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Expansion of FASD Services in Queensland Establishing Diagnostic Services in Remote Communities. Australian Government Department of Health: Drug and Alcohol Prevention and Early Intervention: Fetal Alcohol Spectrum Disorder Diagnostic Services and Models of Care Grant (H1617G038)



Prevalence of Fetal Alcohol Spectrum Disorders in 4 US Communities

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- 1.13 5% conservative estimate
- 3.11 9.85% less conservative estimate
- 0.01% previously identified

MAIN OUTCOMES AND MEASURES Prevalence of fetal alcohol spectrum disorders in the 4 communities was the main outcome. Conservative estimates for the prevalence of the disorder and 95% Cls were calculated using the eligible first-grade population as the denominator. Weighted prevalences and 95% Cls were also estimated, accounting for the sampling schemes and using data restricted to children who received a full evaluation.

RESULTS A total of 6639 children were selected for participation from a population of 13146 first-graders (boys, 51.9%; mean age, 6.7 years [SD, 0.41] and white maternal race, 79.3%). A total of 222 cases of fetal alcohol spectrum disorders were identified. The conservative prevalence estimates for fetal alcohol spectrum disorders ranged from 11.3 (95% CI, 7.8-15.8) to 50.0 (95% CI, 39.9-61.7) per 1000 children. The weighted prevalence estimates for fetal alcohol spectrum disorders ranged from 31.1 (95% CI, 16.1-54.0) to 98.5 (95% CI, 57.5-139.5) per 1000 children.

CONCLUSIONS AND RELEVANCE Estimated prevalence of fetal alcohol spectrum disorders among first-graders in 4 US communities ranged from 1.1% to 5.0% using a conservative approach. These findings may represent more accurate US prevalence estimates than previous studies but may not be generalizable to all communities.



Getting FASD into routine care

- In Queensland, FASD assessment and diagnosis currently undertaken in specialist FASD clinics
 - Time intensive
 - Long waitlists
- Estimated that 3 357 multidisciplinary diagnostic clinics are required – just to assess new cases ~ Prof Larry Burd, International FASD Conference, 2017
- Often seen as too complex to be diagnosed by General Practitioners
- We are working towards enabling primary care practitioners to take part in FASD assessments
- Particularly in remote areas without access to specialist services

Northwest Queensland Communities

- Population is approximately 32 621
- 23.1% 94% of people identify as First Nations (compared to 3.1% for QLD)
- Half of the population is in the lowest category for socioeconomic disadvantage
- More than 85% in some areas the most disadvantaged category

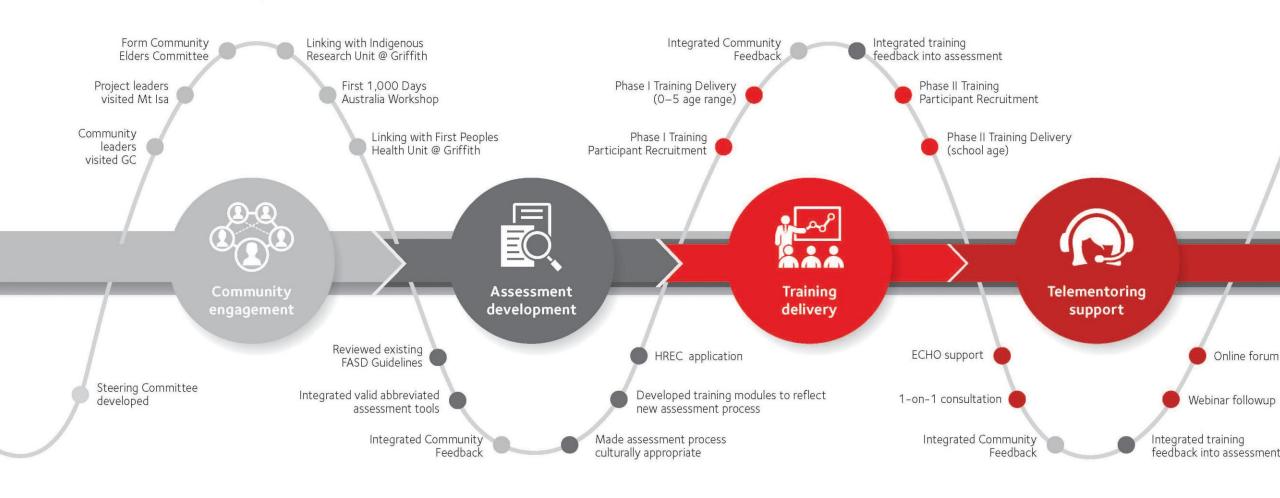




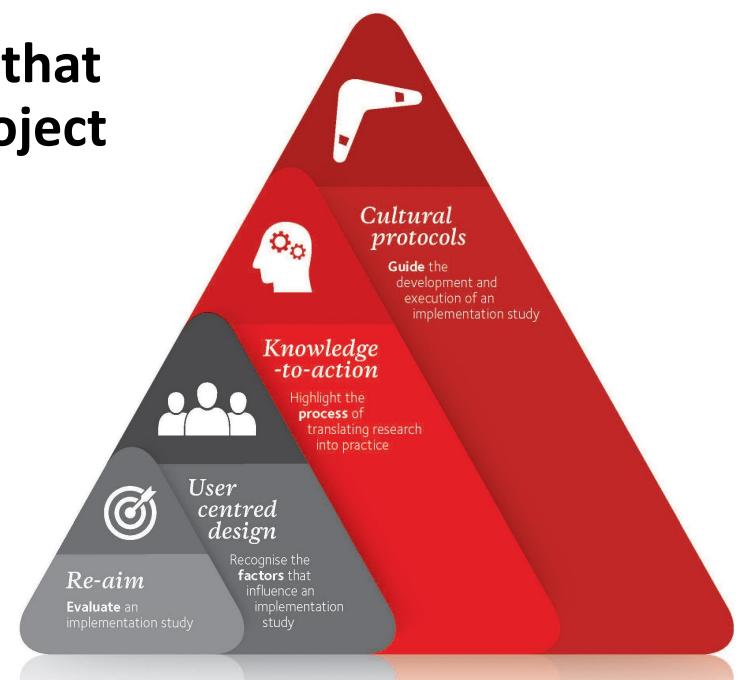
Project Objectives

- 1. Co-create an FASD model of care that <u>integrates seamlessly</u> with established community practices
- 2. Train remote practitioners with <u>varying levels of experience</u> in the diagnosis and management of <u>neurodevelopmental disorders</u>, specifically FASD
- 3. Sustainably support the new service delivery model by providing ongoing tele-mentoring support from neuro-developmental experts

The journey of empowering remote communities to address FASD



Frameworks that Guide the Project



Community Context

- Limited services, no local FASD specialists; 2 year waitlist at closest FASD specialist clinic (5 hr travel time)
 - Psychologists, Speech pathologists, OTs, Physios not always available
- Conducted a recent FASD training day in the region
 - 90 practitioners across 32 organisations
 - enthusiasm to contribute to assessments in the local area
 - Importance of a culturally appropriate assessment process
 - Framework for explaining the assessment process
 - Culturally sensitive informed consent
 - Soft-entry to the assessment process
 - Indigenous Health Worker (Elder) coordinating client care







Co-creating a Tiered Assessment Process (TAB)

- Break the assessment process into manageable chunks
- Dreamtime story supports the assessment process
- Health workers or educators as well as Allied Health Practitioners, nurses, GPs and other primary care providers collect information
- Valid and reliable measures of brain domains completed in the child's daily living environment
- Diagnostic decision making conducted by GPs, Psychologists or Paediatricians available in the community
- Outlines clear decision support tools for referral to specialist
- Flexibly yet consistently apply the Australian FASD guidelines for diagnosis

Tiered Assessment Overview

Tier 1: Collecting consent and sharing the dreamtime story

Principle: Informed consent and understanding the assessment journey is integral

Tier 2: Developmental interview and facial features

Principle: Understand the child's context and background

Tiered Assessment Overview

Tier 3: Rapid Neurodevelopmental Assessment

- Principle: Learn about the child's abilities and skills
 - A snake with great reflexes (reflexes).
 - A goanna running up and down the river (gross motor).
 - A koala drawing a picture while looking at the tree (fine motor).
 - An owl with big eyes (vision).
 - A bird listening to the sounds of the winds and water (hearing).
 - A Kookaburra yapping away (speech).
 - A wombat thinking very deeply (cognition).
 - A crocodile in the river looking at everyone's behavior (behavior).
 - And a Kangaroo jumping up and down making the ground shake (seizures).

Tier 4: Adaptive, Attention, Executive Functioning, Affect and Academic Assessments

 Principle: gather more information to further inform diagnosis and support for the child and family

Overview of the tiered assessment process

Tier 5: Feedback and strategies

- Principle: Build a positive self-identity, changing the environment to meet the child where they are at, changing our expectations of successes and failures.
- Principle: Build strong relationships, enhance child development (play, read, diet)

Tier 6: Further specialist assessments and/or case conference

 Principle: More detailed information may be needed in any of the 10 neurodevelopmental domains



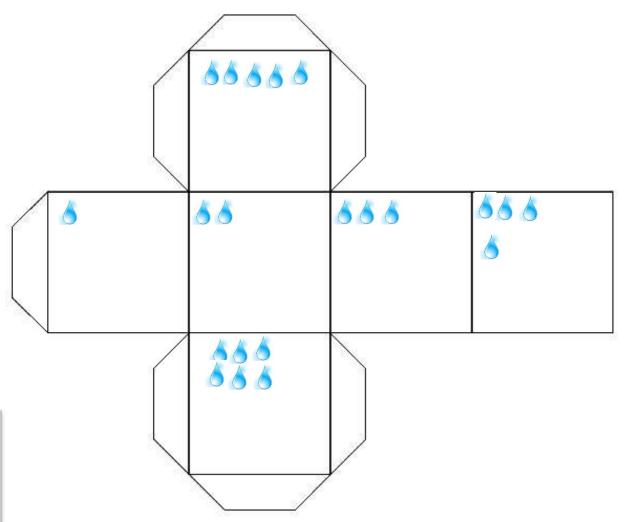
Dreamtime story: By Marjad Page















- No matter what you think, feel and do, you are mine and I will be with you.
- No matter how you move, hear and see, you are mine and will be MY CALM BABY.
- So let's discover ourselves on this journey, together as a family.

After that one rain drop fell from the sky, and the river started to fill up.



Tier 2



- No matter what you think, feel and do, you are mine and I will be with you.
- No matter how you move, hear and see, you are mine and will be MY CALM BABY.
- So let's discover ourselves on this journey, together as a family.

After that one rain drop fell from the sky, and the river started to fill up.



- You are you and that's good enough. You are not a kangaroo, but you are tough. You are you and that's what I need. You are not a koala, but you are a good seed. You are you and that's what the world screams for. You are not a wombat, but you are Marjad and will continue to soar.
- Five rain drops fell from the sky, and the river started to flow.



Where we are headed

- 1. Does TAB produce the same outcomes as FAB?
- 2. Can primary care practitioners (GPs) play a larger role in the assessment process as part of routine practice?
- 2. Cost-effectiveness of the TAB process compared to the FAB process?
- 3. How generalizable is the TAB process to new communities?



THANK-YOU







