CLINICAL GUIDELINE

Breastfeeding

Scope (Staff): Nursing and Medical Staff
Scope (Area): NICU KEMH, NICU PCH, NETS WA

This document should be read in conjunction with this DISCLAIMER

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Our aim is to maximise breastfeeding outcomes by promoting consistency in care and information for mothers who intend to breastfeed their infants, both preterm and term.

All staff should complete BFHI eLearning Packages: Module 1-4

Baby Friendly Health Initiative (BFHI) Educational Tools

Other resources to assist staff learning
  • ‘Follow Me Mum’ Video
  • The Key to Successful Breastfeeding pamphlet
Breast milk is specifically designed for human infants with both the mother and infant gaining physically and emotionally from the breastfeeding experience. Breast milk has the correct biochemical constituents necessary for optimal growth and development and assists in the prevention of respiratory and intestinal infections and the onset of allergies. Premature infants may require individually tailored fortification of human milk to reach recommended intakes and acceptable growth rates.

**Health Benefits for the Infant**

- Greater enteral feeding tolerance and more rapid achievement of full enteral feeds.
- Reduced risk and severity of infection both short and long term.
- Reduced risk and severity of necrotizing enterocolitis.
- Reduced risk of atopic disease for infants with family risk histories.
- Enhanced retinal maturation and visual acuity.
- Enhanced developmental and neurocognitive outcomes.
- Greater physiological stability during breastfeeding compared to bottle feeding.

**Health Benefits for the Mother**

- Breastfeeding stimulates the uterus to contract, thus aiding the involution process and reducing the risk of postpartum haemorrhage.
- Breastfeeding reduces the risk of breast cancer and epithelial ovarian cancer.
- Psychological significance of making a unique contribution to the care of their preterm infant by expressing and breastfeeding.

**Breastfeeding the Preterm Infant**

- Any mother planning to breastfeed who is separated from her infant needs to start expressing to establish lactation.
- The first expression should be in the first hour after delivery of her infant and then around every 3-4 hours, culminating in 7–8 times each day including at least once overnight.
- Ensure that prior to the mother’s discharge from hospital, she is provided with information regarding expressing, labelling, transporting and storage of breastmilk, loan/purchase of breast pumps and related equipment, and access to expressing facilities within the nursery, and of the community-based breastfeeding support and information services available.
- Use the FICare Communication Board for the infant to ensure that communication between staff and parents is facilitated.
- Mothers are to be provided with continuing access to support and information about the establishment and maintenance of lactation, breast and nipple care, and positioning and attachment. Breastfeeding is to be introduced at a pace that matches the infant’s energy reserves and ability to suck.
- Infants and their mothers are individuals and therefore these are guidelines only. Advice should be sought from the Lactation Consultants if breastfeeding challenges are evident.
- Introductory suck feeds are to be breast feeds; early breastfeeding is less physiologically stressful than is early bottle feeding. The infant has a greater ability to control the flow of milk during breastfeeding, and has more stable patterns of oxygenation.
Breast experiences with kangaroo care can begin from 28 – 30 weeks in all infants including those on CPAP and HHF. Increasing suck strength may occur from 30 – 32 weeks. From 34 weeks gestation onwards, the ability to co-ordinate sucking, swallowing and breathing improve as the infant matures. Breast experiences can occur as often as the Mother is available and are not limited to once per day. Be guided by the infant’s state and cues e.g. If awake can offer a chance to breastfeed. If the infant shows signs of tiredness then allow the baby to rest and complete the feed with the gastric tube.

**Signs of readiness to suck may include**
- Sucking on a feeding tube or pacifier.
- Rooting reflex.
- Swallowing own saliva.
- Putting their fist in their mouth.
- Resisting gavage feeds.

Encourage the mother to have skin to skin contact with her infant, preferably for at least 30 minutes before a breastfeed (the infant may be tube fed in this position if required). Infants in skin-to-skin contact make rooting and mouthing movements and move toward the nipple, while mothers frequently report feelings of milk ejection, leaking, and expression of larger milk volumes following skin to skin cuddling. Initial introductions to the breast often involve non-nutritive sucking (ideally just after the mother has expressed), with a gradual transition to nutritive sucking.

It is preferable that orogastric inserted tubes be replaced with nasogastric inserted tubes when the infants shows increased readiness to suck as this facilitates the correct sucking action. Where this is not possible, it is preferable that the OGT is taped to the top lip.

**Breastfeeding the Term Infant**
For information on establishing lactation, breastfeeding the well term infant, breastfeeding challenges or suppression of lactation refer to Obstetrics & Gynaecology Clinical Practice Guidelines on breastfeeding.

**Positioning and Attachment**

**Positioning** relates to the way in which the infant is held in relation to the mother’s body whilst breastfeeding.

**Attachment** refers to whether the infant has enough areola and breast tissue in the mouth. There needs to be sufficient breast tissue in the infant’s mouth in order for effective sucking and milk transfer to take place. This initiates effective sucking and swallowing.

After the feed, the mother’s nipple should look as it did before - not compressed, elongated or misshapen.

Assisting mothers to consistently achieve correct positioning and attachment of their infant at the breast results in greater success at breastfeeding. Positioning at the breast is a learned skill acquired from instruction and/or observation of correct technique. Mothers should be shown positioning and attachment using a “hands off” approach so that they develop confidence and skill in their ability to independently position and attach the infant.

**Recommended Positions for the Mother**
- Assist the mother to find a feeding position she finds comfortable. This position should support her back and shoulders i.e. straight back, relaxed shoulders.
- Ensure the mother’s feet are supported i.e. her lap is flat. A footstool may be beneficial particularly for shorter women.
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- Facilitate privacy. Position chair away from the room and/or use privacy screens if required by the mother.
- Ask the mother if she has a preference for which breast she would like to begin with.

Position of the Infant

- Preterm infants should be breast fed in a position that gives support to the head and neck such as, across the lap (transitional hold), or the underarm (football) hold. As the head of the preterm infant is heavy in relation to the musculature of the neck, the base of the head needs to be supported. Undirected head movements can easily collapse the airway resulting in apnoea and bradycardia.
- Consider the use of a thin, firm pillow to help support the positioning of the infant at the breast and/or protect a tender abdomen post LUSCS. Check with the mother to determine if the pillow is required.
- If the mother's breasts are full, the mother needs to express in order to offer her infant a softer breast with a smaller amount of available milk. This aids attachment to the breast and can help reduce the fast flow with the initial milk ejection of her milk. As the infant learns to breast feed, more milk can be left in the breast.
- To help the infant attach to the breast, the mother can shape her breast using her thumb and fingers ('C' hold). See ‘The Key to Successful Breastfeeding' pamphlet.

Correct attachment will usually take more than one attempt.

Signs of Correct Positioning and Attachment

1. Lips widely flanged and sealed around the breast.
2. Infant's chest in close contact with mother's chest.
3. Head is slightly extended, with the chin pressed into the breast.
4. The nose is free without the mother holding back her breast.
5. Absence of clicking sounds.
6. Absence of dimpling in infants cheeks.
7. Movement of whole jaw with muscular movement visible around ears.
8. Once infant is attached and sucking effectively there is no nipple pain or trauma.

Signs of Poor Attachment
Refer to Obstetrics & Gynaecology Clinical Practice Guideline - Breastfeeding Challenges: Nipple Trauma.

Using Nipple Shields for Preterm Infants

Until recently it was believed that nipple shields contributed to a reduction in milk transfer and possibly a reduction in supply. Recent research however has shown that the use of nipple shields for preterm or small infants, who are unable to maintain attachment, can reduce infant fatigue and increase milk transfer and duration of breastfeeding.

Not all mothers of preterm infants will benefit from the use of a nipple shield. If the use of a nipple shield is being considered, refer to the Lactation Consultant / Midwife and discuss the problem prior to implementation. The mother's milk supply and corrected gestational age of the infant needs to be considered.
Recommended Use
Nipple shields can facilitate attachment of the infant to the breast in:

- Preterm infants who are unable to sustain correct attachment at the breast (constantly slip off the breast).
- Preterm infants who fall asleep as soon as they are attached and are unable to maintain regular nutritive sucking.
- Flat or inverted nipples with repeated failure to achieve attachment with an alert infant.

Key Points

- Ensure mother has an adequate milk supply.
- Ensure mother is aware of, and agrees to the use of a nipple shield.
- Choose appropriate size shield for the infant’s mouth.
- At KEMH place nipple shield referral in Lactation Consultants Book in SCN2 or 2West.

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1. To fit shield, ask the mother to express a few drops of milk into the shield and around the areola. The shield should be applied centrally over the nipple, the cut out area being placed where the infant’s nose will be positioned. Stretch the shield to allow the nipple to be drawn in.

2. The nipple shield should be washed in hot soapy water, rinsed and dried after each use and stored in a clean container under the infant’s cot.

3. Document indication for use and its effectiveness in the infant’s notes; review daily the need to continue.

Preterm infants will require the nipple shield until they are able to maintain attachment for adequate milk transfer for the whole feed. This may be until approximately term corrected age or longer.

Try to give direct contact with breast before and after nipple shield use.

If nipple shields are used at discharge ensure appropriate follow-up is arranged e.g. Neonatal Home Visiting Nurse (for follow-up program/special needs babies), KEMH Breastfeeding Centre or Child Health Nurse.

Also refer to Obstetrics & Gynaecology Clinical Practice Guideline - Use of Nipple Shields.

Increasing the Number of Breastfeeds

It is important to increase breastfeeding opportunities as the infant demonstrates increasing energy reserves. Increase at a pace that matches the infant’s ability to attach and suckle at the breast. The infant will demonstrate increased interest in sucking by eliciting signs of readiness to suck.

Signs of readiness to suck may occur as early as 28-30 weeks gestation but generally occurs from 34 weeks gestation onwards as the ability to coordinate sucking, swallowing and breathing improves around this time. Discuss with the mother the need to increase the number of breastfeeds. Explain semi-demand feeding and the need for her to be available
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as her infant may be interested in feeding again less than 3 hours following a breastfeed. Ensure the mother is aware of the hospital crèche facilities, parent lounge, and dining room meals.

It is preferable that orogastric tubes be replaced with nasogastric tubes when the infant shows increased readiness to suck and there are no respiratory symptoms. This facilitates the correct sucking action and is likely to occur around 30-32 weeks. Where this is not possible, the orogastric tube should be taped to the top lip.

To facilitate discharge and encourage the ability to suck it is appropriate to give bottle feeds of expressed breast milk to the infant if the mother is unavailable to breastfeed when her infant is awake and demanding a suck feed e.g. at night. Generally this can occur from 34 weeks only after consent from the mother. The choice of teat for infants who will be breastfed is the Calmita Teat. See Nutrition: Bottle Feeding a Breastfeeding Infant.

Most infants should have a bottle overnight by 35 weeks (or in the daytime if the mother unable to visit for any prolonged period).

Always negotiate and review the feeding plan with the mother and document in the medical records and on the FlCare Communication Board. If a breastfeeding plan has been developed, review changes in this plan with the Lactation Consultant.

Breastfeeding Challenges

For the following breastfeeding challenges, refer to Obstetrics & Gynaecology Clinical Practice Guidelines on Breastfeeding Challenges:

- Nipple Trauma
- Management of Mastitis
- Breast Abscess
- Block Ducts
- Oversupply
- Flat or Inverted Nipples
- Breast Engorgement

- Refer mothers and infants experiencing breastfeeding challenges to the SCN Lactation Consultant (KEMH), Midwife (3B) or a member of the nursing staff experienced with breastfeeding.

- It is expected that mothers will be expressing up to 7 times in 24 hours and obtaining 500-800 mL/day by the end of the 2nd week in order to establish and maintain their supply. If they have a low supply, refer to lactation consultant.

A breastfeeding care-plan is to be used for long term infants and those with special needs.

Include the following:

- The timing of breastfeeds.
- Specific requirements for positioning and attachment e.g. transitional hold, use of a footstool, nipple shield, chair selection
- The need for top-up feeds following breastfeeds.

Preparation for Discharge

Prior to discharge home ensure that the mother has the skills and knowledge to enable her to continue breastfeeding her infant at home.

Ask the Mother the Following Questions

1. Do you understand the transition process to all breast feeds at home?
2. Can you breastfeed your infant independently preferably 3 hourly / to demand and demonstrate correct positioning and attachment?
3. Do you understand the need to express for comfort after breastfeeding, until supply = demand?
4. Can you recognise the effective nutritive sucking pattern of your infant and the signs that he/she is getting enough breast milk?
5. Do you understand the concepts of milk ejection reflex, infant led feeding, supply = demand?
6. Have you developed realistic expectations of your infant’s needs and feeding behaviours in the home environment and understands that he/she will feed frequently at home i.e. eight times in a 24 hour period?
7. Are you aware of effective settling techniques?
8. Have you had the option to room in with your infant for a minimum period of 24 hours prior to discharge?
9. Can you competently bottle feed your infant, if required?

Ensure contact details are given for community-based breastfeeding supports such as
- KEMH Breastfeeding Centre (for infants born at KEMH).
- SCN Home Visiting Nurse (for NICU follow-up program/special needs infants).
- Local Child Health Nurse.
- Australian Breastfeeding Association.

Mother’s with a supply in excess of her infant’s needs, will need to wean expressing to avoid blocked ducts and possible mastitis. They may need to hire a breast pump for home use. Discuss with lactation consultant, milk room nurse (KEMH) or discharge coordinator.

Related CAHS internal policies, procedures and guidelines

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<td>Nutrition: Bottle Feeding a Breastfeeding Infant</td>
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References and related external guidelines

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Breastfeeding

Useful resources (including related forms)

Baby Friendly Health Initiative (BFHI) Educational Tools

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