

SPAN MRI

From: **Ayata, Cenk, M.D.** | CAYATA@mgh.harvard.edu

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4:32 AM

To: **Leira, Enrique C** | enrique-leira@uiowa.edu, **Aronowski, Jaroslaw** | J.Aronowski@uth.tmc.edu, **McCullough, Louise D** | louise.d.mccullough@uth.tmc.edu, **Raymond Koehler** | rkoehler@jhmi.edu, **dhess@augusta.edu** | dhess@augusta.edu, **Sansing, Lauren** | lauren.sansing@yale.edu

Cc: **Fahmeed Hyder** | fahmeed.hyder@yale.edu, **Basavaraju Sanganahalli** | basavaraju.ganganna@yale.edu, **Joe Mandeville** | jbm@nmr.mgh.harvard.edu, **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu, **Patrick Lyden (USC)** | plyden@usc.edu, **Karisma Nagarkatti (USC)** | nagarkat@usc.edu

Good morning,

During the screening of MRIs we noticed that the total brain volumes significantly differed among the sites but were consistent within each site. Given that we are using the same strain, source and age/sex across the network, the cause is likely technical.

Fahmeed and Joe suggested the following solution: Acquire T2 images (identical SPAN protocol) of a well identified phantom (e.g., a falcon tube). Given the known FOV (e.g., 19.2mm), please measure the exact diameter of the tube (e.g., 13mm). If the tube appears different in size than expected, please send us the correction factor. Accuracy is critical.

The reason for site-difference may be related to gradient calibration. Please do not re-calibrate during the SPAN study. We will use your volume correction factor on our end to adjust image registration for each site.

We need this information from each site as soon as possible to finalize the automated image analysis pipeline (Yale has already performed this test). Please let us know if you have any questions, suggestions or concerns.

Regards,
SPAN MRI group

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