**MR Imaging Teleconference Minutes 11/19/2019**

**11/19/2019 -- MRI Core Call Agenda Items: 11/19/2019 --** Minutes

1. **MRI Analysis Processing Report – Update – Danielle Harvey**

Nothing new to report.  A updated processing report will be distributed in the next week or two.

1. **ASLs labeled as fMRI – Update - Karen.**

Newly uploaded scans are being classified correctly.  Next step is to put the fix in for previously upload.  May be a few weeks.

1. **2D vs 3D ASL – Update**
   1. Decision was that 2D and 3D ASLs need to be segregated.
      1. Users use 2D vs. 3D search filter?
      2. ADNI Create a collection of 2D and 3D ASLs?

LONI has implemented a 2D or 3D search filter for ASL scans, but scan classified incorrectly (as discussed above) needs to be rectified before this is a feasible solution.

Creating collections is also an option that could be considered.

1. **Paper on Unavoidable technical heterogeneity within sequences.**
   1. Presenting this as a major aim of an ADNI 4 renewal would be very attractive.
      1. Group Authorship
      2. Who should do what?

Discussed. Dr. Gunter will spearhead effort to create a comprehensive paper with considerations on manufacturer/hardware/software/coil/sequence changes seen in ADNI.  Will publish and make available on publically on the LONI website.

1. **Duygu will present her results on structural imaging issues concerning scan heterogeneity.** 
   1. Paul will present in December

Tabled until December.  As a precursor to the above mentioned paper analysis sites will present some of the issues they have seen already in their analysis.

Duygu will present in December

Dr. Thompson will present in January

1. **Reorganizing LONI IDA document display. Update – Karen**

Karen created a IDA Image Analysis Report based on user input from new users.  ADNI will begin organizing data as displayed on page 3 of the attachment.

1. **Publications by each lab on the numeric data they produce.** 
   1. Need a document (spread sheet, PDF?) from each lab that is updated quarterly
      1. Thompson : <https://docs.google.com/spreadsheets/d/1tDkk4aAkB-hamAhaRZhY-tN4aqHe6iMsN1TilwH4mdY/edit?ts=5d5b5ffe#gid=0>
      2. Malone: pdf attached
      3. Mayo: pdf attached
      4. UPenn pdf attached

Dr. Jack would like analysis sites to provide quarterly updates of the use of numeric data that their lab has produced similar to above samples.

1. **Scan Defacing Journal Article (Attached)** 
   1. IDing volunteers via facial reconstruction using MRI data

Discussed recently published article.  ADNI feels that new consent forms should add language to make subjects aware of this potential confidentiality issues arising from new facial recognition programs.

Possible de-facing solutions are being working on by Dr Schwarz and may be implemented in the future for ADNI, but only following extensive testing:  A 2 Tier LONI release was discussed as a future possibility:  1. Standard Defaced 2. Non Defaced – Extra step of scrutiny before allowing users to access full raw scan.

1. **Philips Advanced Protocol Update**
   1. Seeing MB artifact on fMRI and DTI
      1. fMRI
         1. Should we keep TR at 3 seconds (standard fMRI)?
         2. Introduce 1 second TR MB image?
      2. DTI
         1. MB = 4, 2x Phase Acceleration

Carry forward.  Talia from Dr. Thompson’s lab would like examples to see if they are able to rectify artifacts.

1. **Update on # of scans still in quarantine and why.  Update – Mayo/LONI**

Mayo/LONI/ATRI actively working on minimizing scans stuck in quarantine.  Most subjects still in quarantine are missing clinical data in the EDC or have incomplete uploads of MRI data.

To make sure that sites have newly released scans LONI recommends that analysis sites use the button which shows them only data they have not downloaded previously.