

## Choosing an Analysis for Case 2

Take a few minutes to remember what the scientific questions are in this study. How might we translate these questions into statistical language?

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List some aspects of the study design and data collection that should be considered when thinking about analyses that might answer the questions.

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Brainstorm some ways to analyze the data that addresses these concerns.

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What specific outcomes/deliverables do you think the client would like to have?

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## Homework, Case Study 2: completed work due Feb 27

You will be writing a project proposal for analyzing the data from the case study we've been discussing in class. Here are the steps in this assignment.

1. Draft background/study design (done already, assigned Feb 6). Plan and draft the background/goals and study design sections of a consulting proposal for this client. Try to have some planning done by Monday Feb 9 so we can discuss further as needed. On Wed Feb 11 please bring to class your first draft, double-spaced (and stapled, if on more than one page). You are encouraged to work with others on the planning stage, but please do the drafting independently.
2. Revise/edit the background/study design. Be sure to consider the revision techniques and principles we've been discussing. There's no need to specifically underline every subject/verb/old/new unless it is helpful to you, but please do some revisions and editing directly on a printed copy of your draft so I can see how you interact with your own work. (assigned Feb 11)
3. Plan and draft the analysis plan and outcomes/deliverables section. (**assigned Feb 13**) Again, you are encouraged to work with others on the planning stage, but please do the drafting independently. (You won't be asked to perform the analysis you propose.)
4. Revise/edit the analysis plan and outcomes/deliverables. Again, please do some editing directly on a printed copy of your draft. (**assigned Feb 13**)
5. Write (using the four steps in the writing process) the remaining sections of the proposal. (assigned Feb 18)
6. Finalize your drafts of all of the above and assemble into a single document. Please follow formatting similar to my example of Feb 4. I'll especially look for the study title, name of client, and your name on the first page, section titles bolded or somehow set apart, and good choices for font (usually, a simple serif font for body text) and spacing (make sure there's enough space between the lines and sections to make reading easy).

On Feb 27, please turn in, all stapled together, your completed project proposal and drafts of the first four sections with some editing directly on them so I can see how you interact with your drafts.

### Guidelines for Additional Sections assigned Feb 13:

**Analysis Plan:** Explain clearly enough your plan so that another statistician would be able to recreate the analysis. Technical terms will surely be necessary. For this particular part, think of another statistician as the audience, so it can be technical. Also explain why this analysis is reasonable for answering the subject matter question. This part should be fully understandable by the client. What software will be used?

**Outcomes/Deliverables:** State clearly exactly what outcomes will be given to the client and in what form. This may include formal/informal reports, statistical output, graphics, or presentations. For output, it's not enough to simply say "the output from a regression"; state instead that for each term in the model, coefficients, p-values, 95% confidence intervals will be reported.

Name: \_\_\_\_\_

What aspect of the study design do you think is the most difficult to properly account for?  
What makes it difficult?

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