Follow up 2/25/2011 meeting

Attendees: Christie, Clamann, Gil, Jeon, Kaber, Lee, Qin, Tupler, Yu, Zhu

Hello everyone,
As a follow-up to the meeting on 2/25/2011, below are the notes and the action items I recorded. Please advise if I have missed anything.

**Meeting Notes**

1. Preliminary Data Analysis (Biwen):
   1) Biwen conducted preliminary data analysis with 4 subjects for each group (group1: native block design, group2: basic VR block design). The results indicated that the basic VR block design test showed less learning rate than native block design test.
   2) Biwen used two different times learning % including formula based K and curve fitting based K. We will keep using curve fitting based K.
   3) We will analyze two different types of comparisons.
      i. Learning %
      ii. Slope of coefficient
   4) We will look at the result of data analysis again since we need enough subjects for the sensitivity.
   5) Biwen will calculate the power again.
   6) Dr. Tupler
      i. Suggested another analysis using base line differences.
      ii. We will calculate base line differences from the first trial group. It will say the distribution of the subject group. We can also do ANCOVA using first trial group as a covariate.

2. ROCF Scoring issues
   1) Janet asked proportion and the threshold. The proportion is width divided by height and multiply 1 plus/minus 0.3. In this equation, threshold is 0.3 (30%). Janet wanted to know whether we can adjust the threshold. So, we can adjust the threshold.
   2) Finally, we will send all ROCF images to Dr. Tupler and he will score them manually. Then we will compare with the score from the software.

3. VR block design test timing issues:
   1) Basic VR test has timing issues during the test trials. The subject might learn how to use a haptic device not how to complete block design. So, there might be a difference in results.
   2) Biwen and Caesar may need to observe the subject how many times they reorient and reposition the blocks during the test trials.
4. fMRI recruiting issue:
   
   1) Dr. Tupler suggested that:
      
   i. We need make balance the genders.
      
   1. Same numbers male and female subject in each group.

These are all the items that I noted or recalled from the meeting. If you have other points, please let me know.

Guk-Ho Gil