

# Gordis Epidemiology Review Questions Answers

## GORDIS EPIDEMIOLOGY 6TH EDITION TEST BANK COMPLETE 2023 - 2024

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 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

**Gordis Epidemiology Review Questions Answers** are crucial resources for students and professionals looking to deepen their understanding of epidemiological principles. Understanding the fundamental concepts of epidemiology is essential for public health, clinical research, and health policy. This article will delve into key topics concerning Gordis Epidemiology, providing a comprehensive review of common questions and answers that can aid both learning and application in real-world scenarios.

# Understanding Gordis Epidemiology

Gordis Epidemiology, authored by David D. Gordis, is a widely respected textbook that provides a thorough introduction to epidemiological methods and principles. It serves as a foundational resource for students and professionals in public health, medicine, and related fields. The book covers essential topics such as:

- Epidemiological study designs
- Measures of disease frequency
- Measures of association
- Bias and confounding
- Screening and diagnostic tests

Each of these topics plays a vital role in understanding the dynamics of health and disease in populations.

## Key Concepts in Epidemiology

To grasp the principles of Gordis Epidemiology, it is important to understand several key concepts:

### 1. Epidemiological Study Designs

Epidemiology employs various study designs to investigate health-related states or events. The main types include:

- Descriptive Studies: These studies describe the distribution of diseases and health outcomes. They help identify patterns by person, place, and time.
- Analytical Studies: These studies aim to identify risk factors and causal relationships. Common analytical designs include cohort studies, case-control studies, and randomized controlled trials (RCTs).

### 2. Measures of Disease Frequency

Understanding how to quantify health events is essential. Key measures of disease frequency include:

- Incidence: The number of new cases of a disease in a specified population over a specified time period.
- Prevalence: The total number of existing cases of a disease in a population at a given time.

These measures help public health officials and researchers evaluate the burden of disease in populations.

### 3. Measures of Association

Measures of association help determine the relationship between exposures and outcomes. Important measures include:

- Relative Risk (RR): The risk of disease in the exposed group compared to the unexposed group.
- Odds Ratio (OR): The odds of disease in the exposed group compared to the unexposed group, commonly used in case-control studies.

### 4. Bias and Confounding

Bias and confounding can significantly affect study results. Key concepts include:

- Bias: Systematic errors in study design or data collection that lead to incorrect conclusions. Types of bias include selection bias and information bias.
- Confounding: A situation where an outside variable influences both the exposure and the outcome, potentially distorting the true relationship.

### 5. Screening and Diagnostic Tests

Screening tests are used to identify potential health disorders or diseases in asymptomatic individuals. Important concepts include:

- Sensitivity: The ability of a test to correctly identify those with the disease (true positive rate).
- Specificity: The ability of a test to correctly identify those without the disease (true negative rate).

A thorough understanding of these concepts is essential for interpreting the effectiveness of screening programs.

## Common Review Questions and Answers

Here, we will explore some common review questions based on Gordis Epidemiology, providing succinct answers to facilitate understanding.

### Question 1: What is the difference between incidence and prevalence?

Answer: Incidence refers to the number of new cases of a disease that occur in a specified population during a defined time period, while prevalence refers to the total number of existing cases (both new and pre-existing) at a specific point in time. Incidence provides insight into the risk of contracting the disease, whereas prevalence indicates how widespread the disease is.

## Question 2: What are the strengths and weaknesses of cohort studies?

Answer:

Strengths:

- Can establish a sequence of events and infer causation.
- Useful for studying rare exposures.
- Allows assessment of multiple outcomes.

Weaknesses:

- Time-consuming and expensive.
- Not suitable for studying rare diseases.
- Potential for loss to follow-up, which can bias results.

## Question 3: How do you calculate relative risk?

Answer: Relative risk (RR) is calculated by dividing the incidence rate of the disease in the exposed group by the incidence rate of the disease in the unexposed group:

$$RR = \frac{\text{Incidence in exposed}}{\text{Incidence in unexposed}}$$

A RR greater than 1 indicates an increased risk associated with the exposure, while a RR less than 1 indicates a protective effect.

## Question 4: What is the role of a control group in an RCT?

Answer: A control group serves as a benchmark against which the effects of the intervention can be compared. It helps to isolate the effect of the intervention from other factors that could influence the outcome, thus enhancing the internal validity of the study.

## Question 5: Why is randomization important in clinical trials?

Answer: Randomization minimizes selection bias and helps ensure that the groups being compared are similar in all respects except for the intervention being tested. This increases the likelihood that differences in outcomes can be attributed to the intervention itself rather than other confounding variables.

# Application of Gordis Epidemiology in Public Health

The principles outlined in Gordis Epidemiology are not just academic; they have practical applications in public health. Understanding epidemiological methods allows health professionals to:

- Design effective health interventions
- Allocate resources efficiently
- Evaluate the effectiveness of public health programs
- Inform policy decisions

By applying epidemiological principles, public health professionals can better understand disease patterns, identify at-risk populations, and develop strategies to reduce health disparities.

## Conclusion

Gordis Epidemiology Review Questions Answers serve as a valuable tool for mastering the essential concepts of epidemiology. By understanding the key principles, study designs, and measurement techniques outlined in this article, students and professionals can enhance their ability to analyze health data and contribute to public health efforts. Mastery of these concepts is critical for advancing knowledge, improving health outcomes, and fostering healthier communities.

## Frequently Asked Questions

### What is the primary focus of Gordis Epidemiology?

Gordis Epidemiology primarily focuses on the principles and methods used to study the distribution and determinants of health-related states or events in specified populations.

### How does Gordis define 'epidemiology'?

Gordis defines epidemiology as the study of how often diseases occur in different groups of people and why.

### What is the significance of 'case-control studies' in epidemiology according to Gordis?

Case-control studies are significant because they allow researchers to identify factors that may contribute to a particular health outcome by comparing subjects with the outcome to those without.

### What are some common biases in epidemiological studies highlighted in Gordis?

Common biases include selection bias, information bias, and confounding bias, which can affect the validity of study results.

## According to Gordis, what is the role of 'surveillance' in public health?

Surveillance plays a crucial role in public health as it involves the continuous, systematic collection, analysis, and interpretation of health-related data for planning, implementation, and evaluation of public health practices.

## What is 'population-attributable risk' as discussed in Gordis Epidemiology?

Population-attributable risk refers to the proportion of incidence in the population that can be attributed to a specific risk factor, highlighting the potential impact of eliminating that risk factor on public health.

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