

A scoping review of ‘think-family’ approaches in healthcare settings

Jenny Woodman¹, Antonia Simon², Hanan Hauari¹, Ruth Gilbert³

¹UCL-Institute of Education, Thomas Coram Research Unit, 27/8 Woburn Square, London WC1H 0AA, UK

²UCL-Institute of Education, Social Science Research Unit, 27/8 Woburn Square, London WC1H 0AA, UK

³UCL-GOS- Institute of Child Health, 30 Guilford Street, London, WC1N 1EH, UK

Address correspondence to Jenny Woodman, E-mail: j.woodman@ucl.ac.uk

ABSTRACT

Background ‘Think-family’ child health approaches treat child and parent/carer health as inter-related. They are promoted within health policy internationally (also called ‘family paediatrics’ or ‘whole-family’, ‘family-centred’ approaches or ‘child-centred’ approaches within adult services).

Methods We reviewed publications of think-family interventions. We developed a typology of these interventions using thematic analysis of data extracted from the included studies.

Results We included 62 studies (60% USA and 18% UK); 45/62 (73%) treated the parent as patient, helping the child by addressing parental mental health, substance and alcohol misuse and/or domestic violence. Our typology details three common mechanisms of change in relevant interventions: screening, health promotion and developing relationships (inter-professional and parent-professional).

Conclusions Policy-makers, practitioners and researchers can use our typology to develop and evaluate think-family approaches within healthcare. Strong relationships between parents and professionals are key in think-family approaches and should be considered in service design. Although helping the child through the parent may be a good place to start for service development, care is needed to ensure parental need does not eclipse child need. Strategies that reach out to the parent behind the child (child as patient) and which work simultaneously with parent and child warrant attention.

Keywords children, drug abuse, health services, family, parents

Introduction

A ‘think-family’ approach aims to assess need and provide services to individuals while appreciating that the health, wellbeing and behaviour of children and their parents (carers) are inter-related.^{1–4} This perspective remains a firm priority in health policy England and Wales, underpins universal public health initiatives,⁵ stands behind the law^{6,7} and health policy⁸ for young carers and is evident in guidance from the General Medical Council (GMC)⁹ and the National Institute for Health and Care Excellence (NICE)¹⁰ about responses to child abuse and neglect within health care services.¹¹ Internationally, there are calls for ‘family paediatrics’ (e.g. United States),¹² ‘family-centred’ health care (e.g. United States and Australia)^{12–14} or ‘a child-centred approach’ within adult health services (e.g. Finland).¹⁵

Within child health, think-family approaches have been exemplified by two types of intensive and home-based

interventions, both focusing on empowering caregivers to more effectively parent: manualized home visiting by nurses for a select group of young and socially disadvantaged mothers and their babies, e.g. Family Nurse Partnership (FNP) in the UK^{16–19} and multi-systematic therapy, an individualized programme for families with children and youth who have serious behavioural problems.^{19,20} There is substantial evidence supporting the effectiveness of multi-systematic therapy²⁰ and FNP,^{17,18,21–25} though a recent randomized controlled trial concluded that FNP was not cost-effective in a UK setting.¹⁹

Jenny Woodman, Lecturer in Child and Family Policy

Antonia Simon, Research Officer

Hanan Hauari, Research Officer

Ruth Gilbert, Professor of Clinical Epidemiology

In contrast to the body of research on these programmatic and intensive family-based interventions, we know much less about think-family perspectives within everyday healthcare practice.¹ Our scoping review addresses this question by reviewing what has already been tried (and sometimes tested) and produces a first step typology to develop service modifications which are feasible, acceptable and based on well-theorized mechanisms of change.²⁶

Methods

We aimed to inform further development and evaluation of think-family interventions within healthcare by reviewing, conceptually defining and giving examples of relevant interventions which have already been implemented.

Like most scoping reviews, we prioritized breadth over depth,^{27,28} prioritized conceptual saturation^{29,30} over comprehensive searches and did not quality appraise the included studies.^{27,28,31} We thematically synthesized data from our included studies to generate a ‘think-family’ typology (see Supplementary Material 1 ‘details of thematic analysis, for full description’).³⁰

Search strategy

We searched PUBMED, Social Science Citation Index and Google/Google Scholar for English language papers from 1 January 2007 to 17 July 2017, using multiple search terms for the following concepts: family AND healthcare need (physical, mental and psychosocial, including child abuse and neglect) AND healthcare setting. See Supplementary Material 2 ‘search development and final strategy’ for full details. We employed a systematic search strategy to minimize the chances that our search results (and theory) were overly dominated by interventions already familiar to the research team.

Inclusion criteria

We included studies in English from OECD countries which reported a healthcare response to health needs in a child or young person *and* parent. See Supplementary Material 3 ‘list of inclusion criteria’ for more details on how criteria were applied.

Screening

A subset of study abstracts ($N = 296$; 4.3%) were screened for relevancy against the inclusion criteria (see above) by at least two of the three researchers in order to check that we had a shared understanding of ‘think-family’ and the inclusion criteria. The three sets of reviewer pairs (JW/AS, AS/

HH and JW/HH) had an ‘include/exclude’ agreement rate of 99%, 93% and 91%, respectively. The remaining studies were screened by a single researcher and any queries discussed by the research team.

Data extraction

For each study, we systematically extracted information about which health needs were being addressed and in which family members (including age of child), the types of think-family interventions (details of approach, aims and core characteristics, setting, healthcare professional involved, mode and intensity of delivery) and study type. One researcher (A.S. or H.H.) extracted the information for each study, which was then checked by J.W.

Results

Our searches generated 6841 unique publications. We screened the full text of 121 publications and included 62 studies in the review (76 publications, information about six interventions were reported within multiple publications); see Supplementary Materials 2 ‘search development and final strategy’ and 4 ‘flow of studies through the review’. See Supplementary Material 5 ‘characteristics of included studies’ for a description of each study included in our review.

Which health needs in which family members?

Figure 1 depicts the typology we generated for understanding who constituted the ‘patient’ in the interventions we found. We identified three approaches (Fig. 1). The vast majority ($N = 45/62$; 73%) focused on identifying or addressing health need in the parent in order to improve parenting capacity and (indirectly) the wellbeing of the child. These interventions took the parent as ‘patient’ and aimed to see ‘the child behind the adult’ (Fig. 1, Diagram A). A fifth of the interventions ($N = 13/62$; 21%) identified health need in both parents and children simultaneously (Fig. 1, Diagram B); 8% ($5/62$) worked directly with the child’s health needs and identified and addressed parental health through the child (Fig. 1, Diagram C). Table 1 shows how each of the 62 studies were classified in terms of these three approaches (labelled A, B and C to correspond to Fig. 1).

The overwhelming majority of studies ($N = 59/62$; 95%) focused on the inter-related health needs of *mothers* and children.

The final row in Table 1 shows that the health needs addressed across the 62 interventions were predominantly parental mental health (largely maternal depression; $40/62$; 65%), parental substance/alcohol misuse ($N = 19/62$; 31%)

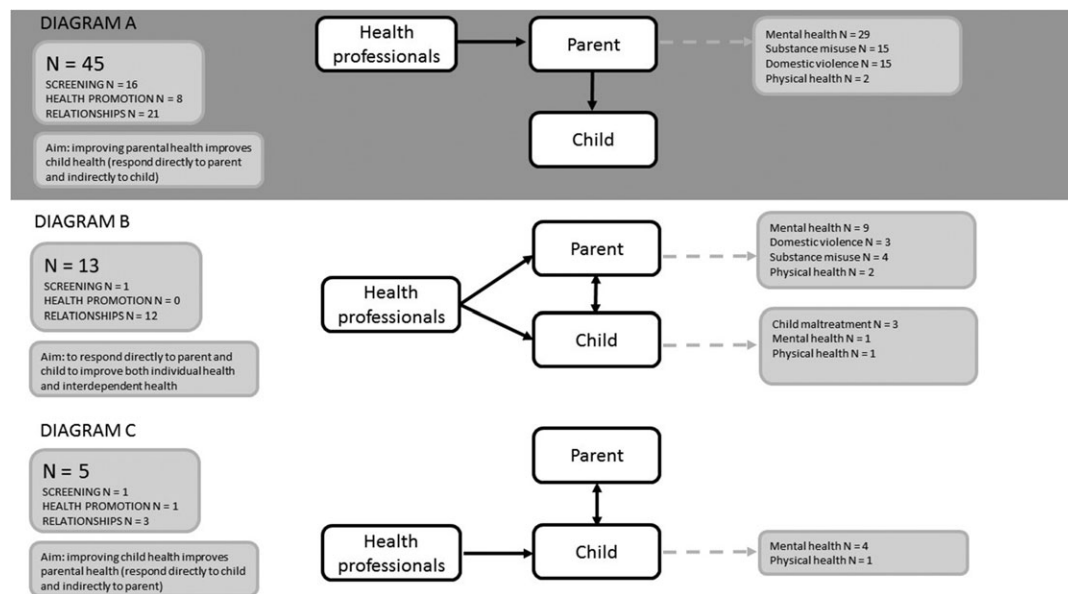


Fig. 1 Who is the primary patient (child, parent, both) in think-family interventions?

and domestic violence between caregivers ($N = 18/62$, 29%) whilst only a minority of interventions ($N = 5/62$; 8%) targeted parental (always maternal) physical ill health (including chronic illness,³² smoking^{33–35} and weight).^{33,36} As the ‘age of child’ column in Table 1 shows, the majority of think-family interventions focused on preschool children (41/62, 66%) including 35/62 (56%) that included children under 1 y and almost a third which *only* focussed on this very young population (18/62;^{37–49} 29%). This is consistent with the focus on postnatal depression in many of these studies (data in Table 1 and Fig. 1).

What type of think-family interventions?

Three groups of think-family interventions emerged in our analysis, with subgroups. We used these groups to structure all our figures and tables:

- **Screening** of parents and/or children at presentation to healthcare settings in order to improve detection of health need $N = 18/62$ (29%)
- **Health promotion** through providing educational material to parents to help them understand and manage their own and their children’s health $N = 9/62$ (15%)
- Approaches which put **relationships** between professionals, between parents and their peers (mentoring) or between parents and professionals at the heart of the intervention and in which the relationship itself is presented as the underlying mechanism of change ($N = 35/62$; 56%).

Screening

Some studies described screening (identification) protocols with no details about subsequent pathways (‘screening only’ $N = 6$), others described screening protocol *and* referral pathways (‘screening + respond’ $N = 6$) or screening protocols, (sometimes) referral pathways *and* a response to families that screen ‘positive’ from the healthcare service conducting the screening (‘screening + refer + respond’ $N = 6$) In this latter group, health care professionals used structured questionnaires or routine enquiry (direct questioning)¹⁰⁶ for opportunistic identification of domestic violence, parental substance or alcohol misuse or depression/self-harm (mental health issues) in parents. Screening was mainly universally applied either to parents of children attending health care settings (usually for well-child visits/routine check-ups; $N = 12$)^{37–41,50–53,55,69,73} or as a ‘parent finding’ exercise among adults presenting to health care services ($N = 5$, Emergency Departments^{56,58,63} or primary care healthcare services)^{64,66}

Referral pathways included children’s social care or country-specific equivalent ($N = 5$),^{39,55,56,58,63} health colleagues ($N = 4$),^{38,39,55,61} including to adult mental health services ($N = 2$),^{38,39} an internal safeguarding team ($N = 1$)⁵⁵ and one to paediatric outpatients ($N = 1$).⁶¹ One study reported referral to domestic violence charities.⁵⁵ Responses within the healthcare service included: phone calls and home visits for monitoring of mental health treatment adherence and symptoms ($N = 1$),⁴⁰ motivational interviewing and relationship building to increase engagement of parents with the service ($N = 3$),^{64,69,73} engaging mothers in a peer-to-

Table 1 Overview of included studies, studies grouped by results of thematic synthesis

Study * = Multiple Publications describing the study For full details of each study, see supplementary material, Tables 6a-c	Health Need								Setting					Age of child****						Study type			
	Type of response*	Parent			Child				Primary care	Health centre & home visits	Outpatient	Inpatient	ED	In years						Un-clear	E	D	R
		Domestic Violence	Mental Health	Substance misuse**	Physical health	Mental health***	Physical health	Child maltreatment						0-1	1-4	5-10	10-15	15+					
SCREENING N = 18																							
SCREENING ONLY N = 6 USA N = 6																							
Allen 2010, USA ⁵⁰	C				X			X●					X	X							X		
Bair-Merritt 2008, USA ⁵¹	A	X								X●										X	X		
Friedman 2016, USA ³⁷	A		X					X●					X								X		
Fothergill 2013, USA ⁵²	B		X					X●						X	X						X		
Johnson 2009, USA ⁵³	A	X								X●	X●									X	X		
Vanderburg 2010, USA ⁵⁴	A	X							X*				X	X							X		
SUB-TOTAL		3	2	0	0	1	0	0	3	1	2	1	0	3	3	11	0	0	2	6	0	0	
SCREENING + REFER N = 6 USA N = 2, UK N = 2, Australia N = 1, Netherlands (NL) N = 1																							
Asiegbunam 2017, UK ⁵⁵	A	X								X●										X	X		
Bournnell 2010, Australia ⁵⁶	A	X											X◇							X	X		
Carroll 2013, USA ³⁸	A		X					X●						X							RCT		
Diderich* 2013, NL ⁵⁷⁻⁶²	A	X	X	X									X◇	X	X	X	X	X			X		
Kaye 2009, UK ⁶³	A		X										X◇							X	X		
Sheeder 2009, USA ³⁹	A		X							X●				X							X		
SUB-TOTAL		3	4	1	0	0	0	0	1	0	2	0	3	3	1	1	1	1	3	4	2	0	
SCREENING + REFER + RESPOND N = 6 (USA N = 4, Australia N = 1, Netherlands N = 1)																							
Gjerdigen 2008, USA ⁴⁰	A		X					X●						X							X		
Hegarty 2016, Australia ⁶⁴	A	X						X◇											X		X		
Loeffen* 2011, NL ^{65,66}	A	X							X◇										X	X			
Dubowitz* 2009, USA ⁶⁷⁻⁷²	A	X	X	X				X●						X	X						RCT		
Kornfeld 2012, USA ⁴¹	A	X	X					X●						X							X		
Olin 2016, USA ⁷³	A		X					X●	X●											X	X		
SUB-TOTAL		4	4	1	0	0	0	0	5	2	0	0	0	3	1	0	0	0	3	3	1	1	
TOTAL SCREENING		10	10	2	0	1	0	0	9	3	4	1	3	9	5	2	1	1	8	13	3	2	
HEALTH PROMOTION N = 9 USA N = 6, UK N = 1, Australia N = 1, France N = 1																							
Als 2015, UK ⁷⁴	C				X						X●			X	X	X					RCT		
Altman 2011, USA ⁴²	A		X								X◇			X							RCT		
Bailhache 2016, France ⁴³	A		X								X◇			X							RCT		

Continued

Table 1 Continued

Study	Type of response*	Health Need						Setting					Age of child****						Study type			
		Parent			Child			Setting					In years						Study type			
		Domestic Violence	Mental Health	Substance misuse**	Physical health	Mental health***	Physical health	Child maltreatment	Primary care	Health centre & home visits	Outpatient	Inpatient	ED	0-1	1-4	5-10	10-15	15+	Un-clear	E	D	R
Beardslee 2013, USA ⁷⁵	A	X	X					X*					X	X	X		X	X	RCT	X		
Hornor 2015, USA ⁷⁶	A	X						Not clear										X	RCT			
Jones 2013, Australia ⁴⁴	A	X									X◇		X						RCT			
Ondersma 2007, USA ⁷⁷	A			X							X◇							X	RCT			
Reese 2014, USA ⁴⁵	A	X									X◇		X						RCT			
Reich 2012, USA ⁴⁶	A	X							X◇				X						RCT			
TOTAL H. PROMOTION		0	7	2	0	1	0	1	1	0	6	0	6	2	2	1	1	2	8	1	0	
RELATIONSHIPS N = 35																						
JOINT WORKING N = 5 USA N = 2, UK N = 2, Denmark N = 1																						
Abatemarco 2008, USA ⁷⁸	B	X					X	X●					X	X					X			
Goodson 2013, USA ⁷⁹	B					X		X					X	X						X		
Holge-Hazelton 2010, Denmark ⁸⁰	A	X	X	X				X●					X	X					X			
Rachamim 2011, UK ⁸¹	B	X	X	X								X◇●	X	X	X	X	X				X	
Woodman 2014, UK ⁸²	B	X	X	X			X	X●					X	X	X	X	X				X	
SUB-TOTAL		3	4	3	0	1	0	4	0	0	0	1	5	5	2	2	2	0	2	3	0	
CASE MANAGEMENT N = 7 USA N = 6, UK N = 1																						
Arai 2015, UK ⁸³	A	X								X●								X				X
Bannick 2015, USA ⁸⁴	B	X					X				X●			X	X						X	
Cheng 2008, USA ⁸⁵	B						X					X●				X			RCT			
Morrow 2010, USA ⁴⁷	A	x	X							X●			X						RCT			
Thompson 2013, USA ⁸⁶	A		X						X*				X	X							X	
Vasquez 2008, USA ⁸⁷	A		X								X●		X	X							X	
Weinreb 2007, USA ⁸⁸	A	X	x					X*										X			X	
SUB-TOTAL		0	4	4	0	1	0	1	1	2	2	1	3	3	1	1	0	2	2	4	1	
PEER SUPPORT FOR FAMILIES N = 3 Australia N = 1, Netherlands N = 1, Norway N = 1																						
Benestad 2017, Norway ³⁶	C				X		X			X●					X	X			RCT			
Prosman 2014, Netherlands ^{89,90}	A	X	x					X◇	X◇				X	X	X	X	X		X			
Taft* 2009, Australia ^{91,92}	A	X	X					X◇●					X						RCT			
SUB-TOTAL		2	2	0	1	0	1	0	2	1	1	0	2	1	2	2	1	0	3			
PROFESSIONAL-PARENT OR PROFESSIONAL-CHILD COMMUNICATION N = 4 USA N = 2 UK N = 2																						

Continued

Table 1 Continued

Study	Health Need							Setting					Age of child****						Study type				
	Type of response*	Parent			Child				Primary care	Health centre & home visits	Outpatient	Inpatient	ED	In years						Un-clear	E	D	R
		Domestic Violence	Mental Health	Substance misuse**	Physical health	Mental health***	Physical health	Child maltreatment						0-1	1-4	5-10	10-15	15+					
Brown 2013, USA ⁹³	A	X						X●						X	X	X	X		X				
Chew-Graham 2009, UK ⁴⁸	A		X					X◇					X							X			
Lewis* 2017, UK ^{94,95}	B	X						X◇										X	X				
Wissow 2008, USA ⁹⁶	B		X					X●	X	X●					X	X			RCT				
SUB-TOTAL		1	3	0		0	0	4	2	1			1	1	2	2	1	1	3	1			
MOTIVATIONAL INTERVIEWING, COUNSELLING AND PARENT TRAINING N = 8 USA N = 5, Denmark N = 1, Norway N = 1, Germany N = 1																							
Benestad 2017, Norway ³⁶	C				X		X			X●					X	X			RCT				
Bjerregaard 2011, Denmark ⁹⁷	A			X							X●		X	X	X	X			X				
Broning 2012, Germany ⁹⁸	B			X						X◇				X	X				RCT				
Cluxton-Keller 2015, USA ⁹⁹	B		X					X*											RCT		X		
Dietz 2015, USA ¹⁰⁰	C					X			X						X	X			RCT				
Fernandez 2015, USA ¹⁰¹	A		X	X				X●					X	X	X	X			RCT				
Gayes 2014, USA ³⁴	B				X		X	Not clear	X	X	X	X	X				X		RCT				
Lozano 2010, USA ³⁵	A				X		X			X●	X			X	X	X			RCT				
SUB-TOTAL	C	0	2	4	3	1	3	2	1	3	2		2	4	7	7	2		7		2		
THERAPEUTIC RELATIONSHIP BETWEEN PROFESSIONAL AND PARENT N = 9 USA N = 2, UK N = 3, Australia N = 2, Norway N = 1, New Zealand N = 1																							
Berkule 2014, USA ⁴⁹	A		X					X●					X						RCT				
Fergusson 2013, NZ ¹⁰²	A	X	X	X					X				X	X	X				RCT				
Goodman 2015, USA ¹⁰⁷	A		X						X									X	RCT				
Gullbra 2016, Norway ³²	B		X	X	X			X●					X	X	X	X	X		RCT				
Kemp 2008, Australia ¹⁰³	A		X	X					X				X						RCT				
Longhi 2016, UK ¹⁰⁴	B		X						X				X						X				
Matthey 2008, Australia ¹⁰⁵	C					X							X						RCT				
Robling 2016, UK ³³	A		X	X	X				X				X						RCT				

Continued

Table 2 Common intervention mechanisms and components

	<i>Typology: overlap between main intervention groups</i>			<i>Other intervention components:</i>				
	<i>Screening</i>	<i>Health promotion</i>	<i>Relationships</i>	<i>Motivational interviewing or CBT* techniques used with parents</i>	<i>Training for professionals</i>	<i>Home visits by professionals</i>	<i>Professional team meetings</i>	<i>Access to support from colleagues or other professionals</i>
SCREENING								
SCREENING ONLY								
Allen, 2010 ⁵⁰	x		x		x			x
Bair-Merritt, 2008 ⁵¹	x				x	x		
Friedman, 2016 ³⁷	x							
Fothergill, 2013 ⁵²	x							
Johnson, 2009 ⁵³	x				x			
Vanderburg, 2010 ⁵⁴	x					x		
SCREENING+REFER								
Asiegbunam 2017, UK ⁵⁵	x				x		x	
Bournnell 2010, Australia ⁵⁶	x				x			
Carroll 2013, USA ³⁸	x							
Diderich* 2013, NL ⁵⁷⁻⁶²	x							
Kaye 2009, UK ⁶³	x							x
Sheeder 2009, USA ³⁹	x							
SCREENING+REFER+RESPOND								
Gjerdingen 2008, USA ⁴⁰	x							
Hegarty 2016, Australia ⁶⁴	x			x				x
Loeffen* 2011, NL ^{65,66}	x	x	x		x			
Dubowitz* 2009, USA ⁶⁷⁻⁷¹	x		x	x	x			x
Kornfeld 2012, USA ⁴¹	x						x	
Olin 2016, USA ⁷³	x	x	x	x				
HEALTH PROMOTION								
Als 2015, UK ⁷⁴		x						
Altman 2011, USA ⁴²		x						
Bailhache 2016, France ⁴³	x	x						
Beardslee 2013, USA ⁷⁵		x	x	x				
Honor 2015, USA ⁷⁶		x			x			
Jones 2013, Australia ⁴⁴		x		x				
Ondersma 2007, USA ⁷⁷		x	x	x				
Reese 2014, USA ⁴⁵		x		x				
Reich 2012, USA ⁴⁶		x			x			

Continued

Table 2 Continued

	Typology: overlap between main intervention groups			Other intervention components:				
	Screening	Health promotion	Relationships	Motivational interviewing or CBT* techniques used with parents	Training for professionals	Home visits by professionals	Professional team meetings	Access to support from colleagues or other professionals
RELATIONSHIPS								
JOINT WORKING								
Abatemarco 2008, USA ⁷⁸		x	x				x	
Goodson 2013, USA ⁷⁹	x	x	x			x		
Holge-Hazelton 2010, Denmark ⁸⁰			x				x	
Rachamim 2011, UK ⁸¹	x		x				x	x
Woodman 2014, UK ⁸²			x				x	x
CASE MANAGEMENT								
Arai 2015, UK ⁸³			x					x
Bannick 2015, USA ⁸⁴			x				x	x
Cheng 2008, USA ⁸⁵		x	x			x		
Morrow 2010, USA ⁴⁷			x			x		x
Thompson 2013, USA ⁸⁶		x	x			x		
Vasquez 2008, USA ⁸⁷			x					
Weinreb 2007, USA ⁸⁸			x	x				
PEER SUPPORT FOR FAMILIES								
Benestad 2017, Norway ³⁶		x	x	x				
Prozman 2014, NL ^{89,90}		x	x	x	x	x		x
Taft* 2009, Australia ^{91,92}			x			x		x
PROFESSIONAL-PARENT/CHILD COMMUNICATION								
Brown 2013, USA ⁹³	x		x	x	x			
Chew-Graham 2009, UK ⁴⁸			x					
Lewis* 2017, UK ^{94,95}	x		x		x			
Wissow 2008, USA ⁹⁶			x		x			
MOTIVATIONAL INTERVIEWING, (BRIEF) COUNSELLING AND PARENT TRAINING								
Benestad 2017, Norway ³⁶		x	x	x				
Bjerregard 2011, Denmark ⁹⁷	x	x	x	x				
Broning 2012, Germany ⁹⁸		x	x	x				
Cluxton-Keller 2015, USA ⁹⁹		x	x	x				
Dietz 2015, USA ¹⁰⁰			x	x				
Fernandez 2015, USA ¹⁰¹		x	x	x				

Continued

Table 2 Continued

	Typology: overlap between main intervention groups			Other intervention components:				
	Screening	Health promotion	Relationships	Motivational interviewing or CBT* techniques used with parents	Training for professionals	Home visits by professionals	Professional team meetings	Access to support from colleagues or other professionals
Gayes 2014, USA ³⁴			X	X				
Lozano 2010, USA ³⁵			X	X	X			
THERAPEUTIC RELATIONSHIP BETWEEN PROFESSIONAL AND PARENTS								
Berkule 2014, USA ⁴⁹	X		X					
Fergusson 2013, NZ ¹⁰²	X		X			X		X
Goodman 2015, USA ¹⁰⁷	X		X			X	X	
Gullbra 2016, Norway ²²			X			X		
Kemp 2008, Australia ¹⁰³			X			X		
Longhi 2016, UK ¹⁰⁴		X	X			X		
Matthey 2008, Australia ¹⁰⁵		X	X			X		
Robling 2016, UK ³³			X			X		
Woodman 2013, UK ³³			X			X		

peer home visiting programme for domestic violence (mentor mothers $N = 1$),⁶⁵ and assessment and counselling from a clinical social worker who was part of the healthcare team.⁴¹ Four (of six; 67%) studies reporting a response following screening relied on ‘relationships’ and/or activating parents through motivational interviewing (Table 2). Seven (7/18; 39%) of the ‘screening’ studies consisted of or incorporated training for professionals about how to implement the screening procedures (Table 2). Table 1 shows that screening interventions took place across a range of relevant settings, they were most commonly designed for primary care (primary care, $N = 9/18$ (50%)) and all but one of the screening interventions with a full pathway (screen + refer + respond) was implemented in primary care.

Health promotion

These nine studies all sought to promote health literacy among parents by providing information and guidance in written, online or multimedia format about managing parental stress in relation to crying babies and/or discipline in children (with a view to reducing traumatic head injury in infants and/or physical child abuse $N = 5$),^{42,43,45,46,76} managing parental depression ($N = 2$)^{44,75} or substance/alcohol misuse ($N = 1$),⁷⁷ or psychosocial reactions of parents, siblings and children following an admission to paediatric intensive care ($N = 1$).⁷⁴ As Table 1 shows, all but one of these health promotion interventions were delivered as part of inpatient hospital admissions and as Supplementary Material 5 (Table 5b) ‘‘Characteristics of included studies’’ details five of these were in maternity units.^{42–45,77}

Relationships

These 35 interventions fall broadly into three groups: those that focus on relationships between professionals (‘joint working’ $N = 5$), those focusing on relationships between parents and their peers (‘peer support’ $N = 3$) and those focusing on relationships between the healthcare provider and families (usually the parent; ‘professional-parent or professional child communication’, ‘motivational interviewing, counselling and parent training’ and ‘therapeutic relationships between professionals and parents’ $N = 23$). One intervention has been categorized twice within sub-groups.³⁶

The five ‘joint-working’ interventions introduced team meetings into routine practice in order to reflect on decision making,^{78,80,82} and to monitor families,⁸² modified services to provide integrated mental and child health services⁷⁹ or provided expert in-house support for healthcare professionals. As table shows, four (4/5; 80%) occurred in primary care^{78–80,82} and 1/5; 20% in an Emergency Department.⁸¹ The three peer support interventions we found used ‘mentor

mothers' for mothers who had domestic violence identified in primary care settings^{89–91} or relied on peer support as part of an outpatient intervention for families with obese children (Table 1).³⁶ The set of interventions that focus on relationships between the healthcare provider and families is complex and can be sub-grouped into interventions which (Table 1):

- Employ **case-management** strategies ($N = 7$). These studies involved a collaborative process of assessment, planning, facilitation and advocacy for child and/or parent by a dedicated case-worker, emphasizing improved access to services via co-location of services for specific groups such as homeless families⁴⁷ and/or having named professional to needs assess, coordinate services and follow-up families.^{85–88} As Table 1 shows, these studies were spread across primary care ($N = 1/7$; 14%),⁸⁸ home visiting services (1/7; 14%),⁸⁶ paediatric outpatients (2/7; 29%),^{47,83} paediatric inpatient (2/7; 29%)^{84,87} and Emergency Departments (1/7; 14% adolescent presentations).⁸⁵
- Seek to improve the **communication between families and health professional** ($N = 4$). Three of the four studies described communication training for professionals to: increase parental perception of paediatric medical assistants as empathetic,⁹³ promote willingness to disclose / elicit parental mental health problems^{93,96} and concerns from children,⁹⁶ or hold difficult conversations about domestic violence.⁹⁴ All four studies were in primary care settings.
- **Motivational interviewing, brief counselling and parent-training** ($N = 8$). Six interventions used motivational interviewing, described as a directive patient-centred counselling style to elicit behaviour change (e.g. health eating or alcohol consumption) by exploring and resolving ambivalence,^{35,97,100,101} and promoting help-seeking behaviour,^{98,101} based on an empathetic relationship between professional and patient.³⁴ Two further studies described interventions using cognitive behavioural therapy and/or behavioural parent-training to sensitize parents to the impact of their health issues on children and improve problem solving.^{99,100} As Table 1 shows, these interventions took place across a range of healthcare settings (primary care $N = 2/8$; 25%),^{99,101} home visiting services (1/8; 13%),¹⁰⁰ paediatric outpatient (3/8; 38%)^{35,36,98} and paediatric inpatient (2/8; 25%).^{35,97}
- Interventions relying on **therapeutic relationships between professional and parent** ($N = 9$) were described as 'relationship-based'^{49,79} and relying on 'a positive partnership',¹⁰² trusting³² or respectful relationships¹⁰³

between professional and parent. They were all multi-component (Table 2). Five of them were delivered by nurses as part of home visiting programmes (Table 2),^{33,79,102–104} including FNP. These five home visiting studies addressed parental substance abuse,¹⁰² parental mental health¹⁰⁷ or both^{33,103,104} The FNP study also aimed to reduce maternal smoking and weight (maternal physical health).³³ One study described two interventions to improve maternal mental health delivered to parents of children during well child visits in paediatric primary care in the USA⁴⁹ and one study evaluated a mother-and-baby residential sleep.¹⁰⁵ Most ($N = 7/9$; 78%) of these therapeutic relationship interventions were intensive, programmatic and home-based (i.e. not delivered with 'normal' healthcare settings or resources). However, two further studies reported the use of therapeutic relationships for parents with substance or alcohol misuse,^{32,108} mental health problems³² or severe illness^{32,108} within everyday primary care in the UK¹⁰⁸ and Norway.³²

As Table 1 shows interventions were most commonly set in primary care ($N = 26/62$; 42%). The vast majority of studies were conducted in America (37/62; 60%), almost a fifth (11/62; 18%) in England, seven (11%) in Australia ($N = 6$) and New Zealand ($N = 1$) and the remainder across Europe.

Common intervention mechanisms and components (Table 2)

As Table 2 shows, we found that screening, health promotion and relationship-based approaches overlapped. Table 2 also reports common intervention components across the studies: motivational interviewing techniques with parents, training for health care providers, home visits, regular team meetings for professionals and increased access for health care professionals to support from experts, usually dedicated child safeguarding professionals.

Which study designs?

The majority of interventions we found had been evaluated (46/62; 74%), including 28 randomized controlled trials (see Table 1). The aims, implementation and outcome measures of the evaluated interventions were extremely diverse, which will make difficult a review of effectiveness using our 62 studies.

Discussion

Main findings

We found 62 interventions aiming to address the inter-related health needs of children and parents within health

Box 1 What do we already know and what does our study add?

There have been three other reviews on family-perspectives (think-family) within services and/or programmatic interventions, two of them scoping reviews: Morris and colleagues (2008) reviewed literature and elicited submissions from expert academic commentators in their scoping review on 'whole family' services for socially social excluded and disadvantaged families in England and internationally, across health, social care and housing services.¹ This review examined conceptualizations of socially disadvantaged and excluded families and approaches to providing 'whole family' services for these groups, including theoretical frameworks (no shared included studies with our review as our search dates did not overlap). Secondly, Shields and colleagues conducted a systematic review of the effectiveness of family-orientated interventions for hospitalized children aged under 12 years and their families (2012), published as a Cochrane review (with one included RCT) and a journal article (with one included quasi-experimental study).^{109,110} The low number of included studies ($N = 2$) means that Shields and colleagues had little data to synthesis or on which to base any conclusions (no shared included studies with our review). Thirdly, McCalman and colleagues (2017) conducted a scoping review of 'family-centred interventions' in Australia, Canada, New Zealand and the United States, focusing exclusively on interventions delivered in primary care for indigenous children aged five and under (18 included studies, five of which were evaluation studies (three RCTs) and only one of which was rated as 'good quality'; no shared included studies with our review).¹⁴ McCalman's review will form the basis of a Cochrane Effectiveness Review.¹¹²

We have been the only review to focus on meeting the inter-related health needs of parents and children (i.e. there had to be a health need addressed in both parent and child) which explains the lack of overlap in included studies: none of our 62 included studies overlapped with those of the other reviews. Our searches picked up only one of the studies in the existing reviews; this was a study included by McCalman¹¹³ which we excluded because it was solely about prenatal care.

Although the reviews were published over 9 years, all three concluded that relevant 'interventions were still in their infancy',¹ evidence was 'in an early stage of development'¹⁴ and there was 'little high quality quantitative research' in this field.¹⁰⁹ In short, all highlight the on-going uncertainty about how to translate a 'think-family (or family-centred) policy into practice'.^{1,14}

Despite the lack of shared included studies between the two existing scoping reviews and our own, there were many shared findings: interventions were predominantly focussed on the mother as patient (or service user),^{1,14} were often focused around substance and alcohol misuse or mental health problems,^{1,14} often included a screening element,¹ aimed to improve 'self-care',¹⁴ increase maternal knowledge (what we termed 'health promotion')¹⁴ and improve engagement of mothers with healthcare (or other services)^{1,14} through therapeutic relationships with healthcare (or other service) providers.^{1,14} The two existing scoping reviews, our own and other studies¹¹⁴ have reported that a trusting and compassionate relationship between parent and professional is a key (or even defining) feature of relevant approaches for children and young people. Although the conclusions of all three scoping reviews are necessarily cautious about recommending specific practice change (their primary purpose being to 'scope' the field), together the shared findings support stronger hypotheses, primarily about the importance of the therapeutic relationships and positive communication between professionals and families. Our review suggests that such a relationship between professionals and parents might maximize the potential effectiveness of other intervention components (structured screening programmes, health promotion advice, motivational interviewing and/or other behaviour change interventions) through increasing parental engagement with services. In our review, it was largely intensive home visiting interventions that based their intervention around building a therapeutic relationship with parents. However, there were also two primary care studies in this group,^{32,108} suggesting that therapeutic relationships might be feasible (and indeed already routine practice) in this setting which also has repeated contact with patients over time. From the other interventions in our review, 'brief' motivational interviewing appears common within a range of healthcare settings (general practice, paediatric and emergency) but further investigation is needed into how it is feasible within routine services in the UK and how far it works with and without opportunity for building a relationship with parents.

All three existing reviews and our own have concluded that 'think-family' interventions as implemented are limited; they do not fully meet 'family-orientated' criteria^{14,109} or address both individual **and** inter-related need in multiple family members.¹ The review by Morris and colleagues also outlines some potential harms of a think-family approach including those resulting from professionals (unintentionally) pathologising parental behaviour and enacting discriminating and punitive responses to specific groups of parents.^{1,14,115} Given the focus on 'parent as patient' in the studies we found, we suggest an additional potential harm: that provision and acceptance of health care for parents might be influenced by how far they are perceived as a 'good' or 'engaged' by health care services. It might be that parents are 'scared off' using healthcare services.¹¹⁵

care settings or delivered by healthcare professionals. Most interventions positioned the parent as patient, focussing on addressing maternal depression, self-harm or stress (mental

health), substance/alcohol misuse abuse and/or domestic violence in order to improve parenting capacity and thus indirectly improve child health and wellbeing ($N = 45/62$; 73%).

Three key mechanisms underpinned the interventions and were often used in combination. First screening, which was mainly used to identify mental health, substance/alcohol misuse and/or domestic violence health needs in parents following their own or their child's presentation to health-care. Secondly, health promotion whereby health professionals provided health information to parents about managing inter-related health needs. Thirdly, relationships and communication between the healthcare professional and family, largely to motivate parental engagement and behaviour change.

Forty-two percent of the interventions ($N = 26/62$) were set in primary care, of which 65% ($N = 17$) were in American paediatric primary care. Most commonly, interventions relied on building relationships ($N = 35/62$; 56%), either between professionals, between patients (peer support) or most commonly between health professional and mothers. A relationship dimension also underpinned some of the studies categorized as 'screening' ($N = 4/18$ studies) or 'health promotion' ($N = 2/9$ studies). The most common intervention components were motivational interviewing techniques with parents, training for health care providers, team meetings for professionals, increased expert support for health care professionals and home visits.

What is already known on this topic

There have been three other relevant reviews, one systematic review of effectiveness (2012)^{109,110} and two scoping reviews (2008¹ and 2017).¹⁴ See Box 1 for a detailed summary, including the overlap with our own review in terms of scope, included studies and findings.

What this study adds (see Box 1 for a detailed discussion)

First, we found that helping the child through the parent has been a common way of implementing a think-family approach to child health in high-income countries for specific types of parental health need (parental psychosocial problems which potentially affect capacity to parent and can affect child development and health). Secondly, our results suggest that therapeutic relationships may underpin all efforts to help the child through the parent (identify parents and engage and motivate parents to change their behaviour), a hypothesis supported by other relevant reviews.^{1,14,111} Our results (and common sense) suggest that building these therapeutic relationships appear most feasible within intensive programmatic interventions such as Family Nurse Partnership. However, such relationships might also be

possible to integrate into existing pathways and, as Box 1 details, our review found evidence that this had happened in some UK primary care settings. Thirdly, our study provides a typology for structuring further design of think-family interventions (screening, health promotion and relationship building (improved communication/motivational interviewing)) which can be used by public health researchers, policy makers and practitioners. Finally, the real life examples we report might be referenced as a form of practice sharing, although care must be taken regarding transferability of interventions from one setting to another (notably between countries where health care systems vary considerably).

Limitations of this study

It is possible we missed some relevant material, including studies about interventions for health needs of parents and children parents living with, for example HIV or cancer. This search might explain the focus on psychosocial problems in mothers in the studies we found.

Despite our care, it is possible that other researcher might have generated a differing typology from the same data. Further work is needed to 'test' our typology, including against interventions for specific health conditions. The majority of literature we found came from the USA which means further work is needed to establish how far there is potential, capacity and expertise for implementing the think-family approaches we found in other settings. We also need further evidence about cost and effectiveness (including harms).

Conclusions

Public health researchers and policy-makers should focus on developing and evaluating strategies for integrating therapeutic parent-professional relationships into routine (service as normal) healthcare. These relationships might underpin efforts to identify families (screen), provide advice (health promotion) and motivate behaviour change. Given that the majority of interventions were implemented in primary care, we suggest this is a good place to start, especially as the repeated contact with families may allow for relationship building approaches. Additionally, primary care services in Northern Europe ('family doctors') allow for professionals to work with both child and the parent, an approach which warrants attention and is more properly 'think-family' than the common parent-as-patient interventions we found. Researchers should consider how to overcome barriers to this approach such as the erosion of continuity of care in primary care services, stretched resources and separate

pathways for adults and children within many healthcare services and systems. Although helping the child through addressing parental psychosocial health needs may be a good starting point for policy-makers and practitioners undertaking service modifications, care should be taken to ensure that the adult's needs do not eclipse and obscure those of the child. Other harms may include pathologizing parents and 'scaring off' parents from services. Harms as well as benefits of think-family approaches should be measured.

Supplementary data

Supplementary data are available at the *Journal of Public Health* online.

Funding

This report is independent research commissioned and funded by the National Institute for Health Research (NIHR) Policy Research Programme. The views expressed in this publication are those of the author(s) and not necessarily those of the National Health Service (NHS), the National Institute for Health Research, the Department of Health and Social Care or its arm's length bodies, and other Government Departments.

References

- Morris K, Huges N, Clarke H *et al.* *Think Family: A Literature Review of Whole Family Approaches*. London: Force COSET, 2008.
- Social Care Institute for Excellence. *At a glance 9: Think child, think parent, think family*. Available at <http://www.scie.org.uk/publications/atagance/atagance09.asp> [Accessed 25 July 2017]. (2012).
- Woodman J, Woolley A, Gilbert R *et al.* *The Gp's Role in Responding to Child Maltreatment: Time for a Rethink?* London: NSPCC, 2014.
- Department of Health. *National Service Framework for Children, Young People and Maternity Services*. London: HMSO, 2004.
- Axford N, Barlow J, Coad J *et al.* *Rapid Review to Update Evidence for Healthy Child Programme 0-5*. London: PHE, 2015.
- Children and Families Act [Online] Available at <http://www.legislation.gov.uk/ukpga/2014/6/contents/enacted> [Accessed 27 November 2018]. (2014).
- Care Act [Online] Available At: <http://www.legislation.gov.uk/ukpga/2014/23/contents/enacted> (5 September 2017, date last accessed) (2014).
- Department of Health, Carers' Trust, The Children's Society, Department for Education. *Supporting the Health and Wellbeing of Young Carers*. London: DH, 2014.
- General Medical Council. *Protecting Children and Young People the Responsibility of All Doctors*. London: GMC, 2012.
- National Institute for Health and Clinical Excellence. *Domestic Violence and Abuse: How Can Health Services, Social Care and the Organisations They Work with Respond Effectively*. London: NICE, 2014.
- Royal College of General Practitioners. *Safeguarding Adults at Risk of Harm Toolkit: Processing and Storing of Safeguarding Information in Primary Care*. London: RCGP, 2017.
- Schor EL. Family pediatrics: report of the task force on the family. *Pediatrics* 2003;**111**(6 Pt 2):1541–71.
- Uniacke S, Browne TK, Shields L. How should we understand family-centred care? *J Child Health Care* 2018;**22**(3):460–9. doi:10.1177/1367493517753083.
- Mccalman J, Heyeres M, Campbell S *et al.* Family-centred interventions by primary healthcare services for indigenous early childhood wellbeing in Australia, Canada, New Zealand and the United States: a systematic scoping review. *BMC Pregnancy Childbirth* 2017;**17**(1):71.
- Solantaus T, Toikka S. The effective family programme: preventative services for the children of mentally ill parents in Finland. *Int J Ment Health Promot* 2006;**8**(3):37–44.
- Chartier M, Nickel NC, Chateau D *et al.* Families first home visiting programme reduces population-level child health and social inequities. *J Epidemiol Community Health* 2018;**72**(1):47–53.
- Kitzman H, Olds DL, Sidora K *et al.* Enduring effects of nurse home visitation on maternal life course: a 3-year follow-up of a randomized trial. *JAMA* 2000;**283**(15):1983–9.
- Olds DL, Kitman HJ, Cole RE *et al.* Enduring effects of prenatal and infancy home visiting by nurses on maternal life course and government spending: follow-up of a randomized trial among children at age 12 years. *Arch Pediatr Adolesc Med* 2010;**164**(5):419–24.
- Corbacho B, Bell K, Stamuli E *et al.* Cost-effectiveness of the Family Nurse Partnership (Fnp) Programme in England: evidence from the Building Blocks Trial. *J Eval Clin Pract* 2017;**23**(6):1367–74.
- Henggeler SW, Schaeffer CM. Multisystemic Therapy((R)): clinical overview, outcomes, and implementation research. *Fam Process* 2016;**55**(3):514–28.
- Olds DL, Holmberg JR, Donelan-Mccall N *et al.* Effects of home visits by paraprofessionals and by nurses on children: follow-up of a Randomized Trial at ages 6 and 9 Years. *JAMA Pediatr* 2014;**168**(2):114–21.
- Olds DL, Baca P, McClatchey M *et al.* Cluster randomized controlled trial of intervention to increase participant retention and completed home visits in the Nurse-Family Partnership. *Prev Sci* 2015;**16**(6):778–88.
- Eckenrode J, Campa MI, Morris PA *et al.* The prevention of child maltreatment through the Nurse Family Partnership Program: mediating effects in a long-term follow-up study. *Child Maltreat* 2017;**22**(2):92–9.
- Eckenrode J, Campa M, Luckey DW *et al.* Long-term effects of prenatal and infancy nurse home visitation on the life course of youths: 19-year follow-up of a randomized trial. *Arch Pediatr Adolesc Med* 2010;**164**(1):9–15.

- 25 Donelan-Mccall N, Eckenrode J, Olds DL. Home visiting for the prevention of child maltreatment: lessons learned during the past 20 years. *Pediatr Clin North Am* 2009;**56**(2):389–403.
- 26 Craig P, Dieppe P, Macintyre S *et al*. Developing and Evaluating complex interventions: The New Medical Research Council Guidance. *BMJ* 2008;**337**:a1655.
- 27 Arksey H, O'malley L. Scoping studies: towards a methodological framework. *Int J Soc Res Methodol* 2005;**8**(1):19–32.
- 28 Rumrill PD, Fitzgerald SM, Merchant WR. Using scoping literature reviews as a means of understanding and interpreting existing literature. *Work* 2010;**35**(3):399–404.
- 29 Green J, Thorogood N. *Qualitative Methods for Health Research*. London: Sage Publications Inc, 2013.
- 30 Thomas J, Harden A. Methods for the thematic synthesis of qualitative research in systematic reviews. *BMC Med Res Methodol* 2008;**8**(45):1–10.
- 31 Levac D, Colquhoun H, O'brien KK. Scoping studies: advancing the methodology. *Implement Sci* 2010;**5**(1):69.
- 32 Gullbra F, Smith-Sivertsen T, Rortveit G *et al*. Ill and substance-abusing parents: how can the general practitioner help their children? A qualitative study. *BMC Fam Pract* 2016;**17**(1):154.
- 33 Robling M, Bekkers M, Bell C *et al*. Effectiveness of a nurse-led intensive home-visitation programme for first-time teenage mothers (building blocks): a pragmatic randomised controlled trial. *Lancet* 2016;**387**(10014):146–55.
- 34 Gayes LA, Steele RG. A meta-analysis of motivational interviewing interventions for pediatric health behavior change. *J Consult Clin Psychol* 2014;**82**(3):521–35.
- 35 Lozano P, McPhillips HA, Hartzler B *et al*. Randomized trial of teaching brief motivational interviewing to pediatric trainees to promote healthy behaviors in families. *Arch Pediatr Adolesc Med* 2010;**164**(6):561–6.
- 36 Benestad B, Lekhal S, Smastuen MC *et al*. Camp-based family treatment of childhood obesity: randomised controlled trial. *Arch Dis Child* 2017;**102**(4):303–10.
- 37 Friedman S, Rochelson E, Fallar R *et al*. Postpartum depression in a general pediatric practice: practical methods for improving screening and referrals. *Clin Pediatr (Phila)* 2016;**55**(9):793–9.
- 38 Carroll AE, Biondich P, Anand V *et al*. A randomized controlled trial of screening for maternal depression with a clinical decision support system. *J Am Med Inform Assoc* 2013;**20**(2):311–6.
- 39 Sheeder J, Kabir K, Stafford B. Screening for postpartum depression at well-child visits: is once enough during the first 6 months of life? *Pediatrics* 2009;**123**(6):e982–988.
- 40 Gjerdingen D, Katon W, Rich DE. Stepped care treatment of postpartumdepression: a primary care-based management model. *Womens Health Issues* 2008;**18**(1):44–52.
- 41 Kornfeld BD, Bair-Merritt MH, Frosch E *et al*. Postpartum depression and intimate partner violence in urban mothers: co-occurrence and child healthcare utilization. *J Pediatr* 2012;**161**(2):348–53.e342.
- 42 Altman RL, Canter J, Patrick PA *et al*. Parent education by maternity nurses and prevention of abusive head trauma. *Pediatrics* 2011;**128**(5):e1164–1172.
- 43 Bailhache M, Benard A, Salmi LR. Simulation of the impact of programs for prevention and screening of pediatric abusive head trauma. *J Neurotrauma* 2016;**33**(14):1397–1403.
- 44 Jones BA, Griffiths KM, Christensen H *et al*. Online cognitive behaviour training for the prevention of postnatal depression in at-risk mothers: a randomised controlled trial protocol. *BMC Psychiatry* 2013;**13**:265.
- 45 Reese LS, Heiden EO, Kim KQ *et al*. Evaluation of period of purple crying, an abusive head trauma prevention program. *J Obstet Gynecol Neonatal Nurs* 2014;**43**(6):752–61.
- 46 Reich SM, Penner EK, Duncan GJ *et al*. Using baby books to change new mothers' attitudes about corporal punishment. *Child Abuse Negl* 2012;**36**(2):108–17.
- 47 Morrow CE, Mansoor E, Hanson KL *et al*. The starting early starting smart integrated services model: improving access to behavioral health services in the pediatric health care setting for at-risk families with young children. *J Child Fam Stud* 2010;**19**(1):42–56.
- 48 Chew-Graham CA, Sharp D, Chamberlain E *et al*. Disclosure of symptoms of postnatal depression, the perspectives of health professionals and women: a qualitative study. *BMC Fam Pract* 2009;**10**:7.
- 49 Berkule SB, Cates CB, Dreyer BP *et al*. Reducing maternal depressive symptoms through promotion of parenting in pediatric primary care. *Clin Pediatr (Phila)* 2014;**53**(5):460–9.
- 50 Allen SG, Berry AD, Brewster JA *et al*. Enhancing developmentally oriented primary care: an illinois initiative to increase developmental screening in medical homes. *Pediatrics* 2010;**126**(Suppl 3):S160–164.
- 51 Bair-Merritt MH, Jennings JM, Eaker K *et al*. Screening for domestic violence and childhood exposure in families seeking care at an urban pediatric clinic. *J Pediatr* 2008;**152**(5):734–6.
- 52 Fothergill KE, Gadamski A, Solomon BS *et al*. Assessing the impact of a web-based comprehensive somatic and mental health screening tool in pediatric primary care. *Acad pediatr* 2013;**13**(4):340–7.
- 53 Johnson NL, Klingbeil C, Melzer-Lange M *et al*. Evaluation of an intimate partner violence curriculum in a pediatric hospital. *Pediatrics* 2009;**123**(2):562–8.
- 54 Vanderburg S, Wright L, Boston S *et al*. Maternal child home visiting program improves nursing practice for screening of woman abuse. *Public Health Nurs* 2010;**27**(4):347–52.
- 55 Asiغبunam N. Introducing routine enquiry about domestic violence in a paediatric setting. *Arch Dis Child* 2017;**103**(1):41–2.
- 56 Bournsnell M, Prosser S. Increasing identification of domestic violence in emergency departments: a collaborative contribution to increasing the quality of practice of emergency nurses. *Contem Nurse* 2010;**35**(1):35–46.
- 57 Diderich HM, Dechesne M, Fekkes M *et al*. What parental characteristics can predict child maltreatment at the emergency department? Considering expansion of the Hague Protocol. *Eur J Emerg Med* 2015;**22**(4):279–81.
- 58 Diderich HM, Fekkes M, Verkerk PH *et al*. A new protocol for screening adults presenting with their own medical problems at the emergency department to identify children at high risk for maltreatment. *Child Abuse Negl* 2013;**37**(12):1122–31.
- 59 Diderich HM, Pannebakker FD, Dechesne M *et al*. Support and monitoring of families after child abuse detection based on

- parental characteristics at the emergency department. *Child Care Health Dev* 2015;**41**(2):194–202.
- 60 Diderich HM, Verkerk PH, Oudesluys-Murphy AM *et al.* Missed cases in the detection of child abuse based on parental characteristics in the emergency department (the Hague Protocol). *J Emerg Nurs* 2015;**41**(1):65–8.
- 61 Hoytema Van Konijnenburg EM, Diderich HM, Teeuw AH *et al.* Comparing policies for children of parents attending hospital emergency departments after intimate partner violence, substance abuse or suicide attempt. *Child Abuse Negl* 2016;**53**:81–94.
- 62 Hoytema Van Konijnenburg EM, Sieswerda-Hoogendoorn T, Brillleslijper-Kater SN *et al.* New hospital-based policy for children whose parents present at the er due to domestic violence, substance abuse and/or a suicide attempt. *Eur J Pediatr* 2013;**172**(2):207–14.
- 63 Kaye P, Taylor C, Barley K *et al.* An emergency department intervention to protect an overlooked group of children at risk of significant harm. *Emerg Med J* 2009;**26**(6):415–7.
- 64 Hegarty K, Forsdike-Young K, Tarzia L *et al.* Identifying and responding to men who use violence in their intimate relationships. *Aust Fam Physician* 2016;**45**(4):176–81.
- 65 Loeffen MJ, Daemen J, Wester FP *et al.* Mentor mother support for mothers experiencing intimate partner violence in family practice: a qualitative study of three different perspectives on the facilitators and barriers of implementation. *Eur J Gen Pract* 2017;**23**(1):27–34.
- 66 Loeffen MJ, Lo Fo Wong SH, Wester FP *et al.* Implementing mentor mothers in family practice to support abused mothers: study protocol. *BMC Fam Pract* 2011;**12**:113.
- 67 Dubowitz H. The safe environment for every kid (Seek) Model: helping promote children's health, development, and safety: seek offers a practical model for enhancing pediatric primary care. *Child Abuse Negl* 2014;**38**(11):1725–33.
- 68 Dubowitz H. The safe environment for every kid model: promotion of children's health, development, and safety, and prevention of child neglect. *Pediatr Ann* 2014;**43**(11):e271–277.
- 69 Dubowitz H, Feigelman S, Lane W *et al.* Pediatric primary care to help prevent child maltreatment: the safe environment for every kid (Seek) Model. *Pediatrics* 2009;**123**(3):858–64.
- 70 Dubowitz H, Lane WG, Semiatin JN *et al.* The Seek model of pediatric primary care: can child maltreatment be prevented in a low-risk population? *Acad Pediatr* 2012;**12**(4):259–68.
- 71 Dubowitz H, Lane WG, Semiatin JN *et al.* The safe environment for every kid model: impact on pediatric primary care professionals. *Pediatrics* 2011;**127**(4):e962–970.
- 72 Feigelman S, Dubowitz H, Lane W *et al.* Training pediatric residents in a primary care clinic to help address psychosocial problems and prevent child maltreatment. *Acad pediatr* 2011;**11**(6):474–80.
- 73 Olin SC, Kerker B, Stein RE *et al.* Can postpartum depression be managed in pediatric primary care? *J Womens health (Larchmt)* 2016;**25**(4):381–90.
- 74 Als LC, Nadel S, Cooper M *et al.* A supported psychoeducational intervention to improve family mental health following discharge from paediatric intensive care: feasibility and pilot Randomised Controlled Trial. *BMJ Open* 2015;**5**(12):e009581.
- 75 Beardslee WR, Solantaus TS, Morgan BS *et al.* Preventive interventions for children of parents with depression: international perspectives. *Med J Aust* 2013;**199**(3 Suppl):S23–25.
- 76 Hornor G, Bred D, Chapman E *et al.* Corporal punishment: evaluation of an intervention by Pnps. *J Pediatr Health care* 2015;**29**(6):526–35.
- 77 Ondersma SJ, Svikis DS, Schuster CR. Computer-based brief intervention a randomized trial with postpartum women. *Am J Prev Med* 2007;**32**(3):231–8.
- 78 Abatemarco DJ, Kairys SW, Gubernick RS *et al.* Expanding the Pediatrician's Black Bag: a psychosocial care improvement model to address the 'New Morbidities'. *Jt Comm J Qual Patient saf* 2008;**34**(2):106–15.
- 79 Goodson BD, Mackrain M, Perry DF *et al.* Enhancing home visiting with mental health consultation. *Pediatrics* 2013;**132**(Suppl 2):S180–190.
- 80 Holge-Hazelton B, Tulinius C. Beyond the specific child. what is 'a child's case' in general practice? *Br J Gen Pract* 2010;**60**(570):e4–9.
- 81 Rachamim E, Hodes D, Gilbert R *et al.* Pattern of hospital referrals of children at risk of maltreatment. *Emerg Med J* 2011;**28**(11):952–4.
- 82 Woodman J, Gilbert R, Glaser D *et al.* Vulnerable family meetings: a way of promoting team working in Gps' everyday responses to child maltreatment? *Soc Sci* 2014;**3**:341–58.
- 83 Arai L, Stephenson T, Roberts H. The unseen child and safeguarding: 'Did Not Attend' guidelines in the Nhs. *Arch Dis Child* 2015;**100**(6):517–20.
- 84 Bannick AA, Laufman JD, Edwards HL *et al.* Outcomes of referrals to child protective services for medical neglect in patients with phenylketonuria: experiences at a single treatment center. *Mol Genet Metab* 2015;**115**(4):151–6.
- 85 Cheng TL, Wright JL, Markakis D *et al.* Randomized Trial of a case management program for assault-injured youth: impact on service utilization and risk for reinjury. *Pediatr Emerg Care* 2008;**24**(3):130–6.
- 86 Thompson S, Roper C, Peveto L. Parenting in recovery program: participant responses and case examples. *Child Welfare* 2013;**92**(1):139–57.
- 87 Vasquez EP, Pitts K, Mejia NE. A model program: neonatal nurse practitioners providing community health care for high-risk infants. *Neonatal Netw* 2008;**27**(3):163–9.
- 88 Weinreb L, Nicholson J, Williams V *et al.* Integrating behavioral health services for homeless mothers and children in primary care. *Am J Orthopsychiatry* 2007;**77**(1):142–52.
- 89 Prosman GJ, Lo Fo Wong SH, Lagro-Janssen AL. Support by trained mentor mothers for abused women: a promising intervention in primary care. *Fam Pract* 2014;**31**(1):71–80.
- 90 Prosman GJ, Lo Fo Wong SH, Romkens R *et al.* 'I Am Stronger, I'm No Longer Afraid...', an evaluation of a home-visiting mentor mother support programme for abused women in primary care. *Scand J Caring Sci* 2014;**28**(4):724–31.
- 91 Taft AJ, Small R, Hegarty KL *et al.* Mosaic (Mothers' Advocates in the Community): protocol and sample description of a Cluster Randomised Trial of mentor mother support to reduce intimate partner violence among pregnant or recent mothers. *BMC Public Health* 2009;**9**:159.

- 92 Taft AJ, Small R, Hegarty KL *et al.* Mothers' advocates in the community (Mosaic)-non-professional mentor support to reduce intimate partner violence and depression in mothers: a Cluster Randomised Trial in primary care. *BMC Public Health* 2011;**11**(178). doi: 10.1186/1471-2458-11-178.
- 93 Brown JD, Wissow LS, Cook BL *et al.* Mental health communications skills training for medical assistants in pediatric primary care. *J Behav Health Serv Res* 2013;**40**(1):20–35.
- 94 Lewis NV, Larkins C, Stanley N *et al.* Training on domestic violence and child safeguarding in general practice: a mixed method evaluation of a pilot intervention. *BMC Fam Pract* 2017;**18**(1):33.
- 95 Szilassy E, Drinkwater J, Hester M *et al.* Making the links between domestic violence and child safeguarding: an evidence-based pilot training for general practice. *Health Soc Care Community* 2017;**25**(6): 1722–32. doi:10.1111/hsc.12401.
- 96 Wissow LS, Gadowski A, Roter D *et al.* Improving child and parent mental health in primary care: a cluster-randomized trial of communication skills training. *Pediatrics* 2008;**121**(2):266–75.
- 97 Bjerregaard LB, Gerke O, Rubak S *et al.* Identifying parents with risky alcohol consumption habits in a paediatric unit—are screening and brief intervention appropriate methods? *Scand J Caring Sci* 2011;**25**(2):383–93.
- 98 Broning S, Wiedow A, Wartberg L *et al.* Targeting children of substance-using parents with the community-based group intervention trampoline: a randomised controlled trial – design, evaluation, recruitment issues. *BMC Public Health* 2012;**12**:223.
- 99 Cluxton-Keller F, Riley AW, Noazin S *et al.* Clinical effectiveness of family therapeutic interventions embedded in general pediatric primary care settings for parental mental health: a systematic review and meta-analysis. *Clin Child Fam Psychol Rev* 2015;**18**(4): 395–412.
- 100 Dietz LJ, Weinberg RJ, Brent DA *et al.* Family-based interpersonal psychotherapy for depressed preadolescents: examining efficacy and potential treatment mechanisms. *J Am Acad Child Adolesc Psychiatry* 2015;**54**(3):191–9.
- 101 Fernandez Y, Garcia E, Joseph J *et al.* Pediatric-based intervention to motivate mothers to seek follow-up for depression screens: the motivating our mothers (Mom)Trial. *Acad Pediatr* 2015;**15**(3):311–8.
- 102 Fergusson DM, Boden JM, Horwood LJ. Nine-year follow-up of a home-visitation program: a randomized trial. *Pediatrics* 2013;**131**(2): 297–303.
- 103 Kemp L, Harris E, McMahon C *et al.* Miller early childhood sustained home-visiting (meesh) trial: design, method and sample description. *BMC Public Health* 2008;**8**:424.
- 104 Longhi E, Lynne M, Rachael H *et al.* The Nspcc Uk Minding the Baby® (Mtb) Home-Visiting Programme, supporting young mothers (aged 14–25) in the first 2 years of their baby's life: Study Protocol for a Randomised Controlled Trial. *Trials* 2016;**17**(486):1–16.
- 105 Matthey S, Speyer J. Changes in unsettled infant sleep and maternal mood following admission to a parentcraft residential unit. *Early Hum Dev* 2008;**84**(9):623–9.
- 106 O'doherty L, Hegarty K, Ramsay J *et al.* Screening women for intimate partner violence in healthcare settings. *Cochrane Database Syst Rev* 2013:CD007007. doi:10.1002/14651858.CD007007.pub2.
- 107 Goodman JH, Prager J, Goldstein R *et al.* Perinatal dyadic psychotherapy for postpartum depression: a Randomized Controlled Pilot Trial. *Arch Womens Ment Health* 2015;**18**(3):493–506.
- 108 Woodman J, Gilbert R, Allister J *et al.* Responses to concerns about child maltreatment: a qualitative study of Gps in England. *BMJ Open* 2013;**3**(12):e003894. doi:003810.001136/bmjopen-002013-003894.
- 109 Shields L, Zhou H, Pratt J *et al.* Family-centred care for hospitalised children aged 0-12 years. *Cochrane Database Syst Rev* 2012;**10**:Cd004811.
- 110 Shields L, Zhou H, Taylor M *et al.* Family-centred care for hospitalised children aged 0-12 years: a systematic review of quasi-experimental studies. *JBI Libr Syst Rev* 2012;**10**(39):2559–92.
- 111 Lewis NV, Feder GS, Howarth E *et al.* Identification and initial response to children's exposure to intimate partner violence: a qualitative synthesis of the perspectives of children, mothers and professionals. *BMJ Open* 2018;**8**(4):e019761.
- 112 McCalman J, Campbell SK, Chamberlain C, *et al.* Family-centred interventions for Indigenous early childhood well-being by primary healthcare services. *Cochrane Database Syst Rev* 2016; **12**:CD012463. doi: 10.1002/14651858.CD012463.
- 113 Di Lallo S. Prenatal care through the eyes of Canadian aboriginal women. *Nurs Womens Health* 2014;**18**(1):38–46.
- 114 Thoburn J, Cooper N, Brandon M *et al.* The place of 'think family' approaches in child and family social work: messages from a process evaluation of an English Pathfinder Service. *Child Youth Serv Rev* 2013;**35**(2):228–36.
- 115 Canvin K, Jones C, Marttila A *et al.* Risk using public services? Perceived consequences of seeking help and health care among households living in poverty: qualitative study. *J Epidemiol Community Health* 2007;**61**(11):984–9.