

HEALING OPPORTUNITIES IN LAND LOVE AND ORIGINAL INSTRUCTIONS/HOLLO:

CONSIDERATIONS IN LAND-BASED HEALING AND MULTILEVEL RESEARCH METHODS AMONG INDIGENOUS YOUTH

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Relations Acknowledgement

As we gather here today, we acknowledge the Indigenous ancestors and their homeland. We pay respect to the ancestors of this place and reaffirm our relationship with one another and our ancestors and place. Choctaw/Chahta Ancestors/Alba Oma Mountain/ Talihina Nanih River/Bok Yannush Okla Hannali

Choctaw

Community Engaged Collaborator First generation Highschool graduate trained in human development and youth focused therapy

 Full Professor
 Indigenous Health Psychologist

Love of my ancestors

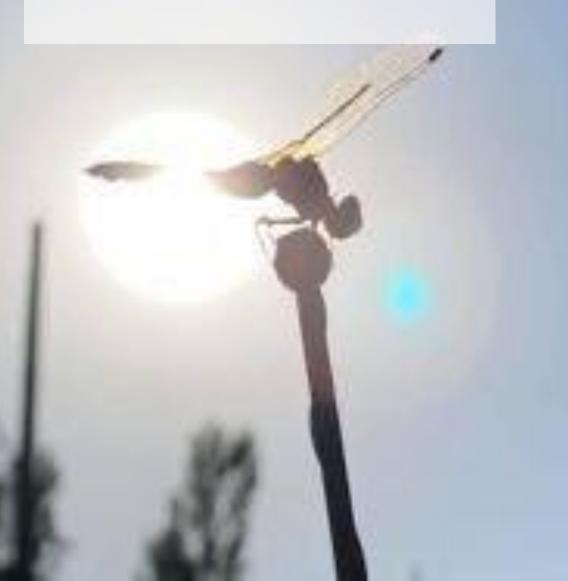
Future ancestors

• Storyteller

Land-based Narrative transformation therapy



Wellbeing Frameworks



Indigenous Wellbeing Framework

- Ancestors' instructions flow through land-based activities and stories
- Ancestral K around love and dealing with trauma
- Interrelationships human /non-human kin and balance = wellness
- Mother earth and women respected/sacred
- Focus on building future healthy ancestors

Western Colonial Framework

- Ancestors have diseases that they passed onto you
- Illness arises from negative individual experiences with pathogens or vulnerabilities
- Individual healing can occur void of context
- Distinction between mind, body spirit, nature
- Women and hollo/love are not sacred
- Feminizing love and rendering this "unscientific" "unmeasurable"

Transforming Trauma Relational Restoration

Oh Chash!

To identify reclaiming, revitalizing and reinventing approaches drawing from ancestral practices and embracing love and land





Land-Based Healing

(re) connecting to the land and centering the land in order to conduct healing, or a health intervention (Johnson-Jennings, Billiot, Walters, 2019. Returning to our Roots, Genealogy.)



Trauma and Love

- Both enduring for generations
- Both felt deeply and can affect our health, wellbeing and cells
- Both affected by past, current and future generations

Loving Research methods

- critical research pedagogy, engage the world as "an object of critical analysis" and as a place of "hopeful transformation" (p. 14. Giroux, 2011).
- Loving ethics to "working for a collective good" (Hooks, 2000)



Returning to the land leads to:

- Healing
- Opportunities
- Land
- Love
- Original instructions
- "I cannot be healthy unless my waters and land are healthy"
 - Jennings, Johnson-Jennings, & Little, 2018. Tribal obesity sovereignty



Scientific Benefits of Land-based Cultural Interventions



Removes one from daily stressor



Increases mild altering chemicals within the brain/mental health; increases immunity, decreases blood, glucose levels, and decreases cortisol



More likely to have a long-term change of behavior



Gets back in touch with mother earth/original instructions; Keeps grounded

Remember ancestral ways of healing



Reclaiming narratives to decolonize and Indigenize research methods ?

- While indigenizing is building up from our Indigenous knowledge, worldviews, and practices,
- decolonizing is simultaneously dismantling internalized colonization that permeates everyday living and infiltrates thought ways and practices.
- This includes decolonizing the mind, body, spirit, and heart (e.g., thoughts, behaviors, feelings) while concurrently revitalizing healthy cultural traditions and creating new traditions to thrive.
- Indigenous communities MUST be in control

(Walters, Johnson-Jennings et al., 2018)

Health Research Loving Steps For Indigenous communities: DIRT is needed First!



revitalizing

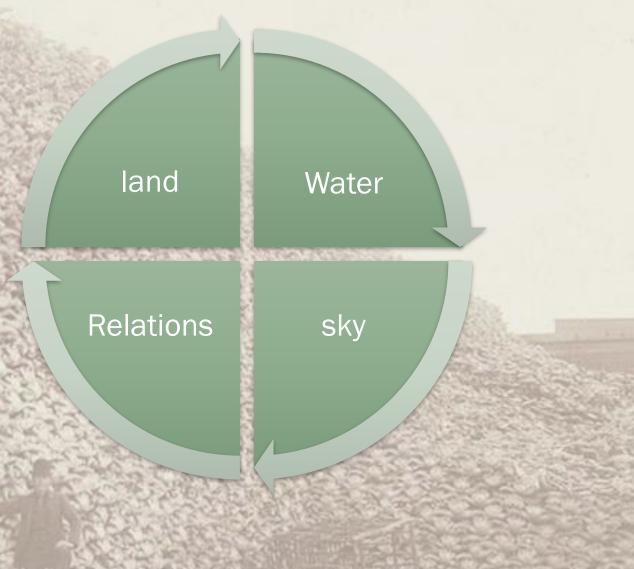
Indigenizing

decolonizing

thrivance

"Thrivance grows from ancestral knowledges and wisdoms, which then actuates healthful practices and well-being (Johnson-Jennings et al., 2019; Johnson-Jennings, Billiot, & Walters, 2019; Walters Johnson-Jennings, et al., 2020). "Walters & Johnson-Jennings, in press.

Land Trauma





Systematic disconnect from land and ancestral strengths

- Multiple spheres of influence on Indigenous child health that span generations, environments and worlds
- SDOH influence on youth extends beyond parental unit and peers, includes multigenerational household, grandparents and this has an affect on health behavior
- Many research methods do not account for this in the research design

National Institute on Minority Health and Health Disparities Research Framework

		Levels of Influence*			
	-	Individual	Interpersonal	Community	Societal
Domains of Influence (Over the Lifecourse)	Biological	Biological Vulnerability and Mechanisms	Caregiver–Child Interaction Family Microbiome	Community Illness Exposure Herd Immunity	Sanitation Immunization Pathogen Exposure
	Behavioral	Health Behaviors Coping Strategies	Family Functioning School/Work Functioning	Community Functioning	Policies and Laws
	Physical/Built Environment	Personal Environment	Household Environment School/Work Environment	Community Environment Community Resources	Societal Structure
	Sociocultural Environment	Sociodemographics Limited English Cultural Identity Response to Discrimination	Social Networks Family/Peer Norms Interpersonal Discrimination	Community Norms Local Structural Discrimination	Social Norms Societal Structural Discrimination
	Health Care System	Insurance Coverage Health Literacy Treatment Preferences	Patient–Clinician Relationship Medical Decision-Making	Availability of Services Safety Net Services	Quality of Care Health Care Policies
Health Outcomes		A Individual Health	Family/ Organizational Health	合 Community 合合 Health	Health

National Institute on Minority Health and Health Disparities, 2018 "Health Disparity Populations: Race/Ethnicity, Low SES, Rural, Sexual and Gender Minority

Other Fundamental Characteristics: Sex and Gender, Disability, Geographic Region

Multilevel interventions

- Novel,
- Examining health inequities through intersecting social determinants of health
- multi-level factors interact to impact these outcomes
- Require targeting multiple areas and measuring their outcomes
- can target and intervene between multiple risks and/or protective factors for health at multiple levels within the human ecology



Community engagement key to garner their perspective

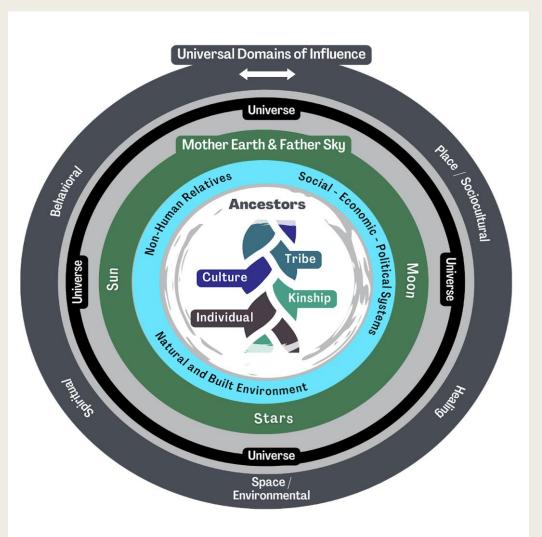
- Indigenous Elder scientific advisory council
- Youth advisory council
- Indigenous knowledge keepers/elder council

What is needed to conduct a multi-level framework among Indigenous vouth?

- Must spend much time not only in community engagement but in codeveloping the design
 - Must consider which levels of influence are most important to measure?
 - What are culturally appropriate ways to measure
- Must develop rigorous methods which cross systems of influence
- Must define and consider proper sdoh of influence

- 1. What kind of ancestor did my ancestors envision me to be?
- 2. What kind of ancestor do I want to be?
- 3. What kind of ancestor do I want or envision future generations to be?

Indigenous Multi-level interventions



- Considers individual as braided within
- Connection to natural world is interwoven with health outcomes
- We are connected and influenced by the greater universe- across generations forward and back
- Need multilevel intervention methods such as measuring holistic land-health metrics (i.e., measuring blood pressure and water health for instance)
- Healing occurs across these domains and more....

Johnson-Jennings, Rink, Stotz, Magarati, Moore, 2023. All Systems are Interrelated

Land-based healing as a research method

Facilitators

- Culturally appropriate
- ✤ Valid
- ✤ inclusive
- ✤ multi-level focused
 - Ex. Little Earth Johnson-Jennings et al., 2021
- Has significant influence on wellness among Indigenous youth
- Sustainable
- Can measure change in biopsychosocial arenas

Barriers

- ✤ Access to land/outdoors
- Planning/weather
- Startup costs
- Requires rigorous assessment tools
- Ethics of youth on land (safety)
- Staff training
- New field of study
- Dosage and response varies
- How do we measure bidirectional healing?



NIH RO1 Yappalli

Ancestral and nature connectedness and key PA = sustained behavioral changes post walk

NIH rO1 Wakaya: Rising Up for Choctaw Youth Health Land-based multilevel study

- Measures:
 - moderate to vigorous physical activity and sedentary behaviors
 - food activities
 - ATOD use and outcomes
 - psychosocial functioning
 - PYLD-related outcomes
 - Al-specific cultural protective factors
- Community Ripple effect
 mapping- focus groups



Painting:. M. Johnson-Jennings

Take away

 It's about creating a new place of research embedded within Indigenous culture... while disrupting the colonial lens and creating space for indigenous frameworks



Yakoke/Thank you!