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College Student Awareness of Fetal Alcohol Spectrum Disorders

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Micah Bernard, Kale Hanavan, Vineeta Rao, Jacob Shaffer, Katherine Woodard, Dominic Yeboah, Dr. Phillip Thornton, RPh, PhD.

STATEMENT OF THE PROBLEM

Background

- Fetal Alcohol Spectrum Disorders (FASDs) include a broad spectrum of fetal birth defects caused by alcohol consumption during pregnancy¹
- FASDs affect up to 5% of Americans, and there is no cure¹
- FASDs are 100% preventable by abstaining from alcohol during pregnancy²
- Lack of education plays a major role in the incidence of FASDs¹
- Few people are aware of the consequences of drinking alcohol during pregnancy^{3,4,5}
- Researchers have performed clinical interventions demonstrating expecting mothers' willingness to modify alcohol use after receiving education 1,3,4,5

Significance of the Problem

- Little published research specifically evaluating college students' knowledge of FASDs or on their attitudes as a whole toward drinking when pregnant or when likely to become pregnant
- Our project aims to address this gap so health care providers can more effectively target this demographic with needed interventions

OBJECTIVE

To determine the knowledge of college students regarding alcohol use during pregnancy and when at risk of pregnancy both before and after a presentation on FASDs and their willingness to modify their behaviors regarding alcohol use.

HYPOTHESES

- H1: There will be a statistically significant difference in college students' knowledge about FASDs after a presentation on FASDs.
- H2: There will be a statistically significant difference in the number of college students who self-report they are willing to modify their alcohol use when pregnant or likely to become pregnant than those who self-report that they would make no change.

PROJECT TIMELINE

2016

- Visit Schools
- Present
- Collect Data

2017

- Analyze Data
- Determine

Significance

2018

Presentation of project

PROPOSED METHODS

Study Design

- Pre-Test/Post-Test Observational
- Pre-Test given at baseline
- Post-Test given immediately after intervention

Sample

- Convenience Sample
- Adults ages 18+ enrolled in an undergraduate or graduate program

Intervention

 5 minute-long video presentation explaining the nature of FASDs and the consequences of drinking during pregnancy

Data Collection

- Pre- and post-test consisting of questions about demographics, awareness of FASDs, and attitudes toward drinking
- Tests will be administered before and after watching a video presentation on FASDs.
- Questions developed from previous FASDs surveys^{4,5}

Measurements

- Knowledge of FASDs
- Willingness to modify alcohol consumption if pregnant or likely to become pregnant.

PROPOSED ANALYSES

We will be using **SPSS**, where we will enter our data then run descriptive statistics and a Shapiro-Wilk test to determine if the data is distributed normally. For normal distribution, we will be running paired **t-tests** between the pre and post tests; if the data is not normal, we will run a Wilcoxon-signed rank test. We determined our statistics based on the fact that we are analyzing one group at two different points in time. The significance criterion will be an alpha less than 0.05. We will also look for trends in demographics and attitude/knowledge.

LIMITATIONS

Age and
Geographic
Generalizability

Self-Reported results taken immediately after intervention

Convenience sampling method

FUTURE DIRECTIONS

- → What methods can healthcare providers utilize to effectively educate college students on prevention of FASDs?
- → Can similar interventions be used to effectively promote awareness of FASDs in populations not included in our study?

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