Midterm exam - Research & Biostatics
Sem 4 - 2024/2025 - Thursday, 17th of April - 10:00 am to 10:30 am

MCQs

1. Case (calculate prevalence) ?
Answer: Cross-sectional study

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2. In a study comparing two groups (low carbohydrate diet and balanced diet) regarding weight loss, which group is considered the experimental group?
Answer: Low carbohydrate diet group

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3. If the Risk Ratio (RR) = 3.0, what does this indicate about smokers in relation to disease development?*
Answer: Smokers are 3 times more likely to develop the disease

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4. In a study comparing diseased and non-diseased patients over the past 3 years, which statistical measure is appropriate to use?
Answer: Odds Ratio

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5. In which type of study is data collected at a single point in time?
Answer: Cross-sectional study

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6. Researchers wanted to get information about how often do elderly people adhere to treatment they did a study on sample of 500 over the period of 3 years to study how often they went to refill their prescriptions and attend doctors appointments. What is the study type?
Answer: longitudinal

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7. In a case-control study, what describes the individuals classified as "cases"?
Answer:* They have the disease of interest

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 8. What is the key difference between cohort studies and case-control studies?
Answer:
Case-control: compares diseased vs non-diseased individuals ,Cohort: compares exposed vs non-exposed individuals

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9. What is the main difference between a cohort study and a randomized clinical trial (RCT)?
Answer:
Cohort: No randomization ,RCT: Randomization is present

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10. In a study of people with alcohol exposure some developed liver cirrhosis while others did not, what is the main characteristic of the control group?
Anwser: Matching in sex & age & other relative factors