1: AN INTRODUCTION TO THE PRINCIPLES OF DISEASE - Europe PMC Article - Europe PMC

An introduction to the principles of disease [J. B Walter] on www.enganchecubano.com *FREE* shipping on qualifying offers.

A Glossary that defines the major terms used in the course is also provided at the end of Lesson Six. Supplementary Materials In addition to the course materials, students may want to use the following: A calculator with square root and logarithmic functions for some of the exercises. A copy of Heymann, DL, ed. Control of Communicable Diseases Manual, 18th edition, , for reference. Available from the American Public Health Association To get the most out of this course, establish a regular time and method of study. Research has shown that these factors greatly influence learning ability. Each lesson in the course consists of reading, exercises, and a self-assessment quiz. Reading Assignments Complete the assigned reading before attempting to answer the self-assessment questions. Read thoroughly and re-read for understanding as necessary. A casual reading may result in missing useful information which supports main themes. Assignments are designed to cover one or two major subject areas. However, as you progress, it is often necessary to combine previous learning to accomplish new skills. A review of previous lessons may be necessary. Frequent visits to the Glossary may also be useful. Exercises Exercises are included within each lesson to help you apply the lesson content. Some exercises may be more applicable to your workplace and background than others. You should review the answers to all exercises since the answers are very detailed. Answers to the exercises can be found at the end of each lesson. Your answers to these exercises are valuable study guides for the final examination. Self-Assessment Quizzes After completing the reading assignment, answer the self-assessment quizzes before continuing to the next lesson. Answers to the quizzes can be found at the end of the lesson. After passing all six lesson quizzes, you should be prepared for the final examination. Self-assessment quizzes are open book. Do not guess at the answer. Tips for Answering Questions Carefully read the question. One choice may be a correct statement, but another choice may be more nearly correct or complete for the question that is asked. Final Examination and Course Evaluation We recommend that you thoroughly review the questions included with each lesson. There is no final exam. Course Evaluation To do this, go to https: You will then need to register for the course SS and complete the course evaluation online. Your comments are valuable to us and will help to revise the self-study course in the future. SS or SS when ordering.

2: Principles of Epidemiology

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Purposes of Communicable Disease Investigation and General Principles of Preventing Transmission Introduction These guidelines have been written to assist public health staff engaged in investigating communicable diseases. Their intent is to provide basic, practical, up-to-date and easy-to-understand information which has been coalesced and interpreted from a variety of sources. These guidelines have been written as carefully as possible to balance the amount of work necessary to follow up a reported case against the probability of controlling spread of the disease. Only certain diseases are included in these guidelines. This is based upon their frequency and complexity. For further information about these and other diseases, consult Control of Communicable Diseases in Man. Remember, these are only guidelines. All situations differ and best judgment should prevail. Some situations require a more stringent approach. Some require a less stringent approach. Purposes of Communicable Disease Investigation Nothing is less self-fulfilling than going through the motions of a task without understanding its purpose. When investigating a report of communicable disease, always keep in mind the purposes are to: Prevent Transmission from Cases to Contacts: A full discussion of this topic begins below. Identify the Source of the Disease: The source may be in the environment, a food, or another person. Its identification can lead to control. Each reported case should be regarded as a sentinel health event. It is important to question the reported case about others who have been exposed or who have similar symptoms. Information collected when investigating a reported disease can be examined on a state or regional basis to identify outbreaks or trends and to formulate policy. This information is collected on standardized forms and often is sent to the Centers for Disease Control and Prevention for surveillance on a national basis. Ensure that the Patient has Adequate Medical Supervision: Our responsibilities include making sure the patient is well cared for and understands the consequences of his illness. Where medical care is inadequate, appropriate referrals should be made. General Principles of Preventing Transmission This section describes how cases and contacts can be managed to prevent transmission. Case Management Verify the Diagnosis: It is very important to promptly establish or verify the etiologic agent responsible for the disease. For many diseases reported by physicians or others, there are often little or no laboratory data initially available to verify the diagnosis. Since control efforts depend on the exact diagnosis, it is important to: Determine if the Case is Infectious or Possibly Infectious: If the case is still infectious, you must identify available measures for preventing transmission. For example, hepatitis A is no longer infectious after 1 week of the onset of symptoms. Strep throat is no longer infectious after 24 hours of treatment. Which method you use depends upon the disease the period of communicability for some diseases is precise; for others it is not precise, the quality of information about the case e. In practice, because of delays in diagnosis and reporting, many cases will have passed the infectious stage by the time they are reported. You may need to contact the physician to fill in information about the case, determine results of laboratory tests, or arrange for tests. Also ask about similar cases for which a report may be pending. Drugs antimicrobials are the most important means to shorten the duration of infectivity for many diseases. Usually, decisions about drug treatment will be made by the time you investigate. However, sometimes it may be necessary to work with the patient and physician to ensure the patient is appropriately treated. Put into Effect Practices for Preventing Transmission: These practices depend upon the disease and other circumstances. If the disease warrants, the case may have to employ these practices while ill and for a period after recovery during which s he is still infectious: Also, there may be a need for changes if individual is a foodhandler. What is the frequency, duration and dosage of the exposure? Often, these characteristics can only be described vaguely. It is usually reasonable to assume persons living in the same household had opportunity for exposure. Is the contact susceptible? Has the person been vaccinated, or previously infected? Is there evidence of a compromised immune system surgery, steroids, etc. Does the disease result in immunity or are people generally susceptible? Determine if the contact is ill or infected: Look for clinical signs or symptoms. It is

important to know if the contact is in the early stages of an illness or asymptomatic infected, you must rely on the laboratory. Prevent illness in susceptibles: It may be useful for you to think of contacts in two ways: Those who have been exposed, and those who might yet be exposed, either to the original source or to a contact who subsequently acquires an infection. The choice of the preventive measure depends upon the disease. Rapid identification of susceptibles is important. Remember, vaccines usually require a time period greater than one incubation period to develop antibody. Therefore, they rarely prevent illness in the first generation of contacts. They can, however prevent illness in later generations. Immune globulins must be given within a few days of contact to prevent or modify an infection, but they provide only short-term protection. Antimicrobials are particularly important for contacts exposed to strep, tuberculosis and meningitis. Limit the activities of exposed persons -- sometimes it may be prudent to recommend cessation of contact between the contact and the source. Another example is quarantining exposed persons to protect others not yet exposed. Conduct personal surveillance of the exposed person -- it may be important to call an exposed person by the end of the maximum incubation period to see if s he is ill e. The intensity of the surveillance depends upon the importance attached to preventing transmission from that person. General Guidelines for Outbreak Investigations The first action of a health agency when it receives a report of a case or a cluster of cases of a disease is to investigate. The investigation may be anything from a limited phone call to confirm reported information, or it may be as extensive as a field investigation coordinating the efforts of many people to determine the extent and cause of a large outbreak. Outbreaks may be detected when routine, timely analysis of surveillance data reveals an increase in reported cases or an unusual clustering of cases. In South Carolina, for example, the weekly tabulation of disease reports by county is a useful way to monitor trends, evaluate geographical distribution throughout the state and identify possible clusters. Why Do We Investigate Outbreaks? The health agency has a responsibility to institute control and prevention measures. Outbreak investigations may be considered as opportunities to study disease events and are training exercises for those conducting the investigation. If cases are continuing to occur, the goal may be to prevent additional cases. If an outbreak appears to be almost over, the goal may be to prevent outbreaks in the future. The objective here would be to identify factors which contributed to the outbreak to implement measures that would prevent serious outbreaks in the future. Other concerns like public relations, political concerns and legal obligations may also need to be considered. Steps in the Investigation Prepare for field work - talk to others with experience, review the literature. Establish the existence of an outbreak - An outbreak or epidemic is the occurrence of more cases of disease than expected in a given area or among a specific group of people over a particular period of time. A cluster is an aggregation of cases in a given area over a particular period without regard to whether the number of cases is more than expected. Defining an epidemic requires that one determine what the expected number of cases would be usually from existing surveillance data. Some reasons for a "false" epidemic may be reports of sporadic cases of unrelated cases of the same disease, reports of similar cases but unrelated diseases, or changes in surveillance or reporting procedures. Verify the diagnosis -Collect clinical information, contact the diagnosing physician, confirm results of laboratory tests done. Define and identify cases - Establish a case definition for the disease using a standard set of criteria for deciding whether an individual should be classified as having the health condition of interest. Perform descriptive epidemiology - Collect information to characterize an outbreak by time, place and person. Develop hypotheses - After collecting some of the initial information characterizing the outbreak, one should be able to formulate a hypothesis that addresses the source of the agent, the mode and vehicle or vector of transmission, and the exposures that caused the disease. Evaluate hypotheses - Compare your hypothesis with the established facts. Is it plausible and consistent? If not, the hypothesis should be revised. Implement control and prevention measures - This is the primary goal of most outbreak investigations. Although mentioned far down on the list, prevention and control measures should be implemented as soon as possible in an outbreak setting. This may be accomplished by destroying contaminated foods, removing an infected foodhandler from the job, or immunizing and providing prophylaxis to a population at risk. Communicate findings - An oral briefing or a written report are always useful to summarize an investigation. Formally presenting recommendations provides a blueprint for action and may serve in the health agency as a reference if the health agency

encounters a similar situation in the future. Data Collection Guidelines Line listings. Traditionally we collect data on a standard case report form or questionnaire. A separate sheet of information from each person interviewed often makes synthesizing the data difficult.

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The same is true in characterizing epidemiologic events, whether it be an outbreak of norovirus among cruise ship passengers or the use of mammograms to detect early breast cancer. The word epidemiology comes from the Greek words epi, meaning on or upon, demos, meaning people, and logos, meaning the study of. In other words, the word epidemiology has its roots in the study of what befalls a population. Many definitions have been proposed, but the following definition captures the underlying principles and public health spirit of epidemiology: Epidemiology is the study of the distribution and determinants of health-related states or events in specified populations, and the application of this study to the control of health problems 1. Key terms in this definition reflect some of the important principles of epidemiology. Study Epidemiology is a scientific discipline with sound methods of scientific inquiry at its foundation. Epidemiology is data-driven and relies on a systematic and unbiased approach to the collection, analysis, and interpretation of data. Basic epidemiologic methods tend to rely on careful observation and use of valid comparison groups to assess whether what was observed, such as the number of cases of disease in a particular area during a particular time period or the frequency of an exposure among persons with disease, differs from what might be expected. However, epidemiology also draws on methods from other scientific fields, including biostatistics and informatics, with biologic, economic, social, and behavioral sciences. In fact, epidemiology is often described as the basic science of public health, and for good reason. First, epidemiology is a quantitative discipline that relies on a working knowledge of probability, statistics, and sound research methods. Second, epidemiology is a method of causal reasoning based on developing and testing hypotheses grounded in such scientific fields as biology, behavioral sciences, physics, and ergonomics to explain health-related behaviors, states, and events. However, epidemiology is not just a research activity but an integral component of public health, providing the foundation for directing practical and appropriate public health action based on this science and causal reasoning. Frequency refers not only to the number of health events such as the number of cases of meningitis or diabetes in a population, but also to the relationship of that number to the size of the population. The resulting rate allows epidemiologists to compare disease occurrence across different populations. Pattern refers to the occurrence of health-related events by time, place, and person. Time patterns may be annual, seasonal, weekly, daily, hourly, weekday versus weekend, or any other breakdown of time that may influence disease or injury occurrence. Personal characteristics include demographic factors which may be related to risk of illness, injury, or disability such as age, sex, marital status, and socioeconomic status, as well as behaviors and environmental exposures. Characterizing health events by time, place, and person are activities of descriptive epidemiology, discussed in more detail later in this lesson. Epidemiology is also used to search for determinants, which are the causes and other factors that influence the occurrence of disease and other health-related events. Epidemiologists assume that illness does not occur randomly in a population, but happens only when the right accumulation of risk factors or determinants exists in an individual. They assess whether groups with different rates of disease differ in their demographic characteristics, genetic or immunologic make-up, behaviors, environmental exposures, or other so-called potential risk factors. Ideally, the findings provide sufficient evidence to direct prompt and effective public health control and prevention measures. Health-related states or events Epidemiology was originally focused exclusively on epidemics of communicable diseases 3 but was subsequently expanded to address endemic communicable diseases and non-communicable infectious diseases. By the middle of the 20th Century, additional epidemiologic methods had been developed and applied to chronic diseases, injuries, birth defects, maternal-child health, occupational health, and environmental health. Then epidemiologists began to look at behaviors related to health and well-being, such as amount of exercise and seat belt use. Now, with the recent explosion in molecular methods, epidemiologists can make important strides in examining genetic markers of disease risk. Indeed, the term health-related states or events may be seen as anything that affects the well-being of a population.

Therefore, the clinician and the epidemiologist have different responsibilities when faced with a person with illness. For example, when a patient with diarrheal disease presents, both are interested in establishing the correct diagnosis. However, while the clinician usually focuses on treating and caring for the individual, the epidemiologist focuses on identifying the exposure or source that caused the illness; the number of other persons who may have been similarly exposed; the potential for further spread in the community; and interventions to prevent additional cases or recurrences. Like the practice of medicine, the practice of epidemiology is both a science and an art. To make the proper diagnosis and prescribe appropriate treatment for a patient, the clinician combines medical scientific knowledge with experience, clinical judgment, and understanding of the patient. Summary Epidemiology is the study scientific, systematic, data-driven of the distribution frequency, pattern and determinants causes, risk factors of health-related states and events not just diseases in specified populations patient is community, individuals viewed collectively, and the application of since epidemiology is a discipline within public health this study to the control of health problems. Match the term to the activity that best describes it. You should match only one term per activity.

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6: An Introduction To The Principles Of Disease by J.B. Walter

An introduction to the principles of disease by J. B. Walter, , Saunders edition, in English - 2nd ed.

7: AN INTRODUCTION TO THE PRINCIPLES OF DISEASE

Old traditions die hard. Walter's "Introduction to the Principles of Disease" exemplifies the notion that a detailed, all-inclusive pathology course is indispensable in training students for a career in health care.

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9: Principles of Epidemiology Workbook: Exercises and Activities

Microbiology: An Introduction, 12e (Tortora) Chapter 14 Principles of Disease and Epidemiology Multiple-Choice Questions 1) A commensal bacterium A) does not receive any benefit from its host.

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