

Objectives

- 1. Describe the implementation of Trauma Focused Cognitive Behavioral Therapy (TF-CBT) in three different low resourced contexts impacted by poverty, natural disasters, and violence in the US and Latin America
- 2. Describe the cultural and linguistic tailoring of TF-CBT using $\,$ implementation science principles and technology (i.e., telehealth, apps)
- 3. Provide program evaluation outcomes, lessons learned, and future directions for global implementation of TF-CBT

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Teamwork Makes the Dream Work!



- SC Collaborators
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 Postdoctoral Fellows

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| NCTSN | The National Child | (1 |
|---------|--------------------------|-----------|
| INCIDIN | Traumatic Stress Network | MUSC Heal |



Barriers in Access to Trauma Treatment

- Trauma exposed youth from low SES backgrounds, living in rural areas, and belonging to a racial or ethnic minority group are less likely to have access to evidence-based mental health services (Alegria, Vallas, & Pumarlega, 2010, Roberts, Giman, Breslau, Breslau, & Koenen, 2011)
- Barriers in access to mental health services include:
 - Lack of transportation and means to travel (e.g., gas/parking money) to mental health facilities
 - · Lack of insurance
 - Employment barriers (e.g., scheduled work hours, leave restrictions)
 - Limited availability of culturally and linguistically competent services
 - Public health emergencies (COVID-19)

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Telehealth Outreach Program for Traumatic Stress (TOP-TS) in South Carolina

- Established 2015 at MUSC
- Provides school-based and home-based telemental health treatment for traumaexposed children and adolescents
- Goal of increasing access to care for populations that are underserved by officebased mental healthcare programs (lowresourced settings in South Carolina)



Especially, rural populations and racial/ethnic minorities

https://telehealthfortrauma.com

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TOP Clinic

- Training Clinic
- Multidisciplinary team: psychology interns, postdoctoral fellows, MSW, MD
- · 848 visits last school year
 - 3,500 visits since 2016
- Pre-Pandemic
 - 70% school-based
 - · 30% home-based



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Trauma Focused Cognitive Behavioral Therapy (TF-CBT)

- Empirically-validated, multi-component psychotherapy model for children ages 3-18 addressing trauma-related symptoms, including PTSD, depression, and moderate behavioral problems.
 - 20+ randomized controlled trials supporting its efficacy
 - Highest rating by the California Evidence-Based Clearinghouse for Child Welfare
 - Successfully implemented in community service agencies worldwide.

(Cohen, Mannarino, & Deblinger, 2017)

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SECOND EDITION

Treating Trauma

and Traumatic

Grief in Children

and Adolescents

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How does it work?

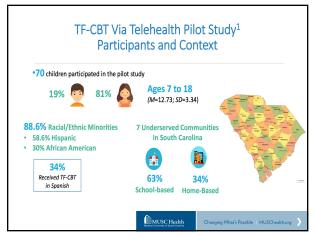
- HIPAA compliant videoconferencing software
- Use of a laptop, desktop, or loaner iPads that are data enabled
- Private location at a school or home
- Weekly therapy visits and psychiatric medication management (as needed)
- Bilingual (Spanish) clinicians and access to interpreter services
- Evidence-based trauma focused therapy (TF-CBT)

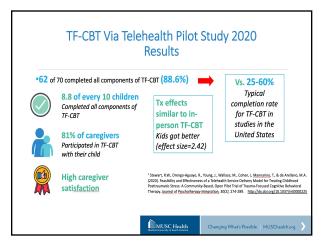












Lessons Learned and Next Steps

- · Understanding the unique needs, concerns, and strengths of agencies and families is an important first step
- Addressing needs/concerns/workflows/communication at organizational, leadership, clinician, and stakeholder levels is crucial
- · Ongoing consultation and implementation support is necessary
- Building a repository of tele resources and having an open access philosophy is important

Next Steps:

- National Child Traumatic Stress Network Category II Grant to provide training and technical assistance to agencies in the US and Puerto Rico in telehealth delivery of TF-CBT
- Further development and dissemination of webinars, protocols, resources (https://telehealthfortrauma.com)
- Reimbursement, licensing reciprocity across states will be crucial for sustainability- https://psvpact.site-vm.com

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Telehealth Outreach Program (TOP) Recommended Readings:

- Stewart, R.W., Orengo-Aguayo, R., Young, J., Wallace, M., Cohen, J., Mannarino, T., & de Arellano, M.A. (2020). Feasibility and Effectiveness of a Telehealth Service Delivery Model for Treating Chidhood (2020). Feasibility and Effectiveness of a Telehealth Service Delivery Model for Treating Chidhood Therapy. Journal of Psychotherapy Integration, 30(2), 274-289. https://dx.doi.org/10.1037/ini0000275. Deliverke, A.R., Wallace, M.M., Massio, A.V., Willaloso, B.T., Hermandez Rodiquez, J. & Stewart, R.W. (2020) Resources and Recommendations for Engaging Children and Adolescents in Telemental Health Interventions. The Behavior Therapist, 45(5), 171-117. Stewart, R.W., Orengo-Aquayo, R., Wallace, M.M., Multiput R.W., Reingod, A. (2019). Leversign Stewart, R.W., Orengo-Aquayo, R., Wallace, M.M., Multiput R.W., Reingod, A. (2019). Leversign behavioral therapy. Journal of Interpersonal Violence. Advance online jubilication, https://doi.org/10.1177/107586926151893. Stewart, R.W., Orengo-Aquayo, R., Cohen, J.A., Marnardino, A.P., & de Arellano, M. A. (2017). Apliot Malfreatimnal: 24(4), 244-333. https://doi.org/10.1177/1075556177526103. Stewart, R.W., Orengo-Aquayo, R., Gilmore, A.K., & de Arellano, M. (2017). Addressing barriers to care among Hispanic youth: Telehealth delivery of Trauma-Fousact Ospiliwe-Behavioral Therapy (TF-CBT). The Behavior Therapist, 40, 112-118. PMID: 28(7)0147. Septimental Children Child

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Barriers in Access to Trauma Treatment after Natural Disasters: Puerto Rico

- · Natural disasters include all types of severe weather events (e.g., hurricanes, tsunamis, earthquakes, tornadoes, wildfires, and floods), which can pose a significant threat to human safety, security, health, and infrastructure (Fischer, 2003).
- Approximately 175 million children will be affected every year by natural disasters as a result of climate change (Seballos, Tanner, Tarazona, & Gallegos, 2011).
- Children exposed to natural disasters are at increased risk for developing a host of mental health problems that require evidence-based, trauma-focused approaches and interventions
- Lack of trained providers and/or access to evidence-based services after natural disasters is a significant problem

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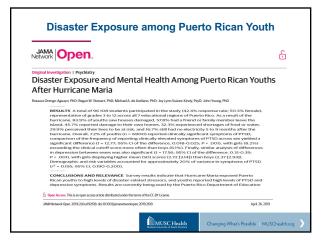


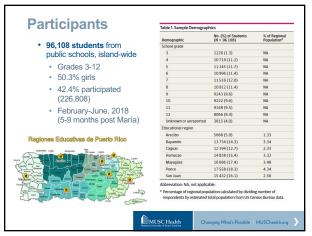


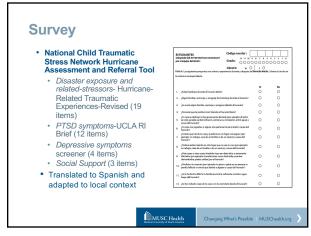












| | Youths, No. (%) | Theft in neighborhood | 16 998 (17.7) |
|--|-----------------|------------------------------------|---------------|
| | Overall | Violence in neighborhood | 11 990 (12.5) |
| Item Description | (N = 96 108) | Moved schools | 5474 (5.7) |
| Injured during hurricane | 3895 (4.1) | Helped rescue people | 23 124 (24.1) |
| Family, friend, or neighbor injured during hurricane | 15 367 (16.0) | Parent(s) lost job | 10 964 (11.4) |
| Family, friend, or | 6376 (6.6) | Electricity unrestored | 80 020 (16.7) |
| neighbor died | | Water unrestored | 6995 (7.3) |
| Thought own life was at risk | 28 729 (29.9) | Friends or family left island | 55 550 (57.8) |
| Own house damaged | 43 901 (45.7) | tercistand | |
| Belongings damaged | 29818 (31.0) | 30% thought the | y could die |
| Forced to evacuate | 24 537 (25.5) | during Maria | |
| Still relocated | 5284 (5.5) | 32% still did not | have adequate |
| Saw houses damaged | 80 608 (83.9) | food or water 5- | 9 months post |
| Lost a pet | 7212 (7.5) | Maria | |
| Shortage of food or water | 31 086 (32.3) | 58% experience | |
| | | support network | S |

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- Prevalence of probable PTSD = 7.2% (N=6,900)
- Significant differences in PTSD by gender (t = 27.69, P < .001) with girls reporting more clinically significant PTSD symptoms than boys (8.2% vs. 6.1%)
- Being female, experiencing greater material loss, and fear of dying during the hurricane accounted for 20% of the variance in PTSD symptoms (r2 = 0.195; 95% CI, 0.190-0.200).
- Socioeconomic status, geographic location, and distance from landfall did not predict PTSD symptoms.

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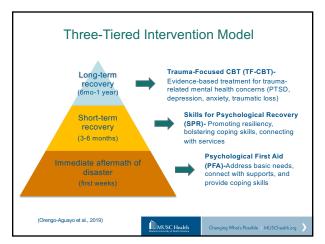
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Conclusions

- 100% of Puerto Rican youth surveyed experienced some type of disaster related stressful event regardless of socioeconomic status or geographic location on the island.
- Puerto Rican youth are also resilient (7.2% vs. 30% prevalence rates compared to other post-disaster studies)
- There is a need for traumafocused interventions for Puerto Rican youth after hurricane Maria.



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Tailoring TF-CBT to the Puerto Rican Context

- Fidelity to the model and TF-CBT training requirements were maintained- Very important!
- Tailoring occurred at the **implementation** level:
 - Identifying Needs and Strengths: Informal focus groups to understand the needs and strengths
 - Translation and tailoring of all materials (reviewed iteratively by native speakers)
 - TF-CBT Web 2.0
 - CPSS-5 (Foa et al., 2017) and RCADS (Chorpita et al., 2005)
 - Creation of a TF-CBT resource and implementation workbook
 - Learning Collaborative Model (Bunger et al., 2016)

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Identifying the Needs

- Significant mental health professional shortage in PR
 - · Financial crisis
 - Immigration to the mainland US ("brain drain")
- Limited psychologists to address mental health concerns in schools (~35 for 300,000+ students across 865 schools!)
- Barriers to accessing mental health treatment (distance to clinics, caregiver schedules, time missed at school)
- · Lack of specialized trauma-focused training
- · Limited, to non-existent availability of resources in Spanish

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Identifying the Strengths

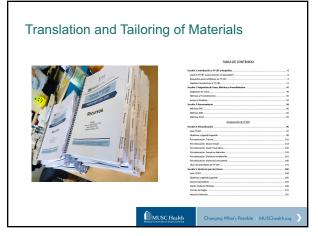
- · Committed leadership and staff
- Resourceful- Have been doing a lot with little for many decades
- PR-DE open to the idea that a trauma-informed school is important (mainly as a result of Hurricane Maria)
- Willingness to participate in specialized training
- Willingness to allow psychologists to see children and caregivers at school to minimize barriers in access to care

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| Heja de Puntueción CPSS | | Name and the |
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| Commonte | Guia para | sesiones de TF-CBT | Psicoeducación |
|---|------------------|---|--|
| A | | Entrevieta clinica Recolución de medidas pre-tratamiento (CPSS, RCACS). | Objetives: |
| Asessesimiento P | | • Pojas informativas | Establecer una relación terapecidos |
| Psicoedusación y Destresos para la Orianza | 1-2 | Leor un libre Juego de conocimiento (tarjetos terapésticas ¿ Qué saber?) Destrucas Eloque, Escacha activa, lancear activamente. | Ø Competit for resultados de las métricas Ø Normalizar y validar |
| | | Tiempo ham, etc. Fospiración profunda Fospiración profunda | Otrecer información sobre elifos trauma(s) experimentados por el menor, reacciones comunisfaintomias, explicar lo que es el PTSD |
| R Respectos | 1-2 | Refujación programia muscular (refles grandes) Chocolate - 5 sentidos (atención plena) | Explicar el modelo de TT-CBT (objetivos, duración, expectativas) y contester preguntes Otrocor esperanza |
| | | La nabe Listado de emociones Casadrado de emociones | Estructura: |
| Á Expresión y Modulación | 2-3 | Cubito de enociones Menica | |
| Afretira | | Lear un libre Termômetro | a compartir lo aprendido a través de un juego. |
| | | Video, canciones, peliculas (con nifos grandes) Diferencia enho pensamientos, sentimientos, acciones | |
| C Processarieste Considera | 2-3 | Triangulo cognitivo con hojos de papel en el piso (niños) Persumientos - Sentimientos con el permito (niños) | 2.0 para hacer sus sesiones dinámicas y divertidas. |
| | | Recolección de medidas mid-indomiento (CPRS, RCA(IS) Capitalo 1 – Todo sobre mi | Ejerapios de Agendas: |
| - | | Capitalo 2 - Una memoria folic (namativa neutral) Capitalo 3 - Trauma (primera vec, peor sec, difirma vec) Trauma 81 (reterena - martin - fe) | Adolescents Mayor (Abuso Sexual) |
| Namativa del Trauma | 2-6 | Trauma #1 (preopio - modo - m) Trauma #2 Capitalos fináiso | Offecca información específica sobre el abuso sexual in. Tipos de abuso sexual |
| | | Lo que aprendi en la tempia | b. ¿Por qué hay tipos de abuso sexual? |
| | | Ministro Assercado de situaciones que dan miedo | "Por qué ocurse el abuso sexual? "Quiénes son los abusadones sexuales? |
| Expesición Enviva | 1 – 2 (spoional) | Tarea de exposición en vivo | e. ¿Cómo se sienten los niñosias\\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(|
| С | - 1 | Ayudar si nifola comparir su namalius can el encargado Recolección de medidas post tratamiento (CPSS). | f. ¿Por qué a menudo los niflos(sa)/jóvenes no le dicen a otros que están siendo abusedos? |
| Besiones Conjuntas | | Bendamo mana para arbandones perlamana | Conteste preguntas y recompense el hacer preguntas con premios (duices). |
| A | 1 (never antes | Plan de seguridad Toques apropiados e inapropiados | 3. Traiga al quidador y permitale al paciente explicar lo que aprendió. Ofrazos más |
| Aumentando la Seguridad | necessits) | Jaegs de nil para pradicar como dece "ne" Cerculo de segundad | información y conteste preguntas adicionales. |

Learning Collaborative Model

- 1. Orientation and contract
 - 1. Read intro packet and expectations and "opt in"
- 2. Pre-training work
 - Complete TF-CBT Web2.0 and read a TF-CBT chapter written in Spanish (Moreland, de Arellano, Hanson, & Deblinger, 2016)
- 3. Learning Session #1
 - 1. 2 day, in person training. All materials and training in Spanish
 - 2. In-vivo adaptation based on needs
- 4. Action Period (bi-weekly consultation calls)
 - 1. Bilingual consultants
- 5. Learning Session #2
 - 2, in person booster (4 months into collaborative). Reinforce
 Trauma Narrative and Conjoint Session components

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Learning Collaborative Model 1. Orientation and contract Lyper Cypring Landing Liper College Landing Lan

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2. Pre-training work 1. Complete TF-CBT Web2.0 and read a TF-CBT chapter written in Spanish (Moreland, de Arellano, Hanson, & Deblinger, 2016) Found it difficult to complete the English version (particularly the quizzes)-wanted it in Spanish Quizzes "made us nervous" "Too long" Outschelpful component were the videos Greatly valued the CEU credits Preferred the book chapter (Moreland et al., 2016)

Learning Collaborative Model

- 3. Learning Session #1
 - 1. 2 day, in person training. All materials and training in Spanish
 - 2. In-vivo adaptation based on needs



- Space to process Hurricane Maria experiences
- Time to train on metrics and
- scoring
 Dynamic and experiential
- approach was beneficial Reinforce with opportunity to earn therapy materials as prizes & coffee/food breaks
- Time for group activities and
- sharing Repetition of PRACTICE acronym throughout

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Learning Collaborative Model

4. Action Period (bi-weekly consultation calls and implementation support)











- Metrics Coordinator
- · Clear instructions for scoring and sending measures to metrics coordinator
- Resources on dropbox
- WhatsApp group chat
- Virtual Vouchers
- · Group consultation
- Individual consultation ("on demand")
- Self-care processing groups

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Learning Collaborative Model

- 1. Learning Session #2
 - 2, in person booster (4 months into collaborative). Reinforce
 Trauma Narrative and Conjoint Session components



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Adapting to Earthquakes & COVID-19: TF-CBT via Telehealth in Puerto Rico TF-CBT via Telehealth in Puerto Rico TF-CBT Learning Collaborative with APS Healthcare Clinics Began in August 2019 Still recovering from Hurricane Maria Series of earthquakes ravage the island in January 2020 COVID-19 pandernic March 2020-Present

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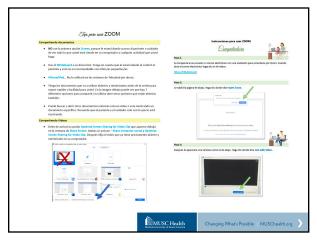


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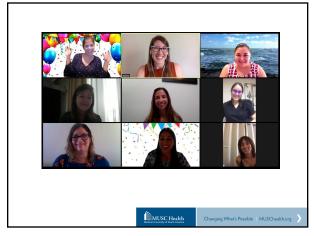
Transition from in-person to telehealth

- · Needs assessment with APS clinics leadership
- 3-hour webinar on delivering TF-CBT via telehealth with psychologists and leadership
- Development of tip-sheets specific to platform utilized (zoom)
- Practice tele-sessions
- Ongoing implementation support via phone and WhatsApp
- Teleconsultation calls
- Coordinated effort between leadership, administration, and providers with MUSC team
- Transition for 70% of enrolled patients occurred within 2-3 weeks

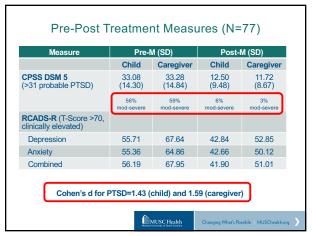
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| TF-CBT Outcomes in Puerto Rico | | | | | |
|---|---|-------------------|--------------------------|---|--|
| a N=400th | Index Trauma | N=106 | % | | |
| N=106 youth APS Health | Traumatic Loss/Grief | 22 | 20.8 | | |
| Dept of Ed | Domestic Violence | 17 | 16.0 | | |
| Mean Age=10.4 yrs | Sexual Abuse | 12 | 11.3 | | |
| (Range: 4-18) | Bullying in Schools | 12 | 11.3 | | |
| 55% Female | Hurricane Maria | 11 | 10.4 | | |
| Referred by school | Physical abuse | 9 | 8.5 | | |
| social workers, | Polivictimization | 7 | 6.6 | | |
| counselors or | Earthquakes | 3 | 2.8 | | |
| teachers, caregivers | Community Violence | 2 | 1.9 | | |
| | Neglect | 1 | 0.9 | | |
| | Other | 10 | 9.4 | | |
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Lessons Learned for Building Collaborative Partnerships Listen first- Special attention to basic needs, safety, and trust • Provide a menu of options, based on your expertise, in a respectful, simple, and flexible manner Be ready to adapt as needs and priorities shift Acknowledge local expertise and leverage it Help build a network of collaborators who capitalize on each other's • Careful not to become a burden (e.g., coordination, interpretation) • Long-term commitment is desirable in post-disaster contexts Build partnerships pre-disaster Orengo-Aguayo, R., Stewart, R.W., Martinez González, K.G., Suárez Kindy, J.L., Christian Herrero, M.C., & Rivera Colón, I. (2019). Bullding collaborative partnerships across professions to implement trauma-focused cognitive behavioral intervention after hurricane María in Puerto Rioc. The Behavior Therapist, 42, 123-128. http://www.abct.org/docs/ MUSC Health

Cultural Humility and Sensitivity

- My own experience as a Puerto Rican living in the mainland United States (not in the island of Puerto Rico)
- · Listen first, listen often,
- Context matters- One successful implementation strategy in one context under a set of conditions may flop in another context.
- Perspective taking-What would I have wanted when I was learning TF-CBT?
- Involve local providers in the process and as part of the team
- Be there when things get tough and offer support (e.g., earthquakes, recent tropical storm Isaias)
- Build up, encourage, model humility and team-work
- Have fun!

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Future Directions

- Training additional community mental health and school-based providers in culturally-tailored TF-CBT
- Training community and child-serving agencies (e.g., schools) to become more trauma-informed
- · Enhancing access to trauma-focused treatment via telehealth





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Expanding Access: Teleconsultation Program in Schools ALBIZU ONLY ERSTY Charging What's Possible | MUSChealth.org

PR Recommended Readings: 1. Orengo-Aguayo, R., Stewart, R. W., Villalobos, B. T., Hernandez, Rodriguez, J., Dueweke, A. R., de Arellâno, M. A., & Young, J. (2020). Listen, don't tell. Partnership and &daptation to implement trauma-focused cognitive behavioral therapy in low-resourced settings. American Psychologist, 75(8), 1158–1174. https://doi.org/10.1037/amp.0000691. 2. Orengo-Aguayo, R., Stewart, R.W., de Arellano, M.A., Pastrana, F.A., Villalobos, B.T., Martinez-González, K.G., Suarez-Kindy, J.J., & Bymer, M. (2019). Implementation of a multi-phase, trauma-focused intervention model post-hurricane Maria in Puerto Rico. Lessons learned from the field using a community based participatory approach. Journal of Family Strengths, 19 (1). https://doi.lai.commons.library.trinc.edu/lis/sk/d118/sist/17. 4. Orengo-Aguayo, R., Stewart, R., de Arellano, M., Suárez-Kindy, J., & Young, J. (2019). Disaster exposure and mental health among Puerto Rican youth after hurricane Maria. JAMA Network Open, 2(4): e192619. https://diamanetwork.com/dournals/amanetwork.open/fullanticle/2731679. 5. Orengo-Aguayo, R., Stewart, R.W., Martinez González, K.G., Suárez Kindy, J.L., Christian Herrero, M.C., & Rivera Colon, I. (2019). Building collaborative partnerships across professions to implement trauma-focused cognitive behavioral interventions after hurricane Maria in Puerto Rico. The Behavior Therapist, 42, 123–126. http://www.absc.org/docs/Postlastin/Arch. MUSChealth.

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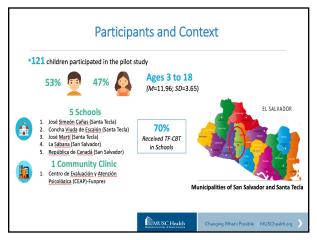
Barriers in Access to Trauma Treatment in Latin America: El Salvador

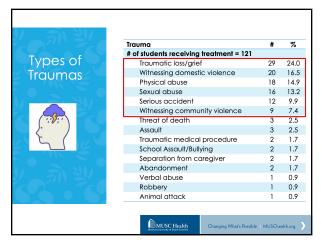
- 30-60% of children in Latin America have experienced a potentially traumatic event during their lifetime (Speizer et al., 2008)
- Many Latin American countries have a long-standing history of political instability, gang-related violence, poverty, and forced migration that has further exposed youth to potentially traumatic events (Wirtz et al., 2016)
- A universal mental health screening study found that ~35%
 (1/3) of students endorsed elevated symptoms of posttraumatic stress in El Salvador (Stewart et al., 2021)
- However, an estimated 70% of Latin American youth with mental health disorders do not receive treatment and of those that do receive services, most are not evidence-based (Kohn, 2013)

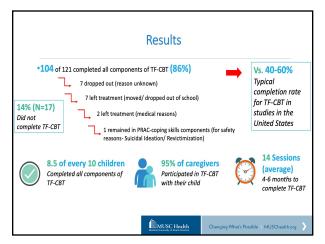
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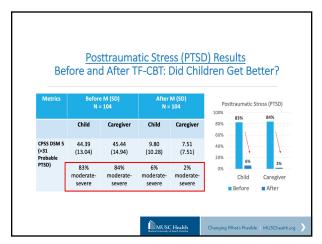
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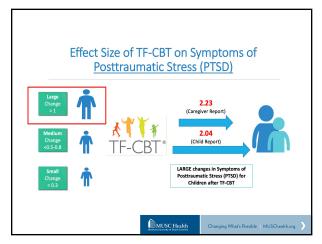


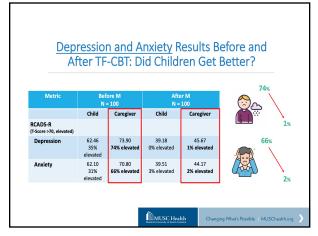


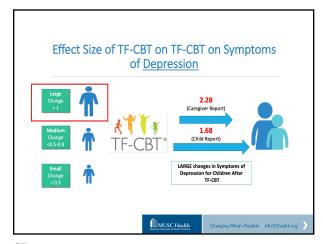


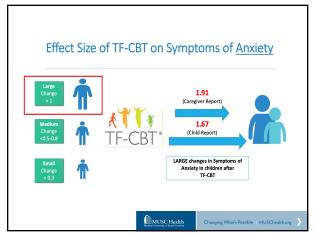






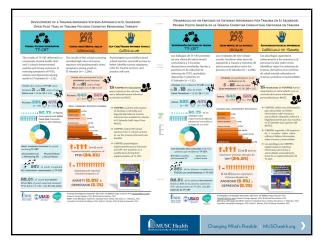






Procession **P of every 10 children (92.8%) got better (no longer had Posttraumatic Stress (PTSD) after TF-CBT) **10 of every children with symptoms of Depression (100%) no longer had symptoms of depression after TF-CBT **9.5 of every 10 children with symptoms of Anxiety (97%) no longer had symptoms of Anxiety after TF-CBT **Its important to provide ALL TF-CBT components (A-PRACTICE) to obtain these results **TF-CBT was adapted and implemented successfully in the local context of El Salvador and produced successful results. **TF-CBT is feasible, acceptable and effective in El Salvador.**

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Lessons Learned and Next Steps

- · Draw on local expertise
- Adapt to the local context
- Build long-term relationships based on collaboration, sharing, and service
- Remember the BIG picture

NEXT STEPS:

- "Diplomado" in Trauma
- RCT of TF-CBT in El Salvador
- Telehealth pilot

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What have we learned implementing TF-CBT in 3 different low-resourced settings?

- Community based participatory approach is key
- TF-CBT works! Adapt/tailor the implementation process, language, and examples- rather than re-invent a new evidence-based practice (EBP)
- Draw on local expertise and know when to take a step back
- Empower local communities to co-create with you and take ownership of the EBP- "Decolonizing approach"
- Don't use a "helicopter approach"- cultivate and maintain long-term relationships and collaborations
- Design the next project based on the needs of your partners and communities
- Open access to resources should be the norm, not the exception
- Engage in D&I science that makes a real-world impact

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