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Cover: In eight prospective studies of the effects of smoking, researchers have accumulated 17 million person-years of observation, including 330,000 deaths. The authors of the Surgeon General's 1982 report on smoking examined this evidence and concluded that cigarette smoking is a major cause of cancer mortality in the United States. An overview of "The Health Consequences of Smoking: Cancer" appears on pages 318-324.

Bureau of Radiological Health's Division of Biological Effects Has Been Reorganized

■ The Bureau of Radiological Health's Division of Biological Effects has been reorganized into a new structure that better reflects the process by which the Bureau carries out its mission. Along with the reorganization, the Division is shifting its primary emphasis to risk assessment. Four new branches oriented along radiation lines will carry out the Division's responsibilities. The Electromagnetic Radiation Branch will be responsible for radiofrequency, very high frequency, ultra-high frequency, microwave, and magnetic field radiation; the Ionizing Radiation and Statistics Branch will be responsible for all aspects of ionizing radiation and will provide statistical support to the Division and other Bureau components; the Light Radiation Branch will be responsible for ultraviolet, visible, and infrared radiation; and the Acoustic Radiation Branch will be responsible for all frequencies in the acoustic energy spectrum, including infrasonic, sonic, and ultrasonic radiation.

The four branches will replace the former Experimental Studies Branch, Epidemiologic Studies Branch, and Standard Support Staff. According to the new functional statements, each of the four branches will (a) collect, maintain, review, evaluate, and provide up-to-date scientific information relevant to the health effects associated with exposure to radiation; (b) identify the human health effects associated with exposure to radiation, identify areas where knowledge is incomplete, and attempt to increase understanding by both stimulating and conducting the research necessary to fill these gaps; (c) develop and provide risk assessments for, and participate with, other Bureau components in regulatory, educational, and use control activities; and (d) interact with national and international public and private organizations to disseminate risk information, promote radiation protection, and communicate common goals.

For additional information on the reorganization or the staffing of the new branches, contact Dr. Kenneth Krell, Bureau of Radiological Health (HF-100), 5600 Fishers Lane, Rockville, Md. 20857, telephone 301: 443-2356.

education notes

International symposium on "Frontiers of Medicine: Implications for the Future." The department of continuing education in health sciences of the University of California Los Angeles Extension will present "Frontiers in Medicine: Implications for the Future," October 1-2, 1982, in Beverly Hills. The meeting is being held in conjunction with the First International Scientific Symposium of the American Longevity Association and is co-sponsored by the UCLA Schools of Medicine, Public Health, and Nursing, the Harbor-UCLA Medical Center, and the Los Angeles County Medical Association.

The latest developments in heart disease, cancer, diabetes, and aging will be examined at this symposium, as well as the most promising leads to the solution of these disorders. Featured guest lecturers will include Michael E. DeBakey, MD, chancellor, Baylor College of Medicine; Baruch S. Blumberg, MD, PhD, Nobel Laureate, associate director for clinical research, Institute for Cancer Research, Fox Chase Cancer Center; Andrew V. Schally, PhD, Nobel Laureate, professor, Tulane University, chief, Endocrine Laboratory, Veterans Administration Medical Center; and U. S. von Euler, MD, Nobel Laureate, professor of physiology, Karolinska Institute, Stockholm. The program director is Robert J. Morin, MD, professor of pathology, Harbor-UCLA Medical Center, and president of the American Longevity Association.

Among the topics to be discussed will be nutritional lowering of cholesterol levels, lipoproteins, the reversal of atherosclerosis in humans, new medical and surgical therapy for coronary heart disease, artificial hearts, newer concepts in diagnosis and treatment of diabetes, cell senescence, immunological aspects of aging, free radicals, DNA repair, nutri-

tional and hormonal retardation of aging, mechanisms of carcinogenesis, and newer means of cancer prevention, detection, and therapy.

The program is accredited for 16 hours of Category I of the American Medical Association Physician's Recognition Award, for the California Medical Association Certificate in Continuing Medical Education, and for 16 contact hours by the California State Board of Registered Nursing.

The fee is \$225 for physicians; \$175 for physicians-in-training and postdoctoral research fellows, nurses, and other health professionals; and \$25 for documented students (limited to first 100 enrollments). For additional information write Health Sciences, UCLA Extension, P.O. Box 24901, Los Angeles, Calif. 90024 or call 213: 825-8421.

Pulmonary function testing. A course in pulmonary function testing will be conducted in St. Paul, Minn., September 15-17, 1982. It is sponsored by the Midwest Center for Occupational Health and Safety, a NIOSH (National Institute of Occupational Safety and Health)-sponsored educational resource center, and the St. Paul-Ramsey Medical Center. It is designed for occupational health nurses, physicians, health technicians, and other personnel involved in the performance and interpretation of screening spirometry. The program will include didactic lectures and hands-on training in all facets of spirometry and practicum and a written certification test. American Medical Association category 1 credit and nursing contact hours will be awarded. Tuition is \$350. For further information contact Ruth K. McIntyre, Director, Continuing Education, Midwest Center for Occupational Health and Safety, 640 Jackson St., St. Paul, Minn. 55101, telephone 612: 221-3992.

publications

FEDERAL

U.S. Government Printing Office, Superintendent of Documents, Washington, D.C. 20402. Orders should be accompanied by check or money order and should be identified by title and GPO stock No.

A Primer on Theory and Operation of Linear Accelerators in Radiation Therapy. *DHHS Publication No. (FDA 82-8181).* \$4.25. GPO stock No. 016-015-00204-7.

Duration of Marriage Before Divorce, United States, Vital and Health Statistics, Series 21, No. 38. *DHHS Publication No. (PHS) 81-1916.* \$2.75. GPO stock No. 017-022-00753-3.

Mortality from Diseases Associated with Smoking: United States, 1960-77. Vital and Health Statistics, Series 20, No. 17. January 1982, 78 pages; \$4.75. GPO Stock No. 017-022-00739-8.

Protecting Human Subjects. First Annual Report on the Adequacy and Uniformity of Federal Rules and Their Implementation. December 1981. 271 pages; \$6.50. GPO Stock No. 040-000-00452-1.

Health, United States, 1981. *DHHS Publication No. (PHS) 82-1232.* \$8.50. GPO Stock No. 017-022-00-772-8.

Data Systems of the National Center for Health Statistics. *Vital and Health Statistics, Series 1, No. 16.* *DHHS Publication No. (PHS) 82-1318.* December 1981, 37 pages. \$3. GPO Stock No. 017-022-00771-1.

Radiation Safety in Nuclear Medicine: A Practical Guide. Edited by Vincent J. Sodd. *DHHS Publication No. (FDA) 82-8180.* \$4.75. GPO Stock No. 015-00203-9.

National Technical Information Services (NTIS), 5258 Port Royal Rd., Springfield, Va. 22161. Full payment must accompany orders, which should be identified by title and PB number.

11th Annual National Conference on Radiation Control—Radiations: Minimizing Exposure: Optimizing Use, May 6-10, 1979, Oklahoma City, Oklahoma. *DHHS Publication No. (FDA) 81-8054.* Order No. PB 82-102575. \$31.50; \$4 microfiche.

Radiation Safety in Nuclear Medicine: A Practical Guide. *DHHS Publication No. (FDA) 82-8180.* November 1981. Order No. PB 82 159963. \$13.50; \$4 microfiche.

A Primer on Theory and Application of Linear Accelerators in Radiation Therapy. *DHHS Publication No. (FDA) 82-8181.* December 1981. Order No. PB 82 162306. \$9; \$6 microfiche.

Sourcebook of Educational Materials for Dental Radiology. *DHHS Publication No. (FDA) 82-8182.* February 1982. Order No. PB 82 165580. \$9; \$4 microfiche.

Performance Evaluation of RF Electric and Magnetic Field Measuring Instruments (FDA 82-8158). Accession No. PB 82-195009. \$7.50; \$4 microfiche.

Bureau of Radiological Health Publications Subject Index. *DHHS Publication No. (FDA) 82-8070.* 1982. Order No. PB 82-160250. \$6; \$4 microfiche.

Bureau of Radiological Health Publications Subject Index. *DHHS Publication No. (FDA) 82-8070.* Order No. PB 82-160250. \$6; \$4 microfiche.

CSU-FDA Collaborative Radiological Health Laboratory Annual Report 1980—Health Effects of Prenatal and Postnatal Whole-Body Exposure to Ionizing Radiation in the Beagle Dog. *DHHS Publication No. (FDA) 82-8042.* Order No. PB 82-177817. \$13.50; \$4 microfiche.

Report on Classroom Use of Sodium Vapor Lamps. *DHHS Publication No. (FDA) 82-8183.* Order PB No. 82-169517. \$6; \$4 microfiche.

Sourcebook for Educational Materials and Dental Radiology. *DHHS Publication No. (FDA) 82-8182.* Order PB No. 82-165580. \$9; \$4 microfiche.

National Center for Health Services Research (NCHSR), PHS, Rm. 7-44, Center Building, 3700 East-West Highway, Hyattsville, Md. 20782.

NCHSR National Health Care Expenditures Study. 5 parts. Who are the Underserved? Charges and Sources of Payment for Dental Visits with Separate Charges. Who Initiates Visits to a Physician? Waiting Times in Different Medical Settings: Appointment Waits and Office Waits. Employer and Employee Expenditures for Private Health Insurance.

Animal Resources. A Research Resources Directory. *DHHS Publication No. (NIH) 82-1431.* December 1981, 50 pages. Copies available from Research Resources Information Center, 1776 East Jefferson St., Rockville, Md. 20852.

NIMH Public Inquiries, Room 11A-21, 5600 Fishers Lane, Rockville, Md. 20857 (single copies only).

Plain Talk About Mutual Help Groups: People Who Know Just How You Feel. *DHHS Publication No. (ADM) 81-1138.*

Computers in Mental Health: A Review and Annotated Bibliography. *DHHS Publication No. (ADM) 81-1090.*

Science Reports: Biofeedback—Issues in Treatment Assessment. *DHHS Publication No. (ADM) 81-1032.*

Health Care Financing Program Statistics: The Medicare and Medicaid Data Book, 1981. *DHHS Publication No. (HCFA) 03128.* April 1982, 150 pages. **ORD Publications, Rm. 1E9 Oak Meadows Building, 6340 Security Blvd., Baltimore, Md. 21207.**

NON-FEDERAL

Institute for Health Planning, 702 North Blackhawk Ave., Madison, Wis. 53705.

The Effect of Fuel Cost Increases on Hospital Costs. 28 pages, \$3.50.

Hospital Trustee Strategies for Promoting Total Energy Management. 16 pages, \$3.

Competition in Health Care. Basic and Supplemental Readings. March 1982. 27 pages, \$3.50.

Short History of Health Planning. By James R. Kimmey. March 1982, 6 pages; \$2.

Health Planning: A Marketing Challenge. By Thomas A. DeChant and Barbara W. Greenman. March 1982. 43 pages, \$3.50.

Regression Analysis: Technical Notes. By Carol V. Getts. March 1982, 12 pages; \$2.

These copies are provided to client agencies free of charge.

International Universities Press, 315 5th Ave., New York, N.Y. 10016. Zero to Three. Edited by Sally Provence. Published 4 times per year. \$10 per volume.

Clinical Infant Reports. First volume; Psychopathology and Adaptation in Infancy and Early Childhood: Principles of Clinical Diagnosis and Preventive Intervention. By Stanley I. Greenspan. 1981, 263 pages; \$22.50 plus \$2.75 handling (ISBN 0-8236-5660-8).

Raven Press, 1140 Avenue of the Americas, New York, N.Y. 10036.

Target Organ Toxicology Series published:

Cardiovascular Toxicology. By Ethard W. Van Stee. \$45.

Developmental Toxicology. By Carole A. Kimmel and Judy Buelke-Sam. \$38.

Nervous System Toxicology. By Clifford L. Mitchell. \$44.

Toxicology of the Kidney. By Jerry B. Hook. \$32.

W. H. Freeman and Company, 660 Market St., San Francisco, Calif. 94104. Full amount must accompany orders plus \$1.50 for postage and handling charge. California residents please add appropriate tax.

The DNA Story. A Documentary History of Gene Cloning. 1981. 605 pages, 122 illustrations; hardbound \$24.95.

Darwin to DNA, Molecules to Humanity. Spring 1982. 491 pages, 105 illustrations; hardbound \$28.95, paper \$14.95.

The Politics of Contraception. Birth Control in the Year 2001. 1981. 280 pages, 66 illustrations; hardbound \$19.95, paper \$9.95.

A Primer of Drug Action. 1981. 306 pages, 61 illustrations; hardbound \$19.50, paper \$9.50.

First Aid in the Home. A chart. Single free copies from Council on Family Health, 633 3rd Ave., New York, N.Y. 10017. Additional copies 30 cents each.

Eastern Europe: Pronatalist Policies and Private Behavior. By Henry P. David. Vol. 36, No. 6, February 1982. 48 pages; \$8. Population Reference Bureau, Inc., Circulation Dept., P.O. Box 35012, Washington, D.C. 20013.

Male Rape. A casebook of sexual aggressions. Edited by Anthony M. Scacco, Jr. March 1982. 326 pages; \$27.50 cloth cover, \$9.50 paper cover. AMS Press Inc., 56 East 13th St., New York, NY 10003.

Some Interim Results from a Controlled Trial of Cost Sharing in Health Insurance. By Joseph P. Newhouse, et al. January 1982. 61 pages; \$7.50 (ISBN 0-8330-0373-9). Rand Corporation, 1700 Main St., Santa Monica, Calif. 90406. Full amount must accompany orders.

WomanCare, BackCare and HeartCare. (The American Medical Association). \$12.95 each volume. Random House, 201 East 50th St., New York, N.Y. 10022.

Nursing and the American Health Care Delivery System. By Joellen B. W. Hawkins and Loretta P. Higgins. April 1982, 192 pages; \$8.95 (ISBN 0-913292-33-8). The Tiresias Press, Inc., 116 Pinehurst Ave., New York, N.Y. 10033.

Management of Rural Primary Care—Concepts and Cases. Edited by Gerald E. Bisbee, Jr. March 1982, 310 pages. Free single copies, two or more copies—\$8 (ISBN 0-87914-057-7). Director of Communications, The Hospital Research and Educational Trust, 840 North Lake Shore Dr., Chicago, Ill. 60611.

Reference Sources in Social Work: An Annotated Bibliography. By James H. Conrad. 207 pages, \$15 (ISBN 0-8108-1503-6). Scarecrow Press, Inc., 52 Liberty St., P.O. Box 656, Metuchen, N.J. 08840.

Your Health and Aging. \$7 single copies. Division of Gerontology, New York University Medical Center, 550 First Ave., New York, N.Y. 10016.

From Accommodation to Self-Determination: Nursing's Role in the Development of Health Care Policy. Publication code No. G-153. 1982. 85 pages; \$5. Publications Orders, American Nurses' Association, 2420 Pershing Road, Kansas City, Mo. 64108.

American Public Health Association, 1015 15th St., N.W., Washington, D.C. 20005. \$5 per copy or \$15 for entire series. Full payment must accompany orders.

Health Care Financing in Developing Countries. By Dieter K. Zschock.

Planning Pharmaceuticals for Primary Care: The Supply and Utilization of Drugs in the Third World. By Oscar Gish and L. Lee Fuller.

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Public Affairs Committee, Inc., 381 Park Ave. South, New York, N.Y. 10006.

The Psychotherapies Today. By Elizabeth Ogg. Public Affairs Pamphlet No. 596. August 1981, 28 pages; 50 cents.

Compulsive Gambling. By Harry Mill. Public Affairs Pamphlet No. 598. October 1981, 28 pages; 50 cents.

Vitality and Aging. Implications of the Rectangular Curve. 1981. 172 pages, 36 illustrations, hardbound \$17.50, paper \$8.75.

Cultural Perspectives on Child Development. 1981. 315 pages, 27 illustrations; hardbound \$19.95, paper \$10.95.

Development in Infancy. Spring 1982. 304 pages, 150 illustrations; hardbound \$20, paper \$9.95.

Research Centers Directory: Geographical and Executive Arrangement. *Seventh Edition*. Edited by Robert C. Thomas and James A. Ruffner. 1982. 1,139 pages \$160 (ISBN 0-8103-0456-2). Gale Research Co., Book Tower, Detroit, Mich. 48226.

Population Reference Bureau, Inc., Circulation Dept., Box 35012, Washington, D.C. 20013.

The World Fertility Survey: Charting Global Childbearing. *Population Bulletin*, Vol. 37, No. 1, March 1982, 55 pages; \$3 (ISSN 0032-468X).

Knowledge and Use of Contraception in Twenty Developing Countries. By Maria Mamlouk. *Reports on the World Fertility Survey* No. 3. 44 pages. Free single copies plus \$1 for handling and postage charge.

Pan American Health Organization, Pan American Sanitary Bureau, Regional Office of the World Health Organization, 525 23rd St., N.W., Washington, D.C. 20037.

Helping Disabled Persons at Home: A New Approach to Rehabilitation. 1981, 26 pages; \$3, Scientific Publication No. 411.

Immunization and Primary Health Care: Problems and Solutions. 1981, 40 pages; \$6, Scientific Publication No. 417.

Health for All by the Year 2000. Plan of Action for the Implementation of Regional Strategies. 1982, 96 pages; \$8 (ISBN 92 75 17179 3). (Published in Spanish also.)

World Health Organization (WHO), Publications Center, U.S.A., 49 Sheridan Ave., Albany, N.Y. 12210.

Vaccination Certificate Requirements for International Travel and Health Advice. 1982. 70 pages; 12 Swiss francs (ISBN 92 4 158006 2). (Also available in French.) (Arabic and Spanish editions in preparation.)

Education and Training in Occupational Health, Safety, and Ergonomics. WHO Technical Report Series No. 663. 1981, 48 pages; 3 Swiss francs (ISBN 92 4 120663 2). (French and Spanish editions in preparation.)

Health Effects of Combined Exposures in the Work Environment. WHO Technical Report Series No. 662. 1981, 75 pages; 4 Swiss francs (ISBN 92 4 120662 4). (French and Spanish editions in preparation.)

Intestinal Protozoan and Helminthic Infections. WHO Technical Report Series

No. 666. 1981, 151 pages; 10 Swiss francs (ISBN 92 4 120666 7). (French and Spanish editions in preparation.)

Tuberculosis Control. WHO Technical Reports Series No. 671. 1982, 26 pages; 3 Swiss francs (ISBN 92 4 120671 3). (Arabic, French, and Spanish editions are in preparation.)

Laboratory Decontamination and Destruction of Aflatoxins, B₂, G₁, and G₂ in Laboratory Wastes. Edited by M. Castegnaro et al. IARC Scientific Publication No. 37. 1980, 59 pages, 18 Swiss francs, US \$10. International Agency for Research on Cancer, Lyon. Distributed for IARC by WHO.

Environmental Carcinogens—Selected Methods of Analysis. Volume 4. "Some Aromatic Amines and Azo Dyes in the General and Industrial Environment. Edited by H. Egan et al. IARC Scientific Publication No. 40. 1981, 347 pages, 60 Swiss francs, US \$30. International Agency for Research on Cancer, Lyons. Distributed for IARC by WHO.

Chemotherapy of Malaria. Edited by L. J. Bruce-Chwatt. 1981. 262 pages; 30 Swiss francs (ISBN 92 4 170027 7). (French and Spanish editions in preparation.)

Economic Research Into Health Service Growth. EURO Reports and Studies No. 52. 1981, 39 pages; 4 Swiss francs (ISBN 92 890 1218 8).

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