

Guideline Responsibilities and Authorisation

Department Responsible for Guideline	NICU		
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Document Facilitator Title	Lactation Consultant		
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Document Owner Title	CNM		
Target Audience	Nurses		

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Guideline Review History

Version	Updated by	Date Updated	Summary of Changes
01	Robyn Hill	May 2019	New guideline as part of the NEC (Necrotising Enterocolitis) bundle of care
02	Robyn Hills	November 2022	3-yearly review

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1 Overview

1.1 Purpose

To guide NICU staff in the support of mothers to establish and maintain an expressed milk supply.

1.2 Scope

Te Whatu Ora Waikato staff working in NICU.

1.3 Patient / client group

Families whose babies are in NICU.

1.4 Background

- In the absence of a fully breastfed baby due to premature birth or sickness a mother will need to use alternative methods to establish and maintain a milk supply.
- To establish and maintain a milk supply a mother is required to start expressing within the first 6 hours post birth and establish a plan for regular expressing.
- Parents should be informed that human breast milk is the recommended best care for infants especially for fragile infants. Exclusive components within human milk promote the development of the immature immune system while reducing chronic inflammation, the primary challenge in fragile infants. It has been identified that bioactive compounds in both maternal colostrum and mature human milk provide the infant with multiple cytokines, chemokines, growth factors and immunoglobulins. These factors support both anti-infectious properties and anti-inflammatory properties, which aids in the regulation of the neonatal inflammatory response, reducing primary and secondary tissue loss.
- Providing human milk to all infants is an impossible task without engaging the parents in the process and educating them about how human milk is a prevention measure for necrotising enterocolitis (NEC). Feeding decisions require informed parents who understand the value of human milk, early initiation of pumping, consistent pumping and adequate support.

2 Clinical Management

2.1 Competency required

- Registered Nurses who have completed NICU Level 2 orientation
- Enrolled Nurses who have completed NICU Level 2 orientation and are working under the direction and delegation of a registered nurse

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2.2 Equipment

- Expressing Kit
- Electric Breast pump
- Expressing diary
- Expressing Care Plan document

2.3 Guideline

- The Expressing Care Plan should be used to guide NICU staff to support parents with the decision to provide breast milk and with the initiation and maintenance of an expressed milk supply.
- The Expressing Care Plan will be placed in the front of every baby's folder and will be checked by every nursing shift.
- Early contact with the postnatal care team ensures that the mother has commenced expressing within the first 6 hours post-delivery, ideally within the first hour.
- Ongoing review of expressing ensures that a mother is assisted to maintain an ongoing satisfactory milk supply.

3 Patient information

- "Breastfeeding your sick or premature baby" pamphlet
- "Breast milk expressing pack" pamphlet

4 Audit

4.1 Indicators

- An Expressing Care Plan is sighted in the front of every baby's folder in NICU.
- All mothers commence expressing within 6 hours post-delivery (unless there are
 extenuating circumstances such as the mother declining to express or maternal health,
 e.g. mother in ICU)
- All mothers receive the information pamphlets see section 3.

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IF THIS DO	IF THIS DOCUMENT IS PRINTED, IT IS VALID ONLY FOR THE DAY OF PRINTING Page 3 of 5								



Guideline

Expressing Breastmilk in the Newborn Intensive Care Unit (NICU)

5 Evidence base

5.1 References

- C Battersby, et al, (2014) The impact of a regional care bundle on maternal breast milk
 use in preterm infants: outcomes of the East of England quality improvement
 programme. Arch Dis Child Fetal Neonatal Ed 99 p395-401
- Nancy A. Garofalo, Michael S. Caplan, (2019) Oropharyngeal Mother's Milk, State of the Science and Influence on Necrotizing Enterocolitis, *Clinics in Perinatology*, 46 p77-88
- Sheila M. Gephart, Katherine M. Newnam, (2019) Closing the Gap Between Recommended and Actual Human Milk Use for Fragile Infants. What Will It Take to Overcome Disparities? Clinics in Perinatology 46 p39-50

5.2 Associated Te Whatu Ora Waikato Documents

- <u>Ūkaipo/Breastfeeding Step 1 Breastfeeding policy</u> (0132)
- <u>Ūkaipo/Breastfeeding Step 5 Maintaining Lactation</u> (5465)
- <u>Labelling</u>, handling, storage, transport and administration of human milk in New Born Intensive Care Unit (NICU) (2771)
- Enteral Feeding: standardisation of feeding in Newborn Intensive Care Unit (NICU)
 (1196)

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IF THIS DOCUMENT IS PRINTED, IT IS VALID ONLY FOR THE DAY OF PRINTING Page 4 of 5							





Appendix A – NICU Expressing Care Plan Document (Sample only)

	hi 6221	ing care	pian – Keep i	in fror	it of re	d folder	
	SE SE	Actio	on		✓ (tick)	Date	Signature
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2			from NICU use and how to clea	เท			
3	If the mother hours. Phore to ensure the Time of birth	er has not visited the call to postnatate mother has state: ssion started:ssion started:					
4	Explain imp	ortance of skin to	skin contact with ba op a plan for skin to				
5		ortance of frequer sions in 24 hours	nt milk expression:				
6		-	n expressing plan to	mum			
7	Discuss mill	k storage, transpo	ort and labelling				
	pressing iewed on	Day 3	Day 5		Day 7	Day 9	Day 10 onward
100	(tick)						
Ad	vice given						
s	ignature						
Refe	erral to Lactat	tion Consultant	Yes No			Date:	dd/mm/yy
	ssued Electric	Breast Pump	Pump Number:			Date:	dd/mm/yy

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IF THIS DOCUMENT IS PRINTED, IT IS VALID ONLY FOR THE DAY OF						PRINTING	Page 5 of 5