

GEOGRAPHICAL AND SOCIAL VARIATIONS IN THE INCIDENCE OF NOTIFIED POLIOMYELITIS

BY

B. BENJAMIN and W. P. D. LOGAN

From the General Register Office, London

The natural history of poliomyelitis is not yet completely written. Although the clinical features of this disease have been recognized for more than a century, problems of management still give rise to controversy, and in spite of recurring outbreaks of widespread and dramatic character many enigmatic features of epidemiology remain to be explained. The outbreaks come without presage, reaching dimensions which cannot be forecast, and burning themselves out almost completely uncontrolled. While in the laboratory the search for prophylactic measures continues, there remains in the field a need for that combination of observation and hypothesis which may add to the accumulated epidemiological knowledge and consequently may add if even slightly to the state of preparedness of local health services. To this pattern, and in succession to an earlier review (Logan, 1952), the present study belongs.

If it were found that poliomyelitis reached epidemic prevalence invariably after a particular series of movements of attack rates or that the disease selected particular sections of the community or parts of the country, this would enable us to predict the commencement and spread of outbreaks, thus enabling clinical services to be mobilized on an adequate scale.

UNEVEN PREVALENCE IN DIFFERENT AREAS

It is known that in individual outbreaks, even in urban areas, some localities may escape epidemic prevalence, for reasons which are not apparent, and also that areas which suffer high incidence in one epidemic may have a lower than average incidence in the next, perhaps by some carry-over of the herd immunity gained in the earlier outbreak (Breen and Benjamin, 1950). These two effects, independent

geographical variation and correlation between one local outbreak and the next, operate together; jointly they produce in any one outbreak considerable unevenness in geographical spread. In order to remove this second effect, carry-over of a higher level of immunity from the close of one epidemic to the onset of the next, it is necessary to average the prevalence over several epidemics. The question then remains whether the residual geographical variation in epidemicity is a matter of chance and a feature which will also disappear over a further period as individual localities experience their proportionate share of the total prevalence in due course.

Table I (overleaf) shows the result of averaging the years 1947-50: three years of severe epidemic prevalence and one year (1948) with comparatively few cases. In this Table the actual uncorrected* notifications are compared with those "expected" if the England and Wales total notifications were distributed in proportion to the local population, i.e. if every area suffered the same attack rate. Looking first at each region as a whole, we find that prevalence was significantly† below average in the Northern, North Western, and Eastern Regions, and in Wales, and that it was significantly above average in the Midland, London and South Eastern, Southern, and South Western Regions.

In the remaining regions the differences between actual and expected notifications were not statistically significant. The significant differences are too large to be accounted for by the fact that (to be consistent with Table V) uncorrected notifications

*Uncorrected notifications are the original notifications made to local Medical Officers of Health and transmitted to the General Register Office weekly; corrected notifications are the final notifications returned by the Medical Officer of Health quarterly, after taking account of corrections of diagnoses during the period.

†The criterion has been twice the standard error of the "expected".

Epidemiology Of Poliomyelitis Journal

SA Adler



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The Epidemiology of Poliomyelitis in Northeastern Wisconsin Allan Filek,1941 *Poliomyelitis* Matthew Smallman-Raynor,Andrew David Cliff,2006 For parents few infections scored higher than poliomyelitis on the dread factor from the early years of the twentieth century as each successive wave of the disease outdid its predecessor in the number of children it crippled and killed But from the 1950s this picture abruptly changed when preventive vaccines were developed which have brought the disease to the edge of global eradication Part I Epidemic Emergence 1881 1920 looks at the transition from endemic to epidemic poliomyelitis in Europe and the United States Part II Global Expansion 1921 55 covers the pre vaccination period of epidemic poliomyelitis at world continental and island scales Part III Global Retreat 1955 88 focuses upon the control of poliomyelitis by mass vaccination campaigns Part IV Global Eradication concludes the book by focusing upon the road to eradication to which the Forty first World Health Assembly committed in 1988 And so at the beginning of a new millennium poliomyelitis looks set to be the first disease since smallpox in 1979 to be eradicated by direct human intervention with the interruption of wild poliovirus transmission expected in 2005 The evolution of poliomyelitis to global epidemiological significance from the 1920s marks it out as one of the world s major emergent infections of the twentieth century What causes diseases to wax and wane in time and space is a theme of contemporary scientific interest as we seek to understand the appearance of new conditions such as Ebola fever Legionnaires disease and HIV and this book contributes to our comprehension of likely causes *Journal of Microbiology, Epidemiology and Immunobiology* ,1961

Epidemiology for the Advanced Practice Nurse Demetrius Porche,2022-01-17 Written by nurses for nurses this graduate level text disseminates the core principles of epidemiology within a population health framework and provides practical knowledge nurses can use to analyze and improve healthcare in the community Informed by the evolution of epidemiological science resulting from the Covid 19 pandemic this book demonstrates how epidemiology can have a profound impact on health It showcases a variety of settings and epidemiological roles demonstrating the importance and practicality of this discipline Clear and concise this text explains the basics of population health followed by epidemiology concepts and designs It is distinguished by its application based case studies analytical tools of epidemiology and calculations which foster skill development and necessary familiarity of the subject Also included is an important Biostatistics Primer relevant content from Healthy People 2030 and an Epidemiology in Practice section focusing on examples from different epidemiology arenas Key Features Includes application based cases tools and calculations throughout to help students develop practical epidemiologic skills Provides background and understanding of health disparities and determinants of health Includes relevant information from Healthy People 2030 Includes discussion questions learning objectives terminology review tables and figures in each chapter Delivers up to date information on epidemiology in the time of Covid 19 Includes access to an Instructor s Manual with additional case studies **The Nebraska State Medical Journal** ,1928 *Medical Journal of*

Australia, 1914 **Sickness and Health in America** Judith Walzer Leavitt, Ronald L. Numbers, 1997 Adds 21 new essays and drops some that appeared in the 1984 edition first in 1978 to reflect recent scholarship and changes in orientation by historians Adds entirely new clusters on sickness and health early American medicine therapeutics the art of medicine and public health and personal hygiene Other discussions are updated to reflect such phenomena as the growing mortality from HIV homicide and suicide No index Annotation copyrighted by Book News Inc Portland OR **The Boston Medical and Surgical Journal**, 1913 *American Journal of Epidemiology*, 1947 *Recent Developments in Microbiology, Biotechnology and Pharmaceutical Sciences* B. Sundaravadivazhagan, Sekar Mohan, Balakrishnaraja Rengaraju, 2025-05-06

The Conference brought together innovative academics and industrial experts in the field of Medical Biological and Pharmaceutical Sciences to a common forum The primary goal of the conference was to promote research and developmental activities in Medical Biological and Pharmaceutical Sciences Another goal was to promote scientific information interchange between researchers developers engineers students and practitioners working in and around the world **Viral Pathogenesis and Immunity** Neal Nathanson, 2007-04-04 Based on the highly successful reference work *Viral Pathogenesis* published in 1997 this concise economical version can be used both as an introductory text or for self education by medical students and biologists alike This latest edition provides a completely revised overview of the subject with new chapters on innate immunity emerging viral diseases and antiviral therapy in a format that is easy to understand without continually referring to additional information Used by the author in his graduate classes at the University of Pennsylvania it sets forth the essential principles and discusses the details of how the immune system responds to viral invasion including the treatment and prevention of infection Illustrated by pertinent examples it is one of the only books devoted exclusively to this topic Offers almost a 20% expansion over the first edition Focuses specifically on viral pathogenesis unlike other texts where only a few chapters are devoted to the topic Neal Nathanson is one of the primary authorities in the field and has authored chapters on viral pathogenesis in two of the most well known virology and microbiology titles Field's *Virology* and Topley and Wilson's *Microbiology* Now in four color throughout **The Polio Years in Texas** Heather Green Wooten, 2009-10-25 From the 1930s to the 1950s in response to the rising epidemic of paralytic poliomyelitis polio Texas researchers led a wave of discoveries in virology rehabilitative therapies and the modern intensive care unit that transformed the field nationally The disease threatened the lives of children and adults in the United States especially in the South arousing the same kind of fear more recently associated with AIDS and other dread diseases Houston and Harris County Texas had the second highest rate of infection in the nation and the rest of the Texas Gulf Coast was particularly hard hit by this debilitating illness At the time little was known but eventually the medical responses to polio changed the medical landscape forever Polio also had a sweeping cultural and societal effect It engendered fearful responses from parents trying to keep children safe from its ravages and an all out public information blitz aimed at helping a frightened population protect itself The disease exacted a

very real toll on the families friends healthcare resources and social fabric of those who contracted the disease and endured its acute convalescent and rehabilitation phases In *The Polio Years in Texas* Heather Green Wooten draws on extensive archival research as well as interviews conducted over a five year period with Texas polio survivors and their families This is a detailed and intensely human account of not only the epidemics that swept Texas during the polio years but also of the continuing aftermath of the disease for those who are still living with its effects Public health and medical professionals historians and interested general readers will derive deep and lasting benefits from reading *The Polio Years in Texas*

Journal of the American Public Health Association ,1913 **Encyclopedia of Plague and Pestilence, Fourth Edition** George Childs Kohn,2021-11-01 Praise for the previous edition the entries provide vivid historical detail No other work approaches this topic in such a brief encyclopedic manner a useful addition to any academic reference collection Choice a useful resource for high school and public libraries Booklist does an excellent job a conscious effort to put a human perspective on pestilence Given the climate of the times and the concerns about bioterrorism this title would be useful for a variety of subject areas Recommended The Book Report Tracing the history of infectious diseases from the Philistine plague of 11th century BCE to the COVID 19 pandemic *Encyclopedia of Plague and Pestilence Fourth Edition* is a comprehensive A to Z reference offering international coverage of this timely and fascinating subject This updated volume provides concise descriptions of more than 740 epidemics listed alphabetically by location of the outbreak Each detailed entry includes when and where a particular epidemic began how and why it happened who it affected how it spread and ran its course and its outcome and significance Full color and black and white photographs maps appendixes a bibliography and a chronology are also included New and updated coverage includes Cholera Cocoliztli COVID 19 Ebola H1N1 Hepatitis A HIV AIDS Legionnaires Disease Malaria MERS Rift Valley fever Typhoid Yellow Fever Zika **Journal of the American Medical Association** ,1917 **Public Health Reports** ,1938 *Wade Hampton Frost, Pioneer Epidemiologist, 1880-1938* Thomas M. Daniel,2004 Wade Hampton Frost was the first Professor of Epidemiology at Johns Hopkins University in the first Department of Epidemiology in the United States A Virginian and a graduate of the University of Virginia Frost began his remarkable career with two decades of service in the United States Public Health Service He investigated epidemics of yellow fever typhoid polio streptococcal sore throat meningitis and influenza His greatest contributions during this part of his career were the recognition that mild and asymptomatic childhood polio produced life long immunity and the development of methods for tracking influenza epidemics He was recruited to Johns Hopkins in 1919 where as a professor at the School of Hygiene and Public Health he trained many of the future leaders of American public health programs He made substantial contributions to epidemiologic methodology including developing the concept of an index case during investigations of tuberculosis in Tennessee the use of life table methods for estimating secondary attack rates the use of age cohorts for longitudinal studies and in collaboration with Lowell Reed the first mathematical expression of the epidemic curve Thomas M

Daniel's biography tells the story of Frost's life and work. Drawing of Frost's personal papers and recorded interviews with his colleagues deposited in the Frost Archives at the University of Virginia Medical Center as well as material from the Fauquier County Heritage Society and Johns Hopkins University. Daniel recounts the story of Frost's life and provides many insights into the personal characteristics of his subject. Daniel also reviews Frost's work examining his published papers and archived teaching notes to elucidate the scope of and manner in which Frost made his seminal contributions to epidemiology and public health. George Comstock Emeritus Centennial Alumni Professor of Epidemiology at Johns Hopkins has provided an introduction. Thomas M. Daniel is Professor Emeritus of Medicine.

Transactions of the Section on Preventive Medicine and Public Health of the American Medical Association at the ... Annual Session American Medical Association. Section on Preventive Medicine and Public Health, 1910 *British Medical Journal*, 1927 Charity Service Reports, Cook County, Illinois Cook County (Ill.). Board of County Commissioners, 1918

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