Objectives for Module 9.1 - Crude and Age-Adjusted Risk Ratio for Death

- 1. Calculate the crude risk ratio of death for smokers compared to nonsmokers in Stata
- 2. Calculate the age-adjusted risk ratio of death for smokers compared to nonsmokers in Stata
- I. Calculate the crude risk ratio of death for smokers compared to nonsmokers in Stata
 - a. Dropdown
 - i. Statistics → Epidemiology and related → Tables for epidemiologists → Cohort study risk-ratio etc.
 - ii. Under "Case variable" select "death"; under "exposed variable" select "cursmoke1"
 - b. Command window type: cs death cursmoke1
- II. Calculate the age-adjusted risk ratio of death for smokers compared to nonsmokers in Stata.

First, create 4 categories for age using the following code:

```
gen age4cat=.
replace age4cat=0 if (age1<=40)
replace age4cat=1 if (age1>40 & age1 <= 50)
replace age4cat=2 if (age1>50 & age1 <= 60)
replace age4cat=3 if (age1>60 & age1<.)</pre>
```

- a. Dropdown
 - i. Statistics → Epidemiology and related → Tables for epidemiologists → Cohort study risk-ratio etc.
 - ii. Under "Case variable" select "death"; under "exposed variable" select "cursmoke1"
 - iii. Go to the "Options" tab; click the box next to "stratify on variables"; use the dropdown menu to select "age4cat"Note: Under "Within-stratum weights" the button next to "Use Mantel-
 - Haenszel" should be automatically selected
- b. Command window type: cs death cursmoke1, by (age4cat)