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BMJ Open

How do children and adolescents experience healthcare professionals? Scoping review and interpretive synthesis

Journal:	BMJ Open
Manuscript ID	bmjopen-2021-054368
Article Type:	Original research
Date Submitted by the Author:	09-Jun-2021
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Keywords:	PAEDIATRICS, Quality in health care < HEALTH SERVICES ADMINISTRATION & MANAGEMENT, QUALITATIVE RESEARCH





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5	30	ABSTRACT				
6 7						
8	31	Objective				
9						
10	32	Explore children's and adolescents' (CADs') lived experiences of healthcare professionals (HCPs)				
11	52					
12						
14	33	Design				
15						
16	34	Scoping review methodology provided a six-step framework to, first, identify and organise				
17 10						
10 19	35	existing evidence. Interpretive phenomenology provided methodological principles for, second,				
20						
21	36	an interpretive synthesis of the life-worlds of CADs receiving healthcare, as represented by				
22						
23	37	verbatim accounts of their experiences.				
24 25						
26	38	Data Sources				
27						
28	20	Fine han determine (Quid MEDUNE Embres Coopies CINALII Dhus and Mah of Seisnes) from				
29 30	39	Five key databases (Ovid MEDLINE, Embase, Scopus, CINARE Plus, and web of Science), from				
31	40	incention through to January 2019, reference lists, and opportunistically identified publications				
32	10	inception through to January 2013, reference hists, and opportunistically identified publications.				
33						
34 35	41	Eligibility criteria				
36						
37	42	Research articles containing direct first-person quotations by CADs (aged 0-18 years inclusive)				
38						
39	43	describing how they experienced HCPs.				
40 41						
42	44	Data extraction and synthesis				
43						
44						
45 46	45	labulation of study characteristics, contextual information, and verbatim extraction of all				
40 47	16	(relevant' (as defined above) direct quetations. Analysis of basis scope of the ovidence base. The				
48	40	Televant (as defined above) direct quotations. Analysis of basic scope of the evidence-base. The				
49	47	research team worked reflexively and collaboratively to interpret the qualitative data and				
50	.,	research team worked renexively and conductatively to interpret the quantative data and				
51	48	construct a synthesis of children's experiences. To consolidate and elaborate the interpretation,				
53						
54	49	we held two focus groups with CAD inpatients in a children's hospital.				
55						
56 57	50	Results				
58	50					
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4 5	51	669 quotations from 99 studies described CADs' experiences of HCPs. Favourable experiences					
6 7 8	 52 were of forming trusting relationships and being involved in healthcare discussions 						
9 10	53	decisions; less favourable experiences were of not relating to or being unable to trust HCPs					
11 12	54	and/or being excluded from conversations about them. HCPs fostered trusting relationships by					
13 14	being personable, wise, sincere, and relatable. HCPs made CADs feel involved by including them						
15 16 17	56	in conversations, explaining medical information, and listening to CADs' wider needs and					
17 18 19	57	preferences.					
20 21 22	58	Conclusion					
23 24 25	59	These findings strengthen the case for making CADs partners in healthcare despite their youth.					
 26 26 60 We propose that a criterion for high-quality child-centred healthcare should be that F 27 							
28 29	61	communicate in ways that engender trust and involvement.					
30 31 32 33	STRENGTHS AND LIMITATIONS OF THIS STUDY						
34 35	63	Our findings have advanced current evidence by providing a comprehensive overview of					
36 37	64	CADs' experiences of HCPs, while providing a blueprint for the child-centred care					
38 39	65	conceptual model.					
40 41 42	66	• In addition to completing a scoping review in line with a published protocol, this article					
43 44	67	reports an interpretive phenomenological synthesis of the evidence-base					
45 46	68	Restricting included articles to the English language limited the scope of our review					
47 48 40	69	• Limitations in the metadata provided by primary researchers prevented subgroup					
50 51	70	analyses					
52		• The subjectivity of interpretive synthesis is both a limitation and a strength: a limitation					
53	71						
53 54 55	71 72	because it does not meet quantitative, experimental standards of proof; and a strength					
53 54 55 56 57 58	71 72 73	because it does not meet quantitative, experimental standards of proof; and a strength because we used our subject position as clinicians to help fellow clinicians earn the trust					
53 54 55 56 57 58 59 60	71 72 73 74	because it does not meet quantitative, experimental standards of proof; and a strength because we used our subject position as clinicians to help fellow clinicians earn the trust of CADs.					

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75 BACKGROUND

76 Children's experiences, like patients' experiences in general, are of fundamental importance in 77 healthcare.[1-3] Research consistently shows that favourable experiences are associated with a 78 wide range of positive health outcomes, including adherence to recommended treatments, 79 uptake of preventive care, and utilisation of healthcare resources.[3] Exploring, understanding, 80 and adapting to patients' experiences, particularly those concerning interpersonal 81 communication, is the hallmark of patient-centred care (PCC), which is what patients 'strongly 82 want'.[4,5] Accordingly, PCC has become the dominant ideology in healthcare design and 83 delivery.[6] 84 In the case of children, however, it has proven more difficult to establish a model of PCC.

85 Children and adolescents (CADs) are distinct from adults; they are developing physically, 86 intellectually, and emotionally, and they occupy different positions in society and by law.[7] 87 CADs, therefore, typically experience healthcare as part of a family unit, accompanied by 88 parents or guardians who often act on their behalf. These factors affect the roles that CADs 89 occupy within healthcare settings - how they interact and communicate with others - and 90 predispose them to asymmetric relationships with adults. To address this, two specific 91 theoretical models of care – family-centred care (FCC) and child-centred care (CCC) – have been 92 developed for use in paediatric practice, based on the principles of PCC but incorporating 93 modified conceptualisations of centredness.[8]

In FCC, the family is the central unit of care, with the aspiration of an equal partnership between
healthcare professionals (HCPs) and families. FCC, which first originated in the 1950s, was an
important conceptual advance because, up to this point, no framework existed to involve
parents in their children's care.[7] Recent research shows, however, that even within the FCC
framework, parents and professionals tend to predominate and CADs struggle to be true
participants.[9] In contrast, the newer concept of CCC situates CADs at the centre of healthcare

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4 5	100	practice, giving primacy to their voices and experiences. Rather than being guided by outsider
6 7 8 9 10 11 12 13 14 15	101	perspectives of children's best interests, CCC compels HCPs to consciously perceive and
	102	understand children's conditions, experiences, and priorities, as viewed through their
	103	eyes:[8,10,11]
	104	"[CCC] requires providers to critically consider the child's
16 17	105	perspective in every situation while ensuring collaboration
18 19	106	with the family who the [child] is part of."[8]
20		
21 22	107	While aspects of FCC and CCC may be pertinent in different clinical contexts,[12] experts now
23 24 25	108	advocate a move towards CCC,[13] arguing that it better upholds values laid down by the UN
26 27	109	Convention on the Rights of the Child and governing bodies (such as the General Medical
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	110	Council),[14,15] and could improve how CADs experience healthcare.[8,13]
	111	Adopting the CCC approach, however, requires a major shift in thinking and practice. Research
	112	suggests that HCPs' realities are incompatible with CADs', with HCPs focused on prioritizing
	113	tasks, 'getting the job done', and mitigating, rather than engaging with, CADs' demands.[16]
	114	Furthermore, HCPs' communication strategies adopted for consulting CADs are largely
	115	underpinned and conceptualized by biomedical or psychosocial models, from the clinical
	116	gaze,[17] with little or no input from CADs.[18,19] And while CADs' healthcare experiences
44 45	117	overall are generally positive, large-scale studies have identified shortcomings in how HCPs
40 47 48	118	interact and communicate, [20–22] impacting on CADs' ability to manage their conditions and
49 50	119	participate in decision-making.[23] HCPs, too, continue to find communicating with CADs
51 52 53	120	challenging, supporting a change in thinking and practice.[19]
54 55	121	To achieve the vision of CCC, then, HCPs need greater insight into the experiences of sick
56 57	122	children.[11] This reflects a wider drive towards co-production (providers and service users
58 59 60	123	working in equal partnership to effect change) in children's healthcare;[24,25] and also
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5	124	complements the present impetus to acknowledge and examine CADs' own experiences,
5 7 8	125	opinions, and priorities, within research, [26,27] quality improvement, [28–30] and standard
9 10	126	setting.[31] To date, however, most research and surveys examining experiences in paediatric
11 12	127	settings have relied on parents' accounts, while CADs have participated less, if at all.[32]
13 14 15	128	Nevertheless, the few studies that have explored CADs' own experiential accounts have found
15 16 17	129	them to be informative and distinct from parents'.[23,33] At present, these accounts are widely
18 19	130	dispersed, yet if compiled, synthesised, and interpreted, these could provide a rich account of
20 21 22	131	CADs' lived experiences of how they encounter HCPs.
23 24	132	This study aimed to explore how CADs experience HCPs within interpersonal interactions, in
25 26	133	order to provide practitioners, organisations, and policymakers with evidence that could
27 28 20	134	promote child-centred communication. First, we conducted a scoping literature review to
30 31	135	systematically gather evidence on CADs' experiences of HCPs. Second, we interpreted CADs'
32 33	136	extracted quotations from the perspective of phenomenology. This well-established
 34 35 137 methodological tradition, grounded in philosophy 36 		methodological tradition, grounded in philosophy, enables researchers to produce valid
36 37 38	138	interpretations by examining and interpreting participants' verbatim accounts of their lived
39 40	139	experience.[34] Finally, we organised the interpretation into a synthetic account of how CADs
41 42	140	experience their interactions with HCPs.
45 44	141	METHODS
45 46	142	Methodological orientation
47 48 40	143	Scoping review methodology has a pragmatic orientation in the sense that it sets out to map
49 50 51	144	existing published evidence on a topic but it is adaptable in the sense that the usefulness of its
52 53	145	procedures is not tied to any one specific epistemology (theory of the nature of knowledge).[35-
54 55	146	37] As in our previously published research, [38] this review augments scoping review
56 57 58	147	procedures with interpretive phenomenology. The latter has an ontology (theory of the nature
59	148	of being) derived from the philosophy of Husserl, according to which the lived experience of

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149 research participants is a legitimate topic of qualitative inquiry.[34] Interpretive phenomenology 150 helps researchers respond reflexively to spoken or written words and arrive at valid, subjective 151 interpretations. Phenomenologists typically take a reflexive stance that consciously sets aside 152 strong a priori preconceptions whilst allowing their own experiences (such as, in our case, having 153 experience of caring for sick children) to help them construct an informative interpretation. The 154 quality of a constructivist interpretation is to be judged by its trustworthiness, authenticity, and 155 ability to catalyse action – which, in this case, would be to improve future children's healthcare experiences.[39] 156

157 Study procedures

The research followed a published protocol (accessible at https://rdcu.be/b2FFk),[40] which
proposed to supplement traditional scoping review procedures with an interpretive synthesis,
the distinction between which is explained in the previous paragraph. The scoping component
followed the 6-step framework outlined by Arksey & O'Malley,[35] Levac et al.,[36] and
Colquhoun et al.,[37] adhering to PRISMA-ScR reporting guidance (included in online

163 supplementary file 1).[41]

164 **Step 1: Defining the research question**

165 This was: 'What is known about children's and adolescents' experiences of healthcare

166 professionals, from their present perspective?', the final phrase emphasizing our commitment to

167 CADs' contemporaneous accounts of their experiences expressed in their own words, rather

168 than parents' descriptions or adults describing childhood memories.

169 Step 2: Identifying relevant articles

5 170 We designed a STARLITE search strategy (summarised in table 1) to identify all published articles

containing CADs' experiences of HCPs expressed as first-person direct quotations.[42] A subject

172 librarian constructed a database search (included in online supplementary file 2), using the

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population, context, and concept framework, [43] combining the terms 'children' or

174 'adolescents', 'healthcare', and 'experience' (and synonyms), limiting it to English language

articles, 'qualitative research', and '0 to 18 years', and then running it on Ovid MEDLINE,

176 Embase, Scopus, CINAHL Plus, and Web of Science from inception to 11th January 2019. We

177 included other articles found by searching relevant reference lists or found opportunistically.

Table 1 STARLITE summary of search strategy[42]		
Sampling strategy	Comprehensive: attempting to identify all published materials	
Types of studies	Any published study contributing to the research question:	
	qualitative (with or without other methodologies (i.e., mixed	
	method)); primary or secondary sources	
Approaches	Electronic database searching; manual searching of reference lists;	
	articles found opportunistically	
Range of years	From database inception until 11 th January 2019	
Limits	Articles published in English language; 'qualitative research';	
	children aged 0-18 years (inclusive)	
Inclusion and	See table 2 and Step 3: Study selection	
exclusion criteria	6	
Terms used	See online supplementary file 2	
Electronic databases	Ovid MEDLINE; Embase; Scopus; CINAHL Plus; Web of Science	

178 Step 3: Study selection

- 179 Refinement of selection criteria
- As is customary in scoping review, the process iterated between searching, selecting, extracting

181 data, and refining the research question. To enhance the rigour of this process, and in keeping

182 with our interpretive stance, we responded reflexively to the accumulating evidence, discussing

183 our interpretations, and articulating a clear rationale for each refinement. All records were

184 imported to Mendeley Reference Manager, duplicates removed, titles and abstracts screened

185 against five screening questions (Box 1), and full texts of those that screened positive reviewed

186 against eligibility criteria.

Box 1 Screening questions	
1	Aro the participants CADs (

- Are the participants CADs (< 18 years)?
- 2. Is the study examining an aspect of health, illness, or healthcare?
- 3. Are CADs participating as recipients of healthcare?
- 4. Are participants aged > 18 years excluded from the study?
- 5. Do children or adolescents describe experiences?

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87 These criteria, at first provisional (table 2A), were progressively refined in response to the 88 heterogeneity of evidence. Table 2B shows final criteria. GD led the process of first-screening, 89 annotating, sorting, and collating articles. MK & TD supported her by second-screening 10% of 90 records, discussing results, assessing articles whose eligibility was in doubt, and responding to 91 the often-imprecise details given by researchers. Any ambiguities (i.e., lack of age ranges) during 92 screening led to full-text review and a final decision about eligibility against criteria. To optimise 93 validity of the selection process, GD rescreened all records and annotations after each 94 refinement and, finally, after definitive criteria had been set. 95 Rationale for criteria 96 We included children up to and including 18 years because late adolescents are increasingly 97 cared for in paediatric settings.[44,45] Our age range conforms, also, with the United Nations' 98 influential definition of adolescence. [46] We included articles that contained verbatim 99 quotations irrespective of methodology. Judgement of methodological quality was not a 00 criterion for three reasons: it is not standard practice in scoping reviews; it is notoriously difficult 01 to judge qualitative research categorically; [46] and the interpretive synthesis used verbatim 02 quotations, whose validity does not depend on what the primary researchers did with CADs' 03 words. Because authors often failed to report the exact age of patient participants they quoted,

we excluded any study that included <u>patient</u> participants aged > 18 years (see, for example,

205 Tjaden et al. [47]).

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Table 2 Eligibility criteria for article selection

Α.	Provisional	В.	Definitive
Inclusio	on criteria:		
1.	CADs speaking about HCPs, through first-person direct quotations.	1.	CADs speaking about one or more HCPs, on one or more instances, from any experience, through first-person direct quotation(s), where there had been direct contact between the two parties, and where CADs were the persons receiving healthcare.
2.	HCP defined as a member of a healthcare team.	2.	An HCP defined as a member of a healthcare team with professional qualifications and training, such as a qualified doctor, nurse, therapist, psychologist, or social workers, regardless of grade.
3.	CADs defined as ≤ 18 years old, regardless of health status or illness type.	3.	CADs defined as \leq 18 years, regardless of health status or illness type.
Exclusi	on criteria:		
1. 2.	Adults aged >18 years included in the study. Non-English language publications.	1. 2. 3. 4. 5.	Adult <u>patients</u> aged >18 years included in the study with or without CADs as defined above. Non-English language publications. CADs speaking about HCP(s) not from memory of personal experience as a patient; for example, third-party description (e.g., parent). Age range of CAD participants unclear. No full-text manuscript available; only an abstract available, or unobtainable by searching online, directly emailing authors, or by university librarians requesting inter-library loans.
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207 Step 4: Charting the data

- 208 GD and MK piloted a spreadsheet to chart study characteristics, contextual information, and all
- 209 CADs' verbatim quotations on 10 articles; this resulted in the final dataset shown in box 2, which

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210 GD then used to extract data on the remaining articles.

	Box 2 Data extracted
	Study characteristics: - First author - Year published - Country of origin - No. CAD participants - Age range of CAD participants - Male to female (or non-binary) ratio - Other participants (e.g., parents) - Methods - Methodology (or analytical approach)
	Contextual information: - Study focus (the experience being explored) - Health setting - Health condition - Length of healthcare encounter being explored
	CADs' quotations: - All first-person direct quotations, where CADs are talking about HCPs - Age and gender referenced to each quotation
211	When key information was missing or unclear, we sought clarification from primary authors. All
212	authors independently reviewed the extracted information for its fitness to address the aims and purpose of the study, subsequently conferring to optimise the validity of the dataset.
214	Step 5: Collating, summarising, and reporting the results
215	We first analysed the basic characteristics of included studies. We then identified themes in the
216	verbatim quotations following Braun and Clarke's method of thematic analysis as defined by
217	their checklist (included in online supplementary file 3).[48,49] GD immersed herself in the data,
218	reviewing all quotations on Microsoft Excel, using NVivo 12 qualitative analysis software to
219	support generation of codes and construction of themes.[50] Other team members supported
	12

> her interpretation, by reviewing quotations first individually, and then collectively. We systematically interrogated the data for themes that had meaning in relation to the research question, revising candidate themes periodically (with the aid of a visual thematic map) to ensure these were coherent, distinctive, complementary, and relevant. The ensuing thematic structure had central concepts, which we used to organise subordinate themes and their associated codes. Throughout this process, we constantly compared our evolving interpretation against the original data, including a final 'quality control' check of the synthesis against all quotations.[49]

In keeping with our interpretive stance, we used our different subject positions as paediatricians, a family doctor, and an adult internist to interpret CADs' words reflexively and arrive at 'beyond-surface insights', so that the themes were amenable to an additional stage of phenomenological synthesis. [48,49] As we did this, the gamut of emotional content in CADs' words became an increasingly compelling influence on our interpretation. CADs' emotional expressions tended to have quite distinct 'valence' (defined as the attractiveness [positive valence] or averseness [negative valence] of the emotions described) which linked in recurring ways to HCPs' reported behaviours.[51,52] So, for example, a HCP who related well to a child might engender trust, while an HCP who related poorly might engender mistrust.

Whilst crude dichotomies between positive/negative emotions and behaviours do not reflect the subtlety of interpretive research, links between these contrasting behaviours were so clearly present that they offered a parsimonious way of presenting our results. The Results section uses the terms 'favourable' and 'unfavourable' to specify what are, in reality, nuanced polarities. To epitomize these important themes in ways that could encourage HCPs to emulate favourable behaviours, we present predominantly favourable behaviours, but provide negative counter-examples to emphasize the breadth of CADs' experiences. As in previous research, [53] we used CADs' own words, as far as possible, to construct a narrative of findings that was as true as

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4 5	245	possible to the phenomena experienced and narrated by children. We use the wording 'HCPs did
6 7 8	246	X' as a shorthand for the more correct wording, 'CADs experienced HCPs as doing X'.
9 10 11	247	Step 6: Stakeholder consultations
12 13	248	As recommended by Levac et al.,[36] GD, AT, and RC (with research ethics and governance
14 15 16	249	approvals) recruited CADs aged 8-16 from inpatient wards in the Royal Belfast Hospital for Sick
17 18	250	Children (RBHSC) to two focus groups whose aim was to consolidate and elaborate on findings.
19 20	251	Participants and parents chose whether parents should attend. We presented candidate themes
21 22 22	252	along with exemplar quotations and facilitated discussions, asking participants to comment on
23 24 25	253	provisional findings and provide suggestions for practice. We audio-recorded sessions and
26 27	254	transcribed recordings verbatim. We reviewed transcripts alongside the provisional findings to
28 29	255	authenticate, build upon, and summarise a final narrative of results. Participants' identities are
30 31 32	256	pseudonymised in the results section.
32 33 34 35	257	Patient and public involvement
36 37	258	The essence of this research was to involve children, albeit as expressed verbatim by other
38 39 40	259	researchers. The stakeholder consultation further fulfilled the patient and public involvement
40 41 42	260	component of the research by ensuring findings disseminated were intelligible and relevant.
43 44	261	RESULTS
45 46 47	262	We identified 1,359 articles, excluding 1,015 by screening and 245 by reviewing full texts, and
48 49	263	categorised reasons for exclusion on a PRISMA flow diagram (shown in figure 1).
50 51 52	264	Overview of included studies
53 54 55	265	Table 3 presents an overview of included studies (n=99), published between 1992 and 2018. In
56 57	266	total, 4,448 CADs, aged 11 months to 18 years, participated. Most studies included 8 to 50
58 59	267	participants (n=73), aged 7 or older (n=70), and used interviews only (n=64). Studies commonly
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included CADs with chronic and potentially debilitating or life-threatening conditions (such as <text> asthma and cancers), explored long-term experiences (over months to years), and focused on hospital care. Further descriptive findings and figures are presented in online supplementary file

4.

Table 3 Study characteristics

Study details		CAD participants				Design	Contextual information				
First author, year	Country	n	Age (yrs)	M:F	Methods	Methodology/analytical approach	Study focus (experience of)	Health setting	Health condition	Length of encounter	Quot
			11-						Mental health		
Aalsma et al., 2014[54]	US	19	17	12:7	INT	Qualitative	CAMHS	Non-specific	illness	Long-term	
Alex MR, 1992[55]	Canada	24	7-11	13:11	INT, Q	Content analysis	Pain	Hospital	Surgical (post-op)	Short-term	
			15-			Interpretative			Post-lung		
Anderson <i>et al.</i> , 2017[56]	England	6	18	3:3	INT	phenomenological analysis	Lung transplantation	Hospital	transplantation	Long-term	
Ångström-Brännström <i>et al.,</i> 2008[57]	Sweden	7	4-10	3:4	INT (PT)	Thematic analysis	Being comforted	Hospital	Chronic	Short-term	
Ångström-Brännstrom et al.,	Sweden						Comfort during cancer				
2014[58]		9	3-9	5:4	INT	Content analysis	treatment	Hospital	Cancer	Long-term	
Beresford et al 2003[59]	England	63	11-	27.36	INT EG (PT)	Framework method	Communicating	Hospital	Chronic	Long-term	
beresiona et al., 2003[39]	Lingianu	03	10-	27.30		Tranework method	Hospital and coping	nospital	Chronic	Long-term	
Boyd <i>et al.,</i> 1998[60]	Canada	6	13	2:4	INT (PT), WT	Grounded theory	strategies	Hospital	Surgical (chronic)	Long-term	
			11-						Mental health		_
Brown <i>et al.,</i> 2014[61]	US	19	17	12:7	INT	Grounded theory	Therapeutic alliances	Hospital	illness	~	
Carney et al., 2003[62]	Scotland	213	4-17	115:98	INT, FTQ	Thematic analysis	Healthcare	Hospital	Non-specific	Non-specific	
Cheng et al., 2003[63]	Taiwan	90	5-14	45:45	INT	Content analysis	Pain	Hospital	Non-specific	Non-specific	
Cheng <i>et al.,</i> 2016[64]	Taiwan	11	12- 18	7:4	INT	Content analysis	Cancer recovery	Hospital	Cancer	Long-term	
Christofides <i>et al.</i> , 2016[65]	Canada	19	8-18	7:12	INT	Thematic analysis	Research participation	Hospital	Cystic fibrosis	Long-term	
Clift <i>et al.</i> , 2007[66]	Wales	6	11- 15	3:3	INT	Qualitative	Emergency admission	Hospital	Non-specific	Short-term	
			14-	219:15							_
Colver <i>et al.,</i> 2018[67]	England	374	18	5	INT, Q, OBS	Constant comparison	Transition	Hospital	Medical	Long-term	
									Cancer/ blood		
Corsano et al., 2015[68]	Italy	27	6-15	12:15	INT	Qualitative	Emotional events	Hospital	disorders	Long-term	
Coyne, 2006[69]	Ireland	55	7-18	30:25	INT, FG	Constant comparison analysis	Participating/ decision- making	Hospital	Non-specific	Non-specific	
Covne. 2006a[70]	Ireland	11	7-14	~	INT	Grounded theory	Hospitalisation	Hospital	Non-specific	~	
					INT (PT), FTQ.						
Coyne, 2006b[71]	Ireland	11	9-14	~	OBS	Grounded theory	Participating	Hospital	Non-specific	~	
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Study details		CAD participants				Design		Contextual information			
First author, year	Country	n	Age (yrs)	M:F	Methods	Methodology/analytical approach	Study focus (experience of)	Health setting	Health condition	Length of encounter	Quotes (n)
Coyne, 2011[73]	Ireland	55	7-18	31:24	INT, FG	Qualitative	Communicating/ decision- making	Hospital	Non-specific	Non-specific	20
Coyne, 2012[74]	Ireland	38	7-18	~	INT (PT)	Content analysis	Hospital and HCPs	Hospital	~	~	24
Coyne, 2014[75]	Ireland	20	7-16	11:9	INT (PT)	Constant comparison analysis	Participating/ decision- making	Hospital	Cancer	Long-term	2
Coyne <i>et al.,</i> 2015[76]	Ireland	15	12- 18	6:9	INT, FG	Thematic analysis	CAMHS	Non-specific	Mental health illness	Long-term	6
Coyne <i>et al.,</i> 2016[77]	Ireland	20	7-16	11:9	INT	Grounded theory	Communicating	Hospital	Cancer	Long-term	6
Curtis et al., 2017[78]	England	17	5-16	~	INT (PT), OBS	Ethnographic	Single/ shared rooms	Hospital	~	~	3
Das et al., 2017[79]	India	14	8-15	~	FG	Qualitative	Living with HIV	Non-specific	HIV	Long-term	1
Day <i>et al.,</i> 2006[80]	England	11	9-14	5:6	FG	Thematic Analysis	CAMHS	Non-specific	Mental health illness	Long-term	13
Dell'Api <i>et al.,</i> 2007[81]	Canada	5	10- 17	2:3	INT	Qualitative	Interacting with HCPs	Hospital	Non-specific	Long-term	19
Dixon-Woods <i>et al.</i> , 2002[82]	England	20	8-16	9:11	INT	Constant comparison analysis	Asthma services	Community	Asthma	Long-term	12
Edgecombe <i>et al.,</i> 2010[83]	England	22	11- 18	16:6	INT	Thematic analysis	Asthma services	Hospital	Asthma	Long-term	5
Ekra <i>et al.,</i> 2012[84]	Norway	9	7-12	5:4	INT, OBS (PT)	Hermeneutic phenomenology	Hospitalisation	Hospital	TIDM	Long-term	2
Engvall <i>et al.,</i> 2016[85]	Sweden	13	5-15	6:7	INT (PT)	Content Analysis	Radiotherapy	Hospital	Cancer	Long-term	2
Forsner <i>et al.,</i> 2005[86]	Sweden	7	7-10	4:3	INT	Thematic analysis	Illness	Hospital	~	Short-term	4
Forsner <i>et al.,</i> 2009[87]	Sweden	9	7-11	2:7	INT, OBS	Hermeneutic phenomenology	Fear	Hospital	Non-specific	Short-term	4
Garth et al., 2009[88]	Australia	10	8-12	3:7	INT	Grounded theory	Participating	Non-specific	Cerebral palsy	Long-term	3
Gill et al., 2016[89]	England	12	14- 17	2:10	INT	Thematic analysis	CAMHS inpatient ward	Non-specific	Mental health illness	Long-term	2
Griffiths <i>et al.</i> , 2011[90]	Australia	9	8-16	~	INT	Interpretative phenomenological analysis	Living with cancer	Non-specific	Cancer	Long-term	3
Haase <i>et al.,</i> 1994[91]	US	7	5-18	3:4	INT (PT)	Colaizzi's method of phenomenological analysis	Completing cancer treatment	Non-specific	Cancer	Long-term	6
Hall et al., 2013[92]	England	17	8-17	~	INT	Thematic analysis	Life with repaired cleft lip/ palate	Non-specific	Cleft lip/ palate	Long-term	1

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Study details		CA	D partici	pants		Design	Contextual information				
First author, year	Country	n	Age (yrs)	M:F	Methods	Methodology/analytical approach	Study focus (experience of)	Health setting	Health condition	Length of encounter	Quotes (n)
Han <i>et al.,</i> 2011[93]	China	29	7-14	16:13	INT	Content analysis	Cancer	Hospital	Cancer	Long-term	2
Hanson et al., 2017[94]	US	30	4-14	16:14	INT	Narrative analysis	Pain	Hospital	Fractured arm	Short-term	5
Harper <i>et al.,</i> 2013[95]	England	10	16- 18	3:7	INT	Interpretative phenomenological analysis	CAMHS	Non-specific	Mental health illness	Long-term	8
Hart et al., 2018[96]	England	14	14- 16	~	INT	Thematic analysis	CAMHS	Non-specific	Mental health illness	Long-term	2
Hawthorne <i>et al.,</i> 2011[97]	England	21	7-16	12:9	FG	Thematic analysis	Diabetes services	Hospital	T1DM	Long-term	8
Hinton <i>et al.,</i> 2015[98]	England	21	8-17	6:15	INT (PT)	Constant comparison analysis	A multiple sclerosis diagnosis	Non-specific	Multiple sclerosis	Long-term	3
Hodgins <i>et al.</i> , 1997[99]	Canada	85	5-13	38:41	INT, Q	Mixed-method	Venepuncture	Hospital	Non-specific	Short-term	3
Hutton, 2005[100]	Australia	7	13- 18	3:4	INT (PT)	Qualitative	Adolescent wards	Hospital	Cystic fibrosis/ asthma	Long-term	3
Jachyra <i>et al.,</i> 2018a[101]†	Canada	8	11- 17	4:4	INT	Interpretative phenomenological analysis	Talking about weight	Non-specific	ASD	Long-term	6
Jachyra <i>et al.,</i> 2018b[102]†	Canada	8	11- 17	4:4	INT	Interpretative phenomenological analysis	Talking about weight	Non-specific	ASD	Long-term	4
Jensen <i>et al.</i> , 2012[103]	Denmark	8	8-10	5:3	INT (PT)	Thematic analysis	Acute hospitalisation	Hospital	Medical	Short-term	6
Jongudomkarn <i>et al.,</i> 2006[104]	Thailand	49	4-18	31:18	INT, FG, OBS, PT	Content analysis	Pain	Non-specific	Non-specific	Long-term	1
Kluthe <i>et al.,</i> 2018[105]	Canada	18	6-17	11:7	INT	Content analysis	IBD diagnosis	Hospital	IBD	Long-term	1
Koller <i>et al.</i> , 2010[106]	Canada	21	5-18	12:9	INT (PT)	Grounded theory	Hospitalisation during SARS	Hospital	Non-specific	Long-term	2
Koller, 2017[107]	Canada	26	5-18	11:15	INT (PT)	Thematic analysis	Medical education/	Hospital	Chronic	long-term	10
Kortesluoma <i>et al.,</i> 2006[108]†	Finland	44	4-11	~	INT	Content analysis	Pain	Hospital	Non-specific	Non-specific	1
Kortesluoma <i>et al.,</i> 2008[109]†	Finland	44	4-11	27:17	INT	Content analysis	Pain	Hospital	Non-specific	Non-specific	7
Lewis et al., 2007[110]	Australia	9	8-16	5:4	INT	Cognitive mapping	Receiving care	Hospital	~	~	5
Livesley <i>et al.</i> , 2013[16]	England	15	5-15	3:2	INT (PT), OBS	Critical ethnography, constant comparison analysis	Hospitalisation	Hospital	Surgical	Long-term	4
Lowes et al., 2015[23]	Wales	518	7-15	~	FTQ	Qualitative descriptive analysis	Life with T1DM and services	Hospital	T1DM	Long-term	8

Study details		CA	D partic	ipants		Design	Contextual information				
First author, year	Country	n	Age (yrs)	M:F	Methods	Methodology/analytical approach	Study focus (experience of)	Health setting	Health condition	Length of encounter	Quotes (n)
Macartney et al., 2014[111]	Canada	12	9-18	6:6	INT	Content analysis	Life after a brain tumour	Non-specific	Brain tumour	Long-term	1
Manookian <i>et al.</i> , 2014[112]	Iran	6	6-17	3:3	INT	Interpretative phenomenological analysis	Stem cell transplantation	Hospital	Cancer & blood disorders	Long-term	4
Marcinowicz <i>et al.,</i> 2016[113]	Poland	22	10- 16	8:14	INT	Content analysis	Nurse relationships and wards	Hospital	~	~	7
Marshman <i>et al.,</i> 2010[114]	England	10	12- 14	5:5	INT, Q	Framework analysis	Malocclusion treatment	Non-specific	Malocclusion	Long-term	1
McNelis <i>et al.,</i> 2007[115]	India	11	7-15	6:5	FG	Thematic analysis	Living with epilepsy	Non-specific	Epilepsy	Long-term	2
McPherson <i>et al.</i> , 2017[116]	Canada	17	6-18	8:9	INT	Phenomenology, thematic analysis	Talking about weight	Hospital	Spina Bifida	Long-term	3
McPherson <i>et al.</i> , 2018[117]	Canada	18	10- 17	9:9	INT, FG	Thematic analysis	Talking about weight	Hospital	Non-specific	Long-term	3
Moules, 2009[118]	England	138	9-14	82:56	INT (PT)	Framework analysis	Hospital care	Hospital	~	~	3
Nguyen <i>et al.,</i> 2010[119]	Sweden	40	7-12	~	INT, Q, vital signs	Content analysis	Music therapy for lumbar puncture	Hospital	Cancer	Short-term	1
Nilsson <i>et al.,</i> 2011[120]	Sweden	39	5-10	32:7	INT	Content analysis	Pain	Hospital	Skin trauma	Short-term	4
Noreña Peña AL <i>et al.,</i> 2011[121]†	Spain	30	8-14	13:17	INT, OBS	Critical incident technique	Communicating with nurses	Hospital	Surgical	~	24
Noreña Peña AL <i>et al.,</i> 2014[122]†	Spain	30	8-14	13:17	INT, OBS	Critical incident technique	Communicating with nurses	Hospital	Surgical	~	22
Olausson <i>et al.</i> , 2006[123]	Sweden	18	4-18	8:10	INT	Hermeneutic phenomenology	Life after transplantation	Non-specific	Post- transplant	Long-term	6
Pelander <i>et al.,</i> 2004[124]	Finland	40	4-11	28:12	INT	Content analysis	Nursing care	Hospital	Chronic (T1DM & other)	Long-term	3
Pelander <i>et al.,</i> 2010[125]	Finland	388	7-11	198:18 8 *	FTQ	Content analysis	Hospitalisation	Hospital	Non-specific	Non-specific	2
Pölkki <i>et al.,</i> 1999[126]	Finland	20	7-11	~	INT, WT	Content analysis	Pain	Hospital	Non-specific	~	1
Pope <i>et al.</i> , 2018[127]	Australia	15	4-8	11:4	INT (PT)	Thematic analysis	Pain and nurses' roles	Hospital	Trauma	Short-term	1
Randall, 2012[128]	England	21	0.9- 17	8:12 *	INT, FG (PT), PTD	Colaizzi's method of phenomenological analysis	Community children's nursing	Community	Non-specific	Long-term	
Rankin <i>et al.,</i> 2018[129]	Scotland	24	9-12	13:11	INT (PT)	Thematic analysis	Managing T1DM	Non-specific	T1DM	Long-term	1
Roper <i>et al.,</i> 2018[27]	England	16	7-15	9:7	INT	Qualitative	Research participation/ consent	Hospital	Asthma or anaphylaxis	Short-term	7

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Study details	CAD participants			Design		Contextual information			Data		
First author, year	Country	n	Age (yrs)	M:F	Methods	Methodology/analytical approach	Study focus (experience of)	Health setting	Health condition	Length of encounter	Quotes (n)
Ruhe <i>et al.,</i> 2016[130]	Switzerland	17	9-17	11:6	INT	Thematic analysis	Participating	Hospital	Cancer	Long-term	1
Ryals, 2011[131]	US	8	13- 17	6:2	INT	Phenomenology	Therapeutic relationships	Non-specific	Mental health illness	Long-term	59
Saarikoski <i>et al.,</i> 2018[132]	Finland	19	6-12	7:12	FG	Content analysis	Therapeutic intervention	Community (school)	Enuresis	Long-term	1
Salmela <i>et al.</i> , 2010[133]	Finland	90	4-6	~	INT	Colaizzi's method of phenomenological analysis	Hospital related fears	Hospital	~	~	4
Schalkers <i>et al.</i> , 2014[134]	The Nether- lands	63	6-18	31:32	INT (PT), WT	Action research	Hospital care	Hospital	Non-specific	~	8
Schmidt <i>et al.,</i> 2007[135]	US	65	5-18	34:31	INT, FTQ	Thematic analysis	Nurses in hospital	Hospital	Non-specific	Non-specific	45
Spalding <i>et al.</i> , 2016[136]	England	7	8-14	2:5	WS (PT)	Action research, thematic analysis	Good doctors	Hospice	Palliative	Long-term	3
Stevens <i>et al.</i> , 2006[137]	Canada	14	7-16	9:5	INT	Content analysis	Home chemotherapy	Community (home)	Cancer	Long-term	1
Taylor <i>et al.,</i> 2010[138]	England	14	12- 18	~	INT	Framework analysis	Life after transplantation	Non-specific	Liver transplant	Long-term	6
Vejzovic <i>et al.,</i> 2014[139]	Sweden	17	10- 17	5:12	INT	Content analysis	Preparing for colonoscopy	Hospital	Suspected IBD	Short-term	4
Vindrola-Padros, 2012[140]	Argentina	10	8-16	5:5	INT (PT)	Narrative analysis	Living with cancer	Non-specific	Cancer	Long-term	4
Wangmo et al., 2016[141]	Switzerland	17	9-17	11:6	INT	Qualitative	Cancer services and treatment	Hospital	Cancer	Long-term	5
Watson <i>et al.</i> , 2009[142]	US	9	14- 18	7:1:1#	INT	Grounded theory	Accessing CAMHS & mental illness	Non-specific	Mental health illness	Long-term	1
Wen <i>et al.,</i> 2013[143]§	Singapore	203	4-18	~	INT, OBS	Thematic analysis	Pain	Non-specific	Surgical (post-op)	Non-specific	15
Wise. 2002[144]	US	9	7-15	~	INT (PT)	Hermeneutic phenomenology	Transplantation	Non-specific	Liver transplant	Long-term	7
Wong <i>et al.</i> , 2012[145]	China	79	10- 13	54:25	FG	Qualitative	Weight-loss program	Community (school)	Obesity	Long-term	1
Woodgate, 2008[146]	Canada	13	9-17	7:6	INT	Constant comparison analysis	Cancer symptoms	Non-specific	Cancer	Long-term	1
Wray et al., 2018[147]	England	543	8-16	~	INT, FG, Q	Framework Analysis	Healthcare	Hospital	~	~	5
Xie <i>et al.</i> , 2016[148]	China	21	7-12	12:9	INT	Content Analysis	Lumbar puncture	Hospital	ALL	Short-term	15
Young et al., 2003[149]	England	13	8-17	8:5	INT	Constant comparison analysis	Communicating	Hospital	Cancer	Long-term	7



Non-specific, not focusing on a certain type or area; ALL, acute lymphoblastic leukaemia; ASD, autism spectrum disorder; CAMHS, child and adolescent mental health service; HIV, human immunodeficiency virus; IDB, inflammatory bowel disease; SARS, severe acute respiratory syndrome; T1DM, type 1 diabetes mellitus. FG, focus groups; FTQ, free-text questionnaires; INT, interviews; OBS, observations; PT, participatory techniques employed; PTD, photo talk diaries; Q, quantitative questionnaires; WS, workshops; WT, writings; ~, unable to ascertain; *, numerical inconsistency detected in source article; +, same study with different quotations er review only presented; §, qualitative systematic review; #, non-binary gender.

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5 6 7	279	Children's and adolescents' experiences
8 9	280	Six-hundred and sixty-nine quotations referred to CADs' experiences of HCPs, most of whom
10 11	281	were doctors or nurses. CADs also spoke about their experiences with counsellors,
12 13 14	282	psychologists, social workers, and dentists. CADs' ages (available for 397 quotations), ranged
15 16	283	from 5-18 years (average 13); male and female participants were equally represented (see
17 18	284	supplementary file 5). All quotations extracted are available at doi:10.5061/dryad.z08kprrc2;
19 20 21	285	quotations presented below are cited in online supplementary file 6.
22 23	286	CADs' favourable experiences were of HCPs forming trusting relationships and involving them in
24 25	287	healthcare discussions and decisions and their unfavourable experiences were generally towards
26 27 28	288	the opposite pole.
29 30 31	289	Forming trusting relationships
32 33 34	290	Their nature
35 36 27	291	Being in a trusting relationship was feeling a 'bond', having an 'emotional attachment', or having
37 38 39	292	a 'best friend'. CADs and HCPs knew each other, could 'relate to' each other, and really
40 41	293	understood each other. There was openness, transparency, and there was trust. CADs trusted in
42 43	294	HCPs to provide 'good care', knowing they would do everything necessary, and do it right.
44 45 46 47	295	Their origins
48 49	296	At first, HCPs were 'strangers'; CADs did not know the HCPs, who they were, and how they were.
50 51	297	HCPs, likewise, did not know CADs, their histories, or their personalities. Repeated contact and
52 53 54	298	dialogue built and reinforced relationships: 'As time passed, [] we created that bond.'
55 56 57	299	HCPs engendered trusting relationships by demonstrating positive attributes, including being
57 58 59 60	300	able to empathise. CADs trusted in HCPs who were 'very smart', 'experienced', '[knew] what to
		22

do', '[took] care', and did 'everything the best they [could]'. They trusted HCPs who were
'truthful', '100% with you', and 'just [told] you straight up.' Such HCPs did 'not tell children any
lies'; 'nothing [was] hidden'. CADs built trusting relationships with HCPs who were 'really nice',
'nurturing, caring, and helpful people who [were] there for you', and had a 'good sense of
[humour]'.

HCPs related to CADs by understanding them: 'she knew what I was talking about, she knew
what I was feeling, she knew how I was feeling.' HCPs 'took time to get to know' CADs and had
'real conversations, not just [HCP]-patient discussions', in which they shared experiences and
got to know each other personally. CADs could better relate to HCPs who were 'down to earth'
and had 'a lot in common'.

311 Their effects

Trust was vital: 'you gotta have trust.' Trusting relationships improved CADs' healthcare experiences by promoting positive emotions. CADs felt 'satisfied' and 'happy'. They enjoyed their time with HCPs and had 'good memories'. CADs were more able to 'open up' or 'tell anything' to HCPs whom they trusted. Trusting relationships gave CADs hope that HCPs could 'cure [the] illness' or help lessen the pain. CADs who trusted HCPs submitted themselves more willingly to recommended treatments: 'whatever happens I let them [HCPs] do what they have to do to help me get better.' And they consciously chose to remain with or seek out HCPs they trusted. CADs admired trustworthy HCPs: 'individually [they're] all heroes.' And they aspired to be like them: 'Because you can save people [...] I'm going to be a children's doctor.'

321 Being involved in healthcare discussions and decisions

322 The nature of involvement

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323 CADs who were fully involved in healthcare discussions felt they knew everything; 'everything
324 [was] always clear' to them. They had a seat at the table to discuss issues that affected them and
325 felt acknowledged as key stakeholders. CADs worked 'together' with HCPs and parents; they felt
326 as though they were respected, taken 'seriously', and treated 'as an equal'.

327 Its origins

328 HCPs involved CADs by including them in conversations, sharing information, providing 329 opportunities to ask questions, taking time to answer, and listening to their wider needs and 330 preferences. HCPs who promoted involvement used simple words, communicated in a timely 331 way, gave accurate information at the right pace, and explained things so that CADs understood. 332 These HCPs brought CADs 'into all the conversations' by talking to CADs 'as much as they [talked 333 to the] parents'. Parents facilitated CADs' involvement in the presence of HCPs or afterwards by 334 '[breaking] the words down in an easier explanation'. HCPs promoted participation by 'listening' 335 to and respecting CADs' requests: 'I tell them I don't want this and they ... understand'. For more 336 complex decisions, CADs took a joint approach: 'me because I know my own body, my parents 337 because they know what's best for me [...] and the paediatrician because they are qualified.'

338 Its effects

GADs viewed involvement as 'most important, as in the end it is about [them]'. CADs enjoyed
being involved; it was 'brilliant', and they looked forward to their next visit. CADs were more
satisfied with healthcare; they found it 'interesting and informational'. Getting to 'learn
something new' made them feel 'comfortable and confident'. CADs could 'make better
decisions' because they were 'fully informed'. This promoted self-advocacy and self-efficacy:
'I'm asking the doctor more questions myself than having my Dad do it.'

Not forming trusting relationships or being involved

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CADs described unfavourable experiences, which broadly *mirrored* favourable ones. For instance, trust was undermined by HCPs getting things wrong, being 'nasty', and not '[seeming] that concerned'. HCPs being unfamiliar to CADs because they were 'too busy' or because HCPs or CADs moved to other services prevented trusting relationships forming. HCPs excluded CADs by using 'big words', speaking too fast, or telling them nothing, so that CADs could not understand. HCPs neglecting to ask CADs or asking in a tokenistic way prevented them 'having a say': 'they [HCPs] might ask me "is that ok" [...] in such a way that I kind of feel like I don't have any other option but [to] agree with them'. HCPs and parents side-lined CADs by talking behind the curtains so CADs could not hear or sticking them 'in the middle' of a conversation where they could not interrupt. Some parents told CADs to keep quiet or dominated conversations: 'you try to say something but then your parents just say shhhhh! [...] They come out and say, [...] did you understand that, you say no, they say, you should have asked them, and then you say, oh you didn't let me, they say rubbish!' Not trusting people or understanding what was happening made CADs fearful. HCPs who made CADs feel 'rejected' and objectified, 'like a piece of machinery', enraged them. CADs found it 'hard to talk', disengaged in conversations, and left the talking to their parents. Not trusting in HCPs or being uninvolved meant some CADs hated hospital or clinic, they objected to attending, and sought information or guidance from other sources. Stakeholder consultations Two CAD inpatients participated in each of two focus groups (3 females and 1 male, aged 11-15 years) lasting 67 and 93 minutes respectively. Their medical conditions included type 1 diabetes,

367 coeliac disease, spina bifida, and spinal/brain surgery. No parents attended. Three authors (GD,

368 AT, & RC) attended both consultations and a hospital play specialist attended the first

369 consultation. Participants identified with the provisional findings and elaborated on them (table

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4 5 6	370	4). All wanted some degree of involvement in their own care though the amount of information
7 8	371	and level of participation they wanted depended on their age, what was being discussed, and
$ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 22 \\ 23 \\ 24 \\ 25 \\ 26 \\ 27 \\ 28 \\ 29 \\ 30 \\ 31 \\ 32 \\ 33 \\ 45 \\ 36 \\ 37 \\ 38 \\ 9 \\ 41 \\ 42 \\ 44 \\ 45 \\ 46 \\ 47 \\ 48 \\ 9 \\ 51 \\ 52 \\ 54 \\ 55 \\ 56 \\ 57 $	371	and level of participation they wanted depended on their age, what was being discussed, and individual preferences. Box 3 offers take-home messages for HCPs.
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Table 4 Stakeholder findings: Focus group participants' experiences mapped to overarching themes

Overarching themes	Forming trusting relationships	Being involved in healthcare discussions and decisions
Favourable experiences	Rachel, a young girl with diabetes, described having a very good relationship with the diabetic team and ward staff: 'Hm, it's just the nurses really like nice. Like, the first night I was staying over they were staying it's a sleepover and stuff.' (Rachel, FG1, line 746 & 747) She acknowledged how continuity of care helped her become more familiar with the staff: 'they're always in the clinic when I am there'. (Rachel, FG1, line 678) She commented on how the diabetic team got to know her, by chatting casually and taking an interest in her wider life: 'they like asked me what school I'm going to this year' and about 'my baby sister and stuff'. (Rachel, FG1, line 815-819) Participants experienced some HCPs as being easier to talk to than others. Rachel felt that she could talk to the diabetic team: '[] I can talk to them more 'cos you know them.' (Rachel, FG1, line 621) From the perspective of Laura, a young girl with a recent diagnosis of diabetes, a caring nature was an important factor: '[HCPs who] make you feel as if they care [were easier to talk to]'. (Laura, FG2, line 432)	Laura was well informed by her hospital consultant, who had seen her when she was first diagnosed of diabetes: 'My consultant like came the day before [] and he explained the whole thing in detail.' (Lau FG2, line) Laura's experience of being well informed resembled Rachel's: 'The doctor like normally tell everything that I need to know anyway and they put it in like ways that I like, know.' (Rachel, FG1, line 658) Sarah, an adolescent with spina bifida and scoliosis, felt she had some control over her treatment: 'U might have to get the surgery on my back, because I've got scoliosis, em, so if it gets like really, it's no bad but if it gets worse I have to have surgery so I feel as if I have like a choice because I don't have to it, and I don't want it. [] I don't want to have it.' (Sarah, FG2, line 743-748) Although all participants wanted to be informed, the oldest participant, Darren, a young boy with spibifida and epilepsy, preferred his parents to ask and answer questions, and doctors to make decision: behalf: 'GD: Do you ever have any questions [Darren]? Darren: Ahdon't think so. AT: Are you happy for your parents to ask the questions? Darren: Yeah. AT: And you just listen?
Unfavourable experiences	Sarah found it difficult to trust HCPs who were uncaring: 'Well yesterday I had to get a line [cannula] in and there was four different doctors that tried [] and I thought like the doctors didn't really care, they were just gonna get it in, they didn't really care what I was thinking. [] Well I know they needed to do it. But they didn't care, [] they didn't care if they hurt me.' (Sarah, FG2, line 438-441 & 512)	Durren: rean (smining and idagning): (Verbatim excerpt, FG1, inte 353-360) During her cannulation experience, Sarah felt angry because HCPs failed to grant her wishes: 'I alway them to put it, try my feet first because I don't have any feeling in my feet [] I told the doctor not to in there and they still did it. [] I was really cross after it because I thought all that pain.' (Sarah, FG2, 460-465) Sarah spoke about feeling excluded when a doctor spoke discretely to her mother: 'No but it does hay to people like they feel they're left out. [] Today, [] a doctor was explaining something to me and h just about to leave and when he was just about to leave he said to my mum, "If you want to ask a que can come back" so I kind of thought is he doing that because he doesn't want me to hear my mother of the question.' (Sarah, FG2, line 612 & 619-622)
374 Note:	Rachel, Laura, Sarah, and Darren are pseudonyms (participants aged 11-15 years)	
375 27		
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2 3 4		
5 6 7	376	Box 3 Take-home messages for HCPs
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		 Focus group participants provided take-home messages about how HCPs, could deliver high-quality child-centred care: <i>'Explain.'</i> (Laura, FG2, line 409) <i>'Explain it in a child friendly way.'</i> (Sarah, FG2, line 411) <i>'Because if the child is really young it has to be explained in a different way. At an age you're able to understand [or HCPs will] scare them.'</i> (Sarah, FG2, line 658-663) <i>'They should explain what they are going to do before they do it, and like [] always say who they are and what they're gonna do [] [and at] what time [], and explain what was gonna happen and why [].' (Rachel, FG1, line 498-510)</i> <i>'I think just tell everyone together. [] Because like telling your mum and dad first you'll see the expression on their face and then you're already gonna know.'</i> (Laura, FG2, line 651-654) <i>'Always like ask [children] do you have any questions [] ask [to check understanding].'</i> (Sarah, FG2, line 388 & 416-417) <i>'Whenever [children] come in, try and treat them like nicer, em.'</i> (Darren, FG1, line 992) <i>'Like treat them the same as everybody else so they all feel the same '</i> (Bachel)
26		FG1, line 993)
27 28	377	Note: Rachel, Laura, Sarah, and Darren are pseudonyms (participants aged 11-15 years)
 29 30 31 32 33 34 35 36 37 38 39 40 41 	378	DISCUSSION
	379	CADs' experiences were influenced by HCPs forming relationships and involving them:
	380	engendering trust and involving CADs satisfied them, made them happier when undergoing
	381	procedures and treatments, and better able to confide. HCPs did this by being personable, wise,
	382	and sincere, relating at a personal level, bringing CADs into conversations and decisions, and
42 43	383	speaking in child-friendly ways. Conversely, not relating to or involving CADs, communicating
44 45	384	ineffectively by using inappropriately technical language or positioning CADs as 'piggy-in-the-
46 47	385	middle' between HCPs and parents resulted in CADs being fearful, angry, resistant, and
48 49 50 51 52 53 54 55	386	disengaged.
	387	These findings add to earlier studies, which identified intimate relationships,[77,110,150]
	388	trust,[77] and involvement,[47,151] as important ingredients of caring well for CADs. They
56 57	389	corroborate a recent systematic review of decision-making experiences, which found that HCPs
58 59	390	(and parents) made adolescents feel fearful, anxious, and depersonalised when they withheld
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5 6	391	information or denied involvement.[151] Parents had a significant influence on HCPs'
7 8	392	experiences in our study too, by facilitating or impeding communication. Overcoming parental
9 10 11	393	primacy, over-involvement, over-protectiveness,[47,77,151] and wish to withhold information
11 12 13	394	remains a substantial challenge for HCPs.[77]
14 15 16	395	Strengths and limitations
17 18 19	396	Our synthesis advances understanding of CADs' experiences of HCPs because of its
20 21	397	comprehensiveness, analysis of interrelationships between the nature, origins, and effects of
22 23	398	trust and involvement, and its advocacy for CADs' autonomy. It provides a blueprint for CCC,
24 25	399	which has, until now, largely depended on theory and expert consensus rather than empirical
26 27 28	400	evidence.[8] Our findings endorse the concept and importance of CCC, whilst showing how
29 30	401	much work is needed to put this principle into practice. Our review was innovative in the way it
31 32	402	used phenomenology, a theory that is highly relevant to the topic, to inform a rigorous
33 34	403	interpretive synthesis. This allows us to go beyond cataloguing publications and draw empirically
35 36 37	404	supported conclusions about how HCPs could care more effectively for CADs. This, we suggest, is
38 39 40	405	a significant contribution to the scholarship of evidence synthesis.
41 42	406	As with most qualitative syntheses, we present a broad overview, whose findings are potentially
43 44	407	transferable across a range of clinical contexts. We took an iterative approach to article
45 46	408	selection and ensured adequate time for rigorous interpretive analysis; while some evidence
47 48 40	409	may have been published since we searched the databases, this is an inherent limitation in
50 51	410	research that goes to such lengths to analyse a huge evidence-base and synthesise information.
52 53	411	We doubt that this materially affects our conclusions since the nature of human relationships
54 55	412	are unlikely to change in 12 months. Consulting with stakeholders, whilst obviously desirable, is
56 57 58 59 60	413	often omitted from scoping reviews.[152] Our consultation sample was admittedly small and

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414 relatively homogenous, but participants spoke informatively about their experiences, which415 helped consolidate and authenticate the findings.

Our conclusions are susceptible to both publication and interpretation bias because more
emotive material tends to attract greater attention. This limitation is partially offset by our
rigorous adherence to methodological standards. Another limitation, imposed by the nonspecific nature of studies and inexplicit reporting of metadata by primary authors, is that we
could not analyse how different types of HCP, or participants' ages or illnesses, affected CADs'
experiences. Restricting the scope to English language publications excluded non-English
speaking children from distinct cultural groups.[40] This is an important topic for future study.

7 423 Implications for policy, research, and practice

424Our findings add impetus to the movement to design, deliver, and further characterise child-425centred healthcare which has important implications for HCPs, educators, researchers, and426policymakers.[153] Our empirical augmentation of this conceptual model supports these427initiatives. To achieve the vision of CCC, there is a need for communication strategies, training,428assessments, and feedback (from CADs, specifically) at both the undergraduate and429postgraduate levels of health professions education. Further research will be needed to address430the long-term sustainability and effectiveness of CCC. Evidence on how healthcare policy,431practice, and legislation can influence child-centred approaches is long overdue. Further432research could also examine how age, illness, gender, and the cultures of different professions433influence the drive for CCC. Further implications for practice include the need for HCPs to434consider how best to respect CADs' preferences when it goes against 'best practice'.436ABBREVIATIONS

2 3		
4 5 6	437	CADs- Children and adolescents
7 8 9	438	CCC- Child-centred care
10 11 12	439	CINAHL- Cumulative Index to Nursing and Allied Health Literature
13 14 15	440	FCC- Family-centred care
16 17 18	441	HCPs- Healthcare professionals
19 20 21	442	PCC- Patient-centred care
22 23 24	443	RBHSC- Royal Belfast Hospital for Sick Children
25 26 27	444	DECLARATIONS
28 29 30	445	Ethics approval and consent to participate
31 32	446	Ethical approval for focus groups was obtained from the Office for Research Ethics Committees
33 34	447	Northern Ireland (reference: 19/NI/0070), while research governance was obtained from the
35 36 37	448	Belfast Health and Social Care Trust, Northern Ireland.
38 39 40	449	Consent for publication
41 42 43	450	Consent for publication was gained.
44 45 46	451	Availability of data and materials
47 48 49	452	All data are available in this article, or supplementary materials and open access repositories.
50 51 52	453	Supplementary materials
53 54 55	454	The content has been supplied by the authors.
56 57 58	455	Competing interests
59	456	None declared.
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5 6 7 8 9 10 11 12 13 14 15 16 7 8 9 10 11 12 13 14 15 16 7 22 23 24 25 26 27 28 29 30 31 32 33 4 35 36 7 38 9 40	457	Funding
	458	This work was supported by the Royal Belfast Hospital for Sick Children, Charitable Funds
	459	Department, by award of a Research Fellowship, grant number 71817005. Funders had no direct
	460	involvement with conceptualisation or completion. Queen's University Belfast (QUB) sponsored
	461	the study in accordance with the UK Policy Framework for Health and Social Care.
	462	Authors' contributions
	463	GD conceived the review, sought approvals, secured funding, led the execution, and led the
	464	write-up. GD, AT & RC completed the focus groups. MK, RC, AT & TD assisted with data
	465	selection, analyses, and manuscript revision. All authors read and approved the final manuscript.
	466	Acknowledgements
	467	The authors would like to acknowledge Richard Fallis, for his assistance with the search strategy,
	468	Richard McCrory, for his advice in the early stages of this review, and Jenne McDonald, for
	469	attending the first stakeholder consultation.
	470	Authors' information
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48 49 50	474	MK is a General Practitioner, Associate Professor and Director of undergraduate Family
51 52	475	Medicine at The University of Calgary.
53 54 55 56 57 58	476	RC is a post-doctoral Clinical Academic Lecturer at QUB and a Paediatric Registrar.
	477	AT is a Paediatric Consultant in RBHSC.
59 60	478	TD is a Professor of Medical Education at QUB. 32

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42 43	870	FIGUR	E CAPTIONS
44 45 46	871	Figure	1 PRISMA flow diagram
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Additional records Records identified through Additional records identified through database searching known to authors hand searching Ovid MEDLINE (n=349) (n=1) reference lists EMBASE (n=407) (n=172) Web of Science (n=320) dentification Scopus (n=665) CINAHL Plus (n=160) Records after duplicates removed (n=1359) Records excluded (n=1015): Parent participants (n=405) **Records screened** Professional participants/commentaries (n=1359) (n=196) Adult patient participants (n=177) Not healthcare (n=82) Screening Parent & professional participants (n=67) Adult & CAD patient participants (n=34) Secondary child experience (n=18) Not experience (n=18) Quantitative findings only (no quotes) (n=7) Sibling participants (n=4) Other (n=7) Articles excluded (n=245): Articles reviewed by Non-quotation format or experience of full-text and assessed for other healthcare elements (n=118) eligibility Adult & CAD participants (n=25) (n = 344) **Eligibilit** Parent participants (n=22) Not healthcare (n=19) Professional participants (n=18) Not experience (n=15) Adult participants (n=14) Parent & professional participants (n=9) Other (n=5) Included Studies included (n = 99)

Note 'Other' (n=12) reasons for excluding records/articles included: participants' ages unclear (n=4); no full-text available or unobtainable in English (n=7); same study as included article (n=1).

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PRISMA-ScR Checklist

This supplementary information includes the Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR) Checklist (1).

SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED ON PAGE # (untracked version)					
TITLE	TITLE							
Title	1	Identify the report as a scoping review.	p.1					
ABSTRACT								
Structured summary	2	Provide a structured summary that includes (as applicable): background, objectives, eligibility criteria, sources of evidence, charting methods, results, and conclusions that relate to the review questions and objectives.	p.3-4, background not required in abstract as per journal guidance					
INTRODUCTION								
Rationale	3	Describe the rationale for the review in the context of what is already known. Explain why the review questions/objectives lend themselves to a scoping review approach.	p.6-8					
Objectives	4	Provide an explicit statement of the questions and objectives being addressed with reference to their key elements (e.g., population or participants, concepts, and context) or other relevant key elements used to conceptualize the review questions and/or objectives.	p.8 & 9					
METHODS								
Protocol and registration	5	Indicate whether a review protocol exists; state if and where it can be accessed (e.g., a Web address); and if available, provide registration information, including the registration number.	p.9 and reference list. Not registered.					
Eligibility criteria	6	Specify characteristics of the sources of evidence used as eligibility criteria (e.g., years considered, language, and publication status), and provide a rationale.	p.9-12 (Table 2)					
Information sources*	7	Describe all information sources in the search (e.g., databases with dates of coverage and contact with authors to identify additional sources), as well as the date the most recent search was executed.	p. 9 & 10 (Table 1)					
Search	8	Present the full electronic search strategy for at least 1 database, including any limits used, such that it could be repeated.	p. 9 & 10, Supp file 2					
Selection of sources of evidence†	9	State the process for selecting sources of evidence (i.e., screening and eligibility) included in the scoping review.	p. 10 & 11					
Data charting process‡	10	Describe the methods of charting data from the included sources of evidence (e.g., calibrated forms or forms that have been tested by the team before their use, and whether data charting was done independently or in duplicate) and any processes for obtaining and confirming data from investigators.	p. 13 (box 2)					
Data items	11	List and define all variables for which data were	р. 13					



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SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED ON PAGE # (untracked version)
		sought and any assumptions and simplifications made.	
Critical appraisal of individual sources of evidence§	12	If done, provide a rationale for conducting a critical appraisal of included sources of evidence; describe the methods used and how this information was used in any data synthesis (if appropriate).	Critical appraisal not done. Rationale on p.11
Synthesis of results	13	Describe the methods of handling and summarizing the data that were charted.	p. 13-15
RESULTS			
Selection of sources of evidence	14	Give numbers of sources of evidence screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally using a flow diagram.	p. 15 (Figure 1)
Characteristics of sources of evidence	15	For each source of evidence, present characteristics for which data were charted and provide the citations.	p. 15 (Table 2)
Critical appraisal within sources of evidence	16	If done, present data on critical appraisal of included sources of evidence (see item 12).	N/A
Results of individual sources of evidence	17	For each included source of evidence, present the relevant data that were charted that relate to the review questions and objectives.	p. 15 (Table 2) & Dryad data
Synthesis of results	18	Summarize and/or present the charting results as they relate to the review questions and objectives.	p. 15, 16, 23-26, & supp file 4.
DISCUSSION			
Summary of evidence	19	Summarize the main results (including an overview of concepts, themes, and types of evidence available), link to the review questions and objectives, and consider the relevance to key groups.	p. 29-30
Limitations	20	Discuss the limitations of the scoping review process.	P. 30-31
Conclusions	21	Provide a general interpretation of the results with respect to the review questions and objectives, as well as potential implications and/or next steps.	p. 31
FUNDING			
Funding	22	Describe sources of funding for the included sources of evidence, as well as sources of funding for the scoping review. Describe the role of the funders of the scoping review.	p. 32

JBI = Joanna Briggs Institute; PRISMA-ScR = Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews.

* Where *sources of evidence* (see second footnote) are compiled from, such as bibliographic databases, social media platforms, and Web sites.

† A more inclusive/heterogeneous term used to account for the different types of evidence or data sources (e.g., quantitative and/or qualitative research, expert opinion, and policy documents) that may be eligible in a scoping review as opposed to only studies. This is not to be confused with *information sources* (see first footnote).
‡ The frameworks by Arksey and O'Malley (6) and Levac and colleagues (7) and the JBI guidance (4, 5) refer to the process of data extraction in a scoping review as data charting.

§ The process of systematically examining research evidence to assess its validity, results, and relevance before using it to inform a decision. This term is used for items 12 and 19 instead of "risk of bias" (which is more applicable



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to systematic reviews of interventions) to include and acknowledge the various sources of evidence that may be used in a scoping review (e.g., quantitative and/or qualitative research, expert opinion, and policy document).

REFERENCE:

1. Tricco AC, Lillie E, Zarin W, O'Brien KK, Colquhoun H, Levac D, et al. PRISMA extension for scoping reviews (PRISMA-ScR): Checklist and explanation. Ann Intern Med. 2018;169(7):467–73. doi: 10.7326/M18-0850.

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MEDLINE search	-
1. health?care.mp.	
2. Hospitals/	
3. Community Mental Health Services/ or Mental Health Services/ or Communit	.y
Health Services/ or Community Health Nursing/	
4. School Health Services/	
5. 1 or 2 or 3 or 4	
6. Stress, Psychological/	
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8. emotion*.mp.	
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10. 6 or 7 or 8 or 9	
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12. limit 11 to "all child (0 to 18 years)"	
13. ((child* or infant* or adolescen* or teen?age* or boy* or girl* or toddler*)	
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first?hand* or their* or say?in or decision* or choice* or choos* or autonomon*	ĸ
or interview* or art or "art* therap*")).mp.	
14. 12 and 13	
15. Qualitative Research/	
16. 14 and 15	

key: mp, multi-purpose search; adj5, search within adjacent 5 words.

_			-
Process	No.	Criteria	Response
Transcription	1	The data have been transcribed to an	Both focus group transcripts
		appropriate level of detail, and the	transcribed to an appropriate
		transcripts have been checked against the	level of detail and checked
		tapes for 'accuracy'	against tapes.
Coding	2	Each data item has been given equal	We reviewed all quotations to
		attention in the coding process	generate coding.
	3	Themes have not been generated from a	Themes, and the findings
		few vivid examples (an anecdotal	described herein, were
		approach), but instead the coding process	developed from a complete
		has been thorough, inclusive and	coding process of the entire
		comprehensive	dataset. The coding process
			was thorough, inclusive and
			comprehensive, as all
			quotations were used to
			generate codes, and develop
		\sim	themes. Each theme was
			developed based on numerous
			codes gathered across a range
			of articles and participants
	4	All relevant extracts for all each theme	
	4	have been collated	res.
	5	Themes have been checked against each	Ves
	5	other and back to the original data set	
	6	Themes are internally coherent.	Yes.
	-	consistent, and distinctive	
Analysis	7	Data have been analysed- interpreted,	Yes, evident from the results.
,		made sense of- rather than just	,
		paraphrased or described	
	8	Analysis and data match each other- the	The analysis and findings from
		extracts illustrate the analytic claims	it closely match the data set.
	9	Analysis tells a convincing and well-	Yes.
		organised story about the data and topic	
	10	A good balance between analytical	Yes. Illustrative extracts have
		narrative and illustrative extracts is	been used within the results
		provided	section.
Overall	11	Enough time has been allocated to	Yes.
		complete all phases of the analysis	
		adequately, without rushing a phase or	
		giving it a once-over-lightly	
Written	12	The assumptions about, and specific	Yes, stated in the methods
report		approach to, thematic analysis are clearly	section.
		explicated	
	13	There is good fit between what you claim	Yes.
		you do, and what you show you have	
		done- i.e. described method and reported	
	1	analysis are consistent	

1	14	The language and concepts used in the report are consistent with the	Yes.
		epistemological position of the analysis	
1	15	The researcher is positioned as active in	Yes.
		the research process; themes do not just	
		'emerge'	

REFERENCE:

 Braun V, Clarke V. Successful qualitative research: a practical guide for beginners. London: SAGE Publications Ltd; 2013.

Additional Scoping Review Results: Basic numerical analysis and figures

This supplementary information includes additional findings and graphical illustrations from basic numerical analysis.

Trend in study publications over time

On average, four studies were published each year and the rate of publication rose progressively, increasing to 11 per year in 2018 (as shown in Figure 1).



Figure 1 Years of publications

Countries of origin

Figure 2 illustrates the geographical distribution of included studies on the world map and figure 3 lists countries of origin (n=21) including the number of studies pertaining to each country. Eighty-eight studies originated in western or more developed countries of which the UK (n=26), Canada (n=15), Ireland (n=9), Sweden (n=9), and the United States (n=9) were most common.



Figure 2 Map of geographical distribution of studies

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Figure 3 Number of studies per country



Figure 4 Number of CAD participants per study and age ranges

CAD participants

The number of CAD participants per study and age ranges are illustrated in figure 4. Age ranges varied, however, most studies recruited CAD participants aged 6-17 years. Studies tended to recruit between 8 to 50 participants; seven studies recruited over 100.

Additional participants

Most studies recruited CADs only (n=72). Some studies recruited other participants (n=27); who were parents, HCPs, and teachers (figure 5).



Study methods

Most studies used a single method; interviews were most prevalent, followed by focus groups, freetext questionnaires, and workshops (figure 6). Twenty-nine studies used 2 or 3 methods; commonly, interviews combined with observation or focus groups (figure 7).











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CADs' ages and genders from extracted quotes

Figure 1 illustrates the age distribution of quotations extracted. CADs aged 11-14 were more commonly quoted, while those aged 5-8 years were quoted less. Many quotations referenced CADs' ages (n=379, 56.7%) and genders (n=390, 58.3%); of which 52% were female.



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Figure 1 CAD participant ages, from extracted quotes

Quotations presented in results section

The full quotations extracted from articles are accessible using the Dryad unique identifier <u>https://doi.org/10.5061/dryad.z08kprrc2</u>

Quote		Quote reference (first author,
no.	Quote as written in results section	year, quote no.)
1	'bond'	Ryals, 2011(49)
2	'emotional attachment'	Brown et al., 2014(04)
3	'best friend'	Ryals, 2011(33)
4	'relate to'	Ryals, 2011(32)
5	'good care'	Ångström-Brännström et al., 2008(05)
6	'strangers'	Coyne et al., 2015(02)
7	'As time passed, [] we created that bond.'	Ryals, 2011(29)
8	'very smart'	Coyne et al., 2014(02)
9	'experienced'	Hodgins et al., 1997(02)
10	'[knew] what to do'	Day et al., 2006(04)
11	'[took] care'	Noreña Peña, 2011(21)
12	'everything the best they [could]'	Boyd, 1998(03)
13	'truthful'	Brown et al., 2014(15)
14	100% with you'	Brown et al., 2014(15)
15	'just [told] you straight up.'	Brown et al., 2014(15)
16	'not tell children any lies'	Koller et al., 2010(02)
17	'nothing [was] hidden'	Coyne et al., 2016(01)
18	'really nice'	Clift et al., 2007(06)
19	'nurturing, caring and helpful people who [were] there for you'	Schmidt et al., 2007(01)
20	'good sense of [humour]'	Schmidt et al., 2007(15)
21	'she knew what I was talking about, she knew what I was feeling she knew how I was feeling '	Ryals, 2011(20)
22	'took time to get to know'	Brown et al., 2014(06)
23	'real conversations, not just [HCP]-patient discussions'	Schmidt et al., 2007(31)
24	'down to earth'	Bvals, 2011(45)
25	'a lot in common'	Byals, 2011(22)
26	'vou gotta have trust.'	Byals, 2011(42)
27	'satisfied'	Wangmo et al. 2016(05)
28	'happy'	Corsano et al. 2015(04)
29	'good memories'	Manookian et al. 2014(03)
30	'open un'	Byals 2011(42)
30	'tell anything'	Beresford et al. $2003(06)$
32	'cure [the] illness'	Han et al. 2011(01)
52	'whatever happens Liet them [HCPs] do what they	
33	have to do to help me get hetter '	Boyd & Hunsberger 1998(01)
34	'individually [they're] all heroes '	Anderson et al. $2017(04)$
5.	'Because you can save people [1] I'm going to be a	
35	children's doctor.'	Olausson et al., 2006(01)
36	'everything [was] always clear'	Schalkers et al., 2014(04)
37	'together'	Dell'Api et al., 2007(07)
38	'seriously'	Clift et al., 2007(05)
39	'as an equal'	Clift et al., 2007(05)

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40	'into all the conversations'	Coyne et al., 2011(15)
41	'as much as they [talked to the] parents'	Edgecombe et al., 2010(03)
42	'[breaking] the words down in an easier explanation'	Coyne et al., 2006(13)
43	'listening'	Coyne et al., 2006(03)
44	'I tell them I don't want this and they understand'	Coyne et al., 2006(03)
	'me because I know my own body, my parents	
	because they know what's best for me [] and the	
45	paediatrician because they are qualified.'	Garth et al., 2009(02)
46	'most important, as in the end it is about [them]'	Schalkers et al., 2014(04)
47	'brilliant'	Moules, 2009(01)
48	'interesting and informational'	Lowes et al., 2015(02)
49	'learn something new'	Lowes et al., 2015(03)
50	'comfortable and confident'	Lowes et al., 2015(02)
51	'make better decisions'	Coyne & Kirwan, 2012(23)
52	'fully informed'	Coyne & Kirwan, 2012(23)
	'I'm asking the doctor more questions myself than	
53	having my Dad do it.'	Coyne et al., 2006(15)
54	'nasty'	McPherson et al., 2018(03)
55	'[seeming] that concerned'	Coyne, 2006b(02)
56	'too busy'	Coyne et al., 2006(28)
57	'big words'	Coyne et al., 2006(16)
	'they [HCPs] might ask me "is that ok" and they ask me	
	in such a way that I kind of feel like I don't have any	
58	other option but [to] agree with them'	Coyne et al., 2015(01)
59	'behind the curtains'	Coyne et al., 2011(20)
60	'in the middle'	Coyne et al., 2006(18)
	'you try to say something but then your parents just	
	say shhhhh! [] They come out and say, [] did you	
	understand that, you say no, they say, you should have	
	asked them, and then you say, oh you didn't let me,	
61	they say rubbish!'	Hawthorne et al., 2011(04)
62	(rejected)	Coyne et al., 2006(17)
63	'like a piece of machinery'	Coyne, 2006b(04)
64	'hard to talk'	Anderson et al., 2017(01)

BMJ Open

How do children and adolescents experience healthcare professionals? Scoping review and interpretive synthesis

Journal:	BMJ Open
Manuscript ID	bmjopen-2021-054368.R1
Article Type:	Original research
Date Submitted by the Author:	21-Jun-2021
Complete List of Authors:	Davison, Gail; Queen's University Belfast, Centre for Medical Education; Royal Belfast Hospital for Sick Children, Children's Emergency Department Kelly, Martina; University of Calgary Faculty of Medicine, DEPARTMENT OF FAMILY MEDICINE Conn, Richard; Queen's University Belfast; Royal Belfast Hospital for Sick Children, General Paediatrics Thompson, Andrew; Royal Belfast Hospital for Sick Children, General Paediatrics Department Dornan, T; Queen's University Belfast,
Primary Subject Heading :	Qualitative research
Secondary Subject Heading:	Paediatrics, Communication, Ethics, Patient-centred medicine
Keywords:	PAEDIATRICS, Quality in health care < HEALTH SERVICES ADMINISTRATION & MANAGEMENT, QUALITATIVE RESEARCH

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4 5	23	Andrew Thompson, <u>andrew.thompson@belfasttrust.hscni.net</u> , 00447879410712 (phone), no fax	
6 7 8	24	available, orcid ID 0000-0003-4177-4136	
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Explore children's and adolescents' (CADs') lived experiences of healthcare professionals (HCPs).

Scoping review methodology provided a six-step framework to, first, identify and organise

an interpretive synthesis of the life-worlds of CADs receiving healthcare, as represented by

Five key databases (Ovid MEDLINE, Embase, Scopus, CINAHL Plus, and Web of Science), from

inception through to January 2019, reference lists, and opportunistically identified publications.

Research articles containing direct first-person quotations by CADs (aged 0-18 years inclusive)

Tabulation of study characteristics, contextual information, and verbatim extraction of all

research team worked reflexively and collaboratively to interpret the qualitative data and

we held two focus groups with CAD inpatients in a children's hospital.

'relevant' (as defined above) direct quotations. Analysis of basic scope of the evidence-base. The

construct a synthesis of children's experiences. To consolidate and elaborate the interpretation,

existing evidence. Interpretive phenomenology provided methodological principles for, second,

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ABSTRACT

Objective

Design

Data Sources

Eligibility criteria

verbatim accounts of their experiences.

describing how they experienced HCPs.

Data extraction and synthesis

3		

Results

4 5	50	669 quotations from 99 studies described CADs' experiences of HCPs. Favourable experiences			
6 7 8	51	were of forming trusting relationships and being involved in healthcare discussions and			
9 10	52	decisions; less favourable experiences were of not relating to or being unable to trust HCPs			
11 12	53	and/or being excluded from conversations about them. HCPs fostered trusting relationships by			
13 14	54	being personable, wise, sincere, and relatable. HCPs made CADs feel involved by including them			
15 16 17	55	in conversations, explaining medical information, and listening to CADs' wider needs and			
18 19	56	preferences.			
20 21 22	57	Conclusion			
23 24 25	58	These findings strengthen the case for making CADs partners in healthcare despite their youth.			
26 27	59	We propose that a criterion for high-quality child-centred healthcare should be that HCPs			
28 29	60	communicate in ways that engender trust and involvement.			
30 31 32 33	61	STRENGTHS AND LIMITATIONS OF THIS STUDY			
34 35	62	Our findings have advanced current evidence by providing a comprehensive overview of			
36 37	63	CADs' experiences of HCPs, while providing a blueprint for the child-centred care			
38 39	64	conceptual model.			
40 41 42	65	• In addition to completing a scoping review in line with a published protocol, this article			
43 44	66	reports an interpretive phenomenological synthesis of the evidence-base			
45 46	67	Restricting included articles to the English language limited the scope of our review			
47 48 49	68	• Limitations in the metadata provided by primary researchers prevented subgroup			
50 51	69	analyses			
52 53	70	• The subjectivity of interpretive synthesis is both a limitation and a strength: a limitation,			
54 55	71	because it does not meet quantitative, experimental standards of proof; and a strength			
56 57 58	72	because we used our subject position as clinicians to help fellow clinicians earn the trust			
59 60	73	of CADs.			
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74 BACKGROUND

75 Children's experiences, like patients' experiences in general, are of fundamental importance in 76 healthcare.[1-3] Research consistently shows that favourable experiences are associated with a 77 wide range of positive health outcomes, including adherence to recommended treatments, 78 uptake of preventive care, and utilisation of healthcare resources.[3] Exploring, understanding, 79 and adapting to patients' experiences, particularly those concerning interpersonal 80 communication, is the hallmark of patient-centred care (PCC), which is what patients 'strongly 81 want'.[4,5] Accordingly, PCC has become the dominant ideology in healthcare design and 82 delivery.[6] In the case of children, however, it has proven more difficult to establish a model of PCC. 83 84 Children and adolescents (CADs) are distinct from adults; they are developing physically, 85 intellectually, and emotionally, and they occupy different positions in society and by law.[7] 86 CADs, therefore, typically experience healthcare as part of a family unit, accompanied by

87 parents or guardians who often act on their behalf. These factors affect the roles that CADs

88 occupy within healthcare settings – how they interact and communicate with others – and

89 predispose them to asymmetric relationships with adults. To address this, two specific
90 theoretical models of care – family-centred care (FCC) and child-centred care (CCC) – have been

91 developed for use in paediatric practice, based on the principles of PCC but incorporating

92 modified conceptualisations of centredness.[8]

93 In FCC, the family is the central unit of care, with the aspiration of an equal partnership between
94 healthcare professionals (HCPs) and families. FCC, which first originated in the 1950s, was an
95 important conceptual advance because, up to this point, no framework existed to involve
96 parents in their children's care.[7] Recent research shows, however, that even within the FCC
97 framework, parents and professionals tend to predominate and CADs struggle to be true
98 participants.[9] In contrast, the newer concept of CCC situates CADs at the centre of healthcare
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4 5 6 7 8 9 10 11 12 13	99	practice, giving primacy to their voices and experiences. Rather than being guided by outsider
	100	perspectives of children's best interests, CCC compels HCPs to consciously perceive and
	101	understand children's conditions, experiences, and priorities, as viewed through their
	102	eyes:[8,10,11]
14 15	103	"[CCC] requires providers to critically consider the child's
16 17	104	perspective in every situation while ensuring collaboration
18 19	105	with the family who the [child] is part of."[8]
20		
21 22	106	While aspects of FCC and CCC may be pertinent in different clinical contexts,[12] experts now
23 24 25	107	advocate a move towards CCC,[13] arguing that it better upholds values laid down by the UN
25 26 27 28 29 30 31 32	108	Convention on the Rights of the Child and governing bodies (such as the General Medical
	109	Council),[14,15] and could improve how CADs experience healthcare.[8,13]
	110	Adopting the CCC approach, however, requires a major shift in thinking and practice. Research
33 34	111	suggests that HCPs' realities are incompatible with CADs', with HCPs focused on prioritizing
35 36 37	112	tasks, 'getting the job done', and mitigating, rather than engaging with, CADs' demands.[16]
38 39	113	Furthermore, HCPs' communication strategies adopted for consulting CADs are largely
40 41	114	underpinned and conceptualized by biomedical or psychosocial models, from the clinical
42 43	115	gaze,[17] with little or no input from CADs.[18,19] And while CADs' healthcare experiences
44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	116	overall are generally positive, large-scale studies have identified shortcomings in how HCPs
	117	interact and communicate, [20–22] impacting on CADs' ability to manage their conditions and
	118	participate in decision-making.[23] HCPs, too, continue to find communicating with CADs
	119	challenging, supporting a change in thinking and practice.[19]
	120	To achieve the vision of CCC, then, HCPs need greater insight into the experiences of sick
	121	children.[11] This reflects a wider drive towards co-production (providers and service users
	122	working in equal partnership to effect change) in children's healthcare;[24,25] and also
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5	123	complements the present impetus to acknowledge and examine CADs' own experiences,
7 8 9 10	124	opinions, and priorities, within research, [26,27] quality improvement, [28–30] and standard
	125	setting.[31] To date, however, most research and surveys examining experiences in paediatric
11 12	126	settings have relied on parents' accounts, while CADs have participated less, if at all.[32]
13 14	127	Nevertheless, the few studies that have explored CADs' own experiential accounts have found
15 16 17	128	them to be informative and distinct from parents'.[23,33] At present, these accounts are widely
17 18 19	129	dispersed, yet if compiled, synthesised, and interpreted, these could provide a rich account of
20 21	130	CADs' lived experiences of how they encounter HCPs.
22 23 24	131	This study aimed to explore how CADs experience HCPs within interpersonal interactions, in
25 26	132	order to provide practitioners, organisations, and policymakers with evidence that could
27 28 29 30 31	133	promote child-centred communication. First, we conducted a scoping literature review to
	134	systematically gather evidence on CADs' experiences of HCPs. Second, we interpreted CADs'
32 33	135	extracted quotations from the perspective of phenomenology. This well-established
34 35	136	methodological tradition, grounded in philosophy, enables researchers to produce valid
36 37 28	137	interpretations by examining and interpreting participants' verbatim accounts of their lived
30 39 40	138	experience.[34] Finally, we organised the interpretation into a synthetic account of how CADs
41 42	139	experience their interactions with HCPs.
43 44	140	METHODS
45 46	141	Methodological orientation
47 48 49 50 51 52 53	142	Scoping review methodology has a pragmatic orientation in the sense that it sets out to map
	143	existing published evidence on a topic but it is adaptable in the sense that the usefulness of its
	144	procedures is not tied to any one specific epistemology (theory of the nature of knowledge).[35-
54 55	145	37] As in our previously published research, [38] this review augments scoping review
56 57 58	146	procedures with interpretive phenomenology. The latter has an ontology (theory of the nature
59	147	of being) derived from the philosophy of Husserl, according to which the lived experience of

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4 5 7 8 9 10 11 12 13 14	148	research participants is a legitimate topic of qualitative inquiry. Interpretive phenomenology
	149	helps researchers respond reflexively to spoken or written words and arrive at valid, subjective
	150	interpretations. Phenomenologists typically take a reflexive stance that consciously sets aside
	151	strong a priori preconceptions whilst allowing their own experiences (such as, in our case, having
	152	experience of caring for sick children) to help them construct an informative interpretation.[34]
16 17	153	The quality of a constructivist interpretation is to be judged by its trustworthiness, authenticity,
18 19	154	and ability to catalyse action – which, in this case, would be to improve future children's
20 21 22	155	healthcare experiences.[39]
22 23 24	156	Study procedures
25 26	157	The research followed a published protocol (accessible at <u>https://rdcu.be/b2FFk</u>),[40] which
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	158	proposed to supplement traditional scoping review procedures with an interpretive synthesis,
	159	the distinction between which is explained in the previous paragraph. The scoping component
	160	followed the 6-step framework outlined by Arksey & O'Malley,[35] Levac et al.,[36] and
	161	Colquhoun et al.,[37] adhering to PRISMA-ScR reporting guidance (included in online
	162	supplementary file 1).[41]
	163	Step 1: Defining the research question
	164	This was: 'What is known about children's and adolescents' experiences of healthcare
43 44 45	165	professionals, from their present perspective?', the final phrase emphasizing our commitment to
45 46 47 48 49 50 51 52 53 54 55 56 57 58	166	CADs' contemporaneous accounts of their experiences expressed in their own words, rather
	167	than parents' descriptions or adults describing childhood memories.
	168	Step 2: Identifying relevant articles
	169	We designed a STARLITE search strategy (summarised in table 1) to identify all published articles
	170	containing CADs' experiences of HCPs expressed as first-person direct quotations.[42] A subject
59 60	171	librarian constructed a database search (included in online supplementary file 2), using the
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> 172 population, context, and concept framework, [43] combining the terms 'children' or

'adolescents', 'healthcare', and 'experience' (and synonyms), limiting it to English language 173

174 articles, 'qualitative research', and '0 to 18 years', and then running it on Ovid MEDLINE,

175 Embase, Scopus, CINAHL Plus, and Web of Science from inception to 11th January 2019. We

176 included other articles found by searching relevant reference lists or found opportunistically.

Table 1 STARLITE summary of search strategy[42]			
Sampling strategy	Comprehensive: attempting to identify all published materials		
Types of studies	Any published study contributing to the research question:		
	qualitative (with or without other methodologies (i.e., mixed		
	method)); primary or secondary sources		
Approaches	Electronic database searching; manual searching of reference lists;		
	articles found opportunistically		
Range of years	From database inception until 11 th January 2019		
Limits	Articles published in English language; 'qualitative research';		
	children aged 0-18 years (inclusive)		
Inclusion and	See table 2 and Step 3: Study selection		
exclusion criteria	6		
Terms used	See online supplementary file 2		
Electronic databases Ovid MEDLINE; Embase; Scopus; CINAHL Plus; Web of Scier			
Step 3: Study selection			
Refinement of selection	criteria		

177 Step 3: Study selection

Refinement of selection criteria 178

As is customary in scoping review, the process iterated between searching, selecting, extracting 179

180 data, and refining the research question. To enhance the rigour of this process, and in keeping

181 with our interpretive stance, we responded reflexively to the accumulating evidence, discussing

182 our interpretations, and articulating a clear rationale for each refinement. All records were

imported to Mendeley Reference Manager, duplicates removed, titles and abstracts screened 183

184 against five screening questions (Box 1), and full texts of those that screened positive reviewed

185 against eligibility criteria.

Box 1 Screening questions

- 1. Are the participants CADs (\leq 18 years)?
- 2. Is the study examining an aspect of health, illness, or healthcare?
- 3. Are CADs participating as recipients of healthcare?
- 4. Are participants aged > 18 years excluded from the study?
- 5. Do children or adolescents describe experiences?

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4 5	186	These criteria, at first provisional (table 2A), were progressively refined in response to the
6 7 8 9 10	187	heterogeneity of evidence. Table 2B shows final criteria. GD led the process of first-screening,
	188	annotating, sorting, and collating articles. MK & TD supported her by second-screening 10% of
11 12	189	records, discussing results, assessing articles whose eligibility was in doubt, and responding to
13 14 15	190	the often-imprecise details given by researchers. Any ambiguities (i.e., lack of age ranges) during
16 17	191	screening led to full-text review and a final decision about eligibility against criteria. To optimise
18 19	192	validity of the selection process, GD rescreened all records and annotations after each
20 21 22 23	193	refinement and, finally, after definitive criteria had been set.
	194	Rationale for criteria
24 25 26	195	We included children up to and including 18 years because late adolescents are increasingly
27 28	196	cared for in paediatric settings.[44,45] Our age range conforms, also, with the United Nations'
29 30	197	influential definition of adolescence.[46] We included articles that contained verbatim
31 32	198	quotations irrespective of methodology. Judgement of methodological quality was not a
33 34 25	199	criterion for three reasons: it is not standard practice in scoping reviews; it is notoriously difficult
36 37	200	to judge qualitative research categorically;[47] and the interpretive synthesis used verbatim
38 39	201	quotations, whose validity does not depend on what the primary researchers did with CADs'
40 41 42 43	202	words. Because authors often failed to report the exact age of patient participants they quoted,
	203	we excluded any study that included <u>patient</u> participants aged > 18 years (see, for example,
44 45 46	204	Tjaden et al. [48]).
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Table 2 Eligibility criteria for article selection

Α.	Provisional	В.	Definitive
Inclusio	on criteria:		
1.	CADs speaking about HCPs, through first-person direct quotations.	1.	CADs speaking about one or more HCPs, on one or more instances, from any experience, through first-person direct quotation(s), where there had been direct contact between the two parties, and where CADs were the persons receiving healthcare.
2.	HCP defined as a member of a healthcare team.	2.	An HCP defined as a member of a healthcare team with professional qualifications and training, such as a qualified doctor, nurse, therapist, psychologist, or social workers, regardless of grade.
3.	CADs defined as ≤ 18 years old, regardless of health status or illness type.	3.	CADs defined as \leq 18 years, regardless of health status or illness type.
Exclusi	on criteria:		
1. 2.	Adults aged >18 years included in the study. Non-English language publications.	1. 2. 3. 4. 5.	Adult <u>patients</u> aged >18 years included in the study with or without CADs as defined above. Non-English language publications. CADs speaking about HCP(s) not from memory of personal experience as a patient; for example, third-party description (e.g., parent). Age range of CAD participants unclear. No full-text manuscript available; only an abstract available, or unobtainable by searching online, directly emailing authors, or by university librarians requesting inter-library loans.
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206 Step 4: Charting the data

- 207 GD and MK piloted a spreadsheet to chart study characteristics, contextual information, and all
- 208 CADs' verbatim quotations on 10 articles; this resulted in the final dataset shown in box 2, which

209 GD then used to extract data on the remaining articles.

	Box 2 Data extracted
	Study characteristics: - First author - Year published - Country of origin - No. CAD participants - Age range of CAD participants - Male to female (or non-binary) ratio - Other participants (e.g., parents) - Methods - Methodology (or analytical approach)
	Contextual information: - Study focus (the experience being explored) - Health setting - Health condition - Length of healthcare encounter being explored
	 CADs' quotations: All first-person direct quotations, where CADs are talking about HCPs Age and gender referenced to each quotation
210	When key information was missing or unclear, we sought clarification from primary authors. All
211	authors independently reviewed the extracted information for its fitness to address the aims
212	and purpose of the study, subsequently conferring to optimise the validity of the dataset.
213	Step 5: Collating, summarising, and reporting the results
214	We first analysed the basic characteristics of included studies. We then identified themes in the
215	verbatim quotations following Braun and Clarke's method of thematic analysis as defined by
216	their checklist (included in online supplementary file 3).[49,50] GD immersed herself in the data,
217	reviewing all quotations on Microsoft Excel, using NVivo 12 qualitative analysis software to
218	support generation of codes and construction of themes.[51] Other team members supported
	12

> her interpretation, by reviewing quotations first individually, and then collectively. We systematically interrogated the data for themes that had meaning in relation to the research question, revising candidate themes periodically (with the aid of a visual thematic map) to ensure these were coherent, distinctive, complementary, and relevant. The ensuing thematic structure had central concepts, which we used to organise subordinate themes and their associated codes. Throughout this process, we constantly compared our evolving interpretation against the original data, including a final 'quality control' check of the synthesis against all quotations.[49,50]

In keeping with our interpretive stance, we used our different subject positions as paediatricians, a family doctor, and an adult internist to interpret CADs' words reflexively and arrive at 'beyond-surface insights', so that the themes were amenable to an additional stage of phenomenological synthesis. [34,50] As we did this, the gamut of emotional content in CADs' words became an increasingly compelling influence on our interpretation. CADs' emotional expressions tended to have quite distinct 'valence' (defined as the attractiveness [positive valence] or averseness [negative valence] of the emotions described) which linked in recurring ways to HCPs' reported behaviours. [52,53] So, for example, a HCP who related well to a child might engender trust, while an HCP who related poorly might engender mistrust.

Whilst crude dichotomies between positive/negative emotions and behaviours do not reflect the subtlety of interpretive research, links between these contrasting behaviours were so clearly present that they offered a parsimonious way of presenting our results. The Results section uses the terms 'favourable' and 'unfavourable' to specify what are, in reality, nuanced polarities. To epitomize these important themes in ways that could encourage HCPs to emulate favourable behaviours, we present predominantly favourable behaviours, but provide negative counter-examples to emphasize the breadth of CADs' experiences. As in previous research, [54] we used CADs' own words, as far as possible, to construct a narrative of findings that was as true as

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4 5	244	possible to the phenomena experienced and narrated by children. We use the wording 'HCPs did
6 7 8	245	X' as a shorthand for the more correct wording, 'CADs experienced HCPs as doing X'.
9 10 11	246	Step 6: Stakeholder consultations
12 13	247	As recommended by Levac et al.,[36] GD, AT, and RC (with research ethics and governance
14 15 16	248	approvals) recruited CADs aged 8-16 from inpatient wards in the Royal Belfast Hospital for Sick
17 18	249	Children (RBHSC) to two focus groups whose aim was to consolidate and elaborate on findings.
19 20	250	Participants and parents chose whether parents should attend. We presented candidate themes
21 22	251	along with exemplar quotations and facilitated discussions, asking participants to comment on
23 24 25	252	provisional findings and provide suggestions for practice. We audio-recorded sessions and
25 26 27	253	transcribed recordings verbatim. We reviewed transcripts alongside the provisional findings to
28 29	254	authenticate, build upon, and summarise a final narrative of results. Participants' identities are
30 31	255	pseudonymised in the results section.
32 33 34 35	256	Patient and public involvement
36 37	257	The essence of this research was to involve children, albeit as expressed verbatim by other
38 39	258	researchers. The stakeholder consultation further fulfilled the patient and public involvement
40 41 42	259	component of the research by ensuring findings disseminated were intelligible and relevant.
43 44	260	RESULTS
45 46	261	We identified 1,359 articles, excluding 1,015 by screening and 245 by reviewing full texts, and
47 48 49	262	categorised reasons for exclusion on a PRISMA flow diagram (shown in figure 1).
50 51 52	263	Overview of included studies
53 54	264	Table 3 presents an overview of included studies (n=99), published between 1992 and 2018. In
55 56 57	265	total, 4,448 CADs, aged 11 months to 18 years, participated. Most studies included 8 to 50
58 59	266	participants (n=73), aged 7 or older (n=70), and used interviews only (n=64). Studies commonly
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267	included CADs with chronic and potentially debilitating or life-threatening conditions (such as
268	asthma and cancers), explored long-term experiences (over months to years), and focused on
269	hospital care. Further descriptive findings and figures are presented in online supplementary file

to occurrences

4.

Table 3 Study characteristics

Study details	Study details CAD participants Design				Design	ign Contextual information					
First author, year	Country	n	Age (yrs)	M:F	Methods	Methodology/analytical approach	Study focus (experience of)	Health setting	Health condition	Length of encounter	
			11-						Mental health		
Aalsma <i>et al.,</i> 2014[55]	US	19	17	12:7	INT	Qualitative	CAMHS	Non-specific	illness	Long-term	
Alex MR, 1992[56]	Canada	24	7-11	13:11	INT, Q	Content analysis	Pain	Hospital	Surgical (post-op)	Short-term	
			15-			Interpretative			Post-lung		
Anderson <i>et al.,</i> 2017[57]	England	6	18	3:3	INT	phenomenological analysis	Lung transplantation	Hospital	transplantation	Long-term	
Ångström-Brännström <i>et al.,</i> 2008[58]	Sweden	7	4-10	3:4	INT (PT)	Thematic analysis	Being comforted	Hospital	Chronic	Short-term	
Ångström-Brännstrom et al.,	Sweden						Comfort during cancer				
2014[59]		9	3-9	5:4	INT	Content analysis	treatment	Hospital	Cancer	Long-term	
Beresford et al 2003[60]	England	63	11-	27.36	INT EG (PT)	Framework method	Communicating	Hospital	Chronic	Long-term	
beresiona et al., 2003[00]	Lingianu	03	10-	27.30		Tranework method	Hospital and coping	nospital	Chronic	Long-term	
Boyd <i>et al.,</i> 1998[61]	Canada	6	13	2:4	INT (PT), WT	Grounded theory	strategies	Hospital	Surgical (chronic)	Long-term	
			11-						Mental health		
Brown <i>et al.,</i> 2014[62]	US	19	17	12:7	INT	Grounded theory	Therapeutic alliances	Hospital	illness	~	
Carney <i>et al.,</i> 2003[63]	Scotland	213	4-17	115:98	INT, FTQ	Thematic analysis	Healthcare	Hospital	Non-specific	Non-specific	
Cheng et al., 2003[64]	Taiwan	90	5-14	45:45	INT	Content analysis	Pain	Hospital	Non-specific	Non-specific	
Cheng <i>et al.,</i> 2016[65]	Taiwan	11	12- 18	7:4	INT	Content analysis	Cancer recovery	Hospital	Cancer	Long-term	
Christofides <i>et al.</i> , 2016[66]	Canada	19	8-18	7:12	INT	Thematic analysis	Research participation	Hospital	Cystic fibrosis	Long-term	
Clift <i>et al.</i> , 2007[67]	Wales	6	11- 15	3:3	INT	Qualitative	Emergency admission	Hospital	Non-specific	Short-term	
· · · ·			14-	219:15							_
Colver <i>et al.,</i> 2018[68]	England	374	18	5	INT, Q, OBS	Constant comparison	Transition	Hospital	Medical	Long-term	
									Cancer/ blood		
Corsano <i>et al.,</i> 2015[69]	italy	27	6-15	12:15	INI	Qualitative	Emotional events	Hospital	alsorders	Long-term	
Coyne <i>et al.,</i> 2006[70]	Ireland	55	7-18	30:25	INT, FG	Constant comparison analysis	making	Hospital	Non-specific	Non-specific	
Covne. 2006a[71]	Ireland	11	7-14	~	INT	Grounded theory	Hospitalisation	Hospital	Non-specific	~	
, .,					INT (PT), FTQ.						
Coyne, 2006b[72]	Ireland	11	9-14	~	OBS	Grounded theory	Participating	Hospital	Non-specific	~	
Course at al. 2007[72]	to to a	47	7.40	~	INIT	Qualitatius	lie en italianti en	l la avital	New weekster		

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Study details		CA	D partic	ipants		Design		Contextual inf	ormation		Data
First author, year	Country	n	Age (yrs)	M:F	Methods	Methodology/analytical approach	Study focus (experience of)	Health setting	Health condition	Length of encounter	Quotes (n)
Coyne <i>et al.,</i> 2011[74]	Ireland	55	7-18	31:24	INT, FG	Qualitative	Communicating/ decision- making	Hospital	Non-specific	Non-specific	20
Coyne <i>et al.,</i> 2012[75]	Ireland	38	7-18	~	INT (PT)	Content analysis	Hospital and HCPs	Hospital	~	~	24
Coyne <i>et al.,</i> 2014[76]	Ireland	20	7-16	11:9	INT (PT)	Constant comparison analysis	Participating/ decision- making	Hospital	Cancer	Long-term	2
Coyne <i>et al.,</i> 2015[77]	Ireland	15	12- 18	6:9	INT, FG	Thematic analysis	CAMHS	Non-specific	Mental health illness	Long-term	6
Coyne <i>et al.,</i> 2016[78]	Ireland	20	7-16	11:9	INT	Grounded theory	Communicating	Hospital	Cancer	Long-term	6
Curtis <i>et al.</i> , 2017[79]	England	17	5-16	~	INT (PT), OBS	Ethnographic	Single/ shared rooms	Hospital	~	~	3
Das et al., 2017[80]	India	14	8-15	~	FG	Qualitative	Living with HIV	Non-specific	HIV	Long-term	1
Day et al., 2006[81]	England	11	9-14	5:6	FG	Thematic Analysis	CAMHS	Non-specific	Mental health illness	Long-term	13
Dell'Api <i>et al.,</i> 2007[82]	Canada	5	10- 17	2:3	INT	Qualitative	Interacting with HCPs	Hospital	Non-specific	Long-term	19
Dixon-Woods et al., 2002[83]	England	20	8-16	9:11	INT	Constant comparison analysis	Asthma services	Community	Asthma	Long-term	12
Edgecombe <i>et al.,</i> 2010[84]	England	22	11- 18	16:6	INT	Thematic analysis	Asthma services	Hospital	Asthma	Long-term	5
Ekra et al., 2012[85]	Norway	9	7-12	5:4	INT, OBS (PT)	Hermeneutic phenomenology	Hospitalisation	Hospital	TIDM	Long-term	2
Engvall <i>et al.,</i> 2016[86]	Sweden	13	5-15	6:7	INT (PT)	Content Analysis	Radiotherapy	Hospital	Cancer	Long-term	2
Forsner <i>et al.,</i> 2005[87]	Sweden	7	7-10	4:3	INT	Thematic analysis	Illness	Hospital	~	Short-term	4
Forsner <i>et al.,</i> 2009[88]	Sweden	9	7-11	2:7	INT, OBS	Hermeneutic phenomenology	Fear	Hospital	Non-specific	Short-term	4
Garth et al., 2009[89]	Australia	10	8-12	3:7	INT	Grounded theory	Participating	Non-specific	Cerebral palsy	Long-term	3
Gill et al., 2016[90]	England	12	14- 17	2:10	INT	Thematic analysis	CAMHS inpatient ward	Non-specific	Mental health illness	Long-term	2
Griffiths <i>et al.</i> , 2011[91]	Australia	9	8-16	~	INT	Interpretative phenomenological analysis	Living with cancer	Non-specific	Cancer	Long-term	3
Haase et al., 1994[92]	US	7	5-18	3:4	INT (PT)	Colaizzi's method of phenomenological analysis	Completing cancer treatment	Non-specific	Cancer	Long-term	6
Hall et al., 2013[93]	England	17	8-17	~	INT	Thematic analysis	Life with repaired cleft lip/ palate	Non-specific	Cleft lip/ palate	Long-term	1

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Study details	;	CA	D partici	pants		Design		Contextual inf	ormation		Data
First author, year	Country	n	Age (yrs)	M:F	Methods	Methodology/analytical approach	Study focus (experience of)	Health setting	Health condition	Length of encounter	Quote (n)
Han <i>et al.,</i> 2011[94]	China	29	7-14	16:13	INT	Content analysis	Cancer	Hospital	Cancer	Long-term	
Hanson et al., 2017[95]	US	30	4-14	16:14	INT	Narrative analysis	Pain	Hospital	Fractured arm	Short-term	
Harper <i>et al.,</i> 2014[96]	England	10	16- 18	3:7	INT	Interpretative phenomenological analysis	CAMHS	Non-specific	Mental health illness	Long-term	
Hart <i>et al.,</i> 2018[97]	England	14	14- 16	~	INT	Thematic analysis	CAMHS	Non-specific	Mental health illness	Long-term	
Hawthorne <i>et al.,</i> 2011[98]	England	21	7-16	12:9	FG	Thematic analysis	Diabetes services	Hospital	T1DM	Long-term	
Hinton <i>et al.,</i> 2015[99]	England	21	8-17	6:15	INT (PT)	Constant comparison analysis	A multiple sclerosis diagnosis	Non-specific	Multiple sclerosis	Long-term	
Hodgins <i>et al.,</i> 1997[100]	Canada	85	5-13	38:41	INT, Q	Mixed-method	Venepuncture	Hospital	Non-specific	Short-term	
Hutton, 2005[101]	Australia	7	13- 18	3:4	INT (PT)	Qualitative	Adolescent wards	Hospital	Cystic fibrosis/ asthma	Long-term	
Jachyra <i>et al.,</i> 2018a[102]†	Canada	8	11- 17	4:4	INT	Interpretative phenomenological analysis	Talking about weight	Non-specific	ASD	Long-term	
Jachyra <i>et al.,</i> 2018b[103]†	Canada	8	11- 17	4:4	INT	Interpretative phenomenological analysis	Talking about weight	Non-specific	ASD	Long-term	
Jensen <i>et al.,</i> 2012[104]	Denmark	8	8-10	5:3	INT (PT)	Thematic analysis	Acute hospitalisation	Hospital	Medical	Short-term	
Jongudomkarn <i>et al.,</i> 2006[105]	Thailand	49	4-18	31:18	INT, FG, OBS, PT	Content analysis	Pain	Non-specific	Non-specific	Long-term	
Kluthe <i>et al.,</i> 2018[106]	Canada	18	6-17	11:7	INT	Content analysis	IBD diagnosis	Hospital	IBD	Long-term	
Koller <i>et al.</i> , 2010[107]	Canada	21	5-18	12:9	INT (PT)	Grounded theory	Hospitalisation during SARS	Hospital	Non-specific	Long-term	
Koller, 2017[108]	Canada	26	5-18	11:15	INT (PT)	Thematic analysis	participating	Hospital	Chronic	Long-term	
Kortesluoma <i>et al.,</i> 2006[109]†	Finland	44	4-11	~	INT	Content analysis	Pain	Hospital	Non-specific	Non-specific	
Kortesluoma <i>et al.,</i> 2008[110]†	Finland	44	4-11	27:17	INT	Content analysis	Pain	Hospital	Non-specific	Non-specific	
Lewis et al., 2007[111]	Australia	9	8-16	5:4	INT	Cognitive mapping	Receiving care	Hospital	~	~	
Livesley <i>et al.,</i> 2013[16]	England	15	5-15	3:2	INT (PT), OBS	Critical ethnography, constant comparison analysis	Hospitalisation	Hospital	Surgical	Long-term	
Lowes <i>et al.,</i> 2015[23]	Wales	518	7-15	~	FTQ	Qualitative descriptive analysis	Life with T1DM and services	Hospital	T1DM	Long-term	

Study details		CA	D partic	ipants	Design Contextual information						Data
First author, year	Country	n	Age (yrs)	M:F	Methods	Methodology/analytical approach	Study focus (experience of)	Health setting	Health condition	Length of encounter	Quotes (n)
Macartney et al., 2014[112]	Canada	12	9-18	6:6	INT	Content analysis	Life after a brain tumour	Non-specific	Brain tumour	Long-term	1
						Interpretative			Cancer & blood		
Manookian et al., 2014[113]	Iran	6	6-17	3:3	INT	phenomenological analysis	Stem cell transplantation	Hospital	disorders	Long-term	4
Marcinowicz <i>et al.</i> ,	Dataset		10-	0.1.4			Nurse relationships and				_
2016[114]	Poland	22	16	8:14			Wards	ноѕрітаї			
Marshman <i>et al.</i> , 2010[115]	England	10	12-	5:5	INT. Q	Framework analysis	Malocclusion treatment	Non-specific	Malocclusion	Long-term	1
McNelis et al. 2007[116]	India	11	7-15	6.5	FG	Thematic analysis	Living with enilensy	Non-specific	Enilensy	Long-term	
Weivens et ul., 2007 [110]	India		7-15	0.5	10	Phenomenology, thematic	Living with epilepsy	Non-specific	срперзу	Long-term	
McPherson <i>et al.</i> , 2017[117]	Canada	17	6-18	8:9	INT	analysis	Talking about weight	Hospital	Spina Bifida	Long-term	3
• • •			10-			N,					
McPherson et al., 2018[118]	Canada	18	17	9:9	INT, FG	Thematic analysis	Talking about weight	Hospital	Non-specific	Long-term	3
Moules, 2009[119]	England	138	9-14	82:56	INT (PT)	Framework analysis	Hospital care	Hospital	~	~	3
					INT, Q, vital		Music therapy for lumbar				
Nguyen <i>et al.</i> , 2010[120]	Sweden	40	7-12	~	signs	Content analysis	puncture	Hospital	Cancer	Short-term	1
Nilsson <i>et al.,</i> 2011[121]	Sweden	39	5-10	32:7	INT	Content analysis	Pain	Hospital	Skin trauma	Short-term	4
Noreña Peña <i>et al.,</i>							Communicating with				
2011[122]†	Spain	30	8-14	13:17	INT, OBS	Critical incident technique	nurses	Hospital	Surgical	~	24
Noreña Peña <i>et al.,</i>	Casia	20	0.14	12.17		Critical incident technique	Communicating with	Hospital	Surgical	~	
2014[123]	Spain	30	8-14	13:17	INT, OBS		nurses	поѕрітаі	Surgical		
Olausson et al., 2006[124]	Sweden	18	4-18	8:10	INT	Hermeneutic phenomenology	Life after transplantation	Non-specific	Post- transplant	Long-term	e
Data at a 1 - 2004[425]	et al a sul			20.42			N	11	Chronic (T1DM &		
Pelander <i>et al.</i> , 2004[125]	Finland	40	4-11	28:12				Hospital	other)	Long-term	3
Pelander <i>et al.,</i> 2010[126]	Finland	388	7-11	8 *	FTQ	Content analysis	Hospitalisation	Hospital	Non-specific	Non-specific	2
Pölkki et al., 1999[127]	Finland	20	7-11	~	INT. WT	Content analysis	Pain	Hospital	Non-specific	~	1
									-		
Pope <i>et al.</i> , 2018[128]	Australia	15	4-8	11:4	INT (PT)	I hematic analysis	Pain and nurses' roles	Hospital	Irauma	Short-term]
Randall, 2012[129]	England	21	17	8:12 *	PTD	phenomenological analysis	nursing	Community	Non-specific	Long-term	4
Rankin <i>et al.</i> , 2018[130]	Scotland	24	9-12	13:11	INT (PT)	Thematic analysis	Managing T1DM	Non-specific	T1DM	Long-term	
	Costana	2.7					Research participation/		Asthma or		
Roper <i>et al.,</i> 2018[27]	England	16	7-15	9:7	INT	Qualitative	consent	Hospital	anaphylaxis	Short-term	7



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Study details		CA	D partici	pants		Design		Contextual inf	ormation		Data
First author, year	Country	n	Age (yrs)	M:F	Methods	Methodology/analytical approach	Study focus (experience of)	Health setting	Health condition	Length of encounter	Quotes (n)
Ruhe <i>et al.,</i> 2016[131]	Switzerland	17	9-17	11:6	INT	Thematic analysis	Participating	Hospital	Cancer	Long-term	
Ryals, 2011[132]	US	8	13- 17	6:2	INT	Phenomenology	Therapeutic relationships	Non-specific	Mental health illness	Long-term	5
Saarikoski <i>et al.</i> , 2018[133]	Finland	19	6-12	7:12	FG	Content analysis	Therapeutic intervention	Community (school)	Enuresis	Long-term	
Salmela <i>et al.</i> , 2010[134]	Finland	90	4-6	~	INT	Colaizzi's method of phenomenological analysis	Hospital related fears	Hospital	~	~	
Schalkers <i>et al.,</i> 2014[135]	The Nether- lands	63	6-18	31:32	INT (PT), WT	Action research	Hospital care	Hospital	Non-specific	~	
Schmidt <i>et al.,</i> 2007[136]	US	65	5-18	34:31	INT, FTQ	Thematic analysis	Nurses in hospital	Hospital	Non-specific	Non-specific	4
Spalding <i>et al.,</i> 2016[137]	England	7	8-14	2:5	WS (PT)	Action research, thematic analysis	Good doctors	Hospice	Palliative	Long-term	
Stevens <i>et al.</i> , 2006[138]	Canada	14	7-16	9:5	INT	Content analysis	Home chemotherapy	Community (home)	Cancer	Long-term	
Taylor <i>et al.,</i> 2010[139]	England	14	12- 18	~	INT	Framework analysis	Life after transplantation	Non-specific	Liver transplant	Long-term	
Vejzovic <i>et al.,</i> 2014[140]	Sweden	17	10- 17	5:12	INT	Content analysis	Preparing for colonoscopy	Hospital	Suspected IBD	Short-term	
Vindrola-Padros, 2012[141]	Argentina	10	8-16	5:5	INT (PT)	Narrative analysis	Living with cancer	Non-specific	Cancer	Long-term	
Wangmo <i>et al.,</i> 2016[142]	Switzerland	17	9-17	11:6	INT	Qualitative	Cancer services and treatment	Hospital	Cancer	Long-term	
Watson <i>et al.</i> , 2009[143]	US	9	14- 18	7:1:1#	INT	Grounded theory	Accessing CAMHS & mental illness	Non-specific	Mental health illness	Long-term	
Wen <i>et al.,</i> 2013[144]§	Singapore	203	4-18	~	INT, OBS	Thematic analysis	Pain	Non-specific	Surgical (post-op)	Non-specific	1
Wise, 2002[145]	US	9	7-15	~	INT (PT)	Hermeneutic phenomenology	Transplantation	Non-specific	Liver transplant	Long-term	
Wong et al., 2012[146]	China	79	10- 13	54:25	FG	Qualitative	Weight-loss program	Community (school)	Obesity	Long-term	
Woodgate, 2008[147]	Canada	13	9-17	7:6	INT	Constant comparison analysis	Cancer symptoms	Non-specific	Cancer	Long-term	
Wray et al., 2018[148]	England	543	8-16	~	INT, FG, Q	Framework Analysis	Healthcare	Hospital	~	~	
Xie <i>et al.</i> , 2016[149]	China	21	7-12	12:9	INT	Content Analysis	Lumbar puncture	Hospital	ALL	Short-term	1
Young et al., 2003[150]	England	13	8-17	8:5	INT	Constant comparison analysis	Communicating	Hospital	Cancer	Long-term	

Note: Non-specific, not focusing on a certain type or area; ALL, acute lymphoblastic leukaemia; ASD, autism spectrum disorder; CAMHS, child and adolescent mental health service; HIV, human immunodeficiency virus; IDB, inflammatory bowel disease; SARS, severe acute respiratory syndrome; T1DM, type 1 diabetes mellitus. FG, focus groups; FTQ, free-text questionnaires; INT, interviews; OBS, observations; PT, participatory techniques employed; PTD, photo talk diaries; Q, quantitative questionnaires; WS, workshops; WT, writings; ~, unable to ascertain; *, numerical inconsistency detected in source article; +, same study with different quotations er review only presented; §, qualitative systematic review; #, non-binary gender.

1 2		
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5 6 7	278	Children's and adolescents' experiences
8 9	279	Six-hundred and sixty-nine quotations referred to CADs' experiences of HCPs, most of whom
10 11 12 13 14 15 16	280	were doctors or nurses. CADs also spoke about their experiences with counsellors,
	281	psychologists, social workers, and dentists. CADs' ages (available for 397 quotations), ranged
	282	from 5-18 years (average 13); male and female participants were equally represented (see
17 18	283	supplementary file 5). All quotations extracted are available at doi:10.5061/dryad.z08kprrc2;
19 20	284	quotations presented below are cited in online supplementary file 6.
21 22 23	285	CADs' favourable experiences were of HCPs forming trusting relationships and involving them in
24 25	286	healthcare discussions and decisions and their unfavourable experiences were generally towards
26 27 28	287	the opposite pole.
28 29 30 31	288	Forming trusting relationships
32 33 34	289	Their nature
35 36	290	Being in a trusting relationship was feeling a 'bond', having an 'emotional attachment', or having
37 38 39 40 41	291	a 'best friend'. CADs and HCPs knew each other, could 'relate to' each other, and really
	292	understood each other. There was openness, transparency, and there was trust. CADs trusted in
42 43	293	HCPs to provide 'good care', knowing they would do everything necessary, and do it right.
44 45 46 47	294	Their origins
48 49	295	At first, HCPs were 'strangers'; CADs did not know the HCPs, who they were, and how they were.
49 50 51 52 53 54	296	HCPs, likewise, did not know CADs, their histories, or their personalities. Repeated contact and
	297	dialogue built and reinforced relationships: 'As time passed, [] we created that bond.'
55 56	298	HCPs engendered trusting relationships by demonstrating positive attributes, including being
57 58 59 60	299	able to empathise. CADs trusted in HCPs who were 'very smart', 'experienced', '[knew] what to
		22

do', '[took] care', and did 'everything the best they [could]'. They trusted HCPs who were
'truthful', '100% with you', and 'just [told] you straight up.' Such HCPs did 'not tell children any
lies'; 'nothing [was] hidden'. CADs built trusting relationships with HCPs who were 'really nice',
'nurturing, caring, and helpful people who [were] there for you', and had a 'good sense of
[humour]'.

HCPs related to CADs by understanding them: 'she knew what I was talking about, she knew
what I was feeling, she knew how I was feeling.' HCPs 'took time to get to know' CADs and had
'real conversations, not just [HCP]-patient discussions', in which they shared experiences and
got to know each other personally. CADs could better relate to HCPs who were 'down to earth'
and had 'a lot in common'.

310 Their effects

Trust was vital: 'you gotta have trust.' Trusting relationships improved CADs' healthcare experiences by promoting positive emotions. CADs felt 'satisfied' and 'happy'. They enjoyed their time with HCPs and had 'good memories'. CADs were more able to 'open up' or 'tell anything' to HCPs whom they trusted. Trusting relationships gave CADs hope that HCPs could 'cure [the] illness' or help lessen the pain. CADs who trusted HCPs submitted themselves more willingly to recommended treatments: 'whatever happens I let them [HCPs] do what they have to do to help me get better.' And they consciously chose to remain with or seek out HCPs they trusted. CADs admired trustworthy HCPs: 'individually [they're] all heroes.' And they aspired to be like them: 'Because you can save people [...] I'm going to be a children's doctor.'

320 Being involved in healthcare discussions and decisions

321 The nature of involvement

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322 CADs who were fully involved in healthcare discussions felt they knew everything; 'everything
323 [was] always clear' to them. They had a seat at the table to discuss issues that affected them and
324 felt acknowledged as key stakeholders. CADs worked 'together' with HCPs and parents; they felt
325 as though they were respected, taken 'seriously', and treated 'as an equal'.

326 Its origins

327 HCPs involved CADs by including them in conversations, sharing information, providing 328 opportunities to ask questions, taking time to answer, and listening to their wider needs and 329 preferences. HCPs who promoted involvement used simple words, communicated in a timely 330 way, gave accurate information at the right pace, and explained things so that CADs understood. 331 These HCPs brought CADs 'into all the conversations' by talking to CADs 'as much as they [talked 332 to the] parents'. Parents facilitated CADs' involvement in the presence of HCPs or afterwards by 333 '[breaking] the words down in an easier explanation'. HCPs promoted participation by 'listening' 334 to and respecting CADs' requests: 'I tell them I don't want this and they ... understand'. For more 335 complex decisions, CADs took a joint approach: 'me because I know my own body, my parents 336 because they know what's best for me [...] and the paediatrician because they are qualified.'

337 Its effects

GADs viewed involvement as 'most important, as in the end it is about [them]'. CADs enjoyed
being involved; it was 'brilliant', and they looked forward to their next visit. CADs were more
satisfied with healthcare; they found it 'interesting and informational'. Getting to 'learn
something new' made them feel 'comfortable and confident'. CADs could 'make better
decisions' because they were 'fully informed'. This promoted self-advocacy and self-efficacy:
'I'm asking the doctor more questions myself than having my Dad do it.'

Not forming trusting relationships or being involved

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345 CADs described unfavourable experiences, which broadly *mirrored* favourable ones. For 346 instance, trust was undermined by HCPs getting things wrong, being 'nasty', and not '[seeming] 347 that concerned'. HCPs being unfamiliar to CADs because they were 'too busy' or because HCPs 348 or CADs moved to other services prevented trusting relationships forming. HCPs excluded CADs 349 by using 'big words', speaking too fast, or telling them nothing, so that CADs could not 350 understand. HCPs neglecting to ask CADs or asking in a tokenistic way prevented them 'having a 351 say': 'they [HCPs] might ask me "is that ok" [...] in such a way that I kind of feel like I don't have 352 any other option but [to] agree with them'. HCPs and parents side-lined CADs by talking behind 353 the curtains so CADs could not hear or sticking them 'in the middle' of a conversation where 354 they could not interrupt. Some parents told CADs to keep quiet or dominated conversations: 355 'you try to say something but then your parents just say shhhhh! [...] They come out and say, [...] 356 did you understand that, you say no, they say, you should have asked them, and then you say, 357 oh you didn't let me, they say rubbish!' 358 Not trusting people or understanding what was happening made CADs fearful. HCPs who made

359 CADs feel 'rejected' and objectified, 'like a piece of machinery', enraged them. CADs found it
360 'hard to talk', disengaged in conversations, and left the talking to their parents. Not trusting in
361 HCPs or being uninvolved meant some CADs hated hospital or clinic, they objected to attending,
362 and sought information or guidance from other sources.

363 Stakeholder consultations

0364Two CAD inpatients participated in each of two focus groups (3 females and 1 male, aged 11-152365years) lasting 67 and 93 minutes respectively. Their medical conditions included type 1 diabetes,3366coeliac disease, spina bifida, and spinal/brain surgery. No parents attended. Three authors (GD,3367AT, & RC) attended both consultations and a hospital play specialist attended the first8368consultation. Participants identified with the provisional findings and elaborated on them (table

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4 5 6	369	4). All wanted some degree of involvement in their own care though the amount of information
7 8	370	and level of participation they wanted depended on their age, what was being discussed, and
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 25 26 27 28 29 30 31 32 33 43 56 37 38 9 40 41 42 43 44 56 57 58 58 57 58 58 58 58 58 58 58 58 58 58	370	and level of participation they wanted depended on their age, what was being discussed, and individual preferences. Box 3 offers take-home messages for HCPs.
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Table 4 Stakeholder findings: Focus group participants' experiences mapped to overarching themes

Overarching themes	Forming trusting relationships	Being involved in healthcare discussions and decisions	
Favourable experiences	Rachel, a young girl with diabetes, described having a very good relationship with the diabetic team and ward staff: 'Hm, it's just the nurses really like nice. Like, the first night I was staying over they were staying it's a sleepover and stuff.' (Rachel, FG1, line 746 & 747) She acknowledged how continuity of care helped her become more familiar with the staff: 'they're always in the clinic when I am there'. (Rachel, FG1, line 678) She commented on how the diabetic team got to know her, by chatting casually and taking an interest in her wider life: 'they like asked me what school I'm going to this year' and about 'my baby sister and stuff'. (Rachel, FG1, line 815-819) Participants experienced some HCPs as being easier to talk to than others. Rachel felt that she could talk to the diabetic team: '[] I can talk to them more 'cos you know them.' (Rachel, FG1, line 621) From the perspective of Laura, a young girl with a recent diagnosis of diabetes, a caring nature was an important factor: '[HCPs who] make you feel as if they care [were easier to talk to]'. (Laura, FG2, line 432)	 Laura was well informed by her hospital consultant, who had seen her when she was first diagnosed with diabetes: 'My consultant like came the day before [] and he explained the whole thing in detail.' (Laura, FG2, line) Laura's experience of being well informed resembled Rachel's: 'The doctor like normally tells n everything that I need to know anyway and they put it in like ways that I like, know.' (Rachel, FG1, line 65 658) Sarah, an adolescent with spina bifida and scoliosis, felt she had some control over her treatment: 'Uhm might have to get the surgery on my back, because I've got scoliosis, em, so if it gets like really, it's not to bad but if it gets worse I have to have surgery so I feel as if I have like a choice because I don't have to have it, and I don't want it. [] I don't want to have it.' (Sarah, FG2, line 743-748) Although all participants wanted to be informed, the oldest participant, Darren, a young boy with spina bifida and epilepsy, preferred his parents to ask and answer questions, and doctors to make decisions or behalf: 'GD: Do you ever have any questions [Darren]? Darren: Ahdon't think so. AT: Are you happy for your parents to ask the questions? Darren: Yeah. AT: And you just listen? 	
Unfavourable experiences	Sarah found it difficult to trust HCPs who were uncaring: 'Well yesterday I had to get a line [cannula] in and there was four different doctors that tried [] and I thought like the doctors didn't really care, they were just gonna get it in, they didn't really care what I was thinking. [] Well I know they needed to do it. But they didn't care, [] they didn't care if they hurt me.' (Sarah, FG2, line 438-441 & 512)	Durren: rean (smining and raughing). (Verbatim excerpt, FG1, inte 555-560) During her cannulation experience, Sarah felt angry because HCPs failed to grant her wishes: 'I alway: them to put it, try my feet first because I don't have any feeling in my feet [] I told the doctor not to p in there and they still did it. [] I was really cross after it because I thought all that pain.' (Sarah, FG2, 460-465) Sarah spoke about feeling excluded when a doctor spoke discretely to her mother: 'No but it does hap to people like they feel they're left out. [] Today, [] a doctor was explaining something to me and h just about to leave and when he was just about to leave he said to my mum, "If you want to ask a que can come back" so I kind of thought is he doing that because he doesn't want me to hear my mother of the question.' (Sarah, FG2, line 612 & 619-622)	
373 Note:	Rachel, Laura, Sarah, and Darren are pseudonyms (participants aged 11-15 years)	1	
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	For peer review only - http://bmjopen.bmj.com	n/site/about/guidelines.xhtml	

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4 5	275	Roy 2 Take home messages for LICDs						
6 7	375	Box 3 Take-nome messages for HCPs						
 7 8 9 10 11 12 13 14 15 16 17 		 Focus group participants provided take-home messages about how HCPs, could deliver high-quality child-centred care: 1. 'Explain.' (Laura, FG2, line 409) 'Explain it in a child friendly way.' (Sarah, FG2, line 411) 'Because if the child is really young it has to be explained in a different way. At an age you're able to understand [or HCPs will] scare them.' (Sarah, FG2, line 658-663) 2. 'They should explain what they are going to do before they do it, and like [] always say who they are and what they're gonna do [] [and at] what time [], and 						
17 18 19 20 21 22 23 24 25 26		 explain what was gonna happen and why [].' (Rachel, FG1, line 498-510) 3. 'I think just tell everyone together. [] Because like telling your mum and dad first you'll see the expression on their face and then you're already gonna know.' (Laura, FG2, line 651-654) 4. 'Always like ask [children] do you have any questions [] ask [to check understanding].' (Sarah, FG2, line 388 & 416-417) 5. 'Whenever [children] come in, try and treat them like nicer, em.' (Darren, FG1, line 992) 'Like treat them the same as everybody else so they all feel the same.' (Rachel, FG1, line 993) 						
27 28	376	Note: Rachel, Laura, Sarah, and Darren are pseudonyms (participants aged 11-15 years)						
29 30 31 32	377	DISCUSSION						
33 34	378	CADs' experiences were influenced by HCPs forming relationships and involving them:						
35 36 37	379	engendering trust and involving CADs satisfied them, made them happier when undergoing						
37 38	380	procedures and treatments, and better able to confide. HCPs did this by being personable, wise,						
39 40	381	and sincere, relating at a personal level, bringing CADs into conversations and decisions, and						
42 43	382	speaking in child-friendly ways. Conversely, not relating to or involving CADs, communicating						
44 45	383	ineffectively by using inappropriately technical language or positioning CADs as 'piggy-in-the-						
46 47	384	middle' between HCPs and parents resulted in CADs being fearful, angry, resistant, and						
48 49 50	385	disengaged.						
51 52	386	These findings add to earlier studies, which identified intimate relationships,[78,111,151]						
53 54 55	387	trust,[78] and involvement,[48,152] as important ingredients of caring well for CADs. They						
56 57	388	corroborate a recent systematic review of decision-making experiences, which found that HCPs						
58 59	389	(and parents) made adolescents feel fearful, anxious, and depersonalised when they withheld						
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4 5 6	390	information or denied involvement.[152] Parents had a significant influence on HCPs'
7 8	391	experiences in our study too, by facilitating or impeding communication. Overcoming parental
9 10	392	primacy, over-involvement, over-protectiveness, [48, 78, 152] and wishes to withhold information
11 12 13	393	remains a substantial challenge for HCPs.[78]
14 15 16	394	Strengths and limitations
17 18 19	395	Our synthesis advances understanding of CADs' experiences of HCPs because of its
20 21	396	comprehensiveness, analysis of interrelationships between the nature, origins, and effects of
22 23	397	trust and involvement, and its advocacy for CADs' autonomy. It provides a blueprint for CCC,
24 25	398	which has, until now, largely depended on theory and expert consensus rather than empirical
26 27 28	399	evidence.[8] Our findings endorse the concept and importance of CCC, whilst showing how
29 30	400	much work is needed to put this principle into practice. Our review was innovative in the way it
31 32	401	used phenomenology, a theory that is highly relevant to the topic, to inform a rigorous
33 34	402	interpretive synthesis. This allows us to go beyond cataloguing publications and draw empirically
35 36 37	403	supported conclusions about how HCPs could care more effectively for CADs. This, we suggest, is
38 39 40	404	a significant contribution to the scholarship of evidence synthesis.
40 41 42	405	As with most qualitative syntheses, we present a broad overview, whose findings are potentially
43 44	406	transferable across a range of clinical contexts. We took an iterative approach to article
45 46	407	selection and ensured adequate time for rigorous interpretive analysis; while some evidence
47 48 40	408	may have been published since we searched the databases, this is an inherent limitation in
50 51	409	research that goes to such lengths to analyse a huge evidence-base and synthesise information.
52 53	410	We doubt that this materially affects our conclusions since the nature of human relationships
54 55	411	are unlikely to change in 12 months. Consulting with stakeholders, whilst obviously desirable, is
56 57 58 59 60	412	often omitted from scoping reviews.[153] Our consultation sample was admittedly small and

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6	413	relatively homogenous, but participants spoke informatively about their experiences, which			
7 8 9	414	helped consolidate and authenticate the findings.			
9 10 11	415	Our conclusions are susceptible to both publication and interpretation bias because more			
12 13 14	416	emotive material tends to attract greater attention. This limitation is partially offset by our			
15 16	417	rigorous adherence to methodological standards. Another limitation, imposed by the non-			
17 18	418	specific nature of studies and inexplicit reporting of metadata by primary authors, is that we			
19 20	419	could not analyse how different types of HCP, or participants' ages or illnesses, affected CADs'			
21 22	420	experiences. Restricting the scope to English language publications excluded non-English			
23 24 25	421	speaking children from distinct cultural groups. This is an important topic for future study.			
26 27 28	422	Implications for policy, research, and practice			
29 30	423	Our findings add impetus to the movement to design, deliver, and further characterise child-			
31 32 33 34 35 36 37 38 39	424	centred healthcare,[154] which has important implications for HCPs, educators, researchers, and			
	425	policymakers. Our empirical augmentation of this conceptual model supports these initiatives.			
	426	To achieve the vision of CCC, there is a need for communication strategies, training,			
	427	assessments, and feedback (from CADs, specifically) at both the undergraduate and			
40 41 42	428	postgraduate levels of health professions education. Further research will be needed to address			
43 44	429	the long-term sustainability and effectiveness of CCC. Evidence on how healthcare policy,			
45 46	430	practice, and legislation can influence child-centred approaches is also long overdue. Further			
47 48	431	research could also examine how age, illness, gender, and the cultures of different professions			
49 50 51	432	influence the drive for CCC. Further implications for practice include the need for HCPs to			
52 53	433	examine how professional boundaries between themselves and CADs are characterized, and			
54 55 56	434	consider how best to respect CADs' preferences when it goes against 'best practice'.			
57 58 59 60	435	ABBREVIATIONS			

1 2		
3		
5 6 7	436	CADs- Children and adolescents
, 8 9	437	CCC- Child-centred care
10 11 12	438	CINAHL- Cumulative Index to Nursing and Allied Health Literature
13 14 15	439	FCC- Family-centred care
16 17 18	440	HCPs- Healthcare professionals
19 20	441	PCC- Patient-centred care
21 22 23	442	RBHSC- Royal Belfast Hospital for Sick Children
24 25 26	443	DECLARATIONS
27 28 29	444	Ethics approval and consent to participate
30 31 32	445	Ethical approval for focus groups was obtained from the Office for Research Ethics Committees
33 34	446	Northern Ireland (reference: 19/NI/0070), while research governance was obtained from the
35 36 37	447	Belfast Health and Social Care Trust, Northern Ireland. Queen's University Belfast (QUB)
38 39	448	sponsored the study in accordance with the UK Policy Framework for Health and Social Care.
40 41 42	449	Consent for publication
43 44 45	450	Consent for publication was gained.
46 47 48	451	Availability of data and materials
49 50 51	452	All data are available in this article, or supplementary materials and open access repositories.
52 53	453	Supplementary materials
54 55 56 57	454	The content has been supplied by the authors.
57 58 59	455	Competing interests
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1 2			
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5 6	456	None declared.	
7			
8	457	Funding	
9 10			
11 12	458	This work was funded by the Charitable Funds Department, Royal Belfast Hospital for Sick	
13 14 15	459	Children, by award of a PhD Research Fellowship, received by GD. Grant number 71817005.	
15 16 17	460	Funders had no direct involvement with conceptualisation or completion.	
18 19 20	461	Authors' contributions	
21 22	462	GD conceived the review, sought approvals, secured funding, led the execution, and led the	
23 24 25	463	write-up. GD, AT & RC completed the focus groups. MK, RC, AT & TD assisted with data	
26 27	464	selection, analyses, and manuscript revision. All authors read and approved the final manuscript.	
28	465		
29 30	465	Acknowledgements	
31			
32 33	466	The authors would like to acknowledge Richard Fallis, for his assistance with the search strategy,	
34 35	467	Richard McCrory, for his advice in the early stages of this review, and Jenne McDonald, for	
36 37	468	attending the first stakeholder consultation.	
38			
39	469	Authors' information	
40 41			
41 42 43	470	GD is a doctoral student at QUB and recipient of a Research Fellowship Award from the RBHSC.	
44 45	471	She has obtained a MB Bch BAO, MSc Clinical Education, MRCPCH (membership of RCPCH) and	
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47	472	has completed 6 years of paediatric specialty training.	
48			
49 50	473	MK is a General Practitioner, Associate Professor and Director of undergraduate Family	
51	474		
52	474	Medicine at the University of Calgary.	
53 54			
55	475	RC is a post-doctoral Clinical Academic Lecturer at QUB and a Paediatric Registrar.	
56			
57 58	476	AT is a Paediatric Consultant in RBHSC.	
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5 6 7	477	TD is a	a Professor of Medical Education at QUB.
8 9	478	Data a	availability
10 11 12	479	Extra	data can be accessed via the Dryad data repository at http://datadryad.org/ with the doi:
13 14	480	10.50	61/dryad.t76hdr817
15 16 17	481	REFER	RENCES
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9 10 11	876	FIGUR	E CAPTIONS
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Additional records Records identified through Additional records identified through database searching known to authors hand searching Ovid MEDLINE (n=349) (n=1) reference lists EMBASE (n=407) (n=172) Web of Science (n=320) dentification Scopus (n=665) CINAHL Plus (n=160) Records after duplicates removed (n=1359) Records excluded (n=1015): Parent participants (n=405) **Records screened** Professional participants/commentaries (n=1359) (n=196) Adult patient participants (n=177) Not healthcare (n=82) Screening Parent & professional participants (n=67) Adult & CAD patient participants (n=34) Secondary child experience (n=18) Not experience (n=18) Quantitative findings only (no quotes) (n=7) Sibling participants (n=4) Other (n=7) Articles excluded (n=245): Articles reviewed by Non-quotation format or experience of full-text and assessed for eligibility other healthcare elements (n=118) Adult & CAD participants (n=25) (n = 344) **Eligibilit** Parent participants (n=22) Not healthcare (n=19) Professional participants (n=18) Not experience (n=15) Adult participants (n=14) Parent & professional participants (n=9) Other (n=5) Included Studies included (n = 99)

Note 'Other' (n=12) reasons for excluding records/articles included: participants' ages unclear (n=4); no full-text available or unobtainable in English (n=7); same study as included article (n=1).

PRISMA-ScR Checklist

This supplementary information includes the Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR) Checklist (1).

SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED ON PAGE # (untracked version)				
TITLE	TITLE						
Title	1	Identify the report as a scoping review.	p.1				
ABSTRACT							
Structured summary	2	Provide a structured summary that includes (as applicable): background, objectives, eligibility criteria, sources of evidence, charting methods, results, and conclusions that relate to the review questions and objectives.	p.3-4, background not required in abstract as per journal guidance				
INTRODUCTION							
Rationale	3	Describe the rationale for the review in the context of what is already known. Explain why the review questions/objectives lend themselves to a scoping review approach.	p.6-8				
Objectives	4	Provide an explicit statement of the questions and objectives being addressed with reference to their key elements (e.g., population or participants, concepts, and context) or other relevant key elements used to conceptualize the review questions and/or objectives.	p.8 & 9				
METHODS							
Protocol and registration	5	Indicate whether a review protocol exists; state if and where it can be accessed (e.g., a Web address); and if available, provide registration information, including the registration number.	p.9 and reference list. Not registered.				
Eligibility criteria	6	Specify characteristics of the sources of evidence used as eligibility criteria (e.g., years considered, language, and publication status), and provide a rationale.	p.9-12 (Table 2)				
Information sources*	7	Describe all information sources in the search (e.g., databases with dates of coverage and contact with authors to identify additional sources), as well as the date the most recent search was executed.	p. 9 & 10 (Table 1)				
Search	8	Present the full electronic search strategy for at least 1 database, including any limits used, such that it could be repeated.	p. 9 & 10, Supp file 2				
Selection of sources of evidence†	9	State the process for selecting sources of evidence (i.e., screening and eligibility) included in the scoping review.	p. 10 & 11				
Data charting process‡ 10		Describe the methods of charting data from the included sources of evidence (e.g., calibrated forms or forms that have been tested by the team before their use, and whether data charting was done independently or in duplicate) and any processes for obtaining and confirming data from investigators.	p. 13 (box 2)				
Data items	11	List and define all variables for which data were	p. 13				



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SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED ON PAGE # (untracked version)
		sought and any assumptions and simplifications made.	
Critical appraisal of individual sources of evidence§	12	If done, provide a rationale for conducting a critical appraisal of included sources of evidence; describe the methods used and how this information was used in any data synthesis (if appropriate).	Critical appraisal not done. Rationale on p.11
Synthesis of results	13	Describe the methods of handling and summarizing the data that were charted.	p. 13-15
RESULTS			
Selection of sources of evidence	14	Give numbers of sources of evidence screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally using a flow diagram.	p. 15 (Figure 1)
Characteristics of sources of evidence	15	For each source of evidence, present characteristics for which data were charted and provide the citations.	p. 15 (Table 2)
Critical appraisal within sources of evidence	16	If done, present data on critical appraisal of included sources of evidence (see item 12).	N/A
Results of individual sources of evidence	17	For each included source of evidence, present the relevant data that were charted that relate to the review questions and objectives.	p. 15 (Table 2) & Dryad data
Synthesis of results	18	Summarize and/or present the charting results as they relate to the review questions and objectives.	p. 15, 16, 23-26, & supp file 4.
DISCUSSION			
Summary of evidence	19	Summarize the main results (including an overview of concepts, themes, and types of evidence available), link to the review questions and objectives, and consider the relevance to key groups.	р. 29-30
Limitations	20	Discuss the limitations of the scoping review process.	P. 30-31
Conclusions	21	Provide a general interpretation of the results with respect to the review questions and objectives, as well as potential implications and/or next steps.	p. 31
FUNDING			
Funding	22	Describe sources of funding for the included sources of evidence, as well as sources of funding for the scoping review. Describe the role of the funders of the scoping review.	p. 32

JBI = Joanna Briggs Institute; PRISMA-ScR = Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews.

* Where *sources of evidence* (see second footnote) are compiled from, such as bibliographic databases, social media platforms, and Web sites.

† A more inclusive/heterogeneous term used to account for the different types of evidence or data sources (e.g., quantitative and/or qualitative research, expert opinion, and policy documents) that may be eligible in a scoping review as opposed to only studies. This is not to be confused with *information sources* (see first footnote).
‡ The frameworks by Arksey and O'Malley (6) and Levac and colleagues (7) and the JBI guidance (4, 5) refer to the process of data extraction in a scoping review as data charting.

§ The process of systematically examining research evidence to assess its validity, results, and relevance before using it to inform a decision. This term is used for items 12 and 19 instead of "risk of bias" (which is more applicable



to systematic reviews of interventions) to include and acknowledge the various sources of evidence that may be used in a scoping review (e.g., quantitative and/or qualitative research, expert opinion, and policy document).

REFERENCE:

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key: mp, multi-purpose search; adj5, search within adjacent 5 words.

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Process	No.	Criteria	Response
Transcription	1	The data have been transcribed to an	Both focus group transcripts
		appropriate level of detail, and the	transcribed to an appropriate
		transcripts have been checked against the	level of detail and checked
		tapes for 'accuracy'	against tapes.
Coding	2	Each data item has been given equal	We reviewed all quotations to
		attention in the coding process	generate coding.
	3	Themes have not been generated from a	Themes, and the findings
		few vivid examples (an anecdotal	described herein, were
		approach), but instead the coding process	developed from a complete
		has been thorough, inclusive and	coding process of the entire
		comprehensive	dataset. The coding process
			was thorough, inclusive and
			comprehensive, as all
			quotations were used to
			generate codes, and develop
			themes. Each theme was
			developed based on numerous
			codes gathered across a range
			of articles and participants
			quotations.
	4	All relevant extracts for all each theme	Yes.
	-	have been collated	Vac
	5	other and back to the original data set	res.
	6	Themes are internally scherent	Vac
	0	consistent and distinctive	res.
Analysis	7	Data have been analysed- interpreted	Yes evident from the results
7 (101) 515	,	made sense of- rather than just	
		paraphrased or described	
	8	Analysis and data match each other- the	The analysis and findings from
	•	extracts illustrate the analytic claims	it closely match the data set.
	9	Analysis tells a convincing and well-	Yes.
		organised story about the data and topic	
	10	A good balance between analytical	Yes. Illustrative extracts have
		narrative and illustrative extracts is	been used within the results
		provided	section.
Overall	11	Enough time has been allocated to	Yes.
		complete all phases of the analysis	
		adequately, without rushing a phase or	
		giving it a once-over-lightly	
Written	12	The assumptions about, and specific	Yes, stated in the methods
report		approach to, thematic analysis are clearly	section.
		explicated	
	13	There is good fit between what you claim	Yes.
		you do, and what you show you have	
		done- i.e. described method and reported	
		analysis are consistent	

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14	The language and concepts used in the	Yes.
	report are consistent with the	
	epistemological position of the analysis	
15	The researcher is positioned as active in	Yes.
	the research process; themes do not just	
	'emerge'	

REFERENCE:

Braun V, Clarke V. Successful qualitative research: a practical guide for beginners. London: 1. SAGE Publications Ltd; 2013.

Additional Scoping Review Results: Basic numerical analysis and figures

This supplementary information includes additional findings and graphical illustrations from basic numerical analysis.

Trend in study publications over time

On average, four studies were published each year and the rate of publication rose progressively, increasing to 11 per year in 2018 (as shown in Figure 1).



Figure 1 Years of publications

Countries of origin

Figure 2 illustrates the geographical distribution of included studies on the world map and figure 3 lists countries of origin (n=21) including the number of studies pertaining to each country. Eighty-eight studies originated in western or more developed countries of which the UK (n=26), Canada (n=15), Ireland (n=9), Sweden (n=9), and the United States (n=9) were most common.

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Figure 2 Map of geographical distribution of studies



Figure 3 Number of studies per country

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Figure 4 Number of CAD participants per study and age ranges

CAD participants

The number of CAD participants per study and age ranges are illustrated in figure 4. Age ranges varied, however, most studies recruited CAD participants aged 6-17 years. Studies tended to recruit between 8 to 50 participants; seven studies recruited over 100.

Additional participants

Most studies recruited CADs only (n=72). Some studies recruited other participants (n=27); who were parents, HCPs, and teachers (figure 5).



Study methods

Most studies used a single method; interviews were most prevalent, followed by focus groups, freetext questionnaires, and workshops (figure 6). Twenty-nine studies used 2 or 3 methods; commonly, interviews combined with observation or focus groups (figure 7).

 Interviews only Interviews & other(s) Focus groups only Free-text Workshops only questionnaires only Methods







CADs' ages and genders from extracted quotes

Figure 1 illustrates the age distribution of quotations extracted. CADs aged 11-14 were more commonly quoted, while those aged 5-8 years were quoted less. Many quotations referenced CADs' ages (n=379, 56.7%) and genders (n=390, 58.3%); of which 52% were female.

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Figure 1 CAD participant ages, from extracted quotes

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Quotations presented in results section

The full quotations extracted from articles are accessible using the Dryad unique identifier <u>https://doi.org/10.5061/dryad.z08kprrc2</u>

Quote		Quote reference (first author,
no.	Quote as written in results section	year, quote no.)
1	'bond'	Ryals, 2011(49)
2	'emotional attachment'	Brown et al., 2014(04)
3	'best friend'	Ryals, 2011(33)
4	'relate to'	Ryals, 2011(32)
5	'good care'	Ångström-Brännström et al., 2008(05)
6	'strangers'	Coyne et al., 2015(02)
7	'As time passed, [] we created that bond.'	Ryals, 2011(29)
8	'very smart'	Coyne et al., 2014(02)
9	'experienced'	Hodgins et al., 1997(02)
10	'[knew] what to do'	Day et al., 2006(04)
11	'[took] care'	Noreña Peña, 2011(21)
12	'everything the best they [could]'	Boyd, 1998(03)
13	'truthful'	Brown et al., 2014(15)
14	100% with you'	Brown et al., 2014(15)
15	'just [told] you straight up.'	Brown et al., 2014(15)
16	'not tell children any lies'	Koller et al., 2010(02)
17	'nothing [was] hidden'	Coyne et al., 2016(01)
18	'really nice'	Clift et al., 2007(06)
19	'nurturing, caring and helpful people who [were] there for you'	Schmidt et al., 2007(01)
20	'good sense of [humour]'	Schmidt et al., 2007(15)
	'she knew what I was talking about, she knew what I	D 2011(20)
21	was feeling, she knew how I was feeling.'	Ryals, 2011(20)
22	'took time to get to know'	Brown et al., 2014(06)
23	'real conversations, not just [HCP]-patient discussions'	Schmidt et al., 2007(31)
24	'down to earth'	Ryals, 2011(45)
25	'a lot in common'	Ryals, 2011(22)
26	'you gotta have trust.'	Ryals, 2011(42)
27	'satisfied'	Wangmo et al. 2016(05)
28	'happy'	Corsano et al. 2015(04)
29	'good memories'	Manookian et al, 2014(03)
30	'open up'	Ryals, 2011(42)
31	'tell anything'	Beresford et al, 2003(06)
32	'cure [the] illness'	Han et al, 2011(01)
-	'whatever happens I let them [HCPs] do what they	
33	have to do to help me get better.'	Boyd & Hunsberger, 1998(01)
34	'individually [they're] all heroes.'	Anderson et al., 2017(04)
	'Because you can save people [] I'm going to be a	Ω Dlausson et al 2006/01)
35	children's doctor.'	
36	'everything [was] always clear'	Schalkers et al., 2014(04)
37	'together'	Dell'Api et al., 2007(07)
38	'seriously'	Clift et al., 2007(05)
39	'as an equal'	Clift et al., 2007(05)

	BMJ Open	
40	'into all the conversations'	Covne et al., 2011(15)
41	'as much as they [talked to the] parents'	Edgecombe et al., 2010(03)
42	'[breaking] the words down in an easier explanation'	Coyne et al., 2006(13)
43	'listening'	Coyne et al., 2006(03)
44	'I tell them I don't want this and they understand'	Coyne et al., 2006(03)
	'me because I know my own body, my parents	
	because they know what's best for me [] and the	
45	paediatrician because they are qualified.'	Garth et al., 2009(02)
46	'most important, as in the end it is about [them]'	Schalkers et al., 2014(04)
47	'brilliant'	Moules, 2009(01)
48	'interesting and informational'	Lowes et al., 2015(02)
49	'learn something new'	Lowes et al., 2015(03)
50	'comfortable and confident'	Lowes et al., 2015(02)
51	'make better decisions'	Coyne & Kirwan, 2012(23)
52	'fully informed'	Coyne & Kirwan, 2012(23)
	'I'm asking the doctor more questions myself than	
53	having my Dad do it.'	Coyne et al., 2006(15)
54	'nasty'	McPherson et al., 2018(03)
55	'[seeming] that concerned'	Coyne, 2006b(02)
56	'too busy'	Coyne et al., 2006(28)
57	'big words'	Coyne et al., 2006(16)
	'they [HCPs] might ask me "is that ok" and they ask me	
	in such a way that I kind of feel like I don't have any	
58	other option but [to] agree with them'	Coyne et al., 2015(01)
59	behind the curtains'	Coyne et al., 2011(20)
60	'in the middle'	Coyne et al., 2006(18)
	You try to say something but then your parents just	
	say shrinni [] They come out and say, [] did you	
	asked them and then you say on you didn't let me	
61	they say rubbish!	Hawthorne et al 2011(04)
62	(rejected)	Cove et al. 2006(17)
63	'like a piece of machinery'	Covne 2006b (04)
64	'hard to talk'	Anderson et al. 2017(01)
04		/ (101)