

The YEAR BOOK of

Medicine^s

1984

Edited by

DAVID E. ROGERS, M.D.

ROGER M. DES PREZ, M.D.

MARTIN J. CLINE, M.D.

EUGENE BRAUNWALD, M.D.

NORTON J. GREENBERGER, M.D.

PHILIP K. BONDY, M.D.

FRANKLIN H. EPSTEIN, M.D.

STEPHEN E. MALAWISTA, M.D.

The YEAR BOOK of

Medicine[®]

1984

Edited by

DAVID E. ROGERS, M.D.

ROGER M. DES PREZ, M.D.

MARTIN J. CLINE, M.D.

EUGENE BRAUNWALD, M.D.

NORTON J. GREENBERGER, M.D.

PHILIP K. BONDY, M.D.

FRANKLIN H. EPSTEIN, M.D.

STEPHEN E. MALAWISTA, M.D.

YEAR BOOK MEDICAL PUBLISHERS, INC.
CHICAGO

Copyright © June 1984 by YEAR BOOK MEDICAL PUBLISHERS, INC.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission from the publishers.

Printed in U.S.A.

International Standard Book Number: 0-8151-7314-8

International Standard Serial Number--0084-3873

The editor for this book was Joan David, and the production manager was H. E. Nielsen

Table of Contents

The material covered in this volume represents literature reviewed up to August 1983.

Journals Represented	9
Infections , edited by DAVID E. ROGERS, M.D., <i>President, The Robert Wood Johnson Foundation, Princeton, New Jersey; Professor of Medicine, Cornell University Medical College; Clinical Professor of Medicine, University of Medicine and Dentistry of New Jersey-Rutgers</i>	
	11
Introduction	13
1. SOCIAL CHANGE AND INFECTION	15
2. PNEUMOCOCCAL INFECTIONS	23
3. STAPHYLOCOCCAL INFECTIONS	27
4. URINARY TRACT INFECTIONS	31
5. NOSOCOMIAL INFECTIONS	37
6. SEXUALLY TRANSMITTED INFECTIONS	47
7. FUNGAL INFECTIONS	49
8. VIRAL INFECTIONS	53
9. THERAPY	61
10. MISCELLANEOUS	73
The Chest , edited by ROGER M. DES PREZ, M.D., <i>Professor of Medicine, Vanderbilt University School of Medicine; Chief of Medical Services, Veterans Administration Hospital, Nashville</i>	
	87
Acknowledgment	89
11. ASTHMA	91
12. CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND RESPIRATORY FAILURE	101
13. SLEEP APNEA HYPERSONNOLENCE SYNDROME	125
14. ADULT RESPIRATORY DISTRESS SYNDROME	133
15. INTERSTITIAL LUNG DISEASE	139
16. PULMONARY VASCULAR DISEASE INCLUDING PULMONARY EMBOLISM	155
17. LUNG CANCER	169
18. MYCOBACTERIAL DISEASE	183
19. OTHER INFECTIONS	197
20. MISCELLANEOUS	219
The Blood and Blood-Forming Organs , edited by MARTIN J. CLINE, M.D., <i>The Bowyer Professor of Medical Oncology; Department of Medicine, University of California School of Medicine, Los Angeles, California</i>	
	225

21. ERYTHROCYTES, APLASIA, AND BONE MARROW TRANSPLANTATION	227
22. LEUKOCYTES AND IMMUNODEFICIENCY	237
23. LEUKEMIA AND LYMPHOMA	247
24. ONCOLOGY	263
25. PLATELETS AND BLEEDING DISORDERS	277

The Heart and Blood Vessels, edited by EUGENE BRAUNWALD,

*M.D., Hersey Professor of Theory and Practice of Physic,
Herrman Ludwig Blumgart Professor of Medicine, Harvard
Medical School; Chairman, Department of Medicine,
Brigham and Women's and Beth Israel Hospitals, Boston*

26. ISCHEMIC HEART DISEASE	285
Coronary Risk Factors	285
Acute Myocardial Infarction	293
Chronic Coronary Artery Diseases	306
27. VALVULAR HEART DISEASE	337
28. CARDIAC ARRHYTHMIAS	341
29. HEART FAILURE	355
30. OTHER TOPICS	361

The Digestive System, edited by NORTON J. GREENBERGER, M.D.,

*Peter T. Bohan Professor and Chairman, Department
of Internal Medicine, University of Kansas Medical Center,
College of Health Sciences and Hospital*

31. ESOPHAGUS	369
32. STOMACH	379
33. SMALL BOWEL	393
34. COLON	409
35. LIVER	425
36. GALLBLADDER	467
37. PANCREAS	471

Metabolism, edited by PHILIP K. BONDY, M.D.,

*Professor of Medicine, Yale University School of Medicine;
Associate Chief of Staff for Research, West Haven Veterans
Administration Medical Center*

Introduction	479
38. PITUITARY GLAND	481
39. ADRENAL GLANDS	501
40. THYROID GLAND	511
41. GONADS	529
42. ECTOPIC HORMONES	537
43. CARBOHYDRATE METABOLISM	541
44. INBORN ERRORS OF METABOLISM	559

Kidney, Water, and Electrolytes, edited by FRANKLIN H. EPSTEIN,
M.D., *William Applebaum Professor of Medicine,*
Harvard Medical School; Director, Renal Unit,
Beth Israel Hospital, Boston 565

45. GLOMERULAR DISEASES	567
46. OTHER DISEASES OF THE KIDNEY	581
47. CHRONIC RENAL INSUFFICIENCY	587
48. HYPERTENSION	595
49. TRANSPLANTATION	603
50. DIALYSIS	609
51. WATER, SODIUM, AND POTASSIUM	617
52. ACID-BASE	623
53. CALCIUM, MAGNESIUM, STONES, AND BONES	627

Rheumatology, edited by STEPHEN E. MALAWISTA, M.D.;
Professor of Medicine, Chief, Section of Rheumatology,
Department of Internal Medicine, Yale University
School of Medicine. 633

54. RHEUMATOID ARTHRITIS	635
55. SYSTEMIC LUPUS ERYTHEMATOSUS	643
56. SPONDYLOARTHROPATHY AND REACTIVE ARTHRITIS	651
57. SCLEROSING SYNDROMES	659
58. CRYSTAL-ASSOCIATED ARTHRITIS	665
59. VASCULITIS	671
60. INFECTIOUS ARTHRITIS	677
61. OTHER TOPICS	681



1984
YEAR BOOK OF
MEDICINE®

THE 1984 YEAR BOOKS

The YEAR BOOK series provides in condensed form the essence of the best of the recent international medical literature. The material is selected by distinguished editors who critically review more than 500,000 journal articles each year.

Anesthesia: Drs. Kirby, Miller, Ostheimer, Saidman, and Stoelting.

Cancer: Drs. Clark, Cumley, and Hickey.

Cardiology: Drs. Harvey, Kirkendall, Kirklin, Nadas, Resnekov, and Sonnenblick.

Critical Care Medicine: Drs. Rogers, Booth, Dean, Gioia, McPherson, Michael, and Traystman.

Dentistry: Drs. Cohen, Hendler, Johnson, Jordan, Moyers, Robinson, and Silverman.

Dermatology: Drs. Sober and Fitzpatrick.

Diagnostic Radiology: Drs. Bragg, Keats, Kieffer, Kirkpatrick, Koehler, Sorenson, and White.

Digestive Diseases: Drs. Greenberger and Moody.

Drug Therapy: Drs. Hollister and Lasagna.

Emergency Medicine: Dr. Wagner.

Endocrinology: Drs. Schwartz and Ryan.

Family Practice: Dr. Rakel.

Medicine: Drs. Rogers, Des Prez, Cline, Braunwald, Greenberger, Bondy, Epstein, and Malawista.

Neurology and Neurosurgery: Drs. De Jong, Sugar, and Currier.

Nuclear Medicine: Drs. Hoffer, Gottschalk, and Zaret.

Obstetrics and Gynecology: Drs. Pitkin and Zlatnik.

Ophthalmology: Dr. Ernest.

Orthopedics: Dr. Coventry.

Otolaryngology: Drs. Paparella and Bailey.

Pathology and Clinical Pathology: Dr. Brinkhous.

Pediatrics: Drs. Oski and Stockman.

Plastic and Reconstructive Surgery: Drs. McCoy, Brauer, Haynes, Hoehn, Miller, and Whitaker.

Psychiatry and Applied Mental Health: Drs. Freedman, Lourie, Meltzer, Nemiah, Talbott, and Weiner.

Sports Medicine: Drs. Krakauer, Shephard, and Torg. Col. Anderson, and Mr. George.

Surgery: Drs. Schwartz, Najarian, Peacock, Shires, Silen, and Spencer.

Urology: Drs. Gillenwater and Howards.

The YEAR BOOK of

Medicine[®]

1984

Edited by

DAVID E. ROGERS, M.D.

ROGER M. DES PREZ, M.D.

MARTIN J. CLINE, M.D.

EUGENE BRAUNWALD, M.D.

NORTON J. GREENBERGER, M.D.

PHILIP K. BONDY, M.D.

FRANKLIN H. EPSTEIN, M.D.

STEPHEN E. MALAWISTA, M.D.

YEAR BOOK MEDICAL PUBLISHERS, INC.
CHICAGO

Copyright © June 1984 by YEAR BOOK MEDICAL PUBLISHERS, INC.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission from the publishers.

Printed in U.S.A.

International Standard Book Number: 0-8151-7314-8

International Standard Serial Number--0084-3873

The editor for this book was Joan David, and the production manager was H. E. Nielsen

Table of Contents

The material covered in this volume represents literature reviewed up to August 1983.

Journals Represented	9
Infections , edited by DAVID E. ROGERS, M.D., <i>President, The Robert Wood Johnson Foundation, Princeton, New Jersey; Professor of Medicine, Cornell University Medical College; Clinical Professor of Medicine, University of Medicine and Dentistry of New Jersey-Rutgers</i>	
	11
Introduction	13
1. SOCIAL CHANGE AND INFECTION	15
2. PNEUMOCOCCAL INFECTIONS	23
3. STAPHYLOCOCCAL INFECTIONS	27
4. URINARY TRACT INFECTIONS	31
5. NOSOCOMIAL INFECTIONS	37
6. SEXUALLY TRANSMITTED INFECTIONS	47
7. FUNGAL INFECTIONS	49
8. VIRAL INFECTIONS	53
9. THERAPY	61
10. MISCELLANEOUS	73
The Chest , edited by ROGER M. DES PREZ, M.D., <i>Professor of Medicine, Vanderbilt University School of Medicine; Chief of Medical Services, Veterans Administration Hospital, Nashville</i>	
	87
Acknowledgment	89
11. ASTHMA	91
12. CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND RESPIRATORY FAILURE	101
13. SLEEP APNEA HYPERSONNOLENCE SYNDROME	125
14. ADULT RESPIRATORY DISTRESS SYNDROME	133
15. INTERSTITIAL LUNG DISEASE	139
16. PULMONARY VASCULAR DISEASE INCLUDING PULMONARY EMBOLISM	155
17. LUNG CANCER	169
18. MYCOBACTERIAL DISEASE	183
19. OTHER INFECTIONS	197
20. MISCELLANEOUS	219
The Blood and Blood-Forming Organs , edited by MARTIN J. CLINE, M.D., <i>The Bowyer Professor of Medical Oncology; Department of Medicine, University of California School of Medicine, Los Angeles, California</i>	
	225

21. ERYTHROCYTES, APLASIA, AND BONE MARROW TRANSPLANTATION	227
22. LEUKOCYTES AND IMMUNODEFICIENCY	237
23. LEUKEMIA AND LYMPHOMA	247
24. ONCOLOGY	263
25. PLATELETS AND BLEEDING DISORDERS	277

The Heart and Blood Vessels, edited by EUGENE BRAUNWALD,

*M.D., Hersey Professor of Theory and Practice of Physic,
Herrman Ludwig Blumgart Professor of Medicine, Harvard
Medical School; Chairman, Department of Medicine,
Brigham and Women's and Beth Israel Hospitals, Boston*

26. ISCHEMIC HEART DISEASE	285
Coronary Risk Factors	285
Acute Myocardial Infarction	293
Chronic Coronary Artery Diseases	306
27. VALVULAR HEART DISEASE	337
28. CARDIAC ARRHYTHMIAS	341
29. HEART FAILURE	355
30. OTHER TOPICS	361

The Digestive System, edited by NORTON J. GREENBERGER, M.D.,

*Peter T. Bohan Professor and Chairman, Department
of Internal Medicine, University of Kansas Medical Center,
College of Health Sciences and Hospital*

31. ESOPHAGUS	369
32. STOMACH	379
33. SMALL BOWEL	393
34. COLON	409
35. LIVER	425
36. GALLBLADDER	467
37. PANCREAS	471

Metabolism, edited by PHILIP K. BONDY, M.D.,

*Professor of Medicine, Yale University School of Medicine;
Associate Chief of Staff for Research, West Haven Veterans
Administration Medical Center*

Introduction	479
38. PITUITARY GLAND	481
39. ADRENAL GLANDS	501
40. THYROID GLAND	511
41. GONADS	529
42. ECTOPIC HORMONES	537
43. CARBOHYDRATE METABOLISM	541
44. INBORN ERRORS OF METABOLISM	559

Kidney, Water, and Electrolytes, edited by FRANKLIN H. EPSTEIN,
M.D., *William Applebaum Professor of Medicine,*
Harvard Medical School; Director, Renal Unit,
Beth Israel Hospital, Boston 565

45. GLOMERULAR DISEASES	567
46. OTHER DISEASES OF THE KIDNEY	581
47. CHRONIC RENAL INSUFFICIENCY	587
48. HYPERTENSION	595
49. TRANSPLANTATION	603
50. DIALYSIS	609
51. WATER, SODIUM, AND POTASSIUM	617
52. ACID-BASE	623
53. CALCIUM, MAGNESIUM, STONES, AND BONES	627

Rheumatology, edited by STEPHEN E. MALAWISTA, M.D.;
Professor of Medicine, Chief, Section of Rheumatology,
Department of Internal Medicine, Yale University
School of Medicine. 633

54. RHEUMATOID ARTHRITIS	635
55. SYSTEMIC LUPUS ERYTHEMATOSUS	643
56. SPONDYLOARTHROPATHY AND REACTIVE ARTHRITIS	651
57. SCLEROSING SYNDROMES	659
58. CRYSTAL-ASSOCIATED ARTHRITIS	665
59. VASCULITIS	671
60. INFECTIOUS ARTHRITIS	677
61. OTHER TOPICS	681

Journals Represented

Acta Endocrinologica
 American Heart Journal
 American Journal of Cardiology
 American Journal of Medicine
 American Journal of Nephrology
 American Review of Respiratory Diseases
 Angiology
 Annals of Internal Medicine
 Annals of Otolaryngology, Rhinology and Laryngology
 Annals of Rheumatic Diseases
 Annals of Surgery
 Antimicrobial Agents and Chemotherapy
 Archives of Internal Medicine
 Arthritis and Rheumatism
 Blood
 British Heart Journal
 British Journal of Diseases of the Chest
 British Medical Journal
 Bulletin of the World Health Organization
 Cancer
 Chest
 Circulation
 Clinical Endocrinology
 Clinical Nephrology
 Clinical Pharmacology and Therapeutics
 Clinical Radiology
 Critical Care Medicine
 Diabetes
 Digestive Diseases and Sciences
 European Heart Journal
 Fertility and Sterility
 Gastroenterology
 Gut
 Hepatology
 International Journal of Cardiology
 Journal of Allergy & Clinical Immunology
 Journal of the American College of Cardiology
 Journal of the American Medical Association
 Journal of Applied Physiology: Respiratory, Environmental and Exercise Physiology
 Journal of Clinical Endocrinology and Metabolism
 Journal of Clinical Investigation
 Journal of Infectious Diseases
 Journal of Rheumatology
 Journal of Thoracic and Cardiovascular Surgery
 Kidney International
 Lancet

10 / JOURNALS REPRESENTED

Mayo Clinic Proceedings

Medicine

Nature

Nephron

Neurosurgery

New England Journal of Medicine

New Zealand Medical Journal

Pediatrics

Pflüger's Archiv: European Journal of Physiology

Postgraduate Medical Journal

Proceedings of the National Academy of Sciences

Quarterly Journal of Medicine

Radiology

Reviews of Infectious Diseases

Science

South African Medical Journal

Stroke

Surgery

Surgery, Gynecology and Obstetrics

Surgical Neurology

Thorax

Transplantation

Western Journal of Medicine

PART ONE
INFECTIONS

DAVID E. ROGERS, M.D.