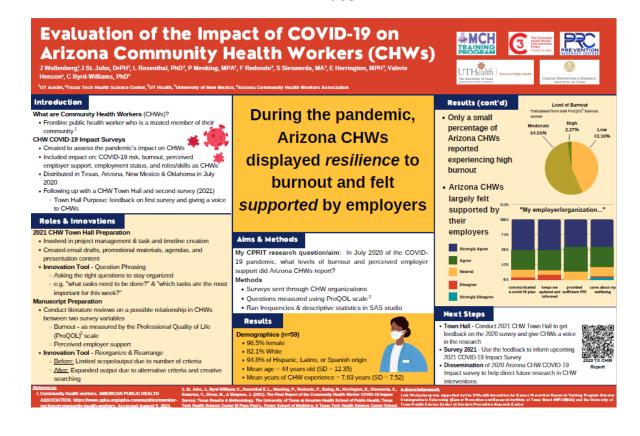
2021 Summer Undergraduate Research Experience Poster Presentation Winners

1st Place



2nd Place (tied)



Barriers for Students with Disabilities in Medical Careers UTHealth





CANCER PREVENTION & RESEARCH INSTITUTE OF TEXAS

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Introduction

2-4% of medical students have a disability compared to 20% of the US population. 1, 2, 3 Of that 2-4%, 90% have a psychological/learning disability. 1, 4

Previous research demonstrates several barriers for disability in medicine, including issues of accessibility, accommodations, and culture. 4-9

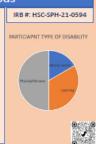
No current study focuses on students who left medical careers. These students with disabilities (SWD) have potentially faced other barriers not yet covered by research which have prevented them from pursuing medical careers.

GOALS

- Identify barriers causing SWD to leave medicine
- Evaluate potential strategies to address these barriers

Methods

- 1. Social Media Data Scraping: A python script was used to gather social media data. Data will then be qualitatively coded (not yet available).
- 2. Semi-structured interviews: Participants were recruited using social media, target enrollment of 20 (currently n = 6). Transcripts were qualitatively coded.



Results

Three general themes emerged:

- 1. Boons: circumstances that encouraged continuation in a medical career
- 2. General Barriers: circumstances that hindered but did not prevent continuation in a medical career
- 3. Causal Barriers: circumstances that directly caused the student to stop pursuing a medical career

General Barriers

Lack of

university

support

Judgment of

accommodation

Disclosure to

med schools

MCAT

bureaucracy

Medical professional support

Boons

Medical field exposure

Family and peer support

Causal Barriers

Lack of medical field exposure

Lack of peer support

Financial burden for diagnosis

Technical standards

Discussion

Disability representation is not only an issue of autonomy, but of healthcare access. Medical professionals with disabilities provide higher quality of care, particularly to patients with disabilities7, 10-12 Therefore, we need people with disabilities in medicine.

The results of this study may help identify new strategies to improve representation of disability and thus improve quality of care. Both the "causal barriers" and "boons" have been underexamined in efforts to recruit SWD to medicine. Focusing on eliminating "causal barriers" and supporting "boons" in future strategies could improve representation.

INNOVATIONS

- Changing POV: Previous work drew solely from current medical SWD. I sought the SWD who left
- Induction/Deduction: I balanced deduction from previous disability literature theories with induction from individual interview observations
- Recombination: I used social media scraping methods from data science disciplines

Next Steps

- Recruit more interview participants (n ≥ 20)
- Analyze social media data (n ≥ 500)
- Conduct survey of SWD left medicine (n ≥ 400)
- · Identify and implement strategies

Acknowledgments, References

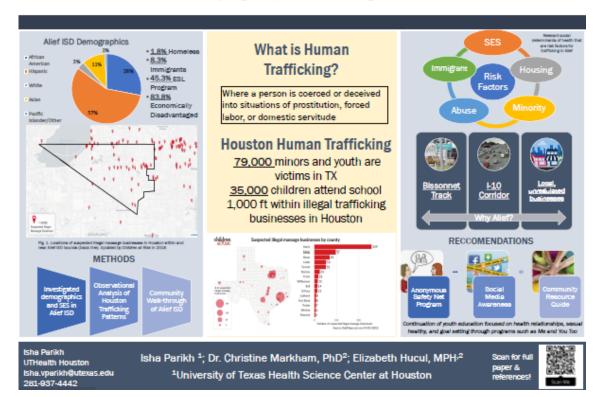


2nd Place (tied)



Human Trafficking Community Patterns in Alief, Houston

- · High levels of human trafficking in Alief ISD due to community level factors
- Possible solutions include community support through education, safety net program, and resource guide



3rd Place

Collaborative Intervention Implementation:

Determining Appropriate Reporting Strategies for Community Health Workers

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Lack of Reporting Standards for CHWs

Salud en Mis Manos (SEMM):

- Community Health Worker (CHW)-delivered education, motivation, and navigation intervention
- Designed to increase breast and cervical cancer screenings, as well as HPV vaccinations among underserved Latinas

Project Background: Despite CHWs being responsible for collecting data at the individual level, there is no systematic standard for reporting findings back to CHWs.







My Project Aim: Use a participatory approach to obtain feedback on developing appropriate ways of disseminating

Listening Sessions are Critical to Obtaining Feedback

- Conduct 4 listening sessions with a total of 11 CHWs + navigators from 3 organizations
- Ask open-ended questions to learn types of information CHWs interested in
- Obtain feedback on ways to report findings back to CHWs
- Use feedback and insight gained to develop strategies of disseminating results back to CHWs
- · Share results and seek additional feedback

Community-based research requires more effective communication with Community Health Workers

Innovation in the Research Process

?

Asking the Right Question:

What are innovative and appropriate ways of reporting findings back to CHWs/non-academic audiences?

Breaking Frame

Data and findings should be reported via academic reports for researchers.

Data and findings should also be reported back to CHWs using appropriate terminology and visuals.



Power of groups

Speaking with teams of CHWs of different backgrounds provided us with diverse perspectives and led to innovative ideas/opinions on ways to report findings.

Feedback Gained through Listening Sessions

- CHWs in these organizations primarily want to know the health and screening outcomes of participants
- Prefer simple and colorful graphics/visual aids
- Including anecdotes, testimonials, and outcome data in CHW reports can help reduce feelings of discouragement faced when addressing barriers for narticipants
- In addition to positive results, negative results should also be reported to allow CHWs to address areas of improvement
- Include legends and explain how data was obtained and what conclusions were based on
- Believe findings should also be reported to community partners



Figure 1: Examples of graphics shown to CHWs to obtain feedback

Feedback can be Used to Create Future Reporting Norms

- Utilize findings to develop systematic ways of reporting findings back to CHWs
- Share feedback and emphasize to researchers the need of reporting findings back to CHWs and communities

Image Source: Icons made by Freepik from www.flaticon.com

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