

The following is an example of an actual investigation that occurred several decades ago. It is a prime example of how to perform an outbreak investigation with little to no lab facilities available to you.

PART I – Background

On April 19, 1940, the local health officer in the village of Lycoming, Oswego County, New York, reported the occurrence of an outbreak of acute gastrointestinal illness to the District Health Officer in Syracuse. Dr. A. M. Rubin, epidemiologist-in-training, was assigned to conduct an investigation. When Dr. Rubin arrived in the field, he learned from the health officer that all persons known to be ill had attended a church supper held on the previous evening, April 18. Family members who did not attend the church supper did not become ill. Accordingly, Dr. Rubin focused the investigation on the supper. He completed interviews with 75 of the 80 persons known to have attended, collecting information about the occurrence and time of onset of symptoms, and foods consumed. Of the 75 persons interviewed, 46 persons reported gastrointestinal illness.

Question 1: Would you call this an epidemic or an outbreak?

What is the definition of each?

1. epidemic –

2. outbreak -

Epidemic - when a disease is increasing beyond what is expected. Often referred to as an **outbreak** but an outbreak is usually on a smaller scale and limited to one locale.

Question 2: Review the steps of an outbreak investigation. *(these have been given to you)*

1. Identify investigation team and resources
2. Establish the existence of an outbreak
3. Verify the diagnosis
4. Construct a working case definition
5. Case Finding: find cases systematically and develop line list
6. Perform descriptive epidemiology and develop hypotheses
7. Evaluate hypotheses and perform additional studies (as necessary)
8. Implement control measures
9. Communicate findings
10. Maintain surveillance

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Principles of Epidemiology Workbook: Exercises and Activities Ray M. Merrill, 2010-09-15 This workbook was written for students of epidemiology and serves as a supplement to any one of several introductory text books in epidemiology Each chapter is divided into an introduction a series of questions and detailed responses and a series of Homework questions At the end of each chapter is a table with a list of selected epidemiology text books with accompanying chapters in those books that the workbook chapter may supplement The general learning outcomes LOs for this workbook are 1 Become familiar with basic concepts and definitions commonly used in epidemiology 2 Define a public health problem 3 Identify appropriate uses and limitations of data and research design strategies for solving public health problems 4 Make relevant inferences from quantitative and qualitative data 5 Distinguish between statistical association and cause effect relationships 6 Measure and describe patterns of disease incidence prevalence and mortality 7 Identify environmental factors and behaviors associated with health related states or events 8 Be familiar with the steps for investigating disease outbreaks 9 Identify calculate and interpret common indices used in identifying the health status 10 Evaluate program effectiveness 11 Critically assess epidemiological research 12 Be able to communicate health findings Each chapter features 10 20 mastery check questions with detailed answers 5 optional problems A case study A multiple choice short answer quiz Answers to the cases and quizzes are provided as part of the online instructor resource package

The CDC Field Epidemiology Manual Sonja A.

Rasmussen, Richard A. Goodman, 2018-11-20 A NEW AND ESSENTIAL RESOURCE FOR THE PRACTICE OF EPIDEMIOLOGY AND PUBLIC HEALTH The CDC Field Epidemiology Manual is a definitive guide to investigating acute public health events on the ground and in real time Assembled and written by experts from the Centers for Disease Control and Prevention as well as other leading public health agencies it offers current and field tested guidance for every stage of an outbreak investigation from identification to intervention and other core considerations along the way Modeled after Michael Gregg s seminal book Field Epidemiology this CDC manual ushers investigators through the core elements of field work including many of the challenges inherent to outbreaks working with multiple state and federal agencies or multinational organizations legal considerations and effective utilization of an incident management approach Additional coverage includes Updated guidance for new tools in field investigations including the latest technologies for data collection and incorporating data from geographic information systems GIS Tips for investigations in unique settings including healthcare and community congregate sites Advice for responding to different types of outbreaks including acute enteric disease suspected biologic or toxic agents and outbreaks of violence suicide and other forms of injury For the ever changing public health landscape The CDC Field Epidemiology Manual offers a new authoritative resource for effective outbreak response to acute and emerging threats Oxford University Press will donate a portion of the proceeds from this book to the CDC Foundation an independent nonprofit and the sole entity created by Congress to mobilize philanthropic and private sector resources to support the

Centers for Disease Control and Prevention's critical health protection work To learn more about the CDC Foundation visit www.cdcfoundation.org *Principles of Epidemiology Home Study Course 3030-G*, 1980 Don't Panic! Maria Quigley, Mark Myatt, 1996-10-01 *Public Health Epidemiologist* National Learning Corporation, 2014 The Public Health Epidemiologist Passbook R prepares you for your test by allowing you to take practice exams in the subjects you need to study It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam including but not limited to Incidence control and prevention of infectious diseases Methods of control Environmental and epidemiological control measures and more

Unveiling the Power of Verbal Art: An Psychological Sojourn through **Cdc Epidemiology Answer Guide Oswego Outbreak**

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