

Nov 14 BOSTAT653 Final Project Group Meeting #2

Procedures:

Coding

1. data pre-processing
 - a. visualization (summary statistics table)
2. gee model fitting
3. sensitivity analysis

Report

1. summary
 2. introduction
 3. background + related study + novelty
 4. data pre-processing
 5. method
 - a. inclusion criteria
 - b. covariates and predictor outcome
 - c. method (GEE, academic) + model justification
 6. result
 7. discussion + limitation (missing data) + future work
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Task Assignment:

1. [Xgy] data pre-processing visualizations(多) + data description/processing report + model diagnosis (QQ-plot, etc.)
2. [Zwx] GEE model fitting, sensitivity analysis
 - a. Report: inclusion criteria + covariates and outcome predictors + method section + visualizations(少) + overleaf tables
3. [Cindy] Report introduction + novelty + results + 帮2 + why GEE (model justification)
4. [Zyc] Report discussion + limitation + future work + 帮2 这两人可以商量一下

Reports:

- Overleaf template: <https://www.overleaf.com/6548843136sbgvkfxmtqqj#403c98>

Slides:

- 四个人都参加;各自做各自的part

Project Instructions:

- 1) Please prepare a 12-minute (strict) presentation to describe your findings. This can be given by one person in the group or collectively but if not given collectively, it should be clear how each individual contributed to the project. We will then have 3 minutes for questions from your classmates and the instructor. All members of the group should participate in the question session.
- 2) Please add your link to slides (**no more than 10 slides, excluding title page and thank you page**) in Column K prior to the first presentation on your team's designated day
- 3) The order of presentations will be randomly generated
- 4) **A 10-page (maximum; excluding figures, tables and references) final report for your team's project** will be due 11:59pm, Dec 15th. Please submit it to Canvas as a single pdf file.
- 5) By default, we will assign a same score for each team member (counted towards a maximum of 40% of the final grade - 37% for the final project report; 3% for the proposal). Otherwise, please send the instructor an email about alternative preferred ways of assessing individual contributions (need to be specific about who contributed to which sections).
- 6) No exceptions to the due date will be made.
- 7) Your grades for the project will be a combination of 1) the final report (80% weight) and 2) the presentation (20% weight), and will be available to you prior to your final exam.
 - 7i) In your final report, please include the following sections:
 - 1) Introduction
 - 2) Methods
 - 3) Results
 - 4) Discussion
 - 7ii) In your final presentation, please at least prepare the following parts:

- a) Introduction of the problem and data to address this problem
- b) Methods to address this problem
- c) Results based on your methods
- d) Discussion
- e) Q&A

For both pieces the criteria for grading will be:

- 10% Description of scientific question, statement of aims,
- 20% Description of analytic approach
- 20% Use of data
- 30% Appropriate use of concepts and/or methods from class
- 10% Interpretation of results for use in public health decision making/general scientific implications
- 10% Quality of presentation (writing in the report/ delivery in the oral presentation)