

THE
LITERATURE
OF
MEDICINE

Infectious Disease: An Annotated Bibliography of Recent Literature

References to Journal Articles and Other Papers

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THIS BIBLIOGRAPHY includes references to 84 recently published journal papers and similar sources that represent recent developments important in the concepts and practice of internal medicine. It has been compiled as a part of the work of the Infectious Disease Committee toward the preparation of the *Medical Knowledge Self-Assessment Program IV Syllabus*.

In preparing this bibliography, the committee reviewed MEDLINE† bibliographic printouts of journal articles published since the beginning of 1972 and also drew on their own files. Papers were selected with a view to their likely availability in libraries of hospitals and other clinical institutions in the United States and Canada. This is the reason for the listing only of papers in English and for the preponderant representation of American journals and books.

Parasitic Infections

1. JOKIPII L, JOKIPII AM: Giardiasis in travelers: a prospective study. *J Infect Dis* 130:295-299, 1974
Giardiasis was a common finding among students who traveled to Leningrad; this finding correlated with the use of local tap water.
2. WOLFE MS: Giardiasis. *JAMA* 233:1362-1365, 1975
Giardiasis has many clinical expressions, and the diagnosis must be considered in those persons with subacute or chronic diarrhea after travels.
3. HEINEMAN HS: The clinical syndrome of malaria in the United States: a current review of diagnosis and treatment for American physicians. *Arch Intern Med* 129:607-616, 1972

* Richard B. Hornick, M.D., F.A.C.P., Chairman; Gerald L. Mandell, M.D.; John E. Bennett, M.D.; R. Gordon Douglas, Jr., M.D.; and Albert S. Klainer, M.D.
Reprints are not available.

† Computer literature-file of the National Library of Medicine, Bethesda, Maryland, consulted through the Regional Medical Library service Library of the College of Physicians of Philadelphia, with the technical assistance of Ruthanne Henner.

Diagnosis and treatment of the more common forms of malaria, with emphasis on the disease imported to the United States.

4. DEFORD JW: Amebiasis: newer methods of diagnosis and treatment. *South Med J* 66:1149-1153, 1973
A review of clinical, diagnostic, and therapeutic aspects of amebiasis.

Anaerobic Infections

5. FINEGOLD SM, ROSENBLATT JE: Practical aspects of anaerobic sepsis. *Medicine (Baltimore)* 52:311-322, 1973
Clinical aspects of anaerobic infection, with a brief presentation of anaerobic culture techniques and antimicrobial treatment of these infections.
6. CHOW AW, GUZE LB: Bacteroidaceae bacteremia: clinical experience with 112 patients. *Medicine (Baltimore)* 53:93-126, 1974
An extensive review of the epidemiologic and clinical considerations of 129 patients with bacteroides sepsis.
7. BARTLETT JG, FINEGOLD SM: Anaerobic pleuropulmonary infections. *Medicine (Baltimore)* 51:413-450, 1972
Clinical and bacteriologic features of anaerobic pleuropulmonary disease are reviewed.
8. FINEGOLD SM, BARTLETT JG, CHOW AW, et al: Management of anaerobic infections. *Ann Intern Med* 83:375-389, 1975
This is a UCLA Conference on the management and therapy of serious anaerobic infections.
9. BARTLETT JG, ROSENBLATT JE, FINEGOLD SM: Percutaneous transtracheal aspiration in the diagnosis of anaerobic pulmonary infection. *Ann Intern Med* 79:535-540, 1973
Anaerobes, not found normally in tracheal aspirates, can be frequently recovered from patients with pneumonia and putrid sputum or in those with lung abscess or aspiration pneumonia.
10. SWENSON RM, MICHAELSON TC, DALY MJ, et al: An-

aerobic bacterial infections of the female genital tract. *Obstet Gynecol* 42:538-541, 1973

Anaerobic bacteria were isolated from 75% of 91 hospitalized women with genital tract infections.

11. FREDERICK J, BRAUDE AI: Anaerobic infection of the paranasal sinuses. *N Engl J Med* 290:135-137, 1974

In 23 of 83 specimens aseptically removed from chronically infected paranasal sinuses, a heavy growth of anaerobes was recovered, indicating anaerobic bacteria as important causes of chronic sinusitis.

12. FASS RJ, SCHOLAND JF, HODGES GR, et al: Clindamycin in the treatment of serious anaerobic infections. *Ann Intern Med* 78:853-859, 1973

Clindamycin is effective in the therapy of actinomycosis and anaerobic infections of lung and bone, and the authors suggest that clindamycin is the primary antibiotic of choice in the treatment of serious anaerobic infection.

13. WEINSTEIN WM, ONDERDONK AB, BARTLETT JG, et al: Antimicrobial therapy of experimental intraabdominal sepsis. *J Infect Dis* 132:282-286, 1975

An experimental model of intraabdominal infection: intraperitoneal injection of colonic contents into rats; analogous to human intraabdominal infection, the early acute peritonitis, due to coliforms, was effectively treated with gentamicin, while the later intraabdominal abscesses could be prevented with clindamycin.

Hospital-Acquired Infection

14. MATSEN JM: The sources of hospital infection. *Medicine (Baltimore)* 52:271-277, 1973

A concise discussion of the important means of spread of nosocomial infections.

15. KNITTLE MA, EITZMAN DV, BAER H: Role of hand contamination of personnel in the epidemiology of gram-negative nosocomial infections. *J Pediatr* 86:433-437, 1975

This study shows that hands of hospital personnel frequently are contaminated with Gram-negative rods despite regular handwashing. Hands may therefore serve as both a passive vehicle and a reservoir of nosocomial organisms.

16. PRICE JE, SLEIGH JD: Control of infection due to *Klebsiella aerogenes* in a neurosurgical unit by withdrawal of all antibiotics. *Lancet* 2:1213-1215, 1970

An outbreak of infections due to *Klebsiella* organisms occurring in a neurosurgical intensive-care ward was not controlled by massive doses of antimicrobial agents, but infections disappeared when all antibiotics were withdrawn.

17. ROSE HD, BABCOCK JB: Colonization of intensive care unit patients with Gram-negative bacilli. *Am J Epidemiol* 101:495-501, 1975

Extensive colonization of pharynx, intestine, and tube sites by hospital Gram-negative rods occurred soon after admission to a surgical intensive-care unit.

18. RHOADES ER, RINGROSE R, MOHR JA, et al: Contamination of ultrasonic nebulization equipment with Gram-negative bacteria. *Arch Intern Med* 127:228-232, 1971

Ultrasonic nebulizers used in clinical medicine may become contaminated with Gram-negative rods, which are not always removed with 0.25% acetic acid cleansing of parts in proximity to water reservoirs.

19. EHRENKRANZ NJ, KICKLIGHTER JL: Tuberculosis outbreak in a general hospital: evidence of airborne spread of infection. *Ann Intern Med* 77:377-382, 1972

Personnel in close contact with a patient with tuberculous pneumonia had a high rate of conversion to tuberculin positivity; a moderate rate of conversion occurred among

personnel not in contact with the patient when there was inadequate ventilation. A low rate occurred in a well-ventilated ward.

20. PATTISON CP, MAYNARD JE, BERQUIST KR, et al: Epidemiology of hepatitis B in hospital personnel. *Am J Epidemiol* 101:59-64, 1975

Occupations and work areas with highest risk for acquisition of nosocomial hepatitis B were those with greatest blood exposure. Direct patient contact, apart from blood exposure, did not appear to contribute to hepatitis B transmission.

21. MCGOWAN JE JR, FINLAND M: Infection and antibiotic usage at Boston City Hospital: changes in prevalence during the decade 1964-1973. *J Infect Dis* 129:421-428, 1974

There has been little change in prevalence of, or bacterial pathogens associated with, community-acquired infection. Gram-negative bacilli and the staphylococcus have become important pathogens in hospitals due to extensive use of antimicrobials.

Topics in Impaired Hosts

22. DILWORTH JA, MANDELL GL: Infections in patients with cancer. *Semin Oncol* 2(4), December 1975

An up-to-date, well-referenced extensive review of a difficult and common problem.

23. MARTIN DW, WOEBER KA: Antibiotic therapy in compromised hosts. *Calif Med* 119:49-59, 1973

A good review of therapy of such diseases as pneumocystic infection and toxoplasmosis, with special emphasis on the use of amphotericin.

24. ROSEN P, ARMSTRONG D, RAMOS C: Pneumocystis carinii pneumonia. *Am J Med* 53:428-436, 1972

An in-depth study of a treatable opportunistic infection.

25. BODE FR, PETER-PARE JA, FRASER RG: Pulmonary diseases in the compromised host. A review of clinical and roentgenographic manifestations in patients with impaired host defense mechanisms. *Medicine (Baltimore)* 53:255-293, 1974

Pulmonary infections in the impaired host are difficult to diagnose and treat. This review gives helpful information.

26. STOSSELL TP: Phagocytosis. *N Engl J Med* 290:717-723, 774-780, 833-839, 1974

Phagocytes are an indispensable component of host defense. This three-part article reviews the normal and abnormal biology of these cells.

Venereal Diseases

27. CENTER FOR DISEASE CONTROL, PUBLIC HEALTH SERVICE: Gonorrhea: recommended treatment schedules. *Ann Intern Med* 82:230-233, 1975

Latest recommendations for treatment of gonorrhea from the Center for Disease Control.

28. REIN MF, CHAPEL TA: Trichomoniasis, candidiasis, and minor venereal diseases. *Clin Obstet Gynecol* 18:73-88, 1975

An excellent up-to-date discussion of some very common and some uncommon venereal diseases.

29. SCHROETER AL, LUCAS JB, PRICE EV, et al: Treatment for early syphilis and reactivity of serologic tests. *JAMA* 221:471-476, 1972

A re-evaluation of penicillin, tetracycline, and erythromycin treatment of syphilis from the Center for Disease Control.

30. KAUFMAN RE, WIESNER PJ: Nonspecific urethritis. *N Engl*

J Med 291:1175-1177, 1974

A discussion of the possible cause, diagnosis, and treatment of this common, but still puzzling, illness.

31. KAUFMAN RH, RAWLS WE: Herpes genitalis and its relationship to cervical cancer. *CA* 24:258-265, 1974

This viral venereal disease is becoming commonplace, is difficult to treat, and may be related to cervical cancer.

Tuberculosis and Central Nervous System Infections

32. JOHNSTON RF, WILDRICK KH: State of the art review. The impact of chemotherapy on the care of patients with tuberculosis. *Am Rev Resp Dis* 109:636-664, 1974

A concise review (136 references) that covers chemoprophylaxis, BCG vaccination, tuberculin skin testing, factors governing infectivity of tuberculosis, drug toxicity, and comparison of various drug regimens.

33. O'REILLY, RA: Interaction of chronic daily warfarin therapy and rifampin. *Ann Intern Med* 83:506-508, 1975

This and a prior report clearly show rifampin reduces the hypoprothrombinemic effect of warfarin.

34. EMOND RTD, MCKENDRICK GDW: Tuberculosis as a cause of transient aseptic meningitis. *Lancet* 2:234-236, 1974

A small series of cases suggesting that, on rare occasion, tuberculous meningitis may be self-limiting.

35. SPARKS FC, SILVERSTEIN MJ, HUNT JS, et al: Complications of BCG immunotherapy in patients with cancer. *N Engl J Med* 289:827-830, 1973

Intralesional BCG is often followed by fever and malaise, with or without hepatic dysfunction. Awareness of the features and management of BCG reactions assumes greater importance with increasing use of this form of immunotherapy.

36. LINCOLN E, GILBERT LA: Disease in children due to mycobacteria other than *Mycobacterium tuberculosis*. *Am Rev Resp Dis* 105:683-714, 1972

A detailed review of 94 references, of value to internists as well as pediatricians.

37. JOLLY HW, SEABURY JH: Infections with *Mycobacterium marinum*. *Arch Dermatol* 106:32-36, 1972

ZELIGMAN I: *Mycobacterium marinum* granuloma. *Arch Dermatol* 106:26-31, 1972

These back-to-back articles with 31 and 18 cases, respectively, are useful sources of information about the clinical and laboratory features of this increasingly recognized infection.

38. BARLOW PB, BLACK M, BRUMMER DC, et al: Preventive therapy of tuberculous infection. *Am Rev Resp Dis* 110:371-374, 1974

The official American Thoracic Society opinion on the indications for isoniazid chemoprophylaxis and how this treatment should be monitored.

Central Nervous System Infections

39. NELSON JD: Should ampicillin be abandoned for treatment of *Haemophilus influenzae* disease? *JAMA* 229:322-324, 1974

A useful overview of two reports in the same issue, which should also be consulted, showing emergence of significant ampicillin resistance in *H. influenzae*.

40. Ampicillin-resistant *Haemophilus influenzae*. *Morbid Mortal Weekly Rep* 24:205-206, 1975

Between February 1974 and 14 June 1974, ampicillin resistance had been confirmed in 58 *H. influenzae* isolates from 23 states and the District of Columbia. Seventy-one

percent of infections were meningitis. A major shift of sensitivity in this pathogen may be underway.

41. HAWLEY HB, GUMP DW: Vancomycin therapy of bacterial meningitis. *Am J Dis Child* 126:261-264, 1973

Two cases reported here now make a total of five meningitis cases responding to vancomycin. The older view that this drug will not penetrate into cerebrospinal fluid must be revised.

42. CROCKER EF, McLAUGHLIN AF, MORRIS JG, et al: Technetium brain scanning in the diagnosis and management of cerebral abscess. *Am J Med* 56:192-201, 1974

A series of 18 cases that show why brain scan has come to be regarded as the single best aid in the early diagnosis of brain abscess.

43. LERNER PI: Selection of antimicrobial agents in bacterial infections of the nervous system, in *Advances in Neurology*, vol. 6, edited by THOMPSON RA, GREEN JR. New York, Raven Press, 1974, pp. 169-203

A long but excellent chapter on antimicrobials used in infections of the central nervous system. This is one chapter in a collection of up-to-date reviews on central nervous system infections.

44. Vestibular reactions to monocycline. *Morbid Mortal Weekly Rep* 24:55, 1975

In this recent recommendation about meningococcal prophylaxis, the U.S. Public Health Service no longer advocates monocycline, because of recent reports of frequent, though reversible, vestibular toxic reactions.

45. SCHOENBAUM SC, GARDNER P, SHILLITO J: Infections of cerebrospinal fluid shunts: epidemiology, clinical manifestations and therapy. *J Infect Dis* 113:543-552, 1975

Analysis of 98 shunt infections in 77 patients, plus a useful discussion of this difficult problem.

46. LORBER B, SANTORO J, SWENSON RM: Listeria meningitis during cefazolin therapy (letter). *Ann Intern Med* 82:226, 1975

This single, brief case report and other information, in part referenced here, suggest that parenteral cefazolin, like cephalothin, penetrates poorly into cerebrospinal fluid.

Mycoses

47. Clotrimazole (Lotrimin)—A new topical antifungal drug. *Med Lett* 17:77-78, 1975

A brief evaluation of a recently marketed agent useful in ringworm and superficial candidiasis.

48. SAFIRSTEIN BH, D'SOUZA MF, SIMON G, et al: Five-year follow-up of allergic bronchopulmonary aspergillosis. *Am Rev Resp Dis* 108:450-459, 1973

This is the best information to date on prognosis and effects of treatment.

49. MILLER GG, WITWER MW, BRAUDE AI, et al: Rapid identification of *Candida albicans* septicemia in man by gas-liquid chromatography. *J Clin Invest* 54:1235-1240, 1974.

This report indicates that visceral candidiasis, with or without candidemia, may be diagnosable by detection of soluble fungal constituents in blood.

50. BENNETT JE: Chemotherapy of systemic mycoses. *N Engl J Med* 290:30-32, 1974

A comprehensive review with 105 references.

51. KATZENSTEIN A, LIEBOW AA, FRIEDMAN PJ: Bronchocentric granulomatosis, mucoid impaction and hypersensitivity reactions to fungi. *Am Rev Resp Dis* 111:497-537, 1975

A detailed, critical analysis of the clinical and histopathologic features found in several overlapping syndromes, with special attention on bronchopulmonary aspergillosis.

52. KAUFFMAN CA, TAN JS: *Torulopsis glabrata* renal infection. *Am J Med* 57:217-224, 1974

Report of four well-documented cases and review of the literature. This yeastlike fungus, normally nonpathogenic, is an occasional cause of severe renal infection in a rather characteristic clinical setting.

53. YOUNG RC, BENNETT JE, GEELHOED GW, et al: Fungemia with compromised host resistance. A study of 70 cases. *Ann Intern Med* 80:605-612, 1974

An analysis of 70 cases is used to formulate a plan for managing the compromised patient who is found to have fungus in blood culture.

54. SMITH JW, UTZ JP: Progressive disseminated histoplasmosis. A prospective study of 26 patients. *Ann Intern Med* 76:557-565, 1972

A large and well-analyzed case series of a disease that is uncommon, difficult to diagnose, and usually fatal if untreated.

55. KRICK JA, STINSON EB, REMINGTON JS: *Nocardia* infection in heart transplant patients. *Ann Intern Med* 82:18-26, 1975

These seven cases demonstrate the benefits of aggressive diagnostic methods and appropriate therapy of an uncommon infection that is all too often missed by routine diagnostic measures.

56. CARRIZOSA J, LEVINSON ME, LAWRENCE T, et al: Cure of *Aspergillus ustus* endocarditis. *Arch Intern Med* 133:486-490, 1974

UTLEY JR, MILLS J, ROE BB: The role of valve replacement in fungal endocarditis. *J Thorac Cardiovasc Surg* 69:255-258, 1975

These and prior reports indicate that the few favorable results in candida and aspergillus endocarditis have been obtained by combined excision and chemotherapy.

Vaccines

57. COREY L, HATTWICK MAW: Treatment of persons exposed to rabies. *JAMA* 232:272-276, 1975

This article is the most up-to-date statement of rabies treatment and includes discussion of the regional epidemiology of rabies, human rabies, and immune globulin and a concise flow sheet.

58. WEINSTEIN L: Tetanus. *N Engl J Med* 289:1293-1296, 1973

A current reference that concisely presents the pathogenesis, manifestations, treatment, and prophylaxis of tetanus.

59. Epidemiology of influenza—summary of influenza workshop. IV. *J Infect Dis* 128:361-386, 1973

An extensive summary of epidemiologic facts pertaining to influenza. This review can serve as an authoritative reference on this subject.

Viral, Rickettsial, and Mycoplasma Infections

60. MURRAY HW, MASUR H, SENTERFIT LB, et al: The protean manifestations of *Mycoplasma pneumoniae* infection in adults. *Am J Med* 58:229-242, 1975

This article summarizes nonpulmonary clinical manifestations, such as hematologic, neurologic, and dermatologic, that may accompany *M. pneumoniae* infections.

61. DOUGLAS RG JR: Influenza in man, in *Influenza Viruses and Influenza*, edited by KILBOURNE ED. New York,

Academic Press, pp. 395-447, in press

Up-to-date summary of clinical manifestations and importance.

62. BLACKLOW NR, DOLIN R, FEDSON DS, et al: Acute infectious nonbacterial gastroenteritis: etiology and pathogenesis. *Ann Intern Med* 76:993-1008, 1972

Review of studies on the causation and clinical manifestations of acute infectious nonbacterial gastroenteritis.

63. KRUGMAN S, HOOFNAGLE JH, GERETY RJ, et al: Viral hepatitis type B. DNA polymerase activity and antibody to hepatitis B core antigen. *N Engl J Med* 290:1331-1335, 1974

Detection of DNA-polymerase activity correlates with the period of peak hepatitis B virus replication, and antibody core antigen reflects recent or ongoing virus replication.

64. VILLAREJOS VM, KIRSTEN PH, VISONA KA, et al: Role of saliva, urine and feces in the transmission of type B hepatitis. *N Engl J Med* 291:1375-1378, 1974

This article shows that saliva may be the main vehicle of transmission of nonparenterally acquired type B hepatitis.

65. MEDICAL STAFF CONFERENCE, UNIVERSITY OF CALIFORNIA, SAN FRANCISCO: Arthritis caused by viruses. *Calif Med* 119:38-44, 1973

Succinct review of arthritis of rubella, rubella vaccine, hepatitis, mumps, and so forth.

66. BOSTON INTERHOSPITAL VIRUS STUDY GROUP AND THE NIAID-SPONSORED COOPERATIVE ANTIVIRAL CLINICAL STUDY: Failure of high dose 5-IODO-2 deoxyuridine in the therapy of herpes simplex virus encephalitis. *N Eng J Med* 292:559, 1975

Controlled study showing difficulties in making clinical diagnosis and failure of antiviral chemotherapy.

Antibiotics

67. FINLAND M: Changing patterns of susceptibility of common bacterial pathogens to antimicrobial agents. *Ann Intern Med* 76:1009-1036, 1972

An excellent paper emphasizing an important factor in the use of antimicrobial agents.

68. GOLD JA, MCKEE JP, ZIV DS: Experience with cefazolin: an overall summary of pharmacologic and clinical trials in man. *J Infect Dis* 128:415-421, 1973

A good summary of experience with a new class of cephalosporins.

69. THEN R, ANGEHRN P: Nature of the bacterial action of sulfonamides and trimethoprim alone and in combination. *J Infect Dis* (suppl) 128:498-501, 1973

An important article describing the efficacy of a combination of drugs that opens the field of the potentiators of antimicrobial action.

70. WISE PJ, NEU HC: Experience with amoxicillin: an overall summary of clinical trials in the United States. *J Infect Dis* (suppl) 129:266-271, 1974

A summary of the clinical use of a new ampicillin-like drug.

71. KAYE D, LEVISON ME, LABOVITZ ED: The unpredictability of serum concentrations of gentamicin: pharmacokinetics of gentamicin patients with normal and abnormal renal function. *J Infect Dis* 130:150-154, 1974

An important article emphasizing the need for obtaining serum levels of gentamicin; important in putting into perspective the widespread use of multiplication factors related to half-life and renal function in use of the aminoglycosides.

72. TEDESCO FJ, BARTON RW, ALPERS DH: Clindamycin-associated colitis. A prospective study. *Ann Intern Med* 81: 429-433, 1974
An important prospective study of a recently recognized complication of clindamycin therapy.
 73. LEFROCK JL, KLAINER AS, CHEN S, et al: The spectrum of colitis associated with lincomycin and clindamycin therapy. *J Infect Dis* (suppl) 131:108-115, 1972
An excellent clinical review of the colitis associated with lincomycin and clindamycin therapy.
 74. CONTE JE JR, COHEN SN, ROE BB, et al: Antibiotic prophylaxis and cardiac surgery: a prospective double-blind comparison of single-dose versus multiple-dose regimens. *Ann Intern Med* 76:943-949, 1972
An important look at the comparison between multiple- and single-dose regimens in antibiotic prophylaxis for cardiac surgery; this is not, however, a double-blind study of prophylaxis versus no prophylaxis.
 75. LEDGER WJ, GEE C, LERVIS WP: Guidelines for antibiotic prophylaxis in gynecology. *Am J Obstet Gynecol* 121:1038-1045, 1975
An attempt at establishing guidelines for antibiotic prophylaxis in certain types of surgery.
- Infectious Diseases—Diagnosis**
76. JORDAN CE, JAMES AE JR, HODGES FJ III: Comparison of the cerebral angiogram and the brain radionuclide image in brain abscess. *Radiology* 104:327-331, 1972
A worthwhile article comparing two diagnostic methods for the detection of brain abscess.
 77. LITTENBERG RL, TAKETA RM, ALAZRAKI NP, et al: Gallium-67 for localization of septic lesions. *Ann Intern Med* 79:403-406, 1973
A useful clinical article on the use of gallium-67 in the diagnosis of certain infectious diseases.
 78. DAMRON JR, BEHN RM, SELBY JB, et al: Gallium-technetium subtraction scanning for the localization of subphrenic abscess. *Radiology* 113:117-122, 1974
An interesting article that used scanning procedures for the diagnosis of subphrenic abscess.
 79. SILVA J JR, HARVEY WC: Detection of the infections with gallium-67 and scintigraphic imaging. *J Infect Dis* 130: 125-131, 1974
A good article describing the use of gallium citrate Ga67 in the diagnosis of occult infectious diseases.
 80. TOBIN BM, JONES DM: Immuno-electro-osmophoresis in the diagnosis of meningococcal infection. *J Clin Pathol* 25:583-585, 1972
A new method of detecting antigens of meningococci in the diagnosis of meningococcal infection.
 81. FOSSIECK B JR, CRAIG R, PATERSON PY: Counterimmunoelectrophoresis for rapid diagnosis of meningitis due to *Diplococcus pneumoniae*. *J Infect Dis* 127:106-109, 1973
One of a number of good articles on the use of counter-immuno-electrophoresis in the early diagnosis of meningitis.
 82. SHACKELFORD PG, CAMPBELL J, FEIGEN RD: Counter-current immunoelectrophoresis in the evaluation of childhood infections. *J Pediatr* 85:478-481, 1974
A good review article on one of the newer methods of early diagnosis of infectious diseases by using counter-current immunoelectrophoresis to detect antigens of specific pathogens.
- Fever**
83. RODRIGUEZ V, BURGESS M, BODEY GP: Management of fever of unknown origin in patients with neoplasms and neutropenia. *Cancer* 32:1007-1012, 1973
A worthwhile review of the study and diagnosis of fever of obscure cause in patients with neoplasms and neutropenia.
 84. JACOBY GA, SWARTZ MN: Fever of undetermined origin. *N Engl J Med* 289:1407-1410, 1973
An up-to-date review of the subject of fever of undetermined cause.

Book Reviews

Who Shall Live? By Victor R. Fuchs. 168 pages. Basic Books, New York. Price, \$8.75.

THE MIND of the average physician is usually closed to the argument of the health economist. The reaction is understandable given the pontifical exhortation and condescending accusation frequently encountered in the economist's exposition. In arresting contrast, Fuchs writes: "This book is not a directory of villains. It is simply not true that you can always recognize the 'bad guys' by their white coats." Moreover, the author disclaims a corner on truth by describing quite explicitly the limitations of economics as a tool for study and for resolution of societal problems.

Who Shall Live? is devoted primarily to a thoughtful enumeration of issues and alternatives. Each group of issues is preceded by succinct, but clear and complete, data which enable one to understand the rationale of the alternatives presented. The discussion is limited almost entirely to health services in the United States. However, cogent comparisons with other countries are frequently made. (A parochial Canadian reviewer invariably regards the experience with the universal health insurance scheme in his country as an

ideal source of empirical data with relevance to anticipated U.S. national health insurance. Such evidence was not employed by the author.) In the early part of the book, Fuchs invokes a considerable amount of epidemiologic evidence in the delineation of crucial choices facing the U.S. citizen and his government. Although an epidemiologist might wince at his proneness to attribute causality to observed associations (periodic checkups lead to improved health; obesity causes poor health), in general Fuchs handles his information accurately and skillfully employs an intriguing orientation that might be called economic epidemiology. His book has a pleasing style and is remarkably free of technical jargon. When such terminology is unavoidable it is carefully defined. Having devoted most of the text to description and delineation, that is, the "isness" of the current situation, Fuchs, in a brief final chapter, explores the "oughtness" for the future. One might disagree with Fuchs' solutions but the dissent would likely be free of the anger that usually accompanies reactions to an indiscriminate polemicist. "Few simple solutions are presented," he writes, "because, in my view, few exist. Some health problems defy 'solution.'"

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Renal Disease
Fluids and Electrolytes
Rheumatology

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Clinical Pharmacology
Therapeutics
Microbiology
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Physiology
Pathologic Physiology

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Nutrition
Occupational and Industrial Medicine and Toxicology
Physical Medicine and Rehabilitation
Public Health and Preventive Medicine
Tropical Medicine and Parasitology
Tropical Medicine
Parasitology

GENERAL INTERNAL MEDICINE (144/177)

Books*

Textbook of Medicine, 14th ed. 1892 pp.
Beeson PB, McDermott W (eds.).
Philadelphia, Saunders, 1975. Single vol., \$34.50; 2-vol. set, \$40.00.

Harrison's Principles of Internal Medicine, 7th ed. 2223 pp.
Wintrobe MM, et al. (eds.).
New York, McGraw-Hill, 1974. 1-vol. ed., \$33.00; 2-vol. ed., \$40.00.

The Principles and Practice of Medicine, 19th ed. 1750 pp.
Harvey AM, et al. (eds.).
New York, Appleton, in prep.

Controversy in Internal Medicine II. 829 pp.
Ingelfinger FJ, et al. (eds.).
Philadelphia, Saunders, 1974, \$18.50.

Differential Diagnosis: The Interpretation of Clinical Evidence,
2nd ed. 1238 pp.
Harvey AM, Bordley J III.
Philadelphia, Saunders, 1970. \$27.00.

Journals

Annals of Internal Medicine
Monthly, \$21.00.

New England Journal of Medicine
Weekly, \$22.00.

American Journal of Medicine
Monthly, \$20.00.

Lancet
Weekly, \$25.00.

Archives of Internal Medicine
Monthly, \$25.00.

Journal of American Medical Association
Weekly, \$30.00.

* Names of book publishers are, with some exceptions, abbreviated according to the form of *Bowker's Medical Books in Print*, New York, R. R. Bowker Book Company, 1975, and will be known to book dealers.

General Internal Medicine continued

Medical Clinics of North America
Bimonthly, \$27.00.

Medical Letter on Drugs and Therapeutics
Biweekly, \$19.50.

SUBSPECIALTIES OF INTERNAL MEDICINE

ALLERGY* (39/69)

GENERAL INTERNIST

Books

Allergic Diseases: Diagnosis and Management. 649 pp.
Patterson R.
Philadelphia, Lippincott, 1972, \$23.75.

Immunological Diseases, 2nd ed. 1384 pp.
Samter M (ed.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

Manual of Clinical Allergy, 2nd ed. 550 pp.
Sheldon JM, et al.
Philadelphia, Saunders, 1967. \$16.00.

Modern Concepts in Clinical Allergy. 93 pp.
Patterson R (ed.).
Baltimore, Williams & Wilkins, 1972. Paper, \$9.95.

Clinical Aspects of Immunology, 3rd ed. 1790 pp.
Gell PGH, Coombs RRA (eds.).
Philadelphia, Lippincott, 1975, \$79.00.

Journals

Journal of Allergy and Clinical Immunology
Monthly, \$20.50.

New England Journal of Medicine
Weekly, \$22.00.

Annals of Internal Medicine
Monthly, \$21.00.

Hospital Practice
Monthly, \$12.00.

Lancet
Weekly, \$25.00.

INTERNISTS SPECIALIZING IN ALLERGY

Books

Immunological Diseases, 2nd ed. 1384 pp.
Samter M (ed.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

Asthma: Physiology, Immunopharmacology and Treatment.
350 pp.
Austen KF, Lichtenstein LM.
New York, Acad Pr, 1974. \$19.50.

Clinical Aspects of Immunology, 3rd ed. 1790 pp.
Gell PGH, Coombs RRA (eds.).
Philadelphia, Lippincott, 1975. \$79.00.

Allergic Diseases: Diagnosis and Management. 649 pp.
Patterson R.
Philadelphia, Lippincott, 1972, \$23.75.

Manual of Clinical Allergy, 2nd ed. 550 pp.
Sheldon JM, et al.
Philadelphia, Saunders, 1967. \$16.00.

* See Immunology.

Journals

Journal of Allergy and Clinical Immunology
Monthly, \$20.50.

Journal of Immunology
Monthly, \$60.00.

Clinical and Experimental Immunology
Monthly, \$175.00.

American Review of Respiratory Diseases
Monthly, \$35.00.

International Archives of Allergy and Applied Immunology
Monthly, \$220.00.

Advances in Immunology (annual review)
Annual, \$21.00.

IN-DEPTH STUDY

Books

Asthma: Physiology, Immunopharmacology and Treatment.
350 pp.
Austen KF, Lichtenstein LM.
New York, Acad Pr, 1974. \$19.50.

Immunological Diseases, 2nd ed. 1384 pp.
Samter M (ed.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

Mechanisms in Allergy: Reaginmediated Hypersensitivity, Immunology Ser., Vol. 1. 608 pp.
Goodfriend L, et al. (eds.).
New York, Dekker, 1973. \$32.75.

Progress in Allergy, Vol. 18. 447 pp.
Weck A de, et al. (eds.).
S. Karger, 1974. \$85.25.

Textbook of Immunopathology, 2nd ed.
Miescher PA, Mueller-Eberhard HJ (eds.).
New York, Grune & Stratton. Vol. 1 and Vol. 2, 1976, in prep.

Clinical Aspects of Immunology, 3rd ed. 1790 pp.
Gell PGH, Coombs RRA (eds.).
Philadelphia, Lippincott, 1975, \$79.00.

Immunobiology, 305 pp.
Good RA, Fisher DW (eds.).
Stamford, Connecticut Sinauer Assoc, 1971. \$10.95.

Respiratory Function in Disease, 2nd ed. 584 pp.
Bates DV, et al.
Philadelphia, Saunders, 1971. \$24.00.

Journals

Advances in Immunology (annual review)
Annual, \$21.00.

Journal of Immunology
Monthly, \$60.00.

Journal of Experimental Medicine
Monthly, \$70.00.

Clinical and Experimental Immunology
Monthly, \$175.00.

Cellular Immunology
Monthly, \$183.00.

Immunology
Monthly, \$105.00.

Allergy continued

Journal of Allergy and Clinical Immunology
Monthly, \$20.50.

Arthritis and Rheumatism
Bimonthly, \$23.00.

CARDIOLOGY (169/272)

GENERAL INTERNIST

Books

The Heart, 3rd ed. 1856 pp.
Hurst JW, et al. (eds.).
New York, McGraw-Hill, 1974. \$41.00.

Diseases of the Heart, 3rd ed. 1840 pp.
Friedberg CK.
Philadelphia, Saunders, 1966. \$30.00.

Cardiac Diagnosis and Treatment, 2nd ed. Approx. 1300 pp.
Fowler NO (ed.).
Hagerstown, Maryland, Harper & Row, 1976, in prep.

Principles of Clinical Cardiology. 735 pp.
Selzer A.
Philadelphia, Saunders, 1975. \$18.50.

Monograph Series*

Cardiovascular Clinics (3 issues yearly) Vols. 1-6 (1969-1975).
Brest AN (ed.).
Philadelphia, Davis Co., 1969-1975. Prices vary by issue.

Progress in Cardiology (annual volume).
Yu PN, Goodwin J (eds.).
Philadelphia, Lea & Febiger, Vol. 1, 1972, \$15.00; Vol. 2, 1973, \$15.00; Vol. 3, 1974, \$17.50; Vol. 4, 1974, \$17.50.

Journals

American Journal of Cardiology
Monthly, \$20.00.

Circulation
Monthly, \$25.00.

Progress in Cardiovascular Diseases
Bimonthly, \$25.00.

Modern Concepts of Cardiovascular Diseases
Monthly, free from local Heart Association.

New England Journal of Medicine
Weekly, \$22.00.

Annals of Internal Medicine
Monthly, \$21.00.

American Heart Journal
Monthly, \$19.50.

INTERNISTS SPECIALIZING IN CARDIOLOGY

Books

The Heart, 3rd ed. 1856 pp.
Hurst JW, et al. (eds.).
New York, McGraw-Hill, 1974. \$41.00.

Diseases of the Heart, 3rd ed. 1840 pp.
Friedberg CK.
Philadelphia, Saunders, 1966. \$30.00.

* These Monographs are recommended for General Internists, Internists Specializing in Cardiovascular Disease, and for In-Depth study.

Cardiac Diagnosis and Treatment, 2nd ed. Approx. 1300 pp.
Fowler NO (ed.).
Hagerstown, Maryland, Harper & Row, 1976, in prep.

Principles of Clinical Cardiology. 735 pp.
Selzer A.
Philadelphia, Saunders, 1975. \$18.50.

Nomenclature and Criteria for Diagnosis of Diseases of the Heart and Great Vessels, 7th ed. 347 pp.
New York Heart Association Criteria Committee.
Boston, Little, Brown, 1973. Paper, \$6.95; cloth, \$9.95.

Cardiac and Vascular Diseases. 1878 pp.
Conn HL, Horwitz O (eds.).
Philadelphia, Lea & Febiger, 1972. 2 vols., \$39.50.

Heart Disease. 1430 pp.
Silber EN, Katz LN.
New York, Macmillan, 1975, \$39.95.

Journals

Circulation
Monthly, \$25.00.

American Journal of Cardiology
Monthly, \$20.00.

Progress in Cardiovascular Diseases
Bimonthly, \$25.00.

American Heart Journal
Monthly, \$19.50.

British Heart Journal
Monthly, \$46.50.

IN-DEPTH STUDY

Book

The Heart, 3rd ed. 1856 pp.
Hurst JW, et al. (eds.).
New York, McGraw-Hill, 1974. \$41.00.

Journals

Circulation Research
Monthly, \$30.00.

Progress in Cardiovascular Diseases
Bimonthly, \$25.00.

Circulation
Monthly, \$25.00.

British Heart Journal
Monthly, \$46.50.

Year Book of Cardiovascular Medicine and Surgery
Annual, \$21.75.

American Journal of Cardiology
Monthly, \$20.00.

American Heart Journal
Monthly, \$19.50.

SPECIALIZED AREAS FOR IN-DEPTH STUDY

Books

A. Cardiovascular Physiology

Cardiovascular Dynamics, 4th ed. Approx. 576 pp.
Rushmer RF.
Philadelphia, Saunders, 1976, in prep.

Cardiology continued

Handbook of Physiology, Sec. 2 of *Circulation*. Vol. 1, 758 pp.; Vol. 2, 1028 pp.; Vol. 3, 986 pp.
American Physiological Society, Hamilton WF (ed.).
Baltimore, Williams & Wilkins, Vol. 1, 1962, \$24.00; Vol. 2, 1963, \$32.00; Vol. 3, 1965, \$32.00.

Circulatory Physiology I: Cardiac Output & Its Regulation, 2nd ed. 556 pp.
Guyton AC, et al.
Philadelphia, Saunders, 1973. \$20.00.

Cardiovascular Physiology, 2nd ed. 265 pp.
Berne RM, Levy MN.
St. Louis, Mosby, 1972. \$12.50.

Cardiovascular Physiology, Vol. I. MTP International Review of Science. 349 pp.
Guyton AC, Jones CE (eds.).
Baltimore, Univ. Park, 1974. \$19.50.

Circulatory Physiology II: Dynamics and Control of the Body Fluids. 397 pp.
Guyton AC, et al.
Philadelphia, Saunders, 1975. \$20.00.

B. Cardiovascular Pathology

The Heart, International Academy of Pathology Monograph No. 15. 370 pp.
Edwards JE, et al.
Baltimore, Williams & Wilkins, 1974, \$21.50.

Pathology of the Heart and Blood Vessels, 3rd ed. 1218 pp.
Gould SE (ed.).
Springfield, Illinois, C C Thomas, 1968. \$42.50.

Cardiovascular Pathology. Vol. 1, 1190 pp.; Vol. 2, 2120 pp.; Vol. 3, 1166 pp.
Hudson REB.
Baltimore, Williams & Wilkins; Vol. 1, 1965, \$37.50; Vol. 2, 1965, \$37.50; Vol. 3, 1970, \$74.75; 3-vol. set, \$145.00.

C. Cardiovascular Pharmacology

The Pharmacological Basis of Therapeutics, 5th ed. 1704 pp.
Goodman LS, Gilman A (eds.).
New York, Macmillan, 1975. \$30.00.

D. Pediatric Cardiology

Pediatric Cardiology, 3rd ed. 749 pp.
Nadas AS, Fyler DC.
Philadelphia, Saunders, 1972. \$25.00.

The Clinical Recognition of Congenital Heart Disease. 606 pp.
Perloff JK.
Philadelphia, Saunders, 1970. \$25.00.

E. Cardiovascular Radiology

Angiography, 2nd ed. 1441 pp.
Abrams HL (ed.).
Boston, Little, Brown, 1971. 2 vols., \$115.00.

Clinical Cardiac Radiology. 326 pp.
Jefferson K, Rees S.
Reading, Massachusetts, Butterworth, 1973. \$37.50.

F. Cardiovascular Physical Diagnosis

Examination of the Heart; Part 1: Data Collection, The Clinical History, 28 pp., 1973; Part 2: Inspection and Palpation of Venous and Arterial Pulses, 41 pp., 1972; Part 3: Inspection and Palpation of the Anterior Chest,

28 pp., 1972; Part 4: Auscultation, 74 pp., 1974; Part 5: The Electrocardiogram, 81 pp., 1973.
Silverman M, Part 1; Fowler NO, Part 2; Hurst JW, Schlant RC, Part 3; Leonard JJ, Kroetz FW et al, Part 4; Littmann D, Part 5.
Dallas, Am Heart, free from local Heart Association.

G. Indirect Graphic Methods, Arterial Pulse, Apex Impulse Recording

Clinical Phonocardiography and External Pulse Recording, 2nd ed. 322 pp.
Tavel ME.
Chicago, Year Bk Med, 1972. \$17.00.

Noninvasive Cardiology (Clinical Cardiology Monographs). 384 pp.
Weissler A (ed.).
New York, Grune & Stratton, 1974. \$19.00.

Diagnostic Methods in Cardiology. 468 pp.
Fowler NO (ed.).
Philadelphia, Davis Co., 1975. \$32.00.

H. Auscultation and Phonocardiography

Auscultation of the Heart and Phonocardiography. 151 pp.
Leatham A.
Baltimore, Williams & Wilkins, 1970. \$14.00.

I. Echocardiography

Echocardiography. 239 pp.
Feigenbaum, H.
Philadelphia, Lea & Febiger, 1972. \$11.00.

Cardiac Ultrasound. 400 pp.
Gramiak R, Waag RC (eds.).
St. Louis, Mosby, 1975. \$34.50.

J. Ballistocardiography

Noninvasive Cardiology (Clinical Cardiology Monographs). 384 pp.
Weissler AM (ed.).
New York, Grune & Stratton, 1974. \$19.00.

K. Exercise Function Testing and Physiology

Exercise Testing and Exercise Training in Coronary Heart Disease. 496 pp.
Naughton J, Hellerstein HK (eds.).
New York, Acad Pr, 1973. \$17.00.

Textbook of Work Physiology. 669 pp.
Astrand PO, Rodahl K.
New York, McGraw-Hill, 1970. \$14.95.

Stress Testing, Principles and Practice. 296 pp.
Ellstad MH.
Philadelphia, Davis Co., 1975. \$18.50.

L. Cardiac Catheterization

Cardiac Catheterization and Angiography. 339 pp.
Grossman W.
Philadelphia, Lea & Febiger, 1974. \$24.50.

M. Coronary Angiography

Coronary Arteriography. 488 pp.
Gensini GG.
Mount Kisco, New York, Futura Pub, 1975. \$48.00.

Cardiology continued

N. Cardiovascular Surgery*

Advances in Cardiovascular Surgery (Clinical Cardiology Monographs). 296 pp.
Kirklin JW (ed.).
New York, Grune & Stratton, 1973. \$17.25.

Patient Care in Cardiac Surgery. 128 pp.
Behrendt DM, Austen GW.
Boston, Little, Brown, 1972. Paper, \$8.50.

O. Arteriosclerosis

Arteriosclerosis and Coronary Heart Disease. 560 pp.
Likoff W, et al. (eds.).
New York, Grune & Stratton, 1972. \$37.25.

The Pathogenesis of Arteriosclerosis. 276 pp.
Wissler RW, et al. (eds.).
Baltimore, Williams & Wilkins, 1972. \$23.00.

P. Ischemic Heart Disease

Myocardial Infarction. 414 pp.
Corday E, Swan HJ (eds.).
Baltimore, Williams & Wilkins, 1973. \$26.50.

Angina Pectoris, American Heart Association Monograph No. 37. 180 pp.
Friedberg CK (ed.).
Dallas, Am Heart, 1972. Paper, \$5.00.

Q. Myocardial Infarction

Principles and Problems of Ischemic Heart Disease. 478 pp.
Harrison TR, Reeves TJ.
Chicago, Year Bk Med, 1968. \$27.50.

Hemodynamic Monitoring in a Coronary Intensive Care Unit. 284 pp.
Russell RO Jr, Rackley CE.
Mount Kisco, New York, Futura Pub, 1974. \$17.50.

Myocardial Infarction. 414 pp.
Corday E, Swan HJ (eds.).
Baltimore, Williams & Wilkins, 1973. \$26.50.

Myocardial Infarction. 150 pp.
Friedberg CK (ed.).
Dallas, Am Heart, 1972. Paper, \$5.00.

Shock in Myocardial Infarction. 310 pp.
Gunnar RM, et al (eds.).
New York, Grune & Stratton, 1974. \$17.50.

R. Cardiac Emergencies

Cardiac Arrest and Resuscitation, 4th ed. 998 pp.
Stephenson HE Jr.
St. Louis, Mosby, 1974. \$49.50.

S. Cardiac Rehabilitation, Exercise

Cardiac Rehabilitation. 256 pp.
Zohman LR, Tobis JS.
New York, Grune & Stratton, 1970. \$16.75.

T. Hypertension

Hypertension Manual.
Laragh JH (ed.).
New York, Yorke Medical Books, 1974. \$37.00.

* Recommendations for medical aspects of cardiovascular surgery.

Clinical Hypertension. 347 pp.
Kaplan NM.
Baltimore, Williams & Wilkins, 1973. \$30.00.

U. Cerebral Vascular Disease

Cerebrovascular Disorders, 2nd ed. 412 pp.
Toole JF, Patel AN.
New York, McGraw-Hill, 1974. \$21.00.

V. Peripheral Vascular Disease

Peripheral Arterial Disease, Vol. 4, Major Problems in Clinical Surgery Ser., 2nd ed. 503 pp.
Barker WF.
Philadelphia, Saunders, 1975. \$17.50.

Allen-Barker-Hines Peripheral Vascular Diseases, 4th ed. 797 pp.
Fairbairn JF, et al.
Philadelphia, Saunders, 1972. \$25.00.

W. Cardiomyopathy

Myocardial Diseases. 392 pp.
Fowler NO (ed.).
New York, Grune & Stratton, 1973. \$21.00.

X. Heart Failure

Mechanisms of Contraction in the Normal and Failing Heart, 2nd ed. 417 pp.
Braunwald E, et al.
Boston, Little, Brown, 1976. \$24.50.

The Myocardium: Failure and Infarction. 409 pp.
Braunwald E (ed.).
New York, Hospital Practice Publishing, 1974. \$19.75.

Y. Pulmonary Embolism, Cor Pulmonale

Pulmonary Emboli. 175 pp.
Sasahara AA (ed.).
New York, Grune & Stratton, 1975. \$16.50.

Z. Cardiovascular Trauma

Traumatic Injuries of the Heart and Great Vessels. 204 pp.
Symbas PN.
Springfield, Illinois, C C Thomas, 1972. \$14.00.

AA. Psychological Aspects of Heart Disease

Psychological Aspects of Myocardial Infarction and Coronary Care. 162 pp.
Gentry WD, Williams RB.
St. Louis, Mosby, 1975. \$6.95.

BB. Cardiovascular Nuclear Medicine

Cardiovascular Nuclear Medicine. 383 pp.
Strauss HW, et al.
St. Louis, Mosby, 1974. \$41.00.

CC. Cardiac Epidemiology

Cardiovascular Diseases in the United States. 496 pp.
Moriyama IM, et al.
Cambridge, Massachusetts, Harvard U Pr, 1971. \$10.00.

Cardiology continued

DD. Cardiology In-Depth

Heart, Vol. 5 of the Ciba Collection of Medical Illustrations.
295 pp.
Netter FH.
Summit, New Jersey, Ciba Publications, 1969. \$29.50.

Nomenclature and Criteria for Diagnosis of Diseases of the Heart and Great Vessels, 7th ed.
New York Heart Association.
Boston, Little, Brown, 1973. Paper, \$6.95; cloth, \$9.95.

ELECTROCARDIOGRAPHY (142/273)

GENERAL INTERNIST

Books

Practical Electrocardiography, 5th ed. 341 pp.
Marriott HJL.
Baltimore, Williams & Wilkins, 1972. \$12.00.

Grant's Clinical Electrocardiography, 2nd ed. 225 pp.
Beckwith J.
New York, McGraw-Hill, 1970. \$12.00.

A Primer of Electrocardiography, 6th ed. 292 pp.
Burch GE, Winsor T.
Philadelphia, Lea & Febiger, 1972. \$7.75.

Principles of Clinical Electrocardiography, 9th ed. Approx.
400 pp.
Goldman MJ.
Los Altos, California, Lange, 1976. Approx. \$10.00.

Introduction to Electrocardiography, 2nd ed. 336 pp.
Hurst JW, Meyerburg R.
New York, McGraw-Hill, 1973. \$11.95.

Journals

American Journal of Cardiology
Monthly, \$20.00.

Circulation
Monthly, \$25.00.

American Heart Journal
Monthly, \$19.50.

Progress in Cardiovascular Diseases
Bimonthly, \$25.00.

Journal of Electrocardiology
Quarterly, \$20.00.

INTERNISTS SPECIALIZING IN ELECTROCARDIOGRAPHY

Books

Electrocardiography: Practical Applications with Vectorial Principles, 500 pp.
Chung EK.
Hagerstown, Maryland, Harper & Row, 1974. \$32.50.

Grant's Clinical Electrocardiography, 2nd ed. 225 pp.
Beckwith J.
New York, McGraw-Hill, 1970. \$12.00.

Clinical Scalar Electrocardiography, 6th ed. 721 pp.
Lipman BS, et al.
Chicago, Year Bk Med, 1972. \$22.00.

Clinical Vectorcardiography and Electrocardiography, 592 pp.
Massie E, Walsh TJ.
Chicago, Year Bk Med, 1960. \$29.50.

Practical Electrocardiography, 5th ed. 341 pp.
Marriott HJL.
Baltimore, Williams & Wilkins, 1972. \$12.00.

Journals

Circulation
Monthly, \$25.00.

American Journal of Cardiology
Monthly, \$20.00.

Journal of Electrocardiology
Quarterly, \$20.00.

American Heart Journal
Monthly, \$19.50.

British Heart Journal
Monthly, \$46.50.

IN-DEPTH STUDY

Books

Clinical Vectorcardiography, 2nd ed. 480 pp.
Chou TCC, Helm RA.
New York, Grune & Stratton, 1974. \$21.50.

Deductive and Polyparametric Electrocardiography. 568 pp.
Sodi Pallares D, Medrano GA, Bistemi A, et al.
Mexico City, Instituto Nacional de Cardiologia de Mexico,
1970. \$25.00.

Workshop in Electrocardiography. 551 pp.
Marriott HJL.
Oldsmar, Florida, Tampa Tracings, 1972. Cloth, \$50.00; Paper,
\$20.00.

Journals

Journal of Electrocardiology
Quarterly, \$20.00.

Circulation Research
Monthly, \$30.00.

Progress in Cardiovascular Diseases
Bimonthly, \$25.00.

Circulation
Monthly, \$25.00.

Cardiovascular Research
Bimonthly, \$32.00.

SPECIALIZED AREAS FOR IN-DEPTH STUDY

Books

A. Electrophysiology

Electrophysiology of the Heart. 323 pp.
Hoffman BF, Cranefield PS.
New York, McGraw-Hill, 1960. \$15.95.

Electrical Phenomena in the Heart. 415 pp.
DeMello WC (ed.).
New York, Acad Pr, 1972. \$29.00.

B. General

Advances in Electrocardiography (Clinical Cardiology Monographs). 480 pp.
Schlant RC, Hurst JW (eds.).
New York, Grune & Stratton, 1972. \$28.50.

Electrocardiography continued

C. Vectorcardiography

Clinical Vectorcardiography, 2nd ed. 480 pp.
Chou TCC, Helm RA.
New York, Grune & Stratton, 1974. \$21.50.

Clinical Vectorcardiography and Electrocardiography. 592 pp.
Massie E, Walsh TJ.
Chicago, Year Bk Med, 1960. \$29.50.

D. Pediatric Electrocardiography

Practical Pediatric Electrocardiography. 148 pp.
Moss AJ, Emmanouilides GC.
Philadelphia, Lippincott, 1973. \$17.00.

Electrocardiography in the Diagnosis of Congenital Heart Disease. 755 pp.
Burch GE, DePasquale NP.
Philadelphia, Lea & Febiger, 1967. \$26.00.

E. Dysrhythmias

Clinical Disorders of the Heart Beat, 3rd ed. 1317 pp.
Bellet S.
Philadelphia, Lea & Febiger, 1971. \$52.50.

The Disorders of Cardiac Rhythm. 664 pp.
Schamroth L.
Philadelphia, Lippincott/Blackwell, 1971. \$48.00.

Complex Electrocardiography I, Vol. 5, No. 3 of *Cardiovascular Clinics*. 332 pp.
Fisch C (ed.).
Philadelphia, Davis Co., 1973. \$15.00.

F. Conduction Disturbances

The Hemiblocks. 269 pp.
Rosenbaum MB, et al.
Oldsmar, Florida, Tampa Tracings, 1970. \$12.75.

His Bundle Electrocardiography and Clinical Electrophysiology. 472 pp.
Narula OS.
Philadelphia, Davis Co., 1975. \$35.00.

G. Cardiac Pacing

Cardiac Pacing: A Clinical Overview. 330 pp.
Furman S, Escher DJW.
Bowie, Maryland, Charles, 1975. \$15.95.

Electrophysiology of Pacing and Cardioversion. 250 pp.
Castellanos A Jr, Lemberg L.
New York, Appleton, 1969. \$12.65.

H. Exercise Electrocardiography

Stress Testing. Principles and Practice. 296 pp.
Ellestad M.
Philadelphia, Davis Co., 1975. \$18.50.

I. Miscellaneous

The Sick Sinus Syndrome. 122 pp.
Ferrer MI.
Mount Kisco, New York, Futura Pub, 1974. \$13.50.

ENDOCRINOLOGY AND METABOLISM (39/56)

GENERAL INTERNIST

Books

Textbook of Endocrinology, 5th ed. 1138 pp.
Williams RH (ed.).
Philadelphia, Saunders, 1974. \$28.00.

Duncan's Diseases of Metabolism, 7th ed. Vol. 1, 948 pp.; Vol. 2, 736 pp.
Bondy PK, Rosenberg L (eds.).
Philadelphia, Saunders, 1974; Vol. 1, \$26.00; Vol. 2, \$26.00.

The Metabolic Basis of Inherited Disease, 3rd ed. 1778 pp.
Stanbury JB, et al. (eds.).
New York, McGraw-Hill, 1972. \$51.00.

Diabetes Mellitus: Diagnosis and Treatment
American Diabetes Association, Committee on Professional Education. Vol. 1, Danowski TS (ed.); Vol. 2, Hamwi GJ, Danowski TS (eds.); Vol. 3, Fajans SS, Sussman KE (eds.); Vol. 4, Sussman K, Metz R (eds.).
New York, American Diabetes Association, 1964-71. Vol. 1, \$2.00; Vol. 2, \$2.50; Vol. 3, \$5.75; Vol. 4, in prep.

The Thyroid, 3rd ed. 944 pp.
Werner SC, Ingbar SH (eds.).
Hagerstown, Maryland, Harper & Row, 1971. \$40.00.

Journals

Journal of Clinical Endocrinology and Metabolism
Monthly, \$35.00.

New England Journal of Medicine
Weekly, \$22.00.

Annals of Internal Medicine
Monthly, \$21.00.

American Journal of Medicine
Monthly, \$20.00.

Diabetes
Monthly, \$28.00.

INTERNISTS SPECIALIZING IN ENDOCRINOLOGY AND METABOLISM

Books

Textbook of Endocrinology, 5th ed. 1138 pp.
Williams RH (ed.).
Philadelphia, Saunders, 1974. \$28.00.

Duncan's Diseases of Metabolism, 7th ed. Vol. 1, 948 pp.; Vol. 2, 736 pp.
Bondy PK, Rosenberg L (eds.).
Philadelphia, Saunders, 1974. Vol. 1, \$26.00; Vol. 2, \$26.00.

The Metabolic Basis of Inherited Disease, 3rd ed. 1778 pp.
Stanbury JB, et al. (eds.).
New York, McGraw-Hill, 1972. \$51.00.

Joslin's Diabetes Mellitus, 11th ed.
Marble A, et al.
Philadelphia, Lea & Febiger, 1971. \$32.50.

The Thyroid, 3rd ed. 944 pp.
Werner SC, Ingbar SH (eds.).
Hagerstown, Maryland, Harper & Row, 1971. \$40.00.

Journals

Journal of Clinical Endocrinology and Metabolism
Monthly, \$35.00.

Endocrinology and Metabolism continued

Metabolism: Clinical and Experimental
Monthly, \$34.00.

Diabetes
Monthly, \$28.00.

Endocrinology
Monthly, \$35.00.

New England Journal of Medicine
Weekly, \$22.00.

Journal of Clinical Investigation
Monthly, \$60.00.

IN-DEPTH STUDY

Books

The Metabolic Basis of Inherited Disease, 3rd ed. 1778 pp.
Stanbury JB, et al. (eds.).
New York, McGraw-Hill, 1972, \$51.00.

The Thyroid, 3rd ed. 944 pp.
Werner SC, Ingbar SH (eds.).
Hagerstown, Maryland, Harper & Row, 1971. \$40.00.

Genetic Disorders of the Endocrine Glands. 383 pp.
Rimoin DL, Schimke RN.
St. Louis, Mosby, 1971. \$37.50.

Metabolic Bone and Stone Disease. 309 pp.
Nordin BE.
Baltimore, Williams & Wilkins, 1973. \$22.00.

Human Development and the Thyroid Gland: Relation to Endemic Cretinism, Advances in Experimental Medicine and Biology Ser. 518 pp.
Stanbury JB, Kroc RL.
New York, Plenum Pub, 1972. \$27.50.

The Pituitary Gland. Vol. 1, 586 pp.; Vol. 2, 670 pp.; Vol. 3, 678 pp.
Harris GW, Donovan BT.
Berkeley, U of Cal Pr, 1966. Single vol., \$25.00; 3-vol set, \$75.00.

Human Endocrinology: A Developmental Approach. 479 pp.
Vilee DB.
Philadelphia, Saunders, 1975. \$16.75.

Treatment and Management of Obesity. 149 pp.
Bray GA, Bethune JE.
Hagerstown, Maryland, Harper & Row, 1974. \$7.50.

Journals

Recent Progress in Hormone Research
Irregular, Vol. 29, 1973, \$37.50.

Journal of Clinical Investigation
Monthly, \$60.00.

Endocrinology
Monthly, \$35.00.

Physiological Reviews
Quarterly, \$20.00.

Metabolism: Clinical and Experimental
Monthly, \$34.00.

Journal of Clinical Endocrinology and Metabolism
Monthly, \$35.00.

Hormone and Metabolic Research
Bimonthly, \$52.40.

GASTROENTEROLOGY (46/61)

GENERAL INTERNIST

Books

Gastrointestinal Disease. Pathophysiology—Diagnosis—Management. 1659 pp.
Sleisenger MH, Fordham J (eds.).
Philadelphia, Saunders, 1973. \$37.50.

Clinical Gastroenterology, 2nd ed. Approx. 1120 pp.
Spiro HM.
New York, Macmillan, 1976. Approx. \$45.00.

Diseases of the Liver and Biliary System, 5th ed. 821 pp.
Sherlock S.
Philadelphia, Lippincott/Blackwell, 1975. \$49.50.

Diseases of the Liver, 4th ed. 1461 pp.
Schiff L.
Philadelphia, Lippincott, 1975. \$69.00.

Gastroenterology, 3rd ed. Vol. 1, 1148 pp.; Vol. 2, 1172 pp.
Bockus HL (ed.).
Philadelphia, Saunders, Vol. 1, 1974, \$35.00; Vol. 2, 1976, approx. \$35.00; Vol. 3 and Vol. 4, in prep.

Journals

Gastroenterology
Monthly, \$35.00.

New England Journal of Medicine
Weekly, \$22.00.

Annals of Internal Medicine
Monthly, \$21.00.

Gut
Monthly, \$46.50.

American Journal of Digestive Diseases
Monthly, \$27.50.

INTERNISTS SPECIALIZING IN GASTROENTEROLOGY

Books

Gastrointestinal Disease. Pathophysiology—Diagnosis—Management. 1659 pp.
Sleisenger MH, Fordham J (eds.).
Philadelphia, Saunders, 1973. \$37.50.

Diseases of the Liver, 4th ed. 1461 pp.
Schiff L.
Philadelphia, Lippincott, 1975. \$69.00.

Gastroenterology, 3rd ed. Vol. 1, 1148 pp.; Vol. 2, 1172 pp.
Bockus HL (ed.).
Philadelphia, Saunders, Vol. 1, 1974, \$35.00; Vol. 2, 1976, approx. \$35.00; Vol. 3 and Vol. 4, in prep.

Diseases of the Liver and Biliary System, 5th ed. 821 pp.
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Philadelphia, Lippincott/Blackwell, 1975. \$49.50.

Clinical Gastroenterology, 2nd ed. 1120 pp.
Spiro HM.
New York, Macmillan, 1976. Approx. \$45.00.

Journals

Gastroenterology
Monthly, \$35.00.

Gut
Monthly, \$46.50.

Gastroenterology continued

American Journal of Digestive Diseases
Monthly, \$27.50.

New England Journal of Medicine
Weekly, \$22.00.

Viewpoints on Digestive Diseases
Irregular, \$3.00.

IN-DEPTH STUDY

Books

The Alimentary Canal, Sec. 6 of *Handbook of Physiology*.
2896 pp.

Code CF (ed.), American Physiological Society.
Baltimore, Williams & Wilkins, Vol. 1, 1967, \$22.00; Vol. 2,
1967, \$32.00; Vol. 3, 1968, \$22.00; Vol. 4, 1968, \$38.50;
Vol. 5, 1968, \$30.00.

Alimentary Tract Roentgenology, 2nd ed. 2 vols. 1802 pp.
Margulis AR, Burhenne HJ (eds.).
St. Louis, Mosby, 1973. \$125.00.

Progress in Liver Diseases. Vol. 1, 363 pp.; Vol. 2, 586 pp.;
Vol. 3, 580 pp.; Vol. 4, 672 pp.
Popper HP, Schaffner F (eds.).
New York, Grune & Stratton, Vol. 1, 1961, \$13.75, out of
print; Vol. 2, 1965, \$32.00; Vol. 3, 1968, \$34.75; Vol. 4,
1972, \$38.25.

Gastrointestinal Hormones. 661 pp.
Thompson JC (ed.).
Austin, Texas, U of Tex Pr, 1975. \$15.00.

Physiology of the Digestive Tract, 3rd ed. 229 pp.
Davenport HW.
Chicago, Year Bk Med, 1971. Paper, \$7.95; Cloth, \$10.00.

Radiology of the Small Intestine, 2nd ed. Approx. 704 pp.
Marshak RH, Lindner AE.
Philadelphia, Saunders, 1976, in prep.

Gastrointestinal Pathology, 676 pp.
Morson BC, Dawson IMP.
Philadelphia, Lippincott/Blackwell, 1972. \$55.00.

The Metabolic Basis of Inherited Disease, 3rd ed. 1778 pp.
Stanbury JB, et al. (eds.).
New York, McGraw-Hill, 1972. \$51.00.

Journals

Journal of Clinical Investigation
Monthly, \$60.00.

Gastroenterology
Monthly, \$35.00.

New England Journal of Medicine
Weekly, \$22.00.

Gut
Monthly, \$46.50.

Scandinavian Journal of Gastroenterology
Irregular, \$61.00.

Annals of Surgery
Monthly, \$23.00.

Diseases of the Colon and Rectum
Irregular, \$22.00.

Surgery, Gynecology and Obstetrics
Monthly, \$20.00.

Annals of Internal Medicine
Monthly, \$21.00.

GENETICS (HUMAN) (30/47)

GENERAL INTERNIST

Books

Mendelian Inheritance in Man: Catalogs of Autosomal Dominant, Autosomal Recessive, and X-Linked Phenotypes, 4th ed. 928 pp.
McKusick VA.
Baltimore, Johns Hopkins, 1975. \$17.50.

Genetics in Medicine, 2nd ed. 400 pp.
Thompson JS, Thompson MW.
Philadelphia, Saunders, 1973. \$10.00.

Human Genetics, 2nd ed. 221 pp.
McKusick VA.
Englewood Cliffs, New Jersey, Prentice-Hall, 1969. Paper,
\$4.95; Cloth, \$6.95.

The Principles of Human Biochemical Genetics. 328 pp.
Harris H.
New York, Am Elsevier, 1970. Paper, \$8.95; Cloth, \$15.00.

The Metabolic Basis of Inherited Disease, 3rd ed. 1778 pp.
Stanbury JB, et al.
New York, McGraw-Hill, 1972. \$51.00.

Journals

Lancet
Weekly, \$25.00.

Journal of Medical Genetics
Quarterly, \$22.00.

New England Journal of Medicine
Weekly, \$22.00.

Clinical Genetics
Irregular, \$78.50.

American Journal of Human Genetics
Bimonthly, \$30.00.

INTERNISTS SPECIALIZING IN GENETICS

Books

The Metabolic Basis of Inherited Disease, 3rd ed. 1778 pp.
Stanbury JB, et al.
New York, McGraw-Hill, 1972. \$51.00.

Mendelian Inheritance in Man: Catalogs of Autosomal Dominant, Autosomal Recessive, and X-Linked Phenotypes, 4th ed. 928 pp.
McKusick VA.
Baltimore, Johns Hopkins, 1975. \$17.50.

The Principles of Human Biochemical Genetics. 328 pp.
Harris H.
New York, Am Elsevier, 1970. Paper, \$8.95; Cloth, \$15.00.

Principles of Human Genetics, 3rd ed. 891 pp.
Stern C (ed.).
San Francisco, WH Freeman, 1973. \$13.95.

Human Cytogenetics. Vol. 1, 422 pp.; Vol. 2, 548 pp.
Hamerton JL.
New York, Acad Pr; Vol. 1, 1970, \$24.00; Vol. 2, 1971, \$33.00.

Journals

American Journal of Human Genetics
Bimonthly, \$30.00.

Genetics (Human) continued

Annals of Human Genetics
Quarterly, \$36.00.

Progress in Medical Genetics
Irregular, \$22.50.

Science
Weekly, \$57.00.

Clinical Genetics
Irregular, \$78.90.

Journal of Medical Genetics
Quarterly, \$22.00.

IN-DEPTH STUDY

Books

Heritable Disorders of Connective Tissue, 4th ed. 878 pp.
McKusick VA.
St. Louis, Mosby, 1972. \$39.50.

Blood Groups in Man, 5th ed. 599 pp.
Race RR, Sanger R.
Philadelphia, Lippincott, 1968. \$19.00.

Genetic Disorders of the Endocrine Glands. 383 pp.
Rimoin DL, Shimke RN.
St. Louis, Mosby, 1971. \$37.50.

Genetic Markers in Human Blood. 629 pp.
Giblett ER.
Philadelphia, Davis Co., 1969. \$15.00.

Advances in Human Genetics, Ser. Vol. 5. 385 pp.
Harris H, Hirschorn K (eds.).
New York, Plenum Pub, 1975. \$32.50.

Advances in Human Genetics, Vol. 3. 480 pp.
Harris H, Hirschorn K (eds.).
New York, Plenum Pub, 1972. \$29.50.

The Principles of Human Biochemical Genetics. 328 pp.
Harris H.
New York, Am Elsevier, 1970. Paper, \$8.95; Cloth, \$15.00.

The Metabolic Basis of Inherited Disease, 3rd ed. 1778 pp.
Stanbury JB, et al.
New York, McGraw-Hill, 1972, \$51.00.

Journals

Cytogenetics & Cell Genetics
Bimonthly, \$160.00.

Nature
Weekly, \$94.00.

Biochemical Genetics
Monthly, \$72.00.

American Journal of Human Genetics
Bimonthly, \$30.00.

Annals of Human Genetics
Quarterly, \$36.00.

Progress in Medical Genetics
Irregular, \$22.50.

Science
Weekly, \$57.00.

Journal of Medical Genetics
Quarterly, \$22.00.

HEMATOLOGY (59/74)

GENERAL INTERNIST

Books

Hematology. 1480 pp.
Williams WJ, et al.
New York, McGraw-Hill, 1972. \$32.50.

Clinical Hematology, 7th ed. 1896 pp.
Wintrobe MM, et al.
Philadelphia, Lea & Febiger, 1974. \$42.50.

Fundamentals of Clinical Hematology, 3rd ed. 659 pp.
Leavell BS, Thorup OA Jr.
Philadelphia, Saunders, 1971. \$18.00.

Hematology. 1055 pp.
Linman JW.
New York, Macmillan, 1975. \$34.95.

Hematology for Internists. 467 pp.
Weed RI (ed.).
Boston, Little, Brown, 1971. \$16.50.

Hematology: Principles and Practice. 746 pp.
Mengel CE, et al. (eds.).
Chicago, Year Bk Med, 1971. \$22.00.

Journals

New England Journal of Medicine
Weekly, \$22.00.

Annals of Internal Medicine
Monthly, \$21.00.

Seminars in Hematology
Quarterly, \$21.50.

Blood: Journal of Hematology
Monthly, \$39.00.

American Journal of Medicine
Monthly, \$20.00.

INTERNISTS SPECIALIZING IN HEMATOLOGY

Books

Hematology. 1480 pp.
Williams WJ, et al.
New York, McGraw-Hill, 1972. \$32.50.

Clinical Hematology, 7th ed. 1896 pp.
Wintrobe MM, et al.
Philadelphia, Lea & Febiger, 1974. \$42.50.

Red Cell: Production, Metabolism, Destruction, Normal and Abnormal, revised ed. 795 pp.
Harris JW, Kellermeyer R.
Cambridge, Harvard U Pr, 1970. Paper, \$8.00; Cloth, \$13.00.

Human Blood Coagulation, Haemostasis and Thrombosis, 2nd ed. Approx. 752 pp.
Biggs R.
Philadelphia, Lippincott/Blackwell, 1975. Approx. \$57.00.

Leukemia, 3rd ed. 864 pp.
Gunz F, Balkie AG.
New York, Grune & Stratton, 1974. \$37.50.

Journals

Blood: Journal of Hematology
Monthly, \$39.00.

British Journal of Haematology
Monthly, \$75.00.

Hematology continued

Seminars in Hematology
Quarterly, \$21.50.

Cancer
Monthly, \$25.00.

New England Journal of Medicine
Weekly, \$22.00.

IN-DEPTH STUDY

Books

Red Cell: Production, Metabolism, Destruction, Normal and Abnormal, revised ed. 795 pp.

Harris JW, Kellermeyer R.
Cambridge, Harvard U Pr, 1970. Paper, \$8.00; Cloth, \$13.00.

Human Blood Coagulation, Haemostasis and Thrombosis, 2nd ed. Approx. 752 pp.

Biggs R.
Philadelphia, Lippincott/Blackwell, 1975. Approx. \$57.00.

Blood Transfusion in Clinical Medicine, 5th ed. 830 pp.

Mollison PL.
Philadelphia, Lippincott/Blackwell, 1972. \$32.00.

Leukemia, 3rd ed. 864 pp.

Gunz F, Balkie AG.
New York, Grune & Stratton, 1974. \$37.50.

The Thalassemia Syndromes, 2nd ed. 320 pp.

Weatherall DJ, Clegg JB.
Philadelphia, Lippincott/Blackwell, 1972. \$27.00.

Hematology of Infancy and Childhood. 904 pp.

Nathan DG, Oski FA (eds.).
Philadelphia, Saunders, 1971. \$37.50.

Man's Haemoglobins: Including the Haemoglobinopathies and Their Investigation, 2nd ed. 478 pp.

Lehmann H, Huntsman RG.
Philadelphia, Lippincott, 1974. \$32.00.

Genetic Markers in Human Blood. 656 pp.

Giblett ER.
Philadelphia, Lippincott, 1969. \$16.00.

Living Blood Cells and Their Ultrastructure. 767 pp.

Bessis M. (Tr. from French by R. I. Weed.)
New York, Springer-Verlag, 1973. \$68.90.

Journals

Progress in Hematology
Irregular-Vol. 8/1973, \$24.75.

Seminars in Hematology
Quarterly, \$21.50.

British Journal of Haematology
Monthly, \$75.00.

Blood: Journal of Hematology
Monthly, \$39.00.

Transfusion
Bimonthly, \$16.00.

Series Haematologica
Quarterly, \$45.05.

Journal of Laboratory and Clinical Medicine
Monthly, \$22.50.

Cancer
Monthly, \$25.00.

IMMUNOLOGY* (37/68)

GENERAL INTERNIST

Books

Immunological Diseases, 2nd ed. 1384 pp.

Samter M (ed.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

Immunology for Students of Medicine, 3rd ed. 498 pp.

Humphrey JH, White RG.
Philadelphia, Lippincott, 1970. \$18.00.

Essential Immunology, 2nd ed. 264 pp.

Roitt IM.
Philadelphia, Lippincott/Blackwell, 1974. Paper, \$10.65.

Clinical Aspects of Immunology, 3rd ed. 1790 pp.

Gell PGH, et al.
Philadelphia, Lippincott, 1975. \$79.00.

Immunology. 584 pp.

Bellanti JA.
Philadelphia, Saunders, 1971. \$15.75.

Journals

New England Journal of Medicine
Weekly, \$22.00.

Clinical and Experimental Immunology
Monthly, \$175.00.

Annals of Internal Medicine

Monthly, \$21.00.

Advances in Immunology

Irregular, \$31.00.

Journal of Immunology

Monthly, \$60.00.

INTERNISTS SPECIALIZING IN IMMUNOLOGY

Books

Immunological Diseases, 2nd ed. 1384 pp.

Samter M (ed.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

Clinical Aspects of Immunology, 3rd ed. 1790 pp.

Gell PGH, et al.
Philadelphia, Lippincott, 1975. \$79.00.

Clinical Immunobiology, Vol. 1. 296 pp.

Bach FH, Good RA (eds.).
New York, Acad Pr, 1972. \$13.00.

Immunology. 584 pp.

Bellanti JA.
Philadelphia, Saunders, 1971. \$15.75.

Essential Immunology, 2nd ed. 264 pp.

Roitt IM.
Philadelphia, Lippincott/Blackwell, 1974. Paper, \$10.65.

Textbook of Immunopathology, 2nd ed.

Miescher PA, Mueller-Eberhard HJ (eds.).
New York, Grune & Stratton, Vol. 1. Vol. 2, 1976, in prep.

Journals

Journal of Immunology

Monthly, \$60.00.

Journal of Experimental Medicine

Monthly, \$70.00.

* See Allergy.

Immunology continued

Advances in Immunology
Irregular, \$31.00.

Clinical and Experimental Immunology
Monthly, \$175.00.

Journal of Allergy and Clinical Immunology
Monthly, \$20.50.

IN-DEPTH STUDY

Books

Basic Immunogenetics. 221 pp.
Fudenberg HH, et al.
Fair Lawn, New Jersey, Oxford U Pr, 1972. Cloth, \$8.95;
paper, \$5.95.

Cellular Selection and Regulation in the Immune Response,
Society of General Physiologists Ser. Vol. 29. 299 pp.
Edelman GM (ed.).
New York, Raven, 1974. \$25.00.

Textbook of Immunopathology, 2nd ed.
Miescher PA, Mueller-Eberhard HJ (eds.).
New York, Grune & Stratton, Vol. 1 and Vol. 2, 1976, in prep.

Clinical Aspects of Immunology, 3rd ed. 1790 pp.
Gell PGH, et al.
Philadelphia, Lippincott, 1975. \$79.00.

Immunological Diseases, 2nd ed. 1384 pp.
Samter M (ed.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

*Methods in Immunology: A Laboratory Text for Instruction
and Research*, 2nd ed. 480 pp.
Campbell D, et al.
W. A. Benjamin, Inc. Advanced Book Program, 1970. 2nd
printing, with corrections, 1974. \$19.50.

Progress in Immunology (Proceedings of the First International
Congress of Immunology). 1554 pp.
Amos B (ed.).
New York, Acad Pr, 1971. \$86.00.

Contemporary Topics in Immunology, Vol. 1. 188 pp.
Hanna MG Jr.
New York, Plenum Pub, 1972. \$19.50.

Journals

Journal of Immunology
Monthly, \$60.00.

Cellular Immunology
Monthly, \$183.00.

Journal of Experimental Medicine
Monthly, \$70.00.

Immunology
Monthly, \$105.00.

Immunochemistry
Monthly, \$90.00.

Transplantation
Monthly, \$40.00.

Advances in Immunology
Irregular, \$31.00.

Clinical and Experimental Immunology
Monthly, \$175.00.

Clinical Immunology and Immunopathology
Irregular, \$76.00.

INFECTIOUS DISEASES (80/128)

GENERAL INTERNIST

Books

Textbook of Medicine, 14th ed. 1892 pp.
Beeson PB, McDermott W (eds.).
Philadelphia, Saunders, 1975. Single vol., \$34.50; 2-vol. set,
\$40.00.

Harrison's Principles of Internal Medicine, 7th ed. 2223 pp.
Wintrobe MM, et al. (eds.).
New York, McGraw-Hill, 1974. Single vol., \$33.00; 2-vol. set,
\$40.00.

*Infectious Diseases: A Guide to the Understanding and Man-
agement of Infectious Processes*. 1392 pp.
Hoeprich PD (ed.).
Hagerstown, Maryland, Harper & Row, 1972. \$49.50.

Clinical Concepts of Infectious Diseases. 431 pp.
Cluff L, Johnson J (eds.).
Baltimore, Williams & Wilkins, 1972. \$17.50.

Infectious Diseases of Children and Adults, 5th ed. 494 pp.
Krugman S, Ward R.
St. Louis, Mosby, 1973. \$27.00.

Journals

New England Journal of Medicine
Weekly, \$22.00.

Annals of Internal Medicine
Monthly, \$21.00.

Lancet
Weekly, \$25.00.

Medical Letter on Drugs and Therapeutics
Biweekly, \$19.50.

Journal of Infectious Diseases
Monthly, \$25.00.

INTERNISTS SPECIALIZING IN INFECTIOUS DISEASES

Books

*Infectious Diseases: A Guide to the Understanding and Man-
agement of Infectious Processes*. 1392 pp.
Hoeprich PD (ed.).
Hagerstown, Maryland, Harper & Row, 1972. \$49.50.

Infectious Diseases of Children and Adults, 5th ed. 494 pp.
Krugman S, Ward R.
St. Louis, Mosby, 1973. \$27.00.

Clinical Concepts of Infectious Diseases. 431 pp.
Cluff L, Johnson J (eds.).
Baltimore, Williams & Wilkins, 1972. \$17.50.

Textbook of Medicine, 14th ed. 1892 pp.
Beeson PB, McDermott W (eds.).
Philadelphia, Saunders, 1975. Single vol., \$34.50; 2-vol. set,
\$40.00.

*Communicable and Infectious Diseases: Diagnosis, Prevention,
Treatment*, 8th ed. Approx. 1000 pp.
Top FH Sr, Wehrle PF (eds.).
St. Louis, Mosby, 1976, in prep. Approx. \$45.00.

Journals

Journal of Infectious Diseases
Monthly, \$25.00.

Infectious Diseases continued

Infection and Immunity
Monthly, \$60.00.

New England Journal of Medicine
Weekly, \$22.00.

Antibiotics and Chemotherapy
Irregular, \$31.00.

Annals of Internal Medicine
Monthly, \$21.00.

IN-DEPTH STUDY

Books

Microbiology, 2nd ed. 1584 pp.
Davis BD, et al. (eds.).
Hagerstown, Maryland, Harper & Row, 1973. \$33.50.

Topley & Wilson's Principles of Bacteriology & Immunity, 6th ed. 2840 pp.
Wilson GS, Miles AA (eds.).
Baltimore, Williams & Wilkins, 1975. 2 vols., \$155.00.

Manual of Clinical Mycology, 3rd ed. 755 pp.
Conant NF, et al.
Philadelphia, Saunders, 1971. \$13.50.

Progress in Medical Virology, Progress in Medical Virology, Vol. 19. 352 pp.
Melnick JL (ed.).
White Plains, New York, Phiebig, 1975. \$71.00.

Infection Control in the Hospital, 3rd ed. 198 pp.
American Hospital Association
Chicago, Am Hospital, 1974. \$6.50.

Slow Virus Diseases, Progress in Medical Virology. Vol. 18. 370 pp.
Hotchin J.
S. Karger, 1974. \$62.00.

Communicable and Infectious Diseases: Diagnosis, Prevention, Treatment, 8th ed. Approx. 1000 pp.
Top FH Sr, Wehrle PF (eds.).
St. Louis, Mosby, 1976, in prep. Approx. \$45.00.

The Herpesviruses. 739 pp.
Kaplan AS.
New York, Acad Pr, 1974. \$31.00.

Journals

Journal of Immunology
Monthly, \$60.00.

Journal of Experimental Medicine
Monthly, \$70.00.

Infection and Immunity
Monthly, \$60.00.

Journal of Infectious Diseases
Monthly, \$25.00.

American Journal of Epidemiology
Monthly, \$40.00.

American Review of Respiratory Diseases
Monthly, \$35.00.

Antibiotics and Chemotherapy
Irregular, \$31.00.

American Journal of Tropical Medicine and Hygiene
Bimonthly, \$30.00.

ONCOLOGY (70/102)

GENERAL INTERNIST

Books

Cancer Medicine. 2018 pp.
Holland JF, Frei E III (eds.).
Philadelphia, Lea & Febiger, 1973. \$90.00.

Cancer—Diagnosis, Treatment and Prognosis, 4th ed. 1049 pp.
Ackerman LV, del Regato JA.
St. Louis, Mosby, 1970. \$51.50.

Hematology. 1480 pp.
Williams WJ, et al.
New York, McGraw-Hill, 1972. \$32.50.

Cancer Chemotherapy, 2nd ed. 464 pp.
Greenwald ES.
Flushing, New York, Med Exam, 1973. \$10.00. Supplement, 1974. \$2.50.

Cancer Chemotherapy, 2nd ed. 320 pp.
Cline MJ, Haskell CM.
Philadelphia, Saunders, 1975. \$16.00.

Journals

Cancer
Monthly, \$25.00.

Annals of Internal Medicine
Monthly, \$21.00.

CA: Cancer Journal for Clinicians
Bimonthly, Free

New England Journal of Medicine
Weekly, \$22.00.

Seminars in Hematology
Quarterly, \$21.50.

INTERNISTS SPECIALIZING IN ONCOLOGY

Books

Cancer Medicine. 2018 pp.
Holland JF, Frei E III (eds.).
Philadelphia, Lea & Febiger, 1973. \$90.00.

Cancer—Diagnosis, Treatment and Prognosis, 4th ed. 1049 pp.
Ackerman LV, del Regato JA.
St. Louis, Mosby, 1970. \$51.50.

Year Book of Cancer, Published annually; 1975. 515 pp.
Clark RL, Cumley RW (eds.).
Chicago, Year Bk Med, 1975, \$6.55.

Hodgkin's Disease (Commonwealth Fund). 480 pp.
Kaplan HS.
Cambridge, Massachusetts, Harvard U Pr, 1972. \$16.50.

Medical Oncology. 588 pp.
Bagshawe KD.
Philadelphia, Lippincott/Blackwell, 1975. \$52.50.

Journals

Cancer
Monthly, \$25.00.

Cancer Chemotherapy Reports
Monthly, \$38.35.

Cancer Research
Monthly, \$75.00.

Oncology continued

Seminars in Oncology
Quarterly, \$19.50.

Blood: Journal of Hematology
Monthly, \$39.00.

New England Journal of Medicine
Weekly, \$22.00.

IN-DEPTH STUDY

Books

Hodgkin's Disease (Commonwealth Fund). 480 pp.
Kaplan HS.
Cambridge, Massachusetts, Harvard U Pr. 1972. \$16.50.

Estrogen Receptors in Human Breast Cancer: A National Cancer Institute Symposium Monograph. 298 pp.
McGuire WL, et al. (eds.).
New York, Raven, 1975. \$19.75.

Cancer Medicine. 2018 pp.
Holland JF, Frei E III (eds.).
Philadelphia, Lea & Febiger, 1973. \$90.00.

Cancer: A Comprehensive Treatise; Vol. 1, *Etiology: Chemical & Physical Carcinogenesis*, 500 pp; Vol. 2, *Etiology: Viral Carcinogenesis*, approx. 450 pp; Vol. 3, *Biology of Tumors: Cellular Biology and Growth*, approx. 480 pp; Vol. 4, *Biology of Tumors: Surfaces, Immunology, and Comparative Pathology*, approx. 450 pp.

Becker FF.
New York, Plenum Pr, 1975. Vol. 1, \$37.50; Vol. 2, \$37.50; Vol. 3, \$37.50; Vol. 4, \$37.50.

Radiation Oncology: Rationale, Technique, Results, 4th ed., 622 pp.
Moss WT, et al.
St. Louis, Mosby, 1973. \$33.50.

Diseases of the Breast, Revised 2nd ed. 829 pp.
Haagensen CD.
Philadelphia, Saunders, 1974. \$37.50.

Hematology. 1480 pp.
Williams WJ, et al.
New York, McGraw, 1972. \$32.50.

Journals

Cancer Research
Monthly, \$75.00.

Journal of the National Cancer Institute
Monthly, \$58.45

Cancer Chemotherapy Reports
Monthly, \$38.35.

Seminars in Hematology
Quarterly, \$21.50.

Cancer
Monthly, \$25.00.

European Journal of Cancer
Monthly, \$100.00.

British Journal of Cancer
Bimonthly, \$49.35.

Oncology: Journal of Clinical and Experimental Cancer Research
Monthly, \$144.00.

Internal Journal of Cancer
Monthly, \$148.30.

PULMONARY DISEASE (63/78)

GENERAL INTERNIST

Books

Textbook of Pulmonary Diseases, 2nd ed. 1076 pp.
Baum GL (ed.).
Boston, Little, Brown, 1974. \$55.00.

Respiratory Function in Disease, 2nd ed. 584 pp.
Bates DV, et al.
Philadelphia, Saunders, 1971. \$24.00.

Diagnosis of Diseases of the Chest: An Integrated Study Based on the Abnormal Roentgenogram. 1446 pp.
Fraser RG, Pare JAP.
Philadelphia, Saunders, 1970. 2 vols., \$48.00.

Physiology of Respiration: An Introductory Text, 2nd ed. 316 pp.
Comroe JH.
Chicago, Year Bk Med, 1974. \$12.95.

Respiratory Diseases. 734 pp.
Crofton JW, Douglas A.
Philadelphia, Lippincott, 1969. \$27.50.

Journals

American Review of Respiratory Diseases
Monthly, \$35.00.

New England Journal of Medicine
Weekly, \$22.00.

Chest
Monthly, \$28.00.

Annals of Internal Medicine
Monthly, \$21.00.

American Journal of Medicine
Monthly, \$20.00.

INTERNISTS SPECIALIZING IN PULMONARY DISEASE

Books

Respiratory Function in Disease, 2nd ed. 584 pp.
Bates DV, et al.
Philadelphia, Saunders, 1971. \$24.00.

Diagnosis of Diseases of the Chest: An Integrated Study Based on the Abnormal Roentgenogram. 1446 pp.
Fraser RG, Pare JAP.
Philadelphia, Saunders, 1970. 2 vols., \$48.00.

Textbook of Pulmonary Diseases, 2nd ed. 1076 pp.
Baum GL (ed.).
Boston, Little, Brown, 1974. \$55.00.

Physiology of Respiration: An Introductory Text, 2nd ed. 316 pp.
Comroe JH.
Chicago, Year Bk Med, 1974. \$12.95.

Chest Roentgenology. 574 pp.
Felson B.
Philadelphia, Saunders, 1973. \$17.00.

Journals

American Review of Respiratory Diseases
Monthly, \$35.00.

Chest
Monthly, \$28.00.

Pulmonary Disease continued

Thorax
Bimonthly, \$32.00.

Journal of Applied Physiology
Monthly, \$55.00.

New England Journal of Medicine
Weekly, \$22.00.

IN-DEPTH STUDY

Books

Handbook of Physiology, Section 3: *Respiration*. 1696 pp.
Fenn WO, Rahn H (eds.). Amer. Physiological Society.
Baltimore, Williams & Wilkins; Vol. 1, 1964, \$32.00; Vol. 2,
1965, \$28.00.

Ventilation/Blood Flow and Gas Exchange, 2nd ed. 142 pp.
West JB.
Philadelphia, Lippincott/Blackwell, 1970. \$6.00.

Pathology of the Lung, 2nd ed. 1146 pp.
Spencer H.
Elmsford, New York, Pergamon, 1968. \$45.00.

The Lung, International Academy of Pathology Monograph
No. 8. 400 pp.
Liebow AA (ed.).
Baltimore, Williams & Wilkins, 1968. \$16.00.

The Respiratory Muscle: Mechanics and Neural Control, 2nd
ed. 348 pp.
Campbell EJM, et al.
Philadelphia, Saunders, 1970. \$14.00.

Respiratory Function in Disease, 2nd ed. 584 pp.
Bates DV, et al.
Philadelphia, Saunders, 1971. \$24.00.

*Diagnosis of Diseases of the Chest: An Integrated Study Based
on the Abnormal Roentgenogram*. 1446 pp.
Fraser RG, Pare JAP.
Philadelphia, Saunders, 1970. 2 vols., \$48.00.

Lung Function: Assessment and Application in Medicine, 3rd
ed. 619 pp.
Cotes JE.
Philadelphia, Lippincott/Blackwell, 1975. \$50.00.

Journals

Journal of Applied Physiology
Monthly, \$55.00.

Respiration Physiology
Bimonthly, \$105.60.

Journal of Clinical Investigation
Monthly, \$60.00.

Thorax
Bimonthly, \$32.00.

American Review of Respiratory Diseases
Monthly, \$35.00.

Respiration: International Review of Thoracic Diseases
Bimonthly, \$78.00.

Journal of Thoracic and Cardiovascular Surgery
Monthly, \$32.50.

Tubercle
Quarterly, \$19.85.

New England Journal of Medicine
Weekly, \$22.00.

RENAL DISEASE AND ELECTROLYTES (44/55)

Renal Disease

GENERAL INTERNIST

Books

Diseases of the Kidney, 2nd ed. 1456 pp.
Strauss MB, Welt LG (eds.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

Renal Disease, 3rd ed. 860 pp.
Black DA (ed.).
Philadelphia, Lippincott, 1973. \$49.00.

Clinical Nephrology. 539 pp.
Papper S.
Boston, Little, Brown, 1971. \$17.50.

*Physiology of the Kidney and Body Fluids: An Introductory
Text*, 3rd ed. 307 pp.
Pitts RF.
Chicago, Year Bk Med, 1974. \$12.95.

Clinical Disorders of Fluid & Electrolyte Metabolism, 2nd ed.
1056 pp.
Maxwell MH, Kleeman CR (eds.).
New York, McGraw-Hill, 1972. \$34.00.

INTERNISTS SPECIALIZING IN RENAL DISEASE

Books

Diseases of the Kidney, 2nd ed. 1456 pp.
Strauss MB, Welt LG (eds.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

Pathology of the Kidney, 2nd ed. 1170 pp.
Heptinstall RH.
Boston, Little, Brown, 1974. 2-vol. set, \$50.00.

Renal Disease, 3rd ed. 860 pp.
Black DA (ed.).
Philadelphia, Lippincott, 1973. \$49.00.

Nephrology. 1312 pp.
Hamburger J, et al (eds.).
Philadelphia, Saunders, 1968. 2 vols., \$50.00.

*Physiology of the Kidney and Body Fluids: An Introductory
Text*, 3rd ed. 307 pp.
Pitts, RF.
Chicago, Year Bk Med, 1974. \$12.95.

Clinical Disorders of Fluid & Electrolyte Metabolism, 2nd ed.
1056 pp.
Maxwell MH, Kleeman CR (eds.).
New York, McGraw-Hill, 1972. \$34.00.

IN-DEPTH STUDY

Books

Pathology of the Kidney, 2nd ed. 1170 pp.
Heptinstall RH.
Boston, Little, Brown, 1974. 2-vol. set, \$50.00.

Diseases of the Kidney, 2nd ed. 1456 pp.
Strauss MB, Welt LG ((eds.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

*Physiology of the Kidney and Body Fluids: An Introductory
Text*, 3rd ed. 307 pp.
Pitts RF.
Chicago, Year Bk Med, 1974. \$12.95.

Renal Disease and Electrolytes continued

Clinical Disorders of Fluid & Electrolyte Metabolism, 2nd ed. 1056 pp.

Maxwell MH, Kleeman CR (eds.).
New York, McGraw-Hill, 1972. \$34.00.

Drugs and the Kidney, Progress in Biochemical Pharmacology, Vol. 9. 278 pp.

Edwards KDG (ed.).
White Plains, New York, Phiebig, 1974. \$60.20.

Nephrology. 1312 pp.

Hamburger J, et al (eds.).
Philadelphia, Saunders, 1968. 2 vols., \$50.00.

Renal Dialysis. 152 pp.

Whelpton D.
Philadelphia, Lippincott, 1974. \$16.00.

Control of Renin Secretion (Advances in Experimental Medicine and Biology Ser.). 290 pp.

Assaykeen TA.
New York, Plenum Pub, 1972. \$17.50.

Glomerulonephritis: Morphology, Natural History, and Treatment. 1328 pp. Kincaid-Smith P, et al.

New York, Wiley, 1973. 2-vol. set, \$50.00.

Fluids & Electrolytes

GENERAL INTERNIST

Books

Clinical Disorders of Fluid and Electrolyte Metabolism, 2nd ed. 1056 pp.

Maxwell MH, Kleeman C.
New York, McGraw-Hill, 1972. \$34.00.

Fundamentals of Acid-Base Regulation, 5th ed. 128 pp.

Robinson JR.
Philadelphia, Lippincott/Blackwell, 1975.

Diseases of the Kidney, 2nd ed. 1456 pp.

Strauss MB, Welt LG (eds.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

INTERNISTS SPECIALIZING IN FLUIDS AND ELECTROLYTES

Books

Clinical Disorders of Fluid and Electrolyte Metabolism, 2nd ed. 1056 pp.

Maxwell MH, Kleeman C.
New York, McGraw-Hill, 1972. \$34.00.

Diseases of the Kidney, 2nd ed. 1456 pp.

Strauss MB, Welt LG (eds.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

Principles of Applied Clinical Chemistry—Chemical Background and Medical Application, Vol. 1: Maintenance of Fluid and Electrolyte Balance. Approx. 300 pp.

Natelson S, Natelson EA.
New York, Plenum Pub, 1975. \$22.50.

Acid-Base Balance. 409 pp.

Hills AG.
Baltimore, Williams & Wilkins, 1973. Paper, \$19.50; cloth, \$24.50.

IN-DEPTH STUDY

Books

Acid-Base Balance. 409 pp.

Hills AG.

Baltimore, Williams & Wilkins, 1973. Paper, \$19.50; cloth, \$24.50.

Clinical Disorders of Fluid and Electrolyte Metabolism, 2nd ed. 1056 pp.

Maxwell MH, Kleeman C.
New York, McGraw-Hill, 1972. \$34.00.

Principles of Applied Clinical Chemistry—Chemical Background and Medical Application, Vol. 1: Maintenance of Fluid and Electrolyte Balance. Approx. 300 pp.

Natelson S, Natelson EA.
New York, Plenum Pub, 1975. \$22.50.

Acid-Base and Blood Gas Regulation. 213 pp.

Filley GF.
Philadelphia, Lea & Febiger, 1971. \$10.50.

Diseases of the Kidney, 2nd ed. 1456 pp.

Strauss MB, Welt LG (eds.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

Clinical Application of Blood Gases. 210 pp.

Shapiro BA.
Chicago, Year Bk Med, 1973. \$10.75.

Fluid, Electrolyte and Nutrient Therapy in Surgery. 352 pp.

Mason EE.
Philadelphia, Lea & Febiger, 1974. \$12.50.

Renal Disease and Electrolytes

GENERAL INTERNIST

Journals

Annals of Internal Medicine
Monthly, \$21.00.

American Journal of Medicine
Monthly, \$20.00.

New England Journal of Medicine
Weekly, \$22.00.

Kidney International
Monthly, \$84.00.

Medicine
Bimonthly, \$16.00.

INTERNISTS SPECIALIZING IN RENAL DISEASE AND ELECTROLYTES

Journals

Kidney International
Monthly, \$84.00.

Nephron
Monthly, \$108.00.

Journal of Clinical Investigation
Monthly, \$60.00.

Annals of Internal Medicine
Monthly, \$21.00.

American Journal of Medicine
Monthly, \$20.00.

IN DEPTH STUDY

Journals

Journal of Clinical Investigation
Monthly, \$60.00.

Renal Disease and Electrolytes continued

Transactions: American Society for Artificial Internal Organs
Irregular, \$30.00.

Transplantation
Monthly, \$40.00.

Nephron
Monthly, \$108.00.

Kidney International
Monthly, \$84.00.

Clinical Science and Molecular Medicine
Monthly, \$100.00.

Journal of Physiology
Irregular, \$300.00.

Medicine
Bimonthly, \$16.00.

RHEUMATOLOGY (49/62)

GENERAL INTERNIST

Books

Arthritis and Allied Conditions, 8th ed. 1593 pp.
Hollander JL, et al.
Philadelphia, Lea & Febiger, 1972. \$38.50.

Primer on the Rheumatic Diseases, 7th ed, supplement to
JAMA Vol. 224, No. 5, 30 April 1973. 150 pp.
Rodman GP, et al. (eds.).
New York, American Rheumatism Association. \$1.00.

Clinical Rheumatology, 598 pp.
Boyle JA, Buchanan WW.
Philadelphia, Lippincott/Blackwell, 1971, \$48.00.

Laboratory Diagnostic Procedures in the Rheumatic Diseases,
2nd ed. 433 pp.
Cohen AS (ed.).
Boston, Little, Brown, 1975. \$22.50.

*Clinical Rheumatology: A Problem Oriented Approach to
Diagnosis and Management*. 331 pp.
Moskowitz RW.
Philadelphia, Lea & Febiger, 1975. \$14.00.

Journals

Arthritis and Rheumatism
Bimonthly, \$23.00.

Annals of Internal Medicine
Monthly, \$21.00.

Bulletin on the Rheumatic Diseases
9 issues per year, available from local chapter Arthritis Foundation.

Annals of Rheumatic Diseases
Bimonthly, \$32.00.

New England Journal of Medicine
Weekly, \$22.00.

INTERNISTS SPECIALIZING IN RHEUMATOLOGY

Books

Arthritis and Allied Conditions, 8th ed. 1593 pp.
Hollander JL, et al.
Philadelphia, Lea & Febiger, 1972. \$38.50.

Clinical Rheumatology. 598 pp.
Boyle JA, Buchanan WW.
Philadelphia, Lippincott/Blackwell, 1971. \$48.00.

Laboratory Diagnostic Procedures in the Rheumatic Diseases,
2nd ed. 433 pp.
Cohen AS (ed.).
Boston, Little, Brown, 1975. \$22.50.

Textbook of the Rheumatic Diseases, 4th ed. 959 pp.
Copeman WSC.
Baltimore, Williams & Wilkins, 1969. \$36.00.

Immunological Diseases, 2nd ed. 1384 pp.
Samter M (ed.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

Journals

Arthritis and Rheumatism
Bimonthly, \$23.00.

Annals of Rheumatic Diseases
Bimonthly, \$32.00.

Bulletin on the Rheumatic Diseases
9 issues per year, available from local chapter Arthritis Foundation.

The Journal of Rheumatology
Quarterly, \$20.00.

Scandinavian Journal of Rheumatology
Quarterly, \$26.25.

IN-DEPTH STUDY

Books

The Metabolic Basis of Inherited Disease, 3rd ed. 1778 pp.
Stanbury JB, et al (eds.).
New York, McGraw-Hill, 1972. \$51.00.

Heritable Disorders of Connective Tissue, 4th ed. 878 pp.
McKusick VA.
St. Louis, Mosby, 1972. \$39.50.

Immunological Diseases, 2nd ed. 1384 pp.
Samter M (ed.).
Boston, Little, Brown, 1971. 2 vols., \$55.00.

Biology of Degenerative Joint Disease. 162 pp.
Sokoloff L.
Chicago, U of Chicago Pr, 1969. \$6.50.

Laboratory Diagnostic Procedures in the Rheumatic Diseases,
2nd ed. 433 pp.
Cohen AS (ed.).
Boston, Little, Brown, 1975. \$22.50.

A Primer of Connective Tissue Biochemistry. 317 pp.
Schubert M, Hamerman D.
Philadelphia, Lea & Febiger, 1968. \$14.00.

*Metabolic Degenerative and Inflammatory Diseases of Bones
and Joints*. 1101 pp.
Jaffe HL.
Philadelphia, Lea & Febiger, 1972. \$35.00.

Local and Systemic Complications of Rheumatoid Arthritis.
175 pp.
Hollingsworth JW.
Philadelphia, Saunders, 1968. \$10.00.

Journals

Journal of Immunology
Monthly, \$60.00.

Journal of Experimental Medicine
Monthly, \$70.00.

Rheumatology continued

Clinical and Experimental Immunology
Monthly, \$175.00.

Medicine
Bimonthly, \$16.00.

Arthritis and Rheumatism
Bimonthly, \$23.00.

Annals of Rheumatic Diseases
Bimonthly, \$32.00.

Journal of Bone and Joint Surgery
Irregular, \$18.00.

Journal of Laboratory and Clinical Medicine
Monthly, \$22.50.

BASIC SCIENCES RELATED TO INTERNAL MEDICINE

BIOCHEMISTRY (31/43)

Books

Metabolic Basis of Inherited Disease, 3rd ed. 1824 pp.
Stanbury GB, et al. (eds.).
New York, McGraw-Hill, 1972. \$51.00.

Principles of Biochemistry, 5th ed. 1296 pp.
White A, et al.
New York, McGraw-Hill, 1973. Approx. \$25.00.

Review of Physiological Chemistry, 15th ed. 570 pp.
Harper HA.
Los Altos, California, Lange, 1975. \$10.00.

Cantarow & Trumper's Clinical Biochemistry, 7th ed. 918 pp.
Latner AL.
Philadelphia, Saunders, 1975. \$27.50.

The Biochemistry of Clinical Medicine, 4th ed. 856 pp.
Hoffman WS.
Chicago, Year Bk Med, 1970. \$19.00.

A Short Textbook of Clinical Biochemistry, 3rd ed. 247 pp.
Baron DN.
Philadelphia, Lippincott, 1973. Soft-bound, \$6.75.

Journals

American Journal of Medicine
Monthly, \$20.00.

Journal of Clinical Endocrinology and Metabolism
Monthly, \$35.00.

Journal of Clinical Investigation
Monthly, \$60.00.

Journal of Laboratory and Clinical Medicine
Monthly, \$22.50.

Diabetes
Monthly, \$28.00.

CLINICAL PHARMACOLOGY AND THERAPEUTICS (65/82)

Clinical Pharmacology

Books

The Pharmacological Basis of Therapeutics, 5th ed. 1704 pp.
Goodman LS, Gilman A (eds.).
New York, Macmillan, 1975. \$30.00.

Clinical Pharmacology: Basic Principles in Therapeutics, 718 pp.
Melmon KL, Morrelli HF (eds.).
New York, Macmillan, 1972. Cloth, \$17.95; paper, \$12.95.

AMA Drug Evaluations, 2nd ed. 1031 pp.
American Medical Association, Department of Drugs.
Acton, Massachusetts, Publishing Sciences Group, 1973. \$25.00.

PDR-Physicians' Desk Reference, 29th ed. 2040 pp.
Oradell, New Jersey, Medical Economics, 1975. \$12.50.

Principles of Drug Action: The Basis of Pharmacology. 884 pp.
Goldstein A, et al.
Hagerstown, Maryland, Harper & Row, 1968. \$18.50.

Therapeutics

Books

Current Therapy. 877 pp.
Conn HF (ed.).
Philadelphia, Saunders, 1975. \$21.00.

Washington University Department of Medicine: Manual of Medical Therapeutics, 21st ed. 455 pp.
Boedeker EC, Dauber JH. (eds.).
Boston, Little, Brown, 1975. \$7.95.

Physician's Handbook, 18th ed. 754 pp.
Krupp MA, et al.
Los Altos, California, Lange, 1976. \$8.00.

Handbook of Medical Treatment, 14th ed. 640 pp.
Chatton MJ (ed.).
Los Altos, California, Lange, 1974. \$7.50.

Modern Medical Treatment, 2nd ed. 352 pp.
Miller H, Hall R.
Philadelphia, Lippincott/Blackwell, 1975. Approx. \$22.50.

Clinical Pharmacology and Therapeutics

Journals

Clinical Pharmacology and Therapeutics
Monthly, \$27.00.

Medical Letter on Drugs and Therapeutics
Biweekly, \$19.50.

New England Journal of Medicine
Weekly, \$22.00.

Lancet
Weekly, \$25.00.

American Journal of Medicine
Monthly, \$20.00.

MICROBIOLOGY (25/39)

Books

Microbiology: Including Immunology and Molecular Genetics,
2nd ed. 1584 pp.
Davis BD, et al.
Hagerstown, Maryland, Harper & Row, 1973. \$33.50.

Infectious Diseases: A Guide to the Understanding and Management of Infectious Processes. 1392 pp.
Hoeprich PD (ed.).
Hagerstown, Maryland, Harper & Row, 1972. \$49.50.

Clinical Concepts of Infectious Diseases. 431 pp.
Cluff LE, Johnson JE (eds.).
Baltimore, Williams & Wilkins, 1972. \$17.50.

Review of Medical Microbiology, 12th ed. Approx. 550 pp.
Jawetz E, et al.
Los Altos, California, Lange, 1976. Approx. \$10.00.

Microbiology continued

Zinsser Microbiology, 15th ed. 1120 pp.
Joklik WK, Smith DT (eds.).
New York, Appleton, 1972. \$26.50.

Journals

Annals of Internal Medicine
Monthly, \$21.00.

New England Journal of Medicine
Weekly, \$22.00.

Journal of Infectious Diseases
Monthly, \$25.00.

Antimicrobial Agents and Chemotherapy
Monthly, \$50.00.

Infection and Immunity
Monthly, \$60.00.

PHYSIOLOGY AND PATHOLOGIC PHYSIOLOGY (40/45)

Physiology

Books

Best & Taylor's Physiological Basis of Medical Practice, 9th ed.
1400 pp.
Brobeck JR (ed.).
Baltimore, Williams & Wilkins, 1973. \$25.50.

Textbook of Medical Physiology, 5th ed. 1100 pp.
Guyton AC.
Philadelphia, Saunders, 1976. \$24.00.

Review of Medical Physiology, 7th ed. 587 pp.
Ganong WF.
Los Altos, California, Lange, 1975. \$10.50.

Medical Physiology, 13th ed. 1807 pp.
Mountcastle VB (ed.).
St. Louis, Mosby, 1974. Set, 35.00; Vol. 1 only, \$24.50.

Basic Human Physiology: Normal Function & Mechanisms of Disease, 721 pp.
Guyton AC.
Philadelphia, Saunders, 1971. \$12.75.

Pathologic Physiology

Books

Harrison's Principles of Internal Medicine, 7th ed. 2223 pp.
Wintrobe MM, et al (eds.).
New York, McGraw-Hill, 1974. Single vol., \$33.00; 2-vol. set, \$40.00.

Textbook of Medicine, 14th ed. 1892 pp.
Beeson PB, McDermott W (eds.).
Philadelphia, Saunders, 1975. Single vol., \$34.50; 2-vol. set, \$40.00.

Pathologic Physiology—Mechanisms of Disease, 6th ed. 1013 pp.
Sodeman WA 2nd, Sodeman WA Jr (eds.).
Philadelphia, Saunders, 1974. \$25.00.

Signs and Symptoms: Applied Pathologic Physiology and Clinical Interpretation, 5th ed. 1025 pp.
MacBryde CM, Blacklow RS.
Philadelphia, Lippincott, 1970. \$22.50.

Pathophysiology. Altered Regulatory Mechanisms in Disease, 2nd ed. Approx. 800 pp.

Frolich ED (ed.).
Philadelphia, Lippincott, 1976, in prep.

PHYSIOLOGY AND PATHOLOGIC PHYSIOLOGY

Journals

New England Journal of Medicine
Weekly, \$22.00.

Annals of Internal Medicine
Monthly, \$21.00.

American Journal of Medicine
Monthly, \$20.00.

Journal of Clinical Investigation
Monthly, \$60.00.

Archives of Internal Medicine
Monthly, \$25.00.

OTHER SPECIALTIES AND RELATED FIELDS: REFERENCES FOR THE INTERNIST

ANESTHESIOLOGY (71/92)

Books

Introduction to Anesthesia, 4th ed. 456 pp.
Dripps RD, et al.
Philadelphia, Saunders, 1972. \$12.00.

A Practice of Anaesthesia, 3rd ed. 1549 pp.
Wylie WD, Churchill-Davidson HC (eds.).
Chicago, Year Bk Med, 1972. \$45.95.

Journals

Anesthesiology
Monthly, \$15.00.

Anesthesia and Analgesia: Current Researches
Bimonthly, \$25.00.

CARDIOVASCULAR SURGERY (22/34)

Books

Peripheral Arterial Disease, Vol. 4; Major Problems in Clinical Surgery Ser., Vol. 4; 2nd ed. 503 pp.
Barker WF.
Philadelphia, Saunders, 1975. \$17.50.

Thoracic and Cardiovascular Surgery With Related Pathology, 3rd ed. 1297 pp.
Glenn W, et al.
New York, Appleton, 1975. \$55.00.

Gibbon's Surgery of the Chest, 3rd ed. 1600 pp.
Sabiston DC Jr, Spencer FC (eds.).
Philadelphia, Saunders, 1976, in prep.

Advances in Cardiovascular Surgery (Clinical Cardiology Monographs). 296 pp.
Kirklin JW (ed.).
New York, Grune & Stratton, 1973. \$17.25.

Cardiac Surgery, 2nd ed. 703 pp.
Norman JC (ed.).
New York, Appleton, 1972. \$24.50.

Journals

Journal of Thoracic and Cardiovascular Surgery
Monthly, \$32.50.

Circulation: Journal of the American Heart Association
Monthly, \$25.00.

CLINICAL PATHOLOGY (33/49)

Books

- Todd-Sanford Clinical Diagnosis by Laboratory Methods*, 15th ed. 1443 pp.
Davidsohn I, Henry JB.
Philadelphia, Saunders, 1974. \$28.00.
- Laboratory Medicine: Hematology*, 4th ed. 1318 pp.
Miale JB.
St. Louis, Mosby, 1972. \$32.95.

Journals

- American Journal of Clinical Pathology*
Monthly, \$30.00.
- Journal of Laboratory and Clinical Medicine*
Monthly, \$22.50.

DERMATOLOGY (39/47)

Books

- Dermatology in General Medicine*. 2048 pp.
Fitzpatrick TB, et al.
New York, McGraw-Hill, 1971. \$60.00.
- Skin Signs of Systemic Disease*. 448 pp.
Braverman IM.
Philadelphia, Saunders, 1970. \$29.50.
- Textbook of Dermatology*, 2nd ed. 2200 pp.
Rook AJ, et al.
Philadelphia, Lippincott, 1973. \$114.00.
- Andrews' Diseases of the Skin*, 6th ed. 1027 pp.
Domonkos AN.
Philadelphia, Saunders, 1971. \$30.00.

Journals

- Archives of Dermatology*
Monthly, \$25.00.
- Cutis*
Monthly, \$14.00.

DIAGNOSIS (113/154)

Physical Diagnosis

Books

- Major's Physical Diagnosis*, 8th ed. 790 pp.
Delp MH, Manning RT.
Philadelphia, Saunders, 1975. \$15.75.
- Bedside Diagnostic Examination*, 3rd ed. 952 pp.
DeGowin EL, DeGowin RL.
New York, Macmillan, 1976. Flexible binding, \$12.95.
- Methods of Clinical Examination: A Physiologic Approach*, 3rd ed. 439 pp.
Judge R, Zuidema GD (eds.).
Boston, Little, Brown, 1974. Paper, \$11.50; cloth, \$17.50.

Differential Diagnosis

Books

- Differential Diagnosis: The Interpretation of Clinical Evidence*, 2nd ed. 1238 pp.
Harvey AM, Bordley J III.
Philadelphia, Saunders, 1970. \$27.00.

- French's Index of Differential Diagnosis*, 10th ed. 1000 pp.
Hart FD (ed.).
Baltimore, Williams & Wilkins, 1973. \$43.50.

- Diagnostic Approaches to Presenting Syndromes*. 547 pp.
Barondess JA (ed.).
Baltimore, Williams & Wilkins, 1971. \$24.50.

- Signs and Symptoms: Applied Pathologic Physiology and Clinical Interpretation*, 5th ed. 1025 pp.
MacBryde CM, Blacklow RS.
Philadelphia, Lippincott, 1970. \$22.50.

- Current Diagnosis*. 1151 pp.
Conn HF, Conn RB (eds.).
Philadelphia, Saunders, 1974. \$30.00.

Physical and Differential Diagnosis

Refer to Journal listing for General Internal Medicine.

EMERGENCY MEDICINE (21/40)

Books

- Early Care of the Injured Patient*. 444 pp.
American College of Surgeons, Committee on Trauma.
Philadelphia, Saunders, 1972. \$9.00.
- Textbook of Basic Emergency Medicine*. 234 pp.
Miller RH, Cantrell JR.
St. Louis, Mosby, 1975. \$6.95.
- Immediate Care of the Acutely Ill and Injured*. 266 pp.
Stephenson HE Jr (ed.).
St. Louis, Mosby, 1974. \$9.50.

Journals

- Journal of the American College of Emergency Physicians*
Irregular, \$15.00.
- Emergency Medicine*
Monthly, free on request.
- Journal of Trauma*
Monthly, \$30.00.
- Critical Care Medicine*
Bimonthly, \$12.00.

GERIATRICS (17/26)

Books

- Clinical Geriatrics*. 525 pp.
Rossman I.
Philadelphia, Lippincott, 1971. \$26.00.
- Textbook of Geriatric Medicine and Gerontology*. 772 pp.
Brocklehurst JC (ed.).
New York, Longman, 1973. \$55.00.
- Cowdry's The Care of the Geriatric Patient*, 5th ed. Approx. 525 pp.
Steinberg FU (ed.).
St. Louis, Mosby, June 1976. Approx. \$27.50.

Journals

- Journal of the American Geriatrics Society*
Monthly, \$21.00.
- Geriatrics*
Monthly, \$15.00.

NEUROLOGY (49/66)

Books

A Textbook of Neurology, 5th ed. 841 pp.
Merritt HH.
Philadelphia, Lea & Febiger, 1973. \$18.50.

Harrison's Principles of Internal Medicine, 7th ed. 2223 pp.
Wintrobe MM, et al (eds.).
New York, McGraw-Hill, 1974. Single vol., \$33.00; 2-vol. set, \$40.00.

Clinical Neurology.
Baker AB, Baker LH.
Hagerstown, Maryland, Harper & Row, 1971. 3 loose-leaf vols., \$195.00; annual updating information provided at \$30.00 per year.

Medical Neurology, 2nd ed. 769 pp.
Gilroy J, Meyer JS.
New York, Macmillan, 1975. \$22.95.

The Diagnosis of Stupor and Coma, 2nd ed. 286 pp.
Plum F, Posner JB.
Philadelphia, Davis Co, 1972. \$10.00.

Journals

Neurology
Monthly, \$24.00.

Archives of Neurology
Monthly, \$25.00.

New England Journal of Medicine
Weekly, \$22.00.

Journal of Neurology, Neurosurgery and Psychiatry
Monthly, \$46.50.

Brain
Quarterly, \$27.60.

NEUROSURGERY (27/36)

Books

Neurological Surgery. 2024 pp.
Youmans JR.
Philadelphia, Saunders, 1973. 3-vol. set, \$114.00.

Essentials of Neurosurgery for Students and Practitioners. 273 pp.
Mullan S.
New York, Springer Pub, 1961. \$10.50.

Journals

Journal of Neurosurgery
Monthly, \$40.00.

Brain
Quarterly, \$27.60.

NUCLEAR MEDICINE (36/46)

Books

Principles of Nuclear Medicine. 896 pp.
Wagner HN Jr (ed.).
Philadelphia, Saunders, 1968. \$27.50.

Nuclear Medicine, 2nd ed. 858 pp.
Blahd WH.
New York, McGraw-Hill, 1971. \$36.50.

Clinical Scintillation Imaging, 2nd ed. 820 pp.
Freeman LM, Johnston PM (eds.).
New York, Grune & Stratton, 1975. \$45.00.

Basic Nuclear Medicine. 285 pp.
Baum S, Bramlet R.
New York, Appleton, 1975. \$13.75.

Nuclear Medicine in Vitro. 423 pp.
Rothfeld B.
Philadelphia, Lippincott, 1974. \$29.50.

Journals

Journal of Nuclear Medicine
Monthly, \$40.00.

Seminars in Nuclear Medicine
Quarterly, \$21.50.

OBSTETRICS AND GYNECOLOGY (27/41)

Obstetrics

Books

Williams Obstetrics, 14th ed. 1242 pp.
Hellman LM, Pritchard JA.
New York, Appleton, 1971. \$28.75.

Biological Principles and Modern Practice of Obstetrics. 837 pp.
Greenhill JP, Friedman EA.
Philadelphia, Saunders, 1974. \$23.00.

Gynecology

Books

Novak's Textbook of Gynecology, 9th ed. 912 pp.
Novak ER, et al (eds.).
Baltimore, Williams & Wilkins, 1975. \$28.50.

Gynecology: Principles and Practice, 2nd ed. 764 pp.
Kistner RW.
Chicago, Year Bk Med, 1971. \$25.95.

Office Gynecology, 9th ed. 340 pp.
Greenhill JP.
Chicago, Year Bk Med, 1971. \$21.50.

Obstetrics and Gynecology

Books

Novak's Gynecologic and Obstetric Pathology with Clinical & Endocrine Relations, 7th ed. 752 pp.
Novak ER, Woodruff JD.
Philadelphia, Saunders, 1974. \$26.50.

Obstetrics and Gynecology, 3rd ed. 1500 pp.
Danforth DN (ed.).
Hagerstown, Maryland, Harper & Row, 1976, in prep.

Journals

Obstetrics and Gynecology
Monthly, \$18.00.

American Journal of Obstetrics and Gynecology
Semi-monthly, \$25.50.

OPHTHALMOLOGY (17/27)

Books

Ophthalmology: Principles and Concepts, 3rd ed. 530 pp.
Newell FW, Ernest JT.
St. Louis, Mosby, 1974. \$21.50.

Adler's Textbook of Ophthalmology, 9th ed.
Scheie HG, Albert DM (eds.).
Philadelphia, Saunders, 1976, in prep.

System of Ophthalmology, Vol. 1 through Vol. 15.
Duke-Elder S (ed.).
St. Louis, Mosby/Henry Kimpton, 1958-1975. Prices vary per
vol: \$39.50 to \$85.50; 15-vol. set, approx. \$864.00.

Journals

American Journal of Ophthalmology
Monthly, \$15.00.

Archives of Ophthalmology
Monthly, \$25.00.

ORTHOPEDICS (18/25)

Books

Textbook of Disorders and Injuries of the Musculoskeletal System. 564 pp.
Salter RB.

Baltimore, Williams & Wilkins, 1970. \$21.50.

Orthopedic Diseases Physiology, Pathology, Radiology, 4th ed.
791 pp.

Aegerter E, Kirkpatrick JA Jr.
Philadelphia, Saunders, 1975. \$30.00.

Mercer's Orthopaedic Surgery, 7th ed. 1236 pp.
Duthie RB, Ferguson AB.
Baltimore, Williams & Wilkins, 1973. \$77.50.

Campbell's Operative Orthopaedics, 5th ed. 2044 pp.
Crenshaw AH (ed.).
St. Louis, Mosby, 1971. 2 vols., \$94.50.

Journals

Journal of Bone and Joint Surgery
Irregular, \$18.00.

Clinical Orthopaedics and Related Research
Monthly, \$52.00.

OTOLARYNGOLOGY (23/34)

Books

Textbook of Otolaryngology, 4th ed. 510 pp.
DeWeese DD, Saunders WH.
St. Louis, Mosby, 1973. \$17.50.

Otolaryngology; Vol. 1, *Basic Sciences and Related Disciplines*,
1189 pp; Vol. 2, *Ear*, 499 pp; Vol. 3, *Head and Neck*, 906 pp.
Paparella MM, Shumrick DA, (eds.).
Philadelphia, Saunders, 1973. Vol. 1, \$45.00; Vol. 2, \$30.00;
Vol. 3, \$45.00; 3-vol. set, \$120.00.

Diseases of the Nose, Throat, and Ear, 12th ed. 948 pp.
Ballenger JJ, et al.
Philadelphia, Lea & Febiger, 1976, in prep.

Journals

Archives of Otolaryngology
Monthly, \$25.00.

Laryngoscope
Monthly, \$33.00.

PATHOLOGY (32/47)

Books

Pathologic Basis of Disease. 1595 pp.
Robbins SL.
Philadelphia, Saunders, 1974. \$28.50.

Pathology, 6th ed. 3428 pp.
Anderson WAD (ed.).
St. Louis, Mosby, 1971. 2 vols., \$31.50.

Surgical Pathology, 5th ed. 1394 pp.
Ackerman LV, Rosai J.
St. Louis, Mosby, 1974. \$51.50.

Journals

American Journal of Clinical Pathology
Monthly, \$30.00.

Human Pathology
Bimonthly, \$28.50.

New England Journal of Medicine
Weekly, \$22.00.

PEDIATRICS (29/35)

Books

Nelson Textbook of Pediatrics, 10th ed. 1876 pp.
Vaughan VC, McKay RJ (ed.).
Philadelphia, Saunders, 1975. \$32.75.

Current Pediatric Therapy 7.
Gellis SS, Kagan BM.
Philadelphia, Saunders, 1976. \$29.50.

Pediatrics, 15th ed. 2070 pp.
Barnett HL (ed.).
New York, Appleton, 1972. \$28.95.

Journals

Pediatrics
Monthly, \$17.00.

Journal of Pediatrics
Monthly, \$18.50.

PSYCHIATRY (49/63)

Books

Modern Synopsis of Comprehensive Textbook of Psychiatry,
2nd ed.

Freedman AM, et al.
Baltimore, Williams & Wilkins, 1976, in prep.

Noyes' Modern Clinical Psychiatry, 8th ed. 694 pp.
Kolb LC.
Philadelphia, Saunders, 1973. \$13.00.

Psychiatry continued

Journals

American Journal of Psychiatry
Monthly, \$18.00.

Archives of General Psychiatry
Monthly, \$25.00.

RADIOLOGY (63/103)

Diagnostic Radiology

Books

Analysis of Roentgen Signs; Vol. 1, *Introduction: Skeletal System*, 697 pp; Vol. 2, *Respiratory System, Heart*, 516 pp; Vol. 3, *Abdomen, Urogenital and Alimentary Tracts*, 702 pp. Meschan I. Philadelphia, Saunders, 1973. Vol. 1, \$25.00; Vol. 2, \$20.00; Vol. 3, \$25.00; 3-vol. set, \$70.00.

Essentials of Roentgen Interpretation, 3rd ed. 1152 pp. Paul LW, Juhl JH. Hagerstown, Maryland, Harper & Row, 1972. \$42.50.

Exercises in Diagnostic Radiology; Vol. 1, *The Chest*, 86 pp.; Vol. 2, *The Abdomen*, 88 pp.; Vol. 3, *Bone*, 85 pp.; Vol. 4, *The Total Patient*, 139 pp.; Vol. 5, *Pediatrics*, 162 pp.; Vol. 6, *Nuclear Radiology*, 218 pp.; Vol. 7, *The Emergency Patient*, 240 pp.; Vol. 8, *The Urinary Tract*.

Squire LF, et al:

Philadelphia, Saunders; Vol. 1, 1970, \$4.95; Vol. 2, 1971, \$4.95; Vol. 3, 1972, \$4.95; Vol. 4, 1972, \$5.95; Vol. 5, 1973, \$5.95; Vol. 6, 1973, \$5.95; Vol. 7, \$7.95; Vol. 8, in press.

Therapeutic Radiology

Books

Radiation Oncology: Rationale, Technique, Results, 4th ed. 622 pp. Moss WT, et al. St. Louis, Mosby, 1973. \$33.50.

Textbook of Radiotherapy, 2nd ed. 816 pp. Fletcher GH. Philadelphia, Lea & Febiger, 1973. \$39.50.

Diagnostic and Therapeutic Radiology

Journals

Radiology
Monthly, \$45.00.

American Journal of Roentgenology, Radium Therapy and Nuclear Medicine
Monthly, \$30.00.

SURGERY (18/25)

Books

Principles of Surgery, 2nd ed. 1982 pp. Schwartz SI (ed.). New York, McGraw-Hill, 1974. Single vol., \$33.00; 2-vol. set, \$40.00.

Davis-Christopher Textbook of Surgery, 10th ed. 2135 pp. Sabiston DC (ed.). Philadelphia, Saunders, 1972. Single vol., \$28.50; 2-vol. set, \$37.50.

Journals

Annals of Surgery
Monthly, \$23.00.

Surgery, Gynecology and Obstetrics
Monthly, \$20.00.

Surgery
Monthly, \$21.00.

THORACIC SURGERY (37/61)

Books

Gibbon's Surgery of the Chest, 3rd ed. 1600 pp. Sabiston DC Jr, Spencer FC (eds.). Philadelphia, Saunders, 1976, in prep.

Surgical Diseases of the Chest, 3rd ed. 818 pp. Blades BB (ed.). St. Louis, Mosby, 1974. \$45.00.

Journals

Journal of Thoracic and Cardiovascular Surgery
Monthly, \$32.50.

Annals of Thoracic Surgery
Monthly, \$30.00.

UROLOGY (33/45)

Books

General Urology, 8th ed. 492 pp. Smith DR. Los Altos, California, Lange, 1975. \$11.00.

Urology, 3rd ed. 2838 pp. Campbell MF, Harrison JH (eds.). Philadelphia, Saunders, 1970. 3 vols., \$120.00.

Clinical Urography, 3rd ed. 2101 pp. Emmett JL, Witten DM. Philadelphia, Saunders, 1971. 3-vol. set, \$90.00.

Journals

Journal of Urology
Monthly, \$40.00.

Urology
Monthly, \$25.00.

RELATED FIELDS IN WHICH INTERNISTS WORK

AEROSPACE MEDICINE (26/33)

Books

Aerospace Medicine, 2nd ed. 756 pp. Randel HW. Baltimore, Williams & Wilkins, 1971. \$45.00.

Textbook of Aviation Physiology. 1226 pp. Gillies JA (ed.). Elmsford, New York, Pergamon, 1965. \$37.50.

Bioastronautics Data Book (NASA Sp. 3006), 2nd ed. 930 pp. Parker JF Jr, West VR (managing eds.). National Aeronautics and Space Administration. Washington, D.C., U.S. Govt. Printing Office, 1973. \$7.50.

Aerospace Medicine continued

Journals

Aviation, Space & Environmental Medicine
Monthly, \$35.00.

Archives of Environmental Health
Monthly, \$25.00.

BIOMEDICAL ENGINEERING (41/61)

Books

Principles of Applied Biomedical Instrumentation, 2nd ed. 616 pp.
Geddes LA, Baker LE.
New York, Wiley, 1975. \$22.50.

Medical Engineering. 1256 pp.
Ray CD (ed.).
Chicago, Year Bk Med, 1973. \$90.00.

Biomedical Engineering. 435 pp.
Brown JHU, et al.
Philadelphia, Davis, 1971. \$15.95.

Biomedical Instrumentation and Measurements. 446 pp.
Cromwell L, et al.
Englewood Cliffs, New Jersey, Prentice-Hall, 1973. \$16.95.

Journals

Journal of the Association for the Advancement of Medical Instrumentation
Bimonthly, \$15.00.

Biomedical Engineering
Bimonthly, \$165.00.

Medical and Biological Engineering
Bimonthly, \$72.00.

Journal of Applied Physiology
Monthly, \$55.00.

COMPUTERS IN MEDICINE (5/5)

Books

Hospital Computer Systems (Biomedical Engineering & Health Systems Ser.). 768 pp.
Collen MF (ed.).
New York, Wiley, 1974. \$29.50.

Computers in Biomedical Research, Vol. 1, 562 pp.; Vol. 2, 363 pp.; Vol. 3, 288 pp.; Vol. 4, 325 pp.
Stacy RW, Waxman B.
New York, Acad Pr; Vol. 1, 1965, \$33.00; Vol. 2, 1965, \$26.00; Vol. 3, 1969, \$23.00; Vol. 4, 1974, \$26.00.

Computer Techniques in Biomedicine & Medicine. 358 pp.
Haga E.
New York, Petrocelli Bks., 1973, \$27.50.

Journals

General

Annals of Internal Medicine
Monthly, \$21.00.

New England Journal of Medicine
Weekly, \$22.00.

American Journal of Medicine
Monthly, \$20.00.

Journal of the American Medical Association
Weekly, \$30.00.

Lancet
Weekly, \$25.00.

Technical

Computers & Biomedical Research
Bimonthly, \$37.50.

Methods of Information in Medicine
Quarterly, \$28.80.

Computers in Biology & Medicine
Quarterly, \$45.00.

Computers and Medicine
Bimonthly, \$5.00.

ECOLOGY AND ENVIRONMENTAL MEDICINE (16/22)

Books

Maxcy-Rosenau Preventive Medicine and Public Health, 10th ed. 1189 pp.
Sartwell PE (ed.).
New York, Appleton, 1973. \$38.50.

Human Ecology and Public Health, 4th ed. 462 pp.
Kilbourne ED, Smillie WG (eds.).
New York, Macmillan, 1969. \$13.95.

Journals

Archives of Environmental Health
Monthly, \$25.00.

Journal of Occupational Medicine
Monthly, \$20.00.

NUTRITION (38/43)

Books

Modern Nutrition in Health and Disease, 5th ed. 1158 pp.
Goodhart RS, Shils ME.
Philadelphia, Lea & Febiger, 1973. \$35.00.

Human Nutrition and Dietetics, 6th ed. 756 pp.
Davidson S, et al.
New York, Longman, 1975. \$29.50.

Journals

American Journal of Clinical Nutrition
Monthly, \$30.00.

Nutrition Reviews
Monthly, \$12.00.

OCCUPATIONAL AND INDUSTRIAL MEDICINE AND TOXICOLOGY (40/46)

Books

The Diseases of Occupations, 5th ed. 1225 pp.
Hunter D.
Boston, Little, Brown, 1975. \$65.00.

Occupational And Industrial Medicine And Toxicology continued

Industrial Hygiene and Toxicology; Vol. 1, *General Principles*, 2nd ed., 830 pp.; Vol. 2, *Toxicology*, 2nd ed., 2377 pp.; Vol. 3, *Toxicology*.

Patty FA (ed.).

New York, Wiley, Vol. 1, 1958, \$39.25; Vol. 2, 1963, \$60.50; Vol. 3, in prep.

Encyclopaedia of Occupational Health and Safety. 1621 pp. International Labour Office, Geneva, Switzerland. New York, McGraw-Hill, 1972. 2 vols., \$49.50.

Clinical Toxicology of Commercial Products, 4th ed. 1400 pp. Gleason M, et al. Baltimore, Williams & Wilkins, 1976.

Journals

Journal of Occupational Medicine
Monthly, \$20.00.

Archives of Environmental Health
Monthly, \$25.00.

PHYSICAL MEDICINE AND REHABILITATION (33/49)

Books

Handbook of Physical Medicine and Rehabilitation, 2nd ed. 920 pp.

Krusen FH, et al (eds.).

Philadelphia, Saunders, 1971. \$22.50.

Rehabilitation Medicine: A Textbook on Physical Medicine and Rehabilitation, 3rd ed. 687 pp.

Rusk HA.

St. Louis, Mosby, 1971. \$28.50.

Physiologic Basis of Rehabilitation Medicine, 445 pp.

Downey JA, Darling RC.

Philadelphia, Saunders, 1971, \$15.00.

Journals

Archives of Physical Medicine and Rehabilitation
Monthly, \$20.00.

American Journal of Physical Medicine
Bimonthly, \$12.00.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

Books

Maxcy-Rosenau Preventive Medicine and Public Health, 10th ed. 1189 pp.

Sartwell PE (ed.).

New York, Appleton, 1973. \$38.50.

Preventive Medicine, 897 pp.

Clark DW, Macmahon BM (eds.).

Boston, Little, Brown, 1974. \$12.50.

Journals

American Journal of Public Health & Nations Health
Monthly, \$30.00.

New England Journal of Medicine
Weekly, \$22.00.

American Journal of Epidemiology
Monthly, \$40.00.

TROPICAL MEDICINE AND PARASITOLOGY (25/36)

Tropical Medicine

Books

A Manual of Tropical Medicine, 5th ed. Approx. 932 pp. Hunter GW III, et al (eds.).

Philadelphia, Saunders, 1976, in prep.

Manson's Tropical Diseases, 17th ed. 1164 pp.

Wilcocks C, Manson-Bahr PEC (eds.).

Baltimore, Williams & Wilkins, 1972. \$38.00.

Parasitology

Books

Craig and Faust's Clinical Parasitology, 8th ed. 890 pp.

Faust EC, et al.

Philadelphia, Lea & Febiger, 1970, \$25.50.

Basic Clinical Parasitology, 4th ed. 355 pp.

Brown HW.

New York, Appleton, 1975. \$16.00.

Tropical Medicine and Parasitology

Journals

American Journal of Tropical Medicine and Hygiene
Bimonthly, \$30.00.

Transactions of the Royal Society of Tropical Medicine and Hygiene

Bimonthly, \$47.75.

THE
LITERATURE
OF
MEDICINE

Neurology: An Annotated Bibliography of Recent Literature

References to Journal Articles and Other Papers

NEUROLOGY SUBCOMMITTEE*, MEDICAL KNOWLEDGE SELF-ASSESSMENT PROGRAM IV,
AMERICAN COLLEGE OF PHYSICIANS; Philadelphia, Pennsylvania

THIS BIBLIOGRAPHY includes references to 100 recently published journal papers and similar sources that represent recent developments important in the concepts and practice of internal medicine. It has been compiled as a part of the work of the Neurology Subcommittee toward the preparation of the *Medical Knowledge Self-Assessment Program IV Syllabus*.

In preparing this bibliography, the committee reviewed MEDLINE† bibliographic printouts of journal articles published since the beginning of 1972 and also drew on their own files. Papers were selected with a view to their likely availability in libraries of hospitals and other clinical institutions in the United States and Canada. This is the reason for the listing only of papers in English and for the preponderant representation of American journals and books.

The Neurologic Examination

1. ALPERS BJ, MANCALL EL: *Essentials of the Neurological Examination*. Philadelphia, F. A. Davis Co., 1975, chapters 1-3, pp. 1-127

Considers the neurologic examination and history as well as the interpretation of neurologic abnormalities. Concise and current (109 references).

2. PLUM F, POSNER JB: The pathological physiology of signs and symptoms of coma, in *The Diagnosis of Stupor and Coma*, 2nd ed. Philadelphia, F. A. Davis Co., 1972, pp. 2-57

Outlines the examination of the patient with altered level of consciousness. This approach is widely accepted and merits the attention of all practicing physicians (607 references).

3. GAY AJ, NEWMAN NM: Eye movements and their disorders: an analytical evaluation, in *Scientific Foundations of Neurology*, edited by CRITCHLEY M, O'LEARY JL, JEN-

* Robert C. Griggs, M.D., F.A.C.P., Chairman; Guenter R. Haase, M.D.; Elliott L. Mancall, M.D.; Joseph B. Martin, M.D., Ph.D.; Audrey Penn, M.D.; Oscar Reinmuth, M.D., F.A.C.P.; and Jerome Resnick, M.D., F.A.C.P.

Reprints not available.

† Computer literature-file of the National Library of Medicine, Bethesda, Maryland, consulted through the Regional Medical Library service Library of the College of Physicians of Philadelphia, with the technical assistance of Ruthanne Henner.

NETT B. Philadelphia, F. A. Davis Co., 1972, pp. 126-138
Describes the methods for bedside examination of eye movements and discusses the nuclear, internuclear, and supranuclear disorders of eye movements (8 references).

Techniques in Neurologic Diagnosis

4. MOOSSY J, BAUER RB, FLETCHER AP, et al: The laboratory evaluation of neurovascular disease (stroke). *Stroke* 3: 503-526, 1972

The emphasis is on tests especially pertinent to cerebrovascular disease, but this article covers most of the information valuable in all aspects of neurologic diagnosis (114 references).

5. FIELDS WS, BELL RM, ELLINGSON RJ, et al: Special procedures and equipment in the diagnosis and management of stroke. *Stroke* 4:111-137, 1973

Covers most of the important diagnostic procedures of modern neurologic practice. There is no discussion of electromyography or computerized axial tomography (155 references).

6. AMBROSE J: Computerized x-ray scanning of the brain. *J Neurosurg* 40:679-695, 1974

A review of the use of this important new technique in neurologic diagnosis, with excellent pictures (7 references).

7. PETITO F, PLUM F: The lumbar puncture. *N Engl J Med* 290:225-227, 1974

Editorial review of areas of agreement and controversy on the evaluation of cerebrospinal fluid. Considers the indications, hazards, and prevention of complications of lumbar puncture (14 references).

Headache

8. FRIEDMAN AP: Current concepts in the diagnosis and treatment of chronic recurring headache. *Med Clin North Am* 56:1257-1271, 1972

Concise discussion of migraine and related types of headache, including possible pathogenic mechanisms and differential diagnosis and treatment (30 references).

Coma

9. ARIEFF AI, CARROLL HJ: Cerebral edema and depression of sensorium in nonketotic hyperosmolar coma. *Diabetes* 23:525-531, 1974

The metabolic status of 53 patients with hyperglycemia without ketoacidosis is analyzed. The relations of coma to body water and solutes, and to osmotic equilibrium between cerebrospinal fluid and extracellular fluid, are explored (28 references).

10. BLUM M: Myxedema coma. *Am J Med Sci* 264:432-443, 1972

A comprehensive review of the pathophysiologic factors underlying the appearance of coma in myxedema. The various autonomic and other peripheral and central neurologic abnormalities found in myxedema are also discussed (72 references).

11. FISCHER JE: Hepatic coma in cirrhosis, portal hypertension and following portacaval shunt. Its etiologies and the current status of its treatment. *Arch Surg* 108:325-336, 1974

A comprehensive critical review of the pathogenesis of hepatic coma. The putative roles of substances such as ammonia and glutamine, possible neurotransmitter disorders, and short-chain fatty acids are analyzed. False neurotransmitters are also discussed (149 references).

12. LEONARD A, SHAPIRO FL: Subdural hematoma in regularly hemodialyzed patients. *Ann Intern Med* 82:650-658, 1975

Thirteen of 396 patients developed hematomas, the majority without a history of trauma. Considers the difficulty distinguishing dysequilibrium from subdural hematoma and reviews the diagnosis of subdural hematomas in general (26 references).

13. GUISO R, ARIEFF AI: Neurologic manifestations of diabetic comas: correlation with biochemical alterations in the brain. *Metabolism* 24:665-679, 1975

Reviews the clinical findings in diabetic coma and discusses the mechanism of coma production in diabetic ketoacidosis and nonketotic coma. Considers the actual and theoretical effects of treatment on these abnormalities (93 references).

14. SCHUBERT WK: Commentary: the diagnosis of Reye syndrome. *J Pediatr* 87:867, 1975

This encephalopathy of children and some young adults is being recognized with increased frequency. This editorial introduces five brief papers summarizing recent advances in diagnosis and therapy (8 references).

Disorders of Sleep

15. ZARCON V: Narcolepsy. *N Engl J Med* 288:1156-1166, 1973

Disorders of sleep have come under close scrutiny in recent years. This article reviews one of these disorders, narcolepsy, in the context of other causes of hypersomnia (56 references).

16. KALES A, KALES JD: Sleep disorders. *N Engl J Med* 290:487-499, 1974

A brief review of current sleep research with discussion of evaluation and treatment of somnambulism, night terrors, enuresis, insomnia, and hypersomnia (95 references).

Dementia

17. BARRETT RE: Dementia in adults. *Med Clin North Am* 56:1405-1418, 1972

Discusses the types and causes of dementia encountered in clinical practice and stresses the potentially treatable conditions (47 references).

18. MARSDEN CD, HARRISON MJG: Outcome of investigation of patients with presenile dementia. *Br Med J* 2:249-252, 1972

A substantial number of patients with a diagnosis of senile dementia suffer from treatable conditions. Depressed patients in particular may be misdiagnosed as being demented (19 references).

19. TERRY RD: Dementia. A brief and selective review. *Arch Neurol* 33:1-4, 1976

A distillate of the current research on Creutzfeldt-Jakob, Pick, Huntington, and Alzheimer diseases (46 references).

20. EARNEST MP, FAHN S, KARP JH, et al: Normal pressure hydrocephalus and hypertensive cerebrovascular disease. *Arch Neurol* 31:262-266, 1974

Important review of the puzzling and controversial aspects of the syndrome and the problems in diagnosis and selection of patients for therapy. This treatable cause of dementia is not always easily recognized among many untreatable causes (26 references).

Dizziness

21. DRACHMAN DA, HART CW: An approach to the dizzy patient. *Neurology* 22:323-334, 1972

Reviews the steps in evaluation as well as the final diagnoses in 125 patients presenting with this complaint. A secure diagnosis was reached in 91% (53 references).

Affective Disorders

22. BALDESSARINI RJ, LIPINSKI JF: Lithium salts: 1970-1975. *Ann Intern Med* 83:527-533, 1975

Considers the pharmacology, clinical indications, and toxic effects of this useful agent for manic-depressive illness (75 references).

Vascular Disorders

23. TOOLE JF, TRUSCOTT BL, ANDERSON WW, et al: Medical and surgical management of stroke. *Stroke* 4:269-320, 1973

A survey of current attitudes and practice in stroke. Controversial or unsettled areas are identified. The article remains current except for the topics of antiplatelet aggregation therapy and the use of computerized axial tomography (178 references).

24. MEYER JS: Summary of the international round table conference on platelet aggregation in the pathogenesis of cerebrovascular disorders. *Stroke* 6:239-244, 1975

Reviews antiplatelet drugs such as aspirin, dipyridamole, and sulfinpyrazone in the treatment of cerebrovascular disease. There are as yet no definitive reports on this subject, but this review is an overview of current research and practice.

25. COLLABORATIVE GROUP FOR THE STUDY OF STROKE IN YOUNG WOMEN: Oral contraception and increased risk of cerebral ischemia or thrombosis. *N Engl J Med* 288:871-878, 1973

Reports a ninefold increase in the risk of stroke with the use of progestational hormones. This is well referenced for information on other complications of these widely used substances (19 references).

26. GRINDAL AB, TOOLE JF: Surgical treatment of carotid and vertebral artery disease. An updating to 1974. *Ann Intern Med* 81:647-649, 1974

Although this report is not a definitive answer, it is a fairly representative and authoritative assessment of changing but current opinions of some of the controversial questions in this important and vexing therapeutic area (26 references).

27. SILVER JR, BUXTON PH: Spinal stroke. *Brain* 97:539-550, 1974

A review of the clinical and pathophysiologic features of sudden spinal cord ischemia based on a study of 11 patients. Acute circulatory failure is now the usual cause (10 references).

Nervous System Trauma

28. BENDER MB, CHRISTOFF N: Nonsurgical treatment of subdural hematoma. *Arch Neurol* 31:73-79, 1974

A provocative and controversial study of more than 100 patients with angiographically verified subdural hematomas treated conservatively, with satisfactory resolution of the hematoma in the majority (26 references).

29. GRONWALL D, WRIGHTSON P: Delayed recovery of intellectual function after minor head injury. *Lancet* 2:605-609, 1974

A prospective study of 100 patients with concussion, using early psychological testing and regular follow-up evaluation until return to normalcy. Particular attention is paid to the postconcussive syndrome (8 references).

30. MILLER H, CARLIDGE N: Simulation and malingering after injuries to the brain and spinal cord. *Lancet* 1:580-585, 1972

A provocative and cogent review of a wide variety of posttraumatic disorders of psychiatric causation after head injury, with commentary on the legal implications thereof (2 references).

31. LEFFERT RD: Brachial-plexus injuries. *N Engl J Med* 291:1059-1067, 1974

Reviews the pertinent anatomy and findings of patients with traumatic injury. Also helpful in other types of brachial-plexus disease (57 references).

Central Nervous System Neoplasms

32. POSNER JB, SHAPIRO WR: Brain tumor: current status of treatment and its complications. *Arch Neurol* 32:781-784, 1975

Outlines current methods of management of gliomas, metastatic cerebral tumors, and meningeal carcinomatosis, with particular emphasis on the use of chemotherapy (18 references).

33. SULLIVAN MP, HUMPHREY GB, VIETTI TJ, et al: Superiority of conventional intrathecal methotrexate therapy with maintenance over intensive intrathecal methotrexate therapy, unmaintained, or radiotherapy (2000-2500 rads tumor dose) in treatment for meningeal leukemia. *Cancer* 35:1066-1073, 1975

In the treatment of patients with meningeal leukemia, conventional intrathecal methotrexate therapy followed by maintenance intrathecal therapy at 8-week intervals is shown to be superior to single-dose treatment or radiotherapy (11 references).

34. PRATHER JL, LONG JM, VAN HEERTUM R, et al: Multicentric and isolated multifocal glioblastoma multiforme simulating metastatic disease. *Br J Radiol* 48:10-15, 1975

The multiple lesions of glioblastoma multiforme, whether distinct or interconnected, can mimic metastatic disease on brain scan and cerebral angiography (15 references).

35. SCHWARTZ JH: Meningeal leukemia in the blastic phase of chronic granulocytic leukemia. *Am J Med* 59:819-828, 1975

In 101 patients with Philadelphia-positive chronic granulocytic leukemia, 7 developed meningeal leukemia during treatment. The principal neurologic signs were cranial nerve palsies and papilledema (23 references).

36. LITTLE JR, DALE AJ, OKAZAKI H: Meningeal carcinomatosis. Clinical manifestations. *Arch Neurol* 30:138-143, 1974

This review of 29 cases emphasizes the difficulties in early diagnosis of meningeal carcinomatosis. Careful examination of the cerebrospinal fluid was the most useful procedure in reaching a diagnosis (20 references).

37. PALMER JJ: Radiation myelopathy. *Brain* 95:109-122, 1972

Describes the clinical and postmortem findings of seven patients with radiation-related spinal cord necrosis. Asymmetrical sensory symptoms and signs are an early manifestation (39 references).

Seizure Disorders

38. KUTT H, LOUIS S: Anticonvulsant drugs. I: Pathophysiological and pharmacological aspects. II: Clinical pharmacological and therapeutic aspects. *Drugs* 4:227-255, 256-282, 1972

A review of the mechanism of action and pharmacology of the anticonvulsants. Also provides a concise summary of the classification, pathophysiology, and management of the epilepsies (214 references).

39. KUTT H, PENRY JK: Usefulness of blood levels of anti-epileptic drugs. *Arch Neurol* 31:283-288, 1974

A careful evaluation of the role of anticonvulsant blood level determinations in the management of the epilepsies. This provides the effective and toxic blood level ranges for the major anticonvulsants (65 references).

40. LUND L: Anticonvulsant effect of diphenylhydantoin relative to plasma levels. *Arch Neurol* 31:289-294, 1974

An example of the excellent data that can be generated by following anticonvulsant blood levels. Optimal diphenylhydantoin blood levels for seizure control were assessed prospectively and depended on the severity of the epilepsy (22 references).

41. HILL RM, VERNIAUD WM, HORNING MG, et al: Infants exposed in utero to antiepileptic drugs. *Am J Dis Child* 127:645-653, 1974

A prospective 3-year follow-up study of 28 newborns exposed in utero to anticonvulsant medications. These infants had more disfiguring or life-threatening malformations, as compared with 165 cohort controls (57 references).

42. LOMBROSO CT: The treatment of status epilepticus. *Pediatrics* 53:536-540, 1974

A thorough summary of the therapy of status epilepticus. Although written for pediatricians, the discussion of anticonvulsants and principles of their use is judicious and complete.

43. BOSTON COLLABORATIVE DRUG SURVEILLANCE PROGRAM: Drug-induced convulsions. *Lancet* 2:677-679, 1972

Seizures attributed to drug use appeared in 17 of more than 12 000 medical in-patients surveyed in this study. Patients receiving infusions of penicillin, lignocaine, or insulin appear at greatest risk (7 references).

Central Nervous System Infections

44. SMITH DH, INGRAM DL, SMITH AL, et al: Bacterial meningitis: diagnosis and treatment: a symposium. *Pediatrics* 52:586-600, 1973

A synopsis of the epidemiology, diagnosis, pathology, and treatment of bacterial meningitis (59 references).

45. MANGI RJ, QUINTILIANI R, ANDRIOLE VT: Gram-negative bacillary meningitis. *Am J Med* 59:829-836, 1975

Patients with meningitis due to Gram-negative organisms comprised only 4.2% of all patients with meningitis, but accounted for 69% of meningitis occurring in neurosurgical cases and 42% in neonatal cases (52 references).

46. BREWER NS, MACCARTY CS, WELLMAN WE: Brain abscess: a review of recent experience. *Ann Intern Med* 82: 571-576, 1975

A review of 84 cases of brain abscess, of which 60 were diagnosed and treated surgically. Etiologic, diagnostic, and bacteriologic factors are examined to develop an approach to antimicrobial therapy (36 references).

47. KAUFMAN DM, MILLER MH, STEIGBIGEL NH: Subdural empyema: analysis of 17 recent cases and review of the literature. *Medicine* 54:485-498, 1975

Considers the clinical features, predisposing sites of infection, bacteriology, and treatment. Emphasizes the lack of usefulness of brain scan and electroencephalogram

and the importance of angiography (49 references).

48. GAJDUSEK DC, GIBBS CJ JR: Familial and sporadic chronic neurological degenerative disorders transmitted from man to primates, in *Advances in Neurology*, vol. 10, edited by MELDRUM BS, MARSDEN CD. New York, Raven Press, 1975, pp. 291-317

An updated account of the problems and importance of the study of transfer of slow virus disorders to nonhuman primates (36 references).

49. TOWNSEND JJ, BARINGER JR, WOLINSKY JS, et al: Progressive rubella panencephalitis. Late onset after congenital rubella. *N Engl J Med* 292:990-993, 1975

Three cases of congenital rubella with progressive neurologic deficits are presented. Autopsy showed widespread encephalitis resembling subacute sclerosing panencephalitis (26 references).

50. ELIAN M: Herpes simplex encephalitis: prognosis and long-term follow up. *Arch Neurol* 32:39-43, 1975

Eleven patients with confirmed herpes simplex encephalitis are described. It is proposed that serial recordings may be a useful aid in the prognosis of recovery (14 references).

51. YOSHIKAWA TT, CHOW AW, GUZE LB: Role of anaerobic bacteria in subdural empyema. Report of four cases and review of 322 cases from the English literature. *Am J Med* 58:99-104, 1975

The authors emphasize that anaerobic bacteria are the most common organisms in subdural empyema (55 references).

52. GROSE C, HENLE W, HENLE G, et al: Primary Epstein-Barr-virus infections in acute neurologic diseases. *N Engl J Med* 292:392-395, 1975

The Epstein-Barr virus in the absence of a positive heterophil-antibody response may be the cause of various acute neurologic diseases in children and young adults (23 references).

53. HAMMON WM, HO M: Viral encephalitis. *DM*, 1-47, March 1973

A thorough review of the classification, diagnosis, and management of viral encephalitis including a section on slow viruses (35 references).

Demyelinating Disease

54. POSER C: Recent advances in multiple sclerosis. *Med Clin North Am* 56:1343-1362, 1972

A review of the diagnosis, epidemiology, pathogenesis, and cause and treatment of multiple sclerosis (43 references).

55. LAMOUREUX G, JOLICOEUR R, GIARD N, et al: Cerebrospinal fluid proteins in multiple sclerosis. *Neurology* 25:537-546, 1975

A study of 255 patients with definite multiple sclerosis. Considers the usefulness of measuring IgG and other proteins in active, inactive, or corticosteroid-treated multiple sclerosis (11 references).

56. LIPTON HL, TEARSDALL D: Acute transverse myelopathy in adults. A follow up study. *Arch Neurol* 28:252-257, 1973

A study of 34 adults followed for 5 to 42 years. Interestingly, only 1 patient developed multiple sclerosis. The 11 patients with spinal shock had a poor prognosis, but the other patients did well (24 references).

Toxic Diseases of the Nervous System

57. VICTOR M, ADAMS RD, COLLINS GH: The relationship of Wernicke's disease to other alcoholic and nutritional disorders, in *The Wernicke-Korsakoff Syndrome*, Volume 7, Contemporary Neurology Series. Philadelphia, F. A. Davis Co., 1971, Chapter 8, pp. 137-145

Considers the many neurologic diseases in the alcoholic.

This brief volume reviews 245 cases of the Wernicke-Korsakoff syndrome, with pathology in 82, and considers all aspects of the disorder (347 references).

58. CRITERIA COMMITTEE, NATIONAL COUNCIL ON ALCOHOLISM: Criteria for the diagnosis of alcoholism. *Ann Intern Med* 77:249-258, 1972

In reviewing the criteria for diagnosis, this paper succinctly tabulates the effects of alcohol on all organ systems. Focuses on risk factors, prognosis, and associated problems (9 references).

59. DALES LG: The neurotoxicity of alkyl mercury compounds. *Am J Med* 53:219-232, 1972

A comprehensive review of clinical and epidemiologic factors involved in accidental poisoning with organic mercurial compounds, an environmental problem of considerable worldwide importance (45 references).

60. BOSTON COLLABORATIVE DRUG SURVEILLANCE PROGRAM: Drug-induced extrapyramidal symptoms. *JAMA* 224:889-891, 1973

Two thousand forty-nine patients receiving phenothiazines, tricyclic antidepressants, or butyrophenones in a general hospital setting were surveyed. Of these, 0.9% developed extrapyramidal signs. Short-term use and long-term use of such drugs are compared (9 references).

61. SCHIELE BC, GALLANT D, SIMPSON G, et al: Tardive dyskinesia. A persistent neurological syndrome associated with antipsychotic drug use. *Ann Intern Med* 79:99-100, 1973

A brief review of movement disorders, at times permanent, occurring in children and adults treated with various antipsychotic agents.

62. WHITFIELD CL, CH'UEN LT, WHITEHEAD JD: Lead encephalopathy in adults. *Am J Med* 52:289-298, 1972

A series of 23 adult cases with lead encephalopathy resulting from drinking moonshine, with the clinical and laboratory features being compared with those previously reported. Diagnostic criteria are stressed (50 references).

Neuromuscular Diseases

63. THOMAS PK: Metabolic neuropathy. *J R Coll Physicians Lond* 7:154-160, 1973

A brief review of amyloid, uremic, and diabetic neuropathies, with emphasis on clues to pathogenesis from nerve biopsies and motor nerve conduction studies, as well as other current theories of causation (31 references).

64. MURRAY TS, PRIDE S, HALEY G: Motor neuron disease in Nova Scotia. *Can Med Assoc J* 110:814-817, 1974

A complete general review of motor neuron disease based on a series of 52 patients. Also comments on recent research trends (16 references).

65. ROWLAND LP: Muscular dystrophies. *DM*, 1-38, November 1972

A complete review of classification, diagnostic criteria, differential diagnosis, carrier detection, and antenatal diagnosis of the muscular dystrophies (5 references).

66. BOHAN A, PETER JB: Polymyositis and dermatomyositis. *N Engl J Med* 292:344-347, 403-407, 1975

A careful and thoughtful discussion that reviews the areas of agreement on clinical and laboratory features and the more controversial areas of classification, associations with other diseases, and management (106 references).

67. ENGEL WK, FESTOFF BW, PATTEN BM, et al: Myasthenia gravis. *Ann Intern Med* 81:225-246, 1974

A thorough, general review that describes both normal neuromuscular transmission and the abnormalities in myasthenia gravis and reviews the authors' experience with long-term high single dose, alternate-day steroid therapy

(135 references).

68. AHARANOV A, ABRAMSKY O, TARRAB-HAZDIA R, et al: Humoral antibodies to acetylcholine receptor in patients with myasthenia gravis. *Lancet* 2:340-342, 1975
The first direct demonstration of the presence of circulating antibodies to acetylcholine receptor in myasthenic sera, predicted from work on the experimental model of myasthenia in animals immunized with purified receptor (37 references).
69. CHERINGTON M: Botulism. *Arch Neurol* 30:432-437, 1974
A description of the clinical features, steps in confirmation of the diagnosis, electrophysiologic characteristics, and management of 14 patients with this type of disturbance of neuromuscular transmission (17 references).
70. ROWLAND LP, PENN AS: Myoglobinuria. *Med Clin North Am* 56:1233-1256, 1972
A review of 38 cases of myoglobinuria collected during 4 years at a university hospital, indicating that myoglobinuria is not rare. Procedures to identify the pigment are outlined. Discusses the types of initiating muscle injury (196 references).
71. YEUNG RTT, TSE TF: Thyrotoxic periodic paralysis. *Am J Med* 57:584-590, 1974
A study that suggests the value of propranolol in thyrotoxic periodic paralysis. Acetazolamide, the standard therapy of hypokalemic forms, may be deleterious. The rationale for propranolol use and recent concepts of pathogenesis are discussed (11 references).
72. BRITT BA: Malignant hyperthermia: a pharmacogenetic disease of skeletal and cardiac muscle. *N Engl J Med* 290:1140-1142, 1974
Editorial review of this devastating illness that has been written about extensively in the anesthesiology literature. Discusses diagnostic, therapeutic, and genetic aspects (11 references).

Neurologic Manifestations of Systemic Disease

73. GREENLEE JE, MANDELL GL: Neurological manifestations of infective endocarditis: a review, *Stroke* 4:958-963, 1973
Reviews the incidence and clinical features of the protean manifestations of endocarditis. Infarction, mycotic aneurysm, encephalitis, abscess, hemorrhage, and psychiatric symptoms are all seen (34 references).
74. PORTNOY BA, HERION JC: Neurological manifestations in sickle-cell disease. With a review of the literature and emphasis on the prevalence of hemiplegia. *Ann Intern Med* 76:643-652, 1972
Of 89 patients followed for 5 years, 26% had neurologic manifestations. Hemiplegia was the most frequent complication (105 references).
75. RASKIN NH, FISHMAN RA: Neurologic disorders in renal failure. *N Engl J Med* 294:143-148, 1976
Concise summary of the clinical features, pathogenesis, and management of the myriad central and peripheral nervous system complications of uremia (69 references).
76. BENNAHUM DA, MESSNER RP: Recent observations of central nervous system lupus erythematosus. *Semin Arthritis Rheum* 4:253-266, 1975
Authors review the experience of others and present findings in their own 54 patients. They give a balanced review of the unresolved controversy over optimal therapy (109 references).
77. RUSSELL ML, GORDON DA, OGYZLO MA, et al: The cauda equina syndrome of ankylosing spondylitis. *Ann Intern Med* 78:551-554, 1973
This paper and the subsequent one by Gordon and Yudell report six patients with progressive sphincter dysfunction,

buttock pain, and sacral sensory loss. Most patients suffered unnecessary prostatic surgery because of mistaken diagnosis (8 references).

78. JOYNT RJ: The brain's uneasy peace with tumors, in "Paraneoplastic Syndromes." *Ann NY Acad Sci* 230:342-347, 1974
Succinct synopsis of nonmetastatic complications of systemic malignancy. Considers possible causes (30 references).

Medical Complications of Neurologic Diseases

79. SINHA S, MUNICHOODAPPA CS, KOZAK GP: Neuroarthropathy (Charcot joints) in diabetes mellitus. *Medicine (Baltimore)* 51:191-210, 1972
A review of 101 cases emphasizing natural history, value of diabetic control, and differential diagnosis (129 references).
80. GRIGGS RC: Hypertrophy and cardiomyopathy in the neuromuscular diseases. *Circ Res* 34 (suppl II):145-151, 1974
A review that emphasizes the frequency and type of cardiac involvement in myopathies, particularly myotonic dystrophy, as well as possible myopathic features of skeletal muscle in cardiomyopathy (34 references).

Neuroendocrinology

81. MARTIN JB: Neural regulation of growth hormone secretion. *N Engl J Med* 288:1384-1393, 1973
A review of growth hormone regulation with major emphasis on the role of the central nervous system (83 references).
82. BESSER GM: Hypothalamus as an endocrine organ. I & II. *Br Med J* 3:560-564, 613-615, 1974
A review of the structure, function, and clinical uses of the hypothalamic regulatory hormones, thyrotrophin releasing hormone, luteinizing hormone releasing hormone, and somatostatin (57 references).
83. BRAY GA, GALLAGHER TF JR: Manifestations of hypothalamic obesity in man: a comprehensive investigation of eight patients and a review of the literature. *Medicine (Baltimore)* 54:301-330, 1975
Reviews the evidence in man for hypothalamic causation of certain types of obesity (335 references).
84. SRIDHAR CB, CALVERT GD, IBBERTSON HK: Syndrome of hypernatremia, hypodipsia, and partial diabetes insipidus: new interpretation. *J Clin Endocrinol Metab* 38:890-901, 1974
A thoughtful discussion of the role of hypothalamic mechanisms in the regulation of antidiuretic hormone, thirst, and sodium balance (32 references).

Degenerative Diseases

85. MOSKOWITZ MA, WURTMAN R: Catecholamines and neurologic diseases. *N Engl J Med* 293:274-279, 332-338, 1975
An excellent review of clinically important neuropharmacologic mechanisms. The topic is one of contemporary importance of much broader significance than in extrapyramidal disease alone (195 references).
86. WINKLER GF, YOUNG RR: Efficacy of chronic propranolol therapy in action tremors of the familial, senile, or essential varieties. *N Engl J Med* 290:984-988, 1974
A well-performed and nicely documented clinical study supporting the value of a new therapy for a fairly common, therapeutically neglected, and troublesome clinical problem (27 references).
87. YAHR M, DUVOISIN RC: Drug therapy of Parkinsonism. *N Engl J Med* 287:20-24, 1972

A concise review of the rationale and the usefulness of old and new agents that have a place in the therapy of Parkinsonism. Keeps in perspective the total therapy of the disorder and not just the admittedly exciting advance of levodopa (5 references).

88. KLAUWANS HL JR, PAULSON GW, RINGEL EP, et al: Use of L-dopa in the detection of pre-symptomatic Huntington's chorea. *N Engl J Med* 286:1332-1334, 1972

Although the use proposed is ethically controversial, it elucidates mechanisms in the basal ganglia, and it may be of importance in a disorder in which genetic counseling can be vital to the subjects at risk (17 references).

89. YAHN MD: Levodopa. *Ann Intern Med* 83:677-682, 1975

Reviews the indications and contraindications for therapy. Considers the toxic effects, drug interactions, and the usefulness of the peripheral dopa decarboxylase inhibitor, carbidopa (27 references).

Congenital Abnormalities

90. BANERJI NK, MILLAR JHD: Chiari malformation presenting in adult life. Its relationship to syringomyelia. *Brain* 97:157-168, 1974

A summary of 20 cases of this unusual but important cause of headache, dizziness, ataxia, or bulbar signs. Typical signs of syringomyelia may be present. Surgery may be helpful in selected cases (36 references).

Hereditary and Metabolic Diseases

91. BRADY RO: The lipid storage diseases: new concepts and control. *Ann Intern Med* 82:257-261, 1975

Each of the 10 lipid storage diseases is associated with a deficiency of a specific catabolic enzyme. Prenatal diagnosis of several disorders is practical. Enzymatic replacement therapy is discussed (28 references).

92. STRICKLAND GT, LEU M: Wilson's disease. Clinical and laboratory manifestations in 40 patients. *Medicine (Baltimore)* 54:113-137, 1975

Although rare, Wilson's disease is a potentially treatable cause of neurologic, liver, and renal disease or anemia. Discusses the initial and subsequent features of 40 patients (111 references).

93. STERNLIEB I, BENNETT B, SCHEINBERG IH: D-penicillamine induced Goodpasture's syndrome in Wilson's disease. *Ann Intern Med* 82:673-676, 1975

Reviews the toxicity of penicillamine, the treatment of choice for Wilson's disease. Fatal pulmonary and renal disease occurred in three patients (32 references).

94. PERRY TL, HANSEN S, TISCHLER B, et al: Unrecognized adult phenylketonuria. Implications for obstetrics and

psychiatry. *N Engl J Med* 289:395-398, 1973

Most new cases of phenylketonuria (PKU) are now detected in the neonatal period. This paper presents six adults with normal intelligence and phenylketonuria. Psychosis occurred in two patients, and nine retarded children without phenylketonuria were born to affected women (7 references).

95. TSCHUDY DP, VALSAMIS M, MAGNUSSEN CR: Acute intermittent porphyria: clinical and selected research aspects. *Ann Intern Med* 83:851-864, 1975

Reviews work suggesting that decreased uroporphyrinogen I synthetase is the fundamental defect in the disease. Diagnosis by enzyme activity measurement is possible, and therapy with carbohydrate or hematin is of possible benefit (123 references).

Diseases of the Eye

96. COGAN DG: Fundus signs of systemic vascular disease, in *Ophthalmic Manifestations of Systemic Vascular Disease*. Philadelphia, W. B. Saunders Co., 1974, chapter 5, pp. 74-100

Brief, well-illustrated monograph describing manifestations of diabetes, hypertension, atherosclerosis, and the collagen diseases, as well as primary arterial and venous occlusive disease of the eye. Chapter 5 is particularly helpful (709 references).

97. WERNER SC: The eye changes in Grave's disease. Overview. *Mayo Clin Proc* 47:969-974, 1972

A brief review with two following articles. Summarizes the current status of cause and treatment of ophthalmopathy in both thyrotoxic and euthyroid patients (37 references).

98. PFAFFENBACH DD, HOLLENHORST RW: Morbidity and survivorship of patients with embolic cholesterol crystals in the ocular fundus. *Am J Ophthalmol* 75:66-72, 1973

Emphasizes the significance of emboli seen on funduscopy in the diagnosis of extracranial vascular disease (8 references).

99. HARRISON R: Glaucoma in the elderly. *Geriatrics* 30:55-65, 1975

Reviews current practices in diagnosis and management of glaucoma in persons of all ages and emphasizes difficulties of management in elderly persons (25 references).

100. BEUTLER E, MATSUMOTO F, KUHL W, et al: Galactokinase deficiency as a cause of cataracts. *N Engl J Med* 288:1203-1206, 1973

Emphasizes that cataracts occurring early in life can be a sign of an underlying metabolic or other generalized disorder. In the authors' series, 4 of 94 patients had an abnormality of galactose metabolism (28 references).

Book Reviews

Dictionnaire français de Médecine et de Biologie. In four volumes. Compiled by A. Manuila, L. Manuila, M. Nicole, and H. Lambert; with the collaboration of J. Hureau, J. Polonovski. Masson et Cie, Publishers, Paris, 1970-1974. Price: Vol. I & II, \$107.90 each; Vol. III, \$135.20; Vol. IV, \$78.

Dorland's Illustrated Medical Dictionary. Twenty-fifth Edition. 1748 pages. W. B. Saunders, Publisher, Philadelphia, London, Toronto, 1974. Price: Standard edition, \$21.50; Deluxe edition, \$28.50.

Abbreviations and Acronyms in Medicine and Nursing. Compiled by Solomon Garb, Eleanor Karkauer, and Carson Justice. 122 pages. Springer Publishing Company, New York, 1976. Price: cloth, \$6.95; paper, \$3.95.

PREPARING AND PUBLISHING a new medical dictionary is no small task. On this criterion alone the compilers of *Dictionnaire français de Médecine et de Biologie* merit praise for their having put together a major French dictionary with scholarly orientation for medicine and the biomedical

THE
LITERATURE
OF
MEDICINE

Hematology-Oncology: An Annotated Bibliography of Recent Literature

References to Journal Articles and Other Papers

HEMATOLOGY-ONCOLOGY COMMITTEE*, MEDICAL KNOWLEDGE SELF-ASSESSMENT PROGRAM IV, AMERICAN COLLEGE OF PHYSICIANS; Philadelphia, Pennsylvania

THIS BIBLIOGRAPHY includes references to 78 recently published journal papers and similar sources that represent recent developments important in the concepts and practice of internal medicine. It has been compiled as a part of the work of the Hematology-Oncology Committee toward the preparation of the *Medical Knowledge Self-Assessment Program IV Syllabus*.

In preparing this bibliography, the committee reviewed MEDLINE† bibliographic printouts of journal articles published since the beginning of 1972 and also drew on their own files. Papers were selected with a view to their likely availability in libraries of hospitals and other clinical institutions in the United States and Canada. This is the reason for the listing only of papers in English and for the preponderant representation of American journals and books.

Disorders of Blood Coagulation

1. BENNETT B, RATNOFF OD: Detection of the carrier state of classic hemophilia. *N Engl J Med* 288:342-345, 1973
Carriers of classic hemophilia can be detected in most instances by comparing the levels of functional factor VIII and antigenically reactive factor VIII. This study of known and possible carriers shows the value of this approach.
2. LEVINE PH: Efficacy of self-therapy in hemophilia: a study of 72 patients with hemophilia A and B. *N Engl J Med* 291:1381-1384, 1974
Home therapy and self-therapy of patients with hemophilia have proven very successful from medical, social, and economic points of view, as this paper reports.
3. WEISS HJ: Platelet physiology and abnormalities of

platelet function. *N Engl J Med* 293:531-541, 580-588, 1975

An excellent review of platelet physiology and platelet abnormalities, including a detailed exposition of pathophysiology of von Willebrand's disease.

4. WEISS HJ: Defects of factor VIII and platelet aggregation—use of ristocetin in diagnosing the von Willebrand syndrome. *Blood* 45:403-412, 1975

The antibiotic ristocetin has become an important reagent in the study of von Willebrand's disease. This paper discusses its use in the diagnosis of this disease.

5. BLATT PM, LUNDBLAD RL, KINGDON HS, et al: Thrombogenic materials in prothrombin complex concentrates. *Ann Intern Med* 81:766-770, 1974

Shows that commercially available prothrombin complex concentrates contain activated procoagulants, probably factors Xa and IXa, which may be thrombogenic.

6. MERSKEY C: Defibrination syndrome or . . . ? *Blood* 41:599-603, 1973

A provocative discussion of the present uncertainties regarding the concept of disseminated intravascular coagulation.

7. SHERMAN LA, WESSLER S, AVIOLI LV: Therapeutic problems of disseminated intravascular coagulation. *Arch Intern Med* 132:446-453, 1973

An interesting discussion of disseminated intravascular coagulation including pathogenesis, diagnosis, and therapy. The variables to be considered in reaching a decision regarding therapy are reviewed and the means of evaluating therapy discussed.

8. JACOBSON RJ, JACKSON DP: Erythrocyte fragmentation in defibrination syndromes. *Ann Intern Med* 81:207-209, 1974
Emphasizes that a significant number of patients with disseminated intravascular coagulation have fragmented erythrocytes readily detected on a film of peripheral blood. Marked erythrocyte changes were associated with tissue damage.

9. MANT MJ, HIRSH J, PINEO GF, et al: Prolonged prothrombin time and partial thromboplastin time in dis-

* William J. Williams, M.D., F.A.C.P., Chairman; Frank H. Gardner, M.D., F.A.C.P.; John R. Durant, M.D., F.A.C.P.; Dane R. Boggs, M.D.; Peter White, M.D.; Gibbons G. Cornwell, III, M.D., F.A.C.P.; and Patrick Growney, M.D.

Reprints are not available.

† Computer literature-file of the National Library of Medicine, Bethesda, Maryland, consulted through the Regional Medical Library service Library of the College of Physicians of Philadelphia, with the technical assistance of Ruthanne Henner.

seminated intravascular coagulation not due to deficiency of factors V and VIII. *Br J Haematol* 24:725-734, 1973

Demonstrates that vitamin-K deficiency must be considered in the differential diagnosis of disseminated intravascular coagulation, especially in patients with a prolonged prothrombin time and partial thromboplastin time but a normal thrombin time.

10. FEINSTEIN DI, RAPAPORT SI: Acquired inhibitors of blood coagulation. *Prog Hemostasis Thromb* 1:75-95, 1972

An excellent review of the subject, including detailed discussion on the "lupus anticoagulant."

Thrombosis

11. Prevention of fatal postoperative pulmonary embolism by low doses of heparin. An international multicentre trial. *Lancet* 2:45-51, 1975

Provides statistically significant data indicating that "mini-dose" heparin is effective in preventing deep venous thrombosis and pulmonary embolism in postoperative patients. Complications limited to an increase in the number of wound hematomas.

12. KAKKAR VV: Deep vein thrombosis. Detection and prevention. *Circulation* 51:8-19, 1975

A detailed review of the detection and prevention of deep vein thrombosis.

13. O'REILLY RA: Interaction of chronic daily warfarin therapy and rifampin. *Ann Intern Med* 83:506-508, 1975

An example of drug interaction involving warfarin, a problem which is ever present and ever increasing as new drugs are introduced into clinical practice.

14. GENTON E, GENT M, HIRSH J, et al: Platelet inhibiting drugs in the prevention of clinical thrombotic disease. *N Engl J Med* 293:1174-1178, 1236-1240, 1246-1300, 1975

A complete review of the present status of antiplatelet drugs in the prevention of thrombosis, both arterial and venous.

Platelet Disorders

15. TEN CATE JW: Platelet function tests. *Clin Haematol* 1:283-294, 1972

A good review of the current tests used to evaluate platelet function.

16. McMILLIAN R, LONGMIRE RL, YELENOSKY R, et al: Quantitation of platelet-binding IgG produced in vitro by spleens from patients with idiopathic thrombocytopenic purpura. *N Engl J Med* 291:812-817, 1974

Further laboratory data to explain platelet antibody function in the spleen.

17. BELLER FK, DOUGLAS GW: Thrombocytopenia indicating Gram-negative infection and endotoxemia. *Obstet Gynecol* 41:521-524, 1973

It is important for a clinician to recognize the frequency of thrombocytopenia in patients with Gram-negative sepsis.

18. RIES CA, PRICE DC: [⁵¹Cr] Platelet kinetics in thrombocytopenia. Correlation between splenic sequestration of platelets and response to splenectomy. *Ann Intern Med* 80:702-707, 1974

Reports that proper positioning of the probe for external surface scanning of the spleen can predict outcome of splenectomy in idiopathic thrombocytopenic purpura.

19. LOHRMANN H-P, BULL MI, DECTER JA, et al: Platelet transfusions from HL-A compatible unrelated donors to alloimmunized patients. *Ann Intern Med* 80:9-14, 1974

HL-A compatible platelet donors can be used effectively for transfusion support of alloimmunized patients.

20. ABRAMSON N, EISENBERG PD, ASTER RH: Post-transfusion

purpura: immunologic aspects and therapy. *N Engl J Med* 291:1163-1166, 1974

A detailed study of a case of post-transfusion purpura, with characterization of the antibodies and discussion of treatment by plasmaphoresis.

21. RHODES GR, DISON RH, SILVER D: Heparin induced thrombocytopenia with thrombotic and hemorrhagic manifestations. *Surg Gynecol Obstet* 136:409-416, 1973

Adds to the evidence that possibly one third of patients receiving heparin may have varying degrees of platelet depression.

22. THOMPSON RL, MOORE RA, HESS CE, et al: Idiopathic thrombocytopenic purpura. Long-term results of treatment and the prognostic significance of response to corticosteroids. *Arch Intern Med* 130:730-734, 1972

A useful review of the value of steroids versus splenectomy in treatment of idiopathic thrombocytopenic purpura.

Anemia

23. VARAT MA, ADOLPH RJ, FOWLER NO: Cardiovascular effects of anemia. *Am Heart J* 83:415-426, 1972

A review of hemodynamic changes, compensatory mechanisms to maintain oxygen transport, and clinical cardiovascular findings in anemic patients.

24. BELLINGHAM AJ, GRIMES AJ: Red cell 2,3-diphosphoglycerate. *Br J Haematol* 25:555-562, 1973

A concise summary of our current understanding of the physiologic significance of this compound for oxygen transport.

25. ROSSE WF: Correlation of in vivo and in vitro measurements of hemolysis in hemolytic anemia due to immune reactions. *Prog Hematol* 8:51-75, 1973

A detailed analysis of the mechanisms by which antibodies and complement mediate erythrocyte destruction in various hemolytic states.

26. GARRATTY G, PETZ LD: Drug-induced immune hemolytic anemia. *Am J Med* 58:398-407, 1975

Discusses clinical and laboratory characteristics and pathogenetic mechanisms of erythrocyte sensitization in patients with drug-related hemolysis.

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Case reports and literature review of this increasingly recognized complication of viral hepatitis. Prognosis for marrow recovery is poor.

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55. GOLDSMITH MA, CARTER SK: Combination chemotherapy of advanced Hodgkin's disease. *Cancer* 33:1-8, 1974
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- Dysproteinemias**
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of 37 tumors that persisted or recurred after primary therapy. *Cancer* 34:606-614, 1974

An important reminder of the association between diethylstilbesterol taken during pregnancy and the subsequent development of clear-cell adenocarcinomas of the lower genital tract in young women.

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Reviews virtually all of the aspects of lung cancer that are important in regard to diagnosis, staging, and future potential for early diagnosis and immunotherapy.

78. REYNOLDS RD, GREENBERG BR, MARTIN ND, et al: Usefulness of bone marrow serum acid phosphatase in staging carcinoma of the prostate. *Cancer* 32:181-184, 1973

A good review for those interested in tumor immunology, blocking factor, and the role of host's immunity in malignancy.

Book Reviews

How To Be Your Own Doctor—Sometimes. By Keith W. Sehnert with Howard Eisenberg. 353 pages. Grosset & Dunlap Publishers, New York, 1975. Price, \$9.95.

HAVING HEARD DR. SEHNERT'S lecture about patient education and his "Course for the Activated Patient," I looked forward to the book he mentioned then that he was writing. My initial reaction on reading it was so negative that I re-read it. My reaction still stands; this is not a book I would recommend to my patients. There is not much damaging in Sehnert's overall message (except possibly as a colleague's representation of physicians as a class), but neither is there a great deal that is really useful or lives up to the grand promise of his title.

The style is overly anecdotal and somewhat patronizing—possibly because the book was written "with" Howard Eisenberg who is a professional medical journalist and a senior editor of *Medical Economics*. It is populated with people like Albert Armageddon (he saves medicines in his bathroom closet), Paula Pillpopper, Drs. Smiley and Well-being, and poor Mrs. Meek, who is afraid to ask her doctor about the possible side effects of the pills he is prescribing and whether she should take them before or after meals.

Sehnert recommends that everyone should own an otoscope, sphygmomanometer, and stethoscope. The stethoscope is mainly to use to count pulse rate and also to take blood pressures at home and in the neighborhood. As an example of the stethoscope's great utility Sehnert cites the saga of one of his "activated patients" who detected tachycardia in her own daughter the first week she had hers. The daughter, who had been given tetracycline for a sore throat (presumably by her own preactivated mother), was then "put on penicillin" by Sehnert in time to save her from rheumatic fever. Music. Dim lights. Kleenex.

I find his additional reason that nonmedical persons might hope to own a stethoscope worrisome, even if made in jest. He reminds his readers, in case they don't already know it, that a stethoscope hanging out of a pocket is open sesame to most prohibited-to-visitor areas in hospitals.

Must the patient-physician encounter be seen as an encounter between adversaries? It seems to me that Sehnert by the tenor of his advice frequently encourages the spread of this destructive idea. For example, in his discussion of adverse drug reactions, he proposes that small-weight patients ask their physicians for "the lowest dose possible"

or if they are too timid to do so, mention their concern to their druggist so he can "phone the doctor and diplomatically remind him that you're only 105 pounds and the dosage may be too strong. Any pharmacist worth his salt substitute will do it, and doctors know a good pharmacist can save their necks." This is vintage Sehnert.

Sehnert, whose own chronic backache has responded well to yoga, recommends it as often helpful for insomnia, headaches, nervous tension, and other common ills. He doesn't quite ally himself with the enthusiasts who claim yoga prevents colds, but he provides his own plausible albeit unsubstantiated explanation of why that might be true: the extra blood flow to the nose achieved during a shoulder stand may provide "a white cell bonus" to repair mucous membranes more rapidly so "there are less likely to be gaps in the membrane for germs to penetrate."

His attitudes towards psychiatry is pejorative. "Anyone can learn to cope," he says, and includes a quiz from the lesser literature (*Harper's Bazaar*). However, if you answer yes to six or more questions he does suggest "you would be wise to check with a doctor, minister, or psychiatrist without delay." For less serious noncopers (3 to 4 yeses) he lists 12 coping rules, of which number 3 is "Avoid hurry, flurry, worry," and number 12 is "Avoid loneliness."

Once editor of *Computer Medicine*, Sehnert is a strong believer in protocols (or clinical algorithms, as computer-niks are wont to call them) for diagnosis and treatment. In fact, says Sehnert, high school graduates with less than 2 weeks of part-time training have very successfully cared for diabetics by the use of protocols and "in most cases patients with low-back pain treated according to protocols recovered faster than those treated directly by physicians." The *Self-Help Medical Guide*, a 128-page section in the middle of the book, abstracts the 14 most common diseases, 13-most common injuries, and 9 most common emergencies. Possible heart attack is discussed by means of a 13 step algorithm. If a reader has chest pain with characteristics that move him past reassurance on to step 13, he is advised "CALL DOCTOR," and directed to the nearest hospital. There he is further advised to "tell the emergency room nurse that you may be having a heart attack. Insist on going to the CORONARY CARE UNIT—even if you only SUSPECT a heart attack. This kind of insistence may be difficult in a busy emergency room where the staff can get 'immune' to 'emergencies,' but do your

THE
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Cardiovascular Disease: An Annotated Bibliography of Recent Literature

References to Journal Articles and Other Papers

CARDIOVASCULAR DISEASES COMMITTEE*, MEDICAL KNOWLEDGE SELF-ASSESSMENT PROGRAM
IV, AMERICAN COLLEGE OF PHYSICIANS; Philadelphia, Pennsylvania

THIS BIBLIOGRAPHY includes references to 76 recently published journal papers and similar sources that represent recent developments important in the concepts and practice of internal medicine. It has been compiled as a part of the work of the Cardiovascular Diseases Committee toward the preparation of the *Medical Knowledge Self-Assessment Program IV Syllabus*.

In preparing this bibliography, the committee reviewed MEDLINE† bibliographic printouts of journal articles published since the beginning of 1972 and also drew on their own files. Papers were selected with a view to their likely availability in libraries of hospitals and other clinical institutions in the United States and Canada. This is the reason for the listing only of papers in English and for the preponderant representation of American journals and books.

Arterial Disease

1. GORE I, HIRST AE JR: Dissecting aneurysm of the aorta. *Prog Cardiovasc Dis* 16:103-111, 1973
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2. DEWOLFE VG: Assessment of the circulation in occlusive arterial disease of the lower extremities. *Mod Concepts Cardiovasc Dis* 45: 91-95, 1976
The salient historical features, physical findings, and diagnostic studies that enable the clinician to approach rationally the problem of occlusive arterial disease.
3. DEBAKEY ME, NOON GP: Aneurysms of the thoracic aorta. *Mod Concepts Cardiovasc Dis* 44:53-58, 1975
Clinical manifestations, diagnosis, and treatment of thoracic aneurysms; emphasis on the surgical approach.

* James J. Leonard, M.D., F.A.C.P., Chairman; John S. Barrett, M.D.; Ernest Craig, M.D., F.A.C.P.; Donald F. Leon, M.D., F.A.C.P.; James Ronan, M.D., F.A.C.P.; John A. Spittell, M.D., F.A.C.P.; Robert C. Tarazi, M.D., F.A.C.P.; Charles F. Wooley, M.D., F.A.C.P.; and Peter Yurchak, M.D., F.A.C.P.

† Computer literature-file of the National Library of Medicine, Bethesda, Maryland, consulted through the Regional Medical Library service Library of the College of Physicians of Philadelphia, with the technical assistance of Ruthanne Henner.

4. WHEAT MW JR: Treatment of dissecting aneurysms of the aorta: current status. *Prog Cardiovasc Dis* 16:87-101, 1973
A balanced therapeutic view emphasizing patient selection, the use of intensive drug therapy as initial treatment in all cases, definitive therapy in Type III dissections, and adjunctive therapy in patients requiring surgical management.

Coronary-Artery Heart Disease

5. KOSSMAN CE: Changing views of the spectrum and management of atherosclerotic coronary artery disease, in *Advances in Internal Medicine*, vol. 21, edited by STOLLERMAN GH, Chicago, Yearbook Publishers, 1976, pp. 363-389
An excellent, succinct summary of current thinking on all aspects of coronary-artery heart disease.
6. BLACKBURN H: Progress in the epidemiology and prevention of coronary heart disease. *Prog Cardiol* 3:1-36, 1974
A recent review: the possible contribution of various risk factors to the genesis of coronary-artery heart disease; attitudes toward its prevention.
7. CHAPIRO S: Oral contraceptives and myocardial infarction (editorial). *N Engl J Med* 293: 195-196, 1975
A recent summary of the evidence linking these commonly used medications to myocardial infarction.
8. ENDO M, HIROSAWA K, KANEKO N, et al: Prinzmetal's variant angina. Coronary arteriogram and left ventriculogram during angina attack induced by methacholine. *N Engl J Med* 294:252-155, 1976
Clear demonstration that this form of angina can result from spasm in angiographically normal coronary arteries and that the spasm can be provoked by parasympathomimetic agents.
9. GAULT JH, GENTZLER RD: The anginal syndrome without evidence of coronary artery disease, in *Advances in Internal Medicine*, vol. 21, edited by STOLLERMAN GH, Chicago, Yearbook Publishers, 1976, pp. 335-348
Excellent current review of a controversial topic.
10. ROBB GP, SELTZER F: Appraisal of the double two-step exercise test: a long-term follow-up study of 3,325 men. *JAMA* 234:722-727, 1975

The most recent summary of long and carefully accumulated evidence relating prognosis to performance during the Master's two-step exercise test.

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An extensive study correlating the results of stress testing with angiographic findings and the severity of coronary artery involvement.

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A most important longitudinal study of coronary disease demonstrating that prognosis depends on distribution of lesions rather than severity of symptoms.

13. WARREN SG, BREWER DL, ORGAIN ES: Long-term propranolol therapy for angina pectoris. *Am J Cardiol* 37:420-426, 1976

Recent summary of clinical experience with the drug that is the most valuable new form of preventive therapy for angina.

14. Coronary-artery bypass surgery (editorial). *Lancet* 1:841-842, 1976

Valuable well-referenced, brief statement on place of surgery in treatment of coronary disease.

15. MUNDTH E, AUSTEN WG: Surgical measures for coronary heart disease. *N Engl J Med* 293:13-19, 75-80, 124-130, 1975

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17. PALMER RF, LASSETER KC: Drug therapy. Sodium nitroprusside. *N Engl J Med* 292:294-297, 1975

Clinical guide for treatment of decreased cardiac output in myocardial infarction by reduction of ventricular afterload.

18. SWAN HJC, BLACKBURN HW, DE SANCTIS R, et al (AD HOC COMMITTEE REVIEW): Duration of hospitalization in "uncomplicated completed acute myocardial infarction." *Am J Cardiol* 37:413, 1976

Review of the evidence that supports decreased hospitalization time for many patients with myocardial infarct.

19. MCNEER JF, STARMER CF, BARTEL AG, et al: The nature of treatment selection in coronary artery disease. Experience with medical and surgical treatment of a chronic disease. *Circulation* 49:606-614, 1974

Valuable article indicating that some subsets of coronary disease patients fare better with surgery, but that other subsets do equally well or equally poorly regardless of the mode of treatment.

Congenital Heart Disease

20. PERLOFF JK: Pediatric congenital cardiac becomes a post-operative adult. The changing population of congenital heart disease. *Circulation* 47:606-619, 1973

Surgical intervention producing anatomic correction of congenital cardiac defects with residua may become the concern of the internist; examples and potential clinical problems are considered.

21. GERSONY WM, KRONRAD E: Evaluation and management of patients after surgical repair of congenital heart disease. *Prog Cardiovasc Dis* 18:39-56, 1975

An encyclopedic consideration of natural course and complications after surgical correction of congenital cardiac defects; new diagnostic and therapeutic challenges for the internist and adult cardiologist; 187 references.

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defect or tetralogy of Fallot. *Circulation* 47:1065-1075, 1973

Hemodynamic abnormalities detected with vigorous testing despite lack of symptoms and with normal or near normal resting hemodynamics; long-term significance of impairment as yet unknown.

23. ASKENAZI J, AHNBERG DS, KORNGOLD E, et al: Quantitative radionuclide angiography: detection and quantitation of left to right shunts. *Am J Cardiol* 37:382-387, 1976

Describes use and advantages of the method as an alternative to cardiac catheterization, as well as precautions and potential drawbacks.

24. NASRALLAH AT, HALL RJ, GARCIA E, et al: Surgical repair of atrial septal defect in patients over 60 years of age. Long-term results. *Circulation* 53:329-331, 1976

Successful cardiac surgery in the seventh and eight decades now includes certain selected patients with valvular heart disease, coronary-artery heart disease, and conduction system disease; here it is extended to patients with atrial septal defects.

Endocarditis

25. HOPPE WL, LERNER PI: Nonenterococcal group-D streptococcal endocarditis caused by *Streptococcus bovis*. *Ann Intern Med* 81:588-599, 1974

Describes a form of endocarditis that has usually been ascribed to *Streptococcus faecalis* and tells how to properly identify and treat it.

26. LACHMAN AS, BRAMWELL-JONES DM, LAKIER JB, et al: Infective endocarditis in the billowing mitral leaflet syndrome. *Br H J* 37:326-330, 1975

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27. KLOSTER FE: Diagnosis and management of complications of prosthetic heart valves. *Am J Cardiol* 35:872-885, 1975

An excellent review of the diagnosis and treatment of the infectious, thrombotic, and hemolytic complications of prosthetic heart valves.

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28. DUSTAN HP: Evaluation and therapy of hypertension—1976. *Mod Concepts Cardiovasc Dis* 45:97-103, 1976

A succinct overview of the practical evaluation of the patient with hypertension coupled with both rational and empirical ("stepped care") therapeutic approach.

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An excellent presentation of the various pathophysiologic regulatory mechanisms at play in hypertension with emphasis on the apparent predominance of one abnormality complicated by multiple compensatory mechanisms.

30. FREIS ED: The clinical spectrum of essential hypertension. *Arch Intern Med* 133:982-987, 1974

The distillate of Dr. Freis's many years of observing hypertensive patients, including the spectrum of the disease, its natural history, and its alteration with treatment.

31. KOCH-WESER J: Correlation of pathophysiology and pharmacotherapy in primary hypertension. *Am J Cardiol* 32:499-510, 1973

Pressor mechanisms in primary hypertension (cardiac output, peripheral vascular resistance, intravascular volume, and activity of the renin-angiotensin-aldosterone and sympathetic nervous system). Recommended treatment based on pathophysiology and basic pharmacologic action of drugs.

32. VETERANS ADMINISTRATION COOPERATIVE STUDY GROUP ON ANTIHYPERTENSIVE AGENTS: Effect of treatment on morbidity in hypertension. III. Influence of age, diastolic pressure and prior cardiovascular disease; further analysis of side effects. *Circulation* 45:991-1004, 1972

The third of three landmark reports on the natural history of moderate hypertension (diastolic, 90 to 114 mm Hg) and the results of randomized therapeutic intervention and its side effects.

33. KANNEL WB, CASTELLI WP, McNAMARA PM, et al: Role of blood pressure in the development of congestive heart failure. The Framingham Study. *N Engl J Med* 287:781-787, 1972

More than 5000 men and women (representative population) followed for 16 years. Six times more congestive heart failure developed in the hypertension group than in normals; this was a lethal complication, with only 50% of those affected surviving 5 years.

34. COHN JN (editor): Symposium on hypertension. Hypertension—1974. *Arch Intern Med* 133:911-1066, 1974

A number of journals have recently presented symposia on hypertension (*Am J Cardiol* 32:497-606, 1973; *Am J Med* 55:261-414, 1973). This symposium gives a balanced view beginning with pathophysiology and progressing through rational therapy.

Myocardial Disease

35. HENRY WL, CLARK CE, EPSTEIN SE: Asymmetric septal hypertrophy. Echocardiographic identification of the pathognomonic abnormality of IHSS. *Circulation* 47:225-233, 1973

A classic article on the "essential ingredient" of hypertrophic subaortic stenosis and its identification by echocardiography.

36. GOODWIN JF: Treatment of the cardiomyopathies. *Am J Cardiol* 32:341-351, 1973

A review article that examines the old and new forms of therapy for cardiomyopathy. Hypertrophic cardiomyopathy is emphasized and many difficult problems in its management discussed.

37. ADELMAN AG, WIGLE ED, RANGANATHAN N, et al: The clinical course in muscular subaortic stenosis. A retrospective and prospective study of 60 hemodynamically proved cases. *Ann Intern Med* 77:515-525, 1972

A retrospective and prospective study of 60 patients show in that the disease is usually progressive. Results of both medical and surgical therapy are analyzed. The benefits of propranolol HCl therapy were mainly symptomatic and were short-lived.

38. TAJIK AL, GIULIANI ER, WEIDMAN WH, et al: Idiopathic hypertrophic subaortic stenosis. Long-term surgical follow-up. *Am J Cardiol* 34:815-822, 1974

Although surgery is of value in some patients, it has a significant mortality and morbidity and may not alter the natural history of the disease.

Pericarditis

39. NIARCHOS AP, MCKENDRICK CS: Prognosis of pericarditis after acute myocardial infarction. *Br Heart J* 35:49-54, 1973

Contains valuable information about the characteristics, clinical course, and prognosis of that subset of patients who develop pericarditis after myocardial infarction.

40. HOROWITZ MS, SCHULTZ CS, STINSON EB, et al: Sensitivity and specificity of echocardiographic diagnosis of pericardial effusion. *Circulation* 50:239-247, 1974

Echocardiographic technique and criteria for evaluating pericardial effusion; data for quantitating the size of the effusion.

41. MARTIN RG, RUCKDESCHEL JC, CHANG P, et al: Radiation related pericarditis. *Am J Cardiol* 35:216-220, 1975

A study of the incidence, time-course, and natural history of pericardial effusion in patients receiving upper mantle cobalt radiation for Hodgkin's disease.

Pulmonary Heart Disease

42. SASAHARA AA: Current problems in pulmonary embolism.

Introduction. *Prog Cardiovasc Dis* 17:161-165, 1974

A complete review of signs, symptoms, and laboratory findings in massive and submassive pulmonary embolization, with data based on a nationwide study. Unanswered questions and problems are discussed.

43. STEIN PD, DALEN JE, MCINTYRE KM, et al: The electrocardiogram in acute pulmonary embolism. *Prog Cardiovasc Dis* 17:247-257, 1975

A complete review of the electrocardiographic changes associated with pulmonary embolism, and a clarification of frequency and specificity of certain common findings.

44. THOMAS AJ: Chronic pulmonary heart disease (editorial). *Br Heart J* 34:653-657, 1972

A good clinically oriented review of chronic right heart disease and its relation to all forms of pulmonary disease. A practical synthesis of clinical features.

45. STUARD ID, HEUSINKVELD RS, MOSS AJ: Microangiopathic hemolytic anemia and thrombocytopenia in primary pulmonary hypertension. *N Engl J Med* 287:869-870, 1972

Hematologic complications of primary pulmonary hypertension; incidence and possible management.

46. SALERNI R, LEON DF, SHAVER JA, et al: Pulmonary hypertension in CRST syndrome (scleroderma) (abstract). *Circulation* 48 (suppl 4):134, 1973

Pulmonary hypertension occurs in a number of CRST patients, with a varied natural history. Of the two pulmonary lesions, pulmonary fibrosis and pulmonary vascular obliteration, usually only the latter is present with pulmonary hypertension.

47. SINGH I, CHOLAN IS: Blood coagulation changes at high altitude predisposing to pulmonary hypertension. *Br Heart J* 34:611-617, 1972

Important insight into causes of pulmonary hypertension and the relatively accelerated course of patients with primary pulmonary hypertension who live at high altitudes.

48. ATLEE WE JR: Talc and cornstarch emboli in eyes of drug abusers. *JAMA* 219:49-51, 1972

This paper makes reference to the multiple effects of talc and cornstarch injected intravenously on the pulmonary and systemic vascular beds. Pulmonary hypertension is a serious complication in drug abusers.

49. SAUTTER RD, MYERS WO, RAY JF III, et al: Pulmonary embolectomy: review and current status. *Prog Cardiovasc Dis* 17:371-389, 1975

A reevaluation of surgical treatment of massive pulmonary embolus; suggestions for practical approach to making decisions regarding such surgery.

50. CRANE C: Venous interruption for pulmonary embolism: present status. *Prog Cardiovasc Dis* 17:329-333, 1975

An extensive review of the factors involved in decision-making about venous interruption, the complications, the anticipated results, and the failures.

Valvular Heart Disease

51. POMERANCE A: Pathology and valvular heart disease (editorial). *Br Heart J* 34:437-443, 1972

Traditional concepts of valvular disease have been modified over the past three decades; this article summarizes many of the changes from the viewpoint of the pathologist.

52. POMERANCE A: Pathogenesis of aortic stenosis and its relation to age. *Br Heart J* 34:569-574, 1972

The relation between age and pathology in isolated aortic stenosis considered in young middle age, the seventh and eighth decades, and the very elderly.

53. BULKLEY BH, ROBERTS WC: Ankylosing spondylitis and aortic regurgitation. Description of the characteristic cardiovascular lesion from study of eight necropsy patients. *Circulation* 48:1014-1027, 1973

Concerns the cardiovascular lesion of ankylosing spondylitis, contrasted with those of syphilis, Marfan's syndrome, and rheumatoid arthritis.

54. BULKLEY BH, ROBERTS WC: Dilatation of the mitral anulus. A rare cause of mitral regurgitation. *Am J Med* 59:457-463, 1975
Study of the intact mitral valve at necropsy suggests that dilatation of the mitral anulus is a rare cause of mitral regurgitation.
55. ROBERTS WC, PERLOFF JK: Mitral valvular disease. A clinicopathologic survey of the conditions causing the mitral valve to function abnormally. *Ann Intern Med* 77: 939-975, 1972
An exceptional, thorough clinicopathologic survey of conditions involving the mitral anulus, leaflets, chordae tendineae, papillary muscles, and left ventricular free wall that cause mitral obstruction, regurgitation, or both; 98 references.
56. SELZER A, COHN KE: Natural history of mitral stenosis: a review. *Circulation* 45:878-890, 1972
A thoughtful, complete review emphasizing the clinical, hemodynamic, and pathologic evolution of mitral stenosis with an attempt to formulate a rational therapeutic approach to this disease.
57. BARLOW JB, POPCOCK WA: The problem of nonejection systolic clicks and associated mitral systolic murmurs: emphasis on the billowing mitral leaflet syndrome. *Am Heart J* 90:636-655, 1975
A conservative appraisal of what is known and unknown about the mitral valve prolapse syndrome (billowing mitral leaflet syndrome).
58. CRILEY JM, KISSEL GL: Prolapse of the mitral valve—the click and late systolic murmur syndrome, in *Progress in Cardiology*, edited by YU PN, GOODWIN JF. Philadelphia, Lea & Febiger, 1975, pp. 23-36
The mitral valve prolapse syndrome: emphasis on classification, mechanism of click, and murmur production, with an exposition of diagnostic techniques.
59. LITTLER WA, EPSTEIN EJ, COULSHED N: Acute mitral regurgitation resulting from ruptured or elongated chordae tendineae. Auscultatory and phonocardiographic findings. *Q J Med* 42:87-110, 1973
Complete, methodical study of patients with acute mitral regurgitation resulting from ruptured chordae—a clinically definable lesion to be differentiated within the spectrum of mitral regurgitation with important therapeutic considerations.
60. GOLDSCHLAGER N, PFEIFER J, COHN K, et al: The natural history of aortic regurgitation. A clinical and hemodynamic study. *Am J Med* 54:577-588, 1973
Definition of natural history precedes rational therapeutic decisions; a prospective and retrospective analysis of clinical and hemodynamic data in 150 patients, with an analysis of the therapeutic implications.
61. REDDY PS, LEON DF, KRISHNASWAMI V, et al: Syndrome of acute aortic regurgitation. *Am Heart Assoc Monograph* No. 46:166-174, 1975
Sudden development of severe aortic regurgitation is accompanied by signs and symptoms due to exceptionally high ventricular diastolic pressures (the response of the normal ventricle to sudden severe regurgitation). Pathophysiologic basis for physical findings.
62. WOOLEY CF: The spectrum of tricuspid regurgitation. *Am Heart Assoc Monograph* No. 46:139-148, 1975
Tricuspid regurgitation, traditionally considered as organic or functional, is reclassified in terms of the pathophysiologic mechanisms that alter function of the tricuspid valve complex.
63. PLUTH JR, MCGOON DC: Current status of heart valve replacement. *Mod Concepts Cardiovasc Dis* 43:65-70, 1974
A succinct and authoritative appraisal of the gradually changing surgical approach to valve replacement.
64. SELZER A: Cardiac valve replacement: an unanswered question. *Am J Cardiol* 37:322-324, 1976

Does valve replacement affect the natural history of valvular heart disease in a positive or negative way? An editorial attempt to consider valve replacement in its proper perspective.

Electrocardiography

65. HARRISON DC, FITZGERALD JW, WINKLE RA: Ambulatory electrocardiography for diagnosis and treatment of cardiac arrhythmias. *N Engl J Med* 294:373-380, 1976
A comprehensive overview of this subject; 53 references.
66. HARRISON DC (guest editor): Ambulatory electrocardiographic monitoring—a symposium. *Heart Lung* 4:537-572, 1975
A five-part symposium, covering techniques and indications, in particular applications to evaluation of coronary heart disease.
67. THE COMMITTEE ON EXERCISE, AMERICAN HEART ASSOCIATION: *Exercise Testing and Training of Apparently Healthy Individuals: A Handbook for Physicians*. New York, American Heart Association, 1972
A 40-page handbook, covering both areas cited above, with details of testing protocols and interpretation.
68. BRUCE RA: Values and limitations of exercise electrocardiography (editorial). *Circulation* 50:1-3, 1974
A thoughtful and timely editorial by a leading authority in the field.
69. ROTMAN M, WAGNER GS, WALLACE AG: Bradyarrhythmias in acute myocardial infarction. *Circulation* 45:703-722, 1972
A detailed review of pathogenesis, hemodynamic consequences, and management of this clinical problem.
70. SCHEINMAN MM, THORBURN D, ABBOTT JA: Use of atropine in patients with acute myocardial infarction and sinus bradycardia. *Circulation* 52:627-633, 1975
Report of 56 patients, with review of the literature on this controversial area.
71. HUDSON LD, KURT TL, PETTY TL, et al: Arrhythmias associated with acute respiratory failure in patients with chronic airway obstruction. *Chest* 63:661-665, 1973
Report of this problem in 70 patients studied carefully in a respiratory intensive care unit.
72. LAWSON NW, BUTLER GH III, RAY CT: Alkalosis and cardiac arrhythmias. *Anesth Analg (Cleve)* 52:951-964, 1973
Analysis of another facet of extracardiac causes of arrhythmias, exemplified in nine patients studied in a surgical intensive care unit.

Noninvasive Diagnostic Methods

73. SHAVER JA, NADOLNY RA, O'TOOLE JD, et al: Sound pressure correlates of the second heart sound. An intracardiac sound study. *Circulation* 49:316-325, 1974
A reevaluation of the mechanism of splitting of the second heart sound. The impedance characteristics of the normal or abnormal pulmonary vascular bed have prime importance in determining the width of splitting of the second heart sound.
74. FORTUIN NJ, CRAIGE E: Echocardiographic studies on the genesis of mitral diastolic murmurs. *Br Heart J* 35:75-81, 1973
Evidence that the Austin Flint murmur and other diastolic rumbling murmurs of mitral regurgitation, mitral stenosis (presystolic murmur), and left-to-right shunts are caused by the turbulence of blood flowing from atrium to ventricle across a closing of the mitral orifice.
75. O'TOOLE JD, REDDY SP, CURTISS EJ, et al: The contribution of tricuspid valve closure to the first heart sound. An intracardiac micromanometer study. *Circulation* 53:752-758, 1976
Demonstrates the presence of an audible and recordable tricuspid component of the first heart sound, settling an

age-old argument as to whether or not tricuspid closure is always silent.

76. FEIGENBAUM H: Clinical application of echocardiography.

Prog Cardiovasc Dis 14:531-558, 1972

This overview by Dr. Feigenbaum surveys the classical applications of echocardiography in clinical cardiology.

Book Reviews

Catastrophic Diseases: Who Decides What? By Jay Katz and Alexander Morgan Capron. 294 pages. Russell Sage Foundation, New York, 1975. Price, \$10.00.

JAY KATZ (psychiatrist, psychoanalyst, and professor of law and psychiatry in Yale School of Law) and Alexander Morgan Capron (professor of law in the University of Pennsylvania School of Law) have collaborated before on a mammoth work, when they produced the compendium, *Experimentation with Human Beings*. This time they have given us a much shorter book, but quality has not been sacrificed. Their topic this time is catastrophic diseases. A catastrophic disease is defined as a disease "for which some form of *unusually expensive* treatment must be available which can *sustain life* for a period of time."

Their book begins with a very brief account of the goals and values presupposed in a policy to treat catastrophic diseases, as well as a brief account of the state of the arts of hemodialysis and organ transplantation. This is followed by a substantial account of the interaction of physicians and patients, research subjects and experimenters, professional groups, public bodies, and involved individuals. This second part is the most successful. In particular, it provides a very helpful analysis of informed consent as an ongoing process of contracting, negotiating, and recontracting a partnership between the physician or investigator, and the patient-subject. Here, also, questions of the definition of death and the right to refuse life-sustaining treatment receive a thorough examination, including reference to many legal issues that should be of interest to physicians concerned with these questions. The book closes with a treatment of the stages in decision-making and aims at establishing positions and policies concerning catastrophic disease. The reader here is presented with an interesting if not always persuasive portrayal of how public supervision of human research and the allocation of resources for therapy should be developed.

What is offered will not satisfy everyone, though, for there are places where one hopes for a more detailed account of the ethical issues and principles that the authors presuppose in their analyses. Moreover, in an attempt to deal with all the component issues and considerations of catastrophic illness, the analyses are at times weak, even unconvincing. Much more detail is needed, including, for instance, an account of why ethical considerations might lead one to mistrust relatively instantaneous decisions by donors to give organs. Do people, after careful reflection throughout a life of interest in others, develop a character of giving which might explain such phenomena? Whatever the answer, more detailed analysis is needed.

This book is a very readable and at the same time scholarly "psychosocial and legal analysis of the problems posed by hemodialysis and organ transplantation." It has an easy-going, pleasant style that is at times almost journalistic. This impression is fortified by numerous excerpts from the history of organ transplantation. But the book

also systematically divides issues along a careful, at times even scholastic, plan, thus giving a resolution of issues into subissues and sub-subissues. In addition, there are very extensive footnotes which include not only references but detained elaborations and the inclusion of materials likely to be of interest to the reader with a more specialized scholarly interest in social, legal, or ethical issues bearing on hemodialysis and organ transplantation. Persons with only a passing interest in the subject, as well as those who have already read extensively, should profit from this book. (H. TRISTRAM ENGELHARDT, JR. PH.D., M.D.; University of Texas Medical Branch; Galveston, Texas)

Teaching of Chronic Illness and Aging. Volume 2. Edited by Duncan W. Clark and T. Franklin Williams. 132 pages. Washington, D.C., U.S. Government Printing Office, 1976. Distributed by National Institutes of Health, Bethesda, Maryland. Price, \$5.85.

FROM A CONFERENCE sponsored by the John E. Fogarty International Center for Advanced Study in the Health Sciences has come this readable and highly informative monograph. In his introductory statement, Dr. T. Franklin Williams sets the stage by pointing out that teaching chronic illness can only be done well where service is done well, not necessarily in a medical center. But more important, he issues that challenge we all must heed: it is education rather than regulation that will improve patient care.

Each chapter is followed by active discussion. Dr. Last tells how teaching is done in Ottawa and evokes Dr. Reader to point out that students are incredibly naive on entering medical school.

Dr. Kane suggests nursing homes as a setting for teaching but not if students go into them as if they are Nader's raiders.

The use of the chronic disease hospital for teaching is outlined by Dr. Williams and his group in Rochester, New York. The success of this program is due in part to the appointment of the director of the hospital to the Dean's Advisory Board of the medical school.

Ian Lawson, writing with his usual flair, advocates teaching in home-care settings so that the student can appreciate the true "milieu extérieur". He believes that the political administrative apparatus in this country is counterincentive to good patient care.

Sidney Katz presents a model for teaching comprehensive health care, which in itself is interesting but seems to have been received coolly by the discussants.

Dr. Michael Dacso still feels that the field of rehabilitation is too vague in its scope and aims and urges an interdisciplinary review team to tighten things up.

In the final chapter, Dr. Pless discusses the teaching of care for chronic illness in childhood and adolescence. Because this may be a more stimulating experience to students that exposure to the chronically ill adult, it should not be overlooked.

Endocrinology and Metabolism: An Annotated Bibliography of Recent Literature

References to Journal Articles and Other Papers

ENDOCRINOLOGY AND METABOLISM COMMITTEE*, MEDICAL KNOWLEDGE
SELF-ASSESSMENT PROGRAM IV, AMERICAN COLLEGE OF PHYSICIANS;
Philadelphia, Pennsylvania

THIS BIBLIOGRAPHY includes references to 101 recently published journal papers and similar sources that represent recent developments important in the concepts and practice of internal medicine. It has been compiled as a part of the work of the Endocrinology and Metabolism Committee toward the preparation of the *Medical Knowledge Self-Assessment Program IV Syllabus*.

In preparing this bibliography, the committee reviewed MEDLINE† bibliographic printouts of journal articles published since the beginning of 1972 and also drew on their own files. Papers were selected with a view to their likely availability in libraries of hospitals and other clinical institutions in the United States and Canada. This is the reason for the listing only of papers in English and for the preponderant representation of American journals and books.

Hypothalamus and Pituitary Gland

1. BESSER GM: Hypothalamus as an endocrine organ. *Br Med J* 3:560-564, 613-615, 1974

Two short articles that review hypothalamic-pituitary interrelations, the clinical effects of those hypothalamic hormones that have been identified and synthesized, and the possible therapeutic uses of hypothalamic hormones.

2. MARTIN JB: Neural regulation of growth hormone secretion. *N Engl J Med* 288:1384-1393, 1973

The regulation of growth hormone secretion is a complex process. This review discusses the neural and physiologic regulation of growth hormone and details the many disorders that result in altered growth hormone secretion.

3. VANWYK JJ, UNDERWOOD LE: Relation between growth hormone and somatomedin. *Annu Rev Med* 26:427-441, 1975

Somatomedins mediate many of the physiologic actions of growth hormone. Information concerning their properties, actions, and role in abnormal growth is accumulating rapidly.

4. SNYDER PJ, JACOBS LS, RABELLO MM, et al: Diagnostic value of thyrotrophin-releasing hormone in pituitary and

* William D. Odell, M.D., F.A.C.P., Chairman; Stefan S. Fajans, M.D., F.A.C.P.; Richard Horton, M.D.; David N. Orth, M.D., F.A.C.P.; John Potts, M.D.; Paul O. Rudnick, M.D., F.A.C.P.; and Robert Utiger, M.D.

† Computer literature-file of the National Library of Medicine, Bethesda, Maryland, consulted through the Regional Medical Library service Library of the College of Physicians of Philadelphia, with the technical assistance of Ruthanne Henner.

hypothalamic diseases. Assessment of thyrotrophin and prolactin secretion in 100 patients. *Ann Intern Med* 81:751-757, 1974

Thyrotrophin-releasing hormone was the first hypothalamic hormone available for clinical testing. This study shows its utility in uncovering abnormalities of TSH and prolactin secretion in patients with pituitary and hypothalamic disorders and compares the results with tests of growth hormone and ACTH secretion.

5. NEELON FA, GOREE JA, LEBOVITZ HE: The primary empty sella: clinical and radiographic characteristics and endocrine function. *Medicine* 52:73-92, 1973

Empty sella is increasingly recognized as an important cause of enlargement of the sella turcica. This review thoroughly describes the radiographic features and well documents the fact that most such patients have normal pituitary function.

6. MCGUFFIN WL JR, SHERMAN BM, ROTH J, et al: Acromegaly and cardiovascular disorders. A prospective study. *Ann Intern Med* 81:11-18, 1974

No evidence that acromegaly was associated with an increased incidence of cardiovascular disease could be shown in this prospective study of 57 patients.

7. TOLIS G, SOMMA M, VAN CAMPENHOUT J, et al: Prolactin secretion in sixty-five patients with galactorrhea. *Am J Obstet Gynecol* 118:91-101, 1974

A study of prolactin secretion in a large group of patients

A collective reprint of this series of annotated bibliographies and the book and journal list published in the March 1976 issue as "A Library for Internists II" will be available after the publication of the last bibliography in November. Orders are now being received. The sale price for a single copy is \$3.00. The rates for 10 or more copies shipped to a single address are: \$2.75 each for 10 to 49 copies; \$2.50 each for 50 to 99 copies; \$2.00 each for 100 or more copies. Orders must be prepaid with checks in U.S. dollars, or with money orders, made out to the American College of Physicians and addressed to the Publications Manager, American College of Physicians, 4200 Pine Street, Philadelphia, PA 19104 (U.S.A.).

with galactorrhea that shows the diversity of causes of galactorrhea and patterns of prolactin secretion in them.

8. SHELLINE GE: Treatment of nonfunctioning chromophobe adenomas of the pituitary. *Am J Roentgenol Radium Ther Nucl Med* 120:553-561, 1974

External radiation and surgical therapy remain the standard forms of therapy for pituitary tumors. This study compares the effects of these forms of therapy on the visual abnormalities in 140 patients.

9. DEL POZO E, VARGA L, WYSS H, et al: Clinical and hormonal response to bromocriptin (CB-154) in the galactorrhea syndromes. *J Clin Endocrinol Metab* 39:18-26, 1974

10. SACHDEV Y, GOMEZ-PAN A, TUNBRIDGE WMG, et al: Bromocriptine therapy in acromegaly. *Lancet* 2:1164-1168, 1975

Two papers showing that pharmacologic control of hyperprolactinemia (and galactorrhea) and excessive growth hormone secretion (and acromegaly) can be achieved with bromocryptine.

Neurohypophysis

11. ROBERTSON GL: Vasopressin in osmotic regulation in man. *Annu Rev Med* 25:315-322, 1974

Vasopressin measurements have clarified the role of this hormone in the regulation of water balance and different forms of diabetes insipidus.

12. BARTTER FC: The syndrome of inappropriate secretion of antidiuretic hormone (SIADH). *DM* (November): 1-47, 1973

A thorough review of the pathophysiology, clinical manifestations, causes, and therapy of this interesting and occasionally life-threatening syndrome.

(Additional references concerning vasopressin action and abnormalities in sodium and water metabolism may be found in the section on Sodium, Water and Potassium Metabolism in NEPHROLOGY COMMITTEE, MKSAP IV, AMERICAN COLLEGE OF PHYSICIANS: Nephrology: an annotated bibliography. *Ann Intern Med* 84:104-109, 1976)

Glucocorticoids

13. BURKE CW, DOYLE FH, JOPLIN GF, et al: Cushing's disease. Treatment by pituitary implantation of radioactive gold or yttrium seeds. *Q J Med* 42:693-714, 1973

Results in a large series of patients with Cushing's disease with yttrium stereotaxic implantation of the pituitary (after pituitary biopsy). Shows a surprisingly high prevalence of adenomas as well as an excellent outcome for treatment.

14. HARSOULIS P, MARSHALL JC, KUKU SF, et al: Combined test for assessment of anterior pituitary function. *Br Med J* 4:326-329, 1973

The reference paper describing testing of all anterior pituitary hormone in a single test—by mixing hypothalamic-stimulating hormones and simultaneously doing perturbation tests. A practical and commonly used approach.

15. KRIEGER DT, AMOROSA L, LINICK F: Cyproheptadine-induced remission of Cushing's disease. *N Engl J Med* 293:893-896, 1975

Results of treatment of three patients with Cushing's disease with the serotonin antagonist, cyproheptadine.

Renin and Mineralocorticoids

16. LARAGH JH, PICKERING G, GUYTON AG, et al: Symposium on hypertension: mechanism and management. *Am J Med* 52:565-678, 1972

Most of the issue is devoted to various aspects of renin and aldosterone and various hypertensive disorders.

17. HORTON R: Aldosterone: review of its physiology and diagnostic aspects of primary aldosteronism. *Metabolism* 22:1525-1545, 1973

A review of aldosterone physiology and primary aldosteronism.

18. BIGLIERI EG, STOCKIGT JR, SCHAMBELAN M: Adrenal mineralocorticoids causing hypertension. *Am J Med* 52:623-632, 1972

A succinct review of the various causes of mineralocorticoid excess along with a diagnostic and therapeutic approach to each.

19. CONN JW, COHEN EL, LUCAS CP, et al: Primary reninism. *Arch Intern Med* 130:682-696, 1972

A patient with juxtaglomerular tumor producing renin is described in whom the diagnosis was made preoperatively; the four previously reported patients are reviewed.

20. GILL JR JR, FROLICH JC, BOWDEN RE, et al: Bartter's syndrome: a disorder characterized by high urinary prostaglandins and a dependence of hyperreninemia on prostaglandin synthesis. *Am J Med* 61:43-51, 1976

A review of current knowledge on the pathogenesis of Bartter's syndrome.

Adrenal Medulla Thyroid Gland

21. ODELL WD, BRAY GA, DEQUATTRO V, et al: Catecholamines—a symposium. *Calif Med* 117(3):32-62, 1972

A thorough review of the biochemistry and physiology of catecholamines as well as the diagnosis and treatment of diseases of the catecholamine endocrine system.

22. LARSEN PR: Tests of thyroid function. *Med Clin North Am* 59:1063-1074, 1975

Methods for the evaluation of thyroid function have become simpler and more reliable in recent years. This review outlines these procedures and their interpretation and pitfalls.

23. CARLSON HE, HERSHMAN JM: The hypothalamic-pituitary-thyroid axis. *Med Clin North Am* 59:1045-1053, 1975

Serum TSH determinations have become an important tool for the diagnosis of thyroid disease, as well as greatly improving understanding of the physiology of the hypothalamic-pituitary-thyroid axis.

24. BROWN J, CHOPRA IJ, CORNELL JS, et al: Thyroid physiology in health and disease. *Ann Intern Med* 81:68-81, 1974

This UCLA conference report includes sections dealing with TSH secretion and biochemistry, the relative roles of thyroxine and triiodothyronine in thyroid economy, the pathogenesis of Graves' disease, and thyroglobulin secretion.

25. DAVID PJ, DAVIS FB: Hyperthyroidism in patients over the age of 60 years. *Medicine* 53:161-181, 1974

Hyperthyroidism in elderly subjects often has clinical manifestations differing from those in younger patients. These include a lower frequency of goiter and, frequently, anorexia, marked weight loss, and cardiovascular symptoms as predominating symptoms.

26. HAMILTON CR JR, MALOOF F: Unusual types of hyperthyroidism. *Medicine* 52:195-215, 1973

Graves' disease or nodular goiter is the most common cause of hyperthyroidism, which may also be due to iodide or thyroid hormone administration, TSH hypersecretion, thyroiditis, and thyroid carcinoma. These unusual causes of hyperthyroidism are considered in detail.

27. MACKIN JF, CANARY JJ, PITTMAN CS: Thyroid storm and its management. *N Engl J Med* 291:1396-1398, 1974
Thyroid storm is a life-threatening medical emergency, manifested by severe hyperthyroidism and usually an accompanying severe illness. Aggressive therapy is required and should be started without delay for biochemical diagnostic confirmation.
28. WARTOFSKY L: Low remission after therapy for Graves disease. Possible relation of dietary iodine with antithyroid results. *JAMA* 226:1083-1088, 1973
The frequency of remission of hyperthyroidism due to Graves' disease is declining. This could be related to increasing dietary iodine intake. These results, if confirmed, indicate long-term antithyroid drug therapy for hyperthyroidism may not be justified.
29. SAFA AM, SCHUMACHER OP, RODRIGUEZ-ANTUNEZ A: Long-term follow-up results in children and adolescents treated with radioactive iodine (¹³¹I) for hyperthyroidism. *N Engl J Med* 292:167-170, 1975
Should ¹³¹I be used in the treatment of hyperthyroidism in children and young adults? Hypothyroidism was the only treatment complication in 87 patients treated between ages 2 and 18 years. No reproductive abnormalities were found.
30. BLUM M: Myxedema coma. *Am J Med Sci* 264:432-443, 1972
A comprehensive review of the pathophysiology, recognition, and therapy of myxedema coma.
31. STOCK JM, SURKS MI, OPPENHEIMER JH: Replacement dosage of L-thyroxine in hypothyroidism. A re-evaluation. *N Engl J Med* 290:529-533, 1974
Doses of 0.1 to 0.2 mg of L-thyroxine were adequate; and the serum thyroxine, triiodothyronine, and TSH concentrations were normal. These data add evidence that most of the serum triiodothyronine is derived from peripheral conversion of thyroxine and that the past recommendation that patients receive 0.2 to 0.4 mg of L-thyroxine daily is incorrect.
32. VAGENAKIS AG, BRAVERMAN LE, AZIZI F, et al: Recovery of pituitary thyrotropic function after withdrawal of prolonged thyroid suppression therapy. *N Engl J Med* 293:681-684, 1975
Thyroid hormone therapy suppresses endogenous pituitary and thyroid secretion. Recovery of normal pituitary and thyroid secretion after withdrawal of exogenous thyroid requires about 4 to 6 weeks, and the limiting factor is recovery of TSH secretion.
33. BLUM M, GOLDMAN AB, HERSKOVIC A, et al: Clinical applications of thyroid echography. *N Engl J Med* 287:1164-1169, 1972
Echography is useful to determine if hypofunctioning ("cold") thyroid nodules are solid or cystic, in which case aspiration may provide adequate therapy. Echographic and pathologic findings correlated well in 122 patients whose thyroid nodules were excised.
34. HAMBURGER JJ: Solitary autonomously functioning thyroid lesions. *Am J Med* 58:740-748, 1975
Some solitary nodules of the thyroid are hyperfunctioning, and function of the remaining thyroid tissue is suppressed. In 164 patients such nodules were benign, and the clinical course is uncomplicated in most patients.
35. REFETOFF S, HARRISON J, KARANFILSKI BT, et al: Continuing occurrence of thyroid carcinoma after irradiation to the neck in infancy and childhood. *N Engl J Med* 292:171-175, 1975
Head and neck irradiation, widely used for various disorders in infants in the past, is now known to result in thyroid cancer after a 10-to-30-year latency. In 100 such patients, thyroid nodules were common, and 7 had thyroid cancer.

Multiple Endocrine Neoplasia Syndrome

36. BLOCK MB, ROBERTS JP, KADAIK RG, et al: Multiple endocrine adenomatosis type IIb. Diagnosis and treatment. *JAMA* 234:710-714, 1975
A detailed description of type IIb, a clinically recognizable hereditary disorder characterized by Marfan-like habitus, peculiar characteristic facies, mucosal neuromas on tongue, buccal mucosa and eyelids, and associated with multifocal medullary carcinoma and pheochromocytoma.
37. FOX PS, HOFMANN JW, DECOSSE JJ, et al: The influence of total gastrectomy on survival in malignant Zollinger-Ellison tumors. *Ann Surg* 180:558-566, 1974
An excellent clinical study showing the efficacy of total gastrectomy in treatment of malignant Z-E syndrome.

Ectopic Hormone Syndromes

38. GEWIRTZ G, YALOW RS: Ectopic ACTH production in carcinoma of the lung. *J Clin Invest* 53:1022-1032, 1974
This study describes the production of big-ACTH (probably pro-ACTH) by patients with carcinoma of the lung who do not have the clinical recognizable ectopic ACTH syndrome.
39. ODELL WD, WOLFSEN A: Ectopic hormone secretion by tumors, in *Cancer: A Comprehensive Treatise*, edited by BECKER FF. New York, Plenum Press, 1975, pp. 81-98
A review of ectopic hormone or peptide production by neoplasms.

Female Reproduction

40. COLLABORATIVE GROUP FOR THE STUDY OF STROKE IN YOUNG WOMEN: Oral contraception and increased risk of cerebral ischemia or thrombosis. *N Engl J Med* 288:871-878, 1973
A well-controlled study evaluating the incidence of stroke and cerebral ischemia in young women receiving and not receiving oral contraceptives.
41. HARDY J: Transsphenoidal surgery of hypersecreting pituitary tumors, in *Diagnosis and Treatment of Pituitary Tumors*, edited by KOHLER PO, ROSS GT. New York, Excerpta Medica, 1973, pp. 179-194
This chapter describes the results of microtranssphenoidal surgery for localized intrasellar tumors. In this largest series reported to date, the results of selective adenectomy are encouraging. The entire book is an excellent review of pituitary tumor treatment.
42. HERBST AL, SCULLY RF, ROBBOY SJ: Effects of maternal DES ingestion on the female genital tract. *Hosp Pract* 10(10):51-57, 1975
An excellent review of 250 cases of vaginal or cervical carcinoma among female patients 15 to 30 years of age and born of mothers receiving stilbesterol therapy during their pregnancy.
43. MARX JL: Estrogen drugs: do they increase the risk of cancer? *Science* 191:838-840, 882, 1976
A succinct analysis of the possible relations of estrogen therapy to cancer of the endometrium, cancer of the breast, and cancer of the vagina.
44. MACDONALD PC, SIITERI PK: The relationship between the extraglandular production of estrone and the occurrence of endometrial neoplasia. *Gynecol Oncol* 2:259-263, 1974
Experimental data are presented showing the extraglandular production of estrone from adrenal androgens; these data are related to the risk of developing endometrial carcinoma.

45. MANN JI, INMAN WHW: Oral contraceptives and death from myocardial infarction. *Br Med J* 2:245-248, 1975
A retrospective analysis of 63 women with myocardial infarction and 189 control patients describing a synergistic influence of oral contraceptive use, cigarette smoking, treated hypertension, diabetes, pre-eclamptic toxemia, obesity, and age on the incidence of infarction.
46. MANN JI, VESSEY MP, THOROGOOD M, et al: Myocardial infarction in young women with special reference to oral contraceptive practice. *Br Med J* 2:241-245, 1975
See above.
47. SWERDLOFF RS, ODELL WD, BRAY G, et al: Complications of oral contraceptive agents—a symposium. *West J Med* 122:20-49, 1975
A review of the complications of estrogen therapy.
48. ODELL WD, MOLITCH ME: The pharmacology of contraceptive agents. *Annu Rev Pharmacol* 14:413-434, 1974
A review of how oral contraceptives work and of the complications possibly associated with their use.
49. SMITH DC, PRENTICE R, THOMPSON DJ, et al: Association of exogenous estrogen and endometrial carcinoma. *N Engl J Med* 293:1164-1167, 1975
Results of a retrospective study of endometrial carcinoma in Seattle showing increased risk in estrogen-treated and obese women.

Androgens in Women and Hirsutism

50. KIRSCHNER MA, ZUCKER JR, JESPERSEN D: Idiopathic hirsutism—an ovarian abnormality. *N Engl J Med* 294: 637-640, 1976
In this investigation of 42 women with unexplained adult-onset hirsutism, dexamethasone suppression of androgen production does not distinguish an ovarian source from an adrenal source; the source of excess androgen production in idiopathic hirsutism is the ovary.
51. CORREA DE OLIVERA R, NOVAES LP, LIMA MB, et al: A new treatment for hirsutism. *Ann Intern Med* 83:817-819, 1975
Results of treatment of 24 hirsute women with 100 mg of depo-medroxyprogesterone acetate intramuscularly each 15 days, were striking. Knowledge of side effects of the long-term therapy is important in consideration of this therapy. The theoretical implications of LH-FSH suppression by medroxyprogesterone are interesting.
52. VANDE WIELE RL: Treatment of infertility due to ovulatory failure. *Hosp Pract* 7(October):119-126, 1972
An excellent review of methods available for treatment of infertility caused by decreased or absent ovulation.

Testis

53. LIPSHULTZ L, CAMINOS-TORRES R, GREENSPAN CS, et al: Testicular function after orchiopexy for unilaterally undescended testis. *N Engl J Med* 295:15, 1976
In 29 men (21 to 35 years old) who had undergone orchiopexy for unilateral undescended testis at 4 to 12 years of age, mean sperm density was one third of normal, and follicle-stimulating hormone rise response to gonadotropin-releasing hormone was double normal. This is evidence for bilateral testicular abnormalities.
54. CHOPRA JJ: Gonadal steroids and gonadotrophins in hyperthyroidism. *Med Clin North Am* 59:1109-1121, 1975
Men with thyrotoxicosis have an elevated free and total estradiol and elevated LH and FSH concentrations. These return to normal in parallel with restoration of normal thyroid function.
55. WILSON JD: Recent studies on the mechanism of action of testosterone. *New Engl J Med* 287:1284-1291, 1972

A succinct presentation of the physiology and biochemistry of testosterone action.

56. YOSHIMOTO Y, MORIDERA K, IMURA H: Restoration of normal pituitary gonadotropin reserve by administration of luteinizing-hormone-releasing hormone in patients with hypogonadotropic hypogonadism. *N Engl J Med* 292: 242-245, 1975
Initial testing with gonadotrophin-releasing hormone (GnRH) of patients with hypothalamic causes of hypogonadism may result in little or no LH or FSH release. With repeated stimulation, normal responses usually develop. Thus, the test does not reliably separate pituitary causes from hypothalamic causes.
57. ODELL WD, SWERDLOFF RS: Male hypogonadism. *West J Med* 124:446-475, 1976
A thorough review of reproductive physiology in men. The physical examination and laboratory findings expected in hypogonadism and a sensible and complete classification of all causes of hypogonadism in men are presented.
58. WALSH PC, MADDEN JD, HARROD MJ, et al: Familial incomplete male pseudohermaphroditism, type 2. *N Engl J Med* 291:944-949, 1974
A succinct review of one subclass of male hypogonadal disorders related to inadequate testosterone action. The classification scheme and pathophysiology offered by these authors makes order out of previous chaos in comprehending these disorders.

Diabetes Mellitus

59. BLOCK MB, ROSENFELD RI, MAKO ME, et al: Sequential changes in beta-cell function in insulin-treated diabetic patients assessed by C-peptide immunoreactivity. *N Engl J Med* 288:1144-1148, 1973
Use of the connecting peptide RIA in assessing pancreatic beta cell function in insulin dependent diabetic patients. This paper describes changes in beta cell secretion which correlate to exogenous insulin requirements.
60. MAUER SM, STEFFES MW, SUTHERLAND DER, et al: Studies of the rate of regression of the glomerular lesions in diabetic rats treated with pancreatic islet transplantation. *Diabetes* 24:280-285, 1975
An important study describing regression of glomerular lesions in diabetic rats in which carbohydrate control mechanisms were returned to normal by pancreatic islet transplantation.
61. RASKIN P, FUJITA Y, UNGER RH: Effect of insulin-glucose infusions on plasma glucagon levels in fasting diabetic and nondiabetics. *J Clin Invest* 56:1132-1138, 1975
An investigation into the role of glucagon in diabetes mellitus. These studies show that hyperglucagonemia of diabetes may be secondary to hyperglycemia. Treatment with insulin infusions returned glucagon concentrations to normal.
62. RASKIN P, MARKS JF, BURNS H JR, et al: Capillary basement membrane width in diabetic children. *Am J Med* 58:365-372, 1975
Sixty percent of children (in contrast to adults) with diabetes mellitus do not have capillary basement membrane thickening; thus this change cannot be the cause of diabetes mellitus as has been suggested. Basement membrane thickening is not related to duration of hyperglycemia.
63. SOLER NG, WRIGHT AD, FITZGERALD MG, et al: Comparative study of different insulin regimens in management of diabetic ketoacidosis. *Lancet* 2:1221-1224, 1975
Low-dose frequent insulin injections are compared to conventional therapy. This study shows that insulin re-

sistance is not present in diabetic ketoacidosis and suggests alternative approaches to therapy.

64. TAKAZAKURA E, NAKAMOTO Y, HAYAKAWA H, et al: Onset and progression of diabetic glomerulosclerosis. A prospective study based on serial renal biopsies. *Diabetes* 24: 1-9, 1975

In this study 162 patients underwent renal biopsy; 23 volunteered to undergo serial biopsies. The presence or absence of glomerulosclerosis and the progression of glomerulosclerosis and vascular disease showed a strong correlation with degree of diabetes control.

65. TATTERSALL RB, FAJANS SS: A difference between the inheritance of classical juvenile-onset and maturity-onset type diabetes of young people. *Diabetes* 24:44-53, 1975
A description of different inheritance patterns in insulin-dependent (juvenile onset type) and non-insulin-dependent (maturity onset type) of diabetes mellitus.

66. UNGER RH, ORCI L: The essential role of glucagon in the pathogenesis of diabetes mellitus. *Lancet* 1:14-16, 1975

A review of the postulated role of glucagon in pathophysiology of diabetes mellitus.

Obesity

67. MANN GV: The influence of obesity on health. *N Engl J Med* 291:178-185, 226-232, 1974

Excellent and comprehensive review article. It includes discussions on the etiology of obesity, its metabolic lesions, and genetics; regulation of feeding behavior, experimental obesity in humans, measurement of adiposity with emphasis on Body Mass Index, cardiovascular complications, and management.

68. BRAY GA, DAVIDSON MB, DRENICK EJ: Obesity: a serious symptom. *Ann Intern Med* 77:779-795, 1972

Good review article.

69. VAN ITALLIE TB, YANG M, HASHIM SA: Dietary approaches to obesity: metabolic and appetitive considerations, in *Recent Advances in Obesity Research*, edited by HOWARD A. London, Newman Publishers, Ltd., 1975, p. 256

Historical review of weight reduction diets. Initial larger weight loss with total starvation and with 800-Kcal ketogenic diet than with 800-Kcal mixed diets is due to greater water loss. Protein catabolism with hypocaloric diets is not as significant in obese patients as it is in starving lean people: N equilibrium can be achieved at an intake of 12 g of N and 50% of calories required for maintaining weight. Ketosis by providing fuel for brain function may indirectly spare protein. Most dietary manipulations are attempts to reduce either the caloric cost of eating or the discomfort of dieting.

70. GARATTINI S, BIZZI A, DEGAETANO G, et al: Recent advances in the pharmacology of anorectic agents. *See Reference* 69, p. 354

Good review of anorectic drugs. They interact with neurotransmitters in given structures of the brain. Largest group are derivatives of the phenylethylamines. Amphetamine type inhibits noradrenaline and causes CNS stimulation. Phenfluoramine acts by inhibiting tryptaminergic mechanisms. It has a depressing CNS effect. It also affects metabolism of energy substrates.

71. BRAY GA: Metabolic effects of corpulence. *See Reference* 69, p. 56

Review of metabolic changes in obesity: impairment of GTT, hyperinsulinemia, increased FFA, and cholesterol. Mechanisms for development of abnormalities: increased carbohydrate and amino acid intake, decreased insulin receptors, peripheral insensitivity to insulin.

72. SOLOW C, SILBERFARB PM, SWIFT K: Psychosocial effects

of intestinal bypass surgery for severe obesity. *N Engl J Med* 290:300-304, 1974

Objective evaluation of psychosocial changes induced by bypass surgery. Noted improvement in mood, self esteem, body image, depression. Changes were directly proportional to the magnitude of weight loss. Relative unresponsiveness to internal cues associated with satiety was reversible with weight loss.

73. ALEXANDER JK, PETERSON KL: Cardiovascular effects of weight reduction. *Circulation* 45:310-318, 1972

Weight reduction causes improvement in O₂ uptake and cardiac output, and a decrease in left ventricular stroke volume and stroke work, but there is persistence of left ventricular dysfunction, possibly decreased ventricular compliance.

74. ROCHESTER DF, ENSON Y: Current concepts in the pathogenesis of the obesity-hypoventilation syndrome. *Am J Med* 57:402-420, 1974

Obese subjects may be either "not hypercapnic" or have "OHS". Although both groups have decreased lung and chest wall compliance, patients with OHS have more severe reduction in compliance and, in addition, inspiratory muscle weakness and pulmonary arterial vasoconstriction and hypertension.

75. PRINTEN KJ, MASON EE: Gastric surgery for relief of morbid obesity. *Arch Surg* 106:428-431, 1973

Obese subjects have increased incidence of cholesterol gall stones. Bile is more lithogenic due to supersaturation with cholesterol relative to phospholipids and bile acids.

76. DRENICK EJ, BRICKMAN AS, GOLD EM: Dissociation of the obesity-hyperinsulinism relationship following dietary restriction and hyperalimentation. *Am J Clin Nutr* 25: 746-755, 1972

A study of the natural history of changes in insulin and glucose tolerance in obesity gives a plausible explanation for the observed changes in insulin and glucose levels with weight reduction in obese subjects.

77. BRAY GA, CAMPFIELD LA: Metabolic factors in the control of energy stores. *Metabolism* 24:99-117, 1975

Interesting review of possible mechanisms controlling energy storage. Concept of negative feedback regulation of adipose tissue mass.

78. HEIMBURGER SL, STEIGER E, LOGERFO P, et al: Reversal of severe fatty hepatic infiltration after intestinal bypass for morbid obesity by calorie free amino acid infusion. *Am J Surg* 129:229-235, 1975

Hepatic fatty infiltration can be massive and lead to failure. It is probably caused by protein depletion associated with adequate or high carbohydrate intake. It was reversed by withholding caloric intake and infusing two litres of a 4.5% amino acid solution daily for 12 to 21 days.

79. KEYS A, ARAVANIS C, BLACKBURN H, et al: Coronary heart disease: overweight and obesity as risk factors. *Ann Intern Med* 77:15-26, 1972

There is excessive incidence of coronary heart disease with overweight and obesity but no significant relation between documented myocardial infarctions and obesity. Association is mainly through atherogenic risk factors.

Hyperlipoproteinemia

80. LEVY RI, FREDRICKSON DS, SHULMAN R, et al: Dietary and drug treatment of primary hyperlipoproteinemia. *Ann Intern Med* 77:267-294, 1972

An important general summary of the classification and therapy of the hyperlipidemic states; should be reviewed in the original (138 references).

81. MOTULSKY AG: Current concepts in genetics. The genetic

hyperlipidemias. *N Engl J Med* 294:823-827, 1976

This article proposes a reclassification of those hyperlipidemias of genetic origin, which includes: familial hypercholesterolemia; familial hypertriglyceridemia; familial combined hyperlipidemia ("multiple lipoprotein type" hyperlipidemia); polygenic hyperlipidemias; lipoprotein lipase deficiency (type I lipoprotein type); broad beta disease (type III hyperlipidemia). (Studies of large kindreds are needed to confirm genetic mechanisms.)

82. MORGANROTH J, LEVY RI, FREDRICKSON DS: The biochemical, clinical, and genetic features of type III hyperlipoproteinemia. *Ann Intern Med* 82:158-174, 1975
Revised criteria for diagnosis of type III are given, based on the ratio of very-low-density lipoprotein (VLDL) cholesterol to total serum triglycerides. Palmar xanthomas were present in 50% of 49 patients; 70% achieved normal lipids by diet alone (29 references).
83. GOLDSTEIN JL, BROWN MS: Hyperlipidemia in coronary heart disease: a biochemical genetic approach. *J Lab Clin Med* 85:15-25, 1975
Low-density lipoprotein (LDL) receptor is absent from membranes of homozygous type IIa patients. Thus, circulating LDL cannot bind, and the usual suppression of CoA reductase activity, and cellular cholesterol synthesis does not occur. This has important therapeutic implications (21 references).
84. BARTER PJ, CONNOR WE, SPECTOR AA, et al: Lowering of serum cholesterol and triglyceride by para-aminosalicylic acid in hyperlipoproteinemia. *Ann Intern Med* 81:619-624, 1974
Para-aminosalicylic acid (PAS-C®; pascorbic), at 8 g/day, was effective and well tolerated in reducing serum cholesterol (by 18%) and triglycerides (by 27%) during 6 months in type IIa and IIb patients. Cost is approximately 60% that of cholestyramine (18 references).
85. GLUECK CJ, FALLAT RW, TSANG R: Hypercholesterolemia and hypertriglyceridemia in children. *Am J Dis Child* 128:569-577, 1974
Authors state the prevalence of hypercholesterolemia in childhood; stress the importance of early detection and control of hypercholesterolemia in children; and describe appropriate therapy for hypercholesterolemia, hypertriglyceridemia, and combined hyperlipidemia (89 references).
86. STEIN EA, PETTIFOR J, MIENY C, et al: Portacaval shunt in four patients with homozygous hypercholesterolaemia. *Lancet* 1:832-835, 1975
In a few patients with homozygous type IIa hypercholesterolemia, portacaval shunt (done after usual therapeutic measures failed) produced significant reductions in serum cholesterol, reduced size of xanthomas, and reduced angina (8 references).
87. GINSBERG H, OLEFSKY J, FARQUHAR JW, et al: Moderate ethanol ingestion and plasma triglyceride levels. *Ann Intern Med* 80:143-149, 1974
Moderate amounts of ethanol (87 g = 7½ oz. whiskey/day) were given to six normal and nine type IV subjects for 7 days. Triglycerides rose by 17% in normals and 47% in hyperglyceridemic patients (39 references).
88. BLACKET RB, WOODHILL JM, LEELARTHAEPIN B, et al: Type-IV hyperlipidaemia and weight-gain after maturity. *Lancet* 2:517-520, 1975
Modest weight-reduction (20 lbs., 11.2%) resulted in 147 mg/dl (46%, $P < 0.0001$) decline in fasting triglycerides in 20 type IV men. This was sustained during 10 months. Maturity-onset weight gain contributes to the appearance of type IV hyperlipoproteinemia (30 references).
89. MOLITCH ME, OILL P, ODELL WD: Massive hyperlipidemia during estrogen therapy. *JAMA* 227:522-525, 1974
Estrogens, and estrogen-containing contraceptives can elevate serum cholesterol, and especially triglycerides, by increased hepatic synthesis of very-low-density lipoproteins (VLDL). Hyperlipidemic patients should probably not receive estrogens. Women taking oral contraceptives should have lipids checked periodically (41 references).
90. CASARETTO A, MARCHIORO TL, GOLDSMITH R, et al: Hyperlipidemia after successful renal transplantation. *Lancet* 1:481-484, 1974
Serum triglycerides and cholesterol were both elevated in 41 patients who underwent successful renal transplantation. Postheparin lipase was normal. Authors propose that the hyperinsulinemia often seen in these patients probably plays a role, and that corticosteroids (for immunosuppression) also contributed (26 references).
91. OLEFSKY JM, FARQUHAR JW, REAVEN GM: Reappraisal of the role of insulin in hypertriglyceridemia. *Am J Med* 57:551-560, 1974
Evidence is presented that insulin plays an important role in the genesis of endogenous hypertriglyceridemia, by stimulating very-low-density lipoprotein (VLDL) triglyceride production. (Hyperinsulinemia is not the sole cause, in that insulinoma patients usually do not have hypertriglyceridemia.) (51 references).
92. SANTEN RJ, WILLIS PW, FAJANS SS: Atherosclerosis in diabetes mellitus. *Arch Intern Med* 130:833-843, 1972
Diabetic patients with atherosclerosis had higher triglyceride and cholesterol levels, insulin/glucose ratios, and frequency of pre-beta lipoproteinemia than diabetics without atherosclerosis, or controls. The differences were not explainable by obesity, or level of carbohydrate intake (78 references).
93. BUCKINGHAM RB, BOLE GG, BASSETT DR: Polyarthritides associated with type IV hyperlipoproteinemia. *Arch Intern Med* 135:286-290, 1975
A new type of polyarthritides is described, occurring in association with type IV hyperlipoproteinemia. Disease was asymmetrical, oligoarticular. Metaphyseal and epiphyseal cysts occurred in some patients. Joint symptoms improved with dietary correction of hyperlipidemia, in some (15 references).
94. CORONARY DRUG PROJECT RESEARCH GROUP: Clofibrate and niacin in coronary heart disease. *JAMA* 231:360-381, 1975
Clofibrate, nicotinic acid, or placebo were administered to 854, 853, and 2115 men respectively, aged 30 to 64, in a secondary prevention study. Neither drug produced significantly improved five year mortality. Effect of these drugs in primary prevention is still uncertain (30 references).

Calcium and Phosphate Metabolism

95. AVIOLI LV: The therapeutic approach to hypoparathyroidism. *Am J Med* 57:34-42, 1974
A thorough discussion of the rationale and details of the treatment of hypoparathyroidism.
96. DEFTOS LJ, NEER RM: Medical management of the hypercalcemia of malignancy. *Annu Rev Med* 25:323-331, 1974
Hypercalcemia is a serious, often life-threatening finding in patients with metastatic and nonmetastatic malignancies. This article reviews the treatment regimens available and gives their effectiveness.
97. EISENBERG H, PALLOTTA J, SHERWOOD LM: Selective arteriography, venography and venous hormone assay in diagnosis and localization of parathyroid lesions. *Am J Med* 56:810-820, 1974
Expert selective venous catheterization with parathormone

assay can localize parathyroid adenomas or hyperplasia. Although this approach is not usually recommended before first surgery, it is helpful in repeat parathyroid surgery.

98. FRASER D, KOOH SW, KIND HP, et al: Pathogenesis of hereditary vitamin-D-dependent rickets. An inborn error of vitamin D metabolism involving defective conversion of 25-hydroxyvitamin D to 1α , 25-dihydroxyvitamin D. *N Engl J Med* 289:817-822, 1973

Vitamin D is synthesized in the skin or taken in the diet. Subsequently it undergoes two hydroxylation steps in liver and kidney tissue. The defect in one hydroxylation of vitamin D is believed to be the basis of hereditary vitamin D-resistant rickets.

99. PARFITT AM: The interactions of thiazide diuretics with parathyroid hormone and vitamin D. Studies in patients

with hypoparathyroidism. *J Clin Invest* 51:1879-1888, 1972

The hows and whys of thiazide-produced hypercalcemia.

100. POTTS JT JR: Disorders of parathyroid glands, in *Harrison's Principles of Internal Medicine*, 7th ed., edited by WINTROBE MM, THORN GW, ADAMS RD, et al. New York, McGraw-Hill Book Co., 1974, pp. 1951-1962

A good textbook review of the disorders of bone and bone mineral metabolism.

101. SINGER FR: Treatment of Paget's disease of bone. *Postgrad Med* 57(3):117-120, 1975

Paget's disease is currently treatable using calcitonin. In selected symptomatic patients this treatment is indicated. Dr. Singer reviews whom to treat and what results are observed.

Book Reviews

The Logic of Medicine. By Edmond A. Murphy. 353 pages. The Johns Hopkins University Press, Baltimore and London, 1976. Price, \$16.50.

BEYOND POSSESSING HUMANITARIANISM, a full complement of medical knowledge, and the ability to apply these qualities with precision, complete physicians should be able to recognize rhetoric in the scientific writings of others and to eschew it in their own. They should also be exacting, able to form appropriate generalizations from available facts, and, above all perhaps, emotionally well disciplined. So, at least, claims the author of this fine dissertation on the anatomy of medical logic—and, after reading this book, it is well-nigh impossible to disagree with him.

To avoid being misled by faulty conclusions, physicians must be aware of the methods of science. Dr. Murphy dissects methodology in successive chapters dealing with words and symbols, abstractions and generalizations, definitions and tautologies, cause, classification, disease, and the diagnostic process. Nowhere else to my knowledge will the reader find a clearer chapter on the practical aspects of resolution, precision, and accuracy. In later sections, Dr. Murphy describes how superstitious notions may influence medical practice, how proof may be logically derived from accurate observations, and how bias may invade any type of research. There are also excellent treatments of the phenomena of bimodality and confounding.

This is neither a book on biostatistics nor scientific facts. It is rather a book in the best tradition of works dealing with ideas, written by a teacher of great intellect and experience in an effort to show students and physicians some of the interpretive pitfalls that may await them upon reading a medical journal or attending a scientific meeting. There are some places where the text becomes rather heavy and others where mathematical assumptions appear too great for the average reader, but, all in all, Dr. Murphy has given us a good and valuable book, and a guide to clear thinking. (HARVEY J. DWORKEN, M.D., Case Western Reserve University; Cleveland, Ohio)

The Sanctity of Social Life: Physicians' Treatment of Critically Ill Patients. By Diana Crane. 285 pages. Russell Sage Foundation, New York, 1975. Price, \$13.50.

DESPITE THE OUTPOURING of opinion in latter years on

death and dying, this is the first objective examination of what physicians think they do and what they actually do with the desperately sick. Diana Crane, a sociologist, in reporting her findings and recommendations, is consistently uncritical of our motives and decisions even when we are inconsistent by and among ourselves. Possessing the means to maintain biologic life, physicians conscientiously depart from the rule to do so at any cost and without exception. The author's prime interest is to discover operational criteria of our decisions to do less than we could to prolong survival of persons with grossly limited consciousness and significant physical disability and persons with a short and hopeless outlook for survival and who are distressing to themselves and others.

The author's hypothesis is that physicians evaluate the hopelessly ill patient partly in terms of "the extent to which he is capable of interacting with others," or "his capacity to perform his social role." This is in contrast to a criterion of social value or usefulness. An anencephalic infant is perceived by pediatricians as having no capacity to interact; a dying but fully conscious young man in great discomfort may be seen by his physicians as having little "life space," or role-fulfilling ability. What variables partially determine the physicians decision? A number are considered: prestige of hospitals, religious affiliation, socioeconomic status of the patient, specialty of physician, level of training. Nothing startling emerges.

Physicians may be interested in how a sociologist goes about her business, and this report is largely free of the recondite jargon often a feature of the papers in her calling. The basic instrument is a questionnaire deliberately patterned after a specialty board examination, that is, multiple choice, ordering, synthetic clinical situations. A preliminary set of interviews showed that physicians have trouble thinking and expressing themselves in the abstract. We have a "clinical mentality," hence the anecdotal technique and discussion. Verification of the questionnaire is attempted by examination of clinical records. Although the author has earnestly tried to point up the defects of her method, I am bothered by pretensions of objectivity in a text interspersed with conjecture where data do not support a conclusion.

We are invited in the discussion to be concerned that the