FASD Prevention Efforts with American Indian Communities

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Presentation to the Alyce Spotted Bear and Walter Soboleff Commission on Native Children



University of Minnesota Duluth's Land Acknowledgement



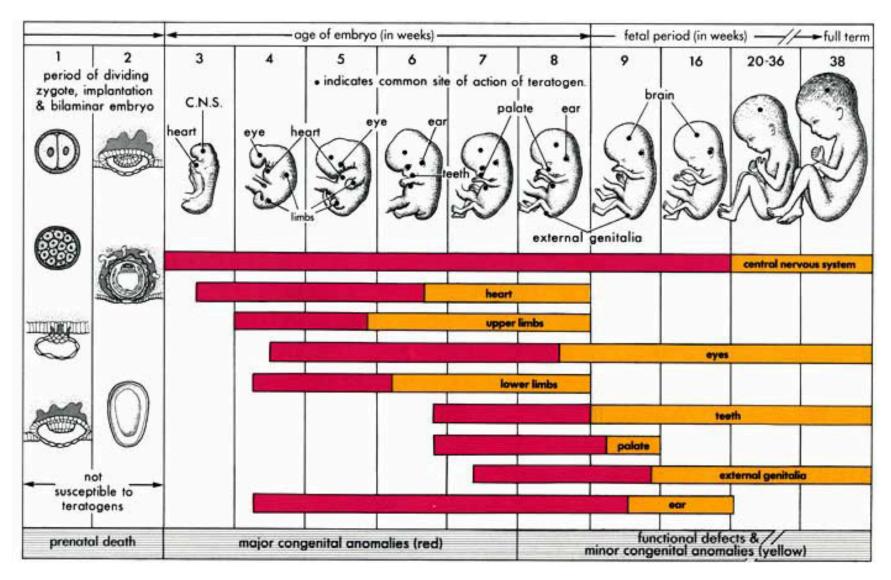
We collectively acknowledge that the University of Minnesota Duluth is located on the traditional, ancestral, and contemporary lands of Indigenous people. The University resides on land that was cared for and called home by the Ojibwe people, before them the Dakota and Northern Cheyenne people, and other Native peoples from time immemorial. Ceded by the Ojibwe in an 1854 treaty, this land holds great historical, spiritual, and personal significance for its original stewards, the Native nations and peoples of this region. We recognize and continually support and advocate for the sovereignty of the Native nations in this territory and beyond. By offering this land acknowledgment, we affirm tribal sovereignty and will work to hold the University of Minnesota Duluth accountable to American Indian peoples and nations.

Fetal Alcohol Spectrum Disorders

Continuum of outcomes in individuals prenatally exposed to alcohol.

➤ Leading preventable cause of disabilities in the U.S. (SAMHSA)





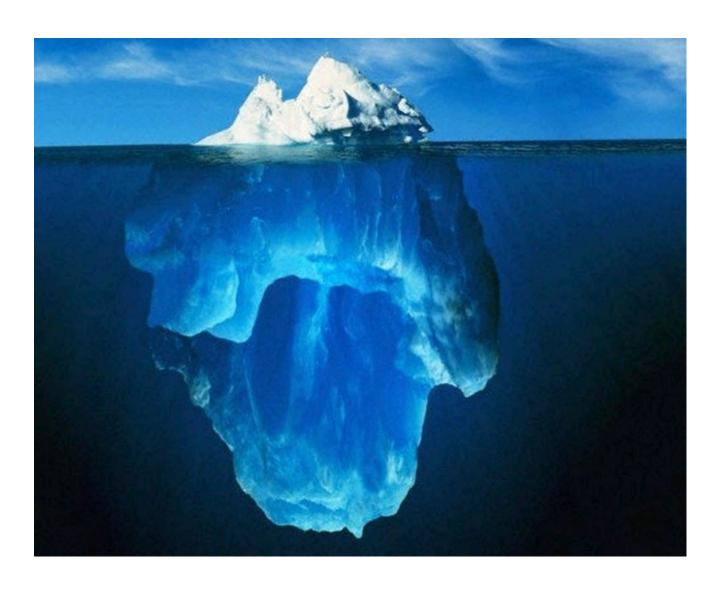
Source: Coles, C. (1994). Critical periods for prenatal alcohol exposure. Alcohol Health Research World, 18(1), 22-29

The Preventable Tragedy: Fetal Alcohol Syndrome National Geographic v. 181, No. 2. February 1992

"I was drinking a bottle of vodka a day that December, so out of touch that I didn't even know I was two months pregnant. When I found out, I quit there and then, but the damage was done."



Iceberg Analogy



Prevention of alcoholexposed pregnancy in Native women

CRITIQUES OF DATA



Not just an issue with American Indian communities but "it's worth our effort to stop FASD in our Nation."

(OST CHOICES Coordinator, 2015).



Prevention of FASD comes in many forms...

Source: Hanson JD, Winberg A, Elliott A. Development of a media campaign on fetal alcohol spectrum disorders for Northern Plains American Indian communities. Health Promot Pract. 2012 Nov;13(6):842-7. doi: 10.1177/1524839911404232.

Systematic Review of FASD Prevention with Tribes in the U.S.

Indicated Approaches

- Case management (Masis & May, 1991; May et al., 2008)
- CHOICES (Hanson et al., 2017)

Selective Strategies

- Telephone-based intervention (Hanson et al., 2013)
- Web-based SBIRT (Montag et al., 2015)*

Universal

- Education (May & Hymbaugh, 1989; Plaiser, 1989)
- Media campaign (Hanson et al., 2012)

*Only RCT in the published literature

Native AIR Native Communities – Alcohol Intervention Review

Native Communities - Alcohol Intervention Review



Fetal Alcohol Spectrum Disorder (FASD) Prevention Interventions

Intervention		Description	Cultural Engagement	Costs	Outcomes
	Educational Intervention 1. Ma et al. 1998	FAS prevention program that used educational materials (videos, study guides, flyers and brochures) to target Native American middle schoolers. • Setting: Local/Community, School • Level: Medium Sized Group (10-50) • Participants: Adolescents, Native, Male and Female • Staffing Needs: Credentials – Not specified; Background - Educator • Research Design: Pre-/Post-intervention data • Developmental Stage of Research: Early Stage	Cultural Inclusion: Medium TCBPR: Low	Startup: Medium (\$\$) Maintenance: Low (\$)	Medium/ Mixed Level of Change
	Screening, Brief Intervention, and Referral to Treatment (SBIRT) 2a. Montag et al. 2015 (ACER) 2b. Montag et al. 2015 (AJPH) 2c. Gorman et al. 2013	Culturally tailored, web-based Screening and Brief Intervention and Referral to Treatment (SBIRT) intervention administered to AI/AN women of child bearing age. Setting: Region, Clinic Level: Individual Participants: Young Adult, Adult, Native, Female Staffing Needs: Not specified Research Design: Randomized controlled experimental design Developmental Stage of Research: Early Stage	Cultural Inclusion: Medium TCBPR: Medium	Startup: Medium (\$\$) Maintenance: Low (\$)	Medium/ Mixed Level of Change

Intervention	Description	Cultural Engagement	Costs	Outcomes
3a. May & Hymbaugh 1989 3b. May & Hymbaugh 1982 Note: This intervention was reviewed using an earlier version of the coding scheme	A nation-wide FASD primary prevention project employing public education, training of clinicians, establishing clinics and referrals, and developing prevention materials for Native American and Alaska Native school children, prenatal women and community groups. • Setting: Local/Community, State, Region, National, Clinic, School, Rural, Reservation • Level: Multi-Level • Participants: Child, Adolescent, Young Adult, Adult, Native, Male and Female • Staffing Needs: Credentials - Advanced/Licensed Degreed Professional, Certified Professional; Background – Educator, Community Leader • Research Design: Program Evaluation	Cultural Inclusion: Medium TCBPR: Low	Start up: High (\$\$\$) Maintenance: Medium (\$\$)	Low Level of Change
4. Enhanced Case Management 4. May et al. 2008	Case management (CM) intervention provided to women at high risk of drinking during pregnancy as a part of a comprehensive FAS epidemiology and prevention program in four American Indian communities in the Northern Plains states. • Setting: Reservation • Level: Individual • Participants: Young Adult, Adult, Native, Female • Staffing Needs: Not Specified • Research Design: Pre-/Post-intervention data • Developmental Stage of Research: Early Stage	Cultural Inclusion: None TCBPR: Low	Startup: High (\$\$\$) Maintenance: Medium (\$\$)	Medium/ Mixed Level of Change
 7. Comprehensive Program for High-risk Women 7. Masis and May 1991 	This comprehensive FAS prevention program included presenting education materials; screening for alcohol use in prenatal clinics; case management, counseling, personal support, social and medical services for women at risk. • Setting: Clinic, Reservation • Level: Individual • Participants: Adolescent, Young Adult, Adult, Native, Female • Staffing Needs: Not Specified • Research Design: Pre-/Post-intervention data • Developmental Stage of Research: Early Stage	Cultural Inclusion: Low TCBPR: Low	Startup: High (\$\$\$) Maintenance: High (\$\$\$)	Medium/ Mixed Level of Change

Intervention	Description	Cultural Engagement	Costs	Outcomes
5. Media Campaign and Remotely Delivered Screening and Brief Intervention (CHOICES) 5a. Hanson et al. 2012 5b. Hanson et al. 2013 Note: This intervention was reviewed using an earlier version of the coding scheme	After a media campaign to prepare and recruit Native women the intervention consisted of motivational interviews administered by phone and self-guided change workbooks. Personalized feedback provided on risk for alcohol exposed pregnancy due to poor birth control use and drinking. • Setting: Region, Rural, Reservation • Level: Individual • Participants: Young Adult, Adult, Native, Female • Staffing Needs: Credentials - Not Specified; Background - Community Members • Research Design: Program Evaluation	Cultural Inclusion: Medium TCBPR: Medium	Startup: High (\$\$\$) Maintenance: Low (\$)	Medium/ Mixed Level of Change
6. Personally Delivered Oglala Sioux Tribe (OST) CHOICES Program 6a. Hanson et al. 2017 6b. Hanson et al. 2016 6c. Hauge et al. 2015	Oglala Sioux Tribe (OST) CHOICES Program is a culturally adapted version of an evidence based intervention (EBI) to reduce alcohol exposed pregnancy (AEP) by reducing drinking and/or improving birth control use. The intervention was administered to non-pregnant American Indian women at risk for AEP in midwestern Northern Plains areas. • Setting: Local/Community, Urban, Reservation • Level: Individual • Participants: Young Adult, Adult, Native, Female • Staffing Needs: Credentials not specified; Background – Community Members • Research Design: Pre-/Post-intervention data • Developmental Stage of Research: Early Stage	Cultural Inclusion: Medium TCBPR: High	Startup: High (\$\$\$) Maintenance: Medium (\$\$)	Medium/ Mixed Level of Change

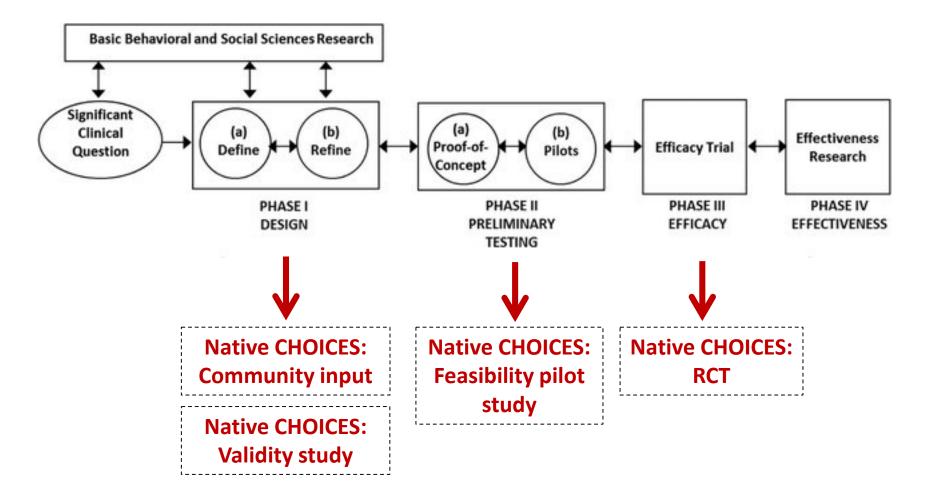


Application of the ORBIT Model to Reframe FASD Prevention

Translational Research Context

Public Health Model of a Scientific Approach to Prevention Research 17 Years! **Practice Implement** Interventions & Develop & Measure Test Identify Prevention Interventions Causes Effectiveness Define Problem Community Risk factor **Evaluation** Data collection interventions identification research Surveillance Demonstration programs Training Public awareness

Application of the ORBIT Model on Preconceptual FAS Prevention with Native Communities



Source: Czajkowski SM, et al. From ideas to efficacy: The ORBIT model for developing behavioral treatments for chronic diseases. Health Psychol. 2015 Oct;34(10):971-82. doi: 10.1037/hea0000161.



Epidemiology and Surveillance

Future Research



Stigma



Phase IV
Effectiveness/
Dissemination &
Implementation
Research





Thank you!