

# RE: Lyden Lab MRI scans 7/20-7/21 uploaded

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From: **Patrick Lyden** | plyden@usc.edu

Friday, Jul 23, 3:16 PM

To: **Karisma A Nagarkatti** | nagarkat@usc.edu, **Padmesh Rajput** | prajput@usc.edu

Cc: **Jessica Lamb** | lambj@usc.edu, **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Thank you Karisma. For a lot of them, the species is listed as “human”. Are these the mice?

Padmesh, the field “Series description” is not picking up the filename you sued. I wonder if there is a way to deal with this.

Ryan, can you let me know if one or two of the uploads will traverse the SPAN pipeline in their current format? Don't want to waste your time, but if they run, I would like to run them all. If not, then we have to wait. We may need to look at a few together to see what is what.

Thanks,

P

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From: **Karisma A Nagarkatti** | nagarkat@usc.edu

To: **Patrick Lyden** | plyden@usc.edu

Friday, Jul 23, 11:58 AM

Hi Dr. Lyden and Padmesh,

This email is to notify you that the MRI scans for surgeries conducted on 7/19 and 7/20 have been uploaded into IDA.

Thanks,  
Karisma

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From: **Padmesh Rajput** | prajput@usc.edu

Friday, Jul 23, 3:28 PM

To: **Patrick Lyden** | plyden@usc.edu

Cc: **Karisma A Nagarkatti** | nagarkat@usc.edu, **Jessica Lamb** | lambj@usc.edu, **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

The screenshot I am attaching shows that it has all the information in the images

0010,0010 Patient's Name: Lyden\_4223A  
0010,0020 Patient ID: 1776  
0010,0030 Patient's Birth Date: 20210720  
0010,0040 Patient's Sex: M  
0010,1010 Patient's Age: 0  
0010,1030 Patient's Weight: 0.040kg  
0010,2210 ---: QUADRUPED  
0010,4000 Patient Comments:  
0018,0024 Sequence Name: mouse\_epiDWI\_0516\_z\_vertread  
0018,0050 Slice Thickness: 0.50  
0018,0080 Repetition Time: 1000.000  
0018,0081 Echo Time: 0.025  
0018,0083 Number of Averages: 1  
0018,0084 Imaging Frequency: 298.0307  
0018,0087 Magnetic Field Strength: 7.000  
0018,0088 Spacing Between Slices: 0.50  
0018,0091 Echo Train Length: 1  
0018,1000 Device Serial Number: 1042.17.1  
0018,1020 Software Versions(s): UserInterfaces v4.0.2.32  
0018,1030 Protocol Name: mouse\_epiDWI\_0516\_z\_vertread  
0018,1060 Trigger Time: 0  
0018,1149 Field of View Dimensions(s): 15.00\10.00\ 0.50  
0018,1310 Acquisition Matrix: 128 0 0 128

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From: **Patrick Lyden** | plyden@usc.edu

Friday, Jul 23, 3:35 PM

To: **Padmesh Rajput** | prajput@usc.edu

Cc: **Karisma A Nagarkatti** | nagarkat@usc.edu, **Jessica Lamb** | lambj@usc.edu, **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Karisma, can you send to Padmesh the SPAN MRI SOP so he can see how to label the files before upload.

From: **Padmesh Rajput** | prajput@usc.edu

To: **Patrick Lyden** | plyden@usc.edu

Friday, Jul 23, 3:29 PM

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From: **Ryan Cabeen** | ryan.cabeen@loni.usc.edu

Friday, Jul 23, 3:53 PM

To: **Karisma A Nagarkatti** | nagarkat@usc.edu, **Padmesh Rajput** | prajput@usc.edu, **Patrick Lyden** | plyden@usc.edu

Cc: **Jessica Lamb** | lambj@usc.edu

I think they will require some tweaking to go through the pipeline. We'll have to manually rename to fit the expectations of the pipeline, and if we follow the naming conventions in the SOP, then later scans should run without having to rename.

I see two other potential issues in the DWI scan: one is that the DWI is shifted laterally relative to the T2 and FSE images. The image grids are aligned though, so I think this is probably due to the details of image reconstruction and not physical motion. Should be fixable, but I will need to see if there is a constant shift, or if we need to apply a more flexible registration step. The other issue is that the SNR of the DWI seems quite low compare to SPAN data. Not sure how this will effect the pipeline, but we can visually inspect the resulting ADC maps to see.

Ryan P. Cabeen, PhD  
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Web: [cabeen.io](http://cabeen.io)  
[www.ini.usc.edu](http://www.ini.usc.edu)

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