

1. Which of the following would be classified as a continuous data measure?

- ☐ Gender Identity (cis male, cis female, non-binary, trans, other)
- ☐ Disease status: disease or no disease
- ☒ Expenditures (in US dollars) incurred during last inpatient hospital visit
- ☐ Degree of agreement on a 5 point scale (strongly disagree, disagree, neutral, agree, strongly agree)

2. A randomized controlled clinical trial is an example of a(n):

- ☐ cross-sectional study
- ☐ observational cohort study
- ☒ prospective cohort study
- ☐ case-control study

3. A study is designed to assess the relationship between a rare disease ("disease A") and an exposure of interest ("exposure A"). One-hundred subjects with "disease A" are recruited to participate in the study, as are 200 subjects who do not have "disease A". This is an example of what kind of study design?

- ☒ Case-control study
- ☐ Randomized prospective cohort study
- ☐ Cross-sectional study
- ☐ Observational prospective cohort study

4. What is the primary advantage of a randomized controlled trial (RCT) as compared to other study designs?

- ☐ RCTs tend to be less expensive than other types of studies.
- ☐ Researchers who do RCTs are better scientists than those who perform other types of studies.
- ☐ The results from a RCT are likely to be more interesting scientifically as compared to results from the other types of studies.
- ☒ The likelihood that the outcome/exposure relationship is confounded by other factors is minimized with a RCT design.

5. Which of the following is a characteristic of a random (representative) sample taken from a larger population?

- ☐ These samples tend to be smaller than non-random samples.
- ☐ The characteristics of the sample will be exactly the same as the characteristics of the population from which the sample is taken.
- ☒ The characteristics of the sample should be similar to the characteristics of the population from which the sample is taken.
- ☐ Random samples are less expensive to obtain than non-random samples.