

ASSESSMENT OF BREASTMILK EXPRESSION

For sick and preterm babies the importance of breastmilk cannot be overestimated, supporting growth and providing protection from infection. In particular, evidence suggests that the use of breastmilk decreases the incidence and severity of the life threatening disease necrotising enterocolitis. By providing her breastmilk a mother can be assured that she is uniquely contributing to the wellbeing and development of her baby. However, expressing breastmilk over a long period of time is extremely demanding and if a mother is to succeed, effective support is needed from those involved with caring for her and her baby.

The Baby Friendly Initiative recommends that a formal review is carried out at least once within the first 12 hours following delivery to support early expressing and **at least four times within the first two weeks**. This will ensure that mothers are expressing effectively and will provide an opportunity to address any issues or concerns they may have. Early (within the first 2 hours), frequent (at least 8 to 10 times in 24 hours including once at night) and effective expressing (combining hand and pump expression) is crucial to ensuring a mother is able to maximise her individual milk production so that she can maintain her supply for as long as she wishes. Many women will be able to express between 700 and 900 mls per day when provided with the support to express effectively. There are many factors, however, that may impact on the amount of milk an individual woman may produce, so the focus should primarily be on enabling the woman to achieve her potential rather than on specific amounts.

Delays in starting to express or any reduction in the frequency or effectiveness of expression will compromise her long term supply. Early detection and correction of problems will help her maintain confidence in her ability to produce milk for her baby.

Tips to help mothers succeed

- Hand expressing is a good technique for obtaining small volumes of colostrum.
- Breast massage and relaxation techniques support a mother's milk flow by increasing oxytocin.
- Expressing close to her baby or having a photo or piece of baby's clothing can also help a mother's milk production and flow.
- Encouraging frequent and prolonged skin-to-skin contact or, where this is not possible, interacting with and undertaking cares for the baby will further support an emotional connection and increase milk making hormones.
- When using a pump mothers should be taught how to use this correctly and staff should ensure that the equipment fits effectively.
- Double pumping should be encouraged as this can save time and may contribute to being able to express long term. Larger volumes can often be achieved when mothers double pump.
- Support mothers to develop a plan for expressing and consider using an expressing log to help. Flexibility around when a mother expresses often helps mothers sustain expressing for prolonged periods. Emphasis on the frequency of 8-10 times (including once at night), will enable a mother to express for as long as she wishes. She does not have to stick to a strict 3-4 hourly routine (she can cluster express if she wishes i.e. expressing 2-3 times in a 4 hourly period), but should avoid long gaps (4 hours in the day and 6 hours at night) between expressions.
- The importance of the night-time expression should be emphasised to replicate normal physiology and support long term milk production.
- It is expected that milk volumes will increase in the first two weeks. Frequent evaluation of how the mother is expressing will enable staff to support the mother in increasing the effectiveness of her expressing. Referral to specialist support should be considered if, despite effective expressing, the amount the mother is able to express is not increasing as hoped.
- Emotional support is important throughout the mother's journey. This may include enabling the mother to stay with her baby as often and for as long as she wishes, frequent updates on the condition of her baby and participation in as much care as she feels comfortable with.

Expressing assessment form

If any responses in the right hand column are ticked refer to specialist practitioner. Any additional concerns should be followed up as needed. Please date and sign when you have completed the assessments.

<i>Mother's name:</i>	<i>Baby's name:</i>	<i>Date of assessment:</i>				<i>Birth weight:</i>				
	<i>Date of birth:</i>					<i>Gestation:</i>				
What to observe/ask about	Answer indicating effective expressing	✓	✓	✓	✓	Answer suggestive of a problem	✓	✓	✓	✓
Frequency of expression	At least 8-10 times in 24 hours including once during the night.					Fewer than 8 times. Leaving out the night expression.				
Timings of expressions	Timings work around her lifestyle – if cluster expressing, no gaps of longer than 4 hours (daytime) and 6 hours (night time)					Frequent long gaps between expressions. Difficulty 'fitting in' 8 expressions in 24 hours.				
Stimulating milk ejection	Uses breast massage, relaxation, skin contact and/or being close to baby. Photos or items of baby clothing to help stimulate oxytocin.					Difficulty eliciting a milk ejection reflex. Stressed and anxious.				
*Hand expression	*Confident with technique. Appropriate leaflet/information provided.					*Poor technique observed. Mother not confident.				
Using a breast pump	Access to electric pump. Effective technique including suction settings, correct breast shield fit. Double pumping (or switching breasts) to ensure good breast drainage. Uses massage and/or breast compression to increase flow.					Concern about technique. Suction setting too high/low, restricting expression length, breast shield too small/large.				
Breast condition	Mother reports breast fullness prior to expression which softens following expression. No red areas or nipple trauma.					Breasts hard and painful to touch. Evidence of friction or trauma to nipple.				
Milk flow	Good milk flow. Breasts feel soft after expression.					Milk flow delayed and slow. Breasts remain full after expression.				
Milk volumes	Gradual increases in 24 hr volume at each assessment.					Milk volumes slow to increase or are decreasing at each assessment.				

Hand expression may not need to be reviewed every time

Date	Information/support provided	Signature