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What Works in Indigenous Suicide Prevention? Adopting & Adapting Evidence-Based Practices

Opening

- Who Am I?
 - Academic Psychologist
 - Clinically-Trained
 - Community-Engaged
 - Culturally-Attuned
 - Research Interests
 - Culture, Coloniality, & Mental Health
 - Indigenous Psychologies
 - Cross-Cultural Interventions





- Goals of Presentation
 - Present the Rationale for Evidence-Based Practice
 - Review the Evidence Base for Mainstream Suicide Interventions
 - Describe the Evidence Base for Indigenous Suicide Interventions
 - Reflect on Strategies to Reduce Indigenous Suicide

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Rationale for Evidence-Based Practice

Round 1

Rationale for Evidence-Based Practice

- Why EBP in Mental Health (MH) Services? (Gone & Alcantara, 2007)
 - Need for MH treatments eclipses availability (allocation of scarce MH resources)
 - Most workaday MH IVs have not been rigorously evaluated (clinician practice deviates from structured IVs)
 - MH providers believe that their IVs work best (based on training & experience)

Rationale for Evidence-Based Practice

- Why EBP? (cont)
 - Beliefs in efficacy can be mistaken (Lilienfeld et al., 2014)
 - Some treatments have been shown to cause harm (e.g., Facilitated Communication, D.A.R.E., CISD)
 - Commitment to provide healthcare services that are maximally likely to help people (& to not harm them)

Rationale for Evidence-Based Practice

- How to Develop EBP in MH Services?
 - Evidence-Based Practice (EBP) (Kazdin, 2008)
 - Best Research Evidence
 - Client Values & Preferences
 - Clinician Expertise
 - Development of EBP Starts as a Research Endeavor

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Rationale for Evidence-Based Practice

- How to Develop EBP (cont)
 - Empirically-Supported MH Treatments
 - Originates in tightly-controlled efficacy trials to establish cause & effect (but such studies are highly artificial)
 - Confirmed through replication of positive results across multiple studies (but most studies are not extensively replicated)
 - Expanded to *effectiveness trials* in workaday healthcare settings to ensure generalizability (but reduced effectiveness can be observed)
 - Proven benefits across numerous studies are incorporated into formal Clinical Practice Guidelines (but this requires large numbers of participants in highquality studies)
 - Proven IVs are rolled out to the real world through Dissemination & implementation efforts (but training is burdensome)

Round 2

- Hofstra et al. (2020) Systematic Review & Meta-Analysis
 - Formal meta-analysis of 15 controlled studies (3 types) from 2011-2017 with 29,071 participants focused on completed suicides (N = 62) & attempted suicides (N = 1006)
 - Findings
 - For preventing completed suicides
 - Any IV = large effect
 - Setting: Psychiatric ward (large effect) > Community-level IV (large effect) > Emergency room (n.s.) > Outpatient specialty MH (n.s.)
 - Multilevel IVs = Large effect, Non-multi-level IVs = n.s.
 - For preventing attempted suicides
 - Any IV = moderate effect
 - Setting: Outpatient specialty MH (large) > Psychiatric ward (moderate effect) > Community-level IV (small effect) > Emergency room (small effect)
 - Multilevel IVs = Large effect, Non-multi-level IVs = moderate effect

- Hofstra et al. (cont)
 - Findings (cont)
 - Better Outcomes from Combining IVs (Single-level IVs = small effect, Two-level IVs = moderate effect, Three-level IVs= large effect)
 - Implications
 - Small number of controlled studies (N = 16) targeting completed or attempted suicide (*not* ideation)
 - Suicide IVs have different effects on different outcomes across different settings
 - Recommend multilevel approaches across different providers, domains, & settings (but further research is needed)

- Mann et al. (2021) Systematic Review in AJP
 - Included 97 RCTs & 30 epidemiological studies from 2005-2019 focused on suicide, attempted suicide, or suicidal ideation
 - Narrative review (not meta-analysis) that assessed replicated efficacy & scalability of IVs
 - Findings
 - Effective & Scalable IVs
 - Educating primary care physicians in diagnosis & treatment of depression (e.g., antidepressants)
 - Educating high school students about MH
 - Means restriction
 - Predischarge education & outreach following hospitalization or crisis

- Mann et al. (cont)
 - Findings (cont)
 - Effective but Less Scalable IVs
 - Psychotherapies = Cognitive Behavioral Therapy + Dialectical Behavior Therapy
 - Unproven but Scalable & Promising IVs
 - Fast acting medications (Ketamine)
 - Internet-based screening & treatment + Passive monitoring via smartphone
 - Ineffective IVs
 - Educating gatekeepers about youth suicidal behavior
 - Many Limitations: Small samples + Few studies + Lack of replication + Suicidal ideation as outcome + Effective IV elements are unknown + Ambiguous criteria for scalability

- Take-Home Points
 - There are forms of suicide IV that work
 - Combining more than one IV into multilevel approaches works even better (e.g., Zero Suicide Model [Brodsky et al., 2018])
 - BUT not all popular suicide IVs have been shown to work (e.g., Gatekeepers for youth)
 - Research evidence on suicide IVs is complex & evolving, & keeping up to date is a challenge for everyone

Round 3

- Pham et al. (2021) Systematic Review of IV Outcomes in SSM-Mental Health
 - Research Question: What interventions work to prevent American Indian / Alaska Native suicide?
 - Broad inclusion criteria to capture wide range of IV outcome studies
 - Identified 28 studies for 23 unique IVs from 1976-2020 using:
 - Direct measures of suicidal behavior (e.g., attempt, ideation) (N = 11)
 - Indirect measures of proxy variables (e.g., hopelessness, alcohol abuse) (N = 26)
 - Narrative review: Diversity across studies prevented formal meta-analysis
 - Impressive corpus, given challenges of Indigenous community research
 - Many of these researchers are involved in today's workshop

- Pham et al. (cont)
 - Major Finding: Designs of these studies preclude conclusions about effectiveness
 - Controlled Studies: 1 RCT (Tingey, 2020) + 3 Quasi-experiments (LaFromboise et al., 1994, 1995; Allen et al., 2018)
 - Uncontrolled Studies: 21 Single group designs + 3 Case reports
 - Lessons Learned
 - It is not possible from this corpus to scientifically conclude which IVs "work" to prevent Indigenous suicide
 - Only 4 studies included comparison/control groups (with just 1 RCT)
 - Only 2 IVs appeared across multiple outcome studies (American Indian Life Skills + Qungasvik) = Limited replication

- Pham et al. (under review) Systematic Review of IV Rationales
 - Research Question: What logics or rationales have structured interventions aimed at preventing suicidal behaviors among American Indian / Alaska Native populations?
 - Broad inclusion criteria to capture wide range of IV studies reporting implementation findings
 - Identified 32 studies about 24 distinct IVs from 1976-2020 focused on attributes & characteristics of these programs
 - Concentrated in few US regions (e.g., Southwest, Alaska)
 - Settings include schools (N = 9) & communities (N = 8)
 - Youth focus (N = 16)

- Pham et al. (cont)
 - Classified studies according to established CDC prevention strategies
 - Promote connectedness (N = 15)
 - Create protective environments (N = 12)
 - Identify & support people at risk (N = 12)
 - Teach coping and problem-solving skills (N = 10)
 - Strengthen access & delivery of suicide care (N = 5)
 - Lessen harms & prevent future risk (N = 3)
 - Strengthen economic supports (N = 3)

- Pham et al. (cont)
 - Trends in Indigenous Suicide Research
 - Most communities *adopted* mainstream suicide IVs as the backbone of their programs
 - Most communities adapted these IVs to fit community needs & sensibilities (e.g., collectivist self-orientations, culture-astreatment, strengths-based approaches)
 - Comparably less emphasis on: transforming healthcare services (e.g., hiring more providers, improving depression treatment) + community-wide policies (e.g., firearm control, regulating alcohol access)

- Pham et al. (cont)
 - Adaptations for Indigenous Orientations & Commitments
 - Sociocentric selfhood & collectivist identities
 - Shared suffering, historical trauma, & psychosocial anomie
 - Preference for local (nonprofessional) helpers
 - Implementation of suicide prevention as a form of decolonization

- Pham et al. (cont)
 - Take Home Points
 - Indigenous communities both adopt and adapt mainstream suicide prevention strategies
 - Processes of IV adoption & adaptation are responsive to community orientations & commitments
 - Rigorously-designed scientific outcome studies are extremely rare
 - Effectiveness of these adapted community IVs remains an open scientific question

Reflections on Preventing Indigenous Suicide

Round 4

Reflections on Preventing Indigenous Suicide

- Four Facets of Indigenous Suicide Prevention
 - Development of EBP requires scientific research on IV outcomes
 - Robust IV outcome research is challenging & rare in our communities
 - Promotion of formal evidence-based suicide prevention in our communities will therefore require both adoption & adaptation of mainstream IVs
 - Our communities are already doing this

Reflections on Preventing Indigenous Suicide

- Four Questions Concerning Evidence-Based Suicide IVs (EBSIs)
 - How confident are we that mainstream EBSIs deserve special recognition & promotion in our communities?
 (as opposed to cultivating our own approaches)
 - What are the prospects for adopting & adapting additional mainstream EBSIs (e.g., means restrictions, better depression treatment)? (given striking capacity & resource constraints)
 - How can we design multilevel suicide IV programs across providers, domains, & settings?

(despite existing administrative challenges)

 What resources are available to us to develop more comprehensive suicide prevention services & to assess the impacts of those services? (as opposed to designing, adopting, & adapting *without* keeping track of outcomes)

Closing



For more information on these projects (& to download my publications) go to:

gonetowar.com

NASEM Virtual Workshop: Suicide Prevention in Indigenous Communities