**Question 1**

In a case-control study, we typically start with an \_\_\_\_\_ we are interested in studying.

1. Exposure
2. Outcome

In a case-control study, we typically start with an outcome we are interested in studying. When then sample (select) people for the study based on the presence or absence of that outcome.

**Question 2**

Shands Hospital at the University of Florida is a referral hospital for a variety of cancer diagnoses. Researchers are interested in the association between bronchogenic carcinoma and a history of cigarette smoking, and they decide to conduct a case control study. Cases are selected from the admissions records to the cancer center. Controls are randomly selected from the population of the surrounding county.

Does the control group violate the study base principle? Why or why not?

**Question 3**

Researchers are interested in the effect of obesity on colorectal cancer and conduct a

case-control study. Cases are selected from a large colon cancer registry. Researchers are concerned that unmeasured genetic factors may bias study results.

What would be a good control group to remove the potential confounding effects of genetic factors?