# National Institute for Health and Care Excellence

**Draft for Consultation** 

# Specialist neonatal respiratory care for babies born preterm

[G] Evidence reviews for discharge planning

NICE guideline <TBC at publication>

Evidence reviews

October 2018

**Draft for Consultation** 

These evidence reviews were developed by the National Guideline Alliance, hosted by the Royal College of Obstetricians and Gynaecologists



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# 1 Discharging planning

- 2 This evidence report contains information on 2 reviews relating to discharge 3 planning.
- 4 Review question 7.1 What factors are important when planning for the safe
- transition from the neonatal unit of a baby born preterm, requiring respiratory
- 6 support?
- 7 Review question 7.2 What are the support and information needs of parents and
- 8 carers of preterm babies who are transitioning from the neonatal unit while
- 9 receiving ongoing respiratory support?

### Review question 7.1 What factors are important when

- 2 planning for the safe transition from the neonatal unit
- 3 of a baby born preterm, requiring respiratory support?

#### **Introduction**

- 5 Due to clinical advances in medical technologies there are an increasing number of
- 6 children being discharged home who are still receiving respiratory support. This may
- 7 include oxygen therapy or long-term ventilation, delivered either non-invasively via
- 8 facemask or face shield, or invasively via a tracheostomy. Although discharge home
- 9 is considered to be in the best interest of the child and their family, discharging a
- 10 child home on respiratory support is a complex process and often presents a number
- 11 of challenges.
- 12 The review aims to explore factors that professionals agree are important to ensure
- 13 the safe discharge from hospital of a child requiring respiratory support.

#### 18 ummary of the protocol

- 15 See Table 1 for a summary of the population, intervention/context and outcome
- 16 characteristics of this review.

#### 17 Table 1: Summary of the protocol

Table 1. Summary of the protocol				
Population	Inclusions:			
	Professionals in the multidisciplinary team (MDT) caring for preterm babies who require respiratory support			
	<ul> <li>Exclusions:</li> <li>Professionals caring for preterm babies with any congenital abnormalities excluding patent ductus arteriosus (PDA)</li> <li>Professionals caring for preterm babies who are ventilated solely due to neurological disorders</li> <li>Quantitative studies that do not provide qualitative data i.e. survey data</li> </ul>			
Intervention/ context	Minimum requirements that professionals caring for preterm babies requiring respiratory support find important in regards to the safe transition of the baby from the neonatal unit to a care setting (i.e. the home or hospice care) where the parents/carers, as opposed to healthcare professionals, are the main caregivers.			
Outcomes	<ul> <li>Themes will be identified from the literature, but expected themes are:</li> <li>Access to the MDT, including medical, specialist nursing and therapy teams, and psychological support</li> <li>Community team involvement</li> <li>Training or qualifications of the care provider that will be providing care post neonatal unit discharge</li> <li>Named discharge co-ordinator or key worker, such as named consultant or nurse</li> <li>Training and completion of competencies of parents</li> <li>Medication administration</li> <li>Support to facilitate the confidence of parents</li> <li>Equipment provision</li> <li>Care package funded</li> <li>Suitable discharge destination environment</li> </ul>			

- Housing
- o Electricity
- Follow-up care including discharge summaries
- 1 MDT: multidisciplinary team; PDA: patent ductus arteriosus
- 2 For full details see review protocol in appendix A.

#### **Glinical evidence**

4 A single search was conducted to look for systematic reviews and qualitative studies.

#### **Encluded studies**

- 6 Two qualitative studies were included in this review (Helder 2012; Hobbs 2017).
- 7 One study (Helder 2012) focused on the perspective of critical care nurses in the
- 8 neonatal intensive care unit (NICU) and the specialist care nursery (SCN) in the
- 9 Netherlands and the other (Hobbs 2017) focused on the perspectives of neonatology
- 10 fellows in the US. The studies collected data by semi-structured interviews and
- 11 conducted the analysis through thematic analysis.
- 12 See the literature search strategy in appendix B and study selection flow chart in
- 13 appendix C.

#### 1**Excluded studies**

- 15 Studies not included in this review with reasons for their exclusions are provided in
- 16 appendix K.

#### 1Summary of qualitative studies included in the evidence review

18 Table 2 provides a brief summary of the included studies.

#### 19 Table 2: Summary of included studies

Study and	,		
setting	Participants	Methods	Themes
Helder 2012 The Netherlands	Study participants n= 18 Three nurses from the NICU and 3 from each SCN were interviewed.  Study babies n=24	Sampling Sampling method not reported  Setting 5 level 2 SCNs in the Netherlands  Data collection The interview guide was developed	Preparing parents for baby's daily care needs -Mentally  Practical aspects -Transportation -Home set up
	Gestational age, weeks, median (IQR)= 30.7 (26.0- 39.4) Birth weight, grams, median (IQR)= 1780 (635-4000)	from a literature review. Interviews were conducted by pairs of nursing students under supervision from the second author. Interviews were audio-recorded and transcribed verbatim.	
	Female, n (%)= 16 (66.7) CRIB score, mean (SD)= 2 (0.5)	Data analysis Thematic analysis was used.	

Study and setting	Participants	Methods	Themes
Hobbs 2017 USA	Study participants n=10 Female, postgraduate years 4-7 Study babies n=10 Gestational age, weeks, median (IQR)= 36.5 (23-40) Male, n (%)= 5 (50) Diagnosis, n (%) Congenital anomaly= 3 (30) Prematurity, n (%)= 2 (20) Discharged with durable medical equipment, n (%)= 4 (40)	Sampling Sampling method not reported  Setting Parents' homes  Data collection During travel to and from homes, fellows observed the neighbourhood and community resources surrounding the family's neighbourhood and community resources, such as where parents would go to buy food and supplies for the baby. After the home visit, fellows completed semi-structured interviews that were audio-recorded and transcribed.  Data analysis Thematic analysis was used.	Preparing parents for the baby's daily care needs -Mentally -Practically  Practical aspects -Transportation -Home set up  Interpersonal aspects -Normalising -Clear and simple communication with parents -Understanding the context

- 1 CRIB: clinical risk for babies; IQR: intra-quartile range; NICU: neonatal intensive care unit; SCN: specialist care nursery
- 3 See appendix D for full evidence tables and appendix M for the qualitative quotes
- 4 and excerpts extracted from the studies.

#### Quality assessment of clinical studies included in the evidence review

6 See appendix F for full GRADE-CERqual tables.

#### **Economic evidence**

- 8 No economic evidence on the cost effectiveness of aspects of care that parents and
- 9 carers value when their baby requires respiratory care was identified by the literature
- 10 searches of the economic literature undertaken for this guideline.

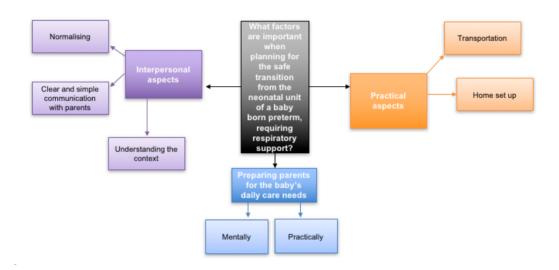
#### 1Economic model

- 12 No economic modelling was undertaken for this review because the committee
- 13 agreed that the topic was unsuitable for the economic modelling.

#### **Qualitative evidence statements**

# **Emportant factors when planning for the safe discharge of a preterm baby** 3 requiring respiratory support

#### 4 Figure 1: Thematic map



Theme 1: Preparing parents for the baby's daily care needs

#### Mentally

- 8 Very low quality evidence from 2 studies conducted in different countries (the
- 9 Netherlands, US) among 28 critical care nurses and neonatology fellows
- 10 responsible for preterm infants requiring respiratory support during discharge from
- the NICU reported that staff should address parents' fears and anxieties by giving
- 12 helpful information and encouraging them to express their feelings while
- participating in the baby's care.

#### 1Practically

- 15 Very low quality evidence from 2 studies conducted in different countries (the
- Netherlands, US) among 28 critical care nurses and neonatology fellows
- 17 responsible for preterm infants requiring respiratory support during discharge from
- the NICU reported that it is necessary to prepare parents for the responsibility of
- their baby's care by involving them in daily care activities in the NICU. Discharge
- 20 plans should include information on routine newborn care, as well as information
- 21 specific to their preterm baby's needs, such as calculating battery power or how to
- attend doctor's appointments with babies on medical technology.

#### 23heme 2: Practical aspects

#### 24 ransportation

- 25 Very low quality evidence from 2 studies conducted in different countries (the
- Netherlands, US) 28 among critical care nurses and neonatology fellows
- 27 responsible for preterm infants requiring respiratory support during discharge from
- the NICU reported that nurses need to know the time of departure in order to
- 29 coordinate the transfer and decrease parents' anxiety. It is also important for
- 30 parents to learn how to travel with their technology-dependent preterm baby to
- 31 facilitate mobility and attendance at appointments.

#### Home set up

- 2 Very low quality evidence from 2 studies conducted in different countries (the
- 3 Netherlands, US) among 28 critical care nurses and neonatology fellows
- 4 responsible for preterm infants requiring respiratory support during discharge from
- 5 the NICU reported that parents should be informed of the requirements of the
- 6 home prior discharge in order to provide them with enough time to make
- 7 necessary conversions. Homes should be clean and quiet.

#### **Theme 3: Interpersonal aspects**

#### **B**ormalising

- 10 Very low quality evidence from 1 study conducted in the US among 10
- 11 neonatology fellows responsible for preterm babies requiring respiratory support
- during discharge from the NICU reported that parents should be assisted in
- 13 learning how to normalise daily life, for example, how to run errands or to secure
- 14 childcare for medically complex babies. Efforts should also be made to ensure that
- 15 home care routines permit time for parents to sleep and home nursing be made
- available to provide parents physical and emotional respite.

#### 1Clear and simple communication with parents

- 18 Very low quality evidence from 1 study conducted in the US among 10
- 19 neonatology fellows responsible for preterm babies requiring respiratory support
- 20 during discharge from the NICU reported that clear communication throughout the
- 21 discharge process so that parents can adequately care for the baby. The home
- 22 nursing team should be identified in advance of the discharge date so as to avoid
- a rushed and chaotic discharge process. Follow-up appointments should be
- 24 scheduled with parents and care instructions should avoid medical jargon and
- acknowledge the new care setting in the home.

#### 26 Inderstanding the context

- 27 Very low quality evidence from 1 study conducted in the US among 10
- 28 neonatology fellows responsible for preterm babies requiring respiratory support
- 29 during discharge from the NICU reported that staff from the NICU should account
- 30 for family dynamics and should consider the role of extended family members
- 31 during the NICU discharge process. Asking about the social environment is
- 32 important for staff when creating the discharge plan so that home care routines
- are appropriate for the family's context.

#### 3**Economic evidence statements**

- 35 No economic evidence on the cost effectiveness of factors that are important
- when planning for the safe transition from the neonatal unit of a baby born
- 37 preterm was available.

#### 3Recommendations

- 39 G1.1 Neonatal units should consider appointing a member of staff as a designated
- 40 neonatal discharge coordinator to discuss the following with parents and carers:
- ongoing support and follow-up after discharge, (also see the NICE guideline on
- 42 developmental follow-up of children and young people born preterm)
- 43 how to care for their baby at home
- 44 how to use specialist equipment safely

1 how to travel with their baby and specialist equipment.

2

- 3 G1.2 When planning to discharge a preterm baby on respiratory support from the 4 neonatal unit:
- 5 follow the principles in the NICE guideline on postnatal care
- consider early referral to, and regular contact with, community and continuing
   healthcare teams
- 8 consider an interim discharge placement to, for example, a hospice, alternative
- 9 family member's home, step-down unit, transitional care unit, or alternative
- 10 suitable accommodation, where appropriate.

#### 1Research recommendation

- 12 What is best practice around discharge planning for preterm babies on respiratory
- 13 support?

#### 1Rationale and impact

#### 16Vhy the committee made the recommendations

- 16 There was evidence about the importance of good communication with parents about
- 17 their baby's discharge. The committee agreed that a designated neonatal discharge
- 18 coordinator, as a single point-of-contact, would facilitate the communication of key
- 19 information with parents and carers. The committee also agreed that early referral to
- 20 community and continuing healthcare teams would also help parents prepare for their
- 21 baby's discharge. Having the option to discharge to an alternative location, such as
- 22 to another relative's home or a hospice, would enable parents and carers whose
- 23 homes are not suitable for their preterm baby to be able to care for their baby outside
- 24 the hospital
- 25 The committee also recognised that some of the advice in the NICE guideline on
- 26 postnatal care was also relevant to babies born preterm and so made a cross
- 27 reference to this guideline.
- 28 However, because there were only 2 studies, and no evidence for a number of
- 29 themes identified by the committee, the committee agreed that more research could
- 30 better define best practice, and so made a research recommendation.

31 .

#### 32 Impact of the recommendations on practice

- 33 The committee agreed that the recommendations would not result in a major change
- 34 in practice, but will help improve consistency in best practice.

#### 35he committee's discussion of the evidence

#### 36 nterpreting the evidence

#### 3The outcomes that matter most

- 38 This review was conducted from the perspective of healthcare professionals and so
- 39 outcomes that were most important were factors that healthcare professionals

- 1 themselves believed were necessary for a safe transition from the neonatal unit of a
- 2 baby on respiratory support. The committee agreed that the important thematic
- 3 outcomes related to preparing parents for the baby's daily care needs, practical
- 4 aspects (such as administration of medication, use of equipment, suitable housing),
- 5 the competencies of parents, and interpersonal aspects (such as communication with
- 6 the family and understanding the family dynamics) trusting relationships with . All of
- 7 these thematic outcomes were considered useful once the evidence had been
- 8 appraised. However, some of these themes also related to what parents found useful
- 9 in the discharge process and so were covered in the recommendations made for
- 10 review question 7.2, and were not therefore duplicated here. However, it was good
- 11 that the predefined themes were found to reflect what professionals involved in the
- 12 multidisciplinary team (MDT) consider important, as the evidence was identified from
- 13 interviews with professionals themselves.
- 14 The committee did not prioritise any of the thematic outcomes.

#### 15 the quality of the evidence

- 16 There was evidence from 2 qualitative studies available for this review (Helder 2012;
- 17 Hobbs 2017). The studies focused on the perspective of critical care nurses in the
- 18 neonatal intensive care unit (NICU) and the specialist care nursery (SCN) in the
- 19 Netherlands and neonatology fellows in the US. The studies collected data by semi-
- 20 structured interviews and conducted the analysis through thematic analysis.
- 21 The quality of evidence was most often downgraded because of methodological
- 22 limitations affecting the risk of bias, relevance of the findings and the adequacy of the
- 23 findings.
- 24 Methodological limitations affecting the risk of bias were generally attributed to the
- 25 studies not clearly reporting the sampling method or relationship between the
- 26 researcher and participants or insufficient evidence to determine whether ethical
- 27 standards were maintained.
- 28 The confidence in the relevance of the evidence was downgraded as a result of
- 29 some babies not being preterm or having major congenital abnormalities and others
- 30 not being discharged requiring respiratory support.
- 31 The confidence in the adequacy of the evidence was downgraded as a result of data
- 32 saturation not being reached. This was a result of evidence only being available from
- 33 a very small number of studies, which meant that themes were under-developed and
- 34 analysing further data would likely reveal new data and concepts.
- 35 The small quantity of evidence and the low quality of the evidence limited the ability
- 36 of the committee to make recommendations and meant that the committee used their
- 37 clinical experience and expertise as well in order to develop recommendations. A
- 38 research recommendation was written as a result of the lack of evidence and low
- 39 quality of the evidence that was available.

#### 4Benefits and harms

- 41 The interviews with healthcare professionals identified that, in order to facilitate a
- 42 safe discharge, parents should be prepared both mentally and practically for
- 43 discharge for example by receiving advice and information on caring for their baby
- 44 at home, using specialist equipment safely, and knowing how to travel with their baby
- 45 and the equipment. The professionals also reported that the place the baby is going
- 46 to should be suitable to accommodate the specialist equipment required for the
- 47 baby's ongoing respiratory needs (for example enough space for equipment, no

- 1 smokers in the household, enough plug points and a suitable electricity supply).
- 2 Based on their experience, the committee agreed that sometimes this meant that
- 3 alternative locations to home should be considered, such as hospices, relative's
- 4 homes or other suitable accommodation.
- 5 For the interpersonal theme, there was evidence that professionals recognised the
- 6 value of good communication with parents, providing advice on organisational issues
- 7 after discharge such as follow-up appointments, and that early involvement and
- 8 communication with community healthcare teams was important as well. To ensure
- 9 this the committee recommended, again from their own experience, that a dedicated
- 10 discharge coordinator could ensure this communication happened.
- 11 The committee noted that benefits of the recommendations would include better
- 12 discharge planning and clearer communication with parents/carers. Better planning
- 13 could result in early discharge, which would ease pressure on acute beds in the
- 14 NICU. No harms were identified from the recommendations.

#### 16ost effectiveness and resource use

- 16 There was no evidence on the cost effectiveness of strategies for the discharge
- 17 planning. The committee expressed the view that safe discharge planning leads to
- 18 appropriate care of preterm babies who require ongoing respiratory support. There
- 19 may be additional costs associated with facilitating improved communication with
- 20 parents/carers, regular contact with community healthcare teams, and having a
- 21 neonatal Discharge Co-Ordinator but this will be outweighed by both the longer term
- 22 improvements in health outcomes and the potential cost savings to the healthcare
- 23 system of an early and successful discharge. The committee discussed that even
- 24 stepping-down the level of care (for example to a hospice, or other less acute setting)
- 25 minimises the use of acute beds in a neonatal unit and may also result in substantial
- 26 cost savings to the NHS.

#### 20ther factors the committee took into account

- 28 The committee discussed inequalities in access to social housing and service
- 29 provision and the financial strains that having a preterm baby may place on
- 30 parents/carers. Families who are ineligible for travel subsidies may find it difficult to
- 31 regularly travel to the NICU before their baby is discharged, which could affect their
- 32 ability to gain hands-on experience in caring for their baby. Additionally, families who
- 33 are in unsuitable accommodation, or who cannot afford or obtain financial help to
- 34 make adaptations to their homes may be unable to accommodate medical equipment
- 35 or be able to provide a safe environment for their preterm baby. Therefore the
- 36 committee made a recommendation about discharge to alternative, suitable
- 37 accommodation, such as a relative's home or hospice, could be an alternative.
- 38 The committee agreed that there was a need for the culturally sensitive delivery of
- 39 information, as it was noted that different cultural groups may have different family
- 40 structures and housing arrangements.

#### 4References

#### 42 Helder 2012

- 43 Helder, O. K., Verweij, J. C. M., Van Staa, A., Transition from neonatal intensive care
- 44 unit to special care nurseries: Experiences of parents and nurses, Pediatric Critical
- 45 Care Medicine 2012;13, 305-311

#### 1 Hobbs 2017

2 Hobbs, J. E., Tschudy, M. M., Hussey-Gardner, B., Jennings, J. M., Boss, R. D., "I don't know what I was expecting": Home visits by neonatology fellows for infants discharged from the NICU, Birth 2107; 22, 22

#### Review question 7.2 What are the support and

- 2 information needs of parents and carers of preterm
- **3 babies who are transitioning from the neonatal unit**
- 4 while receiving ongoing respiratory support?

#### **Introduction**

- 6 The discharge from hospital of a preterm baby on respiratory support can be very
- 7 challenging for the parents and carers. These challenges can relate to concerns
- 8 about the technology and equipment, the availability of ongoing support from
- 9 healthcare professionals and how to access this, everyday care of a baby on
- 10 respiratory support, long-term developmental concerns, psychosocial issues, and
- 11 what to do if problems or emergencies arise.
- 12 This review aims to identify what specific information and support is valued by the
- 13 parents and carers of babies who are discharged from hospital on respiratory
- 14 support, and the best format and methods to deliver this information and support.

#### **1Summary of the protocol**

- 16 See Table 3 for a summary of the population, intervention/context and outcome
- 17 characteristics of this review.

#### 18 Table 3: Summary of the protocol

Table 3: Summary of the protocol				
Population	<ul> <li>Inclusions:         <ul> <li>Parents or carers of preterm babies who require respiratory support</li> <li>Studies of parents or carers whose baby is born below 37 weeks gestation</li> </ul> </li> <li>Exclusions:         <ul> <li>Parents or carers of preterm babies with any congenital abnormalities excluding patent ductus arteriosus (PDA)</li> <li>Parents or carers of preterm babies who are ventilated solely</li> </ul> </li> </ul>			
	due to neurological disorders			
	<ul> <li>Quantitative studies that do not provide qualitative data i.e. survey data</li> </ul>			
Intervention/context	Type of support, information, and in what format, for parents and carers with regards to preterm babies who are transitioning from the neonatal unit and require ongoing respiratory support.			
Outcomes	Themes			
	Access to the multidisciplinary team (MDT), including medical, specialist nursing and therapy teams and community team, continuity of carers, and psychological support for parents/carers and others who share the same household, including siblings			
	<ul> <li>Community team involvement in discharge planning process</li> <li>Involvement in decision making and care planning for their child</li> </ul>			
	<ul> <li>Rooming-in; timing in relation to discharge, experience of stay</li> <li>Experience of training and the support available</li> <li>Experience of different types of training methods and resources available</li> </ul>			

- Interventions which enabled/would have enabled parents or carers to feel confident in caring for their baby
- Equipment provision
- Care package funded
- Including experiences of accessing funding package
- Parent and carer feelings about suitability of the package their child has been awarded
- Suitable discharge destination environment
  - Housing
  - Electricity
- Follow-up care in place before discharge with timely provision of relevant documentation such as discharge summaries, paediatric passport, etc.
- The format in which information is received
- · Equality considerations
  - Accessibility of training and training information (e.g. availability of easy read versions, large print, use of translation or signing services)
  - Advocacy services availability and use, including presence of an advocate during the training process.
  - Conflict process and resolution (for example, mediation processes) when parents and carers believe they are able to care for their baby, but professionals disagree. Parental/carer experiences of this.

Flexibility of training, for example, do parents and carers feel their needs were accommodated? Was it at a time that suited them? Did it last as long as they needed? Were they able to ask questions (and supported to ask questions)?

- 1 MDT: multidisciplinary team; PDA: patent ductus arteriosus
- 2 For full details see review protocol in appendix A.

#### **Glinical evidence**

4 A single search was conducted to look for systematic reviews and qualitative studies.

#### **Encluded studies**

- 6 Seven qualitative studies were included in this review (Burnham 2013; Dellenmark-
- 7 Blom 2016; Helder 2012; Jackson 2003; Jonsson 2003; Lindberg 2009; Murdoch
- 8 2012).

16

- 9 One of these studies focused on the perspective of mothers of preterm babies who
- 10 are transitioning from the neonatal unit while receiving respiratory support (Murdoch
- 11 2012). Six studies focused on the perspective of parents of preterm babies who are
- 12 transitioning from the neonatal unit while receiving respiratory support.
- 13 All of the studies collected data via semi-structured interviews. The most common
- 14 data analysis method was thematic content analysis. Countries in which the studies
- 15 took place were:
  - 2 from Canada (Burnham 2013; Murdoch 2012)
- 1 from the Netherlands (Helder 2012)
- 4 from Sweden (Dellenmark-Blom 2016; Jackson 2003; Jonsson 2003;
- 19 Lindberg 2009)

- 1 See the literature search strategy in appendix B and study selection flow chart in
- 2 appendix C.

#### **Excluded studies**

- 4 Studies not included in this review with reasons for their exclusions are provided in
- 5 appendix K.

#### Summary of qualitative studies included in the evidence review

7 Table 4 provides a brief summary of the included studies.

8 Table 4: Summary of included studies

Canada  N=20 Female, n (%)= 16 (80) Age, years, mean (SD)= 35.9 (5.7)  Study babies N=24  discharge a  Setting At the hosp parents' ho	<b>B</b>
Burnham Study Participants  Burnham 2013 Sampling Maximum Maxi	Information needs  variance sampling at pre- and post-discharge  Preparation -How to prepare the home -Hands-on experience in the NICU
Burnham 2013 Study participants N=20 Canada Female, n (%)= 16 (80) Age, years, mean (SD)= 35.9 (5.7) Study babies N=24 Sampling Maximum of discharge and Maximum of discharge and Maximum of discharge and discharge	Information needs  variance sampling at pre- and post-discharge  Preparation -How to prepare the home -Hands-on experience in the NICU
2013  participants N=20  Canada  Female, n (%)= 16 (80) Age, years, mean (SD)= 35.9 (5.7)  Study babies N=24  Maximum v discharge a  Setting At the hosp parents' ho	Preparation -How to prepare the home -Hands-on experience in the mes  Preparation -How to prepare the home -Hands-on experience in the NICU
weeks, mean (SD)=31.1 (3.1) Birth weight, grams, mean (SD)=1436.9 (488.1) Mechanical ventilation, n (%)= 6 (33.3) CPAP/HFNC, n (%)= 15 (62.5)  performed in hour. Partic group were home with a post-discharation in the post	-Physiological needs -How to tell if baby is doing well -What to do if something goes wrong -Medical information specific to baby's condition  -Physiological needs -How to tell if baby is doing well -What to do if something goes wrong -Medical information specific to baby's condition  -Physiological needs -How to tell if baby is doing well -What to do if something goes wrong -Medical information specific to baby's condition
Dellenmar k-Blom participants N=22 Mother, n (%)= 15  Sweden (68.2)  Sampling Purposive s amongst participants Setting	-Trust and security  Information needs  sampling to ensure variability articipants  Routine care -How to tell if baby is doing well

Chudu			
Study and			
setting	Participants	Methods	Themes
g	First time parent, n (%)= 18 (81.8)	Parents' homes	Support needs
	Study babies N=18 Male sex, n (%)= 9 (50) Gestational age, weeks, median (IQR)= 33.5 (25- 37) Birth weight, grams, median (IQR)= 1947.5 (870-3200) Medical treatment in the NICU, n (%) Mechanical ventilation= 2 (11.1) Nasal CPAP= 5 (27.8)	Data collection Open-ended interviews were audiorecorded and transcribed verbatim. Interviews were 26-52 minutes and were started with similar questions aimed to probe the parents to go in depth in their experiences.  Data analysis Thematic content analysis was used. Meanings were discussed until the researchers agreed. Validity was strengthened through discussions among the researchers about the relationship between parts and the whole of the text.	NICU staff support -Being able to contact about questions -Building confidence -Trust and security
Helder 2012 the Netherlan ds	Study participants N= 28 Mothers, n (%)= 21 (75) Non-Dutch ethnic background, n (%)= 7 (25) Mother's age, years, mean (SD)= 31.2 (4.6)  Study babies N=24 Gestational age, weeks, median (IQR)= 30.7 (26.0-39.4) Birth weight, grams, median (IQR)= 1780 (635-4000) Female, n (%)= 16 (66.7) CRIB score, mean (SD)= 2 (0.5)	Sampling Sampling method not reported  Setting 5 level 2 SCNs in the Netherlands  Data collection The interview guide was developed from a literature review. Interviews were conducted by pairs of nursing students under supervision from the second author. Interviews were audio-recorded and transcribed verbatim.  Data analysis Thematic content analysis was used.	Preparation -Transportation from NICU Support needs NICU staff support -Trust and security
Jackson 2003 Sweden	Study participants N=14 Mothers, n (%)= 7	Sampling Not reported	Information needs  Preparation -Hands-on
2.5.20	(50) Mother's age, years, median	Setting	experience in the NICU

Study			
_			
Jonsson 2003 Sweden	Participants (IQR)= 32.5 (28-37) Father's age, years, median (IQR)= 32.5 (31-39)  Study babies N=8 Male, n (%)= 5 (62.5) Birth weight, grams, median (IQR)= 1467.5 (660-2385) Gestational age, weeks, median (IQR)= 30 (25-34)  Study participants N=23 Age, n (%) < 30=11 (47.8) 31-35= 7 (30.4) > 36= 5 (21.7) Female, n (%)=17 (73.9)  Study babies Not reported	Interviews 1 and 2 took place in the NICU, interviews 3 and 4 took place in the parents' homes  Data collection The majority of interviews were conducted with mothers and fathers together. Interviews lasted 45-90 minutes and were audio-recorded and transcribed verbatim. Interviews took place at during different time points in the baby's development - 1-2 weeks after birth; at the time of discharge from the NICU; when the baby was 6 months old; and when the baby was 18 months old.  Data analysis Thematic content analysis was used. The syntheses were validated by the second author and discrepancies were discussed until agreement was reached.  Sampling Strategic variance sampling to select participants with varying ages, gender and profession  Setting Parents' homes or the hospital  Data collection Interviews were audio-recorded and transcribed verbatim and lasted 30-60 minutes. The interview questions were developed by the study authors and were piloted on 2 participants.	Themes Support needs NICU staff -Feeling ready -Trust and security  Familial Other parents  Information needs Format -Personnel Support needs NICU staff -Being able to contact about questions  Familial
		Data analysis Thematic content analysis was used. Data saturation was reached after 16 interviews.	
Lindberg 2009 Sweden	Study participants N=20 Mothers, n (%)= 10 (50) Mother's age, years, median (IQR)= 33.5 (28- 39) Father's age, years, median	Sampling Purposive sampling  Setting In the NICU or over the phone  Data collection Data were collected from interviews and notes. The parents were interviewed together. The parents were encouraged to talk freely about their own	NICU staff -Being able to contact about questions -Feeling ready -Trust and security

04			
Study			
and			
setting	Participants	Methods	Themes
	(IQR)= 37.5 (29- 44)  Study babies N=10 Gestational age, weeks, range= 24-33 Gestational age at discharge, range= 34-39	experiences on the use of the video conferencing. Interviews lasted 30-60 minutes, were audio recorded and were transcribed verbatim.  Data analysis Thematic content analysis was used.	
Murdoch	Study	Sampling	Information needs
2012 Canada	participants N=9 Mothers, n= 9 Age, years, median (IQR)= 34 (27-42) First pregnancy, n	Opportunistic sampling of members who participated in a larger RCT  Setting  Parents' homes or over the phone	Routine care -How to tell if the baby is doing well Medical information specific to the baby's condition
	(%)= 6 (66%)	Bata sallastias	Condition
	(70)-0 (0070)	Data collection	Format
	Study babies	Interviews were audio-recorded. Interviewers used an interview guide	-Resource
	N=10 (1 set of twins) Male, n (%)= 6 (60) Gestational age, weeks, median (IQR)= 31 (24-42) Diagnoses, n (%) Preterm= 8 (80) Chronic lung disease= 4 (40) Patent ductus arteriosus= 4 (40) Respiratory distress syndrome= 2 (20)	that was developed from previous studies. Data was collected until thematic saturation was reached.  Data analysis Thematic content analysis was used. Credibility, transferability, dependability and confirmability were achieved through various methods- a reflective diary, audio-recorder, auditing transcripts, and validation of results by the second author.	Support needs NICU staff -Being able to contact about questions -Building confidence  Familial

- 1 CPAP: continuous positive airway pressure; HFNC: high flow nasal cannula; IQR: intra-quartile range; NICU: neonatal intensive care unit; SCN: specialist care nursery; SD: standard deviation
- 3 See appendix D for full evidence tables and appendix M for the qualitative quotes
- 4 and excerpts extracted from the studies.

#### Quality assessment of clinical studies included in the evidence review

6 See appendix F for full GRADE-CERqual tables.

#### **Economic evidence**

- 8 No economic evidence on the cost effectiveness of aspects of care that parents and
- 9 carers value when their baby requires respiratory care was identified by the literature
- 10 searches of the economic literature undertaken for this guideline.

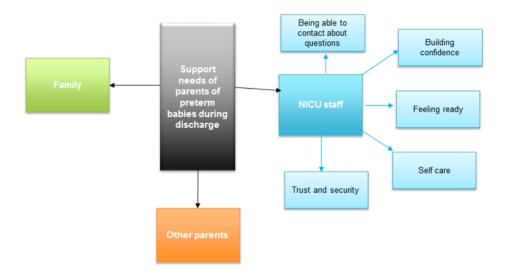
#### **Economic model**

- 2 No economic modelling was undertaken for this review because the committee
- 3 agreed that other topics were higher priorities for economic evaluation.

#### **Qualitative evidence statements**

#### Support needs of parents of preterm babies during discharge

Figure 2: Thematic map



#### Theme 1: NICU staff support

#### 7 Being able to contact about questions

- 8 Very low quality evidence from 5 studies conducted in different countries (Canada;
- 9 Sweden) among mothers and parents of preterm babies who are transitioning
- from the neonatal unit while receiving respiratory support reported that having
- 11 access to NICU staff, preferably those who cared for the baby, to ask guestions or
- 12 discuss concerns improved feelings of support and decreased feelings of
- 13 abandonment.

#### 14 Building confidence

- 15 Low quality evidence from 2 studies conducted in different countries (Canada;
- Sweden) among mothers and parents of preterm babies who are transitioning
- 17 from the neonatal unit while receiving respiratory support reported that NICU staff
- who provided confirmation and reassurance of the baby's health helped to build
- mothers' confidence in their caretaking abilities.

#### 20 Feeling ready

- High quality evidence from 3 studies conducted in different countries (Canada;
- Sweden) among parents of preterm babies who are transitioning from the
- 23 neonatal unit while receiving respiratory support reported that receiving positive
- 24 feedback from NICU staff and participating in the decisions about the discharge
- 25 enabled parents to feel ready.

#### 1 Self care

- 2 Moderate quality evidence from 1 study conducted in Canada among parents of
- 3 preterm babies who are transitioning from the neonatal unit while receiving
- 4 respiratory support reported that NICU staff could remind them about the risk of
- 5 postpartum depression and provide resources to provide more support.

#### 6 Trust and security

- 7 Low quality evidence from 5 studies conducted in different countries (Canada; the
- 8 Netherlands; Sweden) among parents of preterm babies who are transitioning
- 9 from the neonatal unit while receiving respiratory support reported that remaining
- in contact with the NICU post-discharge helped them to feel secure. Having
- 11 nurses who took the time to discuss questions and concerns while the baby was
- still in the NICU helped the parents to build a sense of trust and feel secure
- 13 knowing that they could contact staff later on.

#### 14Theme 2: Family

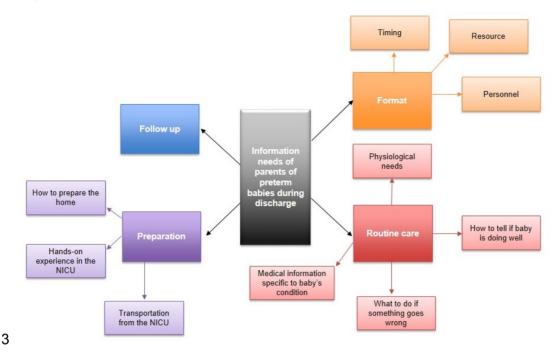
- 15 Very low quality evidence from 3 studies conducted in different countries (Canada;
- Sweden) among mothers and parents of preterm babies who are transitioning
- from the neonatal unit while receiving respiratory support reported that receiving
- support from parents or siblings helped mothers to become confident in their
- 19 caretaking abilities and to distribute the burden of caretaking and household tasks.
- 20 Additionally, fathers described feeling guilty when they struggled to balance work
- and family life and wished that they could provide more support for the mothers.

#### 27heme 3: Other parents

- 23 Moderate quality evidence from 1 study conducted in Sweden among parents of
- 24 preterm babies who are transitioning from the neonatal unit while receiving
- respiratory support reported that mothers wanted to be in contact with other
- 26 mothers of preterm babies whom they had met through parent education sessions
- 27 organised by the NICU.

#### Information needs of parents of preterm babies during discharge

#### 2 Figure 3: Thematic map



**Theme 1: Preparation** 

#### 5 How to prepare the home

- Moderate quality evidence from 1 study conducted in Canada among parents of
   preterm babies who are transitioning from neonatal unit while receiving respiratory
- 8 support reported that parents would have liked a clear set of instructions about the
- 9 specialised materials that needed to be bought ahead of time, such as
- thermometers, scales, and respiratory monitors, as well as changes that needed
- 11 to be made to the home to accommodate equipment. Furthermore, safety
- 12 instructions, such as limiting the number of visitors to the home should be
- 13 communicated prior to discharge.

#### 14 Hands-on experience in the NICU

- 15 Moderate quality evidence from 2 studies conducted in different countries
- 16 (Canada; Sweden) among parents of preterm babies who are transitioning from
- 17 the neonatal unit while receiving respiratory support reported that having the
- 18 opportunity to care for the baby in a safe environment with the supervision of
- 19 nurses and staying overnight in the NICU gave them an idea for what life would be
- 20 like post-discharge and feel ready to take on the caregiving responsibilities.

#### 21 Transportation from the NICU

- 22 Very low quality evidence from 1 study conducted in the Netherlands among
- parents of preterm babies who are transitioning from the neonatal unit while
- 24 receiving respiratory support reported that parents wanted a consistent policy on
- 25 whether they could join their baby in the ambulance during transfer from the NICU.

#### Theme 2: Routine care

#### 2 How to tell if the baby is doing well

- Moderate quality evidence from 3 studies conducted in different countries
- 4 (Canada; Sweden) among parents of preterm babies who are transitioning from
- 5 the neonatal unit while receiving respiratory support reported that learning about
- 6 their baby's physiological needs, such as breathing patterns, recognising signs of
- 7 illness was important for parents to feel prepared for discharge.

#### 8 What to do if something goes wrong

- 9 Moderate quality evidence from 1 study conducted in Canada among parents of
- 10 preterm babies who are transitioning from the neonatal unit while receiving
- 11 respiratory support reported that parents wanted to know how to handle
- 12 emergencies, for example if the baby stopped breathing. Courses such as infant
- cardiopulmonary resuscitation would enable parents to feel better equipped.

#### 14 Medical information specific to the baby's condition

- 15 Low quality evidence from 2 studies conducted in Canada among mothers and
- parents of preterm babies who are transitioning from the neonatal unit while
- 17 receiving respiratory support reported that parents wanted information specific to
- their baby's health condition and about how to perform medical procedures at
- 19 home.

#### 20 Physiological needs

- 21 Low quality evidence from 1 study conducted in Canada among parents of
- 22 preterm babies who are transitioning from neonatal unit while receiving respiratory
- 23 support reported that parents wanted to know how to adjust routines from the
- NICU to use in the home. Knowing how to switch to on-demand feeding, how to
- 25 know when volumes of feeding should be increased, and changes in
- breastfeeding patterns was important. Additionally, parents wanted to know how
- to position and swaddle babies when sleeping and what temperature the baby
- 28 should be at.

#### 29ollow up

- 30 Moderate quality evidence from 1 study conducted in Canada among parents of
- 31 preterm babies who are transitioning from the neonatal unit while receiving
- 32 respiratory support reported that having a list of paediatricians to contact post-
- 33 discharge, how to make follow-up appointments, if babies might experience
- 34 developmental delays, and immunisations their child required.

#### 3**5heme 3: Format**

#### 36 Timing

- 37 Low quality evidence from 1 study conducted in Canada among parents of
- preterm babies who are transitioning from the neonatal unit while receiving
- respiratory support reported that preparation should begin on admission with the
- 40 opportunity to follow up and ask questions throughout the baby's stay in the NICU.
- 41 However, some noted that parents might not be able to absorb information if it is
- 42 given too soon after admission.

#### 43 Resources

- Low quality evidence from 3 studies conducted in different countries (Canada; the
- Netherlands; Sweden) among parents of preterm babies who are transitioning
- 46 from the neonatal unit while receiving respiratory support reported that regardless

- of format, resources should be up to date. Pamphlets on basic care at home,
- 2 nurse-led group support and information sessions, online resources (links to
- websites or NICU parent networks), and books were mentioned as ideal ways to
- 4 receive information.

#### 5 Personnel

- 6 Low quality evidence from 2 studies conducted in different countries (Canada;
- 7 Sweden) among parents of preterm babies who are transitioning from the
- 8 neonatal unit while receiving respiratory support reported that parents preferred
- 9 learning how to care for their baby from the nurse, but wished to speak with
- 10 physicians about the baby's health status.

#### 1Economic evidence statements

- 12 No economic evidence on the cost effectiveness of the support and information
- arrangements for the needs of parents and carers of preterm babies who are
- transitioning from the neonatal unit while receiving respiratory support was
- 15 available.

#### 1Recommendations

- 17 G2.1 Recognise parents and carers as partners in the discharge planning process.
- 18 Answer their questions and concerns as they arise, and support them in making joint
- 19 decisions with the discharge team.
- 20 G2.2 Throughout the baby's neonatal admission, provide support and guidance for
- 21 parents and carers with constructive and supportive feedback about how to care for
- 22 their baby and how to use specialist equipment. Use a formal competency-based
- 23 assessment tool to evaluate the safe use of specialist equipment.
- 24 G2.3 Discuss any modifications that parents and carers might need to make to their
- 25 home as soon as possible.
- 26 G2.4 Educate parents and carers about possible emergencies that may arise, how to
- 27 deal with them and who to contact for help and advice. This should include how to
- 28 carry out cardiopulmonary resuscitation, and what to do if there are problems with
- 29 any specialist equipment.
- 30 G2.6 Provide parents and carers with opportunities to care for their baby overnight.
- 31 G2.7 Provide information for parents and carers to help them care for their baby
- 32 safely and confidently after discharge. Follow the principles on communication and
- 33 information-giving in section 1.6 of this guideline, and also see the NICE guideline on
- 34 postnatal care. Information should include:
- how to recognise signs of deterioration in their baby, and what to do
- 36 how to adapt routines such as feeding and sleeping after discharge, and
- 37 information about safe sleep guidance
- 38 how to make follow-up appointments and timing of immunisations
- 39 who to contact after discharge, as well as a list of useful medical contacts.
- 40 G2.8 Tell parents and carers about sources of support after discharge, for example:
- 41 opportunities for peer support
- help and support for their own needs, for example, postnatal depression (also see
- 43 the NICE guideline on antenatal and postnatal mental health).

#### Rationale and impact

#### Why the committee made the recommendations

- 3 There was evidence that parents and carers value having support and information
- 4 about their baby's routine care, being involved in preparing for the baby's discharge,
- 5 and having information on equipment, identifying illness in their baby, and dealing
- 6 with emergencies. Parents and carers also value information about future care, such
- 7 as contact details, follow-up appointments and immunisations, ongoing peer-support
- 8 and self-care for problems such as postnatal depression.

#### Impact of the recommendations on practice

- 10 The committee agreed that the recommendations would not result in a major change
- 11 in practice, but will help improve consistency in delivering best practice.

#### 12 The committee's discussion of the evidence

#### 1Interpreting the evidence

#### 14 he outcomes that matter most

- 15 The committee agreed that it was important to meet the support and information
- 16 needs of parents and carers of preterm babies who are transitioning from the
- 17 neonatal unit while receiving ongoing respiratory support, and identified that this
- 18 would need to cover themes including access to the multidisciplinary team for
- 19 information, involvement in decision-making relating to the discharge process,
- 20 training and support to learn to care for their baby, equipment, advice about their
- 21 accommodation requirements to allow for use of their baby's specialist respiratory
- 22 equipment, follow-up, and access to psychological support. All of these thematic
- 23 outcomes were considered useful once the evidence had been appraised, and the
- 24 evidence covered these themes, and additional themes relating to transportation (of
- 25 their baby and any associated equipment), how to tell if their baby was ill, and what
- 26 to do if something went wrong.
- 27 Together, these thematic outcomes reflect what support and information parents of
- 28 preterm babies need when transitioning from the neonatal unit while receiving
- 29 ongoing respiratory support because evidence came from interviews with parents
- 30 themselves.
- 31 The committee did not prioritise any of the thematic outcomes.

#### 3The quality of the evidence

- 33 The quality of the evidence ranged from very low to high. The quality of evidence was
- 34 most often downgraded because of methodological limitations affecting the risk of
- 35 bias, relevance of the findings, coherence of the findings and the adequacy of the
- 36 findings.
- 37 Methodological limitations affecting the risk of bias were attributable to studies not
- 38 critically reflecting on the researchers' roles in the research, not describing the
- 39 sampling method, or not discussing methods to ensure credibility, such as
- 40 triangulation or participant validation. Additionally, one study did not provide sufficient
- 41 data to support the findings (Jonsson 2003).

- 1 The confidence in the relevance of the findings was downgraded because a portion
- 2 of the babies were born full-term, had a congenital malformation, or did not require
- 3 respiratory support.
- 4 The confidence in the coherence of the findings was downgraded in one instance as
- 5 a result of a study reporting conflicting evidence.
- 6 The confidence of the adequacy of the evidence was downgraded in some instances
- 7 as a result of data saturation not being reached. In these instances, the themes were
- 8 under-developed and analysing further data would likely reveal new data and
- 9 concepts.
- 10 The committee did not think that a research recommendation was a priority due to
- 11 the strength and quantity of the evidence.

#### 1Benefits and harms

- 13 The interviews with parents identified that parents liked to be able to ask questions of
- 14 staff while their baby was still receiving care in the neonatal unit in order to build their
- 15 confidence to care for their baby and trusting relationships with the staff. After
- 16 discharge, parents valued being able to contact members of staff to ask questions
- 17 about the care of their baby, and found it particularly helpful to be able to contact staff
- 18 who had actually cared for their baby. It was also useful for parents to help them feel
- 19 ready for the discharge by building their confidence, enabling them to participate in
- 20 decisions about the discharge planning and to gain hands-on experience caring for
- 21 their baby in a safe environment with support from the nurses. This included caring
- 22 for their baby overnight before discharge. The parents also stated that advice about
- 23 self-care was important, and should include support for postpartum depression. It
- 24 was also felt by the parents to be important that other members of the family
- 25 (partners, siblings) received support too, and they wanted to be able to contact other
- 26 parents of preterm babies for advice.
- 27 In terms of information, the parents wished to receive advice about how to prepare
- 28 their home, including the equipment needed, whether any changes needed to be
- 29 made to the home, and how to make the home safe for the baby, including issues
- 30 such as whether visitors should be restricted. They also wanted information on how
- 31 to transport their baby (especially with equipment), how to tell if their baby was ill,
- 32 and what to do if something went wrong. In order to care for their babies at home,
- 33 parents wanted information on how to meet their baby's physiological needs (for
- 34 example altering the amount of feeds, positioning, adjusting routines, or carrying out
- 35 simple medical procedures). Parents wanted to be given follow-up information –
- 36 including who they could contact, how to make follow-up appointments,
- 37 immunisations and any potential developmental issues.
- 38 The parents wanted information to be provided throughout their baby's stay on the
- 39 NICU, as well as after discharge. Up to date information including pamphlets, support
- 40 groups, on-line resources and books were appreciated in conjunction with receiving
- 41 information directly from nurses and other NICU staff.
- 42 The committee agreed that the benefits of the recommendations would include a
- 43 better and more streamlined parent/carer experience throughout the discharge
- 44 process, as well as safer environments for babies when discharged home. No harms
- 45 were identified.

#### Cost effectiveness and resource use

- 2 The committee expressed the view that providing care in line with the
- 3 recommendations would not incur significant extra resource implications.
- 4 The cost of providing additional constructive and supportive feedback, information
- 5 about the risks to mental health, facilitating access to support groups, providing
- 6 support and information to parents and carers before discharge, and any required
- 7 training of healthcare professionals would be small.
- 8 The recommendations have the potential to improve the support provided to parents
- 9 and carers, lead to better communication with the family and carers and as a result
- 10 may lead to more appropriate and safer discharge of a baby on oxygen or assisted
- 11 ventilation and potentially lead to improved health outcomes. If earlier discharge can
- 12 be facilitated this may also lead to overall cost savings to the healthcare system.

#### 10ther factors the committee took into account

- 14 The committee discussed inequalities in access to social housing and service
- 15 provision and the financial strains that having a preterm baby may place on
- 16 parents/carers. Families who are ineligible for travel subsidies may find it difficult to
- 17 regularly travel to the NICU before their baby is discharged, which could affect their
- 18 ability to gain hands-on experience in daily care needs. Additionally, families who are
- 19 in unsuitable accommodation, or who cannot afford or obtain financial help to make
- 20 adaptations to their homes may be unable to accommodate medical equipment or be
- 21 able to provide a safe environment for their preterm baby. The committee did
- 22 recognise this and included in their recommendations that babies could be
- 23 discharged to alternative suitable accommodation if the parents' home was not
- 24 suitable.
- 25 The committee agreed that support and information should be provided in an
- 26 accessible format for example in different languages. Parents with low-literacy may
- 27 struggle to access written information, and these parents/carers may need
- 28 information in alternative formats.

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# 1 Appendices

## **Appendix A – Review protocols**

Review protocol for question 7.1 What factors are important when planning for the safe transition from the neonatal unit of a

4 baby born preterm, requiring respiratory support?

Field (based on PRISMA-P	Content
Review question in SCOPE	What should be included in a discharge plan to facilitate the safe discharge of a baby on oxygen or assisted ventilation?
Review question in guideline	What factors are important when planning for the safe transition from the neonatal unit of a baby born preterm, requiring respiratory support?
Type of review question	Qualitative
Objective of the review	To determine what minimum requirements are important from the professional's perspective in order to facilitate the safe transition of a preterm baby on respiratory support
Eligibility criteria – population/disease/condition/issue/domain	<ul> <li>Professionals in the multidisciplinary team (MDT) caring for preterm babies who require respiratory support</li> <li>Exclusions:</li> <li>Professionals caring for preterm babies with any congenital abnormalities excluding PDA</li> <li>Professionals caring for preterm babies who are ventilated solely due to neurological disorders</li> <li>Studies where &gt;2/3 of preterm babies receive respiratory support will be included in the review</li> </ul>
	Quantitative studies that do not provide qualitative data i.e. survey data
Eligibility criteria – intervention(s)/exposure(s)/prognostic factor(s)	Context

Field (based on PRISMA-P	Content
	Minimum requirements that professionals caring for preterm babies requiring respiratory support find important in regards to the safe transition of the baby from the neonatal unit to a care setting (i.e. the home or hospice care) where the parents/carers, as opposed to healthcare professionals, are the main caregivers.
Eligibility criteria – comparator(s)/control or reference (gold) standard	N/A
Outcomes and prioritisation	<ul> <li>Qualitative Themes</li> <li>Themes will be identified from the literature, but expected themes are:</li> <li>Access to the MDT, including medical, specialist nursing and therapy teams, and psychological support</li> <li>Community team involvement</li> <li>Training or qualifications of the care provider that will be providing care post neonatal unit discharge</li> <li>Named discharge co-ordinator or key worker, such as named consultant or nurse</li> <li>Training and completion of competencies of parents</li> <li>Medication administration</li> <li>Support to facilitate the confidence of parents</li> <li>Equipment provision</li> <li>Care package funded</li> <li>Suitable discharge destination environment</li> <li>Housing</li> <li>Electricity</li> <li>Follow Up Care including discharge summaries</li> </ul>
Eligibility criteria – study design	Qualitative designs: Ethnography, grounded theory, phenomenological, narrative  Quantitative designs: Descriptive (from which only qualitative data will be extracted)

Field (based on PRISMA-P	Content
Other inclusion exclusion criteria	<ul> <li>Inclusion:</li> <li>English language</li> <li>Developed countries with a neonatal care system similar to the UK (e.g. OECD countries)</li> <li>Studies conducted post 2000</li> </ul>
Proposed sensitivity/sub-group analysis, or meta-regression	N/A
Selection process – duplicate screening/selection/analysis	Sifting, data extraction, appraisal of methodological quality and GRADE-CERQual assessment will be performed by the systematic reviewer. Resolution of any disputes will be with the senior systematic reviewer and the Topic Advisor. Quality control will be performed by the senior systematic reviewer.  Dual sifting and data extraction will not be undertaken for this question.
Data management (software)	Microsoft Excel will be used to organise data into themes
Pata management (contrare)	NGA STAR software will be used for study sifting, data extraction, recording quality assessment using checklists and generating bibliographies/citations.
Information sources – databases and dates	Sources to be searched: Medline, Medline In-Process, CCTR, CDSR, DARE, HTA, Embase, PsycINFO, CINAHL Limits (e.g. date, study design):  • Apply standard animal/non-English language exclusion  • Dates: from 2000  Studies conducted post 2000 will be considered for this review question, as the GC felt that significant advances have occurred in discharge planning policy and management since this time period and outcomes for preterm babies prior to 2000 are not the same as post 2000.
Identify if an update	Not an update
Author contacts	Developer: NGA
Highlight if amendment to previous protocol	N/A
Search strategy	For details please see appendix B

Field (based on PRISMA-P	Content	
Data collection process – forms/duplicate	A standardised evidence table format will be used, and published as appendix D (clinical evidence tables) or H (economic evidence tables).	
Data items – define all variables to be collected	For details please see evidence tables in appendix D (clinical evidence tables) or H (economic evidence tables).	
Methods for assessing bias at outcome/study level	The methodological quality of each study will be assessed using the Cochrane checklist for evaluating the quality of qualitative research	
Criteria for quantitative synthesis (where suitable)	N/A	
Methods for analysis – combining studies and exploring (in)consistency	Appraisal of methodological quality:	
	The quality of the evidence for a theme (i.e. across studies) will be assessed using GRADE-CERQual, a process like GRADE that is adapted for qualitative information	
	Synthesis of data:	
	Thematic content analysis will be used to synthesise the qualitative data. It is a qualitative analytic method that identifies and reports recurrent themes. Thematic analysis is used in qualitative research to focus on examining themes within data and goes beyond counting phrases or words to identifying implicit and explicit ideas within the data.	
	A theme map may also be presented if there is sufficient information identified in the search.	
Meta-bias assessment – publication bias, selective reporting bias	N/A	
Assessment of confidence in cumulative evidence	For details please see sections 6.4 and 9.1 of Developing NICE guidelines: the manual.	
Rationale/context – Current management	For details please see the introduction to the evidence review in the full guideline.	
Describe contributions of authors and guarantor	A multidisciplinary committee developed the guideline. The committee was convened by The National Guideline Alliance and chaired by Dr Janet Rennie in line with section 3 of Developing NICE guidelines: the manual. Staff from The National Guideline Alliance undertook systematic literature searches, appraised the evidence, conducted meta-analysis and cost-effectiveness analysis where appropriate, and drafted the guideline in	

Field (based on PRISMA-P	Content
	collaboration with the committee. For details please see the methods chapter of the full guideline.
Sources of funding/support	The National Guideline Alliance is funded by NICE and hosted by the Royal College of Obstetricians and Gynaecologists
Name of sponsor	The National Guideline Alliance is funded by NICE and hosted by the Royal College of Obstetricians and Gynaecologists
Roles of sponsor	NICE funds The National Guideline Alliance to develop guidelines for those working in the NHS, public health, and social care in England
PROSPERO registration number	Not registered

Review protocol for question 7.2 What are the support and information needs of parents and carers of preterm babies who are 2 transitioning from the neonatal unit while receiving ongoing respiratory support?

Field (based on PRISMA-P	Content
Review question in SCOPE	What should be included in a discharge plan to facilitate the safe discharge of a baby on oxygen or assisted ventilation?
Review question in guideline	What are the support and information needs of parents and carers of preterm babies who are transitioning from the neonatal unit while receiving ongoing respiratory support?  SNRC Review Question 7.1 answers the review question posed in the scope, while Review Question 7.2 has been added in addition to provide greater context to the scope area.
Type of review question	Qualitative
Objective of the review	To determine what support and what information, and in what format, is valued by parents and carers of preterm babies who are transitioning from the neonatal unit while receiving ongoing respiratory support.  Four objectives have been set up:  1. Explore the areas of support that would benefit parents and carers of preterm babies who are transitioning from the neonatal unit while receiving ongoing respiratory support and assess the means through which parents and carers would like to receive support  2. Explore the areas of support that parents and carers have found acceptable and effective  3. To explore the type of information found valuable by parents and carers of preterm babies who are transitioning from neonatal unit while receiving ongoing respiratory support  4. To assess the formats through which parents and carers would like to receive information on transitioning a preterm baby from neonatal unit while receiving ongoing respiratory support
Eligibility criteria – population/disease/condition/issue/domain	Inclusions:
	<ul> <li>Parents or carers of preterm babies who require respiratory support</li> </ul>

Field (based on PRISMA-P	Content	
	<ul> <li>Studies of parents or carers whose baby is born below 37 weeks gestation</li> </ul>	
	Exclusions:	
	<ul> <li>Parents or carers of preterm babies with any congenital abnormalities excluding PDA</li> </ul>	
	<ul> <li>Parents or carers of preterm babies who are ventilated solely due to neurological disorders</li> </ul>	
	<ul> <li>Studies where &gt;2/3 of preterm babies receive respiratory support will be included in the review</li> </ul>	
	<ul> <li>Quantitative studies that do not provide qualitative data i.e. survey data</li> </ul>	
Eligibility criteria – intervention(s)/exposure(s)/prognostic factor(s)	Context:	
	Type of support, information, and in what format, for parents and carers with regards to preterm babies who are transitioning from the neonatal unit and require ongoing respiratory support.	
Eligibility criteria – comparator(s)/control or reference (gold) standard	N/A	
Outcomes and prioritisation	Themes	
	<ul> <li>Themes will be identified from the literature, but expected themes are:</li> </ul>	
	<ul> <li>Access to the MDT (multidisciplinary team), including medical, specialist nursing and therapy teams and community team, continuity of carers, and psychological support for parents/carers and others who share the same household, including siblings</li> </ul>	
	Community team involvement in discharge planning process	
	Involvement in decision making and care planning for their child.	
	Rooming-in; timing in relation to discharge, experience of stay    Symposium	
	<ul> <li>Experience of training and the support available</li> <li>Experience of different types of training methods and resources</li> </ul>	
	available	

Field (based on PRISMA-P	Content		
	<ul> <li>Interventions which enabled/would have enabled parents or carers to feel confident in caring for their baby</li> <li>Equipment provision</li> <li>Care package funded</li> <li>Including experiences of accessing funding package</li> <li>Parent and carer feelings about suitability of the package their child has been awarded</li> <li>Suitable discharge destination environment</li> <li>Housing</li> <li>Electricity</li> <li>Follow-up care in place before discharge with timely provision of relevant documentation such as discharge summaries, paediatric passport, etc.</li> <li>The format in which information is received</li> <li>Equality considerations</li> <li>Accessibility of training and training information (e.g. availability of easy read versions, large print, use of translation or signing services)</li> <li>Advocacy services – availability and use, including presence of an advocate during the training process.</li> <li>Conflict – process and resolution (for example, mediation processes) when parents and carers believe they are able to care for their baby, but professionals disagree. Parental/carer experiences of this.</li> <li>Flexibility of training, for example, do parents and carers feel their needs were accommodated? Was it at a time that suited them? Did it last as long as they needed? Were they able to ask questions (and supported to ask questions)?</li> </ul>		
Eligibility criteria – study design	Qualitative methods: Semi-structured and structured interviews, focus groups, observations Quantitative designs:		

Field (based on PRISMA-P	Content	
	Surveys (from which only qualitative data will be included)	
Other inclusion exclusion criteria	<ul> <li>Inclusion:         <ul> <li>English language</li> </ul> </li> <li>Developed countries with a neonatal care system similar to the UK (e.g. OECD countries)</li> <li>Studies conducted post 2000</li> <li>Studies conducted post 2000 will be considered for this review question, as the GC felt that significant advances have occurred in discharge planning policy and management that would influence the supports available to parents and carers of preterm babies, and thus what they might value, post-2000 that are not the same as prior to 2000.</li> </ul>	
Proposed sensitivity/sub-group analysis, or meta-regression	N/A	
Selection process – duplicate screening/selection/analysis	Sifting, data extraction, appraisal of methodological quality and GRADE-CERQual assessment will be performed by the systematic reviewer. Resolution of any disputes will be with the senior systematic reviewer and the Topic Advisor. Quality control will be performed by the senior systematic reviewer.  Dual sifting and data extraction will not be undertaken for this question.	
Data management (software)	NGA STAR software will be used for study sifting, data extraction, recording quality assessment using checklists and generating bibliographies/citations. Microsoft Excel will be used to organise data into themes	
Information sources – databases and dates	Sources to be searched: Medline, Medline In-Process, CCTR, CDSR, DARE, HTA, Embase, PsycINFO, CINAHL  Limits (e.g. date, study design):  Apply standard animal/non-English language exclusion  Dates: from 2000	
Identify if an update	Not an update	
Author contacts	Developer: NGA	
Highlight if amendment to previous protocol	N/A	

Field (based on PRISMA-P	Content	
Search strategy	For details please see appendix B.	
Data collection process – forms/duplicate	A standardised evidence table format will be used, and published as appendix D (clinical evidence tables) or H (economic evidence tables).	
Data items – define all variables to be collected	For details please see evidence tables in appendix D (clinical evidence tables) or H (economic evidence tables).	
Methods for assessing bias at outcome/study level	The methodological quality of each study will be assessed using the Cochrane checklist for evaluating the quality of qualitative research	
Criteria for quantitative synthesis (where suitable)	N/A	
Methods for analysis – combining studies and exploring (in)consistency	Appraisal of methodological quality: The quality of the evidence for a theme (i.e. across studies) will be assessed using GRADE-CERQual, a process like GRADE that is adapted for qualitative information  Synthesis of data: Thematic content analysis will be used to synthesise the qualitative data. It is a qualitative analytic method that identifies and reports recurrent themes. Thematic analysis is used in qualitative research to focus on examining themes within data and goes beyond counting phrases or words to identifying implicit and explicit ideas within the data.  A theme map may also be presented if there is sufficient information identified in the search.	
Meta-bias assessment – publication bias, selective reporting bias	N/A	
Assessment of confidence in cumulative evidence	For details please see sections 6.4 and 9.1 of Developing NICE guidelines: the manual.	
Rationale/context – Current management	For details please see the introduction to the evidence review in the full guideline.	
Describe contributions of authors and guarantor	A multidisciplinary committee developed the guideline. The committee was convened by The National Guideline Alliance and chaired by Dr Janet Rennie in line with section 3 of Developing NICE guidelines: the manual.	

Field (based on PRISMA-P	Content
	Staff from The National Guideline Alliance undertook systematic literature searches, appraised the evidence, conducted meta-analysis and cost-effectiveness analysis where appropriate, and drafted the guideline in collaboration with the committee. For details please see the methods chapter of the full guideline.
Sources of funding/support	The National Guideline Alliance is funded by NICE and hosted by the Royal College of Obstetricians and Gynaecologists
Name of sponsor	The National Guideline Alliance is funded by NICE and hosted by the Royal College of Obstetricians and Gynaecologists
Roles of sponsor	NICE funds The National Guideline Alliance to develop guidelines for those working in the NHS, public health, and social care in England
PROSPERO registration number	Not registered

# Appendix B - Literature search strategies

**Literature search strategies for question 7.1 What factors are important when** 

- 3 planning for the safe transition from the neonatal unit of a baby born preterm,
- 4 requiring respiratory support?
- 5 Date of initial search: 13/02/18
- 6 Database(s): Embase 1980 to 2018 Week 07, Ovid MEDLINE(R) Epub Ahead of Print, In-
- 7 Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R)
- 8 1946 to Present

1946 to	Present
#	Searches
1	exp Infant, Newborn/ use ppez
2	newborn/ use emez
3	prematurity/ use emez
4	(infan* or neonat* or neo-nat* or newborn* or baby or babies).ti,ab,jw,nw.
5	(preterm or pre-term or pre-matur* or pre-matur* or pre?mie* or premie*1).tw.
6	exp low birth weight/ use emez
7	(low adj3 birth adj3 weigh\$).tw.
8	(LBW or VLBW).tw.
9	exp Respiratory Distress Syndrome, Newborn/ use ppez
10	neonatal respiratory distress syndrome/ use emez
11	exp Intensive Care, Neonatal/ use ppez
12	newborn intensive care/ use emez
13	exp Intensive Care Units, Neonatal/ use ppez
14	neonatal intensive care unit/ use emez
15	Neonatal Nursing/ use ppez
16	exp newborn nursing/ use emez
17	newborn care/ use emez
18	(special and care and baby and unit*).tw.
19	(SCBU or NICU).tw.
20	or/1-19
21	*hospital discharge/ use emez
22	*Patient Discharge/ use ppez
23	((discharg* or post?discharg*) adj3 (team* or professional* or personnel or specialist* or nurs* or MDT or key
	worker* or communit*)).tw.
24	((discharg* or post?discharg*) adj3 (plan* or pathway* or pack* or program* or support* or assist* or facilitat* or well?being or co?ordinat* or train* or educat* or visit* or qualification* or competen* or confiden*)).tw.
25	((discharg* or post?discharg*) adj2 (parents or parent or family or families or mother* or maternal or father* or paternal or carer* or caregiver*)).tw.
26	((discharg* or post?discharg*) adj3 (ventilat* or respirat* or breath* or oxygen* or incubat* or "nasal cannula*" or nebuli* or tracheostom*)).tw.
27	((discharg* or post?discharg*) adj3 (environment* or destination* or home or house or housing or electricity or medication* or fund* or equipment or device* or humidifier* or "apn?ea monitor*")).tw.
28	(follow?up adj3 (plan* or pack* or pathway* or program* or support* or co?ordinat* or visit*)).tw.
29	(transition adj3 home).tw.
30	discharge summar*.tw.
31	or/21-30
32	20 and 31
33	limit 32 to english language
34	limit 33 to yr="2000 -Current"
35	Letter/ use ppez
36	letter.pt. or letter/ use emez
37	note.pt.
38	editorial.pt.
39	Editorial/ use ppez
40	News/ use ppez
41	exp Historical Article/ use ppez
42	Anecdotes as Topic/ use ppez
43	Comment/ use ppez
44	Case Report/ use ppez
45	case report/ or case study/ use emez
46	(letter or comment*).ti.
47	or/35-46

#	Searches
48	randomized controlled trial/ use ppez
49	randomized controlled trial/ use emez
50	random*.ti,ab.
51	or/48-50
52	47 not 51
53	animals/ not humans/ use ppez
54	animal/ not human/ use emez
55	nonhuman/ use emez
56	exp Animals, Laboratory/ use ppez
57	exp Animal Experimentation/ use ppez
58	exp Animal Experiment/ use emez
59	exp Experimental Animal/ use emez
60	exp Models, Animal/ use ppez
61	animal model/ use emez
62	exp Rodentia/ use ppez
63	exp Rodent/ use emez
64	(rat or rats or mouse or mice).ti.
65	or/52-64
66	34 not 65
67	remove duplicates from 66

- 1 Date of initial search: 13/02/2018
- 2 Database(s): AMED (Allied and Complementary Medicine) 1985 to February 2018, Maternity
- 3 & Infant Care Database (MIDIRS) 1971 to December 2017, PsycINFO 1806 to February
- 4 Week 1 2018

#	Searches
1	exp infant newborn/ use amed
2	Premature Birth/ use psyh or Neonatal Period/ use psyh or Birth Weight/ use psyh
3	(infan* or neonat* or neo-nat* or newborn* or baby or babies).ti,ab,jw,nw.
4	(preterm or pre-term or prematur* or pre-matur* or pre?mie* or premie*1).tw.
5	(low adj3 birth adj3 weigh\$).tw.
6	(LBW or VLBW).tw.
7	Neonatal Intensive Care/ use psyh
8	Intensive Care Neonatal/ use amed
9	(special and care and baby and unit*).tw.
10	(SCBU or NICU).tw.
11	or/1-10
12	Patient Discharge/ use amed
13	Discharge Planning/ use psyh or exp Facility Discharge/ use psyh
14	((discharg* or post?discharg*) adj3 (team* or professional* or personnel or specialist* or nurs* or MDT or key worker* or communit*)).tw.
15	((discharg* or post?discharg*) adj3 (plan* or pathway* or pack* or program* or support* or assist* or facilitat* or well?being or co?ordinat* or train* or educat* or visit* or qualification* or competen* or confiden*)).tw.
16	((discharg* or post?discharg*) adj2 (parents or parent or family or families or mother* or maternal or father* or paternal or carer* or caregiver*)) tw.
17	((discharg* or post?discharg*) adj3 (ventilat* or respirat* or breath* or oxygen* or incubat* or nasal cannula* or nebuli* or tracheostom*)).tw.
18	((discharg* or post?discharg*) adj3 (environment* or destination* or home or house or housing or electricity or medication* or fund* or equipment or device* or humidifier* or apn?ea monitor*)).tw.
19	(follow?up adj3 (plan* or pack* or pathway* or program* or support* or co?ordinat* or visit*)).tw.
20	(transition adj3 home).tw.
21	discharge summar*.tw.
22	or/12-21
23	11 and 22
24	limit 23 to english language [Limit not valid in MWIC; records were retained]
25	limit 24 to yr="2000 -Current"
26	remove duplicates from 25

5 Date of initial search: 12/02/2018

## 1 Database(s): CINAHL Plus (Cumulative Index to Nursing and Allied Health Literature) 1937-

## 2 current, EBSCO Host

2000-2018, English Language; Exclude MEDLINE records Search modes - Boolean/Phrase Search modes	#	Query	Limiters/Expanders
S21 TX "discharg* summar"  S20 TX transition N3 home  S21 TX (("follow up" or follow-up) N2 (plan* or pack* or pathway* or program* or support* or coordinat* or co-ordinat* or visit*))  S22 TX ((("follow up" or follow-up) N2 (plan* or pack* or pathway* or program* or support* or coordinat* or co-ordinat* or visit*))  S23 TX ((discharg* or "post discharg* or post-discharg*) N3 (environment* or destination* or home or house or housing or electricity or medication* or fund* or equipment or device* or humidifier* or "apnea monitor* or "papoea monitor*"))  S24 TX ((discharg* or "post discharg* or post-discharg*) N3 (ventilat* or respirat* or breath* or oxygen* or incubat* or "nasal cannula*" nebuli* or tracheostom*))  S25 TX ((discharg* or "post discharg*" or post-discharg*) N3 (plan* or pathway* or pack* or program* or support* or assist* or facilitat* or "well being* or well-being or coordinat* or co-ordinat* or train* or educat* or visit* or qualification* or competen* or confiden*))  S24 TX ((discharg* or "post discharg* or post-discharg*) N3 (plan* or pathway* or pack* or program* or support* or assist* or facilitat* or "well being* or well-being or coordinat* or co-ordinat* or train* or educat* or visit* or qualification* or competen* or confiden*))  S24 TX ((discharg* or "post discharg*" or post-discharg*) N3 (team* or professional* or personnel or specialist* or nurs* or MDT or key worker* or communit*))  S25 TX (SCBU or NICU)  S26 S7 OR S8 OR S9 OR S10 OR S11  S27 TX (special and care and baby and unit*)  S28 (MH "Intensive Care Units, Neonatal*)  S28 (MH "Intensive Care, Neonatal*)  S29 (MH "Respiratory Distress Syndrome**)  S20 (AM "Respiratory Distress Syndrome**)  S20 (MH "Respiratory Distress Syndrome**)  S20 (MH "Respiratory Distress Syndrome**)  S20 (MH "Infant, Low Birth Weight)  S20 (AM "Infant, Low Birth Weight)  S20 (AM "Infant, Low Birth Weight)  S21 (MH "Infant, Low Birth Weight)  S22 (MH "Infant, Low Birth Weight*)  S23 (MH "Infant, Low Birth Weight*)	S23	S12 AND S22	Language; Exclude MEDLINE records Search modes -
S20 TX transition N3 home  Solean/Phrase Search modes - Boolean/Phrase Search modes - Boolean/Ph	S22	S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21	
Solean/Phrase So	S21	TX "discharg* summar*"	
coordinat* or co-ordinat* or visit*))  TX ((discharg* or "post discharg*" or post-discharg*) N3 (environment* or destination* or house or	S20	TX transition N3 home	
or home or house or housing or electricity or medication" or fund" or equipment or device" or humidifier" or "apnea monitor"" or "apnea monitor"" or "apnea monitor" or patent or discharg" or post-discharg" or "post discharg" or "post discharg" or "post discharg" or "post discharg" or patent or patent or patent or patent or grach modes - Boolean/Phrase Search modes - S	S19		
breath* or oxygen* or incubat* or "nasal cannula*" nebuli* or tracheostom*))  TX ((discharg* or "post discharg*" or post-discharg*) N3 (parents or parent or family or families or mother* or maternal or father* or paternal or careri or caregiver*))  TX ((discharg* or "post discharg*" or post-discharg*) N3 (plan* or pathway* or pack* or program* or support* or assist* or facilitat* or "well being" or well-being or coordinat* or train* or educat* or visit* or qualification* or competen* or confiden*))  S14  TX ((discharg* or "post discharg*" or post-discharg*) N3 (team* or professional* or personnel or specialist* or nurs* or MDT or key worker* or communit*))  S13  (MH "Patient Discharge+")  S14  TX (SCBU or NICU)  TX (SCBU or NICU)  S26 (MH "Intensive Care Units, Neonatal*)  S27  S18  (MH "Intensive Care, Neonatal+")  S28  S19  S10  S11  S11  S11  S11  S20  S21  S21	S18	or home or house or housing or electricity or medication* or fund* or equipment or device* or humidifier* or "apnea monitor*" or "apnoea monitor*"))	
families or mother* or maternal or father* or paternal or caregiver*))  TX ((discharg* or "post discharg*" or post-discharg*) N3 (plan* or pathway* or pack* or program* or support* or assist* or facilitat* or "well being" or well-being or coordinat* or support* or assist* or facilitat* or "well being" or well-being or coordinat* or boolean/Phrase  TX ((discharg* or "post discharg*" or post-discharg*) N3 (team* or professional* or personnel or specialist* or nurs* or MDT or key worker* or communit*))  Search modes - Boolean/Phrase  S13 (MH "Patient Discharge+")  Search modes - Boolean/Phrase  S14 TX (SCBU or NICU)  Search modes - Boolean/Phrase  S15 TX (special and care and baby and unit*)  Search modes - Boolean/Phrase  S16 (MH "Intensive Care Units, Neonatal")  Search modes - Boolean/Phrase  S17 S1 OR S2 OR S3 OR S4 OR S6  (MH "Intensive Care, Neonatal+")  Search modes - Boolean/Phrase  S26 S1 AND S5  (MH "Respiratory Distress Syndrome+")  Search modes - Boolean/Phrase  S27 TX ((sw birth weight or very low birth weight)  Search modes - Boolean/Phrase  S28 TX ((infan* or neonat* or neo-nat* or newborn* or baby or babies or preterm or pre-term or pre-term or pre-term or pre-term or pre-matur* or pre-matur* or pre-miter* or premiter* o	S17	breath* or oxygen* or incubat* or "nasal cannula*" nebuli* or tracheostom*))	
program* or support* or assist* or facilitat* or "well being" or well-being or coordinat* or condinat* or train* or educat* or visit* or qualification* or competen* or confiden*))  S14 TX ((discharg* or "post discharg*)* N3 (team* or professional* or personnel or specialist* or nurs* or MDT or key worker* or communit*))  S28	S16	families or mother* or maternal or father* or paternal or carer* or caregiver*))	
personnel or specialist* or nurs* or MDT or key worker* or communit*))  (MH "Patient Discharge+")  Search modes - Boolean/Phrase  S12 S7 OR S8 OR S9 OR S10 OR S11  Search modes - Boolean/Phrase  S13 TX (SCBU or NICU)  Search modes - Boolean/Phrase  S14 TX (special and care and baby and unit*)  Search modes - Boolean/Phrase  S15 (MH "Intensive Care Units, Neonatal")  Search modes - Boolean/Phrase  S16 (MH "Intensive Care, Neonatal+")  Search modes - Boolean/Phrase  S17 S1 OR S2 OR S3 OR S4 OR S6  S1 AND S5  Search modes - Boolean/Phrase  S26 (MH "Respiratory Distress Syndrome+")  Search modes - Boolean/Phrase  S27 TX (low birth weight or very low birth weight)  Search modes - Boolean/Phrase  S28 (MH "Infant, Low Birth Weight+")  Search modes - Boolean/Phrase  S29 (MH "Infant, Low Birth Weight+")  Search modes - Boolean/Phrase  S20 TX (infan* or neonat* or neo-nat* or newborn* or baby or babies or preterm or pre-term or pre-term or pre-term or pre-term or pre-matur* or pre-matur* or pre-matur* or pre-mies* or premies or premies* Search modes - Boolean/Phrase  S20 (MH "Infant, Newborn+")  Search modes - Search modes - Boolean/Phrase  S21 (MH "Infant, Newborn+")		program* or support* or assist* or facilitat* or "well being" or well-being or coordinat* or co-ordinat* or train* or educat* or visit* or qualification* or competen* or confiden*))	
S12 S7 OR S8 OR S9 OR S10 OR S11 Search modes - Boolean/Phrase S11 TX (SCBU or NICU) Search modes - Boolean/Phrase S10 TX (special and care and baby and unit*) Search modes - Boolean/Phrase S9 (MH "Intensive Care Units, Neonatal") Search modes - Boolean/Phrase S8 (MH "Intensive Care, Neonatal+") Search modes - Boolean/Phrase S7 S1 OR S2 OR S3 OR S4 OR S6 Search modes - Boolean/Phrase S6 S1 AND S5 Search modes - Boolean/Phrase S7 (MH "Respiratory Distress Syndrome+") Search modes - Boolean/Phrase S6 (MH "Respiratory Distress Syndrome+") Search modes - Boolean/Phrase S1 (MH "Infant, Low Birth Weight+") Search modes - Boolean/Phrase S2 TX (infan* or neonat* or neo-nat* or newborn* or baby or babies or preterm or pre-term or pre-term or pre-matur* or p	S14		Boolean/Phrase
S11 TX (SCBU or NICU)  Search modes - Boolean/Phrase  S10 TX (special and care and baby and unit*)  Search modes - Boolean/Phrase  S9 (MH "Intensive Care Units, Neonatal")  Search modes - Boolean/Phrase  S8 (MH "Intensive Care, Neonatal+")  Search modes - Boolean/Phrase  S7 S1 OR S2 OR S3 OR S4 OR S6  Search modes - Boolean/Phrase  S6 S1 AND S5  Search modes - Boolean/Phrase  S5 (MH "Respiratory Distress Syndrome+")  Search modes - Boolean/Phrase  S4 TX (low birth weight or very low birth weight)  Search modes - Boolean/Phrase  S1 (MH "Infant, Low Birth Weight+")  Search modes - Boolean/Phrase  S2 TX (infan* or neonat* or neo-nat* or newborn* or baby or babies or preterm or pre-term or pre-term or pre-matur* or pre-matur	S13	(MH "Patient Discharge+")	
S10 TX (special and care and baby and unit*)  Search modes - Boolean/Phrase  S9 (MH "Intensive Care Units, Neonatal")  Search modes - Boolean/Phrase  S8 (MH "Intensive Care, Neonatal+")  Search modes - Boolean/Phrase  S7 S1 OR S2 OR S3 OR S4 OR S6  Search modes - Boolean/Phrase  S6 S1 AND S5  Search modes - Boolean/Phrase  S5 (MH "Respiratory Distress Syndrome+")  S6 Search modes - Boolean/Phrase  S6 (MH "Respiratory Distress Syndrome+")  S6 Search modes - Boolean/Phrase  S6 (MH "Infant, Low Birth Weight or very low birth weight)  Search modes - Boolean/Phrase  S7 (MH "Infant, Low Birth Weight+")  S6 Search modes - Boolean/Phrase  S8 (MH "Infant, Newborn+")  S6 Search modes - Boolean/Phrase  S8 (MH "Infant, Newborn+")  S6 Search modes - Boolean/Phrase  S6 Search modes - Boolean/Phrase  S6 (MH "Infant, Newborn+")  S6 Search modes - Boolean/Phrase	S12	S7 OR S8 OR S9 OR S10 OR S11	
Boolean/Phrase  Search modes - Boolean/Phrase  Search modes - Boolean/Phrase  Search modes - Boolean/Phrase  Search modes - Boolean/Phrase  Solean/Phrase	S11	TX (SCBU or NICU)	
Boolean/Phrase  S8 (MH "Intensive Care, Neonatal+")  Search modes - Boolean/Phrase  S7 S1 OR S2 OR S3 OR S4 OR S6  Search modes - Boolean/Phrase  S6 S1 AND S5  Search modes - Boolean/Phrase  S5 (MH "Respiratory Distress Syndrome+")  Search modes - Boolean/Phrase  S4 TX (low birth weight or very low birth weight)  Sarch modes - Boolean/Phrase  S6 (MH "Infant, Low Birth Weight+")  Search modes - Boolean/Phrase  S7 (MH "Infant, Low Birth Weight+")  Search modes - Boolean/Phrase  S8 (MH "Infant, New Birth Weight+")  Search modes - Boolean/Phrase  S9 (MH "Infant, Newborn+")  Search modes - Boolean/Phrase  S9 (MH "Infant, Newborn+")  Search modes - Boolean/Phrase	S10	TX (special and care and baby and unit*)	
Boolean/Phrase  \$7  \$1  OR \$2  OR \$3  OR \$4  OR \$6	S9	(MH "Intensive Care Units, Neonatal")	
Boolean/Phrase  S6 S1 AND S5 Search modes - Boolean/Phrase  S5 (MH "Respiratory Distress Syndrome+") Search modes - Boolean/Phrase  S4 TX (low birth weight or very low birth weight) Search modes - Boolean/Phrase  S3 (MH "Infant, Low Birth Weight+") Search modes - Boolean/Phrase  S4 TX (infan* or neonat* or neo-nat* or newborn* or baby or babies or preterm or pre-term or pre-term or pre-matur* or pre-matur* or preemie or premies)  S6 S1 (MH "Infant, Newborn+") Search modes - Boolean/Phrase  S6 S2 Search modes - Boolean/Phrase  S6 Search modes - Boolean/Phrase  S6 Search modes - Boolean/Phrase  S6 Search modes - Boolean/Phrase	S8	(MH "Intensive Care, Neonatal+")	
Boolean/Phrase  S5 (MH "Respiratory Distress Syndrome+")  Search modes - Boolean/Phrase  S4 TX (low birth weight or very low birth weight)  Search modes - Boolean/Phrase  S3 (MH "Infant, Low Birth Weight+")  Search modes - Boolean/Phrase  S2 TX (infan* or neonat* or neo-nat* or newborn* or baby or babies or preterm or pre-term or pre-term or pre-matur* or pre-matur* or pre?mie* or premie or premies)  S1 (MH "Infant, Newborn+")  Search modes - Boolean/Phrase  Search modes - Boolean/Phrase	S7	S1 OR S2 OR S3 OR S4 OR S6	
S5 (MH "Respiratory Distress Syndrome+")  Search modes - Boolean/Phrase  S4 TX (low birth weight or very low birth weight)  Search modes - Boolean/Phrase  S3 (MH "Infant, Low Birth Weight+")  Search modes - Boolean/Phrase  S2 TX (infan* or neonat* or neo-nat* or newborn* or baby or babies or preterm or pre-term or pre-matur* or pre-matur* or pre?mie* or premies)  S1 (MH "Infant, Newborn+")  Search modes - Boolean/Phrase  Search modes - Boolean/Phrase  Search modes - Boolean/Phrase	S6	S1 AND S5	Search modes -
S4 TX (low birth weight or very low birth weight)  Search modes - Boolean/Phrase  S3 (MH "Infant, Low Birth Weight+")  Search modes - Boolean/Phrase  S2 TX (infan* or neonat* or neo-nat* or newborn* or baby or babies or preterm or pre-term or pre-term or pre-matur* or pre-matur* or pre?mie* or premie or premies)  S1 (MH "Infant, Newborn+")  Search modes - Boolean/Phrase	S5	(MH "Respiratory Distress Syndrome+")	Search modes -
S3 (MH "Infant, Low Birth Weight+")  Search modes - Boolean/Phrase  S2 TX (infan* or neonat* or neo-nat* or newborn* or baby or babies or preterm or pre-term or prematur* or pre-matur* or pre?mie* or premie or premies)  S1 (MH "Infant, Newborn+")  Search modes - Boolean/Phrase Search modes -	S4	TX (low birth weight or very low birth weight)	Search modes -
S2 TX (infan* or neonat* or neo-nat* or newborn* or baby or babies or preterm or pre-term or pre-term or pre-matur* or pre-matur* or pre?mie* or premie or premies)  S2 Search modes - Boolean/Phrase S3 (MH "Infant, Newborn+")	S3	(MH "Infant, Low Birth Weight+")	Search modes -
S1 (MH "Infant, Newborn+") Search modes -	S2		Search modes -
Roolean/Phrase	S1		

#### 3 Date of initial search: 12/02/2018

#### 4 Databases(s): The Cochrane Library, issue 2 of 12, February 2018

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ID	Search	
#1	MeSH descriptor: [Infant, Newborn] explode all trees	
#2	(infan* or neonat* or neo-nat* or newborn* or baby or babies)	
#3	(preterm or pre-term or prematur* or pre-matur* or preemie* or premie* or premie*)	
#4	(low near birth near/3 weigh*)	
#5	MeSH descriptor: [Intensive Care, Neonatal] this term only	
#6	MeSH descriptor: [Intensive Care Units, Neonatal] this term only	
#7	(special and care and baby and unit*)	
#9	(SCBU or NICU)	
#10	{or #1-#9}	

ID	Search
#11	MeSH descriptor: [Patient Discharge] this term only
#12	((discharg* or "post discharg*" or post-discharg*) near/3 (team* or professional* or personnel or specialist* or nurs* or MDT or key worker* or communit*))
#13	((discharg* or "post discharg*" or post-discharg*) near/3 (plan* or pathway* or pack* or program* or support* or assist* or facilitat* or "well being" or well-being or coordinat* or co-ordinat* or train* or educat* or visit* or qualification* or competen* or confiden*))
#14	((discharg* or "post discharg*" or post-discharg*) near/3 (parents or parent or family or families or mother* or maternal or father* or paternal or carer* or caregiver*))
#15	((discharg* or "post discharg*" or post-discharg*) near/3 (ventilat* or respirat* or breath* or oxygen* or incubat* or "nasal cannula*" or nebuli* or tracheostomy*))
#16	((discharg* or "post discharg*" or post-discharg*) near/3 (environment* or destination* or home or house or housing or electricity or medication* or fund* or equipment or device* or humidifier* or "apnea monitor*" or "apnea monitor*"))
#17	(("follow up" or follow-up) near/2 (plan* or pack* or pathway* or program* or support* or coordinat* or visit*))
#18	transition near/3 home
#19	"discharg* summar*"
#20	{or #11-#19}
#21	#10 and #20 Publication Year from 2000 to 2018

#### 1 Health economics

- 2 Date of initial search: 12/02/18
- 3 Database(s): Embase 1980 to 2018 Week 07, Ovid MEDLINE(R) Epub Ahead of Print, In-4 Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R)
- 5 1946 to Present

#	Searches
1	exp Infant, Newborn/ use ppez
2	newborn/ use emez
3	prematurity/ use emez
4	(infan* or neonat* or neo-nat* or newborn* or baby or babies).ti,ab,jw,nw.
5	(preterm or pre-term or prematur* or pre-matur* or pre?mie* or premie*1).tw.
6	exp low birth weight/ use emez
7	(low adj3 birth adj3 weigh\$).tw.
8	(LBW or VLBW).tw.
9	exp Respiratory Distress Syndrome, Newborn/ use ppez
10	neonatal respiratory distress syndrome/ use emez
11	exp Intensive Care, Neonatal/ use ppez
12	newborn intensive care/ use emez
13	exp Intensive Care Units, Neonatal/ use ppez
14	neonatal intensive care unit/ use emez
15	Neonatal Nursing/ use ppez
16	exp newborn nursing/ use emez
17	newborn care/ use emez
18	(special and care and baby and unit*).tw.
19	(SCBU or NICU).tw.
20	or/1-19
21	*hospital discharge/ use emez
22	*Patient Discharge/ use ppez
23	((discharg* or post?discharg*) adj3 (team* or professional* or personnel or specialist* or nurs* or MDT or key worker* or communit*)).tw.
24	((discharg* or post?discharg*) adj3 (plan* or pathway* or pack* or program* or support* or assist* or facilitat* or well?being or co?ordinat* or train* or educat* or visit* or qualification* or competen* or confiden*)).tw.
25	((discharg* or post?discharg*) adj2 (parents or parent or family or families or mother* or maternal or father* or paternal or carer* or caregiver*)) tw.
26	((discharg* or post?discharg*) adj3 (ventilat* or respirat* or breath* or oxygen* or incubat* or "nasal cannula*" or nebuli* or tracheostom*)).tw.
27	((discharg* or post?discharg*) adj3 (environment* or destination* or home or house or housing or electricity or medication* or fund* or equipment or device* or humidifier* or "apn?ea monitor*")).tw.
28	(follow?up adj3 (plan* or pack* or pathway* or program* or support* or co?ordinat* or visit*)).tw.
29	(transition adj3 home).tw.
30	discharge summar*.tw.
31	or/21-30
32	20 and 31
33	limit 32 to english language

#	Searches
34	limit 33 to yr="2000 -Current"
35	Letter/ use ppez
36	letter.pt. or letter/ use emez
37	note.pt.
38	editorial.pt.
39	Editorial/ use ppez
40	News/ use ppez
41	exp Historical Article/ use ppez
42	Anecdotes as Topic/ use ppez
43	Comment/ use ppez
44	Case Report/ use ppez
45	case report/ or case study/ use emez
46	(letter or comment*).ti.
47	or/35-46
48	randomized controlled trial/ use ppez
49	randomized controlled trial/ use emez
50	random*.ti,ab.
51	or/48-50
52	47 not 51
53	animals/ not humans/ use ppez
54	animal/ not human/ use emez
55	nonhuman/ use emez
56	exp Animals, Laboratory/ use ppez
57	exp Animal Experimentation/ use ppez
58	exp Animal Experiment/ use emez
59	exp Experimental Animal/ use emez
60	exp Models, Animal/ use ppez
61	animal model/ use emez
62	exp Rodentia/ use ppez
63	exp Rodent/ use emez
64	(rat or rats or mouse or mice).ti.
65	or/52-64
66	34 not 65
67	remove duplicates from 66
68	Economics/
69	Value of life/
70	exp "Costs and Cost Analysis"/
71	exp Economics, Hospital/
72	exp Economics, Medical/
73	Economics, Nursing/
74	Economics, Pharmaceutical/
75	exp "Fees and Charges"/
76	exp Budgets/
77	or/68-76 use ppez
78	health economics/
79	exp economic evaluation/
80	exp health care cost/
81	exp fee/
82	budget/
83	funding/
84	or/78-83 use emez
85	budget*.ti,ab.
86	cost*.ti.
87	(economic* or pharmaco?economic*).ti.
88	(price* or pricing*).ti,ab.
89	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
90	(financ* or fee or fees).ti,ab.
91	(value adj2 (money or monetary)).ti,ab.
92	or/85-90
93	77 or 84 or 92
94	67 and 93

1 Date of search: 07/0318

- 1 Database(s): Embase 1980 to 2018 Week 10, Ovid MEDLINE(R) Epub Ahead of Print, In-
- 2 Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R)
- 3 1946 to Present

#	Searches	
1	exp Infant, Newborn/ use ppez	
2	newborn/ use emez	
3	prematurity/ use emez	
4	(infan* or neonat* or neo-nat* or newborn* or baby or babies).ti,ab,jw,nw.	
5	(preterm or pre-term or prematur* or pre-matur* or pre?mie* or premie*1).tw.	
6	exp low birth weight/ use emez	
7	(low adj3 birth adj3 weigh\$).tw.	
8	(LBW or VLBW).tw.	
9	exp Respiratory Distress Syndrome, Newborn/ use ppez	
10	neonatal respiratory distress syndrome/ use emez	
11	exp Intensive Care, Neonatal/ use ppez	
12	newborn intensive care/ use emez	
13	exp Intensive Care Units, Neonatal/ use ppez	
14	neonatal intensive care unit/ use emez	
15	Neonatal Nursing/ use ppez	
	•	
16	exp newborn nursing/ use emez	
17	(special and care and baby and unit*).tw.	
18	(SCBU or NICU).tw.	
19	or/1-18	
20	exp relative/ use emez	
21	caregiver/ use emez	
22	exp Family/ use ppez	
23	Caregivers/ use ppez	
24	or/20-23	
25	*hospital discharge/ use emez	
26	transitional care/ use emez	
27	clinical handover/ use emez	
28	patient care planning/ use emez	
29	*Continuity of Patient Care/ use ppez	
30	Patient Discharge/ use ppez or Patient Handoff/ use ppez or Patient Transfer/ use ppez or Transitional Care/ use ppez	
31	*Patient Care Planning/ use ppez	
32	or/25-31	
33	24 and 32	
34	((discharg* or transition* or transfer* or handoff or handover or "hand over") adj5 (parents or parent or parental or family or families or mother* or maternal or father* or paternal or sibling* or brother* or sister* or grandparent* or grandmother* or grandfather* or carer* or caregiver*)).tw.	
35	((paediatric or pediatric) adj passport*).tw.	
36	or/33-35	
37	19 and 36	
38	Letter/ use ppez	
39	letter.pt. or letter/ use emez	
40	note.pt.	
41	editorial.pt.	
42	Editorial/ use ppez	
43	News/ use ppez	
44	exp Historical Article/ use ppez	
45	Anecdotes as Topic/ use ppez	
46	Comment/ use ppez	
47	Case Report/ use ppez	
48	case report/ or case study/ use emez	
49	(letter or comment*).ti.	
50	or/38-49	
51	randomized controlled trial/ use ppez	
52	randomized controlled trial/ use emez	
53	random*.ti,ab.	
54	or/51-53	
55	50 not 54	
56	animals/ not humans/ use ppez	
57	animals/ not human/ use emez	
58	nonhuman/ use emez	
59	exp Animals, Laboratory/ use ppez	
60	exp Animals, Laboratory, use ppez exp Animal Experimentation/ use ppez	
00	CAP ATTITUDE TEATURE TO A SECOND TO A SECO	

#	Searches
61	exp Animal Experiment/ use emez
62	exp Experimental Animal/ use emez
63	exp Models, Animal/ use ppez
64	animal model/ use emez
65	exp Rodentia/ use ppez
66	exp Rodent/ use emez
67	(rat or rats or mouse or mice).ti.
68	or/55-67
69	37 not 68
70	limit 69 to english language
71	limit 70 to yr="2000 -Current"
72	remove duplicates from 71

- 1 Date of search: 07/03/2018
- 2 Database(s): AMED (Allied and Complementary Medicine) 1985 to March 2018, Maternity &
- 3 Infant Care Database (MIDIRS) 1971 to December 2017, PsycINFO 1806 to February Week
- 4 4 2018

+ 2010	,
#	Searches
1	exp infant newborn/ use amed
2	Premature Birth/ use psyh or Neonatal Period/ use psyh or Birth Weight/ use psyh
3	(infan* or neonat* or neo-nat* or newborn* or baby or babies) ti,ab,jw,nw.
4	(preterm or pre-term or prematur* or pre-matur* or pre?mie* or premie*1).tw.
5	(low adj3 birth adj3 weigh\$).tw.
6	(LBW or VLBW).tw.
7	Neonatal Intensive Care/ use psyh
8	Intensive Care Neonatal/ use amed
9	(special and care and baby and unit*).tw.
10	(SCBU or NICU).tw.
11	or/1-10
12	exp family/ use amed
13	exp Family Members/ use psyh
14	Caregivers/ use psyh
15	or/12-14
16	patient discharge/ use amed
17	continuity of patient care/ use amed
18	patient care planning/ use amed
19	Discharge Planning/ use psyh or exp Facility Discharge/ use psyh
20	Continuum of Care/ use psyh
21	Treatment Planning/ use psyh
22	or/16-21
23	15 and 22
24	((discharg* or transition* or transfer* or handoff or handover or "hand over") adj5 (parents or parent or parental or family or families or mother* or maternal or father* or paternal or sibling* or brother* or sister* or grandparent* or grandmother* or grandfather* or caregrer*)).tw.
25	((paediatric or pediatric) adj passport*).tw.
26	or/23-25
27	11 and 26
28	limit 27 to english language
29	limit 28 to yr="2000 -Current"
30	remove duplicates from 29

- 5 Date of search: 07/03/2018
- 6 Database(s): CINAHL Plus (Cumulative Index to Nursing and Allied Health Literature) 1937-
- 7 current, EBSCO Host

#	Query	Limiters/Expanders
S25	S12 AND S24	Limiters - Publication Year: 2000-2018; English Language; Exclude MEDLINE records Search modes - Boolean/Phrase
S24	S20 OR S23	Search modes - Boolean/Phrase
S23	S21 OR S22	Search modes - Boolean/Phrase
S22	TX (paediatric passport* or pediatric passport*)	Search modes - Boolean/Phrase

#	Query	Limiters/Expanders
S21	TX ((discharg* or transition* or transfer* or handoff or handover or "hand over") N5 (parents or parent or parental or family or families or mother* or maternal or father* or paternal or sibling* or brother* or sister* or grandparent* or grandmother* or grandfather* or career* or caregiver*))	Search modes - Boolean/Phrase
S20	S15 AND S19	Search modes - Boolean/Phrase
S19	S16 OR S17 OR S18	Search modes - Boolean/Phrase
S18	(MH "Continuity of Patient Care+")	Search modes - Boolean/Phrase
S17	(MH "Transitional Care")	Search modes - Boolean/Phrase
S16	(MH "Patient Discharge+")	Search modes - Boolean/Phrase
S15	S13 OR S14	Search modes - Boolean/Phrase
S14	(MH "Caregivers")	Search modes - Boolean/Phrase
S13	(MH "Family+")	Search modes - Boolean/Phrase
S12	S7 OR S8 OR S9 OR S10 OR S11	Search modes - Boolean/Phrase
S11	TX (SCBU or NICU)	Search modes - Boolean/Phrase
S10	TX (special and care and baby and unit*)	Search modes - Boolean/Phrase
S9	(MH "Intensive Care Units, Neonatal")	Search modes - Boolean/Phrase
S8	(MH "Intensive Care, Neonatal+")	Search modes - Boolean/Phrase
S7	S1 OR S2 OR S3 OR S4 OR S6	Search modes - Boolean/Phrase
S6	S1 AND S5	Search modes - Boolean/Phrase
S5	(MH "Respiratory Distress Syndrome+")	Search modes - Boolean/Phrase
S4	TX (low birth weight or very low birth weight)	Search modes - Boolean/Phrase
S3	(MH "Infant, Low Birth Weight+")	Search modes - Boolean/Phrase
S2	TX (infan* or neonat* or neo-nat* or newborn* or baby or babies or preterm or pre-term or prematur* or pre-matur* or pre?mie* or premie or premies)	Search modes - Boolean/Phrase
S1	(MH "Infant, Newborn+")	Search modes - Boolean/Phrase

#### 1 Date of search: 07/03/2018

## 2 Databases(s): The Cochrane Library, issue 3 of 12, March 2018

ID	Search
#1	MeSH descriptor: [Infant, Newborn] explode all trees
#2	(infan* or neonat* or neo-nat* or newborn* or baby or babies)
#3	(preterm or pre-term or prematur* or pre-matur* or preemie* or premie* or premie*)
#4	(low next birth near/3 weigh*)
#5	MeSH descriptor: [Intensive Care, Neonatal] this term only
#6	MeSH descriptor: [Intensive Care Units, Neonatal] this term only
#7	(special and care and baby and unit*)
#8	((newborn or neonatal or neo-natal) near/2 (ICU or ICUs or unit*))
#9	(SCBU or NICU)
#10	{or #1-#9}
#11	MeSH descriptor: [Family] explode all trees
#12	MeSH descriptor: [Caregivers] this term only
#13	{or #11-#12}
#14	MeSH descriptor: [Continuity of Patient Care] explode all trees
#15	MeSH descriptor: [Patient Care Planning] this term only
#16	{or #14-#15}
#17	#13 and #16
#18	((discharg* or transition* or transfer* or handoff or handover or "hand over") near/5 (parents or parent or parental or family or families or mother* or maternal or father* or paternal or sibling* or brother* or sister* or grandparent* or grandmother* or grandfather* or carer* or caregiver*))
#19	("paediatric passport*" or "pediatric passport*")
#20	{or #17-#19}
#21	#10 and #20 Publication Year from 2000 to 2018

#### 3 Health economics

- 4 Date of search: 08/03/18
- 5 Database(s): Embase 1980 to 2018 Week 10, Ovid MEDLINE(R) Epub Ahead of Print, In-
- 6 Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R)
- 7 1946 to Present

• . •		
#	Searches	
1	exp Infant, Newborn/ use ppez	
2	newborn/ use emez	
3	prematurity/ use emez	

#	Searches
4	(infan* or neonat* or neo-nat* or newborn* or baby or babies).ti,ab,jw,nw.
5	(preterm or pre-term or pre-matur* or pre-matur* or pre?mie* or premie*1).tw.
6 7	exp low birth weight/ use emez (low adj3 birth adj3 weigh\$).tw.
8	(LBW or VLBW).tw.
9	exp Respiratory Distress Syndrome, Newborn/ use ppez
10	neonatal respiratory distress syndrome/ use emez
11	exp Intensive Care, Neonatal/ use ppez
12	newborn intensive care/ use emez
13	exp Intensive Care Units, Neonatal/ use ppez
14	neonatal intensive care unit/ use emez
15	Neonatal Nursing/ use ppez
16	exp newborn nursing/ use emez
17	(special and care and baby and unit*).tw.
18	(SCBU or NICU).tw.
19	or/1-18
20	exp relative/ use emez
21	caregiver/ use emez
22 23	exp Family/ use ppez
23	Caregivers/ use ppez or/20-23
25	*hospital discharge/ use emez
26	transitional care/ use emez
27	clinical handover/ use emez
28	patient care planning/ use emez
29	*Continuity of Patient Care/ use ppez
30	Patient Discharge/ use ppez or Patient Handoff/ use ppez or Patient Transfer/ use ppez or Transitional Care/ use ppez
31	*Patient Care Planning/ use ppez
32	or/25-31
33	24 and 32
34	((discharg* or transition* or transfer* or handoff or handover or "hand over") adj5 (parents or parent or parental or family or families or mother* or maternal or father* or paternal or sibling* or brother* or sister* or grandparent* or grandmother* or grandfather* or caregiver*)).tw.
35	((paediatric or pediatric) adj passport*).tw.
36	or/33-35
37	19 and 36
38	Economics/
39	Value of life/
40	exp "Costs and Cost Analysis"/
41 42	exp Economics, Hospital/ exp Economics, Medical/
43	Economics, Nursing/
44	Economics, Natistry  Economics. Pharmaceutical/
45	exp "Fees and Charges"/
46	exp Budgets/
47	(or/38-46) use ppez
48	health economics/
49	exp economic evaluation/
50	exp health care cost/
51	exp fee/
52	budget/
53	funding/
54 55	(or/48-53) use emez
55 56	budget*.ti,ab. cost*.ti.
57	(economic* or pharmaco?economic*).ti.
58	(price* or pricing*).ti,ab.
59	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
60	(financ* or fee or fees).ti,ab.
61	(value adj2 (money or monetary)).ti,ab.
62	or/55-60
63	47 or 54 or 62
64	37 and 63
65	limit 64 to english language
66	limit 65 to yr="2000 -Current"
67	remove duplicates from 66

## Literature search strategies for question 7.2 What are the support and information

- 2 needs of parents and carers of preterm babies who are transitioning from the
- 3 neonatal unit while receiving ongoing respiratory support?
- 4 Date of search: 07/03/2018
- 5 Database(s): Embase 1980 to 2018 Week 10, Ovid MEDLINE(R) Epub Ahead of Print, In-
- 6 Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R)
- 7 1946 to Present

1946 t	o Present
#	Searches
1	exp Infant, Newborn/ use ppez
2	newborn/ use emez
3	prematurity/ use emez
4	(infan* or neonat* or neo-nat* or newborn* or baby or babies).ti,ab,jw,nw.
5	(preterm or pre-term or pre-matur* or pre-matur* or pre?mie* or premie*1).tw.
6	exp low birth weight/ use emez
7	
	(low adj3 birth adj3 weigh\$).tw.
8	(LBW or VLBW).tw.
9	exp Respiratory Distress Syndrome, Newborn/ use ppez
10	neonatal respiratory distress syndrome/ use emez
11	exp Intensive Care, Neonatal/ use ppez
12	newborn intensive care/ use emez
13	exp Intensive Care Units, Neonatal/ use ppez
14	neonatal intensive care unit/ use emez
15	Neonatal Nursing/ use ppez
16	exp newborn nursing/ use emez
17	(special and care and baby and unit*).tw.
18	(SCBU or NICU).tw.
19	or/1-18
20	exp relative/ use emez
21	caregiver/ use emez
22	exp Family/ use ppez
23	Caregivers/ use ppez
24	or/20-23
25	*hospital discharge/ use emez
26	transitional care/ use emez
27	clinical handover/ use emez
28	patient care planning/ use emez
29	*Continuity of Patient Care/ use ppez
30	Patient Discharge/ use ppez or Patient Handoff/ use ppez or Patient Transfer/ use ppez or Transitional Care/ use
	ppez
31	*Patient Care Planning/ use ppez
32	or/25-31
33	24 and 32
34	((discharg* or transition* or transfer* or handoff or handover or "hand over") adj5 (parents or parent or parental or
	fàmily or families or mother* or maternal or father* or paternal or sibling* or brother* or sister* or grandparent* or
	grandmother* or grandfather* or carer* or caregiver*)).tw.
35	((paediatric or pediatric) adj passport*).tw.
36	or/33-35
37	19 and 36
38	Letter/ use ppez
39	letter.pt. or letter/ use emez
40	note.pt.
41	editorial.pt.
42	Editorial/ use ppez
43	News/ use ppez
44	exp Historical Article/ use ppez
45	Anecdotes as Topic/ use ppez
46	Comment/ use ppez
47	Case Report/ use ppez
48	case report/ or case study/ use emez
49	(letter or comment*).ti.
50	or/38-49
51	randomized controlled trial/ use ppez
52	randomized controlled trial/ use emez
53	random*.ti.ab.

#	Searches
54	or/51-53
55	50 not 54
56	animals/ not humans/ use ppez
57	animal/ not human/ use emez
58	nonhuman/ use emez
59	exp Animals, Laboratory/ use ppez
60	exp Animal Experimentation/ use ppez
61	exp Animal Experiment/ use emez
62	exp Experimental Animal/ use emez
63	exp Models, Animal/ use ppez
64	animal model/ use emez
65	exp Rodentia/ use ppez
66	exp Rodent/ use emez
67	(rat or rats or mouse or mice).ti.
68	or/55-67
69	37 not 68
70	limit 69 to english language
71	limit 70 to yr="2000 -Current"
72	remove duplicates from 71

- 1 Date of search: 07/03/2018
- Database(s): AMED (Allied and Complementary Medicine) 1985 to March 2018, Maternity &
   Infant Care Database (MIDIRS) 1971 to December 2017, PsycINFO 1806 to February Week
- 4 4 2018

#	Searches
1	exp infant newborn/ use amed
2	Premature Birth/ use psyh or Neonatal Period/ use psyh or Birth Weight/ use psyh
3	(infan* or neonat* or neo-nat* or newborn* or baby or babies).ti,ab,jw,nw.
4	(preterm or pre-term or prematur* or pre-matur* or pre?mie* or premie*1).tw.
5	(low adj3 birth adj3 weigh\$).tw.
6	(LBW or VLBW).tw.
7	Neonatal Intensive Care/ use psyh
8	Intensive Care Neonatal/ use amed
9	(special and care and baby and unit*).tw.
10	(SCBU or NICU) tw.
11	or/1-10
12	exp family/ use amed
13	exp Family Members/ use psyh
14	Caregivers/ use psyh
15	or/12-14
16	patient discharge/ use amed
17	continuity of patient care/ use amed
18	patient care planning/ use amed
19	Discharge Planning/ use psyh or exp Facility Discharge/ use psyh
20	Continuum of Care/ use psyh
21	Treatment Planning/ use psyh
22	or/16-21
23	15 and 22
24	((discharg* or transition* or transfer* or handoff or handover or "hand over") adj5 (parents or parent or parental or family or families or mother* or maternal or father* or paternal or sibling* or brother* or sister* or grandparent* or grandmother* or grandfather* or carer* or caregiver*)).tw.
25	((paediatric or pediatric) adj passport*).tw.
26	or/23-25
27	11 and 26
28	limit 27 to english language
29	limit 28 to yr="2000 -Current"
30	remove duplicates from 29

5 Date of search: 07/03/2018

## 1 Database(s): CINAHL Plus (Cumulative Index to Nursing and Allied Health Literature) 1937-

## 2 current, EBSCO Host

English Language; Exclude MEDLINE records Search modes - Boolean/Phrase Search modes - Boolean/P	#	Query	Limiters/Expanders		
S21 S21 OR S22  TX (paediatric passport* or pediatric passport*)  S22 TX (paediatric passport* or pediatric passport*)  S23 TX ((discharg* or transition* or transfer* or handoff or handover or "handover")  S24 TX ((discharg* or transition* or transfer* or handoff or handover or "handover")  S25 TX ((discharg* or transition* or transfer* or handoff or handover or "handover")  S26 S15 AND S19  S27 S15 AND S19  S28 S15 AND S19  S29 S16 OR S17 OR S18  S29 S16 OR S17 OR S18  S29 S16 OR S17 OR S18  S20 S15 AND S19  S20 S15 AND S19  S210 S15 AND S19  S211 S10 OR S14  S212 S215 S215 S215 S215 S215 S215 S215	S25	S12 AND S24			
S22 TX (paediatric passport* or pediatric passport*)  S21 TX ((discharg* or transition* or transfer* or handoff or handover or "hand over") N5 (parents or parent or parental or family or families or mother* or maternal or father* or paternal or sibling* or brother* or sister* or grandparent* or grandmother* or grandfather* or carer* or caregiver*))  S20 S15 AND S19  S21 S16 OR S17 OR S18  S22 S16 (MH "Continuity of Patient Care+")  S23 S16 (MH "Transitional Care")  S24 S17 (MH "Transitional Care")  S25 S18 (MH "Patient Discharge+")  S26 S27 S28	S24	S20 OR S23	Search modes - Boolean/Phrase		
TX ((discharg* or transition* or transfer* or handoff or handover or "hand over") N5 (parents or parent or parental or family or families or mother* or maternal or father* or paternal or sibling* or brother* or sister* or grandparent* or grandmother* or grandfather* or carer* or caregiver*))  S20 S15 AND S19  S16 OR S17 OR S18  Search modes - Boolean/Phrase S18 (MH "Continuity of Patient Care+")  Search modes - Boolean/Phrase S17 (MH "Transitional Care")  Search modes - Boolean/Phrase S18 (MH "Patient Discharge+")  Search modes - Boolean/Phrase S19 S13 OR S14  Search modes - Boolean/Phrase S10 (MH "Caregivers")  Search modes - Boolean/Phrase S11 (MH "Caregivers")  Search modes - Boolean/Phrase S12 S7 OR S8 OR S9 OR S10 OR S11  Search modes - Boolean/Phrase S13 (MH "Family+")  Search modes - Boolean/Phrase S14 (SCBU or NICU)  Search modes - Boolean/Phrase S15 (MH "Intensive Care units, Neonatal")  Search modes - Boolean/Phrase S18 (MH "Intensive Care, Neonatal+")  Search modes - Boolean/Phrase S19 (MH "Intensive Care, Neonatal+")  Search modes - Boolean/Phrase S10 OR S2 OR S3 OR S4 OR S6  Search modes - Boolean/Phrase S11 OR S2 OR S3 OR S4 OR S6  Search modes - Boolean/Phrase S20 (MH "Respiratory Distress Syndrome+")  Search modes - Boolean/Phrase S20 (MH "Respiratory Distress Syndrome+")	S23	S21 OR S22	Search modes - Boolean/Phrase		
over") N5 (parents or parent or parental or family or families or mother* or maternal or father* or paternal or sibling* or brother* or sister* or grandparent* or grandmother* or grandfather* or caregiver*))  S20 S15 AND S19 Search modes - Boolean/Phrase S18 Search modes - Boolean/Phrase S18 (MH "Continuity of Patient Care+") Search modes - Boolean/Phrase S17 (MH "Transitional Care") Search modes - Boolean/Phrase S16 (MH "Patient Discharge+") Search modes - Boolean/Phrase S15 S13 OR S14 Search modes - Boolean/Phrase S15 S13 OR S14 Search modes - Boolean/Phrase S16 (MH "Family+") Search modes - Boolean/Phrase S17 (MH "Family+") Search modes - Boolean/Phrase S18 (MH "Family+") Search modes - Boolean/Phrase S19 TX (SCBU or NICU) Search modes - Boolean/Phrase S10 TX (special and care and baby and unit*) Search modes - Boolean/Phrase S10 TX (special and care and baby and unit*) Search modes - Boolean/Phrase S10 CAR S2 OR S3 OR S4 OR S6 Search modes - Boolean/Phrase S10 CAR S2 OR S3 OR S4 OR S6 Search modes - Boolean/Phrase S10 CAR S2 OR S3 OR S4 OR S6 Search modes - Boolean/Phrase S6 S1 AND S5 Search modes - Boolean/Phrase S6 S1 AND S5 Search modes - Boolean/Phrase S6 S1 AND S5 Search modes - Boolean/Phrase S6 S6 MH "Respiratory Distress Syndrome+") Search modes - Boolean/Phrase S6 S6 MH "Respiratory Distress Syndrome+")	S22	TX (paediatric passport* or pediatric passport*)	Search modes - Boolean/Phrase		
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S18 (MH "Continuity of Patient Care+")  S17 (MH "Transitional Care")  S18 (MH "Patient Discharge+")  S19 (MH "Patient Discharge+")  S20 Search modes - Boolean/Phrase  S10 S13 OR S14  S20 Search modes - Boolean/Phrase  S11 (MH "Caregivers")  S20 Search modes - Boolean/Phrase  S21 (MH "Family+")  S22 S7 OR S8 OR S9 OR S10 OR S11  S22 S7 OR S8 OR S9 OR S10 OR S11  S23 Search modes - Boolean/Phrase  S23 Search modes - Boolean/Phrase  S24 Search modes - Boolean/Phrase  S25 Search modes - Boolean/Phrase  S26 (MH "Intensive Care Units, Neonatal")  S26 S2 OR S3 OR S4 OR S6  S27 S1 OR S2 OR S3 OR S4 OR S6  S28 Search modes - Boolean/Phrase  S28 (MH "Intensive Care, Neonatal+")  S28 Search modes - Boolean/Phrase  S38 Search modes - Boolean/Phrase  S49 S1 AND S5  S40 Search modes - Boolean/Phrase  S50 Search modes - Boolean/Phrase  S51 (MH "Respiratory Distress Syndrome+")	S20	S15 AND S19	Search modes - Boolean/Phrase		
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S16 (MH "Patient Discharge+") S17 S13 OR S14 Search modes - Boolean/Phrase S18 S13 OR S14 Search modes - Boolean/Phrase S19 (MH "Caregivers") Search modes - Boolean/Phrase S10 (MH "Family+") Search modes - Boolean/Phrase S11 TX (SCBU or NICU) Search modes - Boolean/Phrase S12 TX (special and care and baby and unit*) Search modes - Boolean/Phrase S13 (MH "Intensive Care Units, Neonatal") Search modes - Boolean/Phrase S10 (MH "Intensive Care, Neonatal+") Search modes - Boolean/Phrase S11 Search modes - Boolean/Phrase S12 S1 OR S2 OR S3 OR S4 OR S6 S13 AND S5 SEARCH modes - Boolean/Phrase S14 Search modes - Boolean/Phrase S15 (MH "Respiratory Distress Syndrome+") Search modes - Boolean/Phrase S15 (MH "Respiratory Distress Syndrome+")	S18	(MH "Continuity of Patient Care+")	Search modes - Boolean/Phrase		
S15 S13 OR S14 Search modes - Boolean/Phrase S14 (MH "Caregivers") Search modes - Boolean/Phrase S13 (MH "Family+") Search modes - Boolean/Phrase S12 S7 OR S8 OR S9 OR S10 OR S11 Search modes - Boolean/Phrase S11 TX (SCBU or NICU) Search modes - Boolean/Phrase S10 TX (special and care and baby and unit*) Search modes - Boolean/Phrase S9 (MH "Intensive Care Units, Neonatal") Search modes - Boolean/Phrase S8 (MH "Intensive Care, Neonatal+") Search modes - Boolean/Phrase S7 S1 OR S2 OR S3 OR S4 OR S6 Search modes - Boolean/Phrase S6 S1 AND S5 Search modes - Boolean/Phrase S6 (MH "Respiratory Distress Syndrome+") Search modes - Boolean/Phrase	S17	(MH "Transitional Care")	Search modes - Boolean/Phrase		
S14 (MH "Caregivers") Search modes - Boolean/Phrase S13 (MH "Family+") Search modes - Boolean/Phrase S12 S7 OR S8 OR S9 OR S10 OR S11 Search modes - Boolean/Phrase S11 TX (SCBU or NICU) Search modes - Boolean/Phrase S10 TX (special and care and baby and unit*) Search modes - Boolean/Phrase S9 (MH "Intensive Care Units, Neonatal") Search modes - Boolean/Phrase S8 (MH "Intensive Care, Neonatal+") Search modes - Boolean/Phrase S7 S1 OR S2 OR S3 OR S4 OR S6 Search modes - Boolean/Phrase S6 S1 AND S5 Search modes - Boolean/Phrase S6 (MH "Respiratory Distress Syndrome+") Search modes - Boolean/Phrase	S16	(MH "Patient Discharge+")	Search modes - Boolean/Phrase		
S13 (MH "Family+")  Search modes - Boolean/Phrase  S12 S7 OR S8 OR S9 OR S10 OR S11  Search modes - Boolean/Phrase  S11 TX (SCBU or NICU)  Search modes - Boolean/Phrase  S10 TX (special and care and baby and unit*)  Search modes - Boolean/Phrase  S9 (MH "Intensive Care Units, Neonatal")  Search modes - Boolean/Phrase  S8 (MH "Intensive Care, Neonatal+")  Search modes - Boolean/Phrase  S7 S1 OR S2 OR S3 OR S4 OR S6  Search modes - Boolean/Phrase  S6 S1 AND S5  Search modes - Boolean/Phrase  S6 (MH "Respiratory Distress Syndrome+")  Search modes - Boolean/Phrase	S15	S13 OR S14	Search modes - Boolean/Phrase		
S12 S7 OR S8 OR S9 OR S10 OR S11 Search modes - Boolean/Phrase S11 TX (SCBU or NICU) Search modes - Boolean/Phrase S10 TX (special and care and baby and unit*) Search modes - Boolean/Phrase S9 (MH "Intensive Care Units, Neonatal") Search modes - Boolean/Phrase S8 (MH "Intensive Care, Neonatal+") Search modes - Boolean/Phrase S7 S1 OR S2 OR S3 OR S4 OR S6 Search modes - Boolean/Phrase S6 S1 AND S5 Search modes - Boolean/Phrase S6 (MH "Respiratory Distress Syndrome+") Search modes - Boolean/Phrase	S14	(MH "Caregivers")	Search modes - Boolean/Phrase		
S11 TX (SCBU or NICU) Search modes - Boolean/Phrase S10 TX (special and care and baby and unit*) Search modes - Boolean/Phrase S9 (MH "Intensive Care Units, Neonatal") Search modes - Boolean/Phrase S8 (MH "Intensive Care, Neonatal+") Search modes - Boolean/Phrase S7 S1 OR S2 OR S3 OR S4 OR S6 Search modes - Boolean/Phrase S6 S1 AND S5 Search modes - Boolean/Phrase S6 (MH "Respiratory Distress Syndrome+") Search modes - Boolean/Phrase	S13	(MH "Family+")	Search modes - Boolean/Phrase		
S10 TX (special and care and baby and unit*)  Search modes - Boolean/Phrase  S9 (MH "Intensive Care Units, Neonatal")  Search modes - Boolean/Phrase  S8 (MH "Intensive Care, Neonatal+")  Search modes - Boolean/Phrase  S1 OR S2 OR S3 OR S4 OR S6  Search modes - Boolean/Phrase  S6 S1 AND S5  Search modes - Boolean/Phrase  S6 (MH "Respiratory Distress Syndrome+")  Search modes - Boolean/Phrase	S12	S7 OR S8 OR S9 OR S10 OR S11	Search modes - Boolean/Phrase		
S9 (MH "Intensive Care Units, Neonatal") Search modes - Boolean/Phrase S6 (MH "Intensive Care, Neonatal+") S7 S1 OR S2 OR S3 OR S4 OR S6 S6 S1 AND S5 S6 S1 (MH "Respiratory Distress Syndrome+") S8 Search modes - Boolean/Phrase S9 Search modes - Boolean/Phrase S9 Search modes - Boolean/Phrase	S11	TX (SCBU or NICU)	Search modes - Boolean/Phrase		
S8 (MH "Intensive Care, Neonatal+") Search modes - Boolean/Phrase S7 S1 OR S2 OR S3 OR S4 OR S6 S6 S1 AND S5 Search modes - Boolean/Phrase S6 (MH "Respiratory Distress Syndrome+") Search modes - Boolean/Phrase	S10	TX (special and care and baby and unit*)	Search modes - Boolean/Phrase		
S7S1 OR S2 OR S3 OR S4 OR S6Search modes - Boolean/PhraseS6S1 AND S5Search modes - Boolean/PhraseS5(MH "Respiratory Distress Syndrome+")Search modes - Boolean/Phrase	S9	(MH "Intensive Care Units, Neonatal")	Search modes - Boolean/Phrase		
S6 S1 AND S5 Search modes - Boolean/Phrase S5 (MH "Respiratory Distress Syndrome+") Search modes - Boolean/Phrase	S8	(MH "Intensive Care, Neonatal+")	Search modes - Boolean/Phrase		
S5 (MH "Respiratory Distress Syndrome+") Search modes - Boolean/Phrase	S7	S1 OR S2 OR S3 OR S4 OR S6	Search modes - Boolean/Phrase		
	S6	S1 AND S5	Search modes - Boolean/Phrase		
S4 TX (low birth weight or very low birth weight) Search modes - Boolean/Phrase	S5	(MH "Respiratory Distress Syndrome+")	Search modes - Boolean/Phrase		
or the birth the grit of the g	S4	TX (low birth weight or very low birth weight)	Search modes - Boolean/Phrase		
S3 (MH "Infant, Low Birth Weight+") Search modes - Boolean/Phrase	S3		Search modes - Boolean/Phrase		
S2 TX (infan* or neonat* or neo-nat* or newborn* or baby or babies or preterm or pre-term or pre-matur* or pre-matur* or pre?mie* or premie or premies)  Search modes - Boolean/Phrase	S2		Search modes - Boolean/Phrase		
S1 (MH "Infant, Newborn+") Search modes - Boolean/Phrase	S1	(MH "Infant, Newborn+")	Search modes - Boolean/Phrase		

#### 3 Date of search: 07/03/2018

#### 4 Databases(s): The Cochrane Library, issue 3 of 12, March 2018

ID	Search
#1	MeSH descriptor: [Infant, Newborn] explode all trees
#2	(infan* or neonat* or neo-nat* or newborn* or baby or babies)
#3	(preterm or pre-term or prematur* or pre-matur* or preemie* or premie* or premie*)
#4	(low next birth near/3 weigh*)
#5	MeSH descriptor: [Intensive Care, Neonatal] this term only
#6	MeSH descriptor: [Intensive Care Units, Neonatal] this term only
#7	(special and care and baby and unit*)
#8	((newborn or neonatal or neo-natal) near/2 (ICU or ICUs or unit*))
#9	(SCBU or NICU)
#10	{or #1-#9}
#11	MeSH descriptor: [Family] explode all trees
#12	MeSH descriptor: [Caregivers] this term only
#13	{or #11-#12}
#14	MeSH descriptor: [Continuity of Patient Care] explode all trees
#15	MeSH descriptor: [Patient Care Planning] this term only
#16	{or #14-#15}
#17	#13 and #16
#18	((discharg* or transition* or transfer* or handoff or handover or "hand over") near/5 (parents or parent or parental or family or families or mother* or maternal or father* or paternal or sibling* or brother* or sister* or grandparent* or grandmother* or grandfather* or carer* or caregiver*))
#19	("paediatric passport*" or "pediatric passport*")
#20	{or #17-#19}
#21	#10 and #20 Publication Year from 2000 to 2018

#### 5 Health economics

6 Date of search: 08/03/2018

- 1 Database(s): Embase 1980 to 2018 Week 10, Ovid MEDLINE(R) Epub Ahead of Print, In-
- 2 Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R)
- 3 1946 to Present

1	946 1	to Present
	#	Searches
	1	exp Infant, Newborn/ use ppez
	2	newborn/ use emez
	3	prematurity/ use emez
	4	(infan* or neonat* or neo-nat* or newborn* or baby or babies).ti,ab,jw,nw.
	5	(preterm or pre-term or pre-matur* or pre-matur* or pre?mie* or premie*1).tw.
	6	exp low birth weight/ use emez
	7	(low adj3 birth adj3 weigh\$).tw.
	8	(LBW or VLBW).tw.
	9	exp Respiratory Distress Syndrome, Newborn/ use ppez
	10	neonatal respiratory distress syndrome/ use emez
	11	exp Intensive Care, Neonatal/ use ppez
	12	newborn intensive care/ use emez
	13	exp Intensive Care Units, Neonatal/ use ppez
	14	neonatal intensive care unit/ use emez
	15	Neonatal Nursing/ use ppez
	16	exp newborn nursing/ use emez
	17	(special and care and baby and unit*).tw.
	18	(SCBU or NICU).tw.
	19	or/1-18
	20	exp relative/ use emez
	21	caregiver/ use emez
	22	exp Family/ use ppez
	23	Caregivers/ use ppez
	24	or/20-23
	25	*hospital discharge/ use emez
	26	transitional care/ use emez
	27	clinical handover/ use emez
	28	patient care planning/ use emez
	29	*Continuity of Patient Care/ use ppez
	30	Patient Discharge/ use ppez or Patient Handoff/ use ppez or Patient Transfer/ use ppez or Transitional Care/ use ppez
	31	*Patient Care Planning/ use ppez
	32	or/25-31
	33	24 and 32
	34	((discharg* or transition* or transfer* or handoff or handover or "hand over") adj5 (parents or parent or parental or
	J-T	family or families or mother* or maternal or father* or paternal or sibling* or brother* or sister* or grandparent* or
		grandmother* or grandfather* or carer* or caregiver*)).tw.
	35	((paediatric or pediatric) adj passport*).tw.
	36	or/33-35
	37	19 and 36
	38	Economics/
	39	Value of life/
	40	exp "Costs and Cost Analysis"/
	41	exp Economics, Hospital/
	42	exp Economics, Medical/
	43	Economics, Nursing/
	44	Economics, Pharmaceutical/
	45	exp "Fees and Charges"/
	46	exp Budgets/
	47	(or/38-46) use ppez
	48	health economics/
	49	exp economic evaluation/
	50	exp health care cost/
	51	exp fee/
	52	budget/
	53	funding/
	54	(or/48-53) use emez
	55	budget*.ti,ab.
	56	cost*.ti.
	57	(economic* or pharmaco?economic*).ti.
	58	(price* or pricing*).ti,ab.
	59	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
	60	(financ* or fee or fees).ti,ab.
	61	(value adj2 (money or monetary)).ti,ab.
	01	(raido daja (riorio) or moriotary), ti, do.

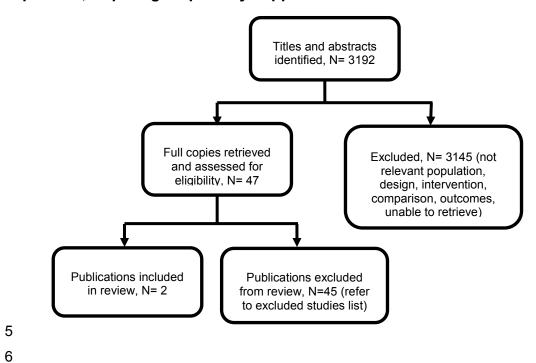
#	Searches
62	or/55-60
63	47 or 54 or 62
64	37 and 63
65	limit 64 to english language
66	limit 65 to yr="2000 -Current"
67	remove duplicates from 66

7

# Appendix C - Clinical evidence study selection

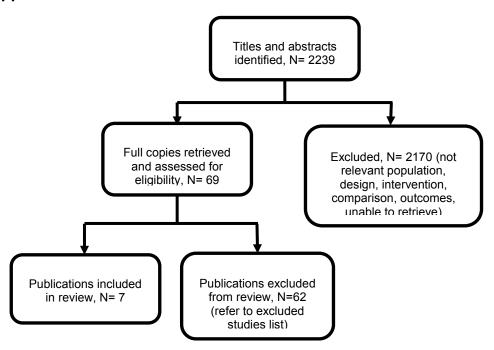
**Clinical evidence study selection for question 7.1 What factors are important** 

- 3 when planning for the safe transition from the neonatal unit of a baby born
- 4 preterm, requiring respiratory support?



Clinical evidence study selection for question 7.2 What are the support and

- 2 information needs of parents and carers of preterm babies who are
- 3 transitioning from the neonatal unit while receiving ongoing respiratory
- 4 support?



# **Appendix D – Clinical evidence tables**

Clinical evidence tables for question 7.1 What factors are important when planning for the safe transition from the neonatal unit 3 of a baby born preterm, requiring respiratory support?

Study details	Participants	Methods	Themes	Quality assessment
Full citation  Helder, O. K., Verweij, J. C., van Staa, A., Transition from neonatal intensive	Sample size N=18  Characteristics	Details Three nurses from the NICU and 3 from each Specialist Care Nursery (SCN) were interviewed. Nurses provided written informed consent at	Results Preparing parents for baby's daily care needs -Mentally	Limitations Potential selection bias from use of convenience sampling
care unit to special care nurseries: experiences of parents and nurses, Pediatric Critical Care Medicine, 13, 305-11, 2012	Not applicable  Inclusion criteria Not reported	Sampling Sampling method not reported	Practical aspects -Transportation -Home set up	Other information The assessment of the quality of the study was performed using the CASP checklist for qualitative
Ref Id		Continue.		studies  1. Was there a clear
694892  Country/ies where the study was carried out	Exclusion criteria Not reported	<b>Setting</b> 5 level 2 SCNs in the Netherlands		statement of the aims of the research? Yes  2. Is a qualitative methodology appropriate?
the Netherlands	Interventions	Data collection The interview guide was developed		Yes 3. Was the research design
Study type Semi-structured interviews	Not applicable	from a literature review and refined during the interviews. Interviews were conducted by pairs of nursing students under supervision from the		appropriate to address the aims of the research? Yes 4. Was the recruitment strategy appropriate to the
Aim of the study The aim of the study was to assess parents' and		second author. Interviews were audio-recorded and transcribed verbatim.		aims of the research? Can't tell (researchers did not describe recruitment strategy of nurse participants)

Methods	Themes	Quality assessment
Data analysis Thematic analysis was performed with researchers first analysing the parents' interviews. Researchers read the interviews to familiarise themselves with the data and then fored codes across the data. Codes were modified, expanded or merged and were collated to identify potential themes. Next, Nurses' transcript were assessing using relevant subthemes of the final coding framework developed from the parents' interviews. Peer debriefing amongst researchers and respondent validation were used to ensure validity of the analysis. An external auditor provided feedback on the themes.		5. Was the data collected in a way that addressed the research issue? Yes 6. Has the relationship between researcher and participants been adequately considered? Can't tell (researchers did not state whether they critically examined their own role in the research) 7. Have ethical issues been taken into consideration? Yes 8. Was the data analysis sufficiently rigorous? Yes 9. Is there a clear statement of findings? Yes 10. How valuable is the research? Researchers discuss the contribution the study makes to existing literature; and identify new areas where research is necessary
Details The study coordinator organised home visits 4-6 weeks post-NICU discharge.  Sampling	Results Preparing parents for the baby's daily care needs -Mentally -Practically	Limitations Fellows chose which families participated in the home visit program so participants did not reflect the diversity of the NICU population.
		-Mentally -Practically  Sampling  Practical aspects

Study details	Participants	Methods	Themes	Quality assessment
discharged from the NICU, Birth, 22, 22, 2017  Ref Id 694916  Country/ies where the study was carried out  US  Study type Semi-structured interviews  Aim of the study The aim of the study was to assess the influence of a home visiting program on neonatology fellows' understanding of family needs soon after hospital discharge.  Study dates June 2013 to January 2015  Source of funding Not reported	Early to mid 30s  Babies, n=10 Gestational age, weeks, median (IQR)= 36.5 (23-40) Male, n (%)= 5 (50) Diagnosis, n (%) Congenital anomaly= 3 (30) Prematurity= 2 (20) Hypoxic ischemic encephalopathy= 1 (10) Evaluation for sepsis= 2 (20) Hypoglycemia= 1 (10) Pulmonary embolus= 1 (10) Discharged with durable medical equipment, n (%)= 4 (40)  Inclusion criteria Fellows: preparing a baby for discharge from the NICU Babies: Eligible babies had been in the NICU for at least 1 week, had English-speaking parents, lived in the Baltimore metropolital area.  Exclusion criteria Not reported  Interventions	Setting Parents' homes  Data collection During travel to and from homes, fellows observed the neighbourhood and community resources surrounding the family's neighbourhood and community resources, such as where parents would go to buy food and supplies for the baby. After the home visit, fellows completed semi-structured interviews that were audio-recorded and transcribed.  Data analysis Transcripts were assessed by 2 researchers and manually coded and similar codes were grouped. Discrepancies in codes were resolved by consensus. Illustrative quotes were included in the write up, but were edited for clarity and to preserve anonymity.	-Transportation -Home set up  Interpersonal aspects -Normalising -Clear and simple communication with parents -Understanding the context	Other information The assessment of the quality of the study was performed using the CASP checklist for qualitative studies 1. Was there a clear statement of the aims of the research? Yes 2. Is a qualitative methodology appropriate? Yes 3. Was the research design appropriate to address the aims of the research? Yes 4. Was the recruitment strategy appropriate to the aims of the research? Can't tell (recruitment strategy not reported) 5. Was the data collected in a way that addressed the research issue? Yes 6. Has the relationship between researcher and participants been adequately considered? Can't tell (researchers did not state whether they critically examined their own role in the research) 7. Have ethical issues been taken into consideration? Can't tell (insufficient

Study details	Participants	Methods	Themes	Quality assessment
	The Health Begins at Home intervention was adapted for use in the neonatology fellowship training. At the start of the home visit program, fellows participated in a two hour training session that reviewed potential benefits of home visits, outlined goals, etc. Before the home visit the fellow reviewed the NICU discharge plans that they had made for the specific infant, focusing on those elements that required special care by the family. Fellows were accompanied by the study coordinator. Fellows began by reviewing with the parents the infant's NICU discharge plans, the fellows discussed with parents about their challenges and also observed the family's organisation of the infant's medical equipment, daily care supplies, and sleeping space.			evidence to determine whether ethical standards were maintained; parents received a developmental play mat, toys and a book for their baby for their participation) 8. Was the data analysis sufficiently rigorous? Yes 9. Is there a clear statement of findings? Yes 10. How valuable is the research? Researchers discuss the contribution the study makes to existing literature; and identify new areas where research is necessary

# Clinical evidence tables for question 7.2 What are the support and information needs of parents and carers of preterm babies 2 transitioning from the neonatal unit while receiving respiratory support?

transitioning from the heonatal unit while receiving respiratory support:					
Study details	Participants	Methods	Themes	Comments	
Full citation  Burnham,N., Feeley,N., Sherrard,K., Parents' perceptions regarding readiness for their infant's discharge from the NICU, Neonatal Network, 32, 324- 334, 2013  Ref Id 325123  Country/ies where the study was carried out Canada  Study type Semi-structured interviews	Characteristics Parents, n= 20 Female, n (%)= 16 (80) Age, years, mean (SD)= 35.9 (5.7) Education Junior college or less, n (%)= 5 (25) Trade/technical program certificate, n (%)= 1 (5) University, n (%)= 14 (70) Babies, n=24 Gestational age, weeks, mean (SD)=31.1 (3.1) Birth weight, grams, mean (SD)=1436.9 (488.1) Mechanical ventilation, n (%)= 6 (33.3)	Details After the study received ethical approval, potential participants were during the baby's hospitalisation by the Clinical Nurse Specialist to explain the study and obtain permission for the first author to make contact. If both parents of a baby participated, they were interviewed separately and each counted as a participant.  Sampling Recruitment was conducted using maximum variation sampling at two different time points - predischarge and postdischarge.	Results Information needs  Preparation How to prepare the home Hands on experience in the NICU Routine care Physiological needs How to tell if baby is doing well What to do if something goes wrong Medical information specific to baby's condition Follow up	Limitations Limited generalisability due to participants coming from one urban setting, participants being older and well-educated and living with their partners. All babies were stable at the time of interviews; not known whether parents of sicker babies would have different needs.  Other information The assessment of the quality of the study was performed using the CASP checklist for qualitative studies 1. Was there a clear statement of the aims of	
The aim of the study The aim of the study was to explore what parents need in order to feel ready for the discharge of their baby from the NICU	CPAP/HFNC, n (%)= 15 (62.5) Intravenous or central line, n (%)= 22 (91.7) Chest tube, n (%)= 1 (6.3) Gavage/total parenteral	At the hospital in a private room or at the parents' homes	<ul><li>Resource</li><li>Personnel</li></ul>	the research?  2. Is a qualitative methodology appropriate?  3. Was the research design appropriate to address the size of the	
Study dates	nutrition, n (%)= 2 (87.5)	Data collection Participants completed a demographic questionnaire. Semi- structured interviews were	<ul><li>Support needs</li><li>Medical staff support</li></ul>	address the aims of the research? 4. Was the recruitment strategy appropriate to the	

Study details	Participants	Methods	Themes	Comments
Source of funding Quebec Minister of Education, Recreation and Sports; Quebec Interuniversity Nursing Intervention Group; Fund for Quebec Research- Health	Inclusion criteria  18 years of age or older, speak English or French, with babies who were stable, as determined by a clinician and in the parents' care after discharge.  Exclusion criteria Parents of infants who were diagnosed with grade IV intraventricular haemorrhage, diagnosed with trisomy 21 malformation, being transferred to the children's hospital, palliative, and born to mothers suffering from addiction  Interventions Not applicable	performed in person and lasted one hour. Participants in the predischarge group were interviewed prior to going home with the baby and parents in the postdischarge group were interviewed 3-8 weeks after being discharged. Interviews were audio-recorded and transcribed verbatim.  Data analysis  First interviews were read over multiple times. NVivo software was used to perform open coding. The list of categories was examined by the researchers and categories were collapsed into broader subheadings. Subheadings were organised into higher-order themes. Credibility, dependability, confirmability and transferability were assessed to ensure the trustworthiness of the study data.	<ul> <li>Being able to contact about questions</li> <li>Self care</li> <li>Feeling ready</li> <li>Trust and security</li> </ul>	aims of the research?  5. Was the data collected in a way that addressed the research issue?  6. Has the relationship between researcher and participants been adequately considered? Can't tell (researchers did not state whether they critically examined their own role in the research)  7. Have ethical issues been taken into consideration?  8. Was the data analysis sufficiently rigorous?  9. Is there a clear statement of findings?  10. How valuable is the research? Researchers discuss the contribution the study makes to existing literature; and identify new areas where research is necessary
Full citation  Dellenmark-Blom, Michaela, Wigert, Helena, Parents' experiences with	Sample size N=22	Details Using medical records, nearly 200 families were identified as meeting inclusion criteria. Prior to NICU discharge, parents had to	Results Information needs  • Routine care	Limitations Findings may not be applicable to other health care contexts where health insurance and health

Study details	Participants	Methods	Themes	Comments
neonatal home care following initial care in the neonatal intensive care unit: A phenomenological hermeneutical interview study, J Adv NursJournal of advanced nursing, 70, 575- 586, 2014  Ref Id 800591  Country/ies where the study was carried out  Sweden  Study type Open-ended interviews	Baby, n=18 Male sex, n (%)= 9 (50) Gestational age, weeks, median (IQR)= 33.5 (25-37) Birth weight, grams, median (IQR)= 1947.5 (870-3200) Medical treatment in the NICU, n (%) Mechanical ventilation= 2 (11.1) Nasal CPAP= 5 (27.8) Intravenous drug= 11 (61.1) Nasogastric tube= 18 (100)	have received education and training tailored to their baby's specific needs and had to have stayed with the baby in a family room in the NICU for more than 2 nights.  Sampling Purposive sampling was used to ensure variability amongst participants in terms of infant sex, gestational age at birth, birth weight and length of stay in the NICU and NHC. Prospective participants were contacted.  Setting Parents' homes	<ul> <li>How to tell if baby is doing well</li> <li>Support needs</li> <li>Medical staff support         <ul> <li>Being able to contact about questions</li> <li>Building confidence</li> <li>Trust and security</li> </ul> </li> </ul>	delivery promote the presence of parents during the baby's hospital stay. Some parents were interviewed together and this could have caused interference amongst narratives.  Other information The assessment of the quality of the study was performed using the CASP checklist for qualitative studies 1. Was there a clear statement of the aims of the research? Yes 2. Is a qualitative methodology appropriate? Yes
The aim of the study was to explore parents' experiences with neonatal home care following care in the NICU  Study dates 2011-2012	The baby's initial neonatal care took place in a level III NICU and was followed by care in the NHC, interviews took place within 12 months of discharge from the NHC, and parents spoke and understood Swedish  Exclusion criteria Not reported	Data collection Open-ended interviews were audio-recorded and transcribed verbatim. Interviews were 26-52 minutes and were started with similar questions aimed to probe the parents to go in depth in their experiences.		3. Was the research design appropriate to address the aims of the research? Yes 4. Was the recruitment strategy appropriate to the aims of the research? Yes 5. Was the data collected in a way that addressed the research issue? Yes 6. Has the relationship between researcher and

Study details	Participants	Methods	Themes	Comments
Source of funding Swedish government grants for medical resaearch; scholarships from the Swedish National Association for Pediatric Nurses, the Foundation of Herbery and Karin Jacobsson and Mary von Sydow	Interventions Not applicable	Data analysis Using a phenomenological hermeneutic method, the data was first analysed by reading the transcriptions several times. Then the texts were divided into meaning units, which were condensed into preliminary subthemes and themes. Meanings were discussed until the researchers agreed. Validity was strengthened through discussions among the researchers about the relationship between parts and the whole of the text.		participants been adequately considered? Yes 7. Have ethical issues been taken into consideration? Yes 8. Was the data analysis sufficiently rigorous? Yes 9. Is there a clear statement of findings? Yes 10. How valuable is the research? Researchers discuss the contribution the study makes to existing literature; and identify new areas where research is necessary
Full citation  Helder, O. K., Verweij, J. C. M., Van Staa, A., Transition from neonatal intensive care unit to special care nurseries: Experiences of parents and nurses, Pediatric Critical Care Medicine, 13, 305-311, 2012  Ref Id	Sample size N= 28  Characteristics Parents, n=28 Mothers, n (%)= 21 (75) Non-Dutch ethnic background, n (%)= 7 (25) Mother's age, years, mean (SD)= 31.2 (4.6) Babies, n=24	Details The first author first called eligible parents to see if they wanted to participate in the study. If they agreed, an interview time was arranged. Interviews were conducted by pairs of nursing students under supervision of the second author.  Sampling Convenience sampling was used	Results Information needs  • Preparation	Limitations Potential selection bias from use of convenience sampling  Other information The assessment of the quality of the study was performed using the CASP checklist for qualitative studies 1. Was there a clear

Study details	Participants	Methods	Themes	Comments
Country/ies where the study was carried out the Netherlands  Study type Semi-structured interviews  Aim of the study The aim of the study was to assess parents' and nurses' experiences with the transition of babies from the NICU to a special care	Gestational age, weeks, median (IQR)= 30.7 (26.0-39.4) Birth weight, grams, median (IQR)= 1780 (635-4000) Female, n (%)= 16 (66.7) CRIB score, mean (SD)= 2 (0.5)  Inclusion criteria Parents of babies transferred from the NICU to one of five SCNs in the region in the last six months of 2005.  Exclusion criteria	Setting 5 level 2 SCNs in the Netherlands  Data collection The interview guide was developed from a literature review and refined during the interviews. Interviews were conducted by pairs of nursing students under supervision from the second author. Interviews were audio- recorded and transcribed verbatim.		statement of the aims of the research? Yes 2. Is a qualitative methodology appropriate? Yes 3. Was the research design appropriate to address the aims of the research? Yes 4. Was the recruitment strategy appropriate to the aims of the research? Yes 5. Was the data collected in a way that addressed the research issue? Yes 6. Has the relationship between researcher and participants been
Study dates 2005-2008  Source of funding Not reported	Interventions Not applicable	Data analysis Thematic analysis was performed with researchers first analysing the parents' interviews. Researchers read the interviews to familiarise themselves with the data and then formed codes across the data. Codes were modified, expanded or merged and were collated to identify potential themes. Next, Nurses' transcript were assessing using relevant subthemes of the final coding framework developed from		adequately considered? Can't tell (researchers did not state whether they critically examined their own role in the research) 7. Have ethical issues been taken into consideration? Yes 8. Was the data analysis sufficiently rigorous? Yes 9. Is there a clear statement of findings? Yes 10. How valuable is the research? Researchers discuss the contribution the study makes to

Study details	Participants	Methods	Themes	Comments
		the parents' interviews. Peer debriefing amongst researchers and respondent validation were used to ensure validity of the analysis. An external auditor provided feedback on the themes.		existing literature; and identify new areas where research is necessary
Full citation  Lindberg,B., Axelsson,K., Ohrling,K., Experience with videoconferencing between a neonatal unit and the families' home from the perspective of certified paediatric nurses, Journal of Telemedicine and Telecare, 15, 275-280, 2009  Ref Id 307020  Country/ies where the study was carried out Sweden  Study type Semi-structured interviews	Characteristics Parents, n= 20 Mothers, n (%)= 10 (50) Mother's age, years, median (IQR)= 33.5 (28-39) Father's age, years, median (IQR)= 37.5 (29-44) First time parents, n (%)= 12 (60) Babies, n= 10 Gestational age, weeks, range= 24-33 Gestational age at discharge, range= 34-39  Inclusion criteria Being parents of a preterm baby born at 34 weeks	Details Parents received information on the study from the paediatric nurse, in both written and verbal form. Parents who met inclusion criteria were shown how to use the videoconferencing equipment.  Sampling Purposive sampling used  Setting In the NICU or over the phone  Data collection Data were collected from interviews and notes. The parents were interviewed together. The	Results Support needs  • Medical staff support	Did not report  Other information The assessment of the quality of the study was performed using the CASP checklist for qualitative studies 1. Was there a clear statement of the aims of the research? Yes 2. Is a qualitative methodology appropriate? Yes 3. Was the research design appropriate to address the aims of the research? Yes 4. Was the recruitment strategy appropriate to the aims of the research?

Study details	Participants	Methods	Themes	Comments
Aim of the study The aim of the study was to assess the experiences of parents of preterm babies on the use of real-time videoconferencing between their home and the NICU.  Study dates Not reported  Source of funding Centre for Distance- Spanning Health Care; Norrbotten County Council	participants, access to internet or ADSL from home.	freely about their own experiences on the use of the video conferencing. Interviews lasted 30-60 minutes, were audio recorded and were transcribed verbatim.  Data analysis Thematic content analysis was used to assess the data. Each interview was read several times and then meaning units were attached to the text. Units were condensed and grouped into categories. Categories were linked.		why the participants they selected were the most appropriate to provide access to the type of knowledge sought by the study) 5. Was the data collected in a way that addressed the research issue? 6. Has the relationship between researcher and participants been adequately considered? Can't tell (researchers did not state whether they critically examined their own role in the research) 7. Have ethical issues been taken into consideration? 8. Was the data analysis sufficiently rigorous? Can't tell (Authors did not discuss triangulation to ensure credibility) 9. Is there a clear statement of findings? Yes 10. How valuable is the research? Researchers discuss the contribution the study makes to existing literature; and identify new areas where research is necessary

Study details	Participants	Methods	Themes	Comments
Full citation  Murdoch, Marlies R., Franck, Linda S., Gaining confidence and perspective: A phenomenological study of mothers' lived experiences caring for infants at home after neonatal unit discharge, Journal of Advanced Nursing, 68, 2008-2020, 2012  Ref Id 695494  Country/ies where the study was carried out  Canada  Study type Semi-structured interviews  Aim of the study The aim of the study was to explore mothers' experiences in caring for	Sample size N= 9  Characteristics Mothers, n= 9 Age, years, median (IQR)= 34 (27-42) First pregnancy, n (%)= 6 (66%) Ethnicity, n (%) White British= 6 Black= 1 Middle Eastern= 1 White= 1 Infants, n=10 (one set of twins) Male, n (%)= 6 (60) Gestational age, weeks, median (IQR)= 31 (24-42) Diagnoses, n (%) Preterm= 8 (80) Chronic lung disease= 4 (40) Patent ductus arteriosus= 4 (40) Respiratory distress syndrome= 2 (20) Trisomy 21= 1 (10) Medical needs postdischarge, n (%) Supplemental oxygen= 3 (30)	consecutive members who had returned the postdischarge survey for the RCT, regardless of group assignment.  Setting Participant's home or over the phone  Data collection Interviews were audio-recorded.	Results Information needs  • Routine care	Limitations Variation in the time between discharge and the interviews could have influenced mothers' experiences. No fathers were interviewed.  Other information The assessment of the quality of the study was performed using the CASP checklist for qualitative studies 1. Was there a clear statement of the aims of the research? Yes 2. Is a qualitative methodology appropriate? Yes 3. Was the research design appropriate to address the aims of the research? Yes 4. Was the recruitment strategy appropriate to the aims of the research? Yes 5. Was the data collected in a way that addressed the research issue? Yes

Study details	Participants	Methods	Themes	Comments
preterm babies following discharge from the NICU.  Study dates 2007-2008  Source of funding Bliss, UK	Inclusion criteria Parent was fluent in English and participated in the larger RCT of parent involvement in infant comfort in the NICU.  Exclusion criteria Parent less than 6 years of age, lack of fluency in English, documented psychological or psychiatric conditions.  Interventions Not applicable	Data analysis The first author transcribed the interviews verbatim. Transcripts were read twice to identify meaning units. Meaning units were then grouped into themes. Credibility, transferability, dependability and confirmability were achieved through various methods- a reflective diary, audiorecorder, auditing transcripts, and validation of results by the second author.		6. Has the relationship between researcher and participants been adequately considered? Can't tell (researchers did not state whether they critically examined their own role in the research) 7. Have ethical issues been taken into consideration? Can't tell (Insufficient details to explain whether ethical standards were maintained throughout study) 8. Was the data analysis sufficiently rigorous? Yes 9. Is there a clear statement of findings? Yes 10. How valuable is the research? Researchers discuss the contribution the study makes to existing literature; and identify new areas where research is necessary
Full citation  Jackson, K., Ternestedt, B. M., Schollin, J., From alienation to familiarity:	Sample size N=14	Details Sampling	Results Information needs  • Preparation	Limitations Parents were interviewed together which could have caused interference between narratives.

Study details	Participants	Methods	Themes	Comments
experiences of mothers and fathers of preterm infants, Journal of Advanced Nursing, 43, 120-9, 2003  Ref Id  445669  Country/ies where the study was carried out  Sweden  Study type  Semi-structured interviews  Aim of the study  The aim of the study was to assess how parents of preterm babies describe their experiences of parenthood during the baby's first 18 months  Study dates 1999  Source of funding  Not reported	Characteristics Parents, n= 14 Mothers, n (%)= 7 (50) Mother's age, years, median (range)= 32.5 (28-37) Father's age, years, median (range)= 32.5 (31-39) Babies, n= 8 Male, n (%)= 5 (62.5) Birth weight, grams, median (range)= 1467.5 (660-2385) Gestational age, weeks, median (range)= 30 (25-34) Length of hospitalisation, days, median (range)= 49 (14-121)  Inclusion criteria Babies were born at a gestational age ≤ 34 weeks without any congenital or chromosomal abnormalities, parents spoke Swedish and lived in the county. Babies were judged by a neonatologist at 1 week to have a good chance of survival.  Exclusion criteria Not reported	Setting Interviews 1 and 2 took place in the NICU, interviews 3 and 4 took place in the parents' homes  Data collection Sets formed of the mother and father were considered a single unit. The majority of interviews were conducted with mothers and fathers together. Each interview built on the previous one. Interviews lasted 45-90 minutes and were audio-recorded and transcribed verbatim. Interviews took place at during different time points in the baby's development -1-2 weeks after birth; at the time of discharge from the NICU; when the baby was 6 months old; and when the baby was 18 months old.  Data analysis First all of the transcripts were read to gain an understanding of the content. The text was divided into meaning units, which were	Hands-on experience in the NICU  Support needs      Medical staff support     Feeling ready     Trust and security     Family support     Other parents	Other information The assessment of the quality of the study was performed using the CASP checklist for qualitative studies 1. Was there a clear statement of the aims of the research? Yes 2. Is a qualitative methodology appropriate? Yes 3. Was the research design appropriate to address the aims of the research? Yes 4. Was the recruitment strategy appropriate to the aims of the research? Can't tell (recruitment strategy not reported) 5. Was the data collected in a way that addressed the research issue? Yes 6. Has the relationship between researcher and participants been adequately considered? Yes 7. Have ethical issues been taken into consideration? Can't tell

Study details	Participants	Methods	Themes	Comments
	Interventions Not applicable	transformed into a nursing perspective. Meaning units were condensed into 4 main themes which were then integrated to form a structural framework. The syntheses were validated by the second author and discrepancies were discussed until agreement was reached.		(insufficient evidence to tell whether ethical standards were maintained) 8. Was the data analysis sufficiently rigorous? Yes 9. Is there a clear statement of findings? Yes 10. How valuable is the research? Researchers discuss the contribution the study makes to existing literature; and identify new areas where research is necessary
Full citation  Jönsson, L, Fridlund, B, Parents' Conceptions of Participating in a Home Care Programme from NICU: A Qualitative Analysis, Vård i Norden, 23, 35-39, 2003  Ref Id 861172  Country/ies where the study was carried out	Sample size N=23 Characteristics Parents, n=23 Age, n (%) < 30= 11 (47.8) 31-35= 7 (30.4) > 36= 5 (21.7) Female, n (%)= 17 (73.9) Twins, n (%)= 3 (13.0) Inclusion criteria	Details Potential participants were first contacted by post and then by phone to confirm the interview. Parents who agreed to participate provided informed consent.  Sampling Strategic sampling was used to select participants with varying ages, gender, profession, and additional children.	Results Information needs  • Format  • Personnel  Support needs  • Medical staff support  • Being able to contact about questions  • Familial support	Limitations Lack of generalisability to broader populations  Other information  The assessment of the quality of the study was performed using the CASP checklist for qualitative studies
Sweden				

Study details	Participants	Methods	Themes	Comments
Study type Semi-structured interviews	Parents whose babies were cared for in a NICU in the southwestern part of Sweden	Setting Parents' home or the hospital		1. Was there a clear statement of the aims of the research? Yes
Aim of the study The aim of the study was to describe parents' conceptions of participating in a home care programme provided by the NICU.  Study dates 1999  Source of funding Not reported	Exclusion criteria	Data collection Interviews were audio-recorded and transcribed verbatim and lasted 30-60 minutes. The interview questions were developed by the study authors and were piloted on 2 participants.  Data analysis Transcripts were first read several times to gain an understanding of the texts. Segments of text were meaning were isolated and compared with each other. These codes were combined to create the final coding framework. Data saturation was reached after 16 interviews.		2. Is a qualitative methodology appropriate? Yes  3. Was the research design appropriate to address the aims of the research? Yes  4. Was the recruitment strategy appropriate to the aims of the research? Yes  5. Was the data collected in a way that addressed the research issue? Yes  6. Has the relationship between researcher and participants been adequately considered? Yes  7. Have ethical issues been taken into consideration? Yes  8. Was the data analysis sufficiently rigorous? No

Study details	Participants	Methods	Themes	Comments
				(Researchers did not explain how the data presented were selected from the original sample to demonstrate the analysis process; insufficient data were presented to support the findings)  9. Is there a clear statement of findings? Yes  10. How valuable is the research? Researchers discuss the contribution the study makes to existing literature; and identify new areas where research is necessary

# Appendix E - Forest plots

Eorest plots for question 7.1 What factors are important when planning for the

- 3 safe transition from the neonatal unit of a baby born preterm, requiring
- 4 respiratory support?
- 5 Not applicable for this review.

Forest plots for question 7.2 What are the support and information needs of parents and carers of preterm babies who are transitioning from the neonatal unit while receiving ongoing respiratory support?

9 Not applicable for this review.

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### 1 Appendix F – GRADE CERQual tables

**GRADE CERQual tables for question 7.1 What factors are important when planning for the safe transition from the neonatal unit** 3 of a baby born preterm, requiring respiratory support?

4 Table 5: Qualitative evidence profile: Theme 1. Preparing parents for the baby's daily care needs

Study information			CERQual assessment of the evidence		
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
Sub theme 1: Mentally					
2 (Helder 2012; Hobbs 2017)	2 semi-structured	2 studies conducted in different countries (the	Methodological limitations	Moderate concerns <sup>1,2</sup>	Very low
	interviews	Netherlands, USA) among 28 critical care nurses and neonatology fellows responsible for preterm	Relevance of findings	Moderate concerns <sup>3</sup>	
		infants requiring respiratory support during	Coherence of findings	No concerns	
		discharge from the NICU reported that staff should address parents' fears and anxieties by giving helpful information and encouraging them to express their feelings while participating in the baby's care.	Adequacy of evidence	Moderate concerns <sup>4</sup>	
Sub theme 2: Practically					
2 (Helder 2012; Hobbs 2017)	2 semi-structured	2 studies conducted in different countries (the	Methodological limitations	Moderate concerns <sup>1,2</sup>	Very low
	interviews	Netherlands, USA) among 28 critical care nurses and neonatology fellows responsible for preterm	Relevance of findings	Moderate concerns <sup>3</sup>	
		infants requiring respiratory support during	Coherence of findings	No concerns	
		discharge from the NICU reported that it is necessary to prepare parents for the responsibility of their baby's care by involving them in daily care activities in the NICU. Discharge plans should include information on routine newborn care, as well as information specific to their preterm baby's needs, such as calculating battery power or how to attend doctor's appointments with babies on medical technology.	Adequacy of evidence	Moderate concerns <sup>4</sup>	

NICU: neonatal intensive care un

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<sup>&</sup>lt;sup>1</sup>The confidence in the methodological quality was downgraded by 1 due to the study not clearly reporting the sampling method or relationship between the researcher and participants (Helder 2012)

<sup>2</sup>The confidence in the methodological quality was downgraded by 1 due to the study not clearly reporting the sampling method or relationship between the researcher and participants (Hobbs 2017)

<sup>3</sup>The confidence in the relevance of the evidence was downgraded by 1 due to a proportion of the babies not being preterm, having a congenital abnormality, or not requiring respiratory support (Hobbs 2017)

1 4The confidence in the adequacy of the evidence was downgraded by 1 due to data saturation not being reached. Themes were under-developed and analysing further data would likely reveal new data and concepts.

### 3 Table 6: Qualitative evidence profile: Theme 2. Practical aspects

Study information			CERQual assessment of the evidence		
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
Sub theme 1: Transportation					
2 (Helder 2012; Hobbs 2017)	2 semi-structured	2 studies conducted in different countries (the	Methodological limitations	Moderate concerns <sup>1,2</sup>	Very low
	interviews	Netherlands, USA) 28 among critical care nurses and neonatology fellows responsible for preterm	Relevance of findings	Moderate concerns <sup>3</sup>	
		infants requiring respiratory support during	Coherence of findings	No concerns	
		discharge from the NICU reported that nurses need to know the time of departure in order to coordinate the transfer and decrease parents' anxiety. It is also important for parents to learn how to travel with their technology-dependent preterm baby to facilitate mobility and attendance at appointments.	Adequacy of evidence	Moderate concerns⁴	
Sub theme 2: Home set up					
2 (Helder 2012; Hobbs 2017)	2 semi-structured	2 studies conducted in different countries (the	Methodological limitations	Moderate concerns <sup>1,2</sup>	Very low
	interviews	Netherlands, USA) among 28 critical care nurses and neonatology fellows responsible for preterm	Relevance of findings	Minor concerns <sup>3</sup>	
		infants requiring respiratory support during	Coherence of findings	No concerns	
		discharge from the NICU reported that parents should be informed of the requirements of the home prior discharge in order to provide them with enough time to make necessary conversions.  Homes should be clean and quiet.	Adequacy of evidence	Moderate concerns <sup>4</sup>	

NICU: neonatal intensive care unit

<sup>&</sup>lt;sup>1</sup>The confidence in the methodological quality was downgraded by 1 due to the study not clearly reporting the sampling method or relationship between the researcher and participants (Helder 2012)

<sup>2</sup>The confidence in the methodological quality was downgraded by 1 due to the study not clearly reporting the sampling method or relationship between the researcher and participants (Hobbs 2017)

<sup>3</sup>The confidence in the relevance of the evidence was downgraded by 1 due to a proportion of the babies not being preterm, having a congenital abnormality, or not requiring respiratory support (Hobbs 2017)

<sup>&</sup>lt;sup>4</sup> The confidence in the adequacy of the evidence was downgraded by 1 due to data saturation not being reached. Themes were under-developed and analysing further data would likely reveal new data and concepts.

### 1 Table 7: Qualitative evidence profile: Theme 3. Interpersonal aspects

Study information			CERQual assessment of the evidence		
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
Sub theme 1: Normalising					
1 (Hobbs 2017)	1 semi-structured	1 study conducted in the USA among 10	Methodological limitations	Moderate concerns <sup>1</sup>	Very low
	interview	neonatology fellows responsible for preterm babies requiring respiratory support during	Relevance of findings	Moderate concerns <sup>2</sup>	
		discharge from the NICU reported that parents	Coherence of findings	No concerns	
		should be assisted in learning how to normalise daily life, for example, how to run errands or to secure childcare for medically complex babies. Efforts should also be made to ensure that home care routines permit time for parents to sleep and home nursing be made available to provide parents physical and emotional respite.	Adequacy of evidence	Moderate concerns <sup>3</sup>	
Sub theme 2: Clear and si	mple communication wit	h parents			
1 (Hobbs 2017)	1 semi-structured	1 study conducted in the USA among 10 neonatology fellows responsible for preterm babies requiring respiratory support during discharge from the NICU reported that clear communication throughout the discharge process so that parents can adequately care for the baby. The home nursing team should be identified in advance of the discharge date so as to avoid a rushed and chaotic discharge process. Follow-up appointments should be scheduled with parents and care instructions should avoid medical jargon and acknowledge the new care setting in the home.	Methodological limitations	Moderate concerns <sup>1</sup>	Very low
	interview		Relevance of findings	Moderate concerns <sup>2</sup>	
			Coherence of findings	No concerns	
			Adequacy of evidence	Moderate concerns <sup>3</sup>	
1 (Hobbs 2017)	1 semi-structured	1 study conducted in the US among 10	Methodological limitations	Moderate concerns <sup>1</sup>	Very low
	interview	neonatology fellows responsible for preterm babies requiring respiratory support during	Relevance of findings	Moderate concerns <sup>2</sup>	
		discharge from the NICU reported that staff from	Coherence of findings	No concerns	
		the NICU should account for family dynamics and should consider the role of extended family members during the NICU discharge process.  Asking about the social environment is important for staff when creating the discharge plan so that home care routines are appropriate for the family's context.	Adequacy of evidence	Moderate concerns <sup>3</sup>	

# 7 GRADE CERQual tables for question 7.2 What are the support and information needs of parents and carers of preterm babies 8 who are transitioning from the neonatal unit while receiving ongoing respiratory support?

9 Table 8: Qualitative evidence profile: Theme 1. NICU staff support

Study information			CERQual assessment of the evidence		evidence
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
Sub-theme 1: Being able to c	ontact about question	is and the second secon			
5 (Burnham 2013; Dellemark-	5 semi-structured	5 studies conducted in different countries	Methodological limitations	Serious concerns <sup>1,2</sup>	Very low
Blom 2016; Jonsson 2003; Lindberg 2009; Murdoch	interviews	(Canada; Sweden) among mothers and parents of preterm babies who are transitioning from the	Relevance of findings	Moderate concerns <sup>3</sup>	
2012)		neonatal unit while receiving respiratory support	Coherence of findings	No concerns	
		restricted with the reserving respirately support	Adequacy of evidence	No concerns	
Sub theme 2: Building confid	ence				
2 (Dellenmark-Blom 2016;	2 semi-structured	interviews (Canada; Sweden) among mothers and parents of preterm babies who are transitioning from the neonatal unit while receiving respiratory support	Methodological limitations	No concerns	Low
Murdoch 2012)	interviews		Relevance of findings	Moderate concerns <sup>3</sup>	
			Coherence of findings	No concerns	
	repo con help		Adequacy of evidence	Minor concerns <sup>4</sup>	
Sub theme 3: Feeling ready					
3 (Burnham 2013; Jackson	3 semi-structured	3 studies conducted in different countries	Methodological limitations	Minor concerns <sup>2</sup>	High
2003; Lindberg 2009)	interviews	(Canada; Sweden) among parents of preterm babies who are transitioning from the neonatal	Relevance of findings	No concerns	
		unit while receiving respiratory support reported	Coherence of findings	No concerns	
		that receiving positive feedback from NICU staff and participating in the decisions about the discharge enabled parents to feel ready.	Adequacy of evidence	No concerns	

<sup>1</sup> The confidence in the methodological quality was downgraded by 1 due to the study not clearly reporting the sampling method or relationship between the researcher and participants, as well as (Hobbs 2 2017)

<sup>3 2</sup>The confidence in the relevance of the evidence was downgraded by 1 due to a proportion of the babies not being preterm, having a congenital abnormality, or not requiring respiratory support (Hobbs 2017)

<sup>&</sup>lt;sup>3</sup> The confidence in the adequacy of the evidence was downgraded by 1 due to data saturation not being reached. Themes were under-developed and analysing further data would likely reveal new data and concepts.

Study information			CER	Qual assessment of the	evidence
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
Sub-theme 4: Self care					
1 (Burnham 2013)	1 semi-structured	1 study conducted in Canada among parents of	Methodological limitations	No concerns	Moderate
	interview	preterm babies who are transitioning from the neonatal unit while receiving respiratory support	Relevance of findings	No concerns	
		reported that NICU staff could remind them about	Coherence of findings	No concerns	
		the risk of postpartum depression and provide resources to provide more support.	Adequacy of evidence	Moderate concerns <sup>4</sup>	
Sub-theme 5: Trust and secu	ırity				
5 (Burnham 2013;	5 semi-structured	5 studies conducted in different countries	Methodological limitations	Minor concerns <sup>2</sup>	Low
Dellenmark-Blom 2016; Helder 2012; Jackson 2003;	interviews	(Canada; the Netherlands; Sweden) among parents of preterm babies who are transitioning	Relevance of findings	Moderate concerns <sup>3</sup>	
		from the neonatal unit while receiving respiratory	Coherence of findings	No concerns	
Lindberg 2009)		support reported that remaining in contact with the NICU post-discharge helped them to feel secure. Having nurses who took the time to discuss questions and concerns while the baby was still in the NICU helped the parents to build a sense of trust and feel secure knowing that they could contact staff later on.	Adequacy of evidence	No concerns	

<sup>&</sup>lt;sup>1</sup>The confidence in the quality of the evidence was downgraded by 2 because researchers did not explain how the data presented were selected from the original sample to demonstrate the analysis process; insufficient data were presented to support the findings (Jonsson 2003)

<sup>2</sup>The confidence in the quality of the evidence was downgraded by 1 because researchers did not explain the recruitment strategy; did not explain whether they critically examined their own role in the

### 9 Table 9: Qualitative evidence profile: Theme 2. Family support

Study information			CERQual assessment of confidence in the evidence		in the evidence
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
3 (Jackson 2003; Jonsson 3 semi-structured 3 studies conducted in di	3 studies conducted in different countries (Canada; Sweden) among mothers and parents of	Methodological limitations Relevance of findings	Serious concerns <sup>1,2</sup> Moderate concerns <sup>3</sup>	Very low	
		preterm babies who are transitioning from the neonatal unit while receiving respiratory support reported that receiving support from parents or siblings helped mothers to become confident in their caretaking abilities and to distribute the	Coherence of findings Adequacy of evidence	No concerns No concerns	

research; or did not discuss methods to ensure credibility i.e. triangulation, participant validation (Lindberg 2009; Murdoch 2012)

3 The confidence in the relevance of the findings was downgraded by 2 because a portion of the babies were born full-term, had a congenital malformation, or did not require respiratory support

<sup>(</sup>Dellenmark-Blom 2016; Murdoch 2012)

The confidence in the adequacy of the evidence was downgraded by 1 due to data saturation not being reached. Themes were under-developed and analysing further data would likely reveal new data and concepts.

Study information			CERQual assessment of confidence in the evidence		
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
		burden of caretaking and household tasks. Additionally, fathers described feeling guilty when they struggled to balance work and family life and wished that they could provide more support for the mothers.			

<sup>&</sup>lt;sup>1</sup>The confidence in the quality of the evidence was downgraded by 2 because researchers did not explain how the data presented were selected from the original sample to demonstrate the analysis process; insufficient data were presented to support the findings (Jonsson 2003)

<sup>2</sup>The confidence in the quality of the evidence was downgraded by 1 because researchers did not explain the recruitment strategy; did not explain whether they critically examined their own role in the

### 7 Table 10: Qualitative evidence profile: Theme 3. Other parents

Study inform	nation		CERQual as	sessment of confidence	in the evidence
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
1 (Jackson 2003)		Methodological limitations	No concerns	Moderate	
reported that mothers wanted to be in contact with	neonatal unit while receiving respiratory support	Relevance of findings	No concerns		
		Coherence of findings	No concerns		
	Adequacy of evidence	Minor concerns <sup>1</sup>			

<sup>1</sup> The confidence in the adequacy of the evidence was downgraded by 1 due to data saturation not being reached. Themes were under-developed and analysing further data would likely reveal new data and concepts.

#### 10 Information needs

### Table 11: Qualitative evidence profile: Theme 1. Preparation

Study information			CERQual assessment of the evidence		
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
Sub theme 1: How to prepare	the home				
1 (Burnham 2013)	Semi-structured	· · · · · · · · · · · · · · · · · · ·	Methodological limitations	No concerns	Moderate
	interviews		Relevance of findings	No concerns	
			Coherence of findings	No concerns	

research; or did not discuss methods to ensure credibility i.e. triangulation, participant validation (Murdoch 2012)

<sup>&</sup>lt;sup>3</sup>The confidence in the relevance of the findings was downgraded by 2 because a portion of the babies were born full-term, had a congenital malformation, or did not require respiratory support (Dellenmark-Blom 2016: Murdoch 2012)

Study inforn	nation		CER	Qual assessment of the	evidence
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
		support reported that parents would have liked a clear set of instructions about the specialised materials that needed to be bought ahead of time, such as thermometers, scales, and respiratory monitors, as well as changes that needed to be made to the home to accommodate equipment. Furthermore, safety instructions, such as limiting the number of visitors to the home should be communicated prior to discharge.	Adequacy of evidence	Minor concerns <sup>1</sup>	
Sub theme 2: Hands-on expe	erience in the NICU				
2 (Burnham 2013; Jackson 2 semi-structured interviews		2 studies conducted in different countries	Methodological limitations	No concerns	Moderate
	(Canada; Sweden) among parents of preterm babies who are transitioning from the neonatal	Relevance of findings	No concerns		
		unit while receiving respiratory support reported	Coherence of findings	No concerns	
			Adequacy of evidence	Minor concerns <sup>1</sup>	
Sub theme 3: Transportation	from the NICU				
1 (Helder 2012)	1 semi-structured	1 study conducted in the Netherlands among	Methodological limitations	Minor concerns <sup>2</sup>	Very low
interview	interview	parents of preterm babies who are transitioning from the neonatal unit while receiving respiratory	Relevance of findings	Moderate concerns <sup>3</sup>	
		support reported that parents wanted a consistent	Coherence of findings	No concerns	
	policy on whether they could join their baby in the ambulance during transfer from the NICU.	Adequacy of evidence	Minor concerns <sup>1</sup>		

<sup>1</sup> The confidence in the adequacy of the evidence was downgraded by 1 due to data saturation not being reached. Themes were under-developed and analysing further data would likely reveal new data

### 6 Table 12: Qualitative evidence profile: Theme 2. Routine care

Study information	n		CERQual asses	ssment of confidence in the evic	lence
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
Sub-theme 1: How to tell if the ba	by is doing well				
			Methodological limitations	No concerns	Moderate

<sup>3 2</sup>The confidence in the quality of the evidence was downgraded by 1 due to studies not critically reflecting on the researchers' roles in the research and did not describe the sampling method (Helder 2012)

<sup>&</sup>lt;sup>3</sup>The confidence in the relevance of the findings was downgraded by 2 because a portion of the babies were born full-term (Helder 2012)

Study informatio	n		CERQual ass	sessment of confidence in the ev	idence
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
3 (Burnham 2013; Dellenmark-	3 semi-	3 studies conducted in different countries	Relevance of findings	Moderate concerns <sup>1</sup>	
Blom 2016; Murdoch 2012)	structured interviews	(Canada; Sweden) among parents of preterm babies who are transitioning from the neonatal	Coherence of findings	No concerns	
	interviews	unit while receiving respiratory support reported that learning about their baby's physiological needs, such as breathing patterns, recognising signs of illness was important for parents to feel prepared for discharge.	Adequacy of evidence	No concerns	
Sub-theme 2: What to do if some	thing goes wrong				
1 (Burnham 2013) 1 semi- 1 study conducted in Ca	1 study conducted in Canada among parents of	Methodological limitations	No concerns	Moderate	
	structured interview	reported that parents wanted to know how to	Relevance of findings	No concerns	
	Interview		Coherence of findings	No concerns	
			Adequacy of evidence	Minor concerns <sup>2</sup>	
Sub-theme 3: Medical informatio	n specific to the b	aby's condition			
2 (Burnham 2013; Murdoch 2012)	2 semi-	ured and parents of preterm babies who are	Methodological limitations	No concerns	Low
	structured interviews		Relevance of findings	Moderate concerns <sup>1</sup>	
			Coherence of findings	No concerns	
			Adequacy of evidence	Minor concerns <sup>2</sup>	
Sub-theme 4: Physiological need	ls				
1 (Burnham 2013)	1 semi-	1 study conducted in Canada among parents of	Methodological limitations	No concerns	Low
structured interview		preterm babies who are transitioning from neonatal unit while receiving respiratory	Relevance of findings	Moderate concerns <sup>1</sup>	
	interview	support reported that parents wanted to know how	Coherence of findings	No concerns	
	to adjust routines from the NICU to use in the home. Knowing how to switch to on-demand feeding, how to know when volumes of feeding should be increased, and changes in breastfeeding patterns was important. Additionally, parents wanted to know how to position and swaddle babies when sleeping and what temperature the baby should be at.	Adequacy of evidence	Minor concerns <sup>2</sup>		

<sup>1</sup> The confidence in the relevance of the findings was downgraded by 2 because a portion of the babies were born full-term, had a congenital malformation, or did not require respiratory support (Dellenmark-Blom 2016; Helder 2012; Murdoch 2012)

1 <sup>2</sup> The confidence in the adequacy of the evidence was downgraded by 1 due to data saturation not being reached. Themes were under-developed and analysing further data would likely reveal new data and concepts.

### 3 Table 13: Qualitative evidence profile: Theme 3. Follow up

Study information			CERQual assessment of confidence in the evidence		
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
1 (Burnham 2013)	interview preterm babies who are transitioning from the neonatal unit while receiving respiratory support reported that having a list of paediatricians to	Methodological limitations	No concerns	Moderate	
		neonatal unit while receiving respiratory support	Relevance of findings	No concerns	
			Coherence of findings	No concerns	
		Adequacy of evidence	Minor concerns <sup>1</sup>		

<sup>4</sup> ¹The confidence in the adequacy of the evidence was downgraded by 1 due to data saturation not being reached. Themes were under-developed and analysing further data would likely reveal new data 5 and concepts.

### 6 Table 14: Qualitative evidence profile: Theme 4. Format

Study information			CERQual assessment of confidence in the evidence		
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
Sub theme 1: Timing					
1 (Burnham 2013)	1 semi-structured	1 study conducted in Canada among parents of	Methodological limitations	No concerns	Low
	interview	preterm babies who are transitioning from the neonatal unit while receiving respiratory support	Relevance of findings	No concerns	
		reported that preparation should begin on	Coherence of findings	Moderate concerns <sup>1</sup>	
	admission with the opportunity to follow up and ask questions throughout the baby's stay in the NICU. However, some noted that parents might not be able to absorb information if it is given too soon after admission.	Adequacy of evidence	Minor concerns <sup>2</sup>		
Sub theme 2: Resources					
3 (Burnham 2013; Helder	3 semi-structured	3 studies conducted in different countries	Methodological limitations	Minor concerns <sup>3</sup>	Low
2012; Murdoch 2012) interviews	(Canada; the Netherlands; Sweden) among	Relevance of findings	Moderate concerns <sup>4</sup>		
		parents of preterm babies who are transitioning from the neonatal unit while receiving respiratory	Coherence of findings	No concerns	
	support reported that regardless of format, resources should be up to date. Pamphlets on basic care at home, nurse-led group support and information sessions, online resources (links to	Adequacy of evidence	No concerns		

Study inform	ation		CERQual as	ssessment of confidence	in the evidence
Number of studies	Design	Description of theme or finding	Criteria	Assessment of Concerns	Overall Confidence
		websites or NICU parent networks), and books were mentioned as ideal ways to receive information.			
Sub theme 3: Personnel					
2 (Burnham 2013; Jonsson	interviews (Car	2 studies conducted in different countries (Canada; Sweden) among parents of preterm babies who are transitioning from the neonatal	Methodological limitations	Moderate concerns <sup>5</sup>	Low
2003)			Relevance of findings	No concerns	
un tha the	unit while receiving respiratory support reported that parents preferred learning how to care for their baby from the nurse, but wished to speak with physicians about the baby's health status.	Coherence of findings	No concerns		
		Adequacy of evidence	No concerns		

<sup>&</sup>lt;sup>1</sup>The confidence in the coherence of the findings was downgraded by 2 due to conflicting evidence (Burnham 2013)
<sup>2</sup> The confidence in the adequacy of the evidence was downgraded by 1 due to data saturation not being reached. Themes were under-developed and analysing further data would likely reveal new data

<sup>&</sup>lt;sup>3</sup> The confidence in the quality of the evidence was downgraded by 1 due to studies not critically reflecting on the researchers' roles in the research and did not describe the sampling method (Helder

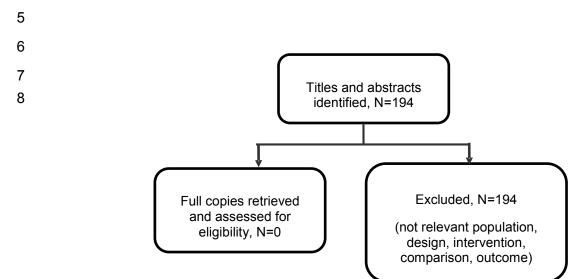
<sup>&</sup>lt;sup>4</sup> The confidence in the relevance of the findings was downgraded by 2 because a portion of the babies were born full-term, had a congenital malformation, or did not require respiratory support (Helder 2012; Murdoch 2012)

<sup>&</sup>lt;sup>5</sup>The confidence in the quality of the evidence was downgraded by 2 because researchers did not explain how the data presented were selected from the original sample to demonstrate the analysis process; insufficient data were presented to support the findings (Jonsson 2003)

# Appendix G - Economic evidence study selection

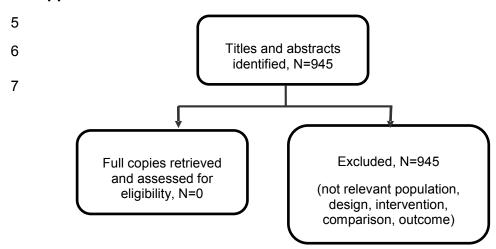
**Economic evidence study selection for question 7.1 What factors are important** 

- 3 when planning for the safe transition from the neonatal unit of a baby born
- 4 preterm, requiring respiratory support?



**Economic evidence study selection for question 7.2 What are the support and** 

- 2 information needs of parents and carers of preterm babies who are
- 3 transitioning from the neonatal unit while receiving ongoing respiratory
- 4 support?



### Appendix H – Economic evidence table

Economic evidence table for question 7.1 What factors are important when planning for the safe transition from the neonatal unit of a baby born preterm, requiring respiratory support?

4 No economic evidence was identified for this review.

Economic evidence table for question 7.2 What are the support and information needs of parents and carers of preterm babies 6 who are transitioning from the neonatal unit while receiving ongoing respiratory support?

7 No economic evidence was identified for this review.

### **Appendix I – Economic evidence profiles**

Economic evidence profiles for question 7.1 What factors are important when planning for the safe transition from the neonatal 3 unit of a baby born preterm, requiring respiratory support?

4 No economic evidence was identified for this review.

Economic evidence profiles for question 7.2 What are the support and information needs of parents and carers of preterm 6 babies who are transitioning from the neonatal unit while receiving ongoing respiratory support?

7 No economic evidence was identified for this review.

# Appendix J - Economic analysis

Economic analysis for question 7.1 What factors are important when planning for

- 3 the safe transition from the neonatal unit of a baby born preterm, requiring
- 4 respiratory support?
- 5 No economic analysis was undertaken for this review.

Economic analysis for question 7.2 What are the support and information needs

- 7 of parents and carers of preterm babies who are transitioning from the
- 8 neonatal unit while receiving ongoing respiratory support?
- 9 No economic analysis was undertaken for this review.

# Appendix K – Excluded studies

Excluded studies for question 7.1 What factors are important when planning for 3 the safe transition from the neonatal unit of a baby born preterm, requiring 4 respiratory support?

### **6linical studies**

Study	Reason for Exclusion
New strategy helps with discharging preemies, Discharge Planning Advisor, 2, 48-48, 2009	Conference abstract
Follow-up calls improve discharge instructions: contact helps with problems, reinforces opportunity, Hospital Case Management, 11, 108-109, 2003	Newsletter
Neonatal home program saves money, helps babies: NICU-experienced nurses manage babies' care, Hospital Home Health, 19, 67-71, 2002	Newsletter
Aloysius, Annie, Kharusi, Maryam, Winter, Robyn, Platonos, Karen, Banerjee, Jayanta, Deierl, Aniko, Support for families beyond discharge from the NICU, Journal of Neonatal Nursing, 24, 55-60, 2018	Study did not discuss babies with respiratory support
Annibale, D. J., Brown, M., Cox, T. H., Weiglein, C. A., Purohit, D., Discharge planning for very low birthweight infants, Journal - South Carolina Medical Association, 98, 145-54, 2002	Narrative review - no qualitative outcomes
Benavente Fernandez, I., Sanchez Redondo, M. D., Leante Castellanos, J. L., Perez Munuzuri, A., Rite Gracia, S., Ruiz Campillo, C. W., Sanz Lopez, E., Sanchez Luna, M., Hospital discharge criteria for very low birth weight newborns, Anales de Pediatria, 87, 54.e1-54.e8, 2017	Narrative review - no qualitative outcomes
Bowles, J. D., Jnah, A. J., Newberry, D. M., Hubbard, C. A., Roberston, T., Infants With Technology Dependence: Facilitating the Road to Home, Adv Neonatal CareAdvances in neonatal care: official journal of the National Association of Neonatal Nurses, 16, 424-429, 2016	Narrative review - no qualitative outcomes
Boykova, M., Transition From Hospital to Home in Parents of Preterm Infants: A Literature Review, The Journal of perinatal & neonatal nursing, 30, 327-348, 2016	Systematic review- studies assessed individually
Committee on, Fetus, Newborn,, Hospital discharge of the high-risk neonate, Pediatrics, 122, 1119-1126, 2008	Policy statement
Currie, G., Dosani, A., Premji, S. S., Reilly, S. M., Lodha, A. K., Young, M., Caring for late preterm infants: public health nurses' experiences, BMC NursBMC nursing, 17, 16, 2018	Did not discuss respiratory support
Dorling, J., Field, D., Follow up of infants following discharge from the neonatal unit: Structure and process, Early human development, 82, 151-156, 2006	Narrative review - no qualitative outcomes

Study	Reason for Exclusion
Favero, Luciane, Mazza, Verônica de Azevedo, Lacerda, Maria Ribeiro, Experience of a nurse in transpersonal caring for families of neonates discharged from the intensive care unit, Acta Paulista de Enfermagem, 25, 490-496, 2012	Population not relevant - interviews with parents
Fratantoni, K., Waters, D., Tuchman, L., Jiggetts, M., Soghier, L., Understanding the needs of families after NICU discharge to inform a peer support program, Developmental Medicine and Child Neurology, 58, 89-90, 2016	Conference abstract
Gambotto, S., Picca, M., The follow-up of preterm infant after discharge: Family pediatrician (FP) medical viewpoint, Italian Journal of Pediatrics. Conference: 71st Congress of the Italian Society of Pediatrics. Italy., 41, 2015	Did not discuss respiratory support
Goldenring, J. M., What to tell parents before they leave the hospital, Contemporary Pediatrics, 24, 52-59, 2007	Narrative review - no qualitative outcomes
Griffin, T., Abraham, M., Transition to home from the newborn intensive care unit: applying the principles of family-centered care to the discharge process, J Perinat Neonatal NursThe Journal of perinatal & neonatal nursing, 20, 243-9; quiz 250-1, 2006	Narrative review - no qualitative outcomes
Harrold, J., Schmidt, B., Evidence-based neonatology: Making a difference beyond discharge from the neonatal nursery, Current Opinion in Pediatrics, 14, 165-169, 2002	Randomised controlled trials - no qualitative outcomes
Hummel, P., Cronin, J., Home care of the high-risk infant, Advances in Neonatal Care, 4, 354-64, 2004	Narrative review - no qualitative outcomes
Ingram, J., Redshaw, M., Manns, S., Beasant, L., Johnson, D., Fleming, P., Pontin, D., "Giving us hope": Parent and neonatal staff views and expectations of a planned family-centred discharge process (Train-to-Home), Health ExpectationsHealth Expect, 20, 751-759, 2017	Did not discuss respiratory support
Ingram, J., Redshaw, M., Manns, S., et al.,, "Giving us hope": Parent and neonatal staff views and expectations of a planned family-centred discharge process (Train-to-Home), Health ExpectationsHealth Expect, 20, 751-759, 2017	Study did not discuss babies with respiratory support
Jefferies, A. L., Going home: Facilitating discharge of the preterm infant, Paediatrics and Child Health, 19, 31-42, 2014	Narrative review - no qualitative outcomes
Lucia, M. A., Mullaly, L. M., The discharge brunch: Reducing chaos and increasing smiles on the ob unit, Nursing for Women's Health, 13, 402-409, 2009	Not about safety needs
Miquel-Verges, F., Donohue, P. K., Boss, R. D., Discharge of Infants from NICU to Latino Families with Limited English Proficiency, Journal of immigrant and minority health, 13, 309-314, 2011	Study did not discuss babies with respiratory support

Study	Reason for Exclusion
Murch, T. N., Smith, V. C., Supporting Families as They Transition Home, Newborn & Infant Nursing Reviews, 16, 298-302, 2016	Study did not discuss babies with respiratory support
Pados, B. F., Safe transition to home: preparing the near-term infant for discharge, Newborn & Infant Nursing Reviews, 7, 106-113, 2007	Literature review
Pauline Voie, M., Tunby, J., Stromsvik, N., Collaboration challenges faced by nurses when premature infants are discharged, Nursing Children and Young PeopleNurs Child Young People, 30, 33- 38, 2018	Did not discuss respiratory support
Purdy, I. B., Craig, J. W., Zeanah, P., NICU discharge planning and beyond: Recommendations for parent psychosocial support, Journal of Perinatology, 35, S24-S28, 2015	Narrative review - no qualitative outcomes
Raffray, M., Semenic, S., Osorio Galeano, S., Ochoa Marin, S. C., Barriers and facilitators to preparing families with premature infants for discharge home from the neonatal unit. Perceptions of health care providers, Investigacion y Educacion en Enfermeria, 32, 379-92, 2014	Non-OECD country- Colombia
Raines, D. A., SIMULATION as Part of DISCHARGE TEACHING for Parents of Infants in the Neonatal Intensive Care Unit, Mcn-the American Journal of Maternal-Child Nursing, 42, 95-107, 2017	Study did not discuss babies with requiring respiratory support
Ronan, Susan, Liberatos, Penny, Weingarten, Sarah, Wells, Princess, Garry, Jessica, O Brien, Kathryn, Parher-Bozzuto, Sarah, Schultz, Stacy L., Nevid, Tracy, Development of Home Educational Materials for Families of Preterm Infants, Neonatal Network, 34, 102-112, 2015	Study did not discuss babies requiring respiratory support
Scherf, R. F., Reid, K. W., Going home: what NICU nurses need to know about home care, Neonatal Network: the Journal of Neonatal Nursing, 25, 421-425, 2006	Narrative review - no qualitative outcomes
Schlittenhart, J. M., Smart, D., Miller, K., Severtson, B., Preparing Parents for NICU Discharge: An Evidence-Based Teaching Tool, Nursing for Women's Health, 15, 484-494, 2011	Study did not discuss babies with respiratory support
Schlittenhart, Jean M., Discharge Essentials- 'The NICU Experience: Going Home', JOGNN: Journal of Obstetric, Gynecologic & Neonatal Nursing, 40, S28-S28, 2011	Poster presentation
Schuetz Haemmerli, N., Latal, B., Nelle, M., Stoffel, L., Cignacco, E., Transition to home (TTH) after preterm birth: Pilot testing of an advanced practice nurse (APN)-led new model of transitional care, European journal of pediatrics, 175 (11), 1854-1855, 2016	Conference abstract
Sherratt, A., Working within practice boundaries: developing a parent information leaflet in order to enhance the neonatal discharge examination, Journal of Neonatal Nursing, 7, 120-125, 2001	Conference abstract

Study	Reason for Exclusion
Sims, D. C., Jacob, J., Mills, M. M., Fett, P. A., Novak, G., Evaluation and development of potentially better practices to improve the discharge process in the neonatal intensive care unit, Pediatrics, 118 Suppl 2, S115-23, 2006	Study did not discuss babies with respiratory support
Smith, V. C., Young, S., Pursley, D. M., McCormick, M. C., Zupancic, J. A., Are families prepared for discharge from the NICU?, Journal of Perinatology, 29, 623-9, 2009	Quantitative design
Smith,V.C., Hwang,S.S., Dukhovny,D., Young,S., Pursley,D.M., Neonatal intensive care unit discharge preparation, family readiness and infant outcomes: Connecting the dots, Journal of Perinatology, 33, 415-421, 2013	Narrative review - no qualitative outcomes
Tamborelli, Geraldine, Welcome Aboard and Homeward Bound: The NICU Family's Journey for a Safe Voyage to Discharge, JOGNN: Journal of Obstetric, Gynecologic & Neonatal Nursing, 41, S36-S36, 2012	Conference abstract
Tearl, D. K., Cox, T. J., Hertzog, J. H., Hospital discharge of respiratory-technology-dependent children: Role of a dedicated respiratory care discharge coordinator, Respiratory Care, 51, 744-749, 2006	Quantitative design
Thorley, V., The Tenth Step of the BFHI: what midwives need to know about optimal support for mothers, post-discharge, Midwifery, 31, 829-833, 2015	Babies not preterm
Whyte, R. K., Neonatal management and safe discharge of late and moderate preterm infants, Seminars In Fetal & Neonatal MedicineSemin Fetal Neonatal Med, 17, 153-8, 2012	Narrative review - no qualitative outcomes
Whyte, R. K., Hilliard, R. I., Jefferies, A. L., Peliowski-Davidovich, A., Sorokan, S. T., Whyte, H. E. A., Safe discharge of the late preterm infant, Paediatrics and Child Health, 15, 655-660, 2010	Narrative review - no qualitative outcomes
Willis, V., Parenting preemies: a unique program for family support and education after NICU discharge, Advances in Neonatal Care, 8, 221-230, 2008	Narrative review - no qualitative outcomes
Woods, S., Riley, P., A role for community health care providers in neonatal follow-up, Paediatrics and Child Health, 11, 301-302, 2006	Editorial

<sup>1</sup> OECD: Organisation for Economic Co-operation and Development

### **Economic studies**

3 All economic studies were excluded at the initial title and abstract screening stage.

Excluded studies for question 7.2 What are the support and information needs of 2 parents and carers of preterm babies who are transitioning from the neonatal 3 unit while receiving ongoing respiratory support?

### **C**linical studies

ilical studies	
Study	Reason for Exclusion
How parents cope with the transition from the neonatal unit to home, Pract MidwifeThe practising midwife, 6, 34, 2003	Summary of Bissell 2003
Certain factors can help prepare families to bring infants home from neonatal intensive care units, AHRQ Research Activities, 11-11, 2010	Summary of Smith 2009
Adama, E. A., Bayes, S., Sundin, D., Parents' experiences of caring for preterm infants after discharge with grandmothers as their main support, J Clin NursJournal of clinical nursing, 05, 05, 2017	Systematic review - studies assessed individually
Alderdice, F., Gargan, P., McCall, E., Franck, L., Online information for parents caring for their premature baby at home: A focus group study and systematic web search, Health Expectations, 30, 30, 2018	Study did not discuss babies with respiratory support
Aydon, L., Hauck, Y., Murdoch, J., Siu, D., Sharp, M., Transition from hospital to home: Parents' perception of their preparation and readiness for discharge with their preterm infant, Journal of Clinical Nursing, 27, 269-277, 2018	Study did not discuss babies with respiratory support
Bain, J., Findlay, A., Greig, C., Parents' perceptions of discharge planning in Scottish neonatal units: areas for improvement, Journal of Neonatal Nursing, 9, 110-115, 2003	Conference abstract
Bissell, G., Long, T., From the neonatal unit to home: how do parents adapt to life at home with their baby?, Journal of Neonatal Nursing, 9, 7-12, 2003	Conference abstract
Boonmee, J., Pickler, R. H., Transition of preterm infants from hospital to home, Neonatal Intensive Care, 18, 22-25, 2005	Conference abstract
Boykova, M., Life After Discharge: What Parents of Preterm Infants Say About Their Transition to Home, Newborn and Infant Nursing Reviews, 16, 58-65, 2016	Study did not discuss babies with respiratory support
Boykova, Marina, Transition from hospital to home in parents of preterm infants: A literature review, J Perinat Neonatal NursThe Journal of perinatal & neonatal nursing, 30, 327-348, 2016	Systematic review - studies assessed individually
Broedsgaard, A., Wagner, L., How to facilitate parents and their premature infant for the transition home, International Nursing Review, 52, 196-203, 2005	Did not discuss babies require respiratory support
Callen, J., Pinelli, J., Atkinson, S., Saigal, S., Qualitative analysis of barriers to breastfeeding in very-low-birthweight infants in the hospital and postdischarge, Advances in Neonatal Care, 5, 93-103, 2005	Study did not discuss babies requiring respiratory support
Cescutti-Butler, L., Eliciting parental views regarding early discharge to home care for premature infants, Infant, 5, 23-27, 2009	Conference abstract

Study	Reason for Exclusion
Craig, Jenene Woods, The Neonatal Intensive Care Unit (NICU): Self-efficacy of caregiving and the lived experience of parents post-NICU discharge, Dissertation Abstracts International: Section B: The Sciences and Engineering, 76, No Pagination Specified, 2016	Dissertation
de Oliveira Dornasbach, Jéssica, Barbosa de Freitas, Hilda Maria, Santini Costenaro, Regina Gema, Rangel, Rosiane Filipin, Zamberlan, Claudia, Ilha, Silomar, NEONATAL INTENSIVE CARE: FEELING OF PARENTS AFTER DISCHARGE OF THE CHILD, Journal of Nursing UFPE / Revista de Enfermagem UFPE, 8, 2660-2666, 2014	Did not discuss babies requiring respiratory support
de Souza Lima Marski, Bruna, Custodio, Natália, Porto de Abreu, Flávia Corrêa, Falleiros de Melo, Débora, Wernet, Monika, Hospital discharge of premature newborns: the father's experience, Revista brasileira de enfermagem, 69, 202-209, 2016	Study did not discuss babies with respiratory support
Discenza, D., NICU parents' top ten worries at discharge, Neonatal network : NN, 28, 202-203, 2009	Editorial
Ericson, Jenny, Flacking, Renée, Udo, Camilla, Mothers' experiences of a telephone based breastfeeding support intervention after discharge from neonatal intensive care units: a mixed-method study, International Breastfeeding JournalInt Breastfeed J, 12, 1-9, 2017	Study did not discuss babies with respiratory support
Flacking, Renee, Ewald, Uwe, Starrin, Bengt, "I wanted to do a good job": Experiences of 'becoming a mother' and breastfeeding in mothers of very preterm infants after discharge from a neonatal unit, Social Science & MedicineSoc Sci Med, 64, 2405-2416, 2007	Study did not discuss babies with respiratory support
Fratantoni, K., Waters, D., Tuchman, L., Jiggetts, M., Soghier, L., Understanding the needs of families after NICU discharge to inform a peer support program, Developmental Medicine and Child Neurology, 58, 89-90, 2016	Conference abstract
Galeano, M. D., Carvajal, B. V., Coping in Mothers of Premature Newborns After Hospital Discharge, Newborn & Infant Nursing Reviews, 16, 105-109, 2016	Non-OECD country- Colombia
Garel, M., Dardennes, M., Blondel, B., Mothers' psychological distress 1 year after very preterm childbirth. Results of the EPIPAGE qualitative study, Child: Care, Health & Development, 33, 137-43, 2007	Studies did not discuss babies requiring respiratory support
Garfield, C. F., Lee, Y., Kim, H. N., Paternal and Maternal Concerns for Their Very Low-Birth-Weight Infants Transitioning From the NICU to Home, Journal of Perinatal & Neonatal Nursing, 28, 305-312, 2014	Study did not discuss babies requiring respiratory support
Griffin, J. B., The experience of mothers of a preterm infant during the first month after the infant's hospital discharge, Ph.D., 180 p-180 p, 2008	Conference abstract
Griffin, Junyanee Boonmee, Pickler, Rita H., Hospital-to-home transition of mothers of preterm infants, MCN:	Study did not discuss babies requiring respiratory support

Study	Reason for Exclusion
The American Journal of Maternal/Child Nursing, 36, 252-257, 2011	
Hemati, Z., Namnabati, M., Taleghani, F., Sadeghnia, A., Mothers' challenges after infants' discharge from neonatal intensive care unit: A qualitative study, Iranian Journal of Neonatology, 8, 31-36, 2017	Non-OECD country- Iran
Hutchinson, S. W., Parental experiences during their infants' transition process from a neonatal intensive care unit (NICU) to home, Ph.D., 143 p-143 p, 2002	Conference abstract
Hutchinson, S. W.,, Spillett, M. A.,, Cronin, M., Parent's experiences during their infant's transition from neonatal intensive care unit to home: a qualitative study, Qualitative Report, 17, 1-20, 2012	Study did not discuss babies requiring respiratory support
Ingram, J., Redshaw, M., Manns, S., Beasant, L., Johnson, D., Fleming, P., Pontin, D., "Giving us hope": Parent and neonatal staff views and expectations of a planned family-centred discharge process (Train-to-Home), Health ExpectationsHealth Expect, 20, 751-759, 2017	Study did not discuss babies requiring respiratory support
Krowchuk, Heidi, TOWARD EVIDENCE-BASED PRACTICE. Paternal and Maternal Concerns for Their Very Low-Birth-Weight Infants Transitioning from the NICU to Home, MCN: The American Journal of Maternal Child Nursing, 40, 134-134, 2015	Editorial
Larsson, C., Wagstrom, U., Normann, E., Thernstrom Blomqvist, Y., Parents experiences of discharge readiness from a Swedish neonatal intensive care unit, Nursing OpenNurs, 4, 90-95, 2017	Study did not discuss babies requiring respiratory support
Lee, T. Y., Lee, T. T., Kuo, S. C., The experiences of mothers in breastfeeding their very low birth weight infants, Journal of Advanced Nursing, 65, 2523-2531, 2009	Did not discuss babies requiring respiratory support
Lima Alcântara, Kamille, de Souza Brito, Larissa Ludmila Monteiro, da Silva Costa, Deiziane Viana, Melo Façanha, Ana Paula, Barbosa Ximenes, Lorena, Melo Dodt, Regina Cláudia, FAMILY GUIDELINES NEEDED FOR A SAFE HOSPITAL OF THE PREMATURE NEWBORN: INTEGRATIVE REVIEW, Journal of Nursing UFPE / Revista de Enfermagem UFPE, 11, 645-655, 2017	Non-OECD country- Brazil
Lopez,G.L., Anderson,K.H., Feutchinger,J., Transition of premature infants from hospital to home life, Neonatal Network - Journal of Neonatal Nursing, 31, 207-214, 2012	Narrative review- studies assessed individually
Mai, D., Wagner, L., 'Home Early Program' experiences of parents to premature infants' one year after discharge, Nordic Journal of Nursing Research & Clinical Studies / Vård i Norden, 25, 60-63, 2005	Study did not discuss babies with respiratory support
Mancini, A., While, A., Discharge planning from a neonatal unit: an exploratory study of parents' views, Journal of Neonatal Nursing, 7, 59-62, 2001	Conference abstract
McInroy, A., Kritzinger, A., A single case study of the communication development of a high-risk neonate,	Study did not discuss babies with respiratory support

Study	Reason for Exclusion
from birth to discharge from a neonatal intensive care unit, The South African journal of communication disorders, Die Suid-Afrikaanse tydskrif vir Kommunikasieafwykings. 52, 25-35, 2005	
Namnabati, M., Hemati, Z., Taleghani, F., Sadeghnia, A., Home-based care needs of preterm infants discharged early from the neonatal intensive care unit: A descriptive qualitative study, Iranian Journal of Neonatology, 8, 74-82, 2017	Non-OECD country- Iran
Nelson, V. S., Lewis, C. C., Ventilatory support: preparing for dischargeThe Howard H. Steel Conference on Pediatric Spinal Cord Injury, Rancho Mirage, California, December 3-5, 1999, Topics in Spinal Cord Injury Rehabilitation, 6, 16-24, 2000	Narrative review
Nilsson, I., Danbjorg, D. B., Aagaard, H., Strandberg- Larsen, K., Clemensen, J., Kronborg, H., Parental experiences of early postnatal discharge: A meta- synthesis, Midwifery, 31, 926-34, 2015	Study did not discuss babies with respiratory support
Osorio Galeano, Sandra Patricia, Ochoa Marín, Sandra Catalina, Semenic, Sonia, Preparing for post-discharge care of premature infants: Experiences of parents, Investigacion & Educacion en Enfermeria, 35, 100-108, 2017	Study did not discuss babies with respiratory support
Parker, Margaret, Kamholz, Karen, Brodsky, Dara, Zuckerman, Barry, Neonatal intensive care unit graduate home visit: A learning opportunity for pediatric interns, The Journal of Pediatrics, 161, 177-178, 2012	Quantitative design
Phillips-Pula, L., Pickler, R., McGrath, J. M., et al.,, Caring for a preterm infant at home: a mother's perspective, The Journal of Perinatal and Neonatal Nursing, 27, 335-344, 2013	Study did not discuss babies requiring respiratory support
Phillips-Pula, Lois, Caring for a Preterm Infant during the First Six Months Post NICU Discharge: A Mother's Perspective, Ph.D., 118 p-118 p, 2011	Dissertation
Premji, S. S., Currie, G., Reilly, S., Dosani, A., Oliver, L. M., Lodha, A. K., Young, M., A qualitative study: Mothers of late preterm infants relate their experiences of community based care, PLoS ONE, 12 (3) (no pagination), 2017	Only 10% of population had respiratory issues
Pritchard,M.A., Colditz,P.B., Beller,E.M., Parental experiences and preferences which influence subsequent use of post-discharge health services for children born very preterm, Journal of Paediatrics and Child Health, 44, 281-284, 2008	Study did not discuss babies requiring respiratory support
Quinn, Jenny, NICU Discharges: Parental and Nursing Perception of Readiness and Confidence, Advances in Neonatal Care (Lippincott Williams & Wilkins), 16, E10-E11, 2016	Conference abstract
Ra,J.S., Lim,J., Development and evaluation of a video discharge education program focusing on mother-infant interaction for mothers of premature infants, Journal of Korean Academy of Nursing, 42, 936-946, 2012	Quantitative design

Study	Reason for Exclusion
Rabelo, M. Z. S., Chaves, E. M. C., Cardoso, M. V. L., Sherlock, M. S. M., Feelings and expectations of mothers of preterm babies at discharge, Acta Paulista de Enfermagem, 20, 333-337, 2007	Study did not discuss babies with respiratory support
Raffray, M., Semenic, S., Osorio Galeano, S., Ochoa Marin, S. C., Barriers and facilitators to preparing families with premature infants for discharge home from the neonatal unit. Perceptions of health care providers, Investigacion y Educacion en Enfermeria, 32, 379-92, 2014	Study did not discuss babies with respiratory support
Raines, D. A., Mothers' stressor as the day of discharge from the nicu approaches, Advances in Neonatal Care, 13, 181-187, 2013	Quantitative design
Reyna, B. A., Pickler, R. H., Thompson, A., A descriptive study of mothers' experiences feeding their preterm infants after discharge, Advances in Neonatal Care, 6, 333-40, 2006	Study did not discuss babies with respiratory support
Sankey, J. J., Brennan, S., Living with difference: caring for a premature baby at home, CollegianCollegian (Royal College of Nursing, Australia), 8, 10-8, 2001	Study did not discuss babies requiring respiratory support
Scherf, R. F., Reid, K. W., Going home: what NICU nurses need to know about home care, Neonatal Network: the Journal of Neonatal Nursing, 25, 421-425, 2006	Narrative review
Sneath, N., Discharge teaching in the NICU: are parents prepared? An integrative review of parents' perceptions, Neonatal network: NN, 28, 237-246, 2009	Literature review - studies assessed individually
Toral-López, Isabel, Fernández-Alcántara, Manuel, González-Carrión, Pilar, Cruz-Quintana, Francisco, Rivas-Campos, Antonio, Pérez-Marfil, Nieves, Needs Perceived by Parents of Preterm Infants: Integrating Care Into the Early Discharge Process, J Pediatr NursJournal of pediatric nursing, 31, e99-e108, 2016	Study did not discuss babies with respiratory support
Torok, L. S., The lived experience of receiving and caring for a technology-dependent infant in the home, Ph.D., 201 p-201 p, 2001	Dissertation
Turner,M., Winefield,H., Chur-Hansen,A., The emotional experiences and supports for parents with babies in a neonatal nursery, Advances in Neonatal Care, 13, 438-446, 2013	Study did not discuss babies requiring respiratory support
Viera, C. S., de Mello, D. F., de Oliveira, B. R. G., The follow-up of the family of the premature and low-birth-weight infant discharged from the NICU: a literature review, Online Brazilian Journal of Nursing, 7, 1-1, 2008	Non-OECD country- Brazil; Non-English language- Portuguese
White, Zachary, Gilstrap, Cristina, Hull, Jennifer, "Me against the world": Parental uncertainty management at home following neonatal intensive care unit discharge, Journal of Family Communication, 17, 105-116, 2017	Study did not discuss babies with respiratory support
Willis, V., Parenting preemies: a unique program for family support and education after NICU discharge, Advances in Neonatal Care, 8, 221-230, 2008	Did not discuss babies requiring respiratory support

Study		Reason for Exclusion
Badiee, Discharç Care Ur	adeh, V., Namnabati, M., Valizadeh, L., Z., Professional's Efforts to Simultaneously ge Infants and Mother from Neonatal Intensive it in Iran: A Qualitative Study, Journal of Caring SJ Caring Sci, 2, 39-45, 2013	Non-OECD country- Iran

### **E**conomic studies

2 All economic studies were excluded at the initial title and abstract screening stage.

# Appendix L - Research recommendations

Research recommendations for question 7.1 What factors are important when

- 3 planning for the safe transition from the neonatal unit of a baby born preterm,
- 4 requiring respiratory support?
- 5 What is best practice around discharge planning for preterm babies on respiratory
- 6 support?

#### 7 Why this is important

- 8 For preterm babies on a neonatal unit, parents' involvement and responsibility for their
- 9 baby's care increases over time to include, for example, giving medication or testing the
- 10 placement of the feeding tube prior to giving milk. However, in many neonatal units, issues
- 11 directly related to medical equipment, such as respiratory support, are often solely managed
- 12 by the nursing and medical teams until the time of discharge. At present, it is generally
- 13 agreed that best practice around discharge planning should include a partnership between
- 14 hospital and community teams and follow-up planning and ensure that parents are able to
- 15 confidently and safely use specialist equipment. However, there was insufficient evidence to
- 16 identify specific elements that contribute to 'best practice' around discharge planning for
- 17 preterm infants on respiratory support, thus necessitating further research. Evidence-based
- 18 options into this area would facilitate and improve the safety of discharges, improve parental
- 19 experience and may also reduce hospital costs by allowing earlier discharge and reducing
- 20 readmission rates.

#### 21 Table 15: Research recommendation rationale

Research question	'What is best practice around discharge planning for preterm babies on respiratory support?
Importance to 'patients' or the population	Parents need training in a timely manner regarding the safe use of specialist equipment prior to discharge to ensure that they feel empowered and skilled to care for their preterm baby on respiratory support at home.  Early liaison between hospital and community agencies to improve communication, including arranging follow-up appointments and may facilitate earlier and safer discharge, which would be beneficial to the baby, family and may reduce hospital costs through lowering readmission rates.
Relevance to NICE guidance	Medium priority  Two qualitative studies were identified from the NICE evidence review on the topic that highlighted important factors that contribute to safe discharge. However, the quality of the evidence was low due to methodological limitations affecting the risk of bias and adequacy of the findings. Future NICE guidance would benefit from more robust studies specifying which aspects contribute to best practice around discharge planning for preterm babies on respiratory support.
Relevance to the NHS	Earlier discharge of preterm babies on respiratory support from the neonatal unit will result in cost savings to the NHS, especially if there are fewer readmissions.
National priorities	Further research is needed to identify which factors most significantly contribute to best practice around discharge planning and which improve outcomes for babies, including morbidity and mortality.
Current evidence base	There is currently no strong evidence to identify the key factors which form best practice around discharge planning.
Equality	Currently, there is inconsistent practice around discharge planning for preterm babies on respiratory support. Babies and their families have an equal right to

Research question	'What is best practice around discharge planning for preterm babies on respiratory support?
	high quality, evidenced-based care practices which will improve the neonatal experience for the family and improve the baby's outcome.
Feasibility	Qualitative studies in this area are feasible. Randomised controlled trials and cohort studies are unlikely to be feasible to answer the qualitative nature of the research question.

#### 1 Table 16: Research recommendation modified Population, context, outcome table

olinary team (MDT) caring for preterm ed home on respiratory support fessionals caring for preterm babies d important in regard to the safe neonatal unit to a care setting (e.g. the ne parents/carers, as opposed to be main caregivers.
d important in regard to the safe neonatal unit to a care setting (e.g. the ne parents/carers, as opposed to ne main caregivers.  rviews or cohort studies:
medical, specialist nursing and therapy
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e care provider that will be providing arge
or or key worker, such as named
mpetencies of parents
lence of parents
n environment
charge summaries
-structured interviews with healthcare single-centred or multi-centred
e o o o o

2

Research recommendations for question 7.2 What are the support and

- 4 information needs of parents and carers of preterm babies who are
- 5 transitioning from the neonatal unit while receiving ongoing respiratory
- 6 support?
- 7 No research recommendations were made for this review.

# **Appendix M – Qualitative quotes and excerpts**

Qualitative quotes and excerpts for question 7.1 What factors are important when

- 3 planning for the safe transition from the neonatal unit of a baby born preterm,
- 4 requiring respiratory support?

5 Table 17: Theme 1: Social Support

Study ID	Evidence	
Subtheme 1: Friends and Family		
Feeley 2013	"Instrumental support from family and friends, including meal preparation and assistance with household tasks and child care diminished demands, and this in turn provided time for fathers' involvement."	
Feeley 2013	"'I have my in-laws they are always there, whether it be for moral or practical support."	
Smith 2012	"Parents commonly engaged family and friends for both pragmatic and emotional support Friends and family members with medical backgrounds and/or NICU experience were particularly emotionally supportive, often serving as key information resources for many parents."	
Smith 2012	"The family support was also there. You know they were always coming and making sure that there was food in the house and helping to clean."	
Ardal 2011	"Communication issues can arise as family members and friends struggle to provide support mothers reported that they felt a lack of empathy for and understanding of the depth of their own anxiety, and of the reality of what their baby was going through"	
Ardal 2011	"NICU mothers reported the added burden of educating and reassuring those in their support network who had no familiarity with the situation: 'Mothers who have gone through the same experience are the only persons who understand us and what we went through.'"	
Smith 2012	"Family and friends who had little familiarity with the NICU were frequently perceived as unhelpful or even burdensome. These individuals often had concerns that reawakened parents' own worries."	
Smith 2012	"'It was hard to talk to people that weren't in the immediate family, that weren't day-to-day following the babiesThey had no experience with preemies and you have to start from the beginningThat put a lot of stress on me."	
Subtheme 2: Co	ounselling	
Falck 2016	"Psychological and spiritual support provided by the interdisciplinary NICU was extremely valuable. Some mothers sought mental health services outside the hospital."	
Falck 2016	"I see a counselor because the whole birth process was overwhelming and traumatic. I think I have post-traumatic stress syndrome."	
Feeley 2013	"Some fathers turned to online chat rooms dedicated to parents experiencing their infant's hospitalisation and used the concrete advice acquired there to guide their involvement."	
Subtheme 3: Pa	artners	
Falcking 2016	"Some mothers described feeling proud when watching their partners bond with their infant, as well as when they received encouragement and affirmation from their partners when providing care."	
Falcking 2016	"'I cleaned him and changed him more confidently 2nd time My partner was very impressed with me!!!'"	

Feeley 2013	"Some couples developed a routine around caregiving activity, carving out a specific role for the fatherNonetheless, some mothers overtly discouraged fathers' involvement."
Heinemann 2013	"The participants also described supporting each other as partners as extremely important. Some of the fathers described their strategy of pushing aside their own feelings in favour of the mother, who they considered in greater need of emotional support."
MacDonald 2007	"When fathers were later observed in the NICU, they were actively engaged in the care of their infants to the extent that they could, and supported their spouse by assisting in diapering, taking temperatures, weighing and bathing the infants and helping to position the infants for feeding."
MacDonald 2007	"These out-of-town families received extra support by being house at Easter Seal House, a non-profit housing unit located within blocks of the hospital, and in the case of one family being allowed to park their fifth-wheel motor home close to the hospital."
Pohlman 2009	"'I don't need my wife to be upset. I know that after giving birth to a baby that a woman goes through the postpartum blues and it was real hard on herBeing at home every day and not being in the NICU and when she gets in the NICU she don't want to leave, which I don't want to either, but I know I have to. It's real hard."
Smith 2012	"'Every night when we left, [my partner and I] talked about itI think that was good. It was constant communication. And so we weren't afraid to tell each other how we were feeling or what we were feeling. I think that kind of got us through it."
Smith 2012	"Being at home, parents were able to reconnect with each other and any older children."
Smith 2012	"Partners also lessened material strains by dividing responsibilities related to work, household activities, and being in the NICU."

### 1 Table 18: Theme 2: Staff Support

Study ID	Evidence	
Subtheme 1: Fa	Subtheme 1: Facilitating Parents in Participating in Care	
Cescutti-Butler 2003	"Caring involves behaviour from staff that will facilitate parent involvement in their infant's care and work with parents as equal partners by sharing knowledge, values, responsibilities, outcomes and visions."	
Cescutti-Butler 2003	"Parents did not always feel they were equal partners in careFor instance, one of the fathers interviewed felt uncomfortable about obtaining information from his baby's charts, and would only look at the charts when the staff were not present."	
Gibbs 2016	"Becoming actively engaged in the provision of tube feeds assisted in achieving a sense of occupational engagement rather than being a spectator in their baby's care."	
Guillaume 2013	"Parents described their ability to have contact with the baby linked to the nurses' conduct, because it made the contact possible (or not) and pleasant (or not)."	
Heinemann 2013	"Increased participation strengthened their self-esteem and parental role, which increased their motivation to be present."	
Heinemann 2013	"The staff had shown patience when parents did not feel ready for learning a procedure and had invited the parents to learn step by step and gradually take over most of the infant's care. The participants had felt encouraged by positive feedback on their performance of caregiving activities."	
Wigert 2014	"Not being allowed to participate in the ward round involving their child to hear some of the information that emerged was described as being deprived of their parental role."	

Study ID	Evidence	
Wigert 2014	"It was weird because it was my child who was lying there, so I wanted to know	
· ·	what they said'."	
Wigert 2014	"When nurses provided information, encouragement to become involved and coaching, involvement was fostered."	
Subtheme 2: Fa	Subtheme 2: Facilitating Transition into Parenting Role	
Cescutti-Butler 2003	"Providing mothers and fathers with the opportunity to see and touch their infants in the delivery room or prior to transport may reduce stressful feelings. However, when this is not possible, minimizing the delay in time between birth and the first visit may be helpful for mothers."	
Cescutti-Butler 2003	"Once they were more familiar with the NICU, parents often felt they had little control of their own lives let alone of their baby, 'The nurses like do more, it's my baby and I wanted to do more - they were doing stuff that I knew I could do and I would have liked to have been asked to do."	
Cescutti-Butler 2003	"Having an element of control and feeling integrated will help parents acclimatize to the strange environment that having a baby in a NICU presents."	
Feeley 2013	"Fathers were involved in decision-making about the infant's care when staff shared information and provided the opportunity to ask questions."	
Feeley 2013	"Yeah, getting involved in the decision process was easier at night. I could talk and ask questions."	
Feeley 2013	"Fathers also described how nurses acted as role models. They carefully observed nurses providing care to their infant and learned how to do so, thus facilitating their involvement."	
Feeley 2013	"Explicit verbal encouragement from nursing staff or their partner helped fathers to begin to partake in caregiving activities."	
Feeley 2013	"If the nurses were passing by and there was any improvement needed, then they would make suggestions."	
Guillaume 2013	"After the delivery, many mothers reported having had to wait a day or two before being authorized to see their baby, for health reasons. The photograph of the baby and the NICU caregivers' visit to the mother's room were the two factors described as very useful for feeling closer to the child in these cases."	
Guillaume 2013	"It was good to have this picture. I had two feelingsI was glad and sad at the same timesad because she was premature."	
Guillaume 2013	"Most parents described themselves as dependent on the staff to care for their baby and therefore necessarily subject to its authority"	
Guillaume 2013	"'As we are in a place where everything is managed by others and we don't know, we have the impression that we have to ask for permission to touch him'"	
Neu 1999	"The nurses that we had really like me doing it [kangaroo care] because of her improved oxygen statsThey were really wonderful about me wanting to do it. I would have done it anyway, but it was easier because they were supportive and they made a fuss and thought it was wonderful that I did it."	
Neu 1999	"The lack of appropriate support from the nursing staff also influenced the decision of some parents to discontinue skin-to-skin care."	
Smith 2012	"Participating in the care of their child was a critical coping strategyActivities such as diaper changes and feeding provided concrete skills and a sense of "knowing" their child, which boosted self-confidence and combated insecurities about their role as parents."	
Smith 2012	"'It went from not holding her for a week to being able to hold her every couple days, and then slowly becoming a very active participant in her day. Just learning how to feed her, and hold her correctly, and bathe her.'"	
Smith 2012	"Staff provided informal and formalized training on providing care, as well as opportunities for parents to practice. In addition, staff provided a welcoming	

Study ID	Evidence
-	environment and specific encouragement that parents needed to overcome anxieties about handling their child."
Smith 2012	"The nurses here don't care how much time I spend [trying] to change one diaperthey still let me try andgive me lots of tipsI learn a lot here."
Smith 2012	"One parent noted that it was helpful for staff to facilitate less intrusive visits by enforcing strict visiting rules with guests. Another said, the staff made note of a hospital Web site for NICU parents to provide standardized updates to friends and family, without having to interact individually."
Smith 2012	"They told me about a website where I could post pictures of [my baby] and give daily updates. Because one of the things that was very draining was people asking all the time, "how's the baby, how's the baby?""
Smith 2012	"Often what gave parents confidence to leave was their belief that the NICU staff had not only medical expertise but also affection for their child."
Wigert 2014	"The parents felt they were taken notice of when the staff responded to their need for information by listening attentively and calmly answering their questions Parents also appreciated occasions when staff conveyed sensitivity to their need for consolation."
Wigert 2014	"'We noticed that they were keeping an eye on the situationThey were hanging around, they were there and started talking a bit and could tell if you wanted to talk.'"
Gibbs 2016	"Their engagement was focused on both reclaiming involvement in caregiving occupations they anticipated prior to the baby's birth and participating in alternative occupations that still allowed them to experience closeness with their infant."
Subtheme 2: Co	ommunication to Reduce Stress
Falck 2016	"Transparent communication that provided information in a personalized and sensitive manner facilitated development of trusting relationships and minimized maternal anxiety"
Falck 2016	"Family meetings were valued as a forum for communication, shared decision making, and for parents to advocate for their child."
Falck 2016	"'Dr. *** was really good about keeping us up to speed each daywhen we didn't see her in person she called us, she was wonderful about itwe like it up front, not being blindsided'"
Falck 2016	"I need good communication. I need to feel like our beliefs, what we expect and what need, are being respected."
Flacking 2016	"Knowing how care was provided (e.g. procedures, technical devices, staff routines), what was expected of them as parents, and understanding the infant's signals enabled parents to relax and be in the presentThe knowledge of their infant's medical status, gained through the communication with and by spending time with their infant, made parents feel more confidence in the parental role."
Flacking 2016	"'During the medical round when the doctor asked, how are your babies doing? I was very proud when I was able to tell them about my observations about the babies.'"
Gibbs 2016	"It was the intervention of a nurse that encouraged them to have hope for David's survival. Nell shared what the nurse said to them: 'It's ok to have hope for him despite the medical circumstances, you're his parents and it's ok to have hope for him'"
Gibbs 2016	"The importance of receiving information about their infant's condition underpinned all communications that the parents undertook with NICU staff."
Gibbs 2016	"Facilitation was often twofold; it was about provision of information in a way that was accessible to the parents and the creation of opportunities for parents to

Study ID	Evidence
	participate in parenting occupations: 'It was good to be encouraged to do that [diaper changing] by the nurses, and for them even to show you how to do it.'"
Guillaume 2013	"Some fathers reported that the staff spoke to them less than the mother, which seemed normal or more rarely, frustrating in their role of father."
Guillaume 2013	"In the delivery room, mothers reported that they had needed explicit communication - words - about the baby's health, to be reassured that he was really alive: 'As soon as I woke up, I asked: He's not dead? He's not dead?"
Guillaume 2013	"Fathers and mothers both insisted on the need to warn them of changes such as intubation, changing the room, or placing a catheter."
Guillaume 2013	"'If there is no problem with the examinations, the doctors don't come to tell you the resultsIf they tell us the results right away, whether they are good or bad, we know them and we can start to enjoy the child."
Guillaume 2013	"The telephone was described as a way of staying linked to the baby from home. Most parents reported feeling reassured by ritualized calls morning and eveningSome described calls more worrisome than reassuring, in cases where the phone rang repeatedly with no answer, and stressed the importance of always giving news, even succinctly."
Guillaume 2013	"The fathers accompanied their child from the delivery room but frequently described an anxious wait at the ward entrance: 'I would have liked it, when I arrived in the unit, for someone to come out and say to me, 'Your daughter is in good hands, we are going to take care of her,' just to reassure me that everything was all right."
Heinemann 2013	"The staff conveyed hope, without giving false expectations, which was perceived as essential."
Holditch 2000	"The most helpful action was a nurse or other health care provider caring competently for the infant: 'She thought maybe he was getting another little virus or something. She never said NEC. I don't think wanted to scare me until she had something to scare me about."
Pohlman 2009	"Fathers sometimes felt frustrated because the nurses did not fully inform them as to what they could or could not do with their infants during visits."
Wigert 2014	"The parents felt that conversation with staff created the opportunity for a break from a reality that was difficult to live with."
Wigert 2014	"The parents felt invited to communicate when the staff took the time to explain the child's care and treatment to them and invited them to participate in the child's care. The encouragement to care for the child strengthened parental bonding with the child."
Wigert 2014	"There is a communication together with us, [they] answer questions, provide support, tell us what we can do and what they will help with."
Wigert 2014	"The parents felt that they were dependent on communication with the staff to get information about their child and to get support from the staff to participate in their child's care."
Wigert 2014	"It would have felt good to have a review discussion there, what happened after the birthbecause I have no idea of what happened there."
Wigert 2014	"The parents felt that, in their communication with the staff, they adapted to each member of staff's personality and their availability for conversation. They learned the different responsibilities of the various professionals and what roles they had in communicating with parents."
Wigert 2014	"It could be difficult for parents to understand the doctor's information during the conversation, in which case the parents had to take the initiative to ask the nurse for an explanation of what had been said."

Study ID	Evidence
Wigert 2014	"'Communication between the maternity ward and Neonatal could be improved. They had failed to schedule the hearing test. They didn't know if it was the maternity ward or Neonatal that booked it, so I had to check it myself."
Subtheme 4: In	terpersonal Relationships
Cescutti-Butler 2003	"Caring attributes: 'Being genuinely concerned with youMade you feel that your baby was important to themThe nurse would be there for you and give you a bit of confidenceYou sort of got rapport with them, you feel more confident about asking questions'"
Cescutti-Butler 2003	"Relationships with families are central; skilled crisis intervention is needed, parents need assistance to interact with their very ill infants."
Cescutti-Butler 2003	"The mother's relationship with the nurse was the single most important influence on motheringThe nurse was a key focus maybe because they were a constant feature of their [the parents'] time in the NICU."
Gibbs 2016	"NICU staff were perceived as 'gatekeepers' to the infants, so this was an element of the NICU experience that parents took very seriously."
Gibbs 2016	"The development of collaborative parent-staff relationships that underpin the provision of family-centered care also provides the platform for supporting parents to participate in meaningful caregiving occupations."
Heinemann 2013	"Several participants expressed the need for confirmation of their concerns and for being treated with empathyThey appreciated that the staff fulfilled their role of being available for the parents and infants."
Holditch 2000	"'The nurses meant a lot to us. The nurses were real special. They would answer our questions and be straight with us. And say, 'Well, this could happen.' They were real supportive.'"
Holditch 2000	"I think about the social worker a lot. I remember her face and the good words that she usedShe talked to me a lot. She helped me a lot. She got me in contact with a lot of people who could be of help to me."
Jackson 2003	"In a sense the mothers were negotiating their role both with their infants with the hospital personnel as the infants were gaining strength and independence from medical equipment and as the nurses were encouraging and supporting their entry into complex feeding and nurturing routines."
Smith 2012	"Staff encouraged parent friendships by facilitating coffee hours or scrapbooking sessions as well as by arranging more structured relationships with graduate parents."
Smith 2012	"I would have found [it] helpful if I would've been put in touch with somebody whose child was in the exact same situation."
Wigert 2014	"The parents felt supported when they were met with compassionIt was comforting to meet the human being behind the professional role: 'The doctor listened, the doctor was also a personshe showed that she was also a fellow human being in the whole thing.'"
Subtheme 5: Co	ontinuity of Care
Falck 2016	"For mothers, familiarity with nursing staff facilitated trust and confidence in nurses' abilities to care for their child. Assigning continuity attending facilitated smoother transitions and promoted maintenance of a consistent care plan."
Falck 2016	"'I wish there were consistency in care between doctorsI feel they switch way too often and they don't always know the baby. They have different opinions on what's the right thing to do, and it gets frustrating.'"
Gibbs 2016	"The inconsistency in advice received from the nursing staff was problematic and had the potential to erode trust between parents and staff."
Guillaume 2013	"Both parents also reported the supportive value of a visit by the paediatrician or the nurse to the mother's room, telling them about the baby's health."

Study ID	Evidence
Guillaume 2013	"'For 3 days I wasn't able to see my daughter. The doctors came to see me and the nurse also. I found that encouraging: I was very glad to get news about her."
MacDonald 2003	"Two of the mothers expressed frustration over conflicting approaches and contradictory advice around feeding strategies. Much of the frustration observed was the result of gaps between theory and practice as nurses and lactation consultants gave advice to the mothers who were struggling"
Pohlman 2009	"'Almost every day there's a different nurse in there And I can tell just by how the nurse acts and everything whether she's gonna be gentle with her or whatever. Usually they are pretty rough and I just get nervous.'"
Pohlman 2009	"Building rapport, and therefore trust (what would seem to be an essential ingredient to feeling emotionally supported), was difficult when fathers saw a new face almost every day. The lack of consistent caregivers was on the minds of several fathers and they found this 'discomforting.'"
Pohlman 2009	"He felt that having consistent nurses also allowed him the opportunity to get to know the nurses "a little bit betterwhich made it easier to talk with them, makes it easier for you to think 'well, what can I ask this person'?'"
Wigert 2014	"Having a designated doctor and nurse contact in the NICU for their child provided continuity and felt important to the parents."
Wigert 2014	"'We had our contact nursesit felt really nice because we could come to them with these extra requests.'"

# 1 Table 19: Theme 3: Parent-to-Parent Support

Study ID	3: Parent-to-Parent Support	
Subtheme 1: Shared Experiences		
Ardal 2011	"Mothers tended to talk to parent-buddies: 'I would talk to her [the buddy] in more detail rather than to other people because she has had the same experience."	
Ardal 2011	"Sharing culture and language facilitates the process of communicating feelings: 'In the same language, we can understand everything; also, the feelings, I believe, are the same in the same culture."	
Ardal 2011	"Sharing a culture fostered an understanding not only of the preterm birth experience but also of its cultural context."	
Ardal 2011	"Buddies were able to normalize their experience and reassure them that their feelings were natural under the circumstances."	
Ardal 2011	"The parent-buddies reduced the new mothers' experience of isolation related to both preterm birth and language and cultural differences."	
Ardal 2011	"Judicious use of the buddy's own experience in response to the mother's concerns appeared to have a profound impact. One mother reported, after hearing a buddy's account of her son, who had been so sick and was now healthy: 'That changed my world completely. From there on, I was a person who could do it.'"	
Smith 2012	"Engagement with other NICU parents was a coping strategy that several parents found helpful because it provided them with information and perspective. Graduate NICU parents whose children had faced similar medical issues were especially helpful."	
Smith 2012	"'Sometimes you want to talk to someone who's been there, who's experiencing the exact same thing."	
Smith 2012	"You're a member of a club and no one likes to be a member of that club, and no one likes to talk about it. And all of a sudden (sic) when people start to share it, you don't feel so alone in it. And I, I think it's just really helpful, and I think it's	

Study ID	Evidence
	really hard to be the first one to kind of share or to break through that wall, but once you do it's really supportive."
Gibbs 2016	"The fostering of relationships with other parents seemed to stem from the mutuality of parent experiences This support was highly valued by parents, and the shared camaraderie with other parents was a noticeable loss once their infants were discharged."
Subtheme 2: Obs	servational Learning
Feeley 2013	"In the two open-spaced NICUs where this study took place, fathers saw other parents holding or diapering their infants, and this led to the realisation that involvement was possible and permitted."

# 1 Table 20: Theme 4: Hospital Environment

Study ID	Evidence	
Subtheme 1: Need for Privacy		
Falck 2016	"Physical space limited the ability of mothers to feel comfortable expressing emotionsdespite use of screens to partition the infant's space. In addition, participants emphasized that this lack of privacy impacted confidential communication with families."	
Falck 2016	"'It was touch and go, and we weren't sure if she was going to make it, so I am sobbing and everybody is walking by.'"	
Falck 2016	"'It would be helpful to be presented with a choicecan we step outside to talk about this it's good to have that option so the whole NICU doesn't hear what's going on with your kid."	
Flacking 2016	"Parents in Sweden and Finland highlighted the importance of feeling and being a family when alone with their infant. This was facilitated when parents had their own room on the NICU which they could bring the infant into: 'Yesterday, it was also a wonderful moment when the father came and we were allowed to be alone in the room, as a family, without nurses or other parents."	
Heinemann 2013	"It became more complicated to take turns in performing KMC, as the parent who was not providing KMC had no private space to get some rest."	
Jackson 2003	"The mothers wanted privacy and wished to be with the baby in a private area."	
Neu 1999	"'To take off her clothes and mine wasn't anything I could do at the hospital. I'm not that modest, but I would have been right in the middle of that room!'"	
Neu 1999	Conversely parents who discontinued skn-to-skin holding in the hospital were quite cognizant of a sterile, noisy, busy, or crowded environment, inadequate privacy, loss of control, and lack of nursing support that precluded a gratifying skin-to-skin experience.	
Neu 1999	"It seemed hard to do because everything was so rush, rush in there."	
Subtheme 2: Frie	endly, Homelike Environments	
Feeley 2013	"Fathers felt that because the appearance of the NICU did not resemble the home environment, this deterred their involvement."	
Feeley 2013	"One father thought that this was particularly important in the step-down unit and explained, 'More space and more chairs and nice décor - there is a bit of soul would help."	
Feeley 2013	"Open visiting policies allowed fathers unlimited access to the NICU. As one father noted, 'I can come here whenever I want - 24 hours."	
Heinemann 2013	"Parents who had the opportunity to stay overnight in a family room in the NICU felt that it simplified their life and made it possible to perform KMC for large parts of the day by taking turns."	

Study ID	Evidence
Heinemann	"Several parents attributed difficulties of being present during nights to a high
2013	level of illumination and the noise from alarms and staff chatting in loud voices."
Subtheme 3: Fee	lings of Security or Insecurity
Falck 2016	"Re: open room design - Mothers described a feeling of safety, comfort, and security provided by the proximity of multiple caregivers in the room at all times"
Falck 2016	"'The NICU is not a privacy placeI don't want it closed off because he is so unpredictablesome days I need to look across the room and say, "Hey, what is going on with him?'"
Feeley 2013	"One father described how the 'tubes' and 'wires' made him reluctant to provide care for his infant, stating 'I was always afraid, you know I tried once, she started desaturating and the nurse said "Let me take her from your arms.""
Holditch 2000	"Sometimes, the appearance of the entire NICU - equipment, infants, and families - overwhelmed the mothers 'The first time that their monitors went off, it terrified me! But the staff there was really good about explaining what was going on.'"
Holditch 2000	"Medical complications could further impair the appearance of the infant: 'When he was in the ICU, they had him paralyzed then. He just wasn't moving then, because he had the respirator on. They don't look like real babies when they're paralyzed. Almost like they're dead."
Guillaume 2013	"To be at ease with their child, the parents reported that they needed to understand the environment: 'The more I know, the more I am reassured. What I want to know are the upper and lower limits, because I watch the monitor and I have the impression I understand."
Subtheme 4: Par	ticipating in care
Gibbs 2016	"The NICU environment has a significant impact on participation in parenting occupations The presence of lines and the types of respiratory equipment limited how much of their infant they could actually see."
Gibbs 2016	"The incubator served to reinforce the critical nature of their infant's condition and placed significant limitations on their involvement in providing nurturing for their infant."
Gibbs 2016	"'Sometimes you'd feel like you were just sitting there watching everybody do everything for him.'"
Gibbs 2016	"The various policies and unwritten ground rules, also shaped parents' experiences, including visiting restrictions imposed during infection outbreaks, the ability to engage in skin-to-skin contact based on the infant's respiratory support needs, and the exclusion of parents from the unit during ward rounds"
Flacking 2016	"For many parents, holding the infant and/or being skin-to-skin was the first time they felt their infant was theirs By being physically close the parent-infant bond was strengthened."
Flacking 2016	"Doing simple and ordinary parenting tasks made them feel that the infant was theirs; changing diapers, putting on clothes and washing and bathing their infant were significant events."
Flacking 2016	"Some parents also specifically referred to how their increasing involvement in caretaking duties had had a simultaneous influence on their growing sense of commitment and connection."
Flacking 2016	"'During the following days, the commitment and connection strengthened, especially when I got to spend all three nights at the neonatal unit next to my baby although he was on a monitor.'"
MacDonald 2003	"Mothers whose infants were on respirators or C-PAP mentioned the difficulty of accessing infants for skin-to-skin cuddles and in seeing their infant's face. The

Study ID	Evidence
	monitors and monitoring devices made the babies less accessible and the routines more challenging."

#### 1 Table 21: Theme 5: Employment Support

able 21. Theme of Employment Support		
Study ID	Evidence	
Financial Suppor	Financial Support	
Feeley 2013	"Paternity or other types of employment leaves allowed for greater presence, contributing to greater involvement."	
Feeley 2013	"When my company gave me two weeks off, I was here Monday to Friday"	
Jackson 2003	"Four of the fathers were on parental leave during the hospitalization and were able to participate in the care of the infants. However, others had problems getting time off from work, which depended to a great extent on the attitudes of their employers."	

2

Qualitative quotes and excerpts for question 7.2 What are the support and

- 4 information needs of parents and carers of preterm babies who are
- 5 transitioning from the neonatal unit while receiving ongoing respiratory
- 6 support?

#### **Support Needs**

## 8 Table 22: Theme 1: NICU staff support

Study ID	Evidence	
Subtheme 1: Being	Subtheme 1: Being able to contact about questions	
Burnham 2013	"Contact with the NICU postdischarge was helpful during the transition home. One mother explained that, if she had questions or concerns, 'it would be useful to speak to somebody who actually took care of [my baby]."	
Dellenmark-Blom 2016	"Providing opportunities for telephone availability and regular but successively fewer home visits, the PNS reinforced feelings of not having been abandoned after discharge from NICU."	
Jonsson 2003	"Having accessibility- In this conception the parents described the accessibility to the home care team, usually by telephone. The scope ranged from a passive to an active contact."	
Lindberg 2009	"Parents expressed that they still had a lot of thoughts and questions after discharge, so it could have provided vital support to still have this access and thereafter decide when to return it (video conferencing equipment)"	
Lindberg 2009	"Another advantage was that parents could talk together with a number of staff at the same time; much like a group conversation, something that is not possible by telephone."	
Lindberg 2009	"Further on, a condition for the set up was that staff's reserved time for the meeting, at least the first days after they came back home."	
Murdoch 2012	"Mothers expressed apprehension about being the sole infant caregiver at home and questioned whether they could manage without medical support."	
Subtheme 2: Build	ling confidence	
Dellenmark-Blom 2016	"Parents thus needed the PNS for confirmation that their infant is healthy and for reassurance that they are performing well as parents"	

Study ID	Evidence
Dellenmark-Blom 2016	"Parents encountering the same nurse in both the NICU and NHC setting believed this further helped the processing of memories from the NICU period because the nurse had interacted with them in several contexts and knew their journey"
Murdoch 2012	"Health professionals provided reassurance regarding infant health and gave mothers confidence in their caretaking abilities."
Subtheme 3: Feeling	ng ready
Burnham 2013	"Positive feedback from the NICU staff also enhanced parental readiness for discharge."
Jackson 2003	"The mothers did not feel prepared for the baby's discharge from the hospital and for their new responsibility, and felt insecure about caring for the baby. This was especially true for those with the smallest infants."
Jackson 2003	"Fathers did not feel prepared to bring the infant home from the hospital, and did not feel that they had taken part in the decision about discharge."
Lindberg 2009	" parents felt the need to feel ready to return home instead of being sent home with the infant too early."
Subtheme 4: Self c	are
Burnham 2013	"Parents also reported a need to be reminded of the ever-present risk of postpartum depression (PPD) for parents."
Subtheme 5: Trust	and security
Burnham 2013	"Parents felt more secure when HCPs they came into contact with postdischarge had a complete health history of their infant."
Dellenmark-Blom 2016	"Parents' sense of security was anchored by the PNS (Paediatric Nursing Specialist) providing both time and opportunity to calmly discuss new questions and concerns that invariably arise on return to the family home."
Dellenmark-Blom 2016	"Parents believed that parenthood was facilitated by the emotional understanding and educational support provided by the PNS (Paediatric Nursing Specialist)"
Helder 2012	"A slow development of parents' trust during the stay in the NICU, their sense of being betrayed by a sudden and unwanted transfer, and a rebuilding of confidence during the stay in the SCN."
Jackson 2003	"One mother, who still worried about the baby's breathing, did not feel she got adequate support and changed to a different nurse."
Jackson 2003	"Mothers of the smallest infants remained in frequent contact with the neonatal ward as well as with the CHS, which made them feel secure."
Lindberg 2009	"Knowing that they can contact staff- Parents expressed feelings of security just by having this access, which was the most essential for them, regardless of how often they actually used the equipment (video conferencing)"
Lindberg 2009	"They felt secure knowing that the staff could, by both listening to and seeing them and their infant, easily make an appraisal of the situation."

## 1 Table 23: Theme 2: Familial support

Study ID	Evidence
Murdoch 2012	"Family support during the transition from hospital to home helped the mothers build confidence in their caretaking abilities. Families helped by distributing competing responsibilities and allowing the mother to focus on caring for her infant."
Jackson 2003	"The fathers described feeling guilty because they could not participate in caring for the baby or supporting the mother as much as they wanted."

Study ID	Evidence
Jackson 2003	"All the descriptions reflected a struggle to find a balance between work and family life."
Jonsson 2003	"The scope ranged from received to perceived support. We have got very good support from our parents and our siblings."

## 1 Table 24: Theme 3: Other parents

Study ID	Evidence
Jackson 2003	"Most of the women expressed a need for contact with mothers in the same situation, whom they had met in parent education sessions arranged by the CHS."

## **Information needs**

#### 3 Table 25: Theme 1: Preparation

Study ID	Evidence
Subtheme 1: How to prepare the home	
Burnham 2013	"Questions remained about whether any specialized supplies or equipment were needed for a preterm infant: what size diapers and bottle nipples to purchase, what type of thermometer to use, and whether adaptations to the car seat are required to accommodate a preterm infant. Several parents thought that providing this information early on in the infant's hospitalization would be helpful, allowing time to locate and purchase the items that were not necessarily readily available."
Burnham 2013	"Several post-discharge parents were not aware that they should limit the amount of visitors in their home or that their infant should not be taken out in public right away and would have liked to have this information before discharge."
Subtheme 2: H	lands-on experience in the NICU
Burnham 2013	"The need for hands-on experience for parents to feel ready for discharge. Parents recounted how experiences such as taking on their infant's care in the safe environment of the NICU were paramount in increasing their readiness for discharge."
Burnham 2013	"When performing a skill for the first time, parents preferred to have the nurse demonstrate before trying themselves under the nurse's supervision."
Burnham 2013	"Staying overnight in the parent room and taking on full caregiving responsibility of their infant helped parents get a sense of what life might look like at home. Encountering unanticipated situations while in the NICU was also seen as helpful."
Burnham 2013	"Cues from the NICU environment such as their infant's bed location in the unit and how staff spoke about their infant also affected parents' perceptions of their infant's readiness for discharge."
Burnham 2013	"Parents appreciated when efforts were made to simulate the home environment in the NICU."
Burnham 2013	"Interventions that provide parents with a better sense of what life at home might look like, such as taking the infant off of all monitors and switching the infant to ondemand feeding were seen as helpful steps in the transition from NICU to home."
Jackson 2003	"They [the fathers] missed the practical guidance at the hospital and said they would have liked to have had more direct supervision during the hospital stay: 'Coming home was very strange. I felt insecure, and in fact it felt like this was our first baby.'"
Subtheme 3: T	ransportation from NICU
Helder 2012	"Parents regretted the lack of consistent policy on joining their infant in the ambulance"

## 1 Table 26: Theme 2: Routine care

Study ID	Evidence
Subtheme 1: Phys	siological needs
Burnham 2013	"Infant feeding in particular was a topic parents wanted information about during the hospitalization as well as at home."
Burnham 2013	"How to schedule feedings at home; how to coordinate twins on the same feeding schedule at home; how to switch to on-demand feeding; is it normal for a baby to eat more at home; how to know when the volume of feedings should be increased; Changes to expect in a baby's breastfeeding behavior as he/she develops"
Burnham 2013	"Several parents did not know how they would be able to ensure that their infants were meeting their daily caloric needs and maintaining their weight at home. This concern was especially prevalent for breastfed infants."
Burnham 2013	"Which routes should be used and what are the acceptable ranges? How often should a baby's temperature be taken at home? What type of thermometer to buy. How warm should a baby's room be? How should a baby be dressed?"
Burnham 2013	"The infant's sleeping arrangements was also a topic that raised many questions."
Burnham 2013	"Where should a baby sleep? Should a baby be positioned on a 30 degree-34 angle while sleeping? How many blankets should be used? How to swaddle a baby. What to do if a baby will not sleep."
Subtheme 2: How	to tell if baby is doing well
Burnham 2013	"Parents wanted to know what physiological markers could be observed at home to ensure their infant was healthy. Parents questioned if they should purchase equipment such as scales and respiratory monitors to continue monitoring their infant at home."
Burnham 2013	"Preterm infants' breathing patterns were a concern for several parents, particularly for those whose infant had respiratory complications."
Burnham 2013	"Preparing for unexpected events was a key topic parents required information about to enhance their readiness for discharge."
Burnham 2013	"Recognizing signs of illness was also identified by parents as important to prepare for discharge."
Dellenmark-Blom 2016	"The adjustment to routines that differed from those learnt in the NICU is, at first, difficult."
Murdoch 2012	"Mothers commonly expressed apprehension that their infants would die under their care at home, and about possible negative sequelae of prematurity or illnesses."
Subtheme 3: Wha	t to do if something goes wrong
Burnham 2013	"Parents wanted information about what to do if their infant's health status was compromised at home. Specific concerns ranged from emergency situations (e.g., infant stops breathing) to less urgent problems (e.g., infant has a cold, is constipated, or has diarrhoea)."
Burnham 2013	"Some parents felt strongly that an infant cardiopulmonary resuscitation course should be part of discharge preparation to be better equipped to handle an emergency situation."
Subtheme 4: Med	ical information specific to baby's condition
Burnham 2013	"Parents wanted information specific to their infant's health condition and preferred speaking directly with HCPs."
Murdoch 2012	"Three of nine mothers had infants requiring daily medical procedures. These mothers expressed concerns about performing the procedures at home."

# 1 Table 27: Theme 3: Follow up

Study ID	Evidence
Burnham 2013	"Information about postdischarge follow-up was important to help parents feel ready for discharge. Parents whose infant met the age and weight criteria to be followed by the in-hospital follow-up clinic wanted to know how to make an appointment, how many visits there would be, and the duration of follow-up."
Burnham 2013	"Immunizations, including information about the vaccine as well as scheduling, was a topic parents wanted more information about before discharge in order to make the appointments."
Burnham 2013	"List of pediatricians to contact while their infant was still hospitalized"
Burnham 2013	"Concerns about potential risks the infant could face in the future were common Parents wanted to know what they could expect after leaving the NICU and if their infant would be delayed in reaching developmental milestones."

#### 2 Table 28: Theme 4: Format

Study ID	Evidence
Subtheme 1: Ti	ming
Burnham 2013	"Some parents felt that preparation should begin on admission; others felt that a few days to one week before discharge would be adequate and providing it earlier would be useless because 'that information is going to get lost anyway.' Most parents agreed that waiting until the day of discharge was too late."
Burnham 2013	"For many parents, receiving information once was sufficient; however, having the opportunity to follow up and ask questions was essential"
Subtheme 2: Ro	esource
Helder 2012	"Most parents had only received limited information from NICU nurses orally and from an (outdated) photo book and felt ' unprepared for what to expect."
Murdoch 2012	"Mothers obtained information and gained knowledge from numerous external resources, which provided guidance on care and health of their infants. Many mothers described using books on infant development."
Murdoch 2012	"Six suggested pamphlets on basic care of infants at home; two proposed help with transport for infants on supplemental oxygen; three suggested a few more nights with full infant responsibility before discharge; and five suggested a support group for mothers postdischarge."
Burnham 2013	"Face-to-face conversation was a favored method of receiving information because it allowed parents to ask questions and clarify elements they did not understand. Informal conversations with nurses at the infant's bedside were also valuable means of receiving information. Written material was suggested by some parents but only to supplement information already discussed in person. Parents suggested that books about premature infants should be stored in the NICU to facilitate access to information while visiting their infant."
Burnham 2013	"The CNS-led group support and information sessions for parents offered at the NICU were another preferred means of acquiring information."
Burnham 2013	"Online resources (e.g., website, NICU parent network) were also suggested methods of providing information."
Subtheme 3: Personnel	
Burnham 2013	"Nurses were seen as the ideal HCPs to help parents prepare for discharge, since they 'are the ones who take care of the baby, they know better than everyone else.' Parents wanted more information from the physicians about their infant's health status."

Study ID	Evidence
Burnham 2013	"The CNS-led group (Clinical Nurse Specialist) support and information sessions for parents offered at the NICU were another preferred means of acquiring information."
Jonsson 2003	"It was important to the parents to have access to the knowledge and advice of the healthcare professionals at the hospital and to the practical experiences of their relatives."

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