**MR Imaging Teleconference Minutes 02/18/2020**

1. **Review Minutes from the January Call (Below)**

Noted, no changes recommended.

1. **MRI Analysis Processing Report – Update missing data for all labs - Subject ID and Date (Harvey)**
	1. Reminder – All sites should be current with analysis by April 1, to allow time for compiling data to present at May 4th Steering Committee Meeting
	2. DEADLINE - 2 Slides from each lab outlining an analysis they’ve done with ADNI 3 data by April 20.

All analysis labs should have received an email from Danielle with spreadsheets that contain analysis updates/missing data for their lab.

Duygu – Have lots of produced images, which don’t always align with what is on LONI.  Is there a way to track what has been done already at LONI or has been subtracted.

Danielle – They are seeing instances where the images were available and then are not available.

Is something changing over time that causes subjects/images to be no longer available. Duygu – sees this rarely. Will send Bret image ID’s.

Also noticed that there are some ND T1 images that have been selected.  Will send Bret a list.

Deadlines above Noted.

Dr. Jack requests all analysis sites to be as current as possible by 4/1.

Dr. Jack requests all analysis sites send 2 slides outlining their analysis results by 4/20.

Data heterogeneity is probably the most important topic to address (cross-sectionally, and what does it mean when subjects switch vendors/scanners)

1. **Update on Face De-Identification (Jack)**

As discussed previously, the issue of being able to reconstruct individuals face from MRI soft tissue is still a real concern for our research community.  ADNI needs to take this issues seriously as we are directly responsible for honoring the promise of keeping their data confidential.  Schwarz paper in NEJM has demonstrated that this is possible from available software.  Mayo has started defacing images and have proposed to Dr. Weiner that Mayo will continue to deface ADNI subjects before sending to LONI.  However Dr. Weiner didn’t want Mayo subjects to be treated differently and has suggested that all ADNI subjects should be defaced.  This will be brought up at the Steering committee meeting.

Dr. Fox’s and Dr. DeCarli group does a skull strip or dilation/eroding of the 3D data.   Would this work for ADNI.  Schwarz – face transplant allows more downstream analysis to work more successfully.

Fox/DeCarli - Brain to Brain works better for skull stripped data.  Schwarz – not the most used programs (SPM/Freesurfer) work this way.  DeCarli – will data be in DICOM.  Dr. Jack – Yes

Papers Attached from Dr. Schwarz – concerning skull stripping vs. Face replacement techniques.

1. **Updated outline of ADNI history and MR heterogeneity (Gunter) – Attachment to be sent later**

2 Attachments Sent – Protocol and Stability.

Dr. Jack -- Information should not overlap between to the two papers.

1. **Update on ADNI Philips Advanced protocol**
	1. DTI will change from 1-3 shells
	2. ASL moves from 2D PASL to 3D pCASL
	3. Move to 3TE Axial GRE
		1. Plan is to move forward with the change.

fMRI Multiband would not be equivalent to what Siemens Prisma is offering as far as TR and there is a multi-slice artifact seen.  There is also a large number of subjects who have been scanned with the 3000 TR and not changing it always from continued data collection.

DTI – not possible to get the same number of phase encoding as seen is Prisma but does allow for multi-shell.

ASL – 3D pCASL is best ASL sequence available, so makes sense to move to that way as Duygu recommends.

GRE – Move to 3TE – Saving Phase/Frequency.  Nothing lost by making this change.

MRI Core – No objections.

1. **ADNI3 Memo: ADNI Acknowledgement List**
	1. Please let Bret Borowski know if any updates/changes are necessary.

**MRI Core Leaders and Key Personnel**

Clifford R. Jack, Jr., MD Mayo Clinic, Rochester (Core PI)

Arvin Forghanian-Arani, PhD Mayo Clinic

Bret Borowski, RTR Mayo Clinic

Chad Ward, Mayo Clinic

Christopher Schwarz, PhD Mayo Clinic

David Jones, MD Mayo Clinic

Jeff Gunter, PhD Mayo Clinic

Kejal Kantarci, MD Mayo Clinic

Matthew Senjem, MS Mayo Clinic

Prashanthi Vemuri, PhD Mayo Clinic

Robert Reid, PhD Mayo Clinic

Nick C. Fox, MD, University College London

Ian Malone, PhD University College London

Paul Thompson, PhD USC School of Medicine

Sophia I. Thomopoulos, B.S. - USC School of Medicine

Talia M. Nir, Ph.D. - USC School of Medicine

Neda Jahanshad, Ph.D. - USC School of Medicine

Charles DeCarli, MD UC Davis

Alexander Knaack, M.S UC Davis

Evan Fletcher, PhD UC Davis

Danielle Harvey, PhD UC Davis

Duygu Tosun-Turgut, PhD, PhD UCSF

Karen Crawford, USC School of Medicine

Paul A. Yushkevich, Ph.D University of Pennsylvania

Sandhitsu Das, PhD University of Pennsylvania

Ranjit Ittyerah, University of Pennsylvania

MRI Core – 2 days to make any changes.

1. **DTI Harmonization Presentation (Thompson - Postponed until March Call)**

Noted

1. **Next Call 3/17/202**
	1. Will be changing to GotoMeeting
	2. Phone number and web conference link will be changing.
	3. Will update the invite prior to next call.

Noted