**Statistical Design Consulting**

**SEMESTER REPORT**

**Fall 2024**

**Client:** Kara Shields  **File Number:** 24-109

**Department:** Nutrition Science **Major Prof:** Dr. Brandon Kistler

**Consultant:** Sumeeth Guda **Initial Meeting Date:** 10/30/24

**Meeting Attendees:** Kara Shields, Sumeeth Guda, Dr, Brandon Kistler, Dr. Chong Gu

**Statement of Problem:** To determine how chronic kidney disease treatment policies are influenced by dietician experience and clinic location

**Goal of This Project:** Journal Publication, Grant Application, Undergraduate Senior Thesis

**Background:**

The client is an undergraduate student from Nutrition Science 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 a 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.

**Progress During Current Semester:**

Even though this project is in the design phase for the survey, ultimately there are a lot of concerns about it since we weren’t able to make a lot of progress this semester. The first issue was that this project is not an experiment but rather an observational study, and even more so the client did not have a specific hypothesis planned yet so at the current moment we are not able to do power analysis calculations for her. Regarding the IRB application, the client should look at previous studies and cite the number of participants which they used. Additionally, their scope was too wide for us to analyze, so it was recommended that they only focus on one locality such as only Indiana clinics to give the survey to. Lastly since they don’t have direct access to practicing dieticians and clinic systems, ultimately it will be hard to get responses for the survey.

It was recommended to the client to come up with a specific hypothesis and research questions before letting the consultant know so that we can discuss the analysis approaches. However, for the spring semester, she will still be in the design phase and will collect data during the summer 2025 semester. So, for the time being she will be a continuing client.

**Current Status: Continuing.**