PRESCRIBING PASSION

MEDICAL EXPERIENCES INFLUENCE ON STUDENTS' RELATIONSHIP WITH SCIENCE FROM PRE AND POST SEMESTER SURVEYS AT AN OPEN-ENROLLMENT INSTITUTION

16 Nov. 2023

Porter Bischoff









INTRODUCTION

OVERVIEW

Connections to STEM:

- 1.STEM success linked to community ties (Estrada et. al, 2011).
- 2. Strong science community connection boosts success (Christe et. al, 2013).
- 3.STEM success influenced by community ties, identity, and engagement (Nadelson et. al, 2017).
- 4. Vital STEM community connection for underserved students (Chemers et. al, 2011).

Impact of Medical Conditions:

- 1. Med school challenges for those with health issues (Pagnin et. al, 2013).
- 2. Health conditions increase stress and social disconnection (Campagne et. al, 2019).

METHODS

Survey Info - 390 Responses

Questions	
Science Identity	Value of Peers
Career Motivation	Sense of Belonging
Science Interest	Science Engagement
Self Determination	Community in Science
Self Efficacy	

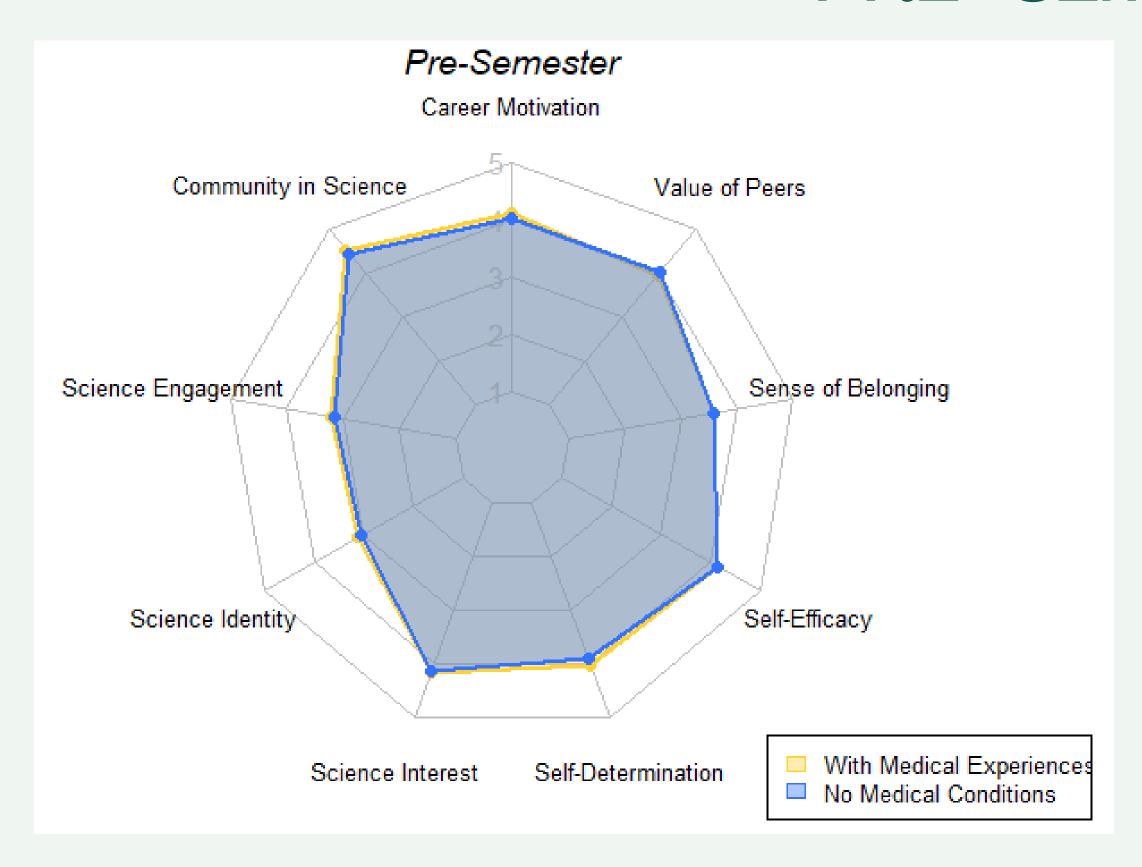


PRE- SEMESTER RESULTS



No significant differences at p<.05

PRE- SEMESTER RESULTS



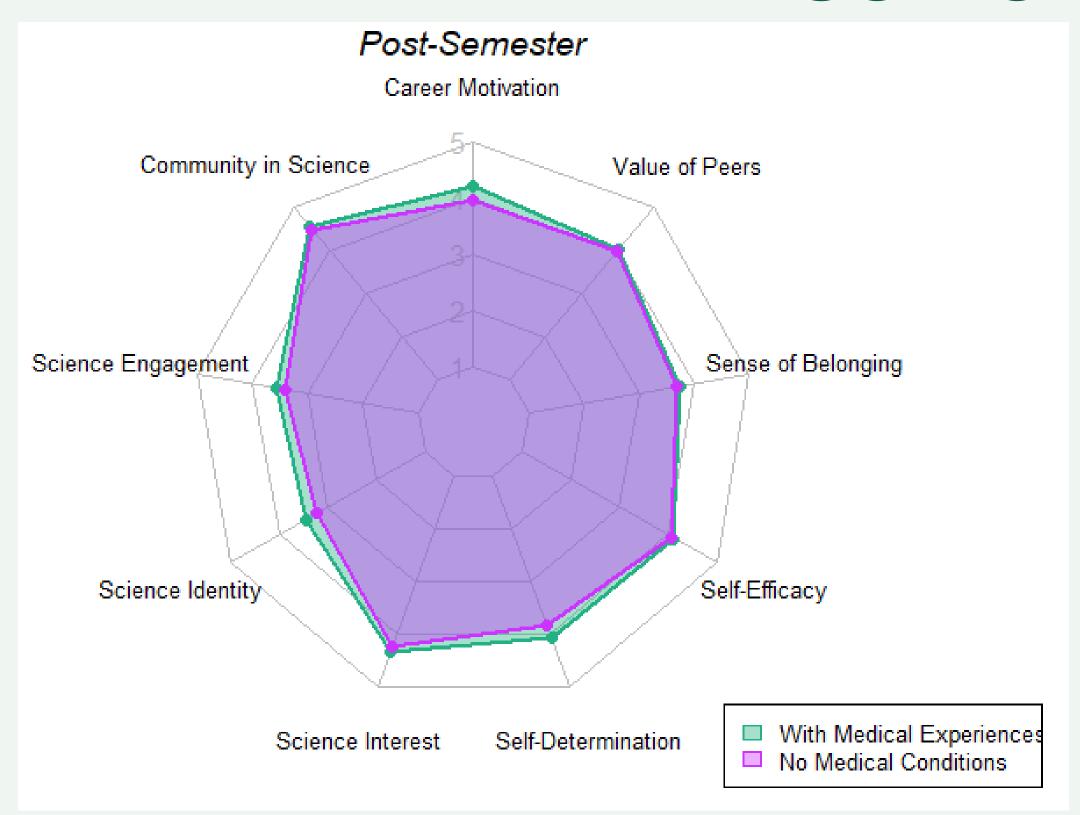
No significant differences at p<.05

POST- SEMESTER RESULTS



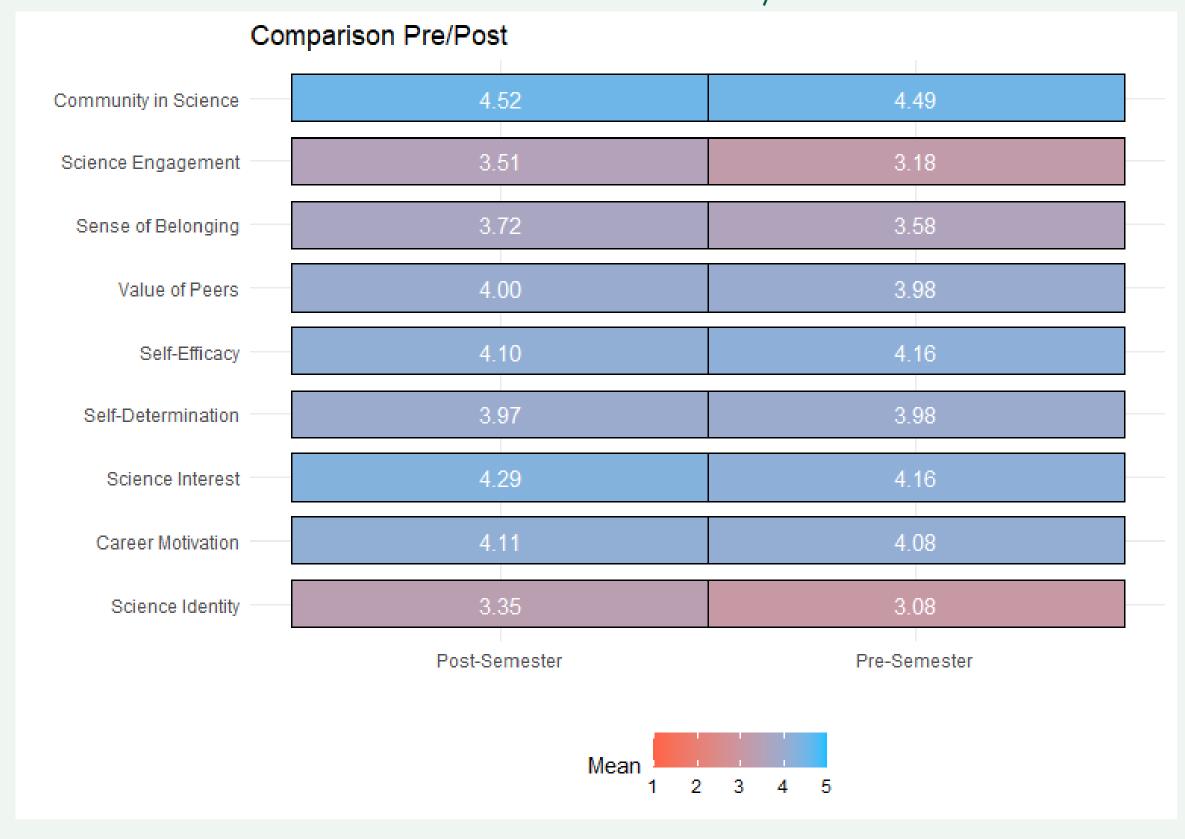
Significant
differences at
Science Identity,
Career Motivation,
and SelfDetermination at
p<.05

POST- SEMESTER RESULTS



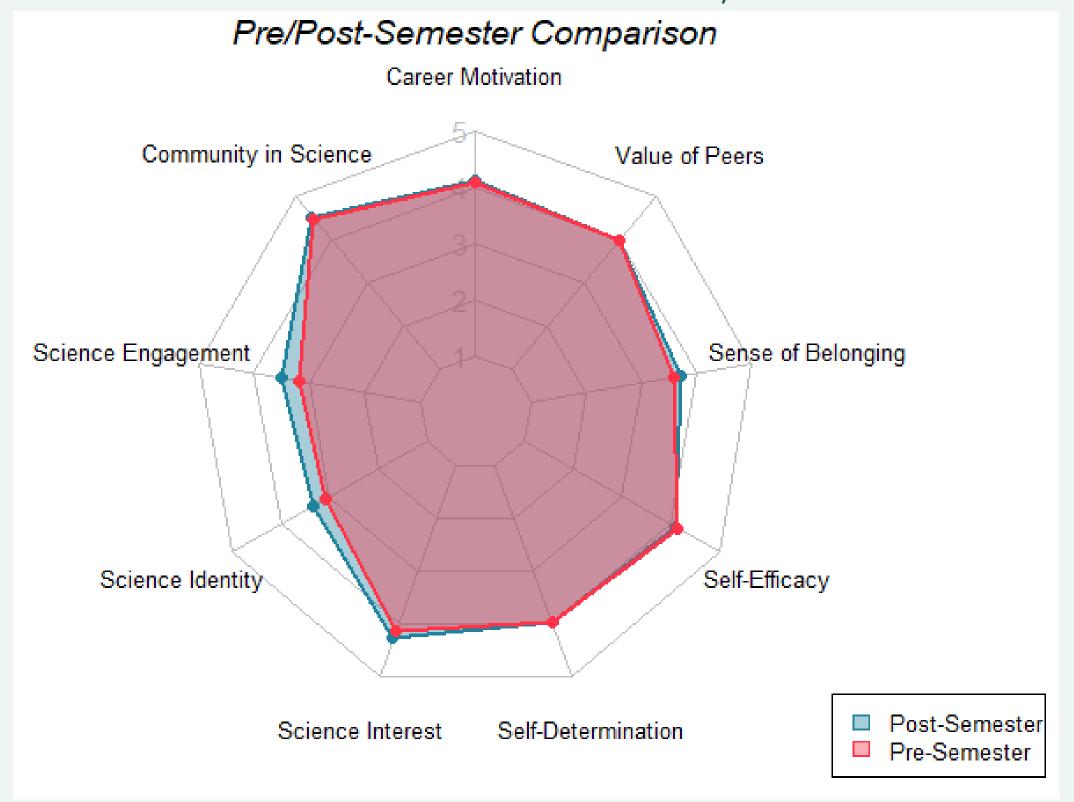
Significant
differences at
Science Identity,
Career Motivation,
and SelfDetermination at
p<.05

PRE/POST- SEMESTER RESULTS



Significant differences at Science Identity, Science Interest, Science Engagement, and Sense of Belonging at p<.05

PRE/POST- SEMESTER RESULTS



Significant differences at Science Identity, Science Interest, Science Engagement, and Sense of Belonging at p<.05

CONCLUSIONS

- STEM motivation is significantly influenced by medical experiences.
- Experiences in classrooms through the semester can influence student's STEM motivation
- In this selection of students, STEM motivation increases through the semester

INTERVENTION / SERVICE PROJECT



QUESTIONS?

THANK YOU

Porter Bischoff portergbischoff@gmail.com



