



# CONTENTS *continued*

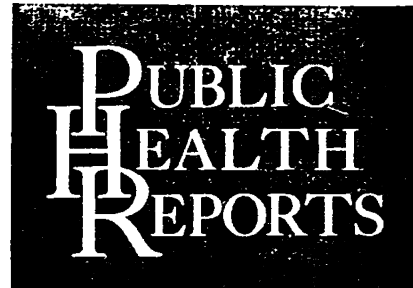
Seasonal study of enteric infections in Alaskan Eskimos . . . <i>H. J. Fournelle, Virginia Rader, and Clarissa Allen</i>	Page 55
Detecting poliovirus in vaccine lots used in Idaho in 1955. <i>Carl M. Eklund, William J. Hadlow, Edgar G. Pickens, and Robert K. Gerloff</i>	60
Highlights of the Social Security Amendments of 1958 . . . . <i>Lucy M. Kramer</i>	67
A migrant labor crisis in Immokalee . . . . . <i>Wilson T. Souder and Joseph Lawrence</i>	77
Sanitary engineering degrees awarded in 1957 . . . . . <i>Frederick K. Erickson and Frank A. Butrico</i>	81
Status of mosquito-borne encephalitis in the United States. <i>Leslie D. Beadle</i>	84
Cancer morbidity in the United States . . . . .	91
Short reports and announcements:	
WHO report on health statistics . . . . .	5
Regular Corps examinations . . . . .	12
Medical education group formed . . . . .	20
Signs and symptoms . . . . .	28
First annual NHS report on illness . . . . .	41
Certain food additives listed as safe by FDA . . . . .	43
International mail pouch . . . . .	44
New clinical neuropharmacology research center . . . . .	54
Research, construction, and training grants . . . . .	59
Social Security Administration seeks eligibles . . . . .	66
National conference on homemaker services . . . . .	80
Division of Public Health Nursing . . . . .	83
Public Health Service traineeships . . . . .	92
Publications . . . . .	93

*Published concurrently with this issue:*

**PUBLIC HEALTH MONOGRAPH NO. 56 . . . Morbidity from cancer in the United States.**

*Harold F. Dorn and Sidney J. Cutler*

207 pages. A summary and information on availability appear on pages 91-92.



**MANAGING DIRECTOR**

WILLIAM H. STEWART, M.D.  
*Chief, Division of Public Health Methods*

**BOARD OF EDITORS**

EDWARD G. MCGAVRAN, M.D., M.P.H.  
*Chairman*

FRANCIS A. ARNOLD, JR., D.D.S.  
HAROLD D. CHOPE, M.D., DR.P.H.

MANDEL E. COHEN, M.D.

CARL C. DAUER, M.D.

W. PALMER DEARING, M.D.

J. STEWART HUNTER, M.A.

CHARLES V. KIDD, PH.D.

ALEXANDER D. LANGMUIR, M.D., M.P.H.

KARL M. MASON, B.S.S.E., M.P.H.

RUTH SLEEPER, R.N., M.A.

WILSON T. SOWDER, M.D., M.P.H.

MARY SWITZER

FRANKLIN H. TOP, M.D., M.P.H.

**STAFF**

Marcus Rosenblum *Executive Editor*

Winona Carson *Managing Editor*

Martha Seaman *Asst. Managing Editor*

*Address correspondence to Executive Editor*

*Public Health Reports*, published since 1878 under authority of an act of Congress of April 29 of that year, is issued monthly by the Public Health Service pursuant to the following authority of law: United States Code, title 42, sections 241, 245, 247; title 44, section 220. Use of funds for printing this publication approved by the Director of the Bureau of the Budget, August 24, 1957.

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

ARTHUR S. FLEMMING, *Secretary*

PUBLIC HEALTH SERVICE

LEROY E. BURNEY, *Surgeon General*

# ECHOES from Public Health Reports

## ENDEMIC FLUOROSIS AND ITS RELATION TO DENTAL CARIES<sup>1</sup>

By H. TRENDLEY DEAN, *Dental Surgeon, United States Public Health Service*

### INTRODUCTION

The first thorough study of mottled enamel, that of Black (1) and McKay (2) at Colorado Springs and including the Pike's Peak watershed, reported as early as 1916 that, in regard to caries, the teeth of these Colorado children com-

munities where endemic I wrote of the difficulty of teeth and stated that, tho than in non-endemic areas teeth are eventually lost be in the hypoplastic tooth str

Workers in other countri aspects of this phenomenon. western part of the Japan endemic areas in the Prefe shima, and Aichi, 12 of the In an English abstract of h that "It is also remarkabl comparatively small amon The number of observations is not stated in the abstract

Ainsworth has comment caries among children in t bridge, Essex County, Eng the Committee for the Inve ical Research Council, this 4,000 children in the public

RELATION BETWEEN THE AMOUNT OF DENTAL CARIES (PERMANENT TEETH) OBSERVED IN 7257 SELECTED 12-14 YEAR OLD WHITE SCHOOL CHILDREN OF 21 CITIES OF 4 STATES AND THE FLUORIDE (F) CONTENT OF PUBLIC WATER SUPPLY

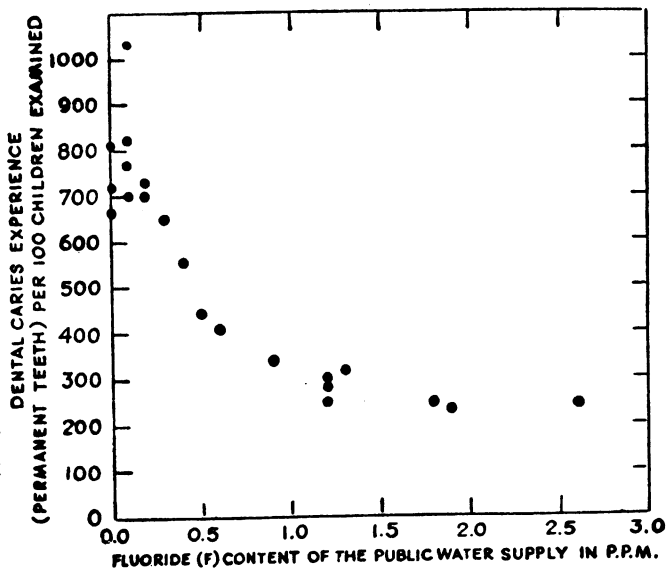


FIGURE 2

AUGUST 19, 1938, pp. 1443-1452

After verifying the relationship between the natural occurrence of fluorides in drinking water and the reduction in dental caries, Dr. H. Trendley Dean concluded that the "possibility of controlling dental caries through the domestic water supply warrants thorough epidemiological-chemical study." Figure 2 in an article that followed (August 7, 1942, pp. 1155-1179) provides the basis for present-day fluoridation.