

Centers for Disease Control and Prevention  
Epidemiology Programs Office  
Case Studies in Applied Epidemiology  
Vol. 2013-2014

## Oswego – An Outbreak of Gastrointestinal Illness Following a Church Supper

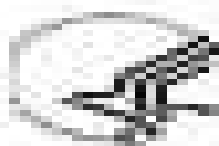
Student's Choice

### Learning Objectives

After completing this case study, the participant should be able to:

- 1. Define and define cluster, outbreak, and epidemic.
- 2. List the descriptive characteristics of an outbreak.
- 3. Define attack rate and describe the uses of epidemiologic rates.
- 4. Calculate and compare attack rates across two or more groups or persons.
- 5. Recognize the importance of outbreaks that are apparently isolated.

This case study is based on an outbreak described by the New York State Health Department in 1968. The outbreak was characterized by a cluster of cases of gastroenteritis, which was defined as a group of cases of gastroenteritis occurring in a community or institution. The outbreak was characterized by a cluster of cases of gastroenteritis, which was defined as a group of cases of gastroenteritis occurring in a community or institution. The outbreak was characterized by a cluster of cases of gastroenteritis, which was defined as a group of cases of gastroenteritis occurring in a community or institution.



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# Oswego Case Instructor Guide

**R Bogdan**



## Oswego Case Instructor Guide:

*Intermediate Epidemiology* Manya Magnus, 2014-09-15 *Intermediate Epidemiology Methods That Matter* provides masters level public health students with a solid foundation in the epidemiologic methods necessary for implementing successful public health programs This book stands apart from other intermediate texts in that it focuses on conceptual learning of basic methods without relying on extensive jargon The book uniquely uses a self learning approach with exercises embedded in each page to reinforce concepts and application The book creates a bridge from student to professional with lively descriptions of career paths for the MPH level epidemiologist Complete chapters on program evaluation and implementation and analysis of studies are also provided Key Features Examines the methodological skill set unique to epidemiology at an intermediate level Provides practice problems case studies discussion sections and datasets in which to practice the methods learned Offers boxed examples from sources such as peer reviewed literature governmental resources and lay sources *Resources in Education* ,1986-10

**Instructor's Manual for Organizational Policy and Strategic Management** James M. Higgins, 1979 **Monthly Catalog of United States Government Publications** ,1983

**Monthly Catalogue, United States Public Documents** ,1983 Instructor ,1970-08 **Teacher** ,1975

Education Through Woodworking, a Series of Prize Winning Essays American wood working machinery company.

Educational Department, 1924 **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office** Library of Congress. Copyright Office, 1976 **Law, Business, and Society**

Tony McAdams, James Freeman, Laura Pincus Hartman, 2001 The text takes an interdisciplinary approach utilizing elements of law political economy international business ethics social responsibility and management The authors primary goal is to produce a compelling holistic picture of the concepts by giving extensive attention to readings provocative quotes and factual details Students learn not merely the law but the law in context It includes many law cases and dozens of articles There is one or more Internet exercise per chapter which requires research on the Internet to find the answers *School Shop* ,1967

*Programming with Java* Barry Holmes, 1998 **Journal of Education** ,1882 **Normal Instructor** ,1915

**Stenographer and Phonographic World** ,1885 *The Technology Teacher* ,1992 **The United States Army and Navy Journal and Gazette of the Regular and Volunteer Forces** ,1876 **A Handbook of American Music and Musicians** F. O. Jones, 1886

**Outlook** Alfred Emanuel Smith, Francis Walton, 1874 **Books and Pamphlets, Including Serials and Contributions to Periodicals** Library of Congress. Copyright Office, 1975

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produce a salt and water

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web donor whereas a base generically rep resented by b is a proton acceptor when acids and bases combine they swap a  
proton ha b a hb strong acids e g sulfuric acid have a very pronounced ten dency to transfer a proton to a base whereas weak  
acids

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completely reacts with the acid and the solution in the erlenmeyer flask continues to be acidic but at the equivalence point

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web answer based on the data the strong acid strong base combination of hydrochloric acid and sodium hydroxide had the

neutral pH at the equivalence point being 7 this result is expected because a combination of strong acids and strong bases should result in a neutral at the equivalence point

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web 1 approximately 3 g of hydrated oxalic acid  $\text{H}_2\text{C}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$  was weighted to the nearest 0.01 g in a 50 mL beaker 2 about 30 mL of distilled water was added to the beaker to dissolve the oxalic acid 3 the solution was transferred into 250 mL volumetric flask the beaker was rinsed and its contents were poured into the flask

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web solution a titrant volume 0 mL the solution pH is due to the acid ionization of HCl because this is a strong acid the ionization is complete and the hydronium ion molarity is 0.100 M the pH of the solution is then  $\text{pH} = -\log 0.100 = 1.000$   $\text{pH} = -\log 0$

100 1 000 b titrant volume 12 50 ml

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