GENERAL continued

Case mix and surrogate indicators of quality of care over time in freestanding and hospital-based nursing homes in Colorado	486
An assessment of the completeness of the Massachusetts Burn Registry	492
SPECIAL SUPPLEMENT: WINNERS OF THE SECRETARY'S AWARD FOR INNOVATIONS IN HEALTH PROMOTION AND DISEASE PREVENTION	
A minimal-contact smoking cessation program in a health care setting (first place)	497
A proposed campaign to increase the use of restraint systems for young children who ride in cars (second place)	502
A new curriculum for fitness education (third place)	507
Abstracts of the 14 semifinalists' papers	516-520
DEPARTMENTS	
PROGRAMS, PRACTICES, PEOPLE	
AIDS hotline expanded Making a difference: a community health project for student nurses, Peggy J. Drapo, Charlotte R. Patrick, and Linda Piatt — Major diabetes clinical trial seeks volunteers — Drop in blood lead levels found in U.S. population — New multidisciplinary clinic for pain research at NIH seeks additional patients — Private practice placements exceed the expectations of National Health Service Corps, Bernardine A. Moore — Tenth report of the National Heart, Lung, and Blood Advisory Council — Study finds severe shortages of black physicians and other health professionals — "Would you say your health is excellent, good, fair, or poor?" — Women using Dalkon shield are warned to consult their physicians — Pamphlet is available on causes, treatment, and prevention of osteoporosis	411 521-526
EDUCATION NOTES	
Courses for professionals and specialists responsible for occupational health and safety	526
LETTER TO THE EDITOR	
Surgeons General's reports on smoking and cancer: uses and misuses of statistics and of science, Richard J. Hickey and I. Elaine Allen	410
PUBLICATIONS	
Federal	527 527



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES Margaret M. Heckler, Secretary



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

PUBLIC HEALTH REPORTS (USPHS 324-990) ISSN 0090-2818

Editorial Board

Dr. C. Everett Koop, Surgeon General and Chairman Dr. George E. Hardy, Jr., CDC Dr. Robert S. Gordon, Jr., NIH Dr. Everett Rhoades, HRSA Dr. Stuart Nightingale, FDA Dr. Harold A. Pincus, ADAMHA

Marian Priest Tebben, Editor Ellen Casselberry, Assistant Executive Editor Virginia M. Larson, Managing Editor

Ron Kostraba, Art Director Rick Mowery, Art Production

Opinions expressed are the athors' and do not necessive reflect the views of *Public Hell Reports* or the Public Health Scice. Trade names are used identification only and do represent an endorsement by the Service.

Address correspondence to:

Editor, Public Health Reports Rm. 721-H, Hubert H. Humphrey \$2 200 Independence Ave., SW Washington, D.C. 20201 AC 202:426-5146

Subscription Information

Public Health Reports is for by the Superintendent of Doments, U.S. Government Primordifice, Washington, D.C. 204 All correspondence about subscriptions (for example, chapped addresses or failure to recommend to superintendent of Document of Document Primordification of the Superintendent of Document Primordification of the Superintendent of Document Primordification of Document Primordific

NEW SUBSCRIPTION POLICI
EFFECT Because of increacosts for publishing and the retions in Federal spending &
Health Reports no longer caprovided free of charge to repersons, organizations, and recies that received compliment
copies in the past.

Please use the subscription on the last page and send it with your payment to the Surtendent of Documents.

- Health, Education and Welfare, Washington, D.C., 1964, p. 182.
- Hickey, R. J.: Statement. In Comprehensive Smoking Prevention Education Act, appendix to hearings before the Subcommittee on Health and the Environment, of the Committee on Energy and Commerce, U.S. House of Representatives, 97th Congress, 2nd Session, on H.R. 5653 and H.R. 4957, March 5, 11, and 12, 1982. Serial No. 97-107. U.S. Government Printing Office, Washington, D.C., 1982, pp. 618-626.
- 4. Fisher, R. A.: Statistical tests. Nature 136: 474 (1935).
- Snedecor, G. W., and Cochran, W. G.: Statistical methods. Ed. 6. Iowa State University Press, Ames, Iowa, 1967
- Fisher, R. A.: Smoking: the cancer controversy. Some attempts to assess the evidence. Oliver and Boyd, Edinburgh, 1959.
- 7. Burch, P. R. J.: Smoking and lung cancer: the problem of inferring cause (with discussion). J R Stat Soc, ser. A. vol. 141, pt. 4: 437-477 (1978).
- 8. Yule, G. U.: The function of scientific method in scientific investigation. Industrial Fatigue Research Board Report, London, 1924, p. 28. Cited by Brownlee (9).
- 9. Brownlee, K. A.: A review of "Smoking and Health."
 J Am Stat Assoc 60: 722-739 (1965).
- Berkson, J.: The statistical study of association between smoking and lung cancer. Proc Staff Meet Mayo Clin 30: 319-349 (1955); (a) p. 332.
- Berkson, J.: Smoking and lung cancer: some observations on two recent reports. J Am Stat Assoc 53: 28– 38 (1958).
- Berkson, J.: Smoking and cancer of the lung. Proc Staff Meet Mayo Clin 35: 367-385 (1960). Second printing, 1961, with minor editing.
- Berkson, J.: Smoking and lung cancer: another view. Lancet 1: 807-808 (1962).
- Berkson, J.: Smoking and lung cancer: Am Statistician 17: 15-22 (1963).
- 15. Berkson, J.: Smoking and lung cancer: an untelevised telecast. Cancer Bull 15: 52-57 (1963).
- Hickey, R. J., Boyce, D. E., Harner, E. B., and Clelland, R. C.: Ecological statistical studies concerning en-

- vironmental pollution and chronic disease. IEEE Trans Geosci Electronics GE-8: 186-202 (1970).
- Hickey, R. J.: Air Pollution. In Environment: resources, pollution and society, edited by W. W. Murdoch. Sinauer Associates, Inc., Stamford, Conn., 1971, pp. 189-212.
- Hickey, R. J., Clelland, R. C., and Clelland, A. B.: Epidemiological studies of chronic disease: maladjustment of observed mortality rates. Am J Public Health 70: 142-150 (1980).
- Hickey, R. J., et al.: Low level ionizing radiation and human mortality: multi-regional epidemiological studies. A preliminary report. Health Phys 40: 625-641 (1981).
- Hickey, R. J., Boyce, D. E., Clelland, R. C., and Harner, E. B.: Smoking and pregnancy. Nature 246: 177-178 (1973).
- Hickey, R. J., Harner, E. B., Clelland, R. C., and Boyce, D. E.: Behavioral regulation of physiological homeostasis. Naturwissenschaften 60: 206-207 (1973).
- Hickey, R. J., Clelland, R. C., and Bowers, E. J.: Maternal smoking, birth weight, infant death, and the self-selection problem. Am J Obstet Gynecol 131: 805-811 (1978).
- 23. Altman, D. C.: Statistics in medical journals. Stat Med 1: 59-71 (1982).

Editor's Note: The Public Health Service's 1982 report on smoking and cancer, which concludes that cigarette smoking is a major cause of cancers of multiple organs, was extensively reviewed by dozens of experts in many fields both inside and outside the Federal sector. Its findings are consistent with those of other respected scientific bodies including the American Medical Association, the Royal College of Physicians, and the World Health Organization. The Public Health Service maintains its position that cigarette smoking is the single most important preventable environmental factor contributing to illness, disability, and death in the United States.

AIDS Hotline Expanded

To meet the demand for information about Acquired Immune Deficiency Syndrome (AIDS), the Department of Health and Human Services has expanded its nationwide AIDS hotline from three to eight lines. Each day the hotline has averaged 8,000–10,000 calls. The toll-free line (800: 342-AIDS) was installed July 1

to provide timely, accurate information on AIDS.

In addition to increasing the number of lines, the hotline is now active 24 hours a day. Callers hear a 3-minute tape explaining AIDS symptoms, methods of transmission, and the AIDS high-risk groups. From 8:30 a.m. to 5:30 p.m., callers may stay on the line for more detailed information. Free copies of "Facts

About AIDS" are also available to callers.

Secretary of Health and Human Services Margaret M. Heckler said, "the Public Health Service professional employees who are taking these calls tell me that 90 percent of the callers have fears about AIDS. I intend to provide these people with all the help and information we can."

References

- U.S. Department of Health, Education, and Welfare: Health education-risk reduction grants interim guidelines. Washington, D.C., Mar. 18, 1980.
- Health Ohio: choice or chance? Ohio Department of Health. Columbus. 1982.
- Colorado Department of Health: Colorado adult population survey: health risk prevalence. Denver, March 1982
- U.S. Department of Health and Human Services: Readability testing in cancer communications. NIH Publication No. 81-1689, Washington, D.C., June 1981.
- Aneshensel, C. S., Frerichs, R. R., Clark, V. A., and Yokopenic, P. A.: Telephone versus in-person surveys of community health status. Am J Public Health 72: 1017-1021. September 1982.
- Kish, L.: Survey sampling. John Wiley and Sons, Inc., New York, 1965.
- Tortora, R. D.: A note on sample size estimation for multinominal populations. Am Statistician 32: 100– 102 (1978).
- 8. Kreijcie, R., and Morgan, D.: Determining sample size

- for research activities. Ed and Psych Measurement 30: 607-610 (1970).
- Lambert, C. A., et al.: Risk factors and life style: a statewide health-interview survey. N Engl J Med 306: 1048-1051 (1983).
- U.S. Department of Health, Education, and Welfare: Smoking and health. A report of the Surgeon General. DHEW Publication No. (PHS) 79-50066. U.S. Government Printing Office. Washington. D.C., 1979.
- U.S. Department of Health and Human Services: Promoting health/preventing disease: objectives for the nation. U.S. Government Printing Office, Washington, D.C., 1980.
- Ohio Department of Health: Health education-risk reduction annual report. Columbus. Undated.
- 13. 1982 Butler County health risks prevalence survey. Middletown Health Department, 1 City Center Plaza, Middletown, Ohio 45042, 1982.
- 14. Kreuter, M. W., Christensen, G. M., and DiVincenzo, A.: The multiplier effect of the health education-risk reduction program in 28 States and 1 Territory. Public Health Rep 97: 510-515. November-December 1982.



After the conference, find out what REALLY happened!

If you're missing out on important developments in your field, subscribe to PUBLIC HEALTH REPORTS.

Send check or money order (\$19.00 per year domestic; \$23.75 foreign), payable to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

health status of about 110,000 persons. The data were collected by the U.S. Bureau of the Census in 1978 in a nationwide survey of 41,000 sample homes. In the survey, interviewers asked family members to rate the health of themselves and of others in the family who were not at home or who were under 17 years of age.

The respondents' assessment of health was found to correlate closely with other measures of health status and use of services. To show as much detail as possible, the results of the survey are extensively cross-classified in the publication.

The data indicate that in general. as age increases, the proportion of persons who assess their health as fair or poor also increases. A higher proportion of females assess their health as fair or poor. Proportionately, more black persons are assessed in fair or poor health than are persons of other races. In general, the lower the family income, the higher the proportion of persons who are assessed to be in fair or poor health. The higher the educational level, the lower the proportion of respondents who consider themselves in fair or poor health. Widowed, divorced, and separated people consider themselves in fair or poor health in a higher proportion than married people.

Americans Assess Their Health: United States, 1978. Vital and Health Statistics, Series 10, No. 142. Department of Health and Human Services Publication No. (PHS) 83–1570. National Center for Health Statistics, Hyattsville, Md., March 1983. Available from U.S. Government Printing Office, Washington, D.C. 20402, GPO Stock No. 017–022–00820–3, price \$4.75

Women Using Dalkon Shield Are Warned to Consult Their Physicians

Findings of the Centers for Disease Control and the Food and Drug Administration indicate that women using the Dalkon Shield intrauterine device (IUD) have a 5-fold increase of pelvic inflammatory disease (PID), compared with women using other kinds of IUDs. Based on this information, Assistant Secretary for Health Dr. Edward N. Brandt, Jr., has warned women using a Dalkon Shield to contact their physicians concerning its removal. No change in contraceptive practice is recommended for women using other types of IUDs.

The increased risk for PID in Dalkon Shield users was revealed in a U.S. study of the contraceptive methods used by women who were hospitalized with PID. This was the first study large enough to determine the risks of PID associated with different IUD types.

The Dalkon Shield has not been marketed since 1974, when the manufacturer withdrew the product from distribution because of pregnancyrelated infections. Women who had their current IUD inserted before 1975 and who are unaware of the specific type of IUD they are using are advised to consult their physicians. Because the Dalkon Shield was withdrawn from the market in 1974, this recommendation does not affect women whose IUD was inserted after that time

Pamphlet Is Available on Causes, Treatment, and Prevention of Osteoporosis

The National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases has prepared a pamphlet that discusses the causes, treatment, prevention, symptoms, and research outlook for osteoporosis.

Osteoporosis is a condition in which bone tissue decreases, causing the bones to become more susceptible to fracture. The disorder is the principal underlying cause of bone fractures in older people, especially women. An estimated 2 to 5 million Americans seek medical help each year for some problem linked to osteoporosis, and upward of 15 million have osteoporosis to some degree.

Osteoporosis: Cause, Treatment, Prevention. NIH Publication No. 83–2226, April 1983. Single free copies available by writing Osteoporosis, NIA-DDK, Bldg. 31, Rm. 9A04, Bethesda, Md. 20205.

EDUCATION NOTES

Courses for professionals and specialists responsible for occupational health and safety. The Midwest Center for Occupational Health and Safety, a NIOSH (National Institute of Occupational Safety and Health)-sponsored Educational Resource Center in St. Paul, Minn., has announced the following courses:

The Occupational Health Nurse Confronts Chemical Abuse in the Workplace, Oct. 14-15, 1983, Rochester, Minn. This course is for practicing occupational health nurses and other interested nurses.

Comprehensive Occupational Health Nursing Review: Basic Theory and Update, Oct. 24-27, 1983, University of Minnesota, St. Paul. This course will provide a comprehensive review of the basic principles and theories of occupational health nursing, update students' knowledge of occupational health legislation and nursing standards, and help prepare practicing nurses for the certification examination of the American Board for Occupational Health Nurses. Tuition \$375; continuing education units (CEUs) will be awarded.

Recognition of Accident Potential in the Workplace Due to Human Factors (NIOSH 512), Nov. 17-18, 1983, and May 16-17, 1984, St. Paul, Minn. This course is for personnel directors or managers, safety specialists, loss/cost-control representatives, engineers, and others with sufficient background to incorporate the training into their current safety responsibilities. It will enable students to identify the principal elements of accident causation and to apply methods for control. The participants will be able to recognize the human factors that help to predict the occurrence of accidents in the workplace. The course will include physiological and psychological factors, motivation and attitudes, group influences on behavior, individual characteristics, organizational impact on work, the manmachine interface, performance of a job analysis, and accident prevention. Approved for 1.5 CEUs through the Midwest Center for Occupational Health and Safety; also awarded 2½ points toward maintenance of certification from ABIH (American Board of Industrial Hygiene); 2 full days of lectures, problem-solving, and discussion. Fee \$225; additional work-study \$35.

Sampling and Evaluating Airborne Asbestos Dust, Nov. 7-10, 1983, St. Paul. This course is for those with a direct responsibility for the sampling and evaluation of asbestos dust samples. Tuition \$440; CEUs awarded.

Training Workshop in Pulmonary Function Testing, Feb. 8-10, 1984, St. Paul. Workshop is for occupational health nurses, physicians, health technicians, and other personnel involved in the performance and interpretation of screening spirometry. In will include didactic lectures and hands-on training in all facets of spirometry; also includes practicum

and written examination. Tuition \$350; nursing contact hours, AMA (American Medical Association) Category I credit; 1.5 maintenance of certification points from ABIH.

Current Concepts in Cardiopulmonary and Occupational Medicine, Mar. 8-10, 1984, St. Paul. Course is designed for primary care and occupational medicine physicians. In this program, now in its 11th year, common problems in cardiopulmonary and occupational medicine will be reviewed. The focus in the first 2 days will be on new approaches in the diagnosis and management of cardiopulmonary problems. The focus of the Saturday (interdisciplinary) session will be on the practical problems in occupational and environmental medicine as they relate to primary care physicians. Tuition \$225; AMA Category I credit; nursing contact hours only for Saturday session.

Comprehensive Industrial Hygiene Review Course, Mar. 19-23, 1984, St. Paul. This course has been designed to help prepare practicing industrial hygienists for the core and comprehensive practice examinations of the American Board of Industrial Hygiene. Tuition \$600; CEUs will be awarded.

Workers' Compensation: A Management Approach to Working Within the System, Apr. 19, 1984, St. Paul. This conference is for occupational health and safety professionals, but others directly involved with workers' compensation are welcome—employers, insurance industry representatives, personnel directors. Tuition \$95; CEUs will be awarded; also, nursing contact hours and ABIH maintenance of certification points.

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 601: 221-3992.

PUBLICATIONS

FEDERAL

The Health of Women. A Bibliography. DHHS Publication No. 83–1004. Free single copy. Scientific and Technical Information Branch, Division of Data Services, National Center for Health Statistics, 3700 East-West Highway, Hyattsville, Md. 20782.

Developing Childhood Injury Prevention Programs. 179 pages. Free single copy. National Center for Education and Maternal and Child Health, 3520 Prospect St., NW., Washington, D.C. 20057.

The Registered Nurse Population. An overview. From national sample of registered nurses, November 1980. DHHS Publication No. HRS-P-OD-83-1. Rockville, Md., January 1983. Free single copy. 55 pages. Office of Data Analysis, and Management, Bureau of Health Professions, DHHS, HRSA, Rm. 8-41, 5600 Fishers Lane, Rockville, Md. 20857.

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.

Annotated Bibliography of Cause-of-Death Validation Studies: 1958–1980. Vital & Health Statistics, Series 2, No. 89. DHHS Publication No. (PHS) 82–1363. September 1982. \$4.75. GPO stock No. 017–022–00799–1.

Utilization of Outpatient Care Resources. DHHS Publication No. (PHS) 83–1240. February 1983. \$5. GPO Stock No. 017–022–00816–5.

Procedures and Questionnaires of the National Medical Care Utilization and Expenditure Survey. Vital and Health Statistics, Series A, Methodological Report No. 1. DHHS Publication No. (PHS) 83–20001. \$4.75. GPO Stock No. 017–022–00812–2.

NON-FEDERAL

Government Institutes, Inc., P.O. Box 1096, Rockville, Md. 20850.

Environmental Statutes, 1983 Edition. 704 pages. \$24.95 softcover; \$34.95 hardcover.

EPA Guidebook. (Updated through May 1983.) 232 pp. \$35.

Human Ecology: A Guide to Information Sources. Edited by Frederick Sargent II. 1983. Health Affairs Information Guide Series, Vol. 10. 293 pages. \$44. Gale Research Co., Detroit, Mich. 48226.

The Idea of Health: Implications for the Nursing Professional. By Judith A. Smith. 1983. \$12.50 paper. Teachers College Press, Columbia University, 1234 Amsterdam Ave., New York, N.Y. 10027.

Health Crisis 2000. By Peter O'Neill. 1983. 4.95 British pounds net—paper; 6.95 British pounds net—cased. William Heinemann Medical Books, Ltd., 23 Bedford Square, London WC1B 3HH.

Ten Guides to Proper Medicine Use. Free single copy. Council on Family Health, 420 Lexington Ave., New York, N.Y. 10017.

Parentmaking: A Practical Handbook for Teaching Parent Classes About Babies and Toddlers. By Annye Rothenberg, Sandra Hitchcock, Mary Lou Harrison, and Melinda Graham. \$19.95 prepaid within United States; California residents, add \$1.30 sales tax. Banster Press, 117 Pinon Drive, Menlo Park. Calif. 94025.

A Guide to the Use of Fluorides for the Prevention of Dental Caries With Alternative Recommendations for Patients With Handicaps. 1981: \$15 single copy; discounts for multiple copies. National Foundation of Dentistry for the Handicapped, 1726 Champa, Suite 442, Denver, Colo. 80202.

State Implementation Plan ("intended primarily for state level health policy personnel"). May 1983. \$6. Institute for Health Planning, 702 North Blackhawk Ave., Madison, Wis. 53705.

DRG [diagnosis related group] Evaluation. Vol. II, Economic and Financial Analysis. Vol. III, Classification and Control of DRG-Related Data. Vol. IV-A, Political Evolution. Vol. 1V-B, The Organizational Impact of Drugs. 1983. \$7.50 per volume, plus 75 cents postage and handling. Health Research and Educational

Trust of New Jersey, Center for Health Affairs, 746–760 Alexander Road, CN-1, Princeton, N.J. 08540– 0706

Open Heart Surgery. A Guidebook for Patients and Families. By Ina L. Yalof. 1983. \$7.95 paper. Random House, 201 East 50th St., New York, N.Y. 10022.

Live or Die. By Thomas H. Ainsworth. 1983. \$16.95 cloth. Macmillan Publishing Company, Inc., 866 Third Ave.. New York 10022.

PUBLIC HEALTH	
REPORTS	

ORDER FORM

PLEASE PRINT OR TYPE

																				TS													F	OR OFFICE U	SE ONLY
-			_)).	ЭU	rc	or a	5/	ng	ie i	cop	y .	DO	nes	TIC,	an	<i>a</i> ≯	D. Y	0 fc	r a	sıng	jie c	:op	y r	ore	ıgn.	. (H5	MH	IA)		Quantit	Y	Charges
ame I)—F	irst	i, Li I	ast I	ı	ı	1		ı	1	ı	1	ı	ı	1	ı	1	ı	ı	1	1	1	1		1	1	1	ı	1	1					
						L				1		L	L	L	L	L	丄	丄	L	丄	L	丄			丄	L	┸		┙	\perp	╝	- 1		Enclosed	
tree	t ac	ldre	988 I																	,														To be mailed	
					l		-			1				1		1	1	1	İ			ļ		1	1		1	1						Subscriptions	İ
omp	an	y n	eme	or	ade	liti	oņ	al a	dd	res	s li	ne																			_		Postage		L
				Į		1	١			ı				1	1		1				1	ı		l	1		1	ı		1	- 1			handling	ļ
ity																		-					Sta	te		ZIF	Co	de							
ļ				ł	l	1	١			ı			l	1	1	1	ł		1								1	ı	-				OPNR_	UPNS	†
or Co	our	try)		•	•																			_				•					Discount	
				l	ı	ı	١		l	1			l		1		1		1		1			1	1	1	1	1	-	1	-			Refund	
inck	he	ck,	C] n	101	ney	0	rde											7S	A'		To Co Co	redi ard	cha t No.	arge	es \$	_ П		-			_		master ch	•
rde														_					<u> </u>				kpir ont				В]			
/lak	e	he	ck	pa	yal	ole	to	S	up	er	int	en	der	nt c	f D	ocı	ıme	ents																	
4 - 11	•-		٠	ori.	.+-	nd	an	+ ^	fΓ	٦~	~ 11	me	nte	- 11	9	Gas	ar.	ma	nt	Deir	+in	g O	ffic	- \A	/acl	aine	.+~.		2	20	140	าว			