

Guideline Quizzes for Module 11

Question 1

1 point

Which statement best describes a marginal effect in the context of statistical models?

Choose at least one correct answer

- ☐ (A) The average effect of a predictor variable across all values of other variables.
- ☒ (B) The change in the predicted outcome associated with a one-unit change in a predictor variable, holding other variables at their observed values. Correct answer
- ☐ (C) The effect of a predictor variable on the outcome variable, holding all other variables constant.
- ☐ (D) The total effect of a predictor variable on the outcome variable, including any indirect effects through other variables.

Question 2

1 point

In an interaction model, what does it mean when the interaction term is statistically significant?

Choose at least one correct answer

- ☐ (A) The effect of one predictor variable on the outcome is the same across all levels of another predictor variable.
- ☐ (B) The two predictor variables are highly correlated with each other.
- ☒ (C) The effect of one predictor variable on the outcome depends on the level of another predictor variable. Correct answer
- ☐ (D) The model is misspecified and should not include an interaction term.

Question 3

1 point

According to Brambor et al. (2006), how can researchers improve the presentation of interaction effects in their empirical analyses?

Choose at least one correct answer

☐ (A) Focus solely on the statistical significance of the interaction term.

☐ (B) Avoid using graphs or tables to illustrate the interaction.

☒ (C) Use clear and substantive language to describe the conditional effects of the interaction

Correct answer

☐ (D) Only report the results of complex interaction models.

Question 4

1 point

Hainmueller et al. (2019) raise concerns about the robustness of estimates from multiplicative interaction models. What is one of their main recommendations?

Choose at least one correct answer

☐ (A) Always use linear interaction models instead of multiplicative ones.

☐ (B) Ignore interaction effects altogether if there is any uncertainty about their validity.

☐ (C) Rely solely on the statistical significance of the interaction term to draw conclusions.

☒ (D) Conduct sensitivity analyses to assess the impact of different modeling choices and assumptions.

Correct answer

Question 5

1 point

King, Tomz, and Wittenberg (2000) emphasize the importance of making the most of statistical analyses. Which of the following is NOT one of their recommendations?

Choose at least one correct answer

☒ (A) Focus solely on statistical significance when interpreting results.

Correct answer

☐ (B) Clearly define the research question and hypotheses.

☐ (C) Carefully choose appropriate statistical methods.

☐ (D) Present results in a clear and accessible manner.