

Re: SPAN MRI regroup

From: **Fahmeed Hyder** | fahmeed.hyder@yale.edu

Sunday, Mar 7,
4:59 PM

To: **Cenk Ayata** | CAYATA@mgh.harvard.edu, **Joe Mandeville** | jbm@nmr.mgh.harvard.edu, **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu
Cc: **Basavaraju Sanganahalli** | basavaraju.ganganna@yale.edu

Dear all,

We need to scale up the MRI volume for Yale by ~8.7%. We should ask Iowa to check their spatial resolution more carefully too. For now, we will leave our scanning as is with the caveat that Ryan will scale our work by this fraction. Thanks.

Best,

Fahmeed

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

Sunday, Mar 7, 6:15 PM

To: **Fahmeed Hyder** | fahmeed.hyder@yale.edu
Cc: **Joe Mandeville** | jbm@nmr.mgh.harvard.edu, **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu, **Basavaraju Sanganahalli** | basavaraju.ganganna@yale.edu

Thanks, Fahmeed, would you be able to draft an email to Iowa on behalf of the MRI group, explaining the issue and how to replicate what you did at Yale? I am not sure who the MRI expert there is, but I can make sure it gets into the right hands and for any lingering questions we can have a brief chat.

I wonder if this is something that needs to be done by all sites? It would take away a fair bit of intersite variability in absolute volumetric data.

C

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From: **Fahmeed Hyder** | fahmeed.hyder@yale.edu

Sunday, Mar 7, 6:33 PM

To: **Cenk Ayata** | CAYATA@mgh.harvard.edu

Cc: **Joe Mandeville** | jbm@nmr.mgh.harvard.edu, **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu, **Basavaraju Sangannahalli** | basavaraju.ganganna@yale.edu

How about this?

To whom it may concern:

Please note that MRI data from each site has shown some minor comparative differences in brain volumes. Your site is one of them. We recommend that you simply 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 inform of us the correction factor necessary. The reasons for this could be some readjustment of gradient calibration. However that re-calibration is not necessary during the SPAN study. For image registration, we simply need the volume correction factor. Please let us know if you have any questions. Thanks in advance for your attention and cooperation in this matter.

Regards,
SPAN MRI group

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

Monday, Mar 8, 4:00 AM

To: **Fahmeed Hyder** | fahmeed.hyder@yale.edu

Cc: **Joe Mandeville** | jbm@nmr.mgh.harvard.edu, **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu, **Basavaraju Sangannahalli** | basavaraju.ganganna@yale.edu

Excellent, thanks. Stand by, I will cc you all on the message.

C

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