RE: new data

From: Patrick Lyden | plyden@usc.edu

Tuesday, Jul 13, 9:22 AM

To: Ryan Cabeen | Ryan.Cabeen@loni.usc.edu

Cenck thinks you sent me new data. I don't have them. Can you send? We are on the PI call.

Patrick D. Lyden, MD, FAAN, FAHA, FANA Professor of Physiology and Neuroscience Professor of Neurology Zilkha Neurogenetic Institute USC Keck School of Medicine of USC

O: (323) 442-3917 ZNI 245 MC 2821 1501 San Pablo Street Los Angeles, CA 90089-2821

plyden@usc.edu

From: Ryan Cabeen | Ryan.Cabeen@loni.usc.edu

Tuesday, Jul 13, 9:26 AM

To: Patrick Lyden | plyden@usc.edu

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From: Patrick Lyden | plyden@usc.edu

Wednesday, Jul 21, 2:21 PM

To: Ryan Cabeen | Ryan.Cabeen@loni.usc.edu

We lost our sump pump, water heater and internet, which isn't even in the basement! All good now and we're back in LA. Thanks for asking

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<SPAN-Stage1-DataTable-2021-07-20.csv>

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From: Patrick Lyden | plyden@usc.edu

Friday, Jul 23, 7:47 AM

To: Ryan Cabeen | Ryan.Cabeen@loni.usc.edu

Yes please, and Marcio is out of the country anyway. I am free tomorrow (Saturday), but then I will be taking a short Vacation sun to Wednesday. What would work for you on Saturday or Friday, 7/30

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From: Patrick Lyden | plyden@usc.edu

Sunday, Jul 18, 4:28 AM

Thank you. Couple of questions:

What are the new variables "regions_volume_lesion_(striatum, cortex, thalamus, hippocampus)"?

Have you sent this to Marcio or cenk?

From: Ryan Cabeen | Ryan.Cabeen@loni.usc.edu To: Patrick Lyden | plyden@usc.edu Wednesday, Jul 14, 2:18 AM

Following up, attached please find an updated data table, as well as associated tissue volume plots. The changes to the pipeline include:

- * A more restrictive region where lesion is allowed to be detected. This removes what we concluded to be a systematic artifact in basal part of the brain.
- * A more permissive lesion threshold which provides more sensitivity to small lesions (also increasing lesion size overall)

FYI, these changes came out of a few meetings with Cenk, were we looked at lesion maps and the results of a "parameter sweep", in which I exhaustively computed the lesion volumes obtained from of a sequence of threshold values in all of the stage one data. Happy to go over those pieces in detail if you'd like.

Ryan P. Cabeen, PhD

Chan Zuckerberg Imaging Scientist

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From: Patrick Lyden | plyden@usc.edu

Tuesday, Jul 13, 10:50 AM

Ok great.

From: Ryan Cabeen |

To: Patrick Lyden

Tuesday, Jul 13, 12:26

Ryan.Cabeen@loni.usc.edu

plyden@usc.edu

PM

Sorry, we discussed sending an update Thursday, but there was a power outage at SHN over the weekend, so things were delayed a bit from that. I'll send it along hopefully this afternoon, or tomorrow at the latest.

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From: Patrick Lyden | plyden@usc.edu

Tuesday, Jul 13, 9:22 AM

Cenck thinks you sent me new data. I don't have them. Can you send? We are on the PI call.

Patrick D. Lyden, MD, FAAN, FAHA, FANA

Professor of Physiology and Neuroscience

Professor of Neurology

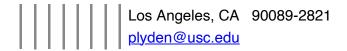
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From: Ryan Cabeen | ryan.cabeen@loni.usc.edu

Friday, Jul 23, 1:14 PM

To: Patrick Lyden | plyden@usc.edu

I'm taking a weekend trip up to eastern Sierra myself, but Friday 7/30 would work well. Does either 11am or after 2pm happen to work for you?

Also, Cenk asked to meet to review TTC annotations from 9am-11am that day, and I can send a zoom link if you'd like to join for that as well.

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From: Patrick Lyden | plyden@usc.edu

Friday, Jul 23, 7:47 AM

Yes please, and Marcio is out of the country anyway. I am free tomorrow (Saturday), but then I will be taking a short Vacation sun to Wednesday. What would work for you on Saturday or Friday, 7/30

From: Ryan Cabeen | Ryan.Cabeen@loni.usc.edu

To: Patrick Lyden | plyden@usc.edu

Thursday, Jul 22, 5:29 PM

Sounds like a good plan! I do have the corner test data for that analysis, so I'll work on making those 3D maps that account for other variables as well. Perhaps we can briefly discuss the results once I've made a first pass, and then subsequently share with Marcio for his guidance as you see fit?

Glad to hear that the flooding complications were manageable and folks are safe, welcome back

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From: Patrick Lyden | plyden@usc.edu

Wednesday, Jul 21, 4:22 PM

Very interesting.

Do you still have the corner test data? The question would be, can you explain more variance in the corner test "alternative" index by using the hippocampus and thalamus, along with cortex and striatum. Also, I would be most interested in a map, such as the 3d map you made showing lesion densities in striatum vs cortex. But if you could swing it, a multivariable model incorporating all the lesion variables, plus site and sex, would be what we are waiting for from Marcio.

We can chat by phone about all of this as well.

Do please send to Marcio, although he is not back from vacation yet. Do not share with Cenk just yet please.

Many thanks

From: Ryan Cabeen | Ryan.Cabeen@loni.usc.edu To: Patrick Lyden | plyden@usc.edu Tuesday, Jul 20, 6:32 PM

Those variables are the volume of lesion overlapping with each of the listed regions, that is, what we added to compare cortical vs subcortical lesion extent.

I haven't shared with Cenk or Marcio yet, wanted to go through you first. I can send it along to them if you like. Also, I made a couple more refinements which are reflected in the attached data table.

Also, heard there was some flooding in western Mass, hope you are comfortably dry!

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