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Edward N. Brandt, Jr., MD, PhD
Assistant Secretary for Health

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early 1950s. The most rapidly growing age group will be persons 85 years and older; their numbers will increase from 2.1 million in 1987 to 13 million in 2003.

Health expenditures will rise rapidly between 1981 and 1990, the researchers predict, totalling \$821 billion in 1990, almost three times the 1981 level. As a result of this rapid growth, health expenses will account for 10.8 percent of the gross national product in 1990, up from 9.7 percent in 1981.

With the tripling in size of the population 85 years and older, there will be a greater burden on the working population to provide necessary support for this group. The number of physicians should

be more than adequate, according to the report, but a careful watch should be kept on the need for and supply of hospital beds. Since nursing homes will experience the greatest impact of the anticipated changes in mortality trends, the authors suggest that alternative solutions to institutionalization of the elderly be sought.

The authors also encourage greater emphasis on geriatrics and gerontology in the training of health professionals and expanded education of the elderly themselves with emphasis on preventive medicine, nutrition, and self-care.

The projections upon which the publication is based were prepared by NCHS

in collaboration with the Office of the Actuary of the Social Security Administration.

Changing Mortality Patterns, Health Services Utilization, and Health Care Expenditures: United States, 1978-2003. Vital and Health Statistics, Series 3, No. 23. DHHS Publication No. (PHS) 83-1407. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. GPO Stock No. 017-022-00827-1. Price \$3.75.

EDUCATION NOTES

Design and Evaluation of Industrial Ventilation Systems. The Rocky Mountain Center for Occupational and Environmental Health (RMCOEH) at the University of Utah is sponsoring a course on the Design and Evaluation of Industrial Ventilation Systems (NIOSH 588) to be held in Las Vegas, Nev., April 9-13, 1984. The RMCOEH is an educational resource center sponsored by the National Institute for Occupational Safety and Health.

The course covers the fundamentals of industrial ventilation, including pertinent OSHA (Occupational Safety and Health Administration) regulations. Emphasis is on the design of ventilation systems for the removal of toxic gases, vapors or particulates (or both) from workplace environments in order to protect employees and to achieve compliance with occupational health standards. Ventilation design will include exhaust and air supply ventilation systems, selection of exhaust hoods, principles and selections of fans, determination of air volumes and minimum duct velocities, sizing and selection of ducts, calculation of systems pressure losses, and the selection of air cleaning devices. Computer design and cost analysis of ventilation systems and the use of recirculated air will be discussed.

Tuition for the course is \$500; the course instructor is D. Jeff Burton. For further information, contact Ms. K. Blosch/RMCOEH, U of U, Bldg. 512,

Salt Lake City, Utah 84112, telephone 801: 581-5710.

Graduate summer session in epidemiology. The Nineteenth Graduate Summer Session in Epidemiology will be held at the University of Minnesota June 17-July 7, 1984. Sponsored by the Epidemiology Section of the American Public Health Association, the Association of Teachers of Preventive Medicine, and the American College of Preventive Medicine, the session will be presented through the University of Minnesota School of Public Health, Health Sciences Center, and the Nolte Center for Continuing Education.

These summer graduate sessions were originally designed primarily for teachers in medical schools, but postdoctoral fellows, graduate students, and residents in departments of preventive medicine and other medical school departments qualify. Similarly teachers, postdoctoral fellows, and graduate students in schools of public health, dentistry, and veterinary medicine are eligible, as are qualified personnel of Federal, State, and local health agencies. The course is accredited (Category I), through the American College of Preventive Medicine, for the American Medical Association Physicians Recognition Award.

The 1984 graduate summer session will follow the pattern previously established,

but efforts are being made to structure existing course offerings into programmatic clusters, so that members of special interest groups can take several of the advances courses during the same year. The programmatic clusters include Fundamentals of Biostatistics, Fundamentals of Epidemiology, Epidemiology of Infectious Diseases, Hospital Epidemiology and Infection Control, Surveillance and Control of Communicable Diseases, Epidemiology and Health Policy, Epidemiology of Cancer, Epidemiology of Cardiovascular Diseases, Diseases due to Drugs, Environmental and Occupational Epidemiology, Epidemiology of Injuries, Categorical Analysis of Data, and Statistical Regression.

Tuition for the 3-week session will be \$375 for one class, \$600 for two or three classes, and \$700 for four classes. Special low rates for food and lodging in dormitories will be arranged, and some tuition aid will be available to U.S. citizens, although registrants should be prepared to explore alternative funding.

Further information and application forms may be obtained by writing Dr. Leonard M. Schuman, Director, Graduate Summer Session in Epidemiology, School of Public Health, P.O. Box 197, Mayo Memorial Bldg., University of Minnesota, Minneapolis, Minn. 54455.

PUBLICATIONS

FEDERAL

Special Report on Aging. National Institute on Aging 1983. *National Institutes*

of Health Publication No. 83-2489, 1983, 32 pages, single copies free. NIA/SR 83, Expand Associates, 8630 Fenton St., Suite 508, Silver Spring, Md. 20910.

Heart to Heart. A Manual on Nutrition Counseling for the Reduction of Cardiovascular Disease Risk Factors. *National Institutes of Health Publication*

No. 83-1528, September 1983, 121 pages, single copies free. Public Inquiries and Reports Branch, Box HH, National Heart, Lung, and Blood Institute, Bldg. 31, Rm. 4A21, Bethesda, Md. 20205.

Making PSAs Work. A Handbook for Health Communication Professionals. National Institutes of Health Publication No. 83-2485, September 1983, 66 pages, single copies free. Attn: Rose Mary Romano, Office of Cancer Communications, National Cancer Institute, Bldg. 31, Rm. 4B39, Bethesda, Md. 20205.

Prevention and Treatment of Kidney Stones. National Institutes of Health Publication No. 83-2495, August 1983, unnumbered pages, single copies free. Write Kidney Stones, National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases, Bldg. 31, Rm. 9A04, Bethesda, Md. 20205.

Publications of the National Institute of Mental Health. October-December 1983, 6 pages, single copies free. Public Inquiries Section, Science Communications Branch, Division of Communications and Education, NIMH, Rm. 15C-17, 5600 Fishers Lane, Rockville, Md. 20857.

Biotechnology Resources. A Research Resources Directory. National Institutes of Health Publication No. 83-1430, revised September 1983, 84 pages, single copies free. Research Resources Information Center, 1776 East Jefferson St., Rockville, Md. 20852.

Health Care Financing Status Report. Research and Demonstrations in Health Care Financing. DHHS Publication No. (HCFA) 03165, October 1983, 140 pages (single copies free). Health Care Financing Administration, Publications and Information Resources, Office of Research and Demonstrations, Rm. 2-E-6, Oak Meadows Bldg., 6323 Security Blvd., Baltimore, Md. 21207

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

Biological Response Modifiers: Subcommittee Report. National Cancer Institute Monograph No. 63. DHHS Publication No. 83-2606, 252 pages, September 1983. \$10 in United States; \$12.50 elsewhere. GPO Stock No. 017-042-00166-8.

Checklist for Establishing a Diagnostic Radiology Quality Assurance Program. National Center for Devices and Radiological Health. DHHS Publication No. (FDA) 83-8219. 62 pages, \$4. GPO Stock No. 017-015-00216-1.

A Basic Quality Assurance Program for Small Diagnostic Radiology Facilities. National Center for Devices and Radiological Health. DHHS Publication No. (FDA) 83-8218. 174 pages, \$3.75. GPO Stock No. 017-015-00217-9.

Patient Radiation Exposure in Diagnostic Radiology Examinations: An Overview. By Roger L. Burkhart, National Center for Devices and Radiological Health. DHHS Publication No. (FDA) 83-8217. 249 pages, \$5.50. GPO Stock No. 017-015-00215-2.

Utilization of Diagnostic X-ray Examinations. National Center for Devices and Radiological Health. DHHS Publication No. (FDA) 83-8208. 52 pages, \$4. GPO Stock No. 017-015-00212-8.

NON-FEDERAL

Knowledge into Action: A Guide to Research Utilization. Edited by George P. Cernada. 1982. 168 pages. \$9.95 pre-paid, plus \$1 postage. Baywood Publishing Co., Inc., 120 Marine St., Farmingdale, N.Y. 11735. (ISBN 0 89503 031 4).

Introduction of Innovations through Community Development. IACD Seminar, Seoul, May 1983. 1983. 385 pages. \$12, postage included. International Association for Community Development, 179, rue du Débarcadère, 6001 Marcinelle, Belgium.

Stop Dieting—Start Living. By Sharon Greene Patton. November 1983. 240 pages. \$14.95. Dodd, Mead & Co., 79 Madison Ave., New York, N.Y. (ISBN 0 396 08209 2).

Directory of Preferred Provider Organizations. Fall 1983. 36 pages. \$7.50. Clearinghouse on Preferred Provider Organizations, Institute for International Health Initiatives, Inc., 5410 Grosvenor Lane, Suite 210, Bethesda, Md. 20814.

200 Ways to Put Your Talent to Work in the Health Field. 1983. Pamphlet. Single copy free with self-addressed, business-size envelope with \$.37 postage affixed. National Health Council, Department 200, 70 West 40th St., New York, N.Y. 10018. Bulk quantities: \$.15 each pre-paid, National Health Council, 70 West 40th St., New York, N.Y. 10018 (UPS charges added to billed orders).

Education-for-Health: The Selective Guide. 1983. 928 pages. \$90 plus \$5 for postage and handling. National Center for Health Education, 30 East 29th St., New York, N.Y. 10016.

Safe Natural Remedies for the Discomforts of Pregnancy. 1982. 30 pages. \$2 plus \$.75 postage. Perinatal Committee, Coalition for the Medical Rights of Women, 1638-B Haight St., San Francisco, Calif. 94117. Spanish edition being prepared.

Recent Advances in Immunization. A Bibliographic Review. Scientific Publication No. 451. Coordinated by Neal A. Halsey and Ciro A. de Quadros. 1983. 102 pages. \$7. Pan American Health Organization, Pan American Sanitary Bureau, Regional Office of the World Health Organization, 525 23rd St., NW, Washington, D.C. 20037. (ISBN 92 75 11451 X). Spanish edition: ISBN 92 75 31451 9.

Institute for Health Planning, 702 North Blackhawk Ave., Madison, Wis. 53705. a. k. a. P. O. A Review of Selected Provider Arrangements. By James R. Kimmey. November 1983. 39 pages. \$10.

Business/Health Care Coalitions in Profile. By Barbara W. Greenman, October 1983. 91 pages. \$12.

Determining the Environment for State Health Planning: A Guide. By James R. Kimmey. December 1983. 71 pages. \$12.

Determining the Environment for State Health Planning: A Self-Assessment Manual. By Robert W. Peterson. December 1983. Looseleaf, 123 pages. \$15.

Public Affairs Committee, Inc., 381 Park Ave., South, New York, N.Y. 10016.

Immunization—Protection Against Childhood Diseases. By Jules Saltman. Revised Edition, October 1983. Public Affairs Pamphlet No. 565, 21 pages. \$1.

The Right to Die with Dignity. By Elizabeth Ogg. Revised Edition, November 1983. Public Affairs Pamphlet No. 587A. 29 pages. \$1.

The Robert Wood Johnson Foundation. P. O. Box 2316, Princeton, N. J. 08540.

Updated Report on Access to Health Care for the American People. Special Report No. 1, 1983. 11 pages. Free.

National Prevention Dentistry Demonstration Program. *Special report No. 2, 1983. 18 pages. Free.*

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

Traditional Medicine and Health Care Coverage. A Reader for Health Administrators and Practitioners. *Edited by R. H. Bannerman, J. Burton, and C. Wen-Chieh. 1983, 342 pages, 35 Swiss francs (ISBN 92 4 154136). Arabic and French editions in preparation.*

Gestational Trophoblastic Diseases. Report of a WHO Scientific Group. *WHO Technical Report Series No. 692, 1983, 81 pages, 7 Swiss francs (ISBN 92 4 120692 6).*

Viral Vaccines and Antiviral Drugs. Report of a WHO Scientific Group. *WHO Technical Report Series No. 693, 1983, 72 pages, 6 Swiss francs (ISBN 92 4 120693 4).*

Research for the Reorientation of National Health Systems. Report of a WHO Study Group. *WHO Technical Report Series No. 694, 1983, 71 pages, 7 Swiss*

francs (ISBN 92 4 120694 2).

Smoking Control Strategies in Developing Countries. Report of a WHO Expert Committee. *WHO Technical Report Series No. 695, 1983, 92 pages, 8 Swiss francs (ISBN 92 4 120695 0).*

Evaluation of Certain Food Additives and Contaminants. Twenty-seventh Report of the Joint FAO/WHO Expert Committee on Food Additives. *WHO Technical Report Series No. 696, 1983, 47 pages, 5 Swiss francs (ISBN 92 4 120696 9).*

Air Quality in Selected Urban Areas, 1979-1980: Global Environmental Monitoring System. *WHO Offset Publication No. 76, 1983. 57 pages, 8 Swiss francs (ISBN 92 4 170076 9).*

Health for All—A Challenge to Research in Health Manpower Development. Proceedings of the 16th CIOMS Round Table Conference, Ibadan, Nigeria, November 24-26, 1982. *Council for International Organizations of Medical Sciences. 1983. 187 pages. 20 Swiss francs (ISBN 92 9036 014 3).*

WHO Regional Office for Europe, Scherfigsvej 8, DH-2100 Copenhagen, Denmark.

Graduate Medical Education in the European Region. *EURO Reports and Studies No. 77, 1983, 151 pages, 12 Swiss francs (ISBN 92 890 1243 9).*

Indoor Air Pollutants: Exposure and Health Effects. Report on a WHO Meeting, Nördlingen, June 8-11, 1982. *EURO Reports and Studies No. 78, 1983, 42 pages, 4 Swiss francs (ISBN 92 890 1244 7).*

Services to Prevent Disability in the Elderly. Report on a WHO Meeting, Sokobanja, Oct. 12-15, 1982 *EURO Reports and Studies No. 83, 1983, 33 pages, 5 Swiss francs (ISBN 92 890 1249 8).*

The Work of WHO in the European Region, 1982. Annual Report of the Regional Director. 1983, 126 pages, 12 Swiss francs (ISBN 92890 1013 4).

Management of Hazardous Waste. Policy Guidelines and Code of Practice. *Edited by M. J. Suess and J. W. Huismans. WHO Regional Publications, European Series No. 14, 1983, 100 pages, 10 Swiss francs (ISBN 92 890 1105 X).*

1983 Catalogue of Publications. 1983, 47 pages.

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