CPH 636 — Spring 2009 — Dr. Charnigo

Written Assignment 1 Solutions

5. The estimated odds ratios are 1.154 (for NPREG) and 1.037 (for GLU).

6. Each student (or collaborative team) had different estimated odds ratios since each student (or collaborative team) had a different training subset. [[Constructing a training subset entailed *randomly* selecting 100 observations from the data set provided to you.]]

In any case, the estimated odds ratios are not equal to 1.154 and 1.037, nor should such equality have been expected. Although the odds ratios are unambiguously defined population parameters, all that you can obtain from sample data are *estimates* of the odds ratios. Since there are many ways to draw a sample from a population, many different estimates of the odds ratios are possible. [[Here you considered only two samples: the data set provided to you and a training subset that you constructed.]]