**Homework 12 Key**

**Reading question**

1. From the reading: “The bias has to do with measurement error (intraindividual variability) in the covariate, which leads to underestimation of B2…” The ACONVA approach assumes no group effect at pretest.

**Data analysis**

9. We analyzed self-reported irritation in separate general linear models (GLM) each with a between-subjects factor for Mello Yello group (deprived drinkers, satiated drinkers, haters) and repeated measures for task time (baseline, anticipation). We analyzed the task time factor using a planned within-subject contrast to examine the effects of Anticipation (anticipation of drinking vs. baseline) for each group (dummy coded in separate models with each group as the reference group) consistent with our research goals. We used Fisher’s LSD approach to protect against inflation of family-wise error. The main effect of drinking group was not significant. *F*(2,129) = .65, *p* = .521. However, we tested each of our three hypotheses using Holm-Bonferroni correction for multiple comparisons. While uncorrected analysis showed a significant effect of anticipation for the deprived group (*CI* = [-0.83, -0.005], = .03, *t*(129) = .2.00, *p* = 0.047), no p values survived Holm-Bonferroni correction. More specifically, there was no effect of anticipation for deprived drinkers (*t*(129) = 2.00, *p* = 0.141), satiated drinkers (*t*(129) = .33, *p* = 0.741), or haters (*t*(129) = 1.25, *p* = 0.426) after correcting for multiple comparisons.