Client 24-109

Meeting: 10/30/24 (Wednesday 10:30 AM)

Current Stage: Design (No data collected)

Expected Completion Date: 11/4/2024

Goal: Journal Article, Grant proposal, Undergraduate Honor thesis

Contact: No

Important Deadlines: Client is conducting a survey of categorical data and are trying to determine a power analysis for a grant application

**Background:**

* The client is an undergraduate student from nutrition sciences doing an undergraduate honor’s project with her professor. They created a survey for inpatient dietitians to see how they handle people with chronic kidney disease. The client is working with primarily descriptive data, and they are looking to compare data (categorical) within a training and practice setting. The client and her research advisor are seeking help to do power analysis for a grant application. The client is presently taking STAT 301 and is not confident with the power analysis calculations for this survey.

Survey Notes:

* Continuous variables will be binned into meaningful categories based on responses.
* The survey is mostly collecting descriptive categorical data about 30 questions ranging from multiple choice, selecting all that apply, and text input.
  + The survey has the assumption that the taker is either a dietician or is a hospital administrator who has a staff of dieticians.

**Research Questions fr****om Client:**

* Power Analysis
  + This was the only thing the client was interested in. I am interpreting this as: How to conduct power analysis for this survey, as well as what is the smallest sample size needed to get significant results.

**Statistical Issues:**

* Power analysis and perhaps double checking out analysis plan.
  + Analysis plan is missing from application.

**Discussion Points:**

* What is their analysis plan? What exactly are they trying to solve with this survey?
* Did they get IRB approval yet? Are they getting the grant first before IRB approval?
* Is the training setting more of an educational setting for students, and practical setting is operational clinics?
* What is the significant rate they are assuming for the analysis.