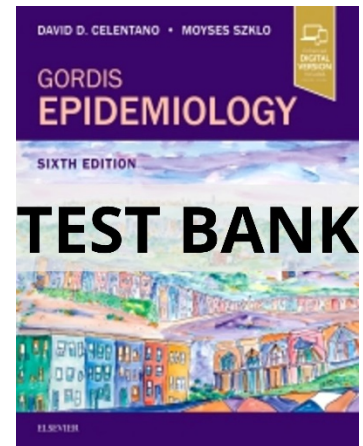


Chapter 01: Introduction

Celentano: Gordis Epidemiology, 6th Edition

Test Bank



MULTIPLE CHOICE

1. Which of the following is an example of tertiary prevention?
- a. Vaccination for rotavirus for children younger than the age of 1 year
 - b. Surgical amputation of an extremity with osteosarcoma (bone cancer)
 - c. Screening for gestational diabetes after 24 weeks of pregnancy
 - d. Sexual education program in elementary schools
 - e. Increasing taxes for buying cigarettes

ANS: B

Surgical amputation of an extremity with osteosarcoma (bone cancer) is an example in which when a disease is present the treatment (amputation) is done to reduce the impact of disease by preventing the tumor from dissemination. Vaccination for rotavirus for children younger than the age of 1 year, sexual education program in elementary schools, and increasing taxes for buying cigarettes represent examples of primary prevention. Screening for gestational diabetes after 24 weeks of pregnancy is an example of secondary prevention.

2. This historic character observed that childbed fever mortality was more common among women treated by physicians and medical students compared with women treated by midwives. Based on his observations, he implemented a hand wash policy that resulted in a decrease in mortality. Name the character that we are talking about.

- a. John Snow
- b. Edward Jenner
- c. D.A. Henderson
- d. Leon Gordis

e. Ignaz Semmelweis

ANS: E

Ignaz Semmelweis identified that medical students and physicians transmitted the disease by not washing their hands after examining bodies at autopsies and conducting multiple examinations in the clinic.

3. Thanks to the contributions of Edward Jenner, the following disease was eradicated later by efforts organized by D.A. Henderson:

- a. Cholera
- b. Smallpox
- c. Chickenpox
- d. Polio
- e. Zika

ANS: B

Smallpox was eradicated in 1980. Edward Jenner vaccinated James Phipps in 1796 against smallpox. Almost 200 years later, the World Health Organization (WHO) commissioned D.A. Henderson to lead the efforts to eradicate the disease.

4. Over the past century, a marked decline in the mortality rates of many infectious diseases has been observed. Which of the following is the most likely reason for the observed decline in mortality rates from common infectious diseases?

- a. Development of penicillin
- b. Development of insulin
- c. Development of vaccines
- d. Improvement in social conditions
- e. Worse sanitation and unsafe water

ANS: D

Although medical treatments potentially helped in the decrease of infectious diseases, the advancement in social conditions played a major role. These improvements include better sanitation, safe disposal of waste, better nutrition, and improvement in housing conditions.

Chapter 02: The Dynamics of Disease Transmission

Celentano: Gordis Epidemiology, 6th Edition

Test Bank

MULTIPLE CHOICE

1. Which term most accurately describes the following definition? “The occurrence in a community or region of cases of an illness, specific health-related behavior, or other health-related events clearly in excess of normal expectancy.” [Porta M, ed. *A Dictionary of Epidemiology*. New York: Oxford University Press; 2014.]

- a. Endemic
- b. Epidemic
- c. Pandemic
- d. Attack rate
- e. Incubation period

ANS: B

An epidemic is the occurrence of health-related events *in a community or region*, in clear excess of *normal expectation*. Endemic is not true because it is defined as *the constant occurrence* of a disease, disorder, or noxious infectious agent in a geographic area or population group. Pandemic is not true because it is defined as an epidemic occurring *over a very wide area, crossing international boundaries*, and usually affecting a large number of people. Attack rate is not true because it is defined as number of people at risk in whom a certain illness develops over total number of people at risk. Incubation period is not true because it is the interval from receipt of infection to the time of onset of clinical illness (the onset of recognizable symptoms).

2. What is the most accurate definition of the incubation period (of an infectious disease)?

- a. The time of onset of clinical illness or the onset of recognizable symptoms
- b. The interval from receipt of infection to the time of onset of clinical illness (the onset of recognizable symptoms)
- c. The time of invasion by an infectious agent
- d. The time between initiation of infection and first shedding or excretion of the agent
- e. The period between exposure and the onset of infectiousness

ANS: B

The incubation period is defined as the interval from receipt of infection to the time of onset of clinical illness (the onset of recognizable symptoms); in other words, the time between the moment of developing symptoms and the moment of invasion by an infectious agent. “The time of onset of clinical illness or the onset of recognizable symptoms” is not true as it corresponds to “time of onset.” “The time of invasion by an infectious agent” is not true as it corresponds to “time of infection.” “The time between initiation of infection and first shedding or excretion of the agent” and “The period between exposure and the onset of infectiousness” are not true as they correspond to the latent period. (The latent period is focusing on the onset of infectiousness, but the incubation period is focusing on the onset of the symptom.)

3. There was a food poisoning outbreak on April 1, 2018, at the City Z Food Safety Conference. There were 1,000 people registered for the conference with luncheon, 100 volunteers to host attendees, and 50 people who served the luncheon during the conference. Except for 50 people who served the food, all of the participants and volunteers ate the food from the luncheon at the conference on April 1, 2018. Based only on the information given in this question, how many people are at risk in this food poisoning outbreak?

- a. 1,000
- b. 1,100
- c. 1,150
- d. 150
- e. 50

ANS: B