**Cross out items that you’ve completed.**

Meeting with Brett and Kunal

1. There is work to be done on getting better data in the in-patient setting
2. Cheating results is a bad idea
3. EEG study is looking for drops in EEG signal that could be indicative of stroke
4. CHI Paper/UI
   1. Change “Symptom” => “Findings/Signs/***Deficits***”
   2. Be careful with colors (Colorblindness and color differentiation)
   3. Axis image may be wrong check that!
      1. Make sure nodes in right place
   4. Wait… did we ruin the experiment by telling them that the displayed “deficits” are Kunal’s info? (consult Nadir)
   5. Also how can we get data from Kunal if he was the one who saw these patients initially? (consult Nadir)
   6. Potential to go into a neurology paper as well
   7. Questions: Any better way to show joint colors?
   8. Ask about getting fellows to do it? Send an email.
      1. Run an email template by Nadir before sending email to fellows/Kunal!
   9. Nadir – https certification
   10. Blank dots where Kinect data is missing
   11. Ask if lag or low frame rate of vids affects assessments? + Bug report?
   12. Tutorial vid
5. Have a specific list of symptoms for data collection. Consider running the list at the beginning of rounds, breaking off in the middle or towards the end to consent said patients and texting/calling the fellows when ready.
6. Goal: Better diagnosis by differentiating between stroke or no stroke
7. Ask about iPad scaling? (summer work for Andrew)
8. Wait, holding their hand the whole time?
9. Spot the FAKERS.
10. Stroke consults and stroke codes – Evan? go to Jacobs with Chloe
11. MAKE THE FELLOWS SIGN AN NDA
    1. Tech office
12. Nadir about presentation around July 4
    1. Expectations/What we Need
13. Give Chloe tips on data collection – Andrew
14. Add Brett and Kunal to patent
    1. Give Nadir Parth’s info

To-Do Thursday 5/30 Friday 5/31

1. Talk to Kunal on Fri about mandatory participation on Tuesday during clinic
   * If Kunal is not there on Friday, create a draft email – send to Vish
2. Bring Macbook JMC data collection laptop (and charger) home Friday to set-up design experiment on it

To-Do by Sunday 6/2

1. Find perfect 10 subjects to run sample experiment next week in person with residents/fellows **DONE**
   1. Ask Vish if need another subject’s data **ASKED**
2. Fake 3 patients (leave time series alone for now, fake symptoms) WIP
   1. 1st patient - Same symptoms that are higher or lower scored than the actual symptom
   2. 2nd patient - Random symptoms that don’t exist
   3. 3rd patient – Both of the above
3. Fetch patients from database dynamically **DONE**
   1. Parse through a hardcoded array of subject IDs
4. Insert page before demo saying the next patient is a demo patient **DONE**
5. Insert page before 1st patient that is part of study saying experiment will start now, plus instructions (tell them they can save after a patient) **DONE**
6. Change logo (Weibel lab logo – ask Vish) **DONE**
7. Place X, Y, Z vector axes next to video on UbiStroke slide **DONE**
8. Look into exporting data (questionnaire and scores) to CSV or XLSX from JSON **(Some online converters already exist, data needs to be consistent however)**
9. Look into screen video recording **(Easy if done on Mac)**

To-Do by 6/10

1. Prep for experiment to be run remotely by clinicians (after server up)
   1. Update any text instructions
   2. Click-through video demo
   3. Order of experiment: demo -> 7 real + 3 fake -> questionnaire -> ability to continue and do 10 more patients

Immediate Action Items

- Save and continue (create a profile per participant) DONE

- Fix bug: end of ubistroke slide, confidence value drop-down doesn’t work DONE

- Make the end-of-experiment questionnaire better (WIP on Google Forms)

- Integrate google forms? (<https://docs.google.com/forms/d/1XTR8hSULcT-QB24tKViirrHlLTqdcMUvEAlxYTUes64/edit?usp=sharing> )

- Split up questions into multiple

- accuracy vs reliability for example

- provide examples in a drop down menu of external resources they may use (plus an “other” option)

- Change answer options to drop down “yes/no” + “elaborate”

- prevent continuing with blank answers DONE

- Talk to Kunal about his JMC study about rehabilitation (“Project STRONG?”). See if we can piggy back off of that.

- Find background info on whether knowing when to see a patient again or discharge them is useful or is a problem right now in stroke care

- Import 10 subjects worth of body files and videos and use those **- Need storage transfer Device**

- Remove human outline **DONE**

- Remove transparency of the body parts **DONE**

- Use “Ubistroke ID” instead of MR number as Subject ID **DONE**

- Highlight joints that are selected to be plotted, highlight the same color it’s displayed on the graph **Done**

- Create a gradient based on the NIHSS score of symptoms in the area **WIP: Want to ask neurologists for more details.**

- Move all the user options to the corner, above right side of chart **DONE**

- Add Z data user option **Done**

- Move “Hide Nodes” into “User Options” **DONE**

- Put currently displaying over the chart (“… vs. Time (HH:MM:SS)”) **Should be done after data feeding is reworked.**

- Put NIHSS symptoms of patient in a larger rectangle and put in top right corner **DONE**

- Swap left and right labeling **DONE**

- Make app more scaleable **WIP**

-Make csv import/require dynamic

- Time Machine like interface for same patient, multiple visits (fake older data)

- Replicate Lisa’s Balsmiq prototypes in the UI with fake data

-Work on experiment design

-Video-Response Page -> Ubistroke-Response Page -> Questionaire & Comments **DONE**

-Have X and Y Label **DONE**

-Use Skeleton SVG **DONE**

-Look into how we can better compare Kinect joints (cm and inches?) (deviation from original point?)(should probably be a question on end of experiment questionnaire)

-Add questions to question form NEED MORE TIME (MEET Thursday?) DONE

-Create Video walkthrough.

-Intro page: Name, role (years of experience), experiment debrief, tutorial, brief questionnaire slide pages

-Follow up on server status DONE?

-question 5: outside the hospital, what kind of information???

-Maximize dropdowns

-Mention which questions there is an NA option for

-Look for similar work about comparing tools to what humans do’

-Reorder questions

-Look into UX/UI stuff

-

Make a list of questions:

Medium Priority

- Prep for Wizard of Oz study for “Start New Patient”

- Set up Virtual Machine (AWS) connected to Firebase DB

-Figure out why it doesn’t run on other browsers

Less Priority but Important

- Look into other data visualization APIs **DONE**

- Look into video display APIs **DONE**

- Click video at a timestamp, go to approximate spot in chart timeseries **DONE**

- Marker in time series chart, marker where you hover in the chart with your mouse **(Hover done, marker onclick WIP, should be possible with new API)**

- See how UI looks on different browsers, different screen sizes (the positions of the chart, User Options, human body, etc. should move accordingly) **See make app scaleable**

Process for Getting Feedback for a Design Paper - Spring Quarter

1. Testing with fellows in-person during data collection sessions

(Can Andrew specify smaller time frame during his data collection sessions to interview fellows/attendings so that Vish and Nadir can attend as well?)

2. Gather fellows’ feedback, summarize it

3. Meet with Kunal/Brett and discuss summary with them, and get their feedback on UI