the author's concepts very brilliantly."—J.A.M.A. (310 pp., 556 illus., $18.50)

Gas Chromatography in Industry and Medicine
Edited by Henry S. Kroman and Sheldon S. Bender. "... an excellent introduction for the novice in the field as well as a useful review for the seasoned practitioner"—Med. Tribune (320 pp., 184 illus., $20.50)

The Skin
2nd Edition. By Arthur C. Allen. "Allen is a recognized authority in this field, and it is gratifying to see such a monographic dissertation. It is recommended to all who wish to augment their knowledge of cutaneous medicine."—Annals Int. Med. (1192 pp., 2362 illus., $52.50)

The Pharmacology of Inflammation
By W. G. Spector and D. A. Willoughby. "Clearly written, profusely illustrated... this is a significant monograph which is highly recommended."—Arch. Int. Med. (118 pp., 78 illus., $5.00)

GRUNE & STRATTON
757 Third Avenue, N.Y.C. 10017

Investigate your expanding role in modern cancer therapy!

A New Book! Harris-Sinkovics

THE IMMUNOLOGY OF MALIGNANT DISEASE

For an up-to-date survey of human immunologic reaction to clinical cancer, turn to this compact new report! Blending hospital data with laboratory research, this book demonstrates man's normal immune response and its disintegration in malignancy, as well as future possible treatment methods for human cancer. This book also examines cancer chemotherapy and the immunosuppressive effects of these drugs. Quick-reference aids include a table that summarizes antibiotic management of infectious diseases in acute leukemia. A relevant account describes the application of immunosuppression to non-neoplastic disorders and organ transplantation. The final section explores immunotherapeutic treatment methods for specific human malignancies.

By JULES E. HARRIS, M.D., F.R.C.P.(C), F.A.C.P., Assistant Professor of Medicine, University of Ottawa, Canada; and JOSEPH G. SINKOVICS, M.D., F.A.C.P., Associate Professor of Medicine and Chief, Section of Clinical Tumor Virology and Immunology, Department of Medicine, University of Texas, M. D. Anderson Hospital and Tumor Institute, Houston, Tex. September, 1970. Approx. 192 pages. 6¼" x 9¾", 9 illustrations. About $13.00.

MOSBY TIMES MIRROR
THE C.V. MOSBY COMPANY
3207 WASHINGTON BLVD.
ST. LOUIS, MISSOURI 63103
THE ANATOMY OF THE DEVELOPING LUNG

Edited by JOHN EMERY

Anatomical studies of the lung are extremely difficult undertakings. It is not an organ that lends itself to secluded study in an anatomy laboratory, but necessarily must be investigated by workers in close contact with the living or newly-dead specimen. Appropriately therefore, most of the chapters in this book are written by pediatricians or pathologists.

"... the editor, with 10 other contributors, gives an excellent review of the anatomy of the developing lung... This book should be read by all who are concerned with the later stages of human development and with perinatal and immediate postnatal paediatrics. The editor in his introduction hopes 'that this book will hasten the time when a true correlation of the physiological and anatomical data can be made.' In this book an advance has definitely been made in this field. The book can be recommended without reservation."—BRITISH MED. J.


(223 pp., Illus., $7.00)

GRUNE & STRATTON
757 Third Ave., N.Y.C. 10017
Instructions for Contributors

General Information
Papers are accepted for consideration on the condition that they are contributed solely to this journal. Papers reporting human experimentation will be reviewed in accordance with the precepts established in the Helsinki Declaration. Copies of this declaration may be obtained by writing to the American Medical Association, 535 North Dearborn Street, Chicago, Illinois. Manuscripts and all communications concerning editorial matters should be addressed to Frederick Stohlman, Jr., M.D., St. Elizabeth's Hospital, 736 Cambridge Street, Brighton, Massachusetts 02135.

Manuscripts
Manuscripts must be typewritten, in good English, double or triple-spaced on good quality paper with margins of at least one inch. The original and one complete copy of the manuscript must be submitted.

First Page
The first page of the manuscript should contain the following information:
1. Title of the paper
2. Authors' names
3. Authors' affiliations
4. Name of the institution in which the work was done
5. Acknowledgments for research support which the authors wish to have published.
6. Name and address of the authors to whom communications regarding the manuscript should be directed.

Abstract
The second page should contain an abstract which, in general, should be less than 200 words. The abstract should summarize the reason for the study, the methods used, the results, and the major conclusions. Do not include a summary at the end of the paper.

The remainder of the manuscript should be written as concisely as possible. Only essential references should be cited.

Tables and Illustrations
Tables and illustrations should be critically evaluated so that information contained therein is not duplicated. Only those which are essential for a clear presentation of the data should be included.

Each table should be typed on a separate sheet and appropriately numbered. Legends should be typed on the same sheets as the tables.

Diagrams, charts and other line drawings should be submitted as glossy, black-and-white photographs. These must be submitted in duplicate, but clearly legible copies may be used with the duplicate manuscript. Lettering, symbols, lines, and strippling must be clear and distinct, and the effect of possible reduction in size to fit the printed page should be considered. Each figure must be identified by number and author's name written lightly with pencil on the back, and the top of the illustration should be indicated.

Photomicrographs and other photographic illustrations must be submitted in duplicate; copies are not acceptable.

Legends for illustrations should be typewritten, double-spaced on a separate sheet.

Tables in excess of one and one-half printed pages total will be charged for at approximately $30.00 per page, depending upon the type of material. Illustrations in excess of four are charged for at $10.00 each. The cost of colored illustrations in both articles and reprints must be borne by the contributor, and an estimate of such cost will be provided by the publisher after acceptance of the material.

References
References should be compiled numerically according to the order of citation in the text. They should be typewritten, double-spaced under the heading REFERENCES. See examples below. Note use of the paragraph indentation. Do not underline or use all capitals. Use initials for the names of cited authors rather than full first names. The abbreviation, "et al.,” is permitted in text but not in lists of references.

Abbreviations for titles of medical periodicals should conform to those used in Index Medicus. (A “list of Journals Indexed in Index Medicus”—with abbreviations—is obtainable from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, at a modest charge.) Note that BLOOD uses periods for such abbreviations. Abbreviate publishers' names by elimination of their initials and such designations as "Company, Inc., Bros., Ltd.”

If the original language of a foreign-language title uses other than the Roman alphabet, give the title in English, followed by a parenthetical note—e.g. (in Russian). Other foreign-language titles should be given in the original language.

In the examples below note the order of material, style of punctuation, the different use of capital letters for book and journal literature, and the use of Ed. (editor) and ed. (edition).

(Continued on reverse side)
Before submitting the final draft, check the numbering and spelling of authors' names in the list of References against the form used in the text.

Examples

BOOK (cite the exact page only if necessary; note handling of "edition"):

JOURNAL ARTICLE (cite only first page of article, not inclusive pages):

CONTRIBUTION TO BOOK (note handling of "Editors" and "Volume"):

Proofreading

Contributors are provided with galley proofs and are asked to proofread them for typesetting errors. Important changes in data are allowed within reason without cost, but excessive alterations and additions must be charged to the contributor.

Letters to the Editor

Letters to the Editor are welcomed and will be published if appropriate. They should be typewritten double-spaced and, generally, should not be more than 2 typewritten pages in length.

Announcements

Announcements of meetings, conferences and the like which are of interest to the readership of Blood should be sent to the Editor at least 8 weeks before the first day of the month of issue. These items should be as concise as possible.

---

### Index to Advertisers

November 1970

<table>
<thead>
<tr>
<th>Abbott Laboratories</th>
<th>Hemopoietic Cellular Proliferation, Stohlman</th>
<th>xiv</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biodeissenschaft GMBH</td>
<td>Morphology of the Blood, Silver</td>
<td>xxxv</td>
</tr>
<tr>
<td>Biologix Inc.</td>
<td>Liquid Scintillation Counting, Bransome</td>
<td>xxviii</td>
</tr>
<tr>
<td>Burroughs Wellcome Co. (U.S.A.) Inc.</td>
<td>Physiology of the Human Kidney, Wesson</td>
<td>xlviii</td>
</tr>
<tr>
<td>Cincinnati Sub Zero Products, Inc.</td>
<td>Diagnostic Cell Pathology in Tissue and Smears, Niebuhrs</td>
<td>xlix</td>
</tr>
<tr>
<td>Cry-O-Cell</td>
<td>The Anatomy of the Developing Lung, Emery</td>
<td>li</td>
</tr>
<tr>
<td>Coulter Electronics, Inc.</td>
<td>Clinical Endocrinology, Astwood and Cassidy</td>
<td>liii</td>
</tr>
<tr>
<td>Konyne</td>
<td>Harris Mfg. Co. Inc.</td>
<td>liv</td>
</tr>
<tr>
<td>Dade Division American Hospital Supply Corp.</td>
<td>Lo Temp</td>
<td>li</td>
</tr>
<tr>
<td>Diaco Laboratories</td>
<td>Kalmedic Instruments, Inc.</td>
<td>xli</td>
</tr>
<tr>
<td>Biologix Inc.</td>
<td>Fragiligraph</td>
<td>liv</td>
</tr>
<tr>
<td>Erie Scientific Corporation</td>
<td>E. Leitz, Inc. (Scientific Div.)</td>
<td>xlix</td>
</tr>
<tr>
<td>Microscope slides/Micro cover glasses</td>
<td>Dialux Laboratory Microscope</td>
<td>xxxix</td>
</tr>
<tr>
<td>Fenwal Laboratories</td>
<td>McGaw Laboratories</td>
<td>xxxii-xxxiii</td>
</tr>
<tr>
<td>Integral Pilot Tube</td>
<td>Blood Bag</td>
<td>xxxii-xxxiii</td>
</tr>
<tr>
<td>Fisher Scientific Company</td>
<td>Medcom, Inc.</td>
<td>xxxii-xxxiii</td>
</tr>
<tr>
<td>Autocytometer II</td>
<td>Learning Systems</td>
<td>xlii</td>
</tr>
<tr>
<td>General Science Corp.</td>
<td>Metrix Clinical &amp; Diagnostic Div.</td>
<td>xix-xxii</td>
</tr>
<tr>
<td>Haema-Count MK-4 System</td>
<td>The C. V. Mosby Company</td>
<td>xlix</td>
</tr>
<tr>
<td>Grune &amp; Stratton, Inc.</td>
<td>The Immunology of Malignant Disease</td>
<td>xlix</td>
</tr>
<tr>
<td>Osteoporosis, Barzel</td>
<td>Ortho Diagnostics</td>
<td>4th Cover</td>
</tr>
<tr>
<td></td>
<td>Ivan Sorvell, Inc.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RC-3</td>
<td>3rd Cover</td>
</tr>
<tr>
<td></td>
<td>Technicon Corporation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hemolab</td>
<td>xii-xiii</td>
</tr>
</tbody>
</table>
Clinical Endocrinology

Volume II

Edited by Edwin B. Astwood and Carl E. Cassidy.

“The strength of the book lies in the excellence of the many contributors. It would be hard to imagine a book with more outstanding people in a field discussing the particular topics of their interest . . .”—Amer. J. Med. Sci. “This book is a delight.”—J.A.M.A.

864 Pages, 230 Illus., $32.00

GRUNE & STRATTON, INC., 757 Third Avenue, N.Y.C. 10017
DON'T READ THIS AD
(If you're not interested in RBC or WBC
osmotic fragility or Platelet Aggregation)

In just 3½ minutes, the Fragiligraph records and measures the fragility of erythrocytes.
In just 7 minutes, the Fragiligraph records and measures the fragility of leukocytes.
Additionally, an adaptor is being made available which determines platelet aggregation—
eliminating the need for a separate costly instrument for this procedure alone.
All completely automatic, all measured in minutes, all read at a glance. And all in one instrument, the Fragiligraph.

In present use at an impressive array of clinical and research centers, the Fragiligraph is now recognized as a valued adjunct in such broad spectrum areas as: Blood Preservation and Survival, Pediatrics, Oncology; Radiation, Pressurization, Kidney Dialysis; Mechanical Trauma and Toxicological Studies, among others.

For elaborated details on the above, write to us and receive all 35 of the published current literature.

Unless you're not interested in rapid automated tests for RBC or WBC osmotic fragility. Or platelet aggregation. And haven't read this ad.

KALMEDIC INSTRUMENTS, INC.
SUBSIDIARY OF KALVEK, INC.
429 PARK AVENUE NEW YORK CITY 10022

Reasonably priced!

Stumped by journal name, each holds—

Blood: 1 vol., 6 issues
Metabolism: 1 vol., 12 issues
Journal of Pediatric Surgery: 2 vols., 12 issues

NOW, your journals can become an attractive permanent part of your professional library. These famous Jesse Jones volume files, especially designed to keep your copies orderly, readily accessible for future reference—guard against soiling, tearing, wear or misplacement of copies.
These durable files will support 150 lbs. Looks and feels like leather and is washable. The 23-carat gold lettering makes it a fit companion for the most costly binding.
Only $3.50 ea.; 3 for $10.00; 6 for $19.00 P.P.D. Satisfaction unconditionally guaranteed or your money back. (U.S.A. orders only. Enclose check and avoid billing charges.)

JESSE JONES BOX CORP. (Since 1843)
Department HS—Philadelphia, Penna. 19141

The blood test.
LoTemp freezers pass with highest grades.

Harris LoTemp freezers are the safest, most reliable storage freezers for your precious blood supply. Designed specifically for the special requirements of blood storage. Chest type and upright models in many sizes. Temperatures down to —100°C. Exclusive fail-safe dual cascade refrigeration system. Cost less than dry-ice or liquid nitrogen systems.

Write or call for literature. Or ask us in to discuss your specialized needs. Come to Harris for more low temperature know-how than from any other source.

Harris Mfg. Co., Inc.
308 River Street
Cambridge, Mass. 02139

LoTemp
Preparing Packed Cells?

Demand the capacity and performance of the Sorvall RC-3

The big, new, fast 4 x 1,000 ml HG-41 Swinging Bucket Rotor offers more speed and capacity than any competitive rotor.

The RC-3 — to 5,250 rpm - 7,120 x g — gives you the right speeds, the right rotors and the right performance for all your blood bank work. One feature alone is enough to make the RC-3 superior to competitive models — Gyro-Action Direct Drive. This patented SORVALL advantage permits a high degree of imbalance in rotor compartment loading. It takes the worry out of centrifuging blood bags. For any blood component therapy processing, specify (demand) the RC-3. In the meantime, ask us for all the details that make the RC-3 the superior refrigerated blood bank centrifuge.

Ivan Sorvall, Inc.
Norwalk, Connecticut 06856
extensive quality through intensive research