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Parenting children who are enterally fed: How families go from surviving to thriving

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Abstract

Background: Complex feeding difficulties requiring enteral (tube) feeding affect everyone around the child. Parents experience additional stress and are at risk of social isolation. This study investigated the strategies families develop and use to adjust and adapt to enteral feeding so they were not just surviving but thriving as a family.

Methods: Twenty parents whose children had been or continued to be enterally fed were interviewed, four of them twice as their experience of enteral feeding progressed. Learning theory was used to conceptualize findings in terms of changing use of tools that mediated parents' response to feeding-related challenges.

Results: Parents encountered dilemmas relating to enteral feeding: maintaining participation in everyday activities, managing responses to the use of tubes for feeding, and doing what feels right for their child. They used four kinds of mediating tools to overcome these: memory aids and readiness tools, metaphors and narratives, repurposed everyday objects and personalized routines and materialities.

Conclusions: This novel account of tool used to resolve dilemmas provides an empirically and theoretically grounded basis for supporting parents to thrive despite the challenges of enteral feeding. Specifically, it can guide information given to help parents anticipate and cope with dilemmas arising from enteral feeding.

KEYWORDS

Parenting, Feeding Disorders, Carers, Eating, Complex Needs, Childhood Disability

1 | INTRODUCTION: ENTERAL (TUBE) FEEDING

Caring for children with complex needs presents significant challenges to parents (Singhal, Baker, Bojczuk, & Baker, 2017). However, parents often persevere as 'unsung heroes' (Carter, 2016, p. 265), developing crucial knowledge and expertise. The study investigated parents' learning as carers of children who are enterally fed.

Knowledge of the impacts enteral feeding has on families is not matched by knowledge of parents' journeys from surviving to thriving – their learning. Addressing this gap provides a fuller picture of the roles and responsibilities of parents in care of children who are enterally fed (Ramchandani, 2007) and can help healthcare professionals 'sustain and enhance parental confidence, competence and skills so that they are able to focus on being their child's parent' (Carter, 2014, p. 100).

Feeding problems affect a significant proportion of otherwise healthy children, with figures suggesting 40% (Northstone, Emmet, Nethersole, & ALSPAC Study Team, 2001), 45% (Linscheid, 2006) and 50%, rising to 80% of those with developmental delays (Borowitz & Borowitz, 2018). For children who are malnourished or unable to eat and drink orally, enteral feeding (also called tube feeding) can be required to ensure growth and sustain life (Krom et al., 2019). Reasons for this include preterm birth, airway difficulties, major surgery, cancer treatment, cerebral palsy, autistic spectrum disorder, cleft palate, global developmental delay, gastro-oesophageal reflux (GOR) and congenital abnormalities (Krom et al., 2019; Pearce & Duncan, 2002). Prevalence data for enteral feeding vary widely and are thought to be underestimated, with figures quoted between 1 and 92 per 100,000 children (Krom et al., 2019), and an international estimate suggesting 4 per 100,000 children (Edwards et al., 2016).

Enteral feeding delivers nutrition directly into the gastrointestinal system. Two common approaches include a nasogastric (NG) tube through the nose to the stomach, or a surgically placed percutaneous endoscopic gastrostomy (PEG) from the skin near the navel to the stomach (Singhal et al., 2017). Tube placement using fluoroscopic guidance is also used in interventional radiology, though is less common in Australia where this study was conducted, and had not been used with any of the participating families. Enteral feeding is required when a child cannot eat or drink orally sufficiently or at all.

Although enteral feeding solves the problem of nutrition, it can be a source of difficulty. Such difficulties include not only biomedical side effects on the child but also psychosocial impacts on the family, including anxiety, emotional distress and social isolation (Cerezo, Lobato, Pinkos, & LeLeiko, 2011; Morton, Marino, Pappachan, & Darlington, 2019). Once enteral feeding is established, issues relating to coping with everyday life become prominent (Enrione, Thomlison, & Rubin, 2005), with elevated risk of anxiety or depression in parents (Pedersen, Parsons, & Dewey, 2004; Pedrón-Giner, Calderón, Martínez-Costa, Borraz Gracia, & Gómez-López, 2013). This means that in addition to nutrition and growth, enteral feeding needs to be understood and cared for with regard to child emotional well-being and social participation (Morrow, Quine, & Craig, 2007) and caregiver quality of life (Joachim et al., 2019).

A lack of information on how enteral feeding fits into everyday life is a concern (Craig, Scambler, & Spitz, 2003; Liley & Manthorpe, 2003; Syrmis, Frederiksen, & Reilly, 2019). Reported difficulties include restricted ability to go out and maintain family activities, childcare problems, missing 'special time' with the child, and impinged parent-child interactions during mealtimes (Brotherton, Abbott, & Aggett, 2007; Sleigh, 2005; Veness & Reilly, 2008).

Mothers of children with feeding and/or swallowing difficulties describe loss and disempowerment, 'getting through the brokenness', and struggles to balance competing interests (Hewetson & Singh, 2009, p. 322). Parents report stigmatization and normative expectations associated with parenting (Brotherton et al., 2007; Craig & Scambler, 2006; Judson, 2004; Sleigh, 2005). Seemingly simple things like going to a café become complex, and household organization is disrupted (Whiting, 2012).

Key messages

- Parents of children who are enterally fed face significant challenges
- What matters to parents can create tensions between participating in 'normal' activities versus avoiding negative experiences
- Parents can resolve these dilemmas by creating and using specific tools that aid memory, readiness, normalising responses, and adapting to unique circumstances.

Parents can become 'experts', possessing knowledge that health professionals do not (Reeves, Timmons, & Dampier, 2006). This develops as care needs evolve over time (MacDonald & Callery, 2008), reflecting development of skills, negotiating caregiving and adapting to changing treatments (Swallow, Lambert, Santacroce, & Macfadyen, 2011). Despite the challenges of enteral feeding, parent narratives often convey perseverance, adaptation and coping (Carter, 2016; Murphy, Christian, Caplin, & Young, 2007). The learning involved is not well understood.

Better support for families with regard to tube feeding following discharge from hospital is needed (Zamvar et al., 2014). This can be facilitated by understanding how parents learn to overcome challenges relating to enteral feeding. The study answered the following research questions:

1. What matters to parents of children who are enterally fed in their everyday practices?
2. How do parents resolve challenges associated with enteral feeding in everyday life?

In posing these questions, the study was informed by cultural-historical theory. Cultural-historical approaches draw on the original work of Vygotsky (1997), particularly his approach to studying learning in relation to the use of 'tools' (Edwards, 2017).

Learning is understood in terms of changing ways people understand something and changing ways they act (Edwards & Mackenzie, 2005). Cultural-historical analysis focuses on what people do (their practices), their reasons for and investments in doing so (their motive orientations), and the tools they use (Clerke et al., 2017; Hopwood, Day, & Edwards, 2016).

A cultural-historical approach to motive focuses on what matters to oneself and others involved in a particular practice (Edwards, 2017). This study explored what mattered to parents in their everyday practices, taking into account what they felt mattered to the child who was enterally fed, siblings and others. This was explored through Research Question 1.

Learning is conceptualized as arising when people recognize and meet demands while engaging in practices that matter to them

(Hedegaard, 2018; Hopwood & Edwards, 2017). Cultural-historical theory directs attention to the use of tools in this process.

The tools people use in practices can take various forms. They may be physical (tape used to keep NG tubes in place, reminders placed on a fridge door) or conceptual (mnemonics, ideas, ways of categorizing things) (Hopwood, 2015). The use of tools in purposeful activity is referred to as mediation. This informed analysis for Research Question 2.

Cultural-historical researchers regard mediation as significant for two reasons. First, the mediating tool redirects attention from a problem towards the solution. Second, acting in a mediated way can have a legacy: the person using the tool can be changed in the process. This is referred to as reverse action (Hopwood, 2015; Hopwood, 2019; Vygotsky & Luria, 1994).

2 | METHODS

Data were collected by interviewing parents of children who were or had been enterally fed using an NG and/or PEG. All families were based in Sydney, Australia. They were recruited through multi-disciplinary paediatric feeding clinics and word of mouth through an informal online group for parents of children who are enterally fed. The study received approval from relevant Health and University Human Research Ethics Committees (see Ethics Statement).

Twenty parents participated, two of whom were husband and wife, while one had more than one child who was enterally fed. Of the 20 children discussed, six had weaned from an NG to oral feeding, two had transitioned from an NG to a PEG and then been weaned, four were still using an NG, seven had changed from an NG to a PEG that was still in use, and one had passed away while feeding using a PEG. The children were between several months to 7 years old at the time of study, and reasons for enteral feeding included extreme premature birth, cleft lip/palate, developmental delay, Down syndrome, Noonan's syndrome, oral aversion linked to autistic spectrum disorder, aspiration and instances of rare genetic disorders. Seventeen children received an NG tube at or within days of birth, the remainder at 9 weeks, 35 weeks, and 14 months. The eight who fed orally transitioned away from the tube between 4 months and 2 years of age. Those who were fed via a PEG had this inserted between 12 and 18 months of age.

Two-hour focus groups were conducted, followed by 10 one-to-one hour-long interviews 6 to 12 months later. Six parents participated in a focus group only, 10 participated in an interview only and four in both. All focus groups were conducted in person. Depending on parents' preference, interviews were either conducted in person, via phone or online video call (six opted for phone or online interviews).

Each interview or focus group began with an invitation for parents to tell their tube-feeding story. This was informed both by the project's Parent Advisory Group and by narrative interview techniques (Anderson & Kirkpatrick, 2016). The later part of each discussion was relatively open, guided by prompts such as: What feels

easier to you now than it did initially? What advice would you give a parent who is just beginning enteral feeding? and what do you wish you had been told earlier? This approach, asking about changes in everyday practices and how people might advise others, has precedent in cultural-historical research and avoids some of the pitfalls of asking people directly about their expertise (which can produce thinner responses). It grounds the discussion in everyday practices, which is revealing of knowledge and expertise when analysed from a cultural-historical perspective (see Hopwood & Clerke, 2019).

Analysis iteratively combined a purposive aspect reflecting theoretical interests with grounded development of themes (Srivastava & Hopwood, 2009). MAXQDA software was used to code the data. Two rounds of coding were conducted, each of which involved multiple iterations to identify and refine themes, and followed MacQueen, McLellan, Kay and Milstein's (1998) approach to codebook development (title, definition, inclusion/exclusion criteria and example). The first round focused on Research Question 1 and what mattered to parents. The second round identified patterns in mediating tool use in order to address Research Question 2.

3 | RESULTS

Table 1 outlines the main themes that were identified in relation to each research question. These are then considered in more detail below

3.1 | RQ1. What matters to parents of children who are enterally fed in their everyday practices?

3.1.1 | Theme 1: Maintaining participation in everyday activities

Parents in this study wanted a 'normal' life, which meant doing the things they would do if the child was not enterally fed. For parents of

TABLE 1 Main themes in relation to research questions

Research question	Main analytical themes
RQ1. What matters to parents of children who are enterally fed in their everyday practices?	<ol style="list-style-type: none"> Maintaining participation in everyday activities Responses to the use of tubes for feeding Doing what feels right for the child
RQ2. How do parents resolve challenges associated with enteral feeding in everyday life?	<ol style="list-style-type: none"> Memory aids and readiness tools Metaphors and narratives Repurposed everyday objects Personalized routines and materialities

children with NG tubes, a fear of tube dislodgement hindered this. For those who could not reinsert the tube themselves, a hospital visit was required:

I was constantly watching him, worried that he's going to pull out the tube and then we have got to go back to hospital.

Activities with other children posed a risk of tube dislodgement:

He did not have the opportunity to mingle with other kids because you are worried, they are going to pull it out. That's what they do, the first thing they do is go, "What's this?" and they lift it, and you are like: "No!"

Focusing on what mattered to parents revealed a contradiction. Parents wanted to maintain their child's participation in everyday activities, but they also wanted to avoid tube dislodgement, hospital visits and the associated consequences for other family members:

You're putting gloves on his hands but hang on! He wants to touch things. Little things like that, you are delaying his development ... you are so focused on that tube and worried he's going to pull it out. You do not want to put him through the stress of taking him to hospital, but long-term, you are delaying him.

If both parents are focussing on that little sick kid, then the other one is left out. That's when they start to get jealous and play up.

3.1.2 | Theme 2: Responses to the use of tubes for feeding

Parents described instances when members of the public made inappropriate comments:

Everybody stares. When you walk with the pram, somebody runs back and says, "What's wrong with your child?" I've had that.

The expectation of unpleasant encounters became a barrier to going out as parents felt they were targets of stigmatization.

Once parents realized enteral feeding would not be a quick fix, what mattered changed, from getting through a difficult but short period, to thriving despite the tube:

Early on you think this is temporary, done in a few weeks' time. Then nine months later, you are still there, so I need to work out and say, "What are we going to plan for the long term?"

This signals the importance of tube exit planning and other strategies that clarify the expected duration of tube feeding and the uncertainties that might surround this (Lively, McAllister, & Doeltgen, 2019; Syrmis et al., 2019).

3.1.3 | Theme 3: Doing what feels right for the child

The third theme concerned the importance of parents doing what they felt was right for their child. This was frequently discussed in relation to the tape used to keep an NG in place. Parents wanted to minimize the effect on the child's skin and were motivated to retain the same tape as long as possible. Each time tape was replaced risked tube dislodgement – an unpleasant experience for the child:

You want the tape to stay there at least a couple of days. It's so stressful for the baby when you are trying to rip the tape off, you are hoping they are not pulling the tube out at the same time.

Parents recognized the need for healthcare professionals to give instructions or make recommendations. However, they often found these did not fit well in their own routines and judgements. While it mattered to respect clinical opinion, it also mattered to recognize when things were not working and try something else:

I've met with the [clinical] team, and it's not working. You're going crazy. Then you think, "Let me try this" and it works. My routine, when I offer the feed – it's made a difference.

3.2 | RQ2. How do parents resolve challenges associated with enteral feeding in everyday life?

This question was addressed by identifying the mediating tools parents used to overcome daily challenges. These clustered in four types, as listed in Table 1. Each is now considered in turn.

3.2.1 | Theme 4: Memory aids and readiness tools

Memory aids and readiness tools were used to overcome barriers to getting out of the house. Enteral feeding requires considerable additional equipment to be available.

I had a bad experience, I went out and did not have the pH stick, so I had to drive back.

Parents overcame this by placing checklist inside the front door, including variations for specific activities like swimming. Others prepacked items that meant they could leave at short notice. Some

had back-up supplies in handbags or in the family car. These tools helped to avoid being caught out with something crucial missing:

I had my box of supplies, my tapes, my everything.
That became his box and we just replenished as we
used it.

3.2.2 | Theme 5: Metaphors and narratives

The reactions of others to enteral feeding were managed using mediating tools that were more conceptual in nature. Parents used metaphors like a 'special straw' or drew parallels with dependence on reading glasses to normalize the tube to siblings and relatives. Prepared narratives helped parents cope with the others' scrutiny. Having these 'in mind' countered the stigma and the uncomfortable interactions that had been a barrier to going out:

Straight up, now I just say, "It's a feeding tube. That's it!" They think my child is dying. I say, "It's just for food, it's all good".

3.2.3 | Theme 6: Repurposed everyday objects

Another group of mediating tools involved repurposed everyday objects. Household items became feeding tools and enabled participation in other activities. Cupholders were attached to prams to hold tube-feeding equipment in place, making feeding possible while going for a walk. Cheap jewellery bags were used to prevent a tube from hanging down a child's back, and make-up pads were placed over PEGs:

I had this contraption with chopsticks tied with elastic bands to keep the gravity feed up. I worked out how to attach everything to the pram, so it wasn't going to spill.

The repurposing of photographs had an important mediating function. Parents initially avoiding taking photographs of their child with the NG tube showing, but later saw photos with the tube as important and positive:

Because that's him, I want to show him his journey. It's important they know their story.

3.2.4 | Theme 7: Personalized routines and materialities

The final set of mediating tools involved personalized routines and materialities. Parents learned to navigate hospital supply chains, sending nurses to different wards to source the tape they knew was best

for their child's skin. Several learned to use the pictures printed on facial tape as a guide to cut pieces to an effective size. Common to several parents was the emergence of their own knowledge of what worked in terms of volumes and rhythms when feeding their child:

Every baby is different. How to feed, the right mixture so he does not vomit. I do 10 ml, 5 minutes syringe, wait 10 minutes, then another 10 ml.

4 | DISCUSSION: THRIVING DESPITE ENTERAL FEEDING

Enteral feeding is both a helpful necessity and a source of challenge (Rentinck, Ketelaar, Jongmans, & Gorter, 2007). This study casts new light on parents' struggle to balance competing interests (Hewetson & Singh, 2009).

The feeding tube was not simply a barrier to participation. It placed parents in a dilemma, forcing a choice between two opposing things that mattered. Parents were torn between motives oriented toward participation in social activities and contrary motives to avoid negative experiences while out of the house and with others. In cultural-historical theory, conflicting motives are conceptualized as possible drivers of change.

Families took steps towards thriving through tool use that addressed these dilemmas. Particular tools re-directed their attention towards the solution. Tools of remembering and readiness helped avoid the risk of being caught without necessary equipment. The challenge of getting out of the house became one of using checklists, ready-packed bags, repurposed devices.

Metaphors and narratives helped parents negotiate normative expectations of parenting (Brotherton et al., 2007; Craig & Scambler, 2006). They made the prospect of encounters with the public less daunting. Parents became experts in normalising the tube in the eyes of others, weakening the hold that others' judgements had on their everyday life, taking control back instead of feeling subject to the reactions of others (Murphy et al., 2007). This is evidence of the reverse action effect of mediation (Hopwood, 2015; Vygotsky & Luria, 1994).

Other examples of reverse action were evident. Parents' tool use changed their relationship with the idea of enteral feeding. Photographs displaying the tube helped change enteral feeding from something to hide and resist to something that was acknowledged and even celebrated as part of a child's story. Using photographs as tools in this way had reverse action, changing parents' emotional relationship with enteral feeding.

What mattered to parents evolved, and their changing tool use both reflected these changes and drove them forward. As mediating tools helped parents with the logistics of participating in social activities, the reactions of others became important, and new tools were needed. Parents' new understandings and possibilities for action – their learning – developed together as they engaged in practices, recognizing and meeting the demands that doing so presented.

5 | CONCLUSION

Little is known about the knowledge parents develop as they learn and adapt to enteral feeding.

Key to understanding this is recognizing that what matters to parents can present conflicts and the significance of tool use in resolving these dilemmas. This elaborates on unspoken aspects of caring (Ramchandani, 2007), offering new insights into the concrete ways in which parents adapt to and create a 'new normal' (Earle, Clarke, Eiser, & Sheppard, 2007).

The study sample means findings are indicative rather than generalizable. Nonetheless, the theoretical approach identified patterns of tool use underpinning diverse concrete practices. These can enable those working with families of children who are enterally fed to help overcome barriers to aspects of everyday life that matter.

Specifically, this research suggests that professionals supporting parents of children who are enterally fed can make a significant and positive difference by helping them anticipate the kinds of dilemmas they may face, and by sharing some concrete strategies they might use in overcoming them. Acknowledging dilemmas of the kind highlighted in Themes 1 to 3 (everyday participation, responses to the tube, and doing what feels right) could help to legitimize parents' concerns when they arise, and help parents feel less overwhelmed. In discussing ways to overcome dilemmas and shift towards thriving, this study's findings offer particular examples that might be shared. Furthermore, the principles underpinning these (tool use focused on memory and readiness, metaphors and narratives to explain enteral feeding to others, repurposing everyday objects, and personalizing routines) could be considered to explore adaptations and test out variations and alternatives attuned to particular family circumstances. Discussions with parents based on these principles could highlight ways to feel ready and prepared for going out (Theme 4), ways to explain the tube in constructive and de-stigmatizing ways (Theme 5), find solutions in everyday objects (Theme 6) and customize habits and objects to suit their specific needs (Theme 7).

The study also makes clear the additional support and connection parents may need when caring for a child who is enterally fed. Dedicated support groups for families in such circumstances exist sporadically but are not evenly available or widely known to clinicians. The 'hot' period immediately following discharge from hospital is a time when availability of advice or support 24/7 is particularly valuable and could be offered through telehealth. Given the duration of tube feeding was so important to parents in this study, it is also suggested that tube weaning or tube exit planning should be incorporated into care, support and education for parents as early as possible, preferably around the time of tube initiation.

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CONFLICT OF INTEREST

The authors confirm no conflict of interest applies.

DATA AVAILABILITY STATEMENT

Due to confidentiality and ethics requirements, data associated with this cannot be accessed.

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ETHICS STATEMENT

This research was approved by the Sydney Children's Hospital Network Research Ethics Office, HREC Reference LNR/17/SCHN/340. It was also ratified by the University of Technology Sydney Human Research Ethics Committee, ID ETH17-1882. All patients, service users, participants, including as parents and legal guardians, have given written informed consent for the inclusion of material pertaining to them. Details have been fully anonymized to prevent identification of specific individuals.

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