

TeleBehavioral Health Summit

Welcome!

Title: Understanding Unequal Uptake of Digital Mental Health Tools among Diverse Patient Populations **Speaker:** Jan A. Lindsay, PhD



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 ✓ WHOVA chat for logistics questions and technical support.
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Understanding Unequal Uptake of Digital Mental Health Tools among Diverse Patient Populations

Jan A. Lindsay, PhD Co-Director, SC MIRECC Associate Professor, Baylor College of Medicine Core Investigator, IQuESt (HSR&D) Health Policy Fellow, Baker Institute for Public Policy, Rice University







Learning Objectives

- 1. Demonstrate an understanding of the importance of new technology in changing mental healthcare across clinical settings and populations.
- 2. Utilize new evaluation strategies for determining evidence-based digital mental health technologies.
- 3. Understand health equity considerations with utilization of digital mental health tools and possible solutions for engaging underserved patient populations.



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What is Digital Mental Health?

Video Telehealth Mobile Apps Online/ Web-Based Programs

Wearables











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Video Telehealth

Clinical Effectiveness

Attrition

Therapeutic Alliance

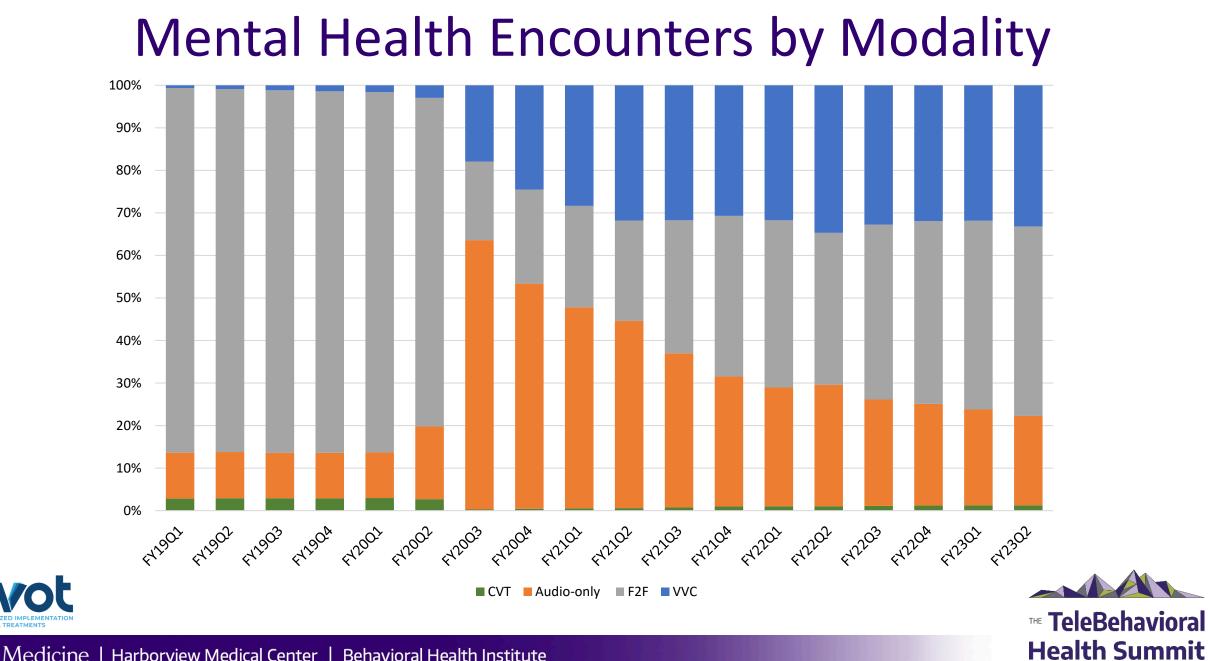
Satisfaction



Acierno 2016; 2017; Berryhill 2019; Connolly 2019; Frueh 2007; Glynn 2020; Gros 2011; Grubaugh 2008; Hilty 2020; Lichstean 2013; Lie 2019; Morland 2010; 2014; 2015; 2020; Scogin & Lichstein 2018; Stubbings 2013; Watts 2020; Yuen 2013

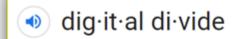


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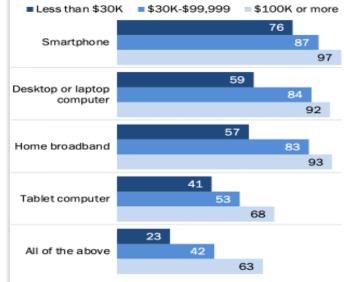
noun

the gulf between those who have ready access to computers and the Internet, and those who do not. "a worrying "digital divide" based on educational attainment and income"



% of U.S. adults who say they have each of the following,

Americans with lower incomes have



Note: Respondents who did not give an answer are not shown. Source: Survey of U.S. adults conducted Jan. 25-Feb. 8, 2021.

Mental Health Care Virtualization: Rural/Urban **Differences in Native Veterans** (accepted) Kusters, I. S., Amspoker, A. B., Frosio, K., Day, S. C., Day, G., Ecker, A., Hogan, J., Shore, J., & Lindsay, J. A.

for Mental Health Care. (under review) Day, G., Ecker, A. H., Amspoker, A. B., Dawson D. B., & Lindsay, J. A.



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COMMENTARY

The Importance of Video Visits in the Time of COVID-19

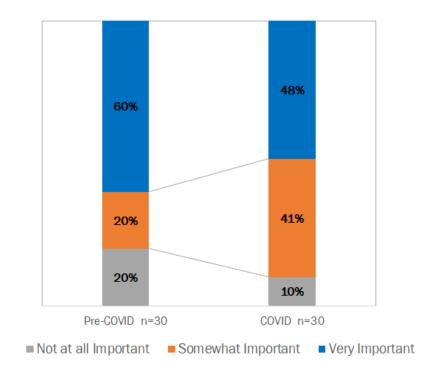
Jan A. Lindsay, PhD (1,2,3); Julianna B. Hogan, PhD;^{1,2,3} Anthony H. Ecker, PhD (1,2,3); Stephanie C. Day, PhD;^{1,2,3} Patricia Chen, PhD;^{1,3} & Ashley Helm, MA^{1,3}

1 Houston VA HSR&D Center for Innovations in Quality, Effectiveness and Safety, Michael E. DeBakey VA Medical Center, Houston, Texas 2 Menninger Department of Psychiatry and Behavioral Sciences, Baylor College of Medicine, Houston, Texas 3 VA South Central Mental Illness Research, Education and Clinical Center, Houston, Texas

> We could...see into their home, does it look unsafe, is there hoarding going on which a lot of our patients have that problem, and it's not safe. They trip over things, they break hips. Is there something else going on? Is it unsuitable for habitation? Lots of people have caved ceilings, lack of utilities, and things like that. It does give us a bird's eye view of their home, if they're willing to share that, and that helps with safety.

6 The patient was an older woman, who right away wasn't wanting to come in due to Parkinson's and age. She was a patient you really worry about [the risk]. You really want to lay eyes on her, if possible. [VTH] has been a game changer because she has a history of complex trauma and severe depression. Someone you don't want to have out there flopping in the wind at a time like this.

Patient Ratings on the Importance of Video More People Recognize the Importance of Video





See our commentary on "**The Importance of Video Visits in the Time of COVID-19"** by Jan Lindsay, Juliana Hogan, Anthony Ecker, et al. Published 2020 in the *Journal of Rural Health*.

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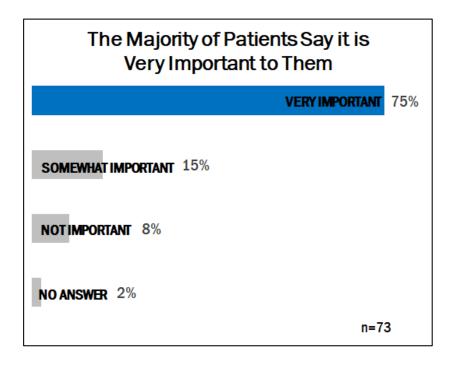
"

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Seeing the Value of Video





Veteran Voice: How Video Makes a Difference

"We had to use the phone one time, and the next time, I really **appreciated video**. The contact **formalized** the appointment, [added] **accountability** to adhere to that time and be there."

"I felt more of a connection with her, felt like she really cared and was listening. We weren't in the same room, but she could see my reactions and vice versa. It's **better than just being on the phone."**



Chen P. V., Helm A., Fletcher T., Wassef, M., Hogan, J., Amspoker, A., Cloitre, M. & Lindsay, J. (2021). Seeing the value of video: A qualitative study on patient preference for using video in a Veteran Affairs telemental health program evaluation. *Telemedicine Reports*, *2.1*, 156-162. DOI: 10.1089/tmr.2021.0005

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Beyond Preference: Patients Recognize Importance of Video



talking on the phone because I can do other things. But mainly because of my children, I can go in the room, the kids are ok for an hour, instead of waiting in the lobby or whatever. Which I don't feel comfortable... Tough [to choose] between phone [and VTH]. My therapist] likes me to stop what I'm doing and talk to her over the video. But over the phone I could get away with that."

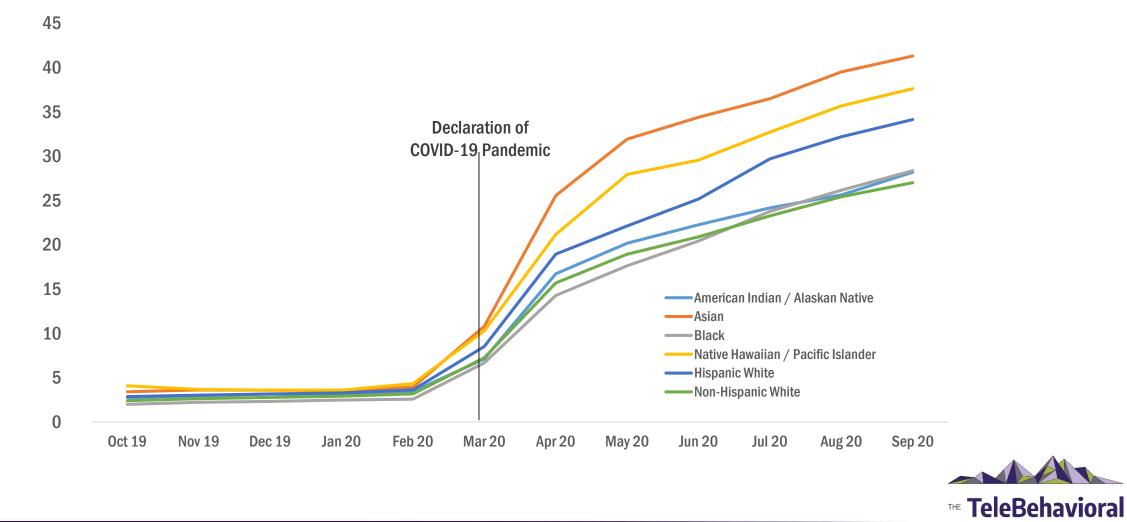
"As much as my therapist wants me to

be engaged... I love the phone. I like



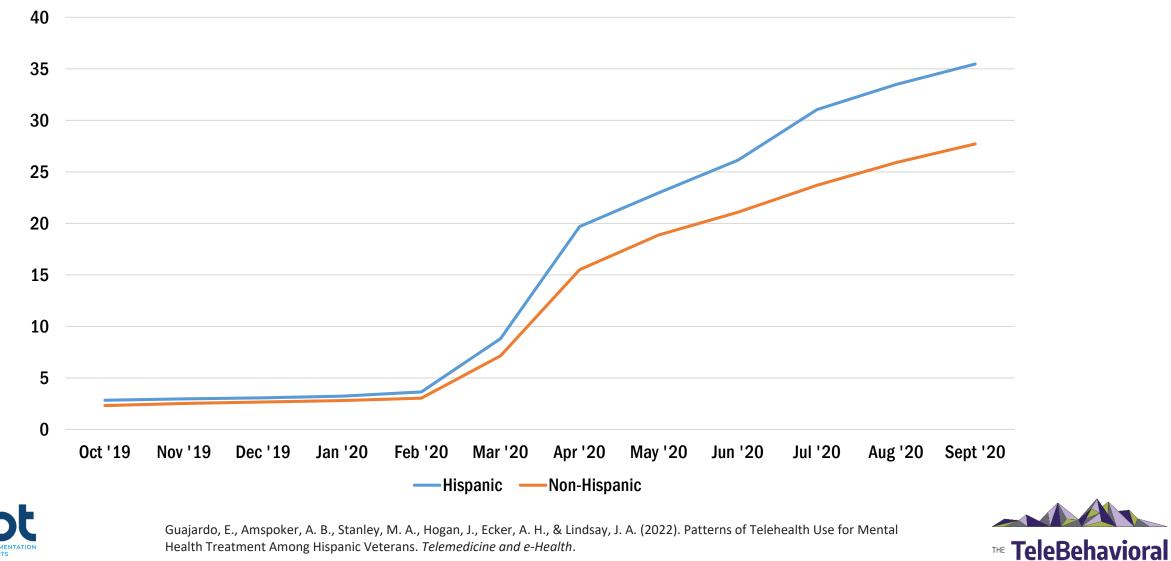
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Percentage of VTH Utilization among Racial and Ethnic Groups



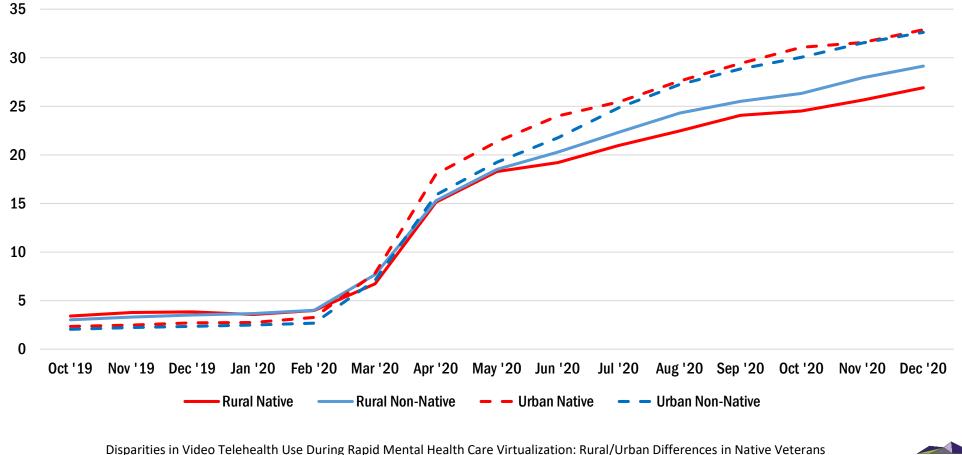
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Percentage of VTH Utilization by Ethnicity



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Mean Percentage of VTH Mental Health Encounters Over Time by Rurality and Native Status



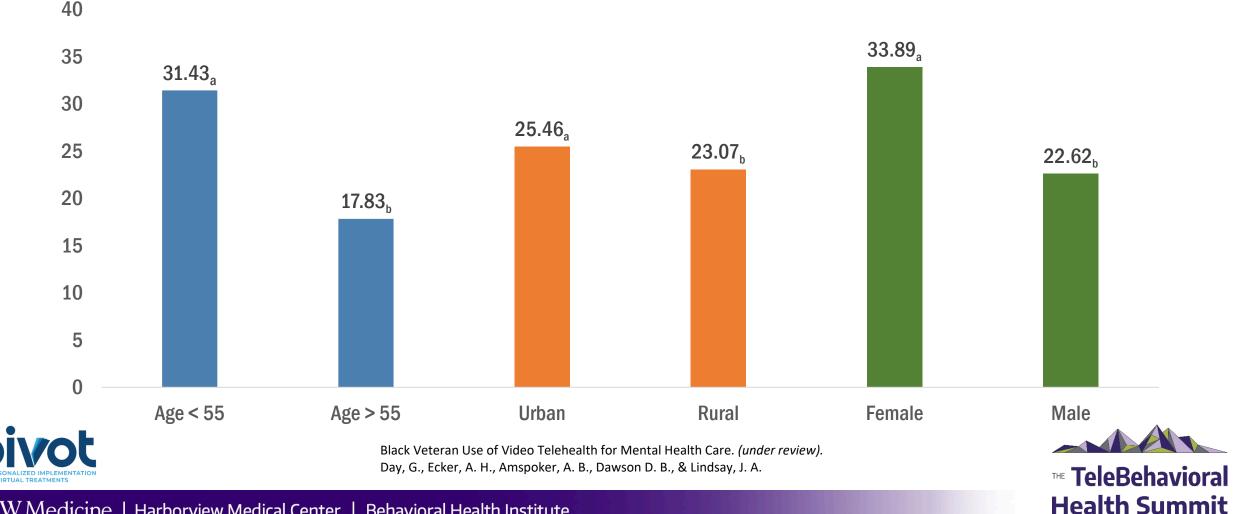
(accepted) Kusters, I. S., Amspoker, A. B., Frosio, K., Day, S. C., Day, G., Ecker, A., Hogan, J., Shore, J., & Lindsay, J. A.

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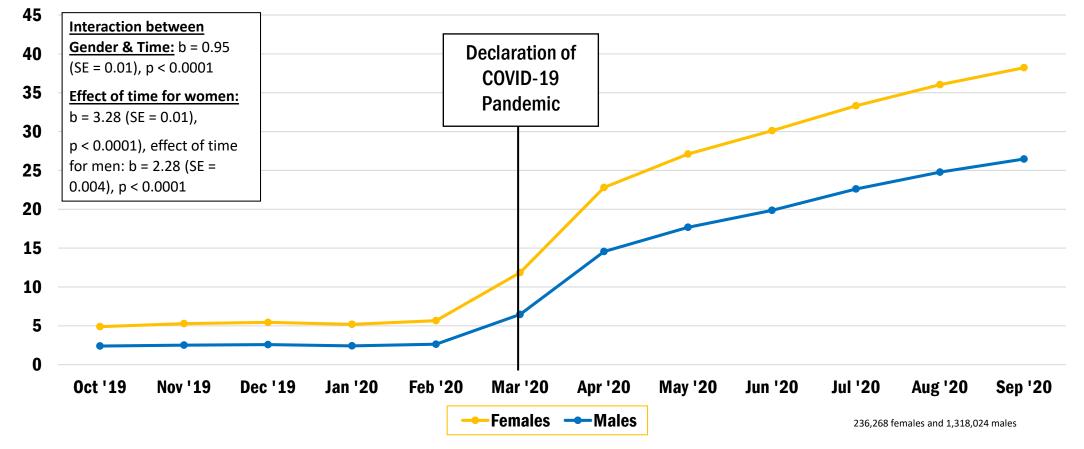
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Percentage of VTH Mental Health Encounters among Black Veterans 6 months after onset of COVID-19

a and b differ from each other at p < 0.05



Percentage of VTH Mental Health Encounters by Gender





Lindsay, J. A., Caloudas, A.B., Hogan, J., Ecker, A. H., Day, S.C., Day, G., Connolly, S. L., Touchett, H., Weaver, K. R., & Amspoker, A. B. (in press). Getting connected: A Retrospective Cohort Investigation of video to-home telehealth for mental health care utilization among women veterans. Journal of General Internal Medicine.

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Veteran Voices: VTH Benefits for Female Veterans

Avoiding Difficult Situations:

"Something for me where I didn't have to go to VA...[Going to VA] makes me angry, stirs up emotions..."

Easing Child Care:

"Convenience with time and scheduling, and I don't always have to bring my son."

Providing a Comfortable Environment:

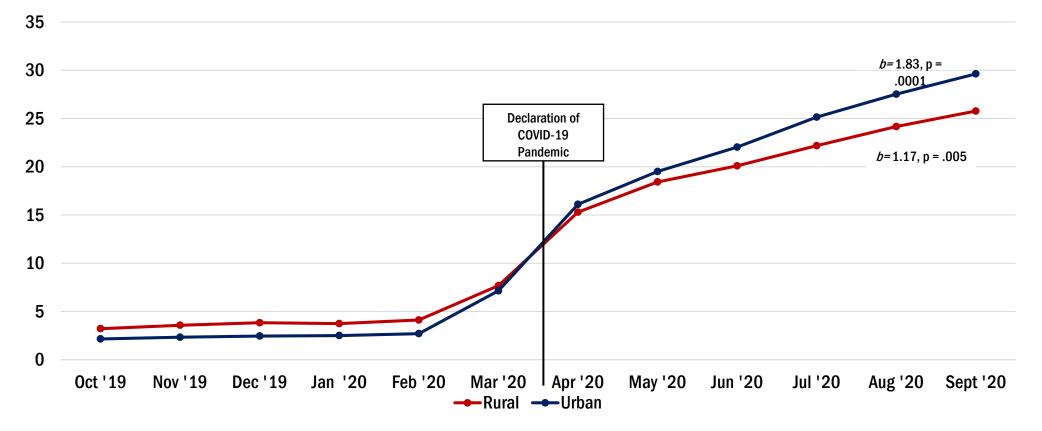
"It is nice when you're talking about topics that get you extremely emotional- to be in the comfort of your own home where you feel very comfortable."





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Percentage of VTH Mental Health Encounters by Rurality



557,668 rural and 1,384,093 urban



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Hogan, J., Amspoker, A. B., Walder, A., Hamer, J., Lindsay, J. A., & Ecker, A. H. (2022). Differential impact of COVID-19 on the use of tele–mental health among veterans living in urban or rural areas. *Psychiatric Services*, *73*(12), 1393-1396.

Veteran Voices: VTH Benefits for Rural Veterans

Increasing Access

"If you live way out in the country, you may not have access to exactly this, medical care, if you don't have telehealth."

Overcoming Distance Barriers

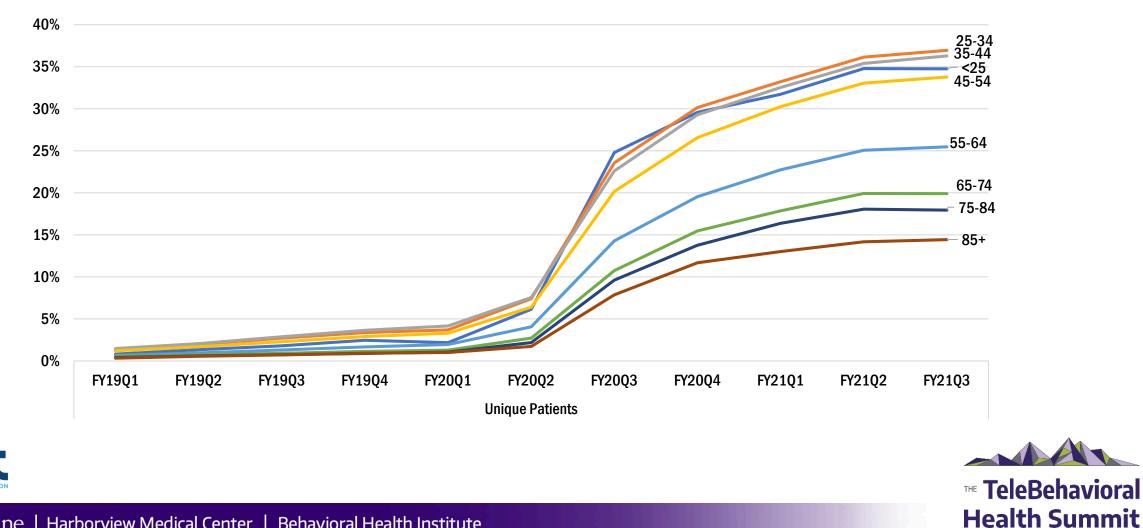
"For me to get to my CBOC, it's 55 miles. The main hospital is 100 miles. That's a 2.5-hour drive. I wake up with deer and possum and raccoons in my yard. With VVC, I don't even have to shower... I check into that room about 5 minutes and wait."





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Patients 55+ Use VTH at Lower Rates than Younger Age Groups



Veteran Voices: VTH Use Among Older Veterans

Technology Accommodates a Slower Pace of Life

"I do have arthritis and it's a little hard for me to get going and moving in the morning. So, I have plenty of time to get ready for the session on the telehealth."

VTH Care during COVID

"The only way you will get into the VA is if you wear a mask, and I won't wear a mask due to COPD. It was either telehealth at home or drive to [CBOC]."

Caregiving to Overcome Technological Difficulties

"My daughter... She worked me through it and showed me what to do. The second time she showed me what to do. After that I was on my own, and I didn't have any trouble except, once I got disconnected and I didn't know what to do." TeleBehavioral

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Use of Telehealth with Older Adults

Benefits

- Improve Access
- Safety
- Timeliness of dx and care
- Decrease Isolation
- Reduce cost
- High Satisfaction
- Mobility impairment

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Barriers

- Tech confidence
- Privacy concerns
- Failed attempt increases isolation
- Lack of equipment
- Digital health literacy
- Provider assumptions and hesitancy

Solutions

- Adaptive equipment
- Repetition and practice
- Providing paper copies of written instructions
- Provider training
- Peer support



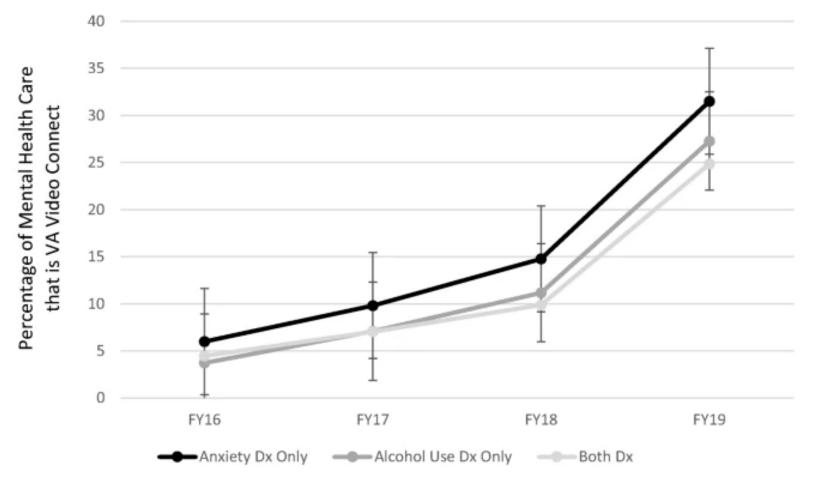
Adams 2018; Ball 2019; Cook 2004; Choi 2020; Czaja 2013; Duffy 2004; Grubaugh 2008; Hantke 2020; Hirani 2014; Lum 2020; Lorenzen-Huber 2011; Merchant 2020; Peek 2014; Roter 2000; Sahin 2020



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Mental Health and SUD Comorbidity Impacts Access to VVC

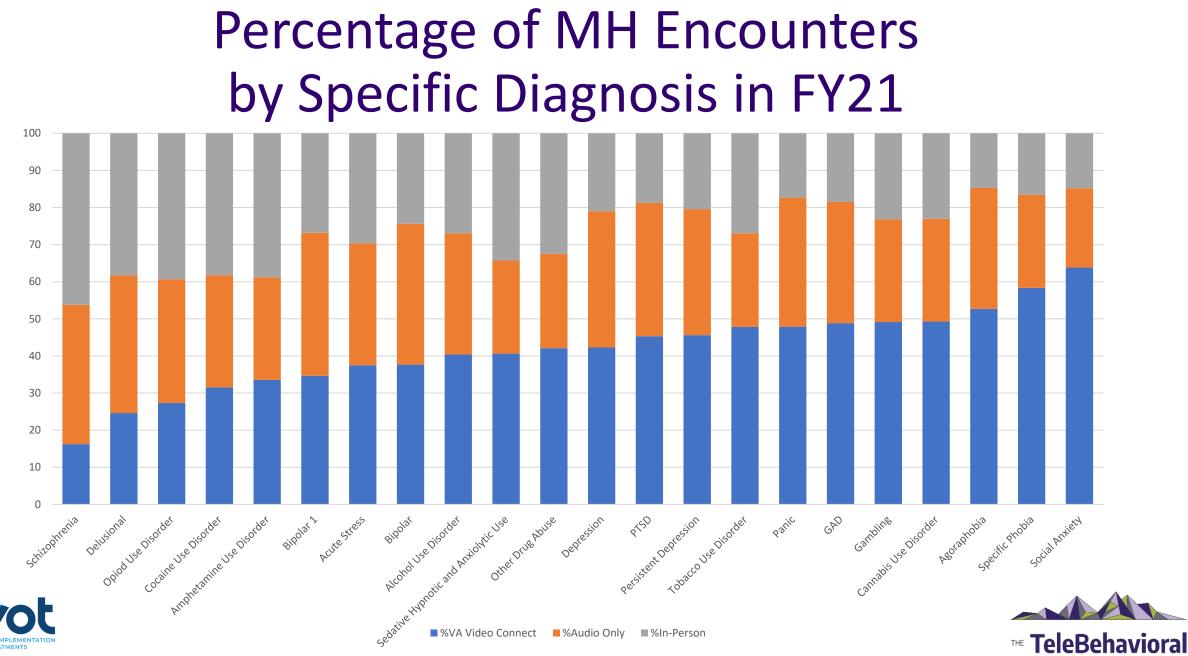




Ecker, A. H., Amspoker, A. B., Hogan, J. B., & Lindsay, J. A. (2021). The Impact of Co-occurring Anxiety and Alcohol Use Disorders on Video Telehealth Utilization Among Rural Veterans. Journal of technology in behavioral science, 6(2), 314-319

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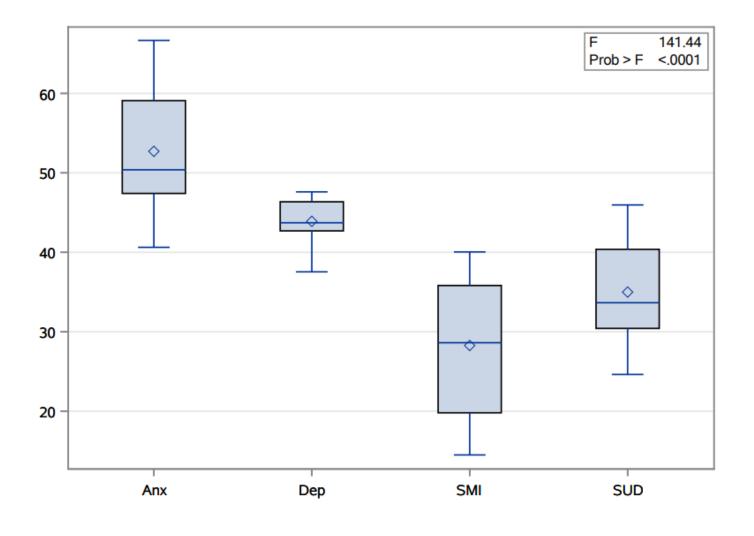
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Percentage of MH Encounters Delivered via VVC by Diagnosis Category in FY21



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Skills Training in Affective and Interpersonal Regulation (STAIR)



ECOND EDITION

Treating Survivors of Childhood Abuse and Interpersonal

Trauma

STAIR Narrative Therapy

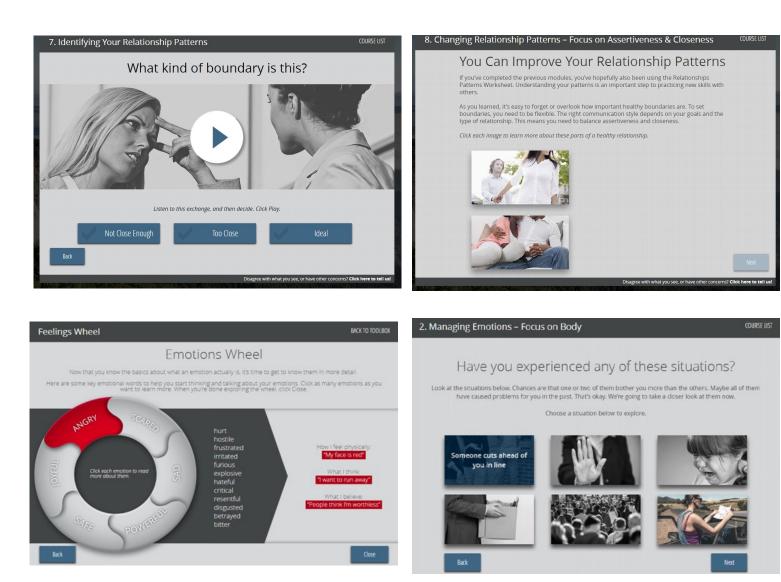
Marylene Cloitre, Lisa R. Cohen, Kile M. Ortigo, Christie Jackson, and Karestan C. Koenen



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webSTAIR

web-based version of Skills Training in Affective and Interpersonal Regulation (STAIR), supported by Office of Rural Health (ORH)



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Cloitre, M., Cohen, L. R., Ortigo, K. M., Jackson, C., & Koenen, K. C. (2020). Treating survivors of childhood abuse and interpersonal trauma: STAIR narrative therapy. Guilford Publications.

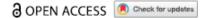
Feasibility of Coaches to Support an Online Intervention

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PERSONALIZED IMPLEMENTATION OF VIRTUAL TREATMENTS EUROPEAN JOURNAL OF PSTCHOTRAUMATOLOGY 2021, VOL. 12, 1860357 https://doi.org/10.1080/20008198.2020.1860357



CLINICAL RESEARCH ARTICLE



A Resource Building Virtual Care Programme: improving symptoms and social functioning among female and male rural veterans

Ashley Bauer^a, Amber B. Amspoker^{b,c}, Terri L. Fletcher^{b,d,e}, Christie Jackson^f, Adam Jacobs^a, Julianna Hogan^{b,d,e}, Rayan Shammet^a, Sarah Speicher^a, Jan A. Lindsay^{b,d,e} and Marylène Cloitre ⁽¹⁾

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ABSTRACT

Background: Veterans have higher rates of PTSD and depression compared to the general population and experience substantial functional impairment. Impairment in social functioning has been a significant concern among Veterans, particularly rural Veterans, who have limited access to mental health care and are at risk for social isolation.

Objective: A mixed-method study was implemented to evaluate the feasibility and effectiveness of webSTAIR, a web-based skills training programme, paired with home-based telehealth sessions. It was hypothesized that the programme would lead not only to reductions in PTSD and depression but also to improvements in social functioning.

Method: Participants were 80 trauma-exposed Veterans enrolled in rural-serving VHA facilities with clinically elevated symptoms of either PTSD or depression. The study directed substantial outreach efforts to rural women Veterans and those who have experienced military sexual trauma (MST).

Results: Significant improvements were obtained with PTSD and depression symptoms as well as in social functioning, emotion regulation, and interpersonal problems at post-treatment and 3-month follow-up. Ratings of therapeutic alliance were high as were reports of overall satisfaction in the programme. There were no differences by gender or MST status in symptom outcomes or satisfaction.

Conclusions: The results support the feasibility and effectiveness of this integrated tele-

Bauer, A., Amspoker, A.B., Fletcher, T.L., Jackson, C., Jacobs, ...& Cloitre, M. (2021) A Resource Building Virtual Care Programme: A mixed-methods evaluation program designed to evaluate the feasibility, satisfaction and effectiveness of an online intervention program supported by video-coaching sessions with trauma-exposed rural Veterans. European Journal of Psychotraumatology

ARTICLE HISTORY

Received 27 August 2020 Revised 16 November 2020 Accepted 23 November 2020

KEYWORDS

Rural veterans; MST; online trauma therapy; telemental health; ptsd; social functioning; interpersonal problems; emotion regulation

PALABRAS CLAVE

veteranos rurales; MST; terapia de trauma en línea; tele salud mental; PTSD; funcionamiento social; problemas interpersonales; regulación de las emociones

关键词



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DOI: 10.1111/jrh.12628

THE JOURNAL OF RURAL HEALTH

ORIGINAL ARTICLE

Presence of a Coach Critical to Program Success

"I liked it because I was able to work at my own pace. I was able to work it around my schedule instead of working my schedule around it. I liked doing the modules beforehand because we were able to talk about them better when I'd done them first." Increasing access to care for trauma-exposed rural veterans: A mixed methods outcome evaluation of a web-based skills training program with telehealth-delivered coaching

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Correspondence

Abstract

Purpose: While rural veterans with trauma exposure report high rates of posttraumatic stress disorder (PTSD), depression, and functional impairment, utilization of healths ervices is low. This pilot study used mixed qualitative and quantitative methods to evaluate the potential benefits of a transdiagnostic web-based skills training program paired with telehealth-delivered coaching to address a range of symptoms and functional difficulties. The study directed substantial outreach efforts to women veterans who had experienced military sexual trauma given their growing representation in the Veterans Healthcare Administration (VHA) and identified need for services.

Methods: Participants were 32 trauma-exposed veterans enrolled in rural-serving VHA facilities who screened positive for either PTSD or depression. Symptoms of PTSD, depression, emotion regulation, and interpersonal problems were assessed at baseline, midpoint, posttreatment, and 3-month follow-up. Veterans completed exit interviews to identify benefits and limitations of the program.

Results: Intent-to-treat analyses revealed significant symptom reduction for all outcomes, with large to moderate effect sizes at 3-month follow-up. Outcomes did not

Fletcher, T. L., Amspoker, A. B., Wassef, M., Hogan, J. B., Helm, A., Jackson, C., Jacobs, A., Shammet, R, Lindsay, J.A., & Cloitre, M. (2021). Increasing access to care for trauma-exposed rural veterans: A mixed methods outcome evaluation of a web-based skills training program with telehealth-delivered coaching. The Journal of Rural Health.



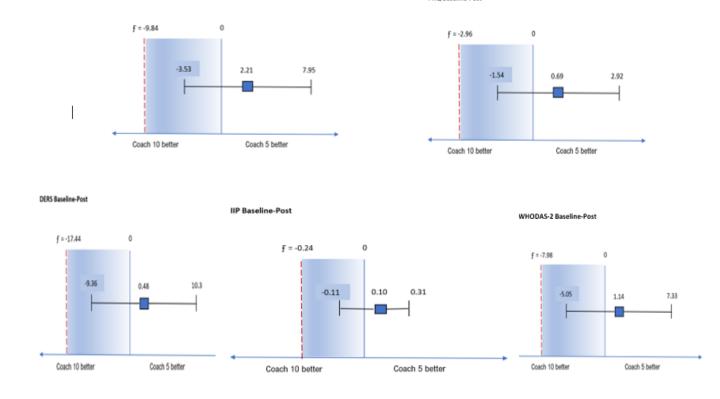


Figure 2a-e. Non-Inferiority Margins and 95% Confidence Intervals for Differences in Outcomes (from Baseline to Post) between Coach 5 and Coach 10

PHQ Baseline-Post

Does "Dose" of Coaching Matter?

Comparing the Ratio of Therapist Support to Internet Sessions in a Blended Therapy Delivered to Trauma-Exposed Veterans



Cloitre, M., Amspoker, A. B., Wassef, M., Hogan Fletcher, T. L., ... & Lindsay, J. A (2021). Comparing the Ratio of Therapist Support to Internet Sessions in a Blended Therapy Delivered to Trauma-Exposed Veterans. Journal of Medical Internet Research.

PCL Baseline-Post





Veteran Voices: Coaching Matters

"It's nice to have that guidepost [coach] to help with processing, get encouragement, and feedback."

"I liked being able to go through the modules on my own and digest and then go to the coach and see if that was intended."

"I appreciate the materials, but if the coaching sessions were not there, I probably wouldn't have finished the program. It added the depth."





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Participant Experiences with the Modality & Coaching





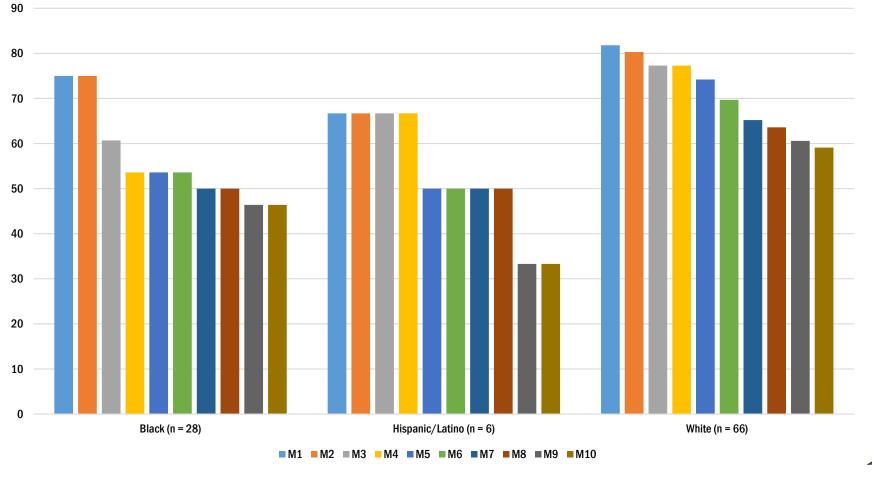
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Percent Module Completion among Women by Race



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Content that reflects perspectives from diverse backgrounds



Videos and role

plays that

reflect real-

world scenarios



Content that

can be

the patient



Input from patients on the content customized by incorporated in to the Tool

Potential Solutions



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Special Thanks

Implementation

Stephanie Day, PhD Julianna Hogan, PhD Miryam Wassef, LCSW Giselle Day, MPH Kathy Marchant Miros, RN Paula Wagener, BA

Quantitative/Methods

Amy Amspoker, PhD Annette Walder, MS

Qualitative

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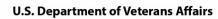


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