Follow Up Homework

**Summarize their design:**

* 37 patients with ischemic stroke
* at admission and 24 hrs later: all subjects received regular dose CT perfusion (CTP)
* at 24 hrs: received both a CT at radiation dose 100 mAs and one low dose at either 20 or 50 mAs
* measured cerebral blood flow, cerebral blood volume, mean transit time, and time to maximum arterial concentration

**Summarize the methods and hypothesis:** they had two CT conditions and measured the effects using MR. They hypothesized that low dose radiation would not be the same as high dose radiation

**Summarize the ANOVA and follow-ups (planned and unplanned):**

* The mean and standard deviation for CBF, CBV, MTT, and Tmax parameters were calculated for the ipsilateral ischemic and infarct regions and contralateral ischemic region for each of the four CT perfusion maps
* Differences between CBF, CBV, MTT, and Tmax parameters calculated from the RD and LD maps were determined using a within-subjects ANOVA omnibus test followed by post hoc paired t tests corrected for multiple comparisons.
* The between-subjects factors included in the omnibus tests were the tube current value for the LD scans (20 or 50 mAs).
* All statistical analysis was performed using the SPSS soft- ware package. Differences were considered significant for within-subjects omnibus tests at the level of p < 0.05 with Bonferroni corrections for multiple comparisons.