

Project Description:

In the ProblemSet4 folder you will find the Nepal infant data set, codebook and a paper about the study that addresses the question of whether vitamin A affects infant mortality.

Pose a **different**, interesting question about infant mortality in the Sarlahi district of Nepal that also has potential importance to public health. Questions about the average treatment effect across all children in the trial, already published, are not allowed.

Your assignment!

As stated above, the goal of this project is to pose and analyze an important public health question relating to infant mortality in the Sarlahi district of Nepal. As a first step, review the available variables/data and propose a specific hypothesis/research question that you will address. After which, design and conduct a careful analysis **to address your hypothesis/question**. (Remember: Question, Question, Question!). Write, for a public health audience, up to but not exceeding a two-page report (including a maximum of 3 figures/tables; do not count your figures/tables as space in your two-page report).

Your report should include:

- Objective: The question including a statement of its public health significance
- Methods: Your specific analysis approach. We will be evaluating whether your analysis approach is consistent with your stated objective AND based on the details provided, we could replicate your analysis.
- Results: Your findings! Be numerate. We will be evaluating whether you present informative descriptive statistics of the data and results from your analysis approach. Keep statistical jargon to a minimum.
- Discussion: Concisely summarize your findings AND comment on at least one assumption you have made in the analysis that you feel may not hold and describe alternative approaches that may be considered to address your objective.

Submit a .pdf of your two page report (plus tables and figure) called: *lastname.report.pdf* and your reproducible code in *lastname.Rmd* along with your signed Academic Integrity Statement in *lastname.integrity.pdf*

Enjoy the work and produce a report that demonstrates your understanding and skills developed during the past year, supported by the 650 series.

NOTE: This year has been long and most of us, me included, need a break. With this in mind, select an objective for this project that you believe you can address in a reasonable number of hours. Utilize the discussion section of the report to comment on assumptions you have made and would like to explore further or more complicated methods that could have also been utilized. In other words, keep it simple on this one!

Due date: **Friday, May 21 by 5:00pm**

Rules of Engagement

Similar to the homework assignments, you may collaborate with your classmates on the final project; however, you must write up your own report.

If you decide to work with classmates, you must acknowledge them in your Academic Integrity Statement.

Academic Integrity Statement:

_____ My work on this project is my own and I have not consulted others about either the specific analysis or the report.

_____ My research question formulation and analysis/computing on this project was completed in collaboration with the students listed below. I wrote the report for this project without input or consultation from any classmates.

Please return this signed form with your

Name: _____

Signature: _____