

## Section 1.3: Experiments and Observational Studies

### Example 1: Association or Causation?

For each of the following statements, indicate whether the statement implies causation or just indicates association without causation.

- a). If you study more, your grade will improve in this course.  
*Causation! "Will improve" implies causation.*
- b). Want to lose weight? Drink tea!  
*Causation! The implication is that drinking tea will cause you to lose weight.*
- c). Aging of the brain tends to be delayed in people with a college education.  
*Association without causation. The statement is not claiming that a college education will cause a delay in aging of the brain. In fact, there are many confounding factors.*

### Example 2: Television sets and Life expectancy

There is a very strong positive association between television sets per person in a country and the life expectancy of the people in that country, which means people in countries with lots of TVs tend to live longer.

- a). Does this mean we can improve the life expectancy of people in developing countries by sending them lots of television sets? *No! This strong association is not causation.*
- b). Describe a possible confounding variable in this association. *The wealth of the countries is a confounding variable. Wealth will affect both the number of television sets and the life expectancy.*

### Example 3: Does Kindergarten Lead to Crime?

A state legislator in New Hampshire claimed in July 2012 that kindergarten programs lead to more crime. He noted as evidence that the largest of all the communities in his county was the only community with a kindergarten program and also had the most crime.

- a). What common mistake is the legislator making?  
*The legislator is assuming association implies causation. This is a very common mistake! Just because there is a strong association does NOT mean that one is causing the other.*
- b). Describe a possible confounding variable in this association. *The population of the communities. Larger communities are more likely to have a kindergarten program and are also more likely to have more crime.*

### Quick Self-Quiz: Association, Causation, and Confounding Variables

An association is described. In each case, indicate

- a). Whether the statement implies causation or just association
  - b). A possible confounding variable
1. More sales of sunscreen tend to occur when more sunglasses are sold.  
*a). Just association without causation. b). Amount of sunshine*
  2. "Exercise reduces risk of Alzheimer's" claims a headline reporting on a study of elderly people that recorded how much each exercised at age 70 and then whether the person got Alzheimer's disease.  
*a). Causation b). The person's overall health at age 70. People with early stage (and not yet detected) Alzheimer's disease are probably less likely to exercise.*
  3. Increased weight helps students run faster.  
*a). Causation b). Gender! This is an often overlooked confounding variable. Males tend to weigh more and also to run faster. Another possible answer is age if the participants are children.*

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