Additional file 4: The Evaluation of the Quality of the Empirical Studies Included in the Review

Auditional file 4	: The Evaluation of the Quality of the Empirical Studies included in the Review		
	Is it clear whose perspective is offered?	Are the data collection and analysis methods clearly described?	Were questions for data collection open or closed? Was the analysis grounded in the data or framed
Albersheim 2010 [40]	Yes, practicing neonatologists in Canada	Yes, semi-structured interviews and comments on scenarios Yes, thematic analysis of interviews and quantitative analysis of responses to scenarios	externally?  Open and closed questions.  Externally framed analysis
Allmark 2006 [47]	Yes, parents who gave consent to the TOBY trial and clinicians who sought it, in UK	Yes, semi-structured interviews Yes, framework analysis	Open questions Flexibly framed analysis
Ballard 2004 [46]	Yes, parents of newborns enrolled to the NEOPAIN study in Kentucky, USA	Yes, open ended questions. Yes, questions translated into a closed Likert score and analysed quantitatively	Open questions Externally framed analysis
Ballard 2011 [51]	Yes, parents of newborns enrolled to a specific phase II study in the Neonatal Intensive Care Unit at the University of Kentucky, USA	Yes, open ended questions asked during a controlled trial comparing standard consent with enhanced consent. Yes, questions translated into a closed Likert score and analysed quantitatively	Open questions Externally framed analysis
Brinchmann 2002 [36]	Yes, parents who had experienced one or more life-and-death decisions relating to their critically ill and/or premature infant, in Norway	Yes, in-depth interviews Yes, thematic analysis discussed in the light of theories of ethics	Open questions Emergent themes framed by theories of ethics
Burgess 2003 [25]	Yes, parents who agreed, and those who refused, to enrol their newborns into trials in a NICU in a tertiary care referral centre, Canada	Yes, questionnaire with Likert scale and 3 open questions Yes, quantitative analysis	Closed and open questions Externally framed analysis
Culbert 2005 [53]	Yes, parents who had received obstetrical or neonatal care at a tertiary perinatal centre, Denmark	Yes, mailed questionnaire with Likert scale Yes, quantitative analysis	Closed questions Externally framed analysis

	Т	T .	T
De Leeuw	Yes, Physicians and	Yes, self-administered	Closed questions
2000 [61]	nurses in 143 NICUs	Questionnaire	Externally framed
	across Europe	Yes, quantitative analysis	analysis
Garel 2004	Yes, obstetricians and	Yes, semi-structured	Open questions
[62]	midwives in three	interviews	Analysis grounded in
	tertiary-care maternity	Yes, content analysis	the data
	units, France		
Garel 2011	Yes, physicians and	Yes, semi-structured	Open questions
[44]	nurses in thee NICUs,	interviews	Analysis grounded in
. ,	France	Yes, content analysis	the data
Hayman 2001	Yes, parents who	Yes, questionnaire	Closed questions
[16]	consented or declined to	Yes, quantitative analysis	Externally framed
[10]	participate in a study of	res, quantitative unarysis	analysis
	SIDS, New Zealand		allalysis
Hoehn 2005		Vac Cami strusturad	Onen and closed
	Yes, parents of neonates	Yes, Semi-structured	Open and closed
[17]	having cardiothoracic	qualitative interviews	questions
	surgery, a Children's	Yes, thematic analysis of	Themes emergent from
	Hospital, Philadelphia,	sponateously offered	the data
	USA	reasons for or against	
		research participation	
Hoehn 2009	Yes, parents of neonates	Yes, semi-structured	Open and closed
[32]	with critical congenital	interview	Themes emergent from
	heart disease, who had	Yes, thematic analysis	the data
	made decisions either		
	for or against research		
	participation before their		
	neonate's cardiothoracic		
	surgery, Chicago, USA		
Hulst 2005	Yes, parents or legal	No	Closed questions
[31]	representatives of	Yes, quantitative analysis	Externally framed
	children (pre-term	,	analysis
	neonates to 18 years) in		, , , , , , , , , , , , , , , , , , , ,
	ICU who were		
	approached for consent		
	to enrol their child in a		
	nutritional assessment		
Jallya 2000	study, The Netherlands	Yes, semi-structured	Onen guestiens
Jollye 2009	Yes, parents who had chosen or declined to	interviews	Open questions
[18]			Themes emergent from
	participate in clinical	Yes, thematic analysis	the data
	trials, England		
Kavanaugh	Yes, mothers	Yes, serial interviews with	Open questions
2005 [37]	hospitalised for risk of	parents; single interviews	Externally framed
	pre-term birth; their	with each clinician.	analysis
	partners, physicians and	Yes, analysed in line with	
	nurses, USA	Ottawa Decision Support	
		Framework	
Korotchikova	Yes, parents of healthy	Yes, observation of	Open questions
2010 [29]	full-term newborn	presence/ absence	Externally framed
	babies on the postnatal	partner	analysis
	wards in a University		

	Maternity Hospital, Ireland	Yes, quantitative analysis according to four principles of the consent process	
Maayan- Metzger 2008 [19]	Yes, mothers of healthy term newborns and mothers of stable growing preterm infants with no active disease who had given birth at a large tertiary hospital, Israel	Yes, questionnaire with Likert scale Yes, quantitative	Closed questions Externally framed analysis
Mason 2000 [34]	Yes, parents who had been asked for consent to neonatal trials and neonatologists seeking consent, in Europe	Yes, semi-structured interviews Yes, quantitative analysis according to four principles of the consent process	Open questions Externally framed analysis
McHaffie 2001 [38]	Yes, doctors and nurses working in six large neonatal intensive care units (NICUs) throughout Scotland	Yes, in-depth, face-to-face interviews with semi-structured schedules Unclear, 'Data were entered onto a computer under predetermined variable names, with scope for unlimited values to accommodate the full range of qualitative responses'	Open questions Analysis unclear
Morley 2005 [20]	Yes, parents of premature babies in the neonatal intensive care unit, Australia	Yes, questionnaire with multiple choice answers or Likert scale Yes, quantitative	Closed questions Externally framed analysis
Nathan 2010 [59]	Yes, parents of neonates undergoing cardiac surgery who had made decisions about research participation before their neonate's surgery, USA	Yes, MacArthur competence assessment tool for clinical research (MacCAT-CR), specifically testing the components of understanding, appreciation, reasoning and choice Yes, quantitative	Unclear whether questions open or closed Externally framed analysis
Paulmichl 2011 [43]	Yes, clinicians involved in various dilemmas of neonatology (nurses, obstetricians, neuropaediatricians and neonatologists, midwives and other health professionals such as	Yes, a questionnaire for professionals; for parents, similar questions asked in interviews no more than 30 minutes long	Some open, some closed Content analysis and descriptive statistics for analysing answers to questions

	clinical psychologists and physical therapists); and parents of preterm and term infants treated in NICU		Unclear to what extent analysis externally framed
Rogers 1998 [55]	Yes, mothers of low birth weight infants eligible for an RCT of primary care follow-up, Texas, USA	Yes, structured interviews Yes, RCT of conventional or modified consent procedure	Closed and open questions Pre-set outcomes
Saigal 1999 [63]	Yes, mothers of infants who weighed less than 1500 g at birth, Ontario, Canada	Yes, standardized interviews using the Standard Gamble technique to elicit preferences for 5 pediatric hypothetical health states with varying disabilities Yes, quantitative	Closed questions Externally framed analysis
Schmidt 1999 [57]	Yes, premature infants were eligible for enrollment in a placebocontrolled trial of antithrombin therapy, a university medical centre, Canada	Yes, physical health status of newborns with parents who consented or refused Yes, quantitative analysis	No questions Externally framed analysis
Sharma 2011 [64]	Yes, women with at least one prior Caesarean in the last 18 months who were eligible to undergo a trial of labour for a subsequent pregnancy, Oregon, USA.	Yes, 45 minutes using a computerized evidence-based decision aid based Yes, quantitative comparison of two decision aid models	Closed questions Externally framed analysis
Simon 2006 [60]	Yes, parents of children eligible for RCTs of leukemia treatments, Maryland, USA.	Yes, observed & recorded informed consent sessions, and interviews Yes, quantitative analysis of references to altruism related to RCT participation	Open and closed questions Externally framed analysis
Singhal 2002 [26]	Yes, parents of newborn babies in NICU, in a large tertiary referral center and teaching hospital, Canada	Yes, questionnaire with graded responses and five research scenarios	Closed questions Externally framed analysis
Singhal 2004 [41]	Yes, doctors and nurses in a large tertiary care center in western Canada	Yes, questionnaire with 20 scaled items and five case scenarios	Closed questions Externally framed analysis
Snowdon 1997 [48]	Yes, parents of critically ill newborns who	Yes, in-depth interviews at 47-140 weeks after birth	Open questions Emergent themes

	assessment of the same Uline 1.	Vac thomatic makes the	
	consented to enrolling in	Yes, thematic analysis with	
	ECMO trial, UK.	Atlas-ti	
Snowdon	Yes, parents whose baby	Yes, in-depth interviews	Open questions
1998 [33]	had participated in	Yes, thematic analysis with	Emergent themes
	ECMO trial, and they had	Atlas-ti	
	received trial results, UK		
Snowdon	Yes, neonatologists and	Yes, semi-structured	Open questions
2004 [42]	neonatal pathologists	interviews	Emergent themes
	associated with five UK	Yes, thematic analysis with	
	trials	Atlas-ti	
Snowdon	Yes, bereaved parents	Yes, in-depth interviews	Open questions
2004 [39]	from five UK neonatal	Yes, thematic analysis with	Emergent themes
	units	Atlas-ti	
Snowdon	Yes, parents of babies,	Yes, in-depth interviews	Open questions
2006 [28]	most associated with the	Yes, thematic analysis with	Emergent themes
	neonatal trials; some	Atlas-ti	
	parents refused consent,		
	some babies died, UK		
Stenson 2004	Yes, parents of sick	Yes, a short questionnaire	Closed and open
[35]	newborns enrolled in a	using Likert scales	questions
	randomised trial in the	Yes, quantitative analysis	Externally framed
	early neonatal period,		analysis
	Scotland		
Ward 2009	Yes, in NICU, in USA,	Yes, in-depth interviews;	Open questions,
[27]	mid-Atlantic hospitals	Yes, qualitative content	themes developed from
		analysis	the data
Zupancic 1997	Yes, parents who had	Yes, questionnaire using	Closed questions
[21]	recently given or	Likert scales	Externally framed
_	declined consent to one	Yes, quantitative analysis	analysis
	of three controlled trials	,	
	in the NICU, Canada		
	, ,	1	I