

Control limits for Stage 2

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

Tuesday, Jun 22,
12:26 PM

To: **Diniz, Marcio A** | Marcio.Diniz@cshs.org, '**Andre Rogatko (Andre.Rogatko@cshs.org)**' |

Andre.Rogatko@cshs.org, **Ryan Cabeen** | Ryan.Cabeen@loni.usc.edu

Cc: **Jessica Lamb** | jlambj@usc.edu, **Karisma A Nagarkatti** | nagarkat@usc.edu

Marcio and Ryan,

As you may recall, we got into trouble in Stage 1 because we did not provide the sites timely feedback on their Day-2 lesion volumes, and two sites wandered out of control. I would like to be setting up the control limits for Stage 2. I believe we agreed to use the IV/IP control subjects from Stage 1. However, upon further reflection, I think it is more nuanced. First of all, we are waiting for the statistical comparison of IV vs IP controls vs RIC SHAM. Hopefully they will be concordant. Then there is the issue of JH. I think we should construct the Stage 2 control limits using all 3 control groups, excluding JH. I prefer one set of control limits for the entire network, even though we did briefly discuss site-specific control limits.

Finally, to compare rats and mice on the same graph, we would need to use stroke FRACTION, rather than actual lesion volume. There are several formulae to use. If possible, the best would be Day-2 lesion volume divided by contralateral hemisphere. Ryan, can you remind me what the variable names are in the output file you generate?

To make all this work, we need to be sure the sites upload their MRI weekly. That Ryan runs the pipeline often and sends the data in CSV to Marcio (and to Karisma for archiving). That Marcio directs Sungjin to produce the Control Limits graph on a timely basis. I hope we can produce a report every 2 weeks. We are drafting an SOP to codify this plan.

What do you all think?

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

Wednesday, Jun 23,
10:27 PM

To: **Diniz, Marcio A** | Marcio.Diniz@cshs.org, '**Andre Rogatko (Andre.Rogatko@cshs.org)**' | Andre.Rogatko@cshs.org, **Patrick Lyden** | plyden@usc.edu

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Sounds good and doable — attached is a copy of the data dictionary. The lesion volume is “volume_lesion” and the left and right hemisphere volumes are “midline_tissue_volume_left” and “midline_tissue_volume_right” respectively.

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