EPIB 613
November 15, 2012
Exercise #7

Using the dataset esoph.dta, which is from a case control study of esophageal cancer:

1. **Find a crude OR and 98% CI comparing an alcohol consumption of 120+ g/day to 0-39g/day.**

2. **What is the OR comparing an alcohol consumption of 120+g/day to 40-79g/day, adjusted for age group?**

The dataset hip.dta (available on the course website) contains data from a study that was performed to quantify the benefit of a new inflatable device to protect elderly persons from hip fractures resulting from falls. The time to hip fracture or censoring was recorded in months.

3. **Using the ir command, determine the incidence rate (IR) of fractures among individuals who wear a protective device both in units of fractures per person-month and fractures per person-year.**

4. **Determine the incidence rate ratio (IRR) and 99% CI comparing individuals who wear protective devices to those who do not.**

5. **Create a new variable for age categorized into the following groups: 60-67, 68-74, 75+. Is there evidence of a different association between wearing a protective device and fracture by age group?**

6. **Stset your data and find an incidence rate ratio (IRR) and 99% CI comparing individuals who wear protective devices to those who do not using –stir-. Compare to your answer in q4.**

7. **Find a crude hazard ratio for the association between wearing a protective device and the risk of fracture.**