ERHS 642 Logistic Regression Spring 2016

Homework Assignment 4 – New Version

1.
   a. HL Chapter 3, page 88, question 4 (assess confounding, multiplicative <u>and additive</u> interaction)

   b. Use contrast statements in proc logistic to create ORs and 95% CIs in a 4-row table; using the 4-row table reassess multiplicative and additive interaction. Compare your results to the results from part a.

   c. Interpret the ORs and 95% CIs from the 4-row table.

   d. Note that the ORs in the 4-row table have very wide 95% CIs. Use cross-classification tables (proc freq) to determine why this is the case.

2.
   a. HL Chapter 3, page 88, question 5 (for 5a, show that age IS a confounder; assess multiplicative <u>and additive</u> interaction)

   b. Interpret the ORs and 95% CIs obtained from the contrast statements in part a. Why do the results make sense intuitively?