

COSC6323 - Exercise 2

February 2021

Instructions

Your friend from the medical department asked for your help with the project. You have to compare an outcome between two groups.

Specifically:

1. compare infants birth weight between smoking and non-smoking mothers
2. compare infants birth weight between a group of mothers with a presence of uterine irritability and a group of mothers without it

You need to run hypothesis tests to assess whether the trends you observe from the descriptive analysis are statistically significant. Use `MASS::birthwt` dataset. Prepare one small report using the R markdown. Include in the report your code, comments on the output of the tests and brief summary (Example: "Our study finds that birth weights are on average ??? in the non-smoking group compared to the smoking group (t-statistic ??, p=??, ??% CI [??, ??]g)").

Luckily, you have sample code from the class with a similar problem review (Lesson3_Exc2_draft.R at the class GitHub repository). Just remember that you have to give a more detailed summary (compared to the example) for this exercise.

Good luck! :)

REPORT CONTENT:

1. code
2. commented output of the hypothesis test
3. your summary for the described problems

SUBMIT:

1. `FirstName.LastName.rmd`
2. `FirstName.LastName.pdf`