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# Understanding parent experiences of end-of-life care for children: a systematic review and qualitative evidence synthesis

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Keywords: End-of-life care; Palliative care; Child; Parents; Qualitative research; Systematic review

#### **Abstract**

Background: An estimated 21 million children worldwide would benefit from palliative care input and nearly 8 million die each year. For parents of these children this is an intensely emotional and painful time through which they will need support. There is a lack of synthesised research about how parents experience the care delivered to their child at the end of life.

Aim: To systematically identify and synthesise qualitative research on parents' experiences of endof-life care of their child.

Design: A qualitative evidence synthesis was conducted. The review protocol was registered in PROSPERO (CRD42021242946).

Data sources: MEDLINE, EMBASE, CINAHL, PsycINFO and Web of Science databases were searched for qualitative studies published post-2000 to April 2020. Studies were appraised for methodological quality and data richness. Confidence in findings was assessed by GRADE-CERQual.

Results: 95 studies met the eligibility criteria. A purposive sample of 25 studies was taken, of good-quality papers with rich data describing the experience of over 470 parents. There were two overarching themes: parents of children receiving end-of-life care experienced a profound need to fulfil the parental role; and care of the parent. Subthemes included establishing their role, maintaining identity, ultimate responsibility, reconstructing the parental role, and continuing parenting after death.

Conclusions: Services delivering end-of-life care for children need to recognise the importance for parents of being able to fulfil their parental role and consider how they enable this. What the parental role consists of, and how it's expressed, differs for individuals. Guidance should acknowledge the need to enable parents to parent at their child's end of life.

#### What is already known about the topic?

- The availability and access to end-of-life care for children differs across countries, and the role of specialist paediatric palliative care services and hospices varies considerably internationally.
- Whilst it is recognised that parents need support, little is known about how parents experience care delivered to their child at the end of their lives, or what type of support they need to do this.
- There is no recent international review of qualitative studies of parents' experiences of end-of-life care for children across settings.

# What this paper adds?

- Parents of children receiving end-of-life care experienced a profound and continuing need to fulfil the parental role, and what this role consisted of, and how it was expressed, differed for individual parents.
- In order to enact their preferred roles, parents need direct care in terms of physical and emotional support from healthcare professionals.
- Parents not able to fulfil their expectation of the parental role can feel excluded, this will have an impact on both short and long-term outcomes.

#### Implications for practice, theory, or policy

- End-of-life care provision for children needs to include individually negotiated and tailored practical and emotional support for parents to establish and fulfil their parental role through death and beyond.
- Policy and guidance should acknowledge the importance of parents being able to parent their child at end-of-life.
- There is a paucity of research that considers parental experiences of end-of-life in different settings, and a lack of understanding of the impact of different personal and family circumstances on parents' ability to fulfil their preferred role.

## **Background**

It is estimated that nearly 21 million children worldwide would benefit from palliative care input<sup>1</sup> and nearly 8 million babies and children die each year.<sup>2</sup> The availability and access to end-of-life care for these children differs across countries, and while provision in many places is advancing, the way care is organised is often still inconsistent and incoherent.<sup>3-5</sup>

Despite differences in delivery models across cultures and countries, the need to support parents through this intensely painful and emotionally demanding experience, is recognised and should be a common key component of care whatever the setting.<sup>6</sup> In addition to their own distress, parents often bear the heavy responsibility for the personal and nursing care of their child, and are involved in making extremely difficult decisions such as the withholding or withdrawal of treatments.<sup>7</sup>

The quality of care that is provided around the time of a child's death will shape parents' experiences, not just as they attempt to navigate and cope with such a devastating event, but also during the years afterwards. This review focuses on parental experiences of end-of-life care, which is usually defined as support for people who are in the last years or months of their life. Together for Short Lives, an internationally renowned children's palliative care charity, describes the end-of-life stage for children as beginning when a judgement is made that death is imminent, although this can be difficult to make. End-of-life care is one component of paediatric palliative care which is provided from the point of diagnosis and throughout a child's illness.

There is an acknowledged need to prioritise more research on paediatric end-of-life care, <sup>10</sup> and there have been a number of primary qualitative studies published in recent years that report on parents' experiences. However, there is no up-to-date review that draws the evidence across countries and settings together. Synthesising the available qualitative research can provide new insight from primary studies and is particularly important in palliative care, as it maximises the value from studies that have focused on sensitive subjects, <sup>11</sup> and makes sense of the evidence in order to deepen understanding of families' experiences. <sup>12</sup>

This review therefore aims to systematically identify and conduct a qualitative evidence synthesis of the existing research to understand parents' experiences of end-of-life care of their child.

#### **Methods**

A systematic review and qualitative evidence synthesis, following Thomas and Harden's (2008) methodology for thematic synthesis, <sup>13</sup> was conducted and reported according to the Enhancing Transparency in Reporting the Synthesis of Qualitative Research (ENTREQ) guidelines. <sup>14</sup> The review protocol was registered in PROSPERO (CRD42021242946).

#### Search strategy

A comprehensive search of 5 electronic databases was conducted in April 2020. Databases searched were MEDLINE (1946 to current), EMBASE (1974 to current), CINAHL Complete, PsycINFO, and Web of Science: Social Science Citation Index. A search strategy was developed with a health sciences information specialist and used MeSH terms and synonyms for three search concepts: 'child', 'end-of-life' and 'qualitative'. Results were limited to English language reports from 2000 onwards. See Supplementary Table 1 for complete MEDLINE search strategy. Reference lists of identified relevant reviews were also manually searched.

#### Eligibility criteria

Two authors independently screened each article using Covidence.<sup>15</sup> Articles were reviewed against the inclusion/exclusion criteria over two stages: title and abstracts were screened and then the full text was retrieved. Conflicts were resolved though discussion and referral to other authors if required. At full text screening stage, reasons for exclusion were recorded.

Studies were included if they were peer reviewed, qualitative, and examined parents' experiences of care during the end of life phase of their child (Table 1). To keep the search broad, there were no limits on the child's condition or diagnosis, or the care setting within which end-of-life care was provided. Studies were only included if there was focus on care provided at the child's end-of-life specifically rather than palliative care more generally. Only studies conducted in Organisation for Economic Co-operation and Development (OECD) countries were included as it was believed that parents' experiences would be very different to those in low or middle-income countries. Qualitative studies with mixed samples of parents and healthcare professionals were only included if parent data had been analysed and presented separately.

Table 1. Full inclusion and exclusion criteria

	Included	Excluded
Study type	<ul> <li>Qualitative studies</li> <li>Mixed methods studies with separate qualitative analysis</li> <li>Peer reviewed</li> </ul>	<ul> <li>Quantitative studies</li> <li>Quantitative analysis of qualitative data</li> <li>Reviews</li> <li>Evaluations of specific tools</li> <li>Case studies</li> <li>Thesis &amp; book chapters</li> </ul>
Population	<ul> <li>Parents of children who are receiving or have received end of life care</li> <li>Parents: mothers, fathers, stepparents, adoptive parents, long-term foster carers, legal guardians</li> <li>Mixed samples</li> <li>including other relatives if the vast majority (over 70%) of sample are parents</li> <li>including Healthcare Professionals only if parents' experiences are analysed and presented separately</li> </ul>	<ul> <li>Other relatives or care givers</li> <li>Health care professionals</li> </ul>
Focus	<ul> <li>Parents' experiences of end-of-life care</li> <li>Parents' experience of end-of-life decision making</li> </ul>	<ul> <li>Only covering parents' experiences of palliative care before child had reached the end of life</li> <li>Only focused on parents' experiences in the period after a child's death</li> </ul>
Setting	<ul> <li>All settings and services</li> <li>OECD countries: Austria, Australia, Belgium, Canada, Chile, Colombia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea, Latvia, Lithuania, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey, the United Kingdom and the United States</li> </ul>	Non-OECD countries
Language	English Language	Non-English language
Date range	• 1 Jan 2000 – date of search	

## Quality appraisal

The Critical Appraisal Skills Programme (CASP) tool was used to understand the strengths and limitations of the methodology of all included studies. <sup>16</sup> The CASP tool has endorsement from the Cochrane Qualitative and Implementation Methods Group and is the most commonly used tool for quality appraisal in health related evidence synthesis. <sup>17</sup> The assessment was conducted on all identified studies by one author with a second author independently checking the ratings. While there was no a priori cut-off threshold for inclusion, quality was considered a factor in the sampling framework.

#### Purposive sampling strategy

It was anticipated a large number of studies would be identified, and to avoid being overwhelmed by data and undermining the ability to conduct a thorough analysis, a decision was made to take a purposive sample.<sup>18</sup> Informed by Ames et al. (2019) a two stage sampling framework was used to sample methodologically robust studies, with rich data that was relevant to the synthesis and that captured parents' experiences across a broad range of settings, countries and child diagnoses. <sup>18</sup>

Stage 1: Each report was assessed for data richness and relevance to the review objectives, using a scale adapted by France et al. (2022). <sup>19</sup> The CASP assessment was used to measure methodological quality. Studies were selected that were post-2010 (to give most contemporary practice), that had minor or no methodological concerns, and were assessed to have thick or very thick qualitative findings that related to the synthesis objectives.

Stage 2: Studies were mapped by country, setting of care, and by diagnosis of the child. If if any of these phenomena of interest were not well represented in the sample from stage 1 then additional studies were added. A decision was made to continue to focus on quality, richness and relevance and so older papers that filled the gaps were added.

#### Data extraction and synthesis

The characteristics of all included studies were extracted, including title, authors, year of publication, year of data collection, country, care setting, sample population, study design, methods of data collection and approach for analysis.

The articles for the sampled reports were uploaded to Nvivo.<sup>20</sup> The results sections, author interpretations and participant quotes were data for synthesis. Several reported findings from the same study, these were treated as one study for study characteristics, but data was extracted from each.

Thomas and Harden's (2008) three stage method of thematic synthesis was followed.<sup>13</sup> The first step was line-by-line coding of the data. These codes were then organised, refined, and similarities identified from which descriptive themes were developed. Analytical themes and sub-themes were then generated through discussion and reflection within the team.

#### Assessing confidence in review findings

To assess the confidence in review findings, GRADE-CERQual was applied, this is a systematic and transparent framework for assessing confidence in individual review findings, based on consideration of four components: (1) methodological limitations, (2) coherence, (3) adequacy of data, and (4) relevance.<sup>21</sup>

#### Reflexivity

In keeping with quality standards for rigour in qualitative research, researcher views and opinions on parents' experiences of end-of-life care of children were considered as possible influences on the decisions made in the design and conduct of this review. The review team had diverse professional backgrounds with a range of personal and research experiences and expertise (Clinical Academic; Clinical academic doctor and children's nurse, researcher; two applied health services researchers

and a social scientist; qualitative researcher) that provided a good platform for engaging and understanding the complexities and nuances of qualitative research of parents' experiences.

#### Patient and Public Involvement

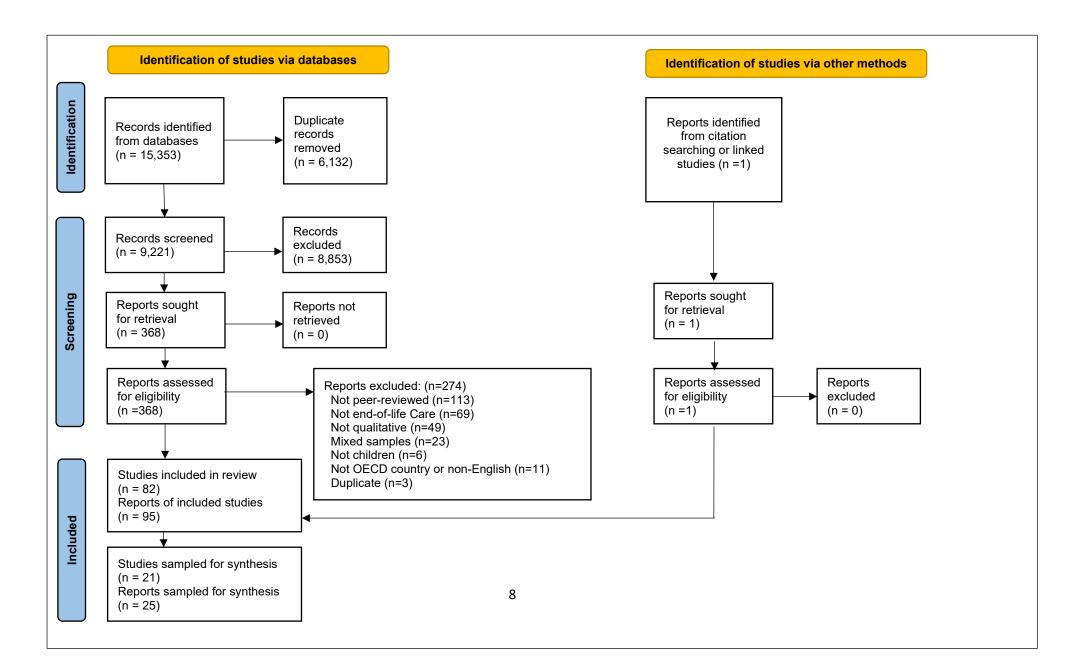
The findings for this review were presented to the Martin House Research Centre Family Advisory Board (a patient and public involvement group). First, parents helped shape how the review was scoped, re-enforcing that parents' experiences needed to be separated out from those of healthcare professionals. Second, parents also reflected on how the analysis was presented, ensuring that both positive and negative experiences were represented.

# **Findings**

The study selection process is presented in Figure 1. PRISMA Flowchart. After de-duplication 9,221 titles and abstracts were screened and 368 full text reports were assessed for eligibility, of which 94 reports met our inclusion criteria. The references of fifteen reviews identified in the databases were also manually searched but no further studies were added.<sup>22-35</sup> One further report was identified as a linked study giving a total of 95 included reports from 82 studies.

Applying the sampling framework to 95 eligible reports, resulted in 19 reports included from the first stage that were found to be of good quality, post-2010, with rich and relevant data. The second stage mapping showed a lack of studies from the UK, and few studies focused on care delivered in the home or a hospice. There was a good range of child diagnosis covered. 6 further reports were added to fill those gaps, giving a sample of 25 reports, reporting on 21 studies (Table 2). Supplementary Table 2 gives details of the 70 reports that met the search criteria but were not included in the synthesis.

Figure 1. Prisma Flowchart



#### Study characteristics

19 out of the 21 studies used interviews, with individual parents or couples, to collect data about parents' experiences, with the remaining 2 using focus groups. A range of methods had been used for the data analysis: seven studies used thematic analysis, five used content analysis, three used comparative analysis, two used grounded theory, two used hermeneutic phenomenology, one used interpretive phenomenological analysis and one used thematic content analysis.

The studies were conducted across eight countries: seven in the United States, four in the UK, four in Australia, two in Canada and one from each of Greece, Italy, Netherlands and Switzerland. The studies reported parents' experiences of end-of-life care for their child delivered across a range of settings and services: seven studies covered a mix of settings, four were based in paediatric intensive care units, four in neonatal intensive care units, two in other hospital settings, two focused on hospice and palliative care services, and one covered parents' experiences of care delivered in a child's home. One study did not specify the setting.

The diagnosis of the children receiving end-of-life care varied, with the majority (sixteen) of the studies including children with a range of conditions of which four studies were conducted in neonatal units. Five studies reported the experiences of parents of children with cancer. The children aged from pre-term babies to 24 years (only one study had children over 18). All the studies were carried out retrospectively after the children had died.

In total the studies collected data from 471 bereaved parents of which 306 were mothers, 148 were fathers and 17 were referred to as parents. Only one study included other participants – an aunt and two grandmothers.<sup>37</sup>

Supplementary Table 3 gives details of the CASP appraisal of the sample reports.

Table 2: Sample reports characteristics

			Child chara	cteristics					Summary
Author					Parents		Analysis		methodological
Year	Country	Setting	Condition	Age	participants	Study Design	methodology	Aim	assessment
							Hermeneutic		
		Delivery room		Range:			ally oriented	Illustrate the perspectives of	
		Neonatal		Gestational	30 Parents		qualitative	parents whose extremely	
Abraham		intensive care	All pre-	age: 22-27	- 12 Mothers	Symbolic	content	premature babies died within	No or very minor
2017	Switzerland	unit	term	wks.	- 8 Fathers	interactionism	analysis	a few hours or days of birth.	concerns
								To examine parent	
								perceptions of their infants'	
								care at EOL, 3 months to 5	
		Neonatal			45 Parents			years after their infant's	
Baughcum	United	intensive care	Mixed	Mean:	- 29 Mothers		Content	death in the neonatal	
2017	States	unit	conditions	40 days	- 16 Fathers	Mixed methods	analysis	intensive care unit	Minor concerns
		Paediatric						To describe parents'	
		intensive care						perspectives of what health	
		unit						care providers did that	
		Neonatal			63 Parents	Longitudinal		helped or did not help	
Brooten	United	intensive care	Mixed	Mean:	- 44 Mothers	mixed methods	Thematic	around the time of their	
2013	States	unit	conditions	43.4 mths	- 19 Fathers	survey	approach	infant/child's death	Minor concerns
								To explore bereaved parents'	
								perspectives of parent and	
								staff roles in the paediatric	
								intensive care unit when	
								their child was dying, and	
		Paediatric		Range:	26 Parents	Constructivist	Constant	their relationships with	
Butler		intensive care	Mixed	<1 yr>13	- 18 Mothers	grounded	comparative	healthcare staff during this	No or very minor
2018 a	Australia	unit	conditions	yrs.	- 8 Fathers	theory	analysis	time.	concerns

			Child chara	cteristics	_				Summary
Author					Parents		Analysis		methodological
Year	Country	Setting	Condition	Age	participants	Study Design	methodology	Aim	assessment
								To explore bereaved parents'	
								judgements of healthcare	
								providers, as part of a larger	
								study examining their	
		Paediatric		Range:	26 Parents	Constructivist	Constant	perceptions of the death of a	
Butler		intensive care	Mixed	<1 yr>13	- 18 Mothers	grounded	comparative	child in the paediatric	No or very minor
2018 b	Australia	unit	conditions	yrs.	- 8 Fathers	theory	analysis	intensive care unit.	concerns
							Content	To explore parent	
							analysis	experiences related to their	
				Mean:			methods	infant's neonatal intensive	
		Neonatal		109 days	10 Parents	Descriptive	within a	care unit hospitalization,	
Currie	United	intensive care	All	Range:	- 7 Mothers	qualitative	naturalistic	end-of-life care, and	No or very minor
2016	States	unit	neonatal	1-223 days	- 3 Fathers	study	paradigm	palliative care consultation.	concerns
			Mixed						
			- life	Range:					
Davies	United		limiting	3mths-		Hermeneutic	Thematic	To explore the loss of a child	No or very minor
2005	Kingdom	Mixed	conditions	14 yrs.	10 Mothers	phenomenology	approach (	from parents' perspectives	concerns
								To explore in what sense	
								physical aspects, influence	
								the parent-child relationship	
		Paediatric		Range:	36 Parents			in end-of-life care in the	
Falkenburg		intensive care	Mixed	2wks-	- 19 Mothers	Qualitative	Thematic	paediatric intensive care	No or very minor
2016	Netherlands	unit	conditions	14 yrs.	- 17 Fathers	interview study	analysis	unit.	concerns
								To learn what interactions of	
								grieving parents with medical	
								and nursing staff remain	
								meaningful on the long term	
								when facing the existential	
		Paediatric		Range:	36 Parents			distress of their child's death	
Falkenburg		intensive care	Mixed	2wks	- 19 Mothers	Qualitative	Thematic	in the paediatric intensive	No or very minor
2018	Netherlands	unit	conditions	-14 yrs.	- 17 Fathers	interview study	analysis	care unit	concerns

			Child chara	cteristics					Summary
Author					Parents		Analysis		methodological
Year	Country	Setting	Condition	Age	participants	Study Design	methodology	Aim	assessment
								To explore retrospectively	
								the decisions made by	
							Interpretive	parents regarding their	
						Interpretive	phenomenol	choice of place of care at	
Hannan	United	Hospital		Range:		Phenomenologi	ogical	time of death for their child	
2005	Kingdom	Home	Cancer	1-19 yrs.	5 families	cal Analysis	analysis	with advanced cancer.	Minor concerns
								To better understand what	
								bereaved parents themselves	
								identified as their child's and	
								their family's major needs	
								when facing life-threatening	
								illness, particularly at the end	
				Range:	33 Parents	Qualitative		of life, and how they thought	
Heller	United		Mixed	_	- 23 Mothers	interview	Thematic	healthcare providers might	No or very minor
2005	States	Hospital	conditions	yrs.	-10 Fathers	study	analysis	best address those needs	concerns
		•		,		•	•	To examine parents'	
								perspectives of: (1) the	
								timing and method used by	
								HCPs to introduce EOL	
								options for their child; and	
								(2) what their preference	
Hendricks-					29 Parents	Retrospective,	Semantic	would have been regarding	
Ferguson	United	Hospice	Mixed	Not	- 19 Mothers	descriptive	content	time and method of	
2007	States	programme		reported	- 9 Fathers	study.	analysis	introduction of EOL option	Minor concerns
		, ,				,	,	To explore parental attitudes	
				Range:		Hermeneuticall		and values in the end-of-life	
		Neonatal		Gestational	20 Parents	y oriented		decision-making process of	
Hendriks		intensive care	Preterm	age:	- 12 Mothers	qualitative	Content	extremely preterm infants	No or very minor
2017	Switzerland	unit	(<28wks)	22-28 wks.	- 8 Fathers	research	analysis	(gestational age < 28 weeks).	•
			,				,	To explore parents'	
		Paediatric		Range:	12 Parents		Hermeneutic	experience of EOL care in a	
Lamiani			Mixed	2 mths-13	- 7 Mothers			Paediatric Intensive Care	No or very minor
2013	Italy	unit	Conditions		- 5 Fathers	Not reported	ogy method		concerns
.013	icary	unit	Conditions	yıJ.	J I dillela	Not reported	osy method	Offic in italy.	COTICCITIS

			Child chara	cteristics					Summary
Author					Parents		Analysis		methodological
Year	Country	Setting	Condition	Age	participants	Study Design	methodology	Aim	assessment
			Children						
			with	Range:	13 Parents		Inductive	To explore the experiences	
Lord			medical	7mths-12	-12 Mothers	Qualitative	thematic	of bereaved family caregivers	No or very minor
2020	Canada	Mixed	complexity	years	- 1 Father	study	analysis	with ACP for CMC	concerns
								To provide an in-depth	
								insight into the experience	
								and perceptions of bereaved	
								parents who have	
								experienced end of life care	
								decision-making for children	
								with life-limiting or life-	
		Paediatric			17 Parents			threatening conditions in the	
Mitchell	United	intensive care	Mixed	Range:	-11 Mothers	Qualitative	Thematic	paediatric intensive care	No or very minor
2019	Kingdom	unit	conditions	7-23 mths	- 6 Fathers	interview study	analysis	unit.	concerns
								To obtain feedback from	
								parents of children who died	
								from cancer about their	
								understanding of palliative	
								care, their experiences of	
								palliative and supportive care	
					24 Parents			received during their child's	
Monterosso		Palliative care		Range:	- 16 Mothers	Qualitative	Thematic	illness, and their palliative	
2008	Australia	service	Cancer	2-17 yrs.	- 8 Fathers	study	analysis	and supportive care needs.	Minor concerns
								To (1) develop a theoretical	
								framework grounded in	
								empirical data to explain	
								how parents in Greece	
								decide on the location of	
								their child's end-of-life care	
				Range:	36 Parents			and death, and (2) to explore	
Papadatou		Home	Mixed	2.5 mths-16	- 20 Mothers	Grounded	Grounded	how choices and service	No or very minor
2021	Greece	Hospital	conditions	yrs.	- 16 Fathers	theory	theory	delivery affect bereavement	concerns

			Child chara	cteristics	_				Summary
Author					Parents		Analysis		methodological
Year	Country	Setting	Condition	Age	participants	Study Design	methodology	Aim	assessment
								(1) to explore the	
								experiences of bereaved	
								parents when a decision had	
								been made to FANH during	
								EOL care for their child and	
			Genetic or					(2) to describe the perceived	
i			suspected	Range:	11 Parents		Interpretive	quality of death in these	
Rapoport			genetic	1 mth-15	- 6 Mothers	Qualitative	description	children, as reported by their	No or very minor
2013	Canada	Hospital	conditions	yrs.	- 5 Fathers	study	methodology	parents.	concerns
1								To identify what is most	
I								helpful, what is least helpful,	
					12 Parents	Qualitative	Constant	and what is lacking in EOL	
Sedig	United			Range:	- 11 Mothers	focus group	comparative	care from the perspective of	
2020	States	Hospital	Cancer	1-24 yrs.	- 1 Father	study	analysis	bereaved parents.	Minor concerns
								To explore the	
								communication between	
								hospital staff members and	
							Semantic	patients and families at the	
Snaman	United			Range:			content	time of patients' health	No or very minor
2016	States	Hospital	Cancer	1.5-14 yrs.	12 Parents	Not reported	analysis	decline near the end of life	concerns
								To explore the views and	
								experiences of bereaved	
				Range:	25 Parents	Exploratory		parents in end-of-life	
Sullivan			Mixed	3 mths-12	- 19 Mothers	descriptive	Thematic	decision-making for their	No or very minor
2018	Australia	Not reported	conditions	yrs.	- 5 Father	study	analysis	child.	concerns
I								To explore the significance of	
								memory-making activities for	
								parents experiencing the	
								death of a neonate, and the	
					18 Parents	Grounded	Grounded	impact that these activities	
Thornton				Range:	- 13 Mothers	theory	theory	have on parents' experience	No or very minor
2020	Australia	Neonatal unit	Neonatal	2h-13 wks.	- 5 Fathers	approach	analysis	of bereavement	concerns

			Child chara	cteristics					Summary
Author					Parents		Analysis		methodological
Year	Country	Setting	Condition	Age	participants	Study Design	methodology	Aim	assessment
Thornton				Range:	18 Parents - 13 Mothers	Grounded theory	Grounded theory	To explore the significance of memory-making activities for parents experiencing the death of a neonate, and the impact that these activities have on parents' experience	No or very minor
2021	Australia	Neonatal unit	Neonatal	2h-13 wks.	- 5 Fathers	approach	analysis	of bereavement	concerns
Vickers 2000	United	Home	Cancer	Range: 2 to 14 yrs.	16 Parents - 10 Mothers - 6 Fathers	Exploratory descriptive design		To explore the parents' perspective and experiences when caring for a dying child at home.	No or very minor

#### Overview of themes

The synthesis of the sampled reports identified two overarching themes: the parents of children receiving end-of-life care experienced a profound need to fulfil the parental role; and care of the parent.

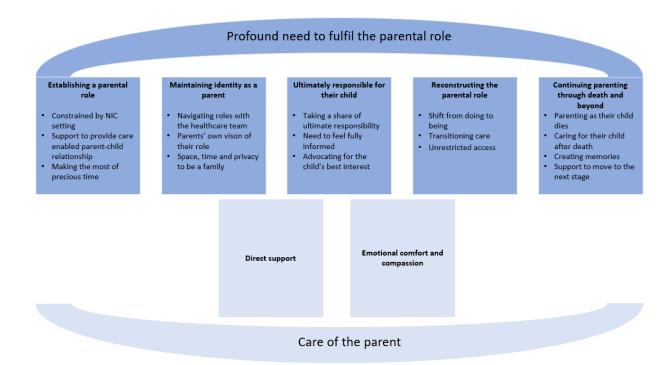


Figure 2. Overview of themes

# Profound need to fulfil the parental role

Parents experienced a profound need to fulfil the parental role and to be able to 'be there' for their child at the end of their life. What the parental role consisted of, and how it was enabled or constrained by the care being delivered, differed for individual parents. However, there were common elements including: spending as much time as possible with their child; actively providing physical and emotional care; and representing and advocating for their child's best interests.

All twenty-five reports contributed data to this overarching theme. Five themes, with fifteen subthemes, emerged regarding how parents fulfilled their role (table 3)

Table 3. Profound need to fulfil the parental role: summary of sub-themes

- Parents with babies in neonatal intensive care units needed to establish themselves as parents.
- Those with older children in intensive care and other hospital settings needed to navigate maintaining their 'normal' parental role while their child's health needs were also met.
- For most parents there was a fundamental need to feel fully informed and to represent the child and their best interests, and ultimately be **responsible** for their child.
- Some parents **reconstructed** their role when they realised their child had reached the end of their life, moving from actively focusing on medical treatments and their child's survival

- to 'being there' and emotionally supporting their child as they died. Taking their child home, or just the removal of medical equipment enabled parents to **reclaim** their child.
- Finally, it was important that parents were able to **continue** to enact their role after a child had died.

## Establishing a parental role

Seven study reports contributed to this theme. Three sub-themes were found: constrained by the neonatal intensive care unit setting, support to provide care enabled the enactment of parent-child relationship and making the most of precious time.

#### Constrained by the neonatal intensive care setting

Parents with babies receiving neonatal intensive care needed to **establish** themselves as parents. The surroundings of a neonatal intensive care unit presented unique challenges<sup>38</sup>, making it difficult to step into their role, in a natural and instinctive way.<sup>38-42</sup> Some parents found it hard to make an immediate bond with their child.<sup>40, 42, 43</sup>

But then you are actually labelled as the parent. Sure, you have a very important role, but it doesn't feel like that. Because everybody is saying: You are the mother. But still...And then you start doubting yourself, like is something wrong with me then?...For in the beginning you feel like, let's say, I am a perverted mother because I don't have that feeling, which I should have. And everybody: you are the mother! (N14)<sup>42</sup>

Several factors constrained parents, the first often being distress of physical separation from their child, as their baby was taken immediately away at birth to the intensive care unit. This could be further hampered for some mothers if they were recovering from a difficult birth or if their child was in a different hospital, with fathers acting as go-betweens or messengers.<sup>41, 43</sup>

I only got up there once. And I couldn't actually hold them while they were...because they were so small. And I couldn't actually touch them, because I couldn't actually reach my hand up to get in, because I couldn't get out of the wheelchair.  $(P1)^{41}$ 

I just gave birth to him, they'd just sewed me up, I got five minutes to see him, and he got taken to a different hospital and I was in a ward filled with mothers and babies crying. So, when they are in NICU, you are not with them. But you sort of feel....What just happened? You feel really empty.  $(P10)^{41}$ 

If a baby was very unstable medically, sometimes they could not be held, or were sensitive to contact. For parents, this was stressful and could lead to hesitation or a lack of confidence. One study reported that fathers in particular, felt some discomfort and fear handling such fragile infants. So

"In a certain way, he never really was our child, because you haven't been able to do normal things with him. You couldn't hold him; you couldn't tend to him. We had started with baby massage. Only once. Then he got worse again and didn't like the touch anymore." (Father)<sup>40</sup>

I didn't go and mess around with him too much...So that was hard for me...I'd look at him mostly. I didn't feel comfortable enough to touch him for fear of shaking something loose. So, I'd talk to him, and I'd look at him and let him know I was there. I felt that was the most I could do." (Father, 1 year after death) <sup>39</sup>

## Support to provide care enabled the enactment of parent-child relationship

Parents were clear physical closeness, touching, being able to provide warmth and support to their child were basic parental expressions and were absolutely vital to establish a bond with their child and create positive memories. <sup>40, 41, 43</sup> "When I held her to my chest for the first time, my body started to react! Then I thought: yes this is really my baby." <sup>40</sup> Those parents who were supported by staff to actively participate in 'normal' or 'typical' caregiving activities for their child, such as feeding,

bathing, or changing, found this helped them establish their role, make connections, and begin to feel like parents. 38, 39, 41, 42

I'm really glad that they consistently put me under pressure to take him (Mother)<sup>43</sup>

We bathed him, it was just a sponge, but she was really good. She allowed me...you know, she helped me to do all that, but gave me that mothering. Because when your baby's being looked after by others all the time, you don't get much of that chance.  $(P7)^{41}$ 

I wanted as much as possible. I changed his diaper, I helped give him baths, I fed him when I could. I was the mom. (mother, 3 years after death)<sup>39</sup>

Some parents felt excluded, made to feel like a "babysitter" or "visitor" when they were not able to hold their child and were disappointed if staff did not encourage involvement in their child's care. <sup>39,</sup> 43, 44

I wish we had washed her. I mean I don't know if they made the call not to do that because I was in an ICU. I guess I feel like I missed the chance to mother her. (crying).... I would have liked to have done something like that.(P12) <sup>41</sup>

Being encouraged to bond and interact with their baby through song, reading and talking to their child was highlighted as important.<sup>39, 41, 43</sup>

She could tell that we just didn't know what to do, and she said, "well, why don't you read to him?" and so that then became our thing. And that is a really important memory... $(P15)^{41}$ 

I had a big list and we chatted about everything. That was... saying all those things that you don't get to say later. He adds: For me, making that list of everything that I would like to say to my daughter and would have done... you know, walk her down the aisle, I can't walk her down the aisle, but I can talk to her about it. (P8)<sup>41</sup>

#### Making the most of precious time

For parents of babies who only lived for a short time, it was particularly crucial that as much time was spent with their child as possible. Not only was this time incredibly precious, it enabled them to get to know their baby as a person and create an identity for them. <sup>38, 39, 41, 43</sup>

I got to feel like they were mine, rather than just something that happened... They were real people. And they even had personalities and um... yeah.... They were real. It was very real thing that I did. And yeah, it made them a real part of our lives, and not just this bad thing that happened in hospital one time. (P1)<sup>41</sup>

The five days, which were five regular days for others, were the five days of my daughter's life.  $(Mother)^{43}$ 

#### Maintaining identity as a parent

Twenty-three study reports contributed to this theme. Those parents with children in intensive care and other hospital settings needed to navigate **maintaining** their parental role while their child's health needs were also met. Three sub-themes: navigating roles with the healthcare team, parents' vision of their role, and space and privacy to be a family; also emerged.

#### Navigating roles with the healthcare team

Maintaining their parental role relied on developing a collaborative and trusting relationship with healthcare professionals and then working together as a team. <sup>36, 37, 39, 42, 44-52</sup> Trust between parents and the healthcare team was based on parents' confidence in their capabilities, open communication, staff engaging with the child, and a sense of common purpose. <sup>8, 44, 52, 53</sup> There also needed to be shared understanding of each other's roles and contributions each made towards care of the child, with healthcare professionals providing guidance, support and space for parents to maintain their role. <sup>44</sup>

We all worked together for the common cause, which was my son. (Alice, hospital 3)44

Collaboration was enhanced by continuity in the healthcare team, enabling parents to be consistent in their involvement, as staff understood and trusted parents.<sup>36, 38, 44, 47</sup> Parents valued staff that had been with them throughout the course of a child's illness, <sup>8, 36, 45, 48</sup> and felt anxious about a change of service or the introduction of a new team, such as the palliative care team.<sup>48</sup>

I know it's such a moving world of people changing, but I was grateful for the people that started that process and who were there at the end of the process, because we had developed a relationship. They learned who I was. I learned who they were and you could count on them because my support was from these people here.<sup>36</sup>

So, then you worried about not having dealt with these people before but you've dealt with all these other ones and you're more comfortable and then all of a sudden you're told palliative care and you think whoa, what's palliative care? (Mother)<sup>48</sup>

Parent and professional relationships could be fragile, with trust easily compromised.<sup>47</sup> Tensions particularly arose when parents felt healthcare professionals had different priorities, provided conflicting information or insisted on sticking to protocol/rules. It was also hard when parents did not feel listened too, or their expertise and knowledge of their child and their condition were not recognised.<sup>8, 36, 38, 47, 53</sup>

When we were at home, we used to clean his peritoneal catheter but when we were in the PICU the clinicians would say: "You don't do anything, and please go out of the room. (Father and Mother, INT7)<sup>54</sup>

I feel like they wanted to put their agenda on us and it's just like, 'This family's not getting it. They don't seem to understand their child is going to die.' That's how we got treated. I'm like, 'Honey, this is my child. No one understands more than I do that my child isn't going to survive. Please hear what I'm saying.'

One study reported that some families whose child had previously been in a neonatal intensive care environment were particularly resentful when the collaborative relationships they had formed with staff were not continued in the paediatric intensive care unit and so their expectations for their role were not met.<sup>44</sup>

She commented that in NICU, "they were like, you need to know how to do this, you're his mum, not us", but then "as soon as Lucas went in [to PICU], it was a case of you're not allowed to do that, you're not allowed to do this".  $(Mother)^{44}$ 

#### Parents' own vision of their role

Parents had their own view of what their role should look like, and as with parents of babies in neonatal intensive care, one of the fundamental ways they continued to express their role, was to be involved in caregiving and actively providing comfort to their child. They wanted their role in hospital to 'mirror' their normal parental role<sup>44, 54</sup> and when staff trusted parents' to provide care to their child, this helped them maintain autonomy. <sup>50</sup>

What I missed the most was doing the daily things that moms do. I know that it's not easy to do these things in a PICU but even the possibility of staying there longer and holding his hand was something. (Mother, INT4)  $^{54}$ 

I think [to] maintain the existing relationship, the existing dynamic that we had, was important to me (Isabelle, hospital 1). $^{44}$ 

The age of a child and their medical condition influenced parents desired levels of involvement in providing care for their child. Some parents felt their role was maintained by providing basic non-medical care such as hair brushing and massage, whist others, particularly of chronically ill children, were accustomed to performing more nursing care and so were keen to continue that. For parents of older children, where they had naturally moved away from intimate physical care, caregiving was not always seem as a fundamental part of parenting. 44

I'd already had that sort of break of not caring for her as a full-on carer [caregiver], so it didn't really faze me that I hadn't had that role within PICU. (Mother of a teenager) 44

When a parent was not able to provide care and this role was not facilitated, they reported a loss of control and feeling detached or becoming a 'watcher'. 36, 39, 40, 42, 44, 55 One study described how parents felt like they were on the side-lines and estranged from events, with fathers in particular feeling at a loss and unclear how to act. 42

I wasn't a mum. I wasn't even a parent. It just felt like I was a visitor. (Layla (hospital 4))<sup>44</sup>

I felt like a bystander, watching everything (mother, 2 years after death)<sup>39</sup>

#### Space, time, and privacy to be a family

Parents described a need for a supportive physical environment for themselves and their child that gave them space and privacy,<sup>39, 41, 43, 56</sup> so they could spend as much time as possible together, <sup>38-41, 43, 51, 53, 57, 58</sup> including with siblings if appropriate. This helped parents to feel like a family, 'preserve their family intimacy', thus enabling the parental role. <sup>51, 54</sup> Open and unrestrictive visiting policies encouraged parents to be present, <sup>41, 57</sup> whereas units that had strict visiting hours in place limited access. <sup>38</sup>

The most important thing to me was being able to sit with her and talk to her and sort of experience some time with her. (Mother) $^{48}$ 

That was the nice thing. It wasn't like they were "come on, we've got to go home sometime today" sort of thing. It's like they really showed such a caring nature that I was very impressed by.  $(P11)^{41}$ 

Finding privacy varied across the different care settings. Families described the need to be able to escape the noise, overwhelming, and sometimes 'chaotic' environment of the intensive care units. <sup>36, 38, 47</sup> Private space in local hospitals was often limited, with few places for parents set aside from busy open wards. <sup>56, 57</sup> A curtain did not feel adequate, as while it may offer some visual privacy, it was still noisy. <sup>43, 57</sup> Supportive hospital settings tried hard to ensure that parents were able to remain in close proximity to their child with private rooms or providing large beds that can be shared. <sup>40</sup>

Under these circumstances there should be the opportunity to be by ourselves. We were always interrupted because if you do not have your private space and clinicians have to intervene on a child who is not yours, they make you go out of the PICU. So, you go in and out... If we had our own room, we could always stay with him.(Mother, INT6)<sup>54</sup>

It was important for healthcare professionals to balance between being on hand to offer support and leaving the family in peace.<sup>39, 43</sup> Families found the endless 'parade' of staff disruptive and some felt 'on display'.<sup>39</sup> Sometimes it was as simple as staff asking permission to enter the room or approach a child.<sup>36</sup>

There was also a need to be mindful of privacy when making any transfers or moving patients, particularly right at the end of a child's life, and it was important to realise that this is a difficult journey for parents – essentially walking towards their child's death.

I remember that the walk down the hall was very burdensome. (Father)<sup>43</sup>

The delivery of end-of-life care itself could impose barriers to the family spending time together such as taking a child for medical treatments or tests. Parents found these interruptions frustrating and could become resentful when denied access to their child. <sup>8, 44, 57</sup>

Why are you tipping him up on his bed or bringing this X-ray in, taking me out when I just want to spend time with him? (Zara, Hospital 1)<sup>44</sup>

The night before she died, the nurse kicked me out of the room and told me I was doing more damage to her—because I was holding her and touching her. She said I shouldn't stimulate her and she took her away from me—she took my last night that I had with my daughter away.<sup>8</sup>

## Responsibility for their child

Twenty-one study reports contributed to this theme. Three sub-themes, compelled to take ultimate responsibility, the need to feel fully informed and advocating for their child's best interests, were identified.

#### Taking a share of ultimate responsibility

When making difficult end-of-life care decisions, some parents, while allowing themselves to be guided by clinicians, were compelled to take a share of the ultimate responsibility and felt that this was 'central to their identity as parents'. <sup>39,55</sup>

I did not experience this moment as a freedom but rather as a responsibility of course because this baby cannot decide for herself. We are her parents, and we should make this decision. And we should decide what is best for our baby. Now in retrospect, I regard that as a great act of love. But in those hours, I thought I would die. But you do not die, and you go on and you have to decide. (Mother)<sup>55</sup>

It's the hardest role I've ever had. I did not like having to do it. But I wouldn't trust anyone else with that decision. (Mother, 2 years after death)<sup>39</sup>

#### Need to feel fully informed

Parents wanted healthcare professionals to provide complete, honest and understandable information, while also listening to parents' views and concerns.<sup>8, 36, 39, 40, 48-50, 55</sup> Avoiding jargon, using non-medical terminology and (patiently) repeating explanations helped parents to make sense of the situation.<sup>8, 39, 50, 55</sup> Upfront and direct communication was often key to parents being able to balance the need for hope, with the seriousness of a situation.<sup>36, 38, 48, 50</sup>

They explained very clearly the negative and positive aspects of care. This was very helpful because they were straightforward. In other words, they did not leave us with 'yes, but', 'may be', or 'it could turn out this or that way'.  $(F7)^{49}$ 

I think the best thing is to be really upfront and honest about the medical condition of the child, don't sugar coat anything. (Father, 2 years after death).<sup>39</sup>

Advance care planning and introducing end-of-life options sensitively and at appropriate times was important. Although not all parents agreed at when then time should be, often depending on the medical condition of the child.<sup>8, 46, 47, 53, 58</sup> One study in particular, found some parents wanted to discuss end of life only when treatment had failed, while others wanted a fuller picture of potential outcomes and felt information should be shared earlier.<sup>46</sup>

Father recalled a pivotal moment when a surgeon said "'We will do anything that you want us to do. We will fight and do everything tooth and nail, do everything in our grasp and power; but unfortunately, we don't think we're going to succeed. We will do what you want; but if it was my child, I would take him home and love him" (Father)<sup>46</sup>

He was very good at explaining things, he was and he would answer any questions ... from my perspective when he was telling us 'I'm very sorry. There's nothing else that we can do.' And then it was believable, I didn't feel like we're being fobbed off, or anything like that. (Father 4)<sup>47</sup>

Parents were clear that these conversations needed to involve clinicians who they trusted and who knew their child.<sup>52</sup> They appreciated professionals who also included their child in discussions about their care and made sure, if appropriate, they understood what was happening.<sup>36, 42, 45, 46</sup>

For some parents, incomplete or vague information led to uncertainty and anxiety<sup>46, 49, 50</sup> and left them feeling unprepared or not understanding the severity of the situation.<sup>8, 45</sup> Parents found it particularly difficult if healthcare professionals provided conflicting information<sup>38, 47, 49, 51, 53</sup> and a few parents suggested that it would be helpful to have one consultant or co-ordinator to liaise with.<sup>39, 47</sup> Healthcare professionals who didn't listen or dismissed parents' concerns, inhibited parents' ability to protect their child<sup>38, 47, 50</sup> and compromised trust.<sup>47</sup>

It's a great idea to have one consultant that will oversee because there's so many doctors in-out, in-out, in-out, you know, and obviously everybody's got different opinions as to how things should be done. I think for (Child 10) she would have really benefited from having one person that had one say. (Mother 10)<sup>47</sup>

He never said, 'This is going to take your son's life.' She strongly believed that the neurosurgeon did not inform them that their son may die.(Mother)<sup>46</sup>

#### Advocating for their child's best interests

Some parents felt keenly their duty to ensure that end-of-life care plans took account of the child's best interests, that quality of life was the priority, and that they didn't suffer unnecessarily. 36, 39, 43, 44, 46, 47, 51, 53, 55, 58 There were times when this felt at odds with parents' own needs or sometimes with the views of clinicians. 36

You feel hopeless but they're still there that day and the next day and you as a mom has to decide how much they are suffering? Are they still surviving? Are they doing okay? (Mother) <sup>36</sup>

As much as it did hurt us to let him go, we were thinking what was best for him to be comfortable and not in pain (Mother 2)  $^{47}$ 

I had to be the one advocating for quality of life. I will say that was an uncomfortable conversation to have because it feels like as the mother in a weird messed up way you're advocating for your child's death, like they care more. (Mother) <sup>36</sup>

For other parents, the circumstances were completely overwhelming;<sup>47</sup> they could not think straight enough to be involved in planning, or they didn't want the burden of responsibility for such a complicated decision and therefore welcomed clinicians taking control.<sup>38, 43, 46, 49, 54, 55</sup> Two studies highlighted the experiences of some fathers who had relied on their wives to make decision as they felt they were more involved and better informed.<sup>39, 49</sup>

I pretty much left it up to my wife. I mean, she knew more and did more stuff there than I did (Father, 3 years after death).<sup>39</sup>

For many, an important part of being a parent and advocating for their child was ensuring that noone 'gave-up'. <sup>44</sup> Therefore, underpinning the ability to be part of decisions, particularly around endof-life care, was a need to know that both healthcare professionals and parents themselves had done everything they could, <sup>8, 42, 44-47, 55, 56</sup> and to remain hopeful until all options had been explored. <sup>44, 50</sup>

He's [our] responsibility. I know [the hospital] cares about him but I need to know that I'm doing everything as a parent.  $^{45}$ 

# Reconstructing the parental role

Thirteen of the twenty-five studies contributed to this theme. Three sub-themes emerged: shift from 'doing' to 'being', transitioning care and unrestricted access to their child.

## Shift from 'doing' to 'being'

For some parents there was a point when they understood and accepted their child had reached the end of their lives, this led to a shift, a reconstruction, of their perceptions of their parental role. They moved from a role of 'doing' - actively focusing on medical treatments and fighting for their child's

survival, to 'being' - spending time together, caring for and emotionally supporting their child. 43, 44, 48, 57

#### Transitioning care

A move from active treatment to comfort care meant for some parents a feeling that they had got their child 'back'<sup>46</sup> – that they were able to reclaim their child. For parents who were able to take a child home or move into hospice care for the end of a child's life, this meant being in a place where in some sense family life and parenting could return.<sup>48, 51, 56</sup> For example being able to maximise time with siblings and as a family, have friends and relatives to visit and being able to provide comfort in a more accessible and natural environment.<sup>46, 48, 51, 56, 57</sup>

When you are at home you can shut the door and no-one is telling you that your child is ill, when we brought Sally home that was our time. (Family 10, Mother)<sup>56</sup>

I did everything as normal for B. We put her on the settee and I chatted away to her. (Mother)<sup>57</sup>

Parents regained a sense of control and independence when they left hospital.<sup>40, 56</sup> It was important that they ensured their child's wishes were heard. If a child expressed the choice to die at home, they tried to make this happen.<sup>48, 49, 51, 56</sup>

He perceived the hospital as a prison for the sick, so we decided to return home. If we would keep him in the hospital, he would have felt deserted by us, and we didn't want this to happen.  $(F-M17)^{49}$ 

We'd have been told what to do instead of we telling what to do; we had the choice of whether we had the nurse or not ... I think we'd done enough living by hospital rules (family 7, mother).<sup>56</sup>

However not all parents felt that being at home was the right environment for child. Family and housing circumstances, confidence about meeting their child's medical needs and the availability of support services were also factors that influenced where parents felt was the best place for their child to die. <sup>47</sup>, <sup>49</sup> Others wanted their child to stay in hospital so medics could prolong their life as long as possible. <sup>47</sup> A transition was not easy, and some parents were never ready to make it. They resisted speaking about or engaging with palliative care services. For these parents, palliative care was negatively associated with "giving up" and losing hope. <sup>38</sup>

So when I heard palliative care, I heard hospice, I knew we were teetering on the edge of life. Instead of looking at the positives that it could do, I was just looking at, you know, I'm not ready to transition to that. We're still fighting, I still want aggressive care. (mother #8)<sup>38</sup>

## Unrestricted access

For some children, end-of-life care meant being released from the constraints of equipment, and so parents had free access to hold them, sometimes, for the first time. <sup>40, 41, 54</sup> Despite being intensely emotional, parents described the experience of holding their child, free of medical devices as they died as central to being a parent. <sup>41</sup> Others had this experience only after their child had died, yet it remained profound. <sup>54</sup>

We actually took away all his tubes and stuff and we actually got to hold him for that last couple of hours.  $(P9)^{41}$ 

We washed her ourselves and put on her clothes. It was wonderful. We finally had her without tubes. Free.. $(Mother)^{40}$ 

Once they ceased treatment, he was really just handed to us like a normal baby.(P7) 41

When you are ready, we are ready." ...[.] ... and then, slowly, they extubated the baby. First, they removed the catheters and then the tubes...she had a lot of stuff on. We were there with her- we have been always close to her. They let me hold her and then they left us alone. That's it. (Mother INT2) <sup>54</sup>

#### Continuing parenting through death and beyond

Nineteen study reports contributed to this theme. Four sub-themes, parenting as their child dies, caring for their child after death, creating memories and support to move to the next stage also emerged.

#### Parenting as their child died

Being prepared as far as possible, enabled parents to be with their child as they died, and to say goodbye. <sup>38, 41, 50, 53, 58</sup> For many there was a need to understand as far as possible what would happen as their child died. <sup>36, 39, 47, 50, 53-55</sup>

I needed someone to sit down with me and say, 'This is what her death is probably going to look like. This is what you need to be prepared for and how you can best help her through it.'<sup>36</sup>

Staff explained "the process of how they take out his tubes and all those little intimate details that you've obviously never thought of before because you've never been in this circumstance. All the little things like that can make a big difference" (Jessica – hospital 4)<sup>50</sup>

...not knowing what death is and what it's going to look like... when you're seeing it for the first time, when you're kind of dealing with it, both as an experience of death but also as your baby... I would like to have known that...sorry ... Not everybody would... (Mother 6)<sup>47</sup>

Parents wanted their dying child to be held either by themselves or the other parent <sup>40, 41, 43</sup> and described this as central to their role of being a parent.<sup>41</sup>

In the end he died quietly. On daddy's lap. I said: He was born from my womb, he may go from daddy's lap.  $(Mother)^{40}$ 

Those who believed conversations around prognosis came too late or that they were not given all the information, were left unprepared and rushed. <sup>39, 57</sup> It was deeply distressing for those parents whose child died when they were not there, or in traumatic circumstances. <sup>8, 54, 57</sup>

[Angrily] But one thing I wish they had told me [is] that I could've brought him home. I wouldn't have wanted him to die in hospital. But someone should have said, 'Look if you want to bring him home, you can.' Because I would have. (Mother, W5)<sup>57</sup>

The fact that they called us when the child was already dead was horrible. I had accepted the thought that my son could die. I couldn't see him anymore in that condition. But not being able to be there in that moment it was devastating. (Mother)<sup>54</sup>

## Caring for their child after death

For those who were able to, spending time with their child's body after they had died was important and helped some parents 'take leave'. 39-41, 43, 54 Parents found comfort in bathing, dressing and holding their child's body. Those who may have been initially hesitant often appreciated being encouraged to have this time. 38-40, 43, 57

I'm really glad that they consistently put me under pressure to take him. Because one memory about him is his weight: I took him out of the basket on the little cloth which was wrapped around him, and that's something which I felt long after: his weight. And this was so beautiful. (Mother)<sup>43</sup>

I changed him. It was nice to do that, because he... I wasn't able to put clothes on him much while he had all the wires on him. So to be able to do that was nice. But I think it also helped me understand that he was dead, if that makes sense.  $(P10)^{41}$ 

Those parents that has access to special cold bedrooms, usually in hospices, particularly cherished the extension of time together, to become 'aware' of their death. These facilities were not available to everyone. <sup>43,57</sup> Some parents did not feel comfortable being with the child's body, finding it stressful and wanting to preserve memories of them alive, <sup>43</sup> while others regretted not doing more and wished they had been invited or encouraged more actively. <sup>43</sup>

The only decision I absolutely regret is that after she passed away, the nurses asked me and my wife if we we'd like to help clean her up and put new clothes on her. I said "No." In hindsight, I feel that was the worst decision I ever made (Father, 3 years after death).<sup>39</sup>

I wish we had washed her. I mean I don't know if they made the call not to do that because I was in an ICU. I guess I feel like I missed the chance to mother her. (crying).... I would have liked to have done something like that.(P12)<sup>41</sup>

Parents also felt a strong need to understand that someone would be caring for their child until the time of the funeral, and for some the thought of the body being left alone in a morgue or harmed in a post-mortem was distressing.<sup>43, 54</sup>

## **Creating memories**

Nurses helped families create memories of the living, dying and in some cases dead children, through photos and videos, hand and footprints, making memory books and collecting special clothes and toys. These efforts were appreciated<sup>8, 38, 40, 57</sup> and the memories were deeply cherished,<sup>39</sup> helping parents to remember and tell the story of their child's life and identity and their time together as a family.<sup>41, 43</sup> For parents of babies, photos served as evidence of their child's existence and that their grief was real.<sup>59</sup> Some parents experienced discomfort during the process at the time, but appreciated the efforts retrospectively.<sup>43</sup>

The most powerful photo that we've got is one where my wife is holding (baby). And you can just see the heartbreak on her face. At the time I felt bad taking that photo. But I'm very glad we did, because as I said, it kind of reminds you that it did really happen. The pain was real. And her existence was real. (P8)<sup>59</sup>

And I mean, for me, I can go back and look at that. And see that my baby did exist. I have proof that he lived.  $(P2)^{59}$ 

That's something I particularly regret as well. The fact that we don't have a huge amount of photos, or a huge number of photos of (baby) when he was alive in the hospital. We've got a few, but certainly you can never have enough. (P16)<sup>59</sup>

## Support to move to the next stage

Parents acknowledged the need for bereavement support both before and after death, <sup>39, 52</sup> and the need for this support for siblings was highlighted. <sup>39</sup> Parents with children with complex medical conditions felt it would be helpful to have support groups with other families who understood the unique challenges they had faced. <sup>52</sup>

After a child had died, some parents experienced a loss of the relationships with the teams who had cared for their child<sup>39</sup> and in some cases, a sense of abandonment added to their grief.<sup>37</sup> Some staff reached out to parents after a child had died, including attending the child's funeral and this continued contact was a source of comfort<sup>8, 37, 45</sup> and reinforced that the professionals had cared about their child.<sup>37</sup> Maintaining a relationship with those that had cared for their child served as a reminder of their identity as a parent and in some cases helped adjust to their loss.<sup>48</sup>

I had such strong relationship with the people that I had met when I was there, it was difficult after I left and to not have those people in my life (mother, 3 years after death) $^{39}$ 

Once your child dies, that team of doctors, that whole [hospital] was our home. It's gone. All of a sudden, now, you've lost 2 families. And that's, and then the third being your, the nurses that were in

your home. It's just empty. Everything's gone. Your child's gone. Your family, your, your medical family is gone.... And you're alone. It's like waking up, and it's like everyone's dead" (ACP028) $^{52}$ 

## Care of the parent

A second overarching theme was care of the parent which split into two themes: direct support and emotional comfort and compassion. Providing end-of-life care for a child often included 'care of the parents' in the form of both practical and emotional support. <sup>38, 39, 42, 50</sup> Parents that were well cared for were better able to cope and look after themselves and thus felt better enabled to be a parent. <sup>50</sup>

Looking after us, so we could better look after Ethan. (Edward – hospital 2)<sup>50</sup>

#### **Direct support**

Four study reports contributed to this theme. Parents valued professionals who provided direct and practical support such as giving them toiletries, organising transport, ensuring they had cups of tea, food and somewhere to sleep. <sup>38, 42, 50, 57</sup> They helped to orientate parents, encouraged breaks, and let them know what facilities were available for them to use.

They were really helpful and then they don't let you forget to take care of yourself...(nurses said) It might be time for you to go home, your nodding off over here [participant laughing]...so they make sure I wasn't like (sic) passing out, and make sure, that you go eat, 'cause (sic) we tend to forget those things when we're sitting there. (mother #5)<sup>38</sup>

The nurses were just fantastic, they left us alone but at the same time they were there when we needed them, making us tea' (Mother, W1)<sup>57</sup>

## **Emotional comfort and compassion**

Seventeen study reports contributed to this theme. The emotional support offered, by nurses in particular, was acknowledged and appreciated. Being present and providing comfort, especially at very difficult points was important. <sup>38, 42, 50</sup> Other support provided directly to parents included spiritual and pastoral support. <sup>38, 55, 59</sup>

[Good staff] sat there and held me while I cried. (Abigail – hospital 2)<sup>50</sup>

Many parents were touched when staff showed compassion and sensitivity<sup>8, 36, 38, 39, 42, 43, 45, 46, 48-50, 55</sup> and felt comforted by demonstrations of kindness, empathy and emotional responses.<sup>8, 37, 41, 42, 45, 50</sup>

There are so many little things you guys have done and really means a lot. We had amazing nurses who really care. I think it was just a phenomenal experience from [the] depths of tragedy (mother, 3 years after death)<sup>39</sup>

The ones that helped us through and made a difference were the ones that will remain in our hearts. The ones who took that extra couple of minutes to talk to us, or you know tried to help us believe that there was hope and then when things showed what they were they told us in a compassionate way and I think that separates the good nurse from the bad nurse and the good doctor from the bad doctor those that can cry with you, those that feel for you—but they still have their head on straight.<sup>8</sup>

Parents experienced a sense of comfort and even parental pride when healthcare professionals demonstrated a particular or 'special' connection with their child.<sup>37, 47, 50</sup> This manifested in several ways, going 'above and beyond' such as staying beyond their shifts, <sup>37, 48, 50</sup> or providing non-clinical care such as braiding hair, decorating rooms and reading stories.<sup>37, 47, 48</sup>

It was almost comforting to know that [my daughter] had made that much of an impression on them so that [voice breaking] her little short life affected people. (Mother)<sup>37</sup>

They told me to go home, get some sleep. My partner couldn't sleep knowing that our daughter was awake there and we were not there so he went down and the nurse was reading a Winnie the Pooh story to her at 2 o'clock in the morning. You can't ask for better than that. (Mother) <sup>48</sup>

For some parents this level of emotional support meant that it felt like nurses had become part of the family, 'another mum'<sup>42, 44</sup> and that they understood them and the situation they were facing better than other friends and relatives. <sup>42</sup> Parents were able to have confidence that the nurses would be there for their child when the parents could not be present. <sup>44, 49</sup>

"staff are there for us when we can't be there" (Imogen, hospital 2)44

However, some parent's experiences were made harder when they perceived healthcare staff to be insensitive and lacking empathy. Parents were particularly upset if they did not feel that staff cared about their child.<sup>8, 39, 42, 45, 50</sup> Particularly distressing was when parents felt that their child's 'worth' was being judged or their lives not valued and treatment decisions were made accordingly.<sup>8, 50</sup>

[the doctor] was just like 'well, I've got more important people to deal with, doesn't look like Amelia is going to survive, how about we take our resources and put it somewhere else.' (Abigail – hospital 2)<sup>50</sup>

He told me there are 6 people working on him, "what do you want"—he kind of led me to believe that it was too much— people working on him.8

They gave me the impression it was a cost to keep Liam... it was like an expense to keep Liam... to try again. (Zoe - hospital 4) 50

# Confidence in the synthesised findings

Summary GRADE-CERQual review findings are presented in Table 4. The GRADE-CERQual assessments of high or moderate confidence suggest a reasonable representation of parents' experiences of end-of-life care for their child. For the full GRADE-CERQual assessment table see Supplementary Table 4.

Table 4. GRADE-CERQual Summary of findings table

	Summarised review finding	GRADE-CERQual Assessment of confidence	Explanation of GRADE- CERQual Assessment	References
	PROFOUND NEED TO FULFIL PAREN	NTAL ROLE - ESTABLISHING THE F	PARENTAL ROLE	
1	It was important that new parents of infants receiving end-of-life care established themselves in a parental role and the surroundings of a Neonatal intensive care unit setting can present challenges to this. Physical separation and medical instability of their child was distressing and constraining for parents. For some, this led to hesitation or lack of confidence, with fathers in one study, particularly reporting discomfort at handling such fragile infants.	High confidence	No/Very minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, No/Very minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	38-43
2	Encouragement and practical support from staff to hold their baby and provide caregiving enabled parents to establish and enact the parent-child relationship.	High confidence	No/Very minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, No/Very minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	38-44
3	For parents of Neonatal intensive care unit babies who only lived a short time, it was particularly crucial to maximise time together as this allowed parent to get to know their child and create an identity for them.	High confidence	No/Very minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, No/Very minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	38,39,41,43
	PROFOUND NEED TO FULFIL PAREN	TAL ROLE - MAINTAINING IDENT	ITY AS A PARENT	
4	Parents with children receiving end-of-life care needed to navigate maintaining their parental role. This relied on developing a collaborative and trusting team relationship with	High confidence	Minor concerns regarding methodological limitations, Minor concerns regarding	8,36-39,42,44-53

	Summarised review finding	GRADE-CERQual Assessment of confidence	Explanation of GRADE- CERQual Assessment	References
	healthcare professionals based on a sense of common purpose and an understanding of each other's roles. This relationship was fragile and when broken could lead to parents feeling excluded.		coherence, No/Very minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	
5	Parents had their own vision of how to express their role in terms of continued levels of involvement in the physical care of their child. Desired levels of involvement varied between parents, with some parents of older children expressing less of a need to be intimately involved in physical care. Parents of chronically ill children more accustomed to providing nursing care were keen to continue this role.	High confidence	No/Very minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, No/Very minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	36,39,40,42,42,50,54
6	Parents highlighted a need for space and privacy in order to preserve the family intimacy. Busy wards and unfamiliar intensive care settings provided little escape. Having unrestricted visiting hours and private family spaces enabled families to spend time together.	High confidence	No/Very minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, No/Very minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	8,36,38-41,43,44,47- 49,51,54,56-58
	PROFOUND NEED TO FULFIL PARE	NTAL ROLE - RESPONSIBILITY FO	R THEIR CHILD	
7	Parents were compelled to take some share of the ultimate responsibility for their child's end-of-life care planning and that this was central to their identity as parents.	Moderate confidence	Minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, Moderate concerns regarding adequacy (only two studies contributed to the finding), and No/Very minor concerns regarding relevance	39,43

	Summarised review finding	GRADE-CERQual Assessment of confidence	Explanation of GRADE- CERQual Assessment	References
8	Parents wanted healthcare professionals to provide complete, honest and understandable information, while also listening to parents' views and concerns. Parents openness to planning and discussing end-of-life care varied and it was important that this was handled sensitively and tailored to parents' needs.	High confidence	Minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, No/Very minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	8,36,38,39,42,45- 53,55,58
9	Most parents wanted to advocate for their child and represent their best interests, and to be absolutely sure that both the healthcare professionals and the parents themselves had done everything they could. Others were overwhelmed and welcomed clinicians taking control, while a few fathers reported relying on their wives/partners to make decisions as they felt they were more involved and better informed.	High confidence	No/Very minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, No/Very minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	8,36,38,39,42,44- 47,49-51,53-56,58
	PROFOUND NEED TO FULFIL PARENT	AL ROLE - RECONSTRUCTING THE	PARENTAL ROLE	
10	Parents' view of how to express their role could shift with the trajectory of their child's illness and for some parents, accepting their child had reached the end of their lives, involved moving from a state of 'doing' to 'being', placing more emphasis on spending time together and supporting their child.	High confidence	No/Very minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, Minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	43,44,48,57
11	For some parents taking their child home or moving into hospice care for end-of-life care, meant regaining control and being in a place where some sense of family life and parenting could return	Moderate confidence	No/Very minor concerns regarding methodological limitations, Minor concerns regarding coherence, Minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	38,40,46-49,51,56,57

	Summarised review finding	GRADE-CERQual Assessment of confidence	Explanation of GRADE- CERQual Assessment	References
12	For some children, end-of-life comfort care meant being released from the constraints of medical equipment, and so parents had unrestricted access to hold them, sometimes, for the first time.	Moderate confidence	No/Very minor concerns regarding methodological limitations, Minor concerns regarding coherence, Moderate concerns regarding adequacy (only three studies contributed to the finding), and No/Very minor concerns regarding relevance	40,41,54
	PROFOUND NEED TO FULFIL PARENTAL ROLE -	CONTINUING PARENTING THRO	OUGH DEATH AND BEYOND	
13	Being prepared for their child's death as far as was possible, enabled parents to be with their child as they died, to hold them and to say goodbye.	High confidence	No/Very minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, No/Very minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	8,36,38-41, 43,47,50, 53-55, 57,58
14	The need to fulfil the parental role did not end when a child died and for those who were able to, spending time with their child's body was important and helped parents 'take leave'. Parents who were initially reluctant reflected that they were grateful that this was encouraged by the nursing staff	High confidence	No/Very minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, No/Very minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	38-41,43,54,57
15	Memories and keepsakes generated during end-of-life care were deeply cherished and helped parents to remember and tell the story of their child's life and identity and their time together as a	Moderate confidence	No/Very minor concerns regarding methodological limitations, Minor concerns regarding coherence, Moderate concerns regarding	8,38-41,43,57,59

	Summarised review finding	GRADE-CERQual Assessment of confidence	Explanation of GRADE- CERQual Assessment	References
	family. For parents of babies these served as physical evidence of their child's existence		adequacy (2 out of 8 studies with rich data), and No/Very minor concerns regarding relevance	
16	Parents acknowledged the need for bereavement support both before and after death.	Moderate confidence	No/Very minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, Minor concerns regarding adequacy, and Minor concerns regarding relevance (excluded studies focused solely after child's death)	36,37,39,43,52
17	Some parents experienced a loss of the relationship with the teams who had cared for their child, and so maintaining this contact served as a reminder of their identity as a parent and in some cases helped adjust to their loss.	Moderate confidence	Minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, Minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	8,37,39,45,48,52
	CARE OF	THE PARENT - DIRECT SUPPORT		
18	Parents valued professionals who cared for them directly both practically and emotionally. This enabled them to be better parents.	Moderate confidence	No/Very minor concerns regarding methodological limitations, Moderate concerns regarding coherence as some data is conflicting, Minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	38,42,50,57
	CARE OF THE PARENT – EM	OTIONAL COMFORT AND COMP	ASSION	

	Summarised review finding	GRADE-CERQual Assessment of confidence	Explanation of GRADE- CERQual Assessment	References
19	Many parents were touched when staff showed compassion and sensitivity and felt comforted by demonstrations of kindness, empathy, and emotional responses	High confidence	No/Very minor concerns regarding methodological limitations, No/Very minor concerns regarding coherence, No/Very minor concerns regarding adequacy, and No/Very minor concerns regarding relevance	8,36-39,41-50,55,59

#### **Discussion**

# Main findings

This is the first synthesis to explore in depth the highly personal experiences of over 470 parents at the end of their child's life. Findings shed new light on the complex, unwelcome and often unexpected, rapid transition that mothers and fathers have to make both separately and together as their child dies. What emerges is a greater understanding of parents' fundamental need to continue to parent their child at the end of life, and how they need to adjust and redefine their role as parents of a dying and then dead child. Health care professionals and the contexts in which their child dies can either support or hinder this process. Achieving a good death that took account of rapidly changing parent and child needs and wishes was possible but did not consistently happen.

# What this study adds

Previous research had identified some of the specific features of care that impact on parent's experiences at the end of their child's life. These include parents' need for honest communication, for trusted relationships with staff, to be respected as experts in their child, to contribute to decision making and to receive emotional support, and these are all reflected in findings here. Where this review goes further is that the findings help to conceptualise the roles that parents want at the end of their child's life. When parents' expectations of their role are not met, they can feel side-lined and excluded. The wider research on 'good-parent' beliefs, summarised by Weaver et al. Confirms that understanding what parents believe to be their most important parental duties can provide care staff with key insight into their motivations and behaviours and how best to support families.

Parents' view of their role may evolve as their child reaches their final stage of life and for some parents this involves shifting from a state of 'doing' to 'being'. This echoes the *Lancet* Commission on the Value of Death, which set out five principles of a realistic utopia: a new vision of how death and dying could be.<sup>62</sup> One of these was that death is principally a relational and spiritual process rather than simply a physiological event. As such, the balance of care should shift, with relationships prioritised and made central to care and support.

The parental role does not end when a child dies, and parents need to be supported both before and after a child dies. This will impact both short- and longer-term outcomes as the process of adjusting and redefining their relationship with their child allows a continued bond and provides comfort and support in coping with loss.<sup>63</sup> These findings also reflect those from other research that high-quality care continues after the child's death and includes staff paying attention to the family and not forsaking them.<sup>60</sup> A recent systematic review of follow-up conversations with bereaved parents found that the vast majority of parents felt follow-up contact after their child had died was meaningful and helpful in their grieving process.<sup>64</sup> Kochen et al.'s review of parent-focused bereavement interventions showed that bereavement support should focus on the continuous nature of grief, and thus start before the death, aiding the transition that parents have to go through following their loss.<sup>65</sup>

Parents need to know the entirety of what is possible within the parental role so that they can construct their own vision and then enact and maintain their preferred roles, and to achieve this they need to be enabled and supported by healthcare professionals. It was clear from the studies synthesised that the view of their role varied for individual parents but there was little data showing differences between family circumstances such as single or separated parents or comparing settings of care. Over three quarters of the research participants included were mothers, making difficult to differentiate between the experience of fathers and mothers. There was less research focusing on parents' experiences of their child receiving specialist palliative care services particularly in hospices and or at home. The research was much more focused on experiences in neonatal and paediatric intensive cares settings. These are gaps in the evidence which could be filled with further primary research.

#### Implications for practice

The role of care staff is to take an individually tailored approach yet there is very little guidance for staff on how best to do this. There is a need to recognise parents' role in end-of-life care in both policy and practise guidance. The UK's National Institute of Health and Care Excellence (NICE) has quality standards for end-of-life care for infants, children and young people<sup>66</sup> that recommends support for parents for grief and loss, but they do not explicitly acknowledge the need to recognise, enable and support the parenting role.

Based on the findings, Table 5 includes a set of questions for practitioners to assess whether their own service and practice is meeting the needs of parents at the end of their child's life and after their death.

Table 5. Questions for practitioners to assess whether their own service and practice is meeting the needs of parents at the end of their child's life and after their death.

- Do you have the training and practical skills in order to empathetically communicate with and support parents at the end of their child's life and after their death?
- Does your service provide an appropriate environment (individually tailored family centred-care, unrestricted access, free accommodation, and parking etc) to enable parents to parent their child at the end -of- life and after their death?
- Do you listen to mothers and fathers to find out what they want and need in order to parent their child at the end- of- life and after their death?
- Do you specifically talk with and listen to mothers and fathers to find out their own specific parental needs and wishes, which could be similar as well as different?
- Do you share with parents what roles are possible when parenting their child at the end of their life and after their death?
- Do you actively encourage, help and practically support parents to fulfil their desired parental roles?
- Do you sensitively continually engage with parents to ensure that as their child's situation changes from end- of- life to after death that their parental roles and needs are constantly reassessed and supported in a responsive way?

# Strengths/limitations

This review has several strengths including the systematic approach to identifying relevant studies across five databases, the application of a sampling framework that led to a sample of contemporary good quality, data rich studies with relevance to the research question and then the use of thematic synthesis to translate the large amount of data into useful findings. Broad inclusion criteria meant that studies across a wide number of settings and covering children with any diagnosis were included. Sampling meant that not all literature was synthesised, and some important experiences of parents may not have been included. It is important to recognise the context of care, and as the studies were more focused on intensive care settings there could be a potential 'bias' in the syntheses of experiences of parents in these specific settings.

The draft findings resonated with a panel of parents including bereaved parents and their input shaped how some of the themes were described. Confidence in the individual review findings was assessed using GRADE-CERQual framework and found to be high or moderate.

#### Conclusion

All services delivering end-of-life care for children need to recognise the importance for parents of being able to fulfil their parental role as their child dies and consider how their service can enable this. What the parental role consists of, and how it is expressed, differs for individual parents. Policy and practice guidance should acknowledge the need to enable parents and to support them in parenting at the end of their child's life.

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## Ethics and consent

This is a systematic review and as such no ethical approvals were required.

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