

Archive

Lecture 18

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- 1. Which statement best captures the essence of epidemiology as defined in the document?
- A) It exclusively focuses on infectious diseases in urban populations.
- B) It studies health outcomes exclusively related to chronic diseases like cancer.
- C) It investigates both disease and health outcomes across various human populations.
- D) It primarily aims to develop therapeutic interventions for diseases.
- E) It is limited to analyzing historical data on disease outbreaks.

Answer:c ::

- 2.In epidemiological research, which of the following goals is most closely associated with controlling disease distributions?
- A) Only describing the frequency of diseases within populations.
- B) Predicting future disease occurrences without intervention strategies.
- C) Eradicating existing cases and preventing new occurrences through health initiatives.
- D) Solely focusing on the social determinants of health.
- E) Establishing a comprehensive database of disease incidence.

Answer:c

- 1. Which of the following is a significant limitation of cross-sectional studies?
- A) They can easily establish cause-and-effect relationships.
- B) They provide insights into the temporal relationship between exposure and disease.
- C) They measure prevalence rather than incidence, limiting their applicability.
- D) They are ideal for studying rare diseases with short durations.
- E) They require extensive follow-up periods to gather data.

Answer:c

- 4.in the context of case-control studies, which of the following statements is accurate regarding the selection process?
- A) Cases and controls can be selected from different populations to enhance variability.
- B) Controls should reflect the same exposure status as the cases to ensure comparability.
- C) The selection of controls must be based on their disease status rather than their exposure.
- D) Cases should be chosen based on a clearly defined diagnostic criterion.
- E) Controls are irrelevant in the analysis of case-control studies.

Answer:d



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- 5. What does an Odds Ratio (OR) greater than 1 imply regarding exposure in case-control studies?
- A) The exposure is protective against the disease.
- B) There is no association between exposure and disease.
- C) The exposure increases the likelihood of disease occurrence.
- D) The exposure has no relevance in the context of disease risk.
- E) The relationship between exposure and disease is indeterminate.

Answer:c

- 6. Which of the following best describes the characteristics of cohort studies?
- A) They are typically retrospective and rely on historical data.
- B) They start with individuals who are already diagnosed with the disease.
- C) They assess exposure at baseline and follow up on disease status later.
- D) They are primarily concerned with measuring prevalence rather than incidence.
- E) They require a smaller sample size than case-control studies.

Answer:c

- 7. What is a primary advantage of using descriptive studies in epidemiological research?
- A) They can definitively establish cause-and-effect relationships.
- B) They are the most efficient design for studying rare diseases.
- C) They provide detailed insight into the occurrence of health outcomes.
- D) They can identify risk factors with a high level of precision.
- E) They require extensive resources and long-term follow-up.

Answer:c

8.in the analysis of incidence rates, which of the following formulas correctly represents the calculation for incidence among the exposed group?

- A) \(\frac{c}{c+d} \)
- B) \(\frac{a}{a+b}\)
- C) \(\frac{b}{a+c}\)
- D) \(\frac{d}{b+d}\)

Answer:b



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- 9. Which statement best describes the weaknesses associated with case-control studies?
- A) They require a very large sample size and extensive follow-up.
- B) They can directly estimate the risk of disease occurrence.
- C) They are subject to biases such as recall and selection bias.
- D) They are not suitable for studying rare exposures.
- E) They measure incidence rather than prevalence effectively.

Answer: c

- 10. What is the significance of the Relative Risk (RR) calculation in cohort studies?
- A) It provides a direct estimate of the odds of exposure.
- B) It compares the incidence of disease among exposed and non-exposed groups.
- C) It is used only for descriptive studies.
- D) It reflects the prevalence of the disease in the population.
- E) It is irrelevant in establishing causal relationships.

Answer:b

- 11. Which of the following best describes the primary goal of epidemiological research?
- A) To solely identify the most prevalent diseases in a population
- B) To predict the incidence of diseases without considering risk factors
- C) To establish causal relationships between exposures and health outcomes
- D) To describe the health status of populations without formulating hypotheses
- E) To control the distribution of diseases through immediate medical interventions

Answe:cr

- 12.in case-control studies, which of the following is true regarding the selection of controls?
- A) Controls should be selected from a different population to ensure diversity.
- B) Controls must be representative of the population at risk for the disease.
- C) Controls can have the disease but should not be aware of their status.
- D) Controls should be selected based on their exposure status.
- E) Controls are not necessary for properly conducted case-control studies.

Answer:b





13. Which of the following statements about cohort studies is accurate?

- A) Cohort studies are primarily retrospective in nature.
- B) They can establish cause-effect relationships more reliably than case-control studies.
- C) They are most useful when diseases are common and easily tracked.
- D) Cohort studies typically require a smaller sample size than case-control studies.
- E) Loss to follow-up is not a concern in cohort studies.

Answer:b

14.n the context of the Odds Ratio (OR), which interpretation is correct if the calculated OR is greater than 1?

- A) Exposure is likely to be a protective factor for the disease.
- B) There is no association between exposure and disease occurrence.
- C) Exposure increases the odds of having the disease.
- D) The exposure has no relevance to the disease risk.
- E) The disease is equally likely regardless of exposure status.

Answer: c

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