Pilot testing an asynchronous online harm reduction and pharmacotherapy stigma reduction training for substance use professionals



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BACKGROUND

- Overdose deaths in the United States increased over 1000% in the last decade, including 103,000 overdose deaths in 2021
- The growing number of drug overdose deaths has emphasized the need for intervention
- Both harm reduction and pharmacotherapy interventions for substance use disorder (SUD) display strong evidence for reducing adverse events and drug overdose risk
- Despite substantial evidence, stigma continues to withhold the use of these interventions
- Previous stigma research suggests that contact-based educational • interventions that connect professionals to individuals with lived experience and allow opportunity for self-reflection reduces stigmatizing attitudes towards people who use drugs (PWUD)
- There is a gap in stigma research on stigma interventions specifically aimed at substance use treatment providers and altering their attitudes toward evidence-based interventions

Purpose:

This pilot study aimed to explore changes in attitudes and planned actions associated with an online harm reduction and pharmacotherapy training among substance use professionals.

METHODS

- A free 4-hour asynchronous online harm reduction and pharmacotherapy curriculum was delivered to healthcare professionals who work with PWUD between 2020-2021
- The curriculum was delivered by a current harm reduction practitioner and an individual with lived experience. The training contained both readings and videos describing harm reduction programs, showing these programs in practice, as well as story by a person with lived experience of substance use working in harm reduction currently Pre- and post-training surveys used Likert-scale questions to assess knowledge, attitudes, and planned actions

RESULTS

- 76 participants completed the training
- 32 participants completed both the pre- and post-survey (n=63 responded pre-training and n = 36 responded post-training)
- Participants were located in 15 states across the US, primarily in Utah
- Five of the 23 survey items demonstrated a significant change in attitudes and planned actions relating to harm reduction or pharmacotherapy interventions after the training
- These items included attitudes towards: •
 - Methadone and buprenorphine (P=.021)
 - Overdose prevention sites (OPS)/"drug consumption facilities" (two items, P=.025, P=.056)
 - Naloxone distribution (P=.017)
 - Intent to promote pharmacotherapy interventions (P=.006)
- Majority of survey responses to stigmatizing attitude statements changed from "neutral" in the pre-survey to "disagree" in the post-survey
 - Demonstrated increased acceptance of harm reduction strategies following the training

DISCUSSION

- This study demonstrated that online asynchronous educational interventions show promise in reducing stigmatizing attitudes towards harm reduction and pharmacotherapy in substance use treatment providers
- Our study fills a gap in research seeking to reduce stigma toward evidencebased practices among substance use treatment providers and illuminates a need for addressing the underlying drivers of stigma in this population
- Future research may benefit from using a more robust randomized study design to build upon the results seen in our study and identify strategies that go beyond education to target the wider societal factors influencing stigma.
- Stigma scores were calculated for each participant based on survey responses
 - Higher scores indicated more stigmatizing attitudes
- McNemar tests were performed to analyze pre-and post-test changes in stigma

The following table describes various characteristics of participants at pretest.

Characteristic	N = 76
Gender	
Man	22 (34%)
Woman	41 (63%)
Other, or prefer not to	2 (3.1%)
disclose	
Unknown	11
Race/Ethnicity	
Asian American	1 (1.6%)
Hispanic	7 (1.6%)
Native American	2 (3.1%)
Native American,	1 (1.6%)
Hispanic	
Non-Hispanic White	51 (80%)
Non-Hispanic White,	1 (1.6%)
Other	

PUBLIC HEALTH IMPLICATIONS

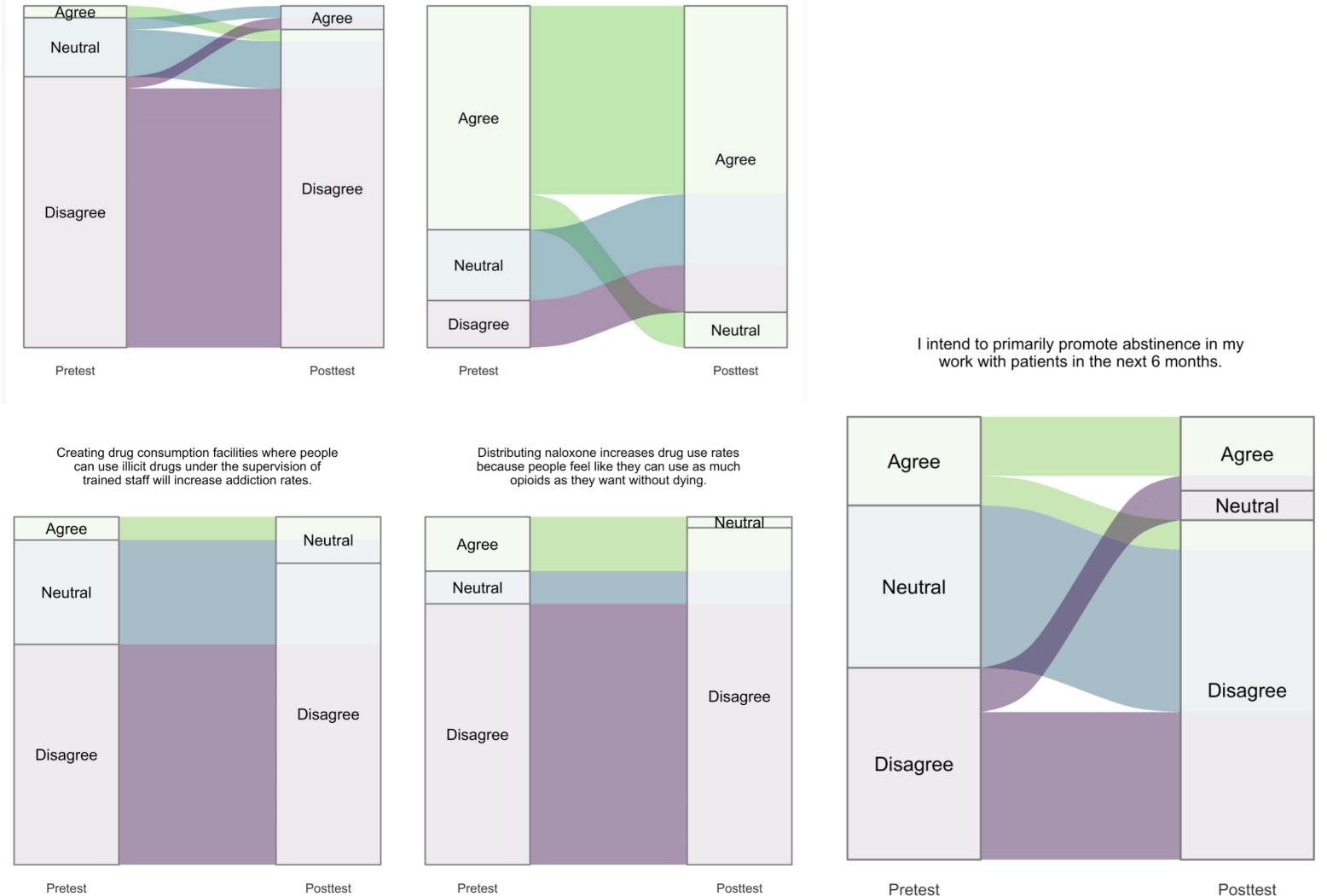
- SUD and drug overdose are public health emergencies in the US
- Interrupting stigma in the substance use treatment workforce is a step towards curbing this crisis
- Online educational interventions are cost effective and low burden, making it a feasible intervention

LIMITATIONS

- Findings of this pilot study draw on a small sample that may be subject to selection bias
- Volunteers received the training, and thus may represent individuals with preexisting positive attitudes toward harm reduction and pharmacotherapy, and thus low baseline stigma
- Such bias may have translated into smaller changes to stigma survey measures than would be observed in the general population of treatment personnel
- Study design was also limited by the timing of the post-training survey, which was offered immediately after training completion, and thus cannot speak to longer-term trends in attitudes.
- Survey asks about intention to act in stigmatizing ways, such self-reported measures of stigma cannot observe whether behavior change occurred

The figures below show the changes from pretest to posttest for the outcomes that showed significant change after the training.

Addiction treatment counselors should encourage patients with moderate or severe opioid addictions to get off medications for opioid use disorders like methadone and buprenorphine and instead only use behavioral therapy in their treatment.



Creating 'drug consumption facilities' where people can inject, inhale, or smoke illicit drugs under the supervision of staff trained in emergency medical care can reduce the number of people who die from fatal drug overdoses.

