

ADNI biostat call, 28 August 2007

Laurel, Danielle, Monica, Rob, Brandon, Qian, Melissa Davis (ADCS) sitting in, John K.

Imaging data summaries are now being uploaded. Hippocampal volumes from Norbert's lab and something from Anders have been sent to ADCS.

Danielle and Laurel will be hosting a telephone workshop on how to access images and summary data from LONI. This will be held on 20 September at 9 AM – 12 PM Pacific time. Danielle is putting together a handout to be distributed before the call. The idea is for people to get an account on LONI and be able to call in close to computer, log in and walk through steps, and then discuss and ask questions. Danielle will show how to download an image, how to select, queries, and options. She will also show how to download the ADCS data and which forms are likely to be useful and how to merge.

Rob says maybe only 10% of people have an account yet. He asked for a handout on exactly how to get an account, what the dial-in number will be, and what people can expect to learn. There may be several dozen people who want to participate. David has a list and will circulate the information. Danielle will send by end of day.

Danielle and Laurel asked when we can expect the data to be uploaded; we are hoping before 20 September for at least one data set of summary data so we can demonstrate. Monica says the hold-up is at their end, as they want to get the unique subject ID so that merges will be easier. Then it will take 2-3 weeks. September 20 is exactly 3 weeks from Thursday so we will work with Monica to have data ready for public access.

Qian has been working on summaries of the mixed models for the neuropsych tests. Some tests don't have a lot of heterogeneity (either because of ceiling effects or just not much change). We are exploring looking at combinations to see if we can increase sensitivity to clinical change, so we have a better handle on what the biomarkers might be trying to detect.

ADAS COG is in waiting for release but should be out soon.

Biostat and Core meetings – one person from each lab, plus the biostat people, to be at November 2 meeting. Each lab and the biostat group will present data. We will close data 5 October and analyze and present preliminary results on individual summary data and some comparisons, and labs can do their own analyses (maybe on a little more data). There will also be some discussion from voxel-based groups. They can talk about template and some of the analyses. Paul and Gene will be there, and they may talk about some of what they have done so far including templates.

The Japanese ADNI group has been in touch about their study design.

Hao Zhang has done a nice thorough analysis of the VBM and beginning on TBM and just straight comparisons at voxel level of the prep phase data. We have 9 normal subjects scanned 2 weeks apart, so we would not expect to have any true change in these people,

but there is noise. Any differences we see are likely to be due to noise and not structure. Looks so far like the differences behave like a mixture of two normals, and there is spatial correlation. Next he is going to add in noise and see when VBM and TBM break down. We will keep John posted.

Next call is in two weeks, 11 Sept 2007.