

Threats to Validity

Data scientists surveyed **100 coffee and tea drinkers over a 1-month period** to determine a connection between caffeine consumption and sleep disorders. Respondents were asked questions regarding the **amount of coffee or tea consumed daily, dietary habits, sleep habits, and exercise levels**. Based on this survey, the data scientists claim that **people who drink tea exclusively have more incidents of insomnia than people who drank coffee exclusively**.

Before publishing their findings, the data scientists have asked you to review their claim. In the space below, indicate possible **threats to validity** faced by this study.

Sample size: 100 people is a relatively small sample size

Participants in this study may alter their caffeine consumption, diet, or exercise routines because they know they're part of a study. (Observer Effect)