COREQ (Consolidated criteria for reporting qualitative research)

This checklist is intended to supplement the manuscript by providing further detail on methodology.

Domain 1: Research team and reflexivity

Personal characteristics

1. Interviewers

Cervantée Wild & Ngauru Rawriri conducted the interviews (page 8).

2. Credentials and 3. Occupation (page 1)

Cervantée Wild (BHSc(Hons), BA) - PhD candidate, Liggins Institute, University of Auckland

Ngauru Rawiri – BHSc student, Te Reo Māori teacher (tertiary level) and interview facilitator, Liggins Institute, University of Auckland

Paul Hofman (MbChB, Dip Obs, FRACP) - Professor and paediatric endocrinologist

Esther Willing (PhD) – Lecturer in Hauora Māori, Kōhatu – Centre for Hauora Māori, University of Otago

Yvonne Anderson (PhD, Dip Paeds, MBChB, FRACP, BSc [Psych]) – Senior research fellow and paediatrician

Gender & ethnicity

CW - female, New Zealand European

NR – female, Māori (Ngāti Mutunga, Ngāti Tama, Ngāti Rāhiri o Te Ati Awa me Ngai Tūhoe)

PH - male, New Zealand European

EW – female, Māori (Ngāti Toarangatira, Ngāti Koata me Ngā Ruahine)

YA – female, New Zealand European

5. Experience and training

CW had qualitative research training through the PhD (supervised by PH, EW, and YA). NR had interview experience through her career. PH is an experienced researcher in child health and endocrinology. EW is an experienced qualitative researcher and has extensive experience in Māori health research. YA is an experienced researcher in child health, especially childhood obesity.

Relationship with participants

6. Relationship established

All participants were recruited as described below, and some were already known to NR through relationship networks.

7. Participant knowledge of the interviewer

The participants knew the reasons for conducting the research (detailed in the patient information and consent form), and participants were aware that the study would specifically ask about the factors that contributed to their decisions to engage or not engage, in order to improve the service. Participants were also aware that the interviewers were separate and distinct from the clinical service team.

8. Interviewer characteristics

NR is a Māori researcher (of Ngāti Mutunga, Ngāti Tama, Ngāti Rāhiri o Te Ati Awa and Ngai Tūhoe descent) and CW is New Zealand European. This mixed Indigenous – non-Indigenous partnership allowed us to connect and establish rapport with participants, depending on the interview participant and context. NR's role as a parent had the advantage that familiarity with this stage of life helped her understand participants' stories and ask exploratory questions.

Domain 2: Study design

Theoretical framework

9. Methodological orientation and Theory

The research approach was informed by Kaupapa Māori theory. The approach was developed to minimise any perceived power imbalances between the interview team and the participants and make the interview experience as comfortable as possible. We used thematic analysis to analyse the interviews (page 7).

Participant selection

10. Sampling and 11. Method of approach

We identified eligible potential participants who fit the criteria, and then stratified these participants into groups by engagement level and ethnicity. We then randomised the list of potential participants in each group, and then contacted each participant one by one (stratified random sampling). Participants were recruited by telephone and interviewed in person over a six-month period from June to December 2018 (page 8).

12. Sample size

For funding and resource reasons, we had a maximum total of 74 potential interviews with families. We conducted 64 interviews in total (page 10).

13. Non-participation

We approached 136 families, of which 53 were uncontactable, 7 agreed but were unable to be interviewed as they had moved out of the region, and 12 declined because they were not interested, were too busy with work, or did not remember the referral (page 11).

Setting

14. Setting of data collection

Participants were interviewed in person at their home, workplace, or at a local community child health centre. All participants chose where they would prefer to be interviewed (page 8).

15. Presence of non-participants

For most interviews, only the participant and interviewers were present, but there were occasionally other family members present, such as young children (<5 years) (page 8-9)

16. Description of sample

Half the interviews were with families with Māori children. Most (80%) were solely with a female parent/caregiver (13 interviews included male parents and/or caregivers). 11 interviews involved two or more family members. 5 interviews included a child participant (page 10).

Data collection

17. Interview guide

A semi-structured interview framework was used and adjusted for relevance as each interview progressed. It was not pilot tested. The guide has been included as supplementary material.

18. Repeat interviews

Repeat interviews were not conducted, but participants were offered their transcripts for review after the interview (page 9).

19. Audio recording

Interviews were audiotaped digitally and transcribed by a medical typist (page 9).

20. Field notes

Field notes were made after each interview and kept as part of a reflexive notes.

21. Duration

Interview audio recordings ranged from nine minutes to 107 minutes (mean 31 minutes).

22. Data saturation

Data saturation was reached in each group of participants in each level of engagement.

23. Transcripts returned

Transcripts were anonymised and returned to the participant for checking, including deletions of portions if desired (page 9).

Domain 3: analysis and findings

Data analysis

24. Number of data coders

Eight transcripts were independently coded by CW and EW and discussed for consistency. After the coding matrix was constructed and consensus on codes reached, all transcripts were coded again by CW.

25. Description of the coding tree

A 'mind map' was used instead of a coding tree in order to better capture complexity and avoid an artificial hierarchy that did not adequately represent the inter-relationships between the themes, since themes could become more major or minor depending on the context.

26. Derivation of themes

Themes were derived from the data according to Braun and Clarke's 2006 and 2019 method for reflexive thematic analysis (page 9).

27. Software

MAXQDA software was used to manage the data (page 9).

28. Participant checking

Participants did not provide feedback on the findings.

Reporting

29. Quotations presented

Participant quotations are presented in Panel 1 and throughout the manuscript. They are not identified by participant number (page 11-12).

30. Data and findings consistent

There was good consistency between data and findings, with the two interviewers working to discuss findings and the wider research team providing critique and challenging interpretations of data (page 9).

31. and 32. Clarity of major and minor themes

A distinction was made between 'major' and 'minor' themes with sub-themes capturing the range of participant experiences under each major theme. However, even major themes could not be cleanly separated, reflecting real-world complexity.

Reference: Tong A, Sainsbury P, Craig J. Consolidated criteria for reporting qualitative research (COREQ): a 32-item checklist for interviews and focus groups. Int J Qual Health Care 2007; 19, 349–357. doi: 10.1093/intqhc/mzm042

NB. This checklist has been amended to capture ethnicity and gender breakdown, to reflect the composition of the research team.