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Cover: A husband comforts his grieving wife after Hurricane Celia destroyed their home in Corpus Christi, Tex., in 1970 (*American Red Cross photo by Jack Shere*) The lead article in this issue presents the results of a 1977 retrospective investigation to determine the effects of Hurricane Agnes on the physical and mental health of residents of the Wyoming Valley of Pennsylvania.

Cost Savings Through New Technique for Reimbursement for Medical Services

■ Reimbursement of physicians for hospital services by the case, instead of by the traditional fee-for-service method, may be to the consumers' advantage, according to an experimental study conducted by the Pennsylvania Blue Cross with support from the National Center for Health Services Research. Preliminary results indicate that such a switch in reimbursement techniques could cut costs and reduce patients' length of stay. Thus, the technique could have important implications for efforts to contain skyrocketing medical costs.

In the study, reimbursement under the traditional, disaggregated fee-for-service approach was compared with fixed, per-case reimbursement determined by the diagnosis. Comparisons of the study group with longitudinal and cross-sectional control groups revealed modest favorable changes in average lengths of stay in the hospital as well as some cost savings. According to the principal investigator, Gene A. Markel, these preliminary results represent an important stepping stone for future research aimed at offering physicians in fee-for-service practices effective incentives for eliminating unnecessary hospitalization and reducing lengths of stay.

Per Case Reimbursement for Medical Services by Gene A. Markel. DHEW Publication No. (PHS) 79-3230, October 1978. NCHSR Research Summary Series. Single copies are available free from the National Center for Health Services Research/OASH, Rm. 7-44, 3700 East-West Highway, Hyattsville, Md. 20782 (301/436-8970).

FDA Bans Diethylstilbestrol As Growth Promoter in Animals

■ The Food and Drug Administration has announced a ban on the use of diethylstilbestrol (DES) as a growth promoter in cattle and sheep. This synthetic hormone, which has been used since the 1950s to make animals grow faster, has been shown to cause cancer in both animals and people. Alternative growth promoters are avail-

able. DES is administered to animals as an implant behind the ears and as an additive to their feed. The drug also is used to treat certain cancers and other medical conditions in people, but the action to ban DES does not affect its use for these purposes.

The action by FDA upholds a decision made September 21, 1978, by FDA Administrative Law Judge Daniel Davidson following a lengthy hearing.

Former FDA Commissioner Donald Kennedy concluded that:

- DES causes cancer and it has not been shown that there is an amount below which it does not cause cancer.
- Residues of DES occur in food from animals which have been treated with it.
- There is no currently approved way to detect whether there are carcinogenic DES residues in the edible meat of animals.
- The law does not authorize FDA to consider the economic benefits of drugs such as DES; in any event, those opposing the ban have not demonstrated that it will have any significant adverse environmental or economic impact.

The manufacture and shipment of DES was banned as of July 13, 1979. Use of DES in livestock and sheep must be ended by November 1979.

education notes

Fellowships for study of ethics and the life sciences. The Hastings Center, Institute of Society, Ethics and the Life Sciences, is offering three 1-year resident postdoctoral fellowships for the study of ethics and the life sciences for the academic years 1980-81.

The fellowships are offered under a grant from the National Endowment for the Humanities and the Society for

Industrial Toxicology and Control of Hazardous Materials and Waste

■ A seminar on industrial toxicology and occupational control of hazardous materials has been scheduled for December 10-14, 1979, and March 17-21, 1980, in Nashville, Tenn. A seminar on hazardous waste management will also be held in Nashville, on February 18-22, 1980. These seminars are sponsored by the Toxic Substance Control Laboratory and the Center for Environmental Quality Management of Vanderbilt University, Nashville.

The seminar on industrial toxicology and occupational control of hazardous materials is geared to provide a working knowledge of hazardous materials and to be responsive to the need for compliance with the Occupational Safety and Health Act (OSHA) regulation of hazardous materials. Consultation will be available throughout the meetings.

The seminar on hazardous waste management is designed to furnish an overall understanding of hazardous waste control and its application to compliance with the Resource Conservation and Recovery Act (RCRA) regulation of hazardous waste disposal.

For further information, contact Janet Vance, Vanderbilt University, Box 6222, Sta. B, Nashville, Tenn. 37235, telephone 615: 322-2331.

Values in Higher Education. The program is interdisciplinary, is open to applicants from all fields, and requires an advanced doctoral or professional degree (or its equivalent). Application deadline is January 1, 1980. Request brochure from B. Baya, Post-Doctoral Fellowship Program, The Hastings Center, 360 Broadway, Hastings-on-Hudson, New York 10706.

Air Pollution Training Institute. Following is a chronological schedule of the courses being offered by the Environmental Protection Agency from January through September 1980. The courses range from an orientation level for personnel with little or no experience to a highly technical level to meet the needs of the more experienced air pollution control personnel. The fees are \$22 per student day for lecture courses and \$35 per day for laboratory courses. Fees cannot be waived.

For further information, contact Registrar, Air Pollution Training Institute, U.S. Environmental Protection Agency, MD-20 Research Triangle Park, N.C. 27711 (telephone 919: 541-2497, FTS 629-2497).

1980 chronological schedule of courses

Date	Course No. and title ¹		Days	Location ²
January				
8-11	413	Control of Particulate Emissions	4	Birmingham, Ala. (7)
8-11	431	Air Pollution Control Technology	4	Puerto Rico
14-18	423	Dispersion of Air Pollution—Theory and Model Application	4½	Atlanta, Ga.
22-25	444	Air Pollution Field Enforcement	3½	Portland, Oreg. (6)
21-Feb. 1	*464	Analytical Methods for Air Quality Standards	10	Research Triangle Park, N.C.
February				
4-8	427	Combustion Evaluation	5	Davis, Calif. (4)
4-8	*450	Source Sampling for Particulate Pollutants	4½	Research Triangle Park, N.C.
11-14	*468	Source Sampling and Analysis for Gaseous Pollutants	4	Research Triangle Park, N.C.
11-15	426	Statistical Evaluation Methods for Air Pollution Data	4½	San Francisco, Calif.
11-15	542	Principles and Practice of Air Pollution Control	4½	Atlanta, Ga.
25-29	427	Combustion Evaluation	5	Philadelphia, Pa. (5)
25-29	*474	Continuous Emission Monitoring	5	Research Triangle Park, N.C.
26-29	415	Control of Gaseous Emissions	4	Columbia, S.C. (7)
March				
4-7	413	Control of Particulate Emissions	4	Boston, Mass. (1)
4-7	470	Quality Assurance for Air Pollution Measurement Systems	4	Research Triangle Park, N.C.
10-14	452	Principles and Practice of Air Pollution Control	4½	Baltimore, Md.
17-21	411	Air Pollution Meteorology	4½	Cincinnati, Ohio (3)
17-21	*450	Source Sampling for Particulate Pollutants	4½	New Brunswick, N.J. (5)
18-21	482	Sources and Control of Organic Air Pollutants	4	San Diego, Calif.
24-28	*435	Atmospheric Sampling	4½	Houston, Tex.
April				
8-11	425	Legal Aspects of Control Agency Regulatory Operations	3½	Gainesville, Fla. (7)
15-18	415	Control of Gaseous Emissions	4	Cincinnati, Ohio (3)
15-18	482	Sources and Control of Organic Air Pollutants	4	Washington, D.C.
28-May 2	463	Ambient Air Quality Monitoring Systems	5	Research Triangle Park, N.C.
May				
5-9	*450	Sources and Control of Organic Air Pollutants	4½	Research Triangle Park, N.C.
12-16	427	Combustion Evaluation	5	Gainesville, Fla. (7)
12-16	*420	Air Pollution Microscopy	4½	Edison, N.J.
20-23	444	Air Pollution Field Enforcement	3½	Chicago, Ill. (8)
20-23	413	Control of Particulate Emissions	4	Dallas, Tex. (2)
June				
2-6	*474	Continuous Emission Monitoring	5	Research Triangle Park, N.C.
3-6	444	Air Pollution Field Enforcement	3½	Harrisburg, Pa. (3)
9-13	*450	Source Sampling for Particulate Pollutants	4½	Seattle, Wash. (6)
9-13	423	Dispersion of Air Pollution—Theory and Model Application	4½	Albany, N.Y.
10-13	470	Quality Assurance for Air Pollution Measurement Systems	4	Indianapolis, Ind.
16-20	*435	Atmospheric Sampling	4½	New Brunswick, N.J. (5)
17-20	413	Control of Particulate Emissions	4	Chicago, Ill. (8)
July				
7-11	452	Principles and Practice of Air Pollution Control	4½	Houston, Tex.
14-18	427	Combustion Evaluation	5	Kansas City, Mo. (2)
14-18	*450	Source Sampling for Particulate Pollutants	4½	Chicago, Ill. (8)
14-18	427	Combustion Evaluation	5	Boston, Mass. (1)
21-25	426	Statistical Evaluation Methods for Air Pollution Data	4½	Topeka, Kans.
22-25	413	Control of Particulate Emissions	4	Davis, Calif. (4)
22-25	413	Control of Particulate Emissions	4	Philadelphia, Pa. (4)
21-Aug. 1	*464	Analytical Methods for Air Quality Standards	10	Research Triangle Park, N.C.

1980 chronological schedule of courses (continued)

Date	Course No. and title ¹	Days	Location ²
August			
4-8	*450 Source Sampling for Particulate Pollutants	4½	Research Triangle Park, N.C.
11-14	*468 Source Sampling and Analysis for Gaseous Pollutants	4	Research Triangle Park, N.C.
11-15	427 Combustion Evaluation	5	Seattle, Wash. (6)
18-22	*435 Atmospheric Sampling	4½	Davis, Calif. (4)
18-22	411 Air Pollution Meteorology	4½	Richmond, Va. (5)
19-22	482 Sources and Control of Organic Air Pollutants	4	Chicago, Ill.
25-29	452 Principles and Practice of Air Pollution Control	4½	Buffalo, N.Y.
26-29	413 Control of Particulate Emissions	4	Cleveland, Ohio (3)
26-29	413 Control of Particulate Emissions	4	Jackson, Miss. (2)
September			
8-12	*474 Continuous Emission Monitoring	5	Research Triangle Park, N.C.
15-19	427 Combustion Evaluation	5	Detroit, Mich. (8)
15-19	423 Dispersion of Air Pollution—Theory and Model Application	4½	Denver, Colo.
23-26	415 Control of Gaseous Emissions	4	Boston, Mass. (1)
23-26	444 Air Pollution Field Enforcement	3½	San Francisco, Calif. (4)
23-26	470 Quality Assurance for Air Pollution Measurement Systems	4	Phoenix, Ariz.

¹ Asterisk (*) indicates laboratory courses.

² Numbers in parentheses indicate courses conducted by area training centers under grants from the Environmental Protection Agency, Office of Air Quality Planning and Standards, Manpower and Technical Information Branch (MTIB), with support provided by Northrop Services, Inc., a firm also under contract to MTIB. The institutions involved and their respective numbers are as follows.

- (1) New England Consortium on Environmental Protection, c/o Boston College, Weston, Mass.
 (2) University of Texas, Austin.
 (3) University of Cincinnati, Cincinnati, Ohio.
 (4) University of California—Davis.

- (5) Rutgers University, New Brunswick, N.J.
 (6) University of Washington, Seattle.
 (7) University of Florida, Gainesville.
 (8) Illinois Institute of Technology, Chicago.

publications

FEDERAL

Cost Containment in Hospitals Through Energy Conservation. Case histories of energy conservation based on a national survey of select hospitals. *DHEW Publication No. (HRA) 79-14511*. 1979; 28 pages.

Child Health Assessment. Part 2: The First Year of Life. *DHEW Publication No. (HRA) 79-25*. June 1979; 22 pages.

Food Consumption Profiles of White and Black Persons Aged 1-74 Years: United States, 1971-74. *DHEW Publication No. (PHS) 79-1658, Series 11, No. 210*. May 1979; 103 pages.

Weight and Height of Adults 18-74 Years of Age: United States, 1971-74. *DHEW Publication No. (PHS) 79-*

1659, Series 11, No. 211. May 1979; 49 pages.

Skin Conditions and Related Need for Medical Care Among Persons 1-74 Years, United States, 1971-1974. *DHEW Publication No. (PHS) 79-1660, Series 11, No. 212*. November 1978; 72 pages.

Sickle Cell Anemia. A medical review. By Jane S. Lin-Fu. *DHEW Publication No. (HSA) 79-5123*. Revised 1972, reprinted 1979. 26 pages.

Maple Syrup Urine Disease Symposium. Issues and Perspectives. Edited by Richard Koch, Kenneth N. F. Shaw, and Frances Durkin. *DHEW Publication No. (HSA) 79-5294*. 1979; 56 pages.

Treatment Programs for PKU in the United States: A survey. By Virginia E. Schuett and Robert F. Gurda. *DHEW Publication No. (HSA) 79-5296*. 1979; 49 pages.

Extended Care Facilities, Census Data: 1969 through 1978. By Glenda Wright and William Frank Page. *Extended Care Census Report No. 6*. August 1979; 98 pages. Reports and Statistics Service, Office of Controller, Veterans Administration, Washington, D.C. 20420.

Federal publications listed are obtainable from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Orders should be accompanied by check or money order and should identify the publication. (Publications without prices may be obtained from the agency.)

WORLD HEALTH ORGANIZATION

The African Trypanosomiasis. Report of a Joint WHO Expert Committee and FAO Expert Consultation. *WHO Technical Series No. 635*. 1979; 96 pages (ISBN 92 4 120635 7); Geneva (also published in French).

Controlling the Smoking Epidemic. Report of the WHO Expert Committee on Smoking Control. *WHO Technical Report Series No. 636*. 1979; 87 pages (ISBN 92 4 120636 5); Geneva (French and Spanish editions in preparation).

DDT and Its Derivatives. Published under the joint sponsorship of the United Nations Environment Programme and the World Health Organization. *Environmental Health Criteria 9*. 1979; 175 pages (ISBN 92 4 154069 9); Geneva (French edition in preparation).

Carbon Disulfide. Published under the joint sponsorship of the United Nations Environment Programme and the World Health Organization. *Environmental Health Criteria 10*. 1979; 100 pages (ISBN 92 4 154070 2); Geneva (French edition in preparation).

Oral Health Services in Europe. By J. Kostlan. *WHO Regional Publications, European Series No. 5*. 1979; 141 pages (ISBN 92 9020 105 3); Copenhagen.

Measurement of Levels of Health. Edited by Walter W. Holland, Johannes Ipsen, and Jan Kostrzewski. *WHO Regional Publications, European Series No. 7*. 1979; 456 pages (ISBN 92 9020 107 X); Copenhagen.

International Histological Classification of Tumours, No. 20: Histological typ-

ing of tumours of the liver, biliary tract and pancreas. By J. B. Gibson in collaboration with L. H. Sobin and pathologists in 13 countries. 1978; 40 pages, illustrated (ISBN 92 4 176020 6); Geneva (French and Spanish editions in preparation).

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Vol. 19: Some Monomers, Plastics, and Synthetic Elastomers, and Acrolein. 1979; 513 pages. *International Agency for Research on Cancer, Lyon*. Distributed for IARC by WHO.

Cancer Registration and Its Techniques. Edited by R. MacLennan, C. Muir, R. Steinitz, and A. Winkler. *IARC Scientific Publications, No. 21*. 1978; 235 pages. *International Agency for Research on Cancer, Lyon*. Distributed for IARC by WHO.

Environmental Carcinogens—Selected Methods of Analysis. Vol. 2. Methods for the Measurement of Vinyl Chloride in Poly (vinyl chloride), Air, Water and Foodstuffs. By D. C. M. Squirell and W. Thain. *IARC Scientific Publications No. 22*. 1978; 140 pages. *International Agency for Research on Cancer, Lyon*. Distributed for IARC by WHO.

WHO publications may be obtained from WHO Publications Centre USA, 49 Sheridan Ave., Albany, N.Y. 12210.

NON-FEDERAL

Anti-Trust Implications of Hospital Mergers: A Review and Discussion. By David B. Starkweather, Leo Greenawalt, and Anne Mehringer. June 1979; \$3.50. *REPORTS, Attn.: J. Lyons,*

211/7, Blue Cross & Blue Shield Assns., 840 North Lake Shore Dr., Chicago, Ill. 60611.

Group Practice: Review and recommendations for planning and research. By John E. Kralewski and Roice D. Luke. June 1979; \$4. *REPORTS, Attn.: J. Lyons, 211/7, Blue Cross & Blue Shield Assns., 840 North Lake Shore Dr., Chicago, Ill. 60611.*

Working Paper of the NLN Task Force on Competence of Graduates of Nursing Programs. *NLN Publication No. 14-1787*. 1979; 15 pages; \$1.50. *Publications Order Unit, National League for Nursing, 10 Columbus Circle, New York, N.Y. 10019.*

Lung Diseases of Children. By Hugh E. Evans. 1979; 109 pages. *American Lung Association, 1740 Broadway, New York, N.Y. 10019.*

Know Your Medication. How to use over-the-counter and prescription drugs. By Alex Gordon and Jules Saltman. *Public Affairs Pamphlet No. 570*. June 1979; 28 pages; 50 cents. *Public Affairs Pamphlets, 381 Park Ave. South, New York, N.Y. 10016.*

Inside the Mayo Clinic. By Alan E. Nourse. 1979; \$12.95. *McGraw-Hill Book Co., 1221 Avenue of the Americas, New York, N.Y. 10020.*

Stomach Cancer. A series of workshops on the biology of human cancer. Edited by D. W. Piper. *UICC Technical Report Series, Vol. 34, Report No. 6*. 1978; 138 pages. *International Union Against Cancer, 3 rue du Conseil-General, Ch 1205, Geneva, Switzerland.*

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- (*) Original signed article
- (PR) Publication review
- (SR) Short report

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