**ADNI MR Imaging Teleconference Agenda -- 4/16/2019 -- 11AM Central**

**Ready Access - Teleconference Phone #'s**  
  
US -- 1-866-365-4406

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**ADNI MR Imaging Teleconference Agenda Items:**

1. **Review February 2019 Teleconference Minutes (Appended Below)**
   1. Minutes will be posted to LONI website. - <http://adni.loni.usc.edu/methods/documents/>
2. **ADNI Deliverables Update – Next Set due 4/30**
   1. Update from Danielle Harvey
3. **Updated MRI scanner/subject spreadsheet**
   1. Changes of spreadsheet based on discussion from our last call.
      1. 5 classes of Major changes:
         1. Vendor (Always Major)
         2. Model within Vendor (Unknown – separate color code)
         3. HeadCoil (Always Major)
         4. Software Major (Sometimes Major (When it includes Hardware Change) – (Color Code)
         5. Protocol ADNI2 vs. ADNI3  (T1 Minor/FLAIR Major/HRH Minor/GRE None/ASL Variable, DTI Variable, fMRI Variable) = Enter into a Key
4. **ADNI3 Analysis Site Slides** 
   1. 2 slides from each Analysis group summarizing ADNI3.
5. **ASL Comparison of 2D vs. 3D (Tosun)**
   1. Should we still acquire 2D data?
6. **ADNI3 Breakdown** 
   1. **60/60 Certified Systems**
   2. **998 subjects received. (17 Failed Studies)**
      1. 199 Subjects scans with Siemens VE11C
      2. 412 Subject scans VB17-VE11B
      3. 166 Philips 3.2.3 – 5.4.1
      4. 49 Subject scans with GE 24x
      5. 172 Subject scans with GE 25x-27x
   3. **Experimental Sequence Breakdown**
      1. ***2D PASL vs. 3D PASL vs. 3D pCASL***
         1. Axial 2D PASL – 285
         2. Axial 3D PASL – 389
         3. Axial 3DpCASL - 220
      2. ***Axial rsfMRI vs. Axial MB rsfMRI***
         1. rsfMRI – 806
         2. MultiBand fMRI - 155
      3. ***Axial DTI vs. Axial MB DTI***
         1. DTI – 893
         2. MultiBand DTI – 160
7. **Next Call: 5/21/2019**

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**ADNI MR Imaging Teleconference Minutes -- 3/19/2019**

**03/19/2019 -- MRI Core Call Agenda Items:**

1. **Review February 2019 Teleconference Minutes (Appended Below)**
   1. Minutes will be posted to LONI website. - <http://adni.loni.usc.edu/methods/documents/>

Minutes: Approved

1. **ADNI Deliverables – Past Due**

Minutes: Danielle had asked sites to visit LONI to confirm when last deliverables were sent/received.  In the meantime, Danielle will create a report of what data we have, but encourages all sites to upload their most current data sets to Mike Donahue and LONI.   (Some sites have data hasn’t been updated for a year or more)

1. **Updated MRI scanner/subject spreadsheet [*attachment*]**
   1. List is now a subject level list (1 row for each timepoint).
   2. List is generated programmatically by query of Mayo database any changes are highlighted and categorized.
   3. Any changes in software/hardware are noted as minor (green)/major (red)
   4. Any changes in head coil are noted minor/major
   5. Subject change over from ADNI2 to ADNI3 is noted in as study (orange)
   6. Mayo QC Values have been added to spreadsheet for T1, T2\* and fMRI

Minutes: Reviewed by Bret, please look over, any suggestions are welcome.

1. **Analysis Site QC** 
   1. At the last call, the MRI core agreed that analysis sites would send in their QC quarterly to LONI
   2. Quarterly deliverables will have at least two values:
      1. 1) numeric metric
      2. 2) QC value(s) relevant to processing

Minutes: As discussed at the last call

1. **Advanced Philips protocols are being compiled.** 
   1. R5.3 Systems and higher
      1. 3DpCASL
      2. MB DTI
      3. MB rsfMRI

Minutes: Noted, in addition to above we will be implementing multi echo GRE.

1. **ADNI3 Analysis Site Slides -- Due in April**
   1. Dr. Jack will need slides from each Analysis group summarizing ADNI3 to date.

Minutes: Dr. Jack – requests 2 slides per analysis group summarizing what has been do up to date for ADNI3.

What kind of questions:

1. Correlation between MR and clinical metrics (could be clinical group membership, MMSE, CDR, etc).
   1. Cross-sectional.
   2. Predict clinical change.
   3. Correlation with contemporaneous clinical change
2. Effect of technical factors on correlations in #1 above.
   1. Protocol (ADNI2/ADNI3)
   2. Scanner
   3. Headcoil
   4. Software/Hardware
3. Comparison of Advanced vs. Basic accuracy/effect size for correlations in #1 above.
   1. DTI
   2. fMRI
   3. Different versions of ASL

**DUE DATE: Preliminary version 4/16 (at next call)**

Discussion on spreadsheet for ADNI3 analysis.

5 classes of Major changes:

1. Vendor (Always Major)
2. Model within Vendor (Unknown – separate color code)
3. HeadCoil (Always Major)
4. Software Major (Sometimes Major – Color Code)
5. Protocol ADNI2 vs. ADNI3  (T1 Minor/FLAIR Major/HRH Minor/GRE None/ASL Variable, DTI Variable, fMRI Variable) = Enter into a Key

DeCarli – Some Major Changes are different that others

Jack: Have A,B,C,D types of major. Based on above.

Harvey: In short term.  Treat all major changes as major then dig down later.

1. **ADNI2 Data Lock – Targeting Early June**

Minutes: Noted – Dr. Jack – What this means for MRI Core:, all analysis sites need to have ADNI2 data analysis done, QC’d and posted on LONI.   Begin creating standardized lists (collections) for users.

1. **ADNI3 Breakdown** 
   1. **60/60 Certified Systems**
   2. **962 subjects received. (17 Failed Studies)**
      1. 185 Subjects scans with Siemens VE11C
      2. 404 Subject scans VB17-VE11B
      3. 159 Philips 3.2.3 – 5.4.0
      4. 47 Subject scans with GE 24x
      5. 167 Subject scans with GE 25x-27x
   3. **Experimental Sequence Breakdown**
      1. ***2D PASL vs. 3D PASL vs. 3D pCASL***
         1. Axial 2D PASL – 285
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         2. MultiBand fMRI - 155
      3. ***Axial DTI vs. Axial MB DTI***
         1. DTI – 893
         2. MultiBand DTI – 160

Minutes: Noted

1. **Next meeting: 04/16/2019**