Trans Health in Cancer Genetic Counseling

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1. Background and Data Format
   1. Project Overview

We get this project from our client, Tala Berro, a second-year genetic counseling student at Boston University. This project is her master’s thesis and is about cancer genetic counselors' anticipated behaviors when counseling transgender patients. Study participation involves a brief web-based survey and the participants are generated from genetic counselors in the Cancer Special Interest Group.

Factors we included in our consulting project:

Four cases studies (multiple choices):

Participants’ answers

Correct answers (provided by our client)

Demographics of participants

Participants’ clinician experience

The aim of our consulting: Calculate the percentage of correctness of each participant for each case and analyze results covariant with participants’ demographics and clinician experience.

* 1. Data Management

In this project, we use the Jaccard index, which measures similarity between finite sample sets, as our dependent variable. We calculate our Jaccard index using the size of the intersection of participants’ responses and correct answers, divided by the size of their union. Other variables, such as age, gender, number of years spent working in a cancer setting, serve as covariates to fit models.

1.3 Conclusion