STATA FOR EPIDEMIOLOGY, LAB 7

PH241, SPRING 2018

Datasets. Datasets are available on bCourses.

In this (very) brief lab, we'll cover tools you'll need to complete Homework 8. This includes two methods of testing for multiplicative interaction.

1. Stratified Analyses

Today, we'll again be using the Western Collaborative Group Study data.

(1) Open the WCGS data set from the class website, and generate the wtcat variable (as we did last time):

```
use "wcgs.dta", clear
gen wtcat=0
replace wtcat=1 if weight0>150 & weight0<=160
replace wtcat=2 if weight0>160 & weight0<=170
replace wtcat=3 if weight0>170 & weight0<=180
replace wtcat=4 if weight0>180
```

Note that the categories are slightly modified to better follow the book and lecture notes.

(2) The Woolf test of homogeneity can be done with the pooled option:

```
cc chd69 dibpat0, pool by(wtcat)
```

It is listed under "Test of homogeneity (direct)"

(3) Similarly, the Breslow-Day test of homogeneity can be done with the bd option:

```
cc chd69 dibpat0, bd by(wtcat)
```

It is listed under "Test of homogeneity (B-D)"

In both cases $p > 0.05$, so we fail to reject the H_0 that the OR are the same. This suggests there is little evidence for multiplicative interaction.