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Video 14 Causation

1. People who own more cars tend to live longer than people who own fewer cars. Why is this relationship not evidence that buying more cars increases life expectancy?

-The relationship is those people who live more have more money and they are able to afford a lot of things including better medical services, diet, and of course vehicles.

2. Heavy smokers are about 20 times more likely to get lung cancer than nonsmokers. Why isn't this link by itself good evidence that smoking causes lung cancer?

-Because nonsmokers can get lung cancer by being exposed to second hand smoke.

3. What is the difference between a retrospective study and a prospective study?

-the difference is that in a retrospective study data is being collected before an outcome while in a prospective study the interest has already been developed.

4. Why is a prospective study that compares a group of smokers with a similar group of nonsmokers not an experiment?

-It would be unethical to expose people to the experiment.

5. Why do experiments with animals add to the evidence that smoking causes cancer in humans?

- Because in this type of experiment data has been collected and time to observe too.