Analyses from beginning to end

Day 4

Jason Lerch

Hello World

Only a few slides today - most time will be taken up in interactive data analysis

The presentation

First note: room change. Rather than the exam centre, we'll meet in PMH 7-605 (same as day 1) for the presentation. We can then either have the exam there too or move to the exam centre.

No need to create a presentation - just make sure to have sent your html output from today's assignment.

2 minutes to present your core conclusions.

1-2 minutes of questions from me.

The assignment

Take the "real" data, and

(1) Analyze with the pre-registered plan from yesterday.

(2) Reanalyze with any updated analyses you want to explore.

(3) Describe your recommendation regarding whether the new therapeutic is worth adopting and why.

Note: each group has different data this time; get your data here

https://jasonlerch.github.io/MBP-stats-2019/last-assignment-data/Yates.csv

(replacing "Yates" with your group name)

The exam

14 questions

Very similar in style to what you've seen from the quizzes

Includes interpreting of plots, interpreting of linear model outputs, true/false and multiple choice questions on p values, multiple comparisons, data splitting, statistical power, and the crisis of replication.

No R coding required.

No formula's need memorizing.

Nothing new from today - today is revisiting what we've discussed the last three days

Nothing from the papers except what was explicitly discussed in class.