Stim Seizure Annotation SOP

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CNT

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File overviews

* Metadata.csv
  + Record\_id
    - The RID that we use in the CNT surgical repository redcap
  + Hupsubjno
    - Number joined with “HUPXXX” that we can use for
  + Cceps\_run1\_sz
    - Did this patient have a seizure from cceps
    - No (0), Yes (1)
  + Cceps\_hfs\_seizure
    - Did this patient have a high frequency seizure
    - No(0), Yes(1)
* Manual Validation
  + AllSeizureTimes sheet in the file
  + Patient
    - Hup number
  + iEEGname
    - iEEG file name
  + start
    - start time of seizure on iEEG.org
  + end
    - end time of seizure on iEEG.org
* Stim seizure info
  + Patient
    - Hup number
  + iEEGname, start,end,source same as MV
  + stim
    - whether or not this was induced by stimulation
    - low frequency or CCEPs (1), high frequency (2), no (0)
  + stim\_channel
    - the channel that was stimulated to induce the seizure

Procedure for one patient

* Find patient in metadata.csv
  + Extract HUP subject number, their iEEG file names will either be HUPXXX\_phaseII or HUPXXX\_CCEP
  + If RID exists, fill in the RID in stim\_seizure\_info file for each entry
  + If RID does not exist, go into CNT surgical repository red cap and open up the RID\_HUP table and find the RID associated with the HUP ID
* In stim\_seizure\_information
  + Add an empty row in between each new patient
  + Fill in Patient and RID
* For now, to make things easier, I just want you to fill in patients who have seizures in the manual\_validation table
* Find the Patient in the manual validation table
* For each seizure
  + In iEEG.org – *might have to do steps twice, website is finicky*
    - Sign in, click on the data tab in the top left
    - Click open dataset by ID
    - Copy and paste the iEEGname for that seizure from manual validation
  + From manual validation put in start and end time and verify that there are annotations saying that the seizure starts and ends there.
    - EEC means earliest electrographic change (not annotated for all seizures, but preferred start time)
    - UEO means unequivocal electrographic onset (acceptable if EEC isn’t annotated
    - Might be something like “SZ start”
    - If they’re far apart/very distinct, add the UEO/SZ start annotations in the notes section of stim\_seizure\_info
  + Copy start and end time into stim\_seizure\_information along with if it was started by stim or not
    - If stim parameters are available as annotations (Hz, ma, stim channel), add to notes cell
    - If you click on the annotation (red flag) it will give you the time in micro-seconds (seconds \*10^-6), change to seconds before adding
    - To check for stim, press the little back arrow and it will shift back one window, the width of which is determined by the “width(s)” parameter in the top bar
      * A picture containing text, rectangle, font, screenshot

        Description automatically generated
      * HF stim example (20Hz)
        + A picture containing text, sketch, parallel

          Description automatically generated