Follow up 4/22/2011 meeting

Attendees: Christie, Jeon, Kaber, Gil, Qin, Yu, Zhu

Hello everyone,
As a follow-up to the meeting on 4/22/2011, below are the notes and the action items I recorded. Please advise if I have missed anything.

**Meeting Notes**

1) Data analysis for therapy session (Biwen)
   i. Univariate repeated measures ANOVA
      1. Significant effect of condition.
   ii. Univariate repeated measures ANOVA after removing the “native task training” group
      1. Marginally significant effect of condition
   iii. ANOVA on the learning percentage response
      1. Significant effect of condition.
   iv. Nonparametric analysis (Kruskal-Wallis) for learning percentage response
      2. Basic VR vs. Native task: significant diff.
   v. GLM
      1. Linear fit
         a. Significant effect of difference between Aug. VR vs. Native task
         b. Significant effect of difference between Native vs. Basic VR
      2. Power fit
         a. Aug. VR vs. Native & Native vs. Basic VR: significant
         b. Slope diff. of Aug. VR vs. Native & Native vs. Basic VR: significant

vi. **BIWEN: to do list**
   1. Need to reduce the methods of analysis in order to write report and paper.
   2. Conduct post-hoc test again to see the mean differences (recommended by Dr. Tupler)
   3. Make summary more detail (e.g., adding more explanation)

2) BD analysis
   i. No significant diff.

3) MR analysis
i. No significant diff

4) **Zeno & Biwen to-do list** for BD & MR analysis
   i. Conduct pair-wise T test for control value
   ii. Conduct post-hoc analysis, adjusting alpha value

5) **ROCF Scoring:**
   i. Subject 9 was considered as an outlier due to highly low task completion time.
   ii. With S9: no significant effect of conditions
   iii. Without S9: marginally significant effect of conditions
   iv. Significant effect of improvement for condition and post-pre data

v. **Caesar to-do list**
   1. Conduct data analysis again after check normality of data and if need, conduct non-parametric analysis.
   2. Conduct post-hoc test.
   3. Make summary of results clear (understandable form of reports).
   4. Conduct component analysis for each ROCF figure with full data set.

6) **Confidence rating data analysis**
   i. Confidence rating
      1. Significant effect of conditions
      2. Significant effect of post-pre ratings
      3. Post-hoc analysis: Aug. VR and Native had significant differences.

   ii. Improvement percentage
      1. No significant effect of condition
      2. Post-hoc analysis: no significant differences of all data
      3. Box plot may show a outlier, so standard deviation for basic VR was 85.5

   iii. Janet to-do list
      1. Compare all data without considering condition (i.e., without separate data native, basic VR, Aug. VR.)
      2. Check outlier for basic VR. and explain the very high standard deviation.

7) **Preparation of full experiment:**
   i. Brainstorming of augmented VR features
      1. Dr. Tupler suggested the augmented system that can give rotation cue for the appropriate pattern.

8) **Outline:**
   i. Posted revised outline
ii. **All to-do list**

1. Please prepare your part of paragraph based on last meeting to-do list with the outline.

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