Health Professionals' Perceptions of Training to Identify Infants with Early Signs of ASD in New Zealand.



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Background

- Current estimations suggest that 1 in 62 (1.6%) of children in New Zealand have a diagnosis of a utism. (Ministry of Health, 2018).
- There is persuasive evidence to suggest that the symptoms of a utism especially those of communication and social attention – are present in infancy. (Camar 2014; Fäldt, Nordlund, Holmqvist, Lucas, & Fabian, 2019).
- Despite this, the average age of diagnosis in New Zealand is 6.6 years old. (Eggleston, Thabrew, Frampton, Eggleston, & Hennig, 2019).
- In order to maximise the opportunity for early intervention, early detection and diagnosis of autism are imperative.
- The American Academy of Pediatrics (AAP) has recommended a universal screening approach for optimal, earliest detection of infants with signs of ASD.
- They promote a combination of developmental surveillance at wellness checks, promote a combination of developmental surveillance at wellness checks for children aged 12-24 months, with the use of autism specific instruments when a child's development is of concern (Pinto-Martin et al., 2008; Robins, 2008; Zwaigenbaum et al., 2015).

What's in the literature?

- A limited number of international studies evaluating the effects of implementing a developmental surveillance model at child wellness checks.
 - Most showing very positive results.
- Two studies evaluating nurse perceptions of

 - Fäldt et al. (2019)
 Barbaro, Ridgway and Dissanayake (2011)
- No studies evaluating the efficacy, or feasibility of such a model in New Zealand.



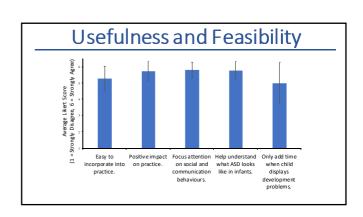
The Current Study

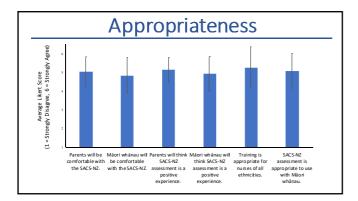
- Analysed appropriateness, usefulness, and feasibility of a developmental surveillance model to detect autism in New Zealand.
- Ran concurrently with a study analysing the efficacy of the training.
- Asked four questions:
 - Do health professionals perceive the SACS-NZ to be a
 - us eful developmental surveillance tool to use in NZ? Do they perceive its widespread implementation to be
 - Do they think that the tool is appropriate for use with families of all ethnicities, especially Mā ori whānau?
 - Does the training, and the use of the SACS-NZ in wellchild checks, enable the health professionals to feel confident that they can identify the early signs of autism in children aged 12, 18, 24, and 30 months old?

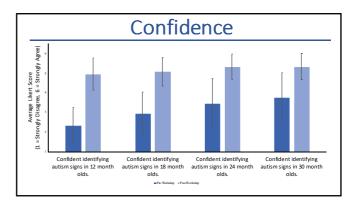


Method

- Participants: 53 Well-Child Tamariki Ora professionals from the Wellington region with one of the following roles: nurse, health worker, clinic leader, Plunketline nurse, community Karitane, and Plunket Kaiawhina.
- Training: A one-day workshop, facilitated by Dr Josephine Barbaro, on typical development, the early signs of autism, misconceptions about autism, and the use of the SACS-NZ as an autism-specific surveillance tool.
- · Questionnaires: Pre and post-workshop questionnaires were collected at the one day training.
 - Participants rated statements pertaining to usefulness, perceived feasibility, appropriateness, and confidence on a 6 point likert scal
 - Qualitative questions about appropriateness for use with all ethnicities.







Challenges/Limitations

- Challenges:
 - Workshop clash
 - Response fatigue
 - Missing data
 - Attrition

• <u>Limitations:</u>

- Current lack of follow up analysis purely initial perceptions
- Pākehā participants unwilling to evaluate appropriateness for Mā ori/other cultures
- Small sample size
- Generalisability

Future Directions

- Follow up data do perceptions change with the opportunity to
- More: trainings, nurses, diversity of sample.
- Consider the perceptions of parents
 - With developmental concerns
 - Without developmental concerns



Practical Implications

- Shaping a successful developmental surveillance model for ASD in New Zealand.
 - (Ideally) decreasing age of diagnosis.
 - Decreasing familial stress associated with 'waiting'.
 - $\bullet \ \, {\tt Increasing possibility of early intervention}$
 - Providing opportunity for a utistic children to reach their potential.

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