

Tutorial 6: Breastfeeding

Objectives

- Demonstrate counselling skills for promotion of breastfeeding feeding (focused on benefits of breastfeeding for the mother and child, and correct way of breastfeeding feeding, advise on prevention on breast engorgement and breast abscesses)
- Demonstrate skills to plot growth charts of children
- We will discuss Global target for breastfeeding 'The Baby -Friendly Hospital Initiative As Part of The Global Strategy'
- We will discuss Antenatal Infant Feeding Checklist
- We will discuss Perceived insufficient milk issue.
- History taking for assessment of breastfeeding.
- How to assess a breastfeed (attachment, positioning, signs of effective suckling).
- Demonstrate skills to plot growth charts of children to aid in breastfeeding counseling.
- Student will be confidently support mothers with early and exclusive breastfeeding.
- Student can help in movement towards achieving Baby-friendly hospitals and communities.
- **IMPORTANT FOR OSCE**

Was done by



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What are the effects of poor infant feeding on:

- 1 Families
- 2 Communities
- 3 Health services



Global targets 2025: To improve maternal, infant and young child

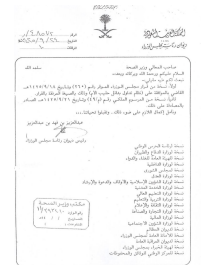
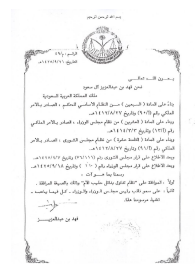


Breastfeeding target: Increase the rate of exclusive breastfeeding¹ in the first 6 months up to at least 50%

The baby-friendly hospital initiative a part of the global strategy

The WHO International Code of Marketing of Breastmilk Substitutes

- Usually abbreviated to the WHO **Code** was adopted in 1981 by the World Health Assembly (WHA) to promote safe and adequate nutrition for infants
 - by the protection and promotion of breastfeeding
 - And by ensuring the proper use of **breast-milk substitutes** (individual countries) implement the Code
- Individual countries implement the Code but they may implement it in the way that they think is best for their countries
- They can make their Code a law



1: Only Breast Milk for the first 6 months regardless how (from the breast or pumping) for the first 6 months with no supplementation.
 Supplementation: Breast milk + milk formulas
 The percentage of Exclusive breastfeeding in KSA is around 13%-20%

Perceived insufficient milk



The issue of perceived **insufficient milk** supply is a **frequently** occurring problem and is **reported** globally

Is often **reported** as the **most common** problem that women experience with breastfeeding

Frequently leads to early weaning or **decreased** exclusivity

Antenatal Infant checklist¹

Topic	Discussed or note if mother declined discussion	Signed	Date
Importance of exclusive breastfeeding to the baby (protects against many illnesses such as chest infections, diarrhoea, ear infections; helps baby to grow and develop well; all baby needs for the first six months, changes with baby's needs, babies who are not breastfed are at higher risk of illness)			
★ Importance of breastfeeding to the mother (protects against breast cancer and hip fractures in later life, helps mother form close relationship with the baby, artificial feeding costs money)			
Importance of skin-to-skin contact immediately after birth ² (keeps baby warm and calm, promotes bonding, helps breastfeeding get started)			
Importance of good positioning and attachment (good positioning and attachment helps the baby to get lots of milk, and for mother to avoid sore nipples and sore breasts. Help to learn how to breastfeed is available from ...)			
Getting feeding off to a good start ³ - baby-led feeding; - knowing when baby is getting enough milk; - importance of rooming-in / keeping baby nearby; - problems with using artificial teats, pacifiers.			
No other food or drink needed for the first 6 months – only mother's milk Importance of continuing breastfeeding after 6 months while giving other foods			
Risks and hazards of not breastfeeding - loss of protection from illness and chronic diseases; - contamination, errors of preparation; - costs; - difficulty in reversing the decision not to breastfeed.			

Other points discussed and any follow-up or referral needed:

1: Not necessarily to cover all during the first visit.

IMPORTANT FOR OSCE

2: Premortex bonding, increase in infant's respiratory rate, increase in O2 consumption, increase in uterine contractions which decreases the chances of postpartum hemorrhage

3: Mother and infant should sleep in the same room

Recommended Milk Intake and Stooling Patterns for Breastfed Infants¹

Age	Intake (mL per feeding)	Stooling patterns (stools per day)	Stool description
0 to 24 hours	2 to 10	1	Dark green to black, sticky
24 to 48 hours	5 to 15	2	Dark green to black, sticky
48 to 72 hours	15 to 30	6 to 8	Green
72 to 96 hours	30 to 60	6 to 8	Green
> 5 days	60 to 120	6 to 8	Light mustard-seed yellow

Look

Look at the mother herself

Look

Look at how the mother holds her baby

Look

Look at the baby's condition
Crying? Jaundice? Any Herbs in the bottle?

Observe

Observe the baby responds to the breast



How to assess a breastfeed²

Observe how the mother holds her breast for the baby

Observe

Observe the baby's attachment and suckling

Observe

Notice how the breastfeed finishes

Notice

Observe the condition of the mother's breasts

Observe

How the mother holds her baby

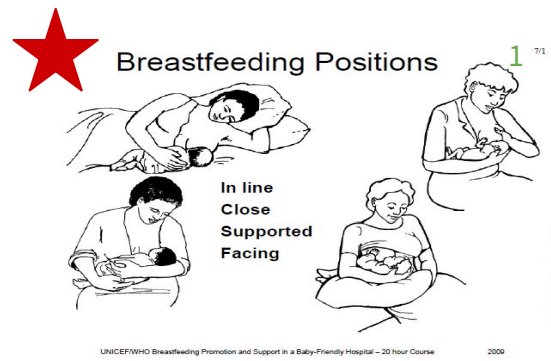
- Mother supports the baby's whole body
- Calm and relaxed? Nervous
- The four signs of good positioning of the baby are:
 - The baby should be **straight**
 - **Facing** the breast
 - **Close** to the mother
 - The baby should be **supported**

It is easier for the baby to attach to the breast if the mother supports the baby's whole body. Supporting only the baby's head and shoulders makes it more difficult. However, supporting the whole body is less important after the first few months, when the baby has more control. If the mother is calm and relaxed, this helps milk flow. If she is nervous, and for example, she shakes or pokes her baby, this can interfere with suckling and breast milk flow.

1: The mother's belief that she has "insufficient" milk is the main reason why mothers don't breastfeed

2: We don't touch the mother. We just guide her she has to correct herself.

The baby's position



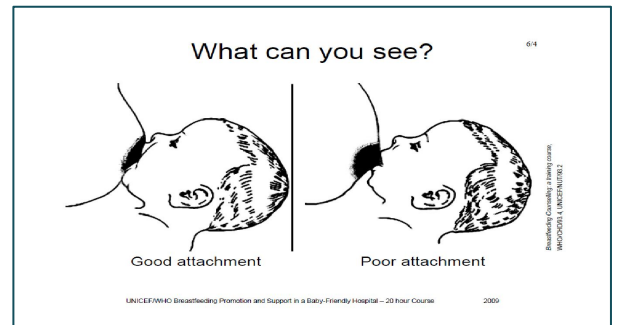
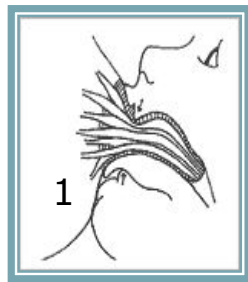
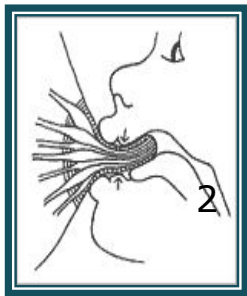
1 IN LINE-ear, shoulder, hip in a straight line; neck not twisted/bent forward or backward

2 FACING- the breast with baby's nose to nipple

Remember 4 key points

4 SUPPORTED-at head, shoulders; newborn-support whole body

3 CLOSE to mum's body- baby to breast



Observe the baby's attachment and suckling²

Good attachment

- The baby's mouth is wide open
- The lower lip is turned out
- The chin is touching the breast (or nearly so)
- More areola is visible above the baby's mouth than below

How a baby latch

Poor attachment

- The mouth is not wide open
- The lower lip is pointing forward (it may also be turned in)
- The chin is away from the breast
- More areola is below the baby's mouth (you might see equal amounts of areola above and below the mouth)

TABLE 3

Signs of Good Positioning and Latch for Successful Breastfeeding

The infant's nose is free from the breast
 The infant's chin is pressed against the breast
 The infant's cheeks are rounded, not sunken in or dimpled
 The infant's mouth is open wide like a yawn
 If any areola is visible, more is seen above the infant's top lip, with little to none showing near the chin
 The infant's lower lip is flanged outward
 The infant's body is in line with the head and facing toward the mother ("tummy to tummy")
 Feeding is not painful to the mother after the initial 30 seconds to one minute after latching
 The infant has a rhythmic suck and swallow pattern

Information from references 26 and 27.

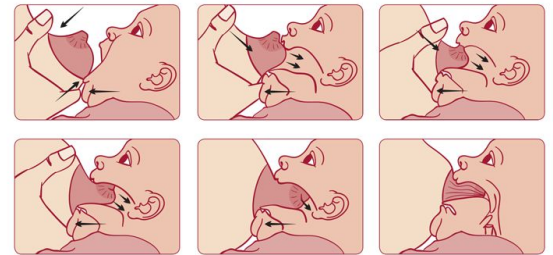
1: Whatever position the mother feels comfortable with is fine as long as the 4 key points are met.
 2: While breastfeeding the mother should make sure that there's "good attachment". Also she should avoid the scissor way of holding the breast as it blocks the mammary ducts instead C-shaped is the most recommended.

Sign of effective sucking



- The baby takes slow deep sucks.
- Then he pauses and waits for the ducts to fill up again.
- Then he takes a few quick sucks to start the milk flow.
- As the milk flows, his sucks become deeper and slower again.
- You may see or hear swallowing.
- The babies cheeks are round.
- **Output (full dipper)**

Attachment: The key to successful breastfeeding



Sign of ineffective sucking

- The baby taking quick shallow sucks all the time.
- The baby may make smacking sounds as he sucks.
- The baby's cheeks may be tense or pulled in as he sucks.
- that mean the baby is not getting much breast milk.

- **To demonstrate effective suckling:**
Suck on your fist, with your mouth open wide, your tongue forward, and your lower lip curled back. Give slow deep sucks, about 1 per second.
- **To demonstrate ineffective suckling:**
Suck on your thumb, with your mouth almost closed, your lips pointing forwards, and letting your cheeks pull in. Give quick, small sucks

BREASTFEED HISTORY JOB AID¹

BREASTFEEDING HISTORY JOB AID	
Mother's name	Baby's name
Age of child	
Particular concerns about feeding of child (or reason for consultation)	Date
Feeding Breast milk; Other milk (formula, cow's milk, other) Frequency of breastfeeds Length of breastfeeds/one or both breasts ★ Night feeds Quantity and frequency of other milk feeds Other fluids in addition to milk (when started, what, quantity, frequency) Other foods in addition to milk (when started, what, quantity, frequency) Use of bottles and how cleaned Feeding difficulties (breastfeeding/other feeding)	Pregnancy, birth, early feeds (where applicable) Antenatal care Feeding discussed at ante-natal care Delivery experience – early contact, first breastfeed within first hour Rooming-in Prolactin feeds Postnatal help with feeding
Health Growth chart (birth weight, weight now) Urine frequency per day (6 times or more), if less than 6 months Stools (frequency, consistency) Illnesses Behaviour (feeding, sleeping, crying)	Mother's condition and family planning Age Health – including nutrition and medications Habits – coffee, smoking, alcohol, drugs Breast health Family planning Motivation to breastfeed
	Previous infant feeding experience Number of previous babies How many breastfed and for how long If breastfed – exclusive or mixed fed Other feeding experiences – ever used bottle feeds
	Family and social situation Work situation Economic situation, education Family's attitude to infant feeding practices (baby's father, grandmother) Help with baby at home

¹: Frequency of breastfeeds should be every 2-3 hrs and the duration of one feed should be 10-15 mins. **Night feeds are important** If the child isn't hungry after 2-3 hrs then the breast milk should be pumped

BREASTFEED OBSERVATION JOB AID

Mother's name _____

Date _____

Baby's name _____

Baby's age _____

Signs that breastfeeding is going well:

Signs of possible difficulty:

GENERAL

Mother: Mother:

- | | |
|---|---|
| <input type="checkbox"/> Mother looks healthy | <input type="checkbox"/> Mother looks ill or depressed |
| <input type="checkbox"/> Mother relaxed and comfortable | <input type="checkbox"/> Mother looks tense and uncomfortable |
| <input type="checkbox"/> Signs of bonding between mother and baby | <input type="checkbox"/> No mother/baby eye contact |

Baby: Baby:

- | | |
|---|--|
| <input type="checkbox"/> Baby looks healthy | <input type="checkbox"/> Baby looks sleepy or ill |
| <input type="checkbox"/> Baby calm and relaxed | <input type="checkbox"/> Baby is restless or crying |
| <input type="checkbox"/> Baby reaches or roots for breast if hungry | <input type="checkbox"/> Baby does not reach or root |

BREASTS

- | | |
|--|---|
| <input type="checkbox"/> Breasts look healthy | <input type="checkbox"/> Breasts look red, swollen, or sore |
| <input type="checkbox"/> Mother says no pain or discomfort | <input type="checkbox"/> Mother says breast or nipple painful |
| <input type="checkbox"/> Breast well supported, fingers away from nipple | <input type="checkbox"/> Breast held with fingers near nipple |
| <input type="checkbox"/> Nipple stands out, protractile | <input type="checkbox"/> Nipple inverted, large or long |

BABY'S POSITION

- | | |
|---|--|
| <input type="checkbox"/> Baby's head and body in line | <input type="checkbox"/> Baby's neck and head twisted |
| <input type="checkbox"/> Baby held close to mother's body | <input type="checkbox"/> Baby not held close |
| <input type="checkbox"/> Baby's whole body supported | <input type="checkbox"/> Baby's whole body <u>not supported</u> |
| <input type="checkbox"/> Baby approaches breast, nose to nipple | <input type="checkbox"/> Baby approaches breast, lower lip to nipple |

BABY'S ATTACHMENT

- | | |
|--|---|
| <input type="checkbox"/> More areola seen above baby's top lip | <input type="checkbox"/> More areola seen below bottom lip |
| <input type="checkbox"/> Baby's mouth <u>open</u> wide | <input type="checkbox"/> Baby's mouth not open wide |
| <input type="checkbox"/> Lower lip turned outwards | <input type="checkbox"/> Lips pointing forward or turned in |
| <input type="checkbox"/> Baby's chin touches breast | <input type="checkbox"/> Baby's chin not touching breast |

SUCKLING

- | | |
|--|--|
| <input type="checkbox"/> Slow, deep sucks with pauses | <input type="checkbox"/> Rapid shallow sucks |
| <input type="checkbox"/> Cheeks round when suckling | <input type="checkbox"/> Cheeks pulled in when suckling |
| <input type="checkbox"/> Baby releases breast when finished | <input type="checkbox"/> Mother takes baby off the breast |
| <input type="checkbox"/> Mother notices signs of oxytocin reflex | <input type="checkbox"/> No signs of oxytocin reflex noticed |

Time spent suckling minutes

It summarizes the key points for assessing a breastfeed. You will use this form to practise observing breastfeeds with mothers and babies.

The signs are in 6 groups: General signs of the mother, and of the baby; Condition of the breasts; the baby's position; the baby's attachment; and suckling. There are 3 signs each for mother and baby, and four signs in each of the other groups.

Notice that the signs on the left all show that breastfeeding is going well. The signs on the right indicate a possible difficulty.

Beside each sign is a box to mark with a tick if you have seen the sign in the mother and baby that you are observing.

As you observe a breastfeed, mark a tick in the box for each sign that you observe. If you do not observe a sign, do not make a mark.

If all ticks are on the left hand side of the form, breastfeeding is probably going well.

If there are some ticks on the right hand side, then breastfeeding may not be going well. This mother may have a difficulty, and she may need your help.

The negative signs, such as "no signs of milk ejection", and "cannot see tongue", do not necessarily mean that there is a difficulty. However, the opposite positive signs are always helpful.

If a mother says that breastfeeding is going well, but you see signs that indicate a possible difficulty, you must decide what to do.

- In the days soon after delivery, while the mother is still learning, offer to help her. Even if she is not aware of any difficulty now, you may prevent one occurring later.

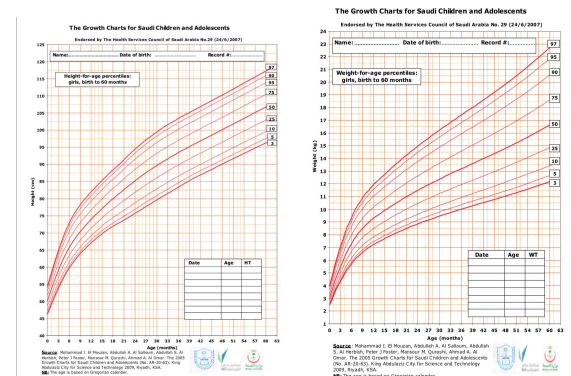
- If breastfeeding seems to be well established, you probably do not want to intervene immediately. It is usually more helpful to see her again soon, and follow the baby's growth, to make sure that breastfeeding continues to go well. Intervene only if a difficulty arises.

Case 1:

- ▶ Fatima goes in to see her pregnancy care provider. He or she does not know if Fatima heard the group talk on breastfeeding and if she has any questions.
- ▶ **How can the pregnancy care provider find out if a pregnant woman knows about the importance of breastfeeding or has questions?** Ask her open ended questions for example What do you know about breastfeeding ? This allows you to know about the mother's background knowledge and from there you'll know how and from where to start.
- [Slide 3](#)

Case 2:

- ▶ Mariam gave her previous baby regular supplements from birth. Now she is hearing that supplements are not good for babies and wants to know why because she want to give her daughter. Her baby now is 3 months ht 58 cm wt 6 kg
- ▶ **What can you say to Mariam?** Assure her that she doesn't need supplements unless indicated
- ▶ Indications for supplementation: Low infant weight. How do you know? From the growth chart (pictures seen on the right). Plot the height and weight and then show the mother (in this case it's normal)



Red growth chart: Girls
Blue growth chart: Boys

Case 3:

- ▶ Nora gave birth to a healthy boy in the hospital two weeks ago. Today she, the baby, and her mother-in-law are returning to the hospital because the baby is "sleeping all the time" and has passed only three stools this week. When the outpatient clinic nurse weighs the baby, she finds him **12% under birth weight.**¹
- ▶ Nora feels that her baby is refusing her breasts. Yesterday, the mother-in-law began offering tea with **honey**² in a bottle twice a day.
- ▶ Upon observing the breastfeed; the baby is held loosely and that he must bend his neck to reach the breast. The baby has very little of the breast in his mouth and falls off the breast easily. When he falls off the breast, he gets upset, moves his head around, crying and has difficulty getting attached again.
- ▶ **How you can approach this case?**
 1. Tell the mother her efforts are appreciated
 2. Before going to supplements try fixing the problem. Teach the mother about good attachment and latching.
- [Slide 6](#)
- [Slide 7](#)

1: Normally infants lose around 7% of their weight but after 2 weeks they regain it.

2: Honey is contraindicated for children less than 1 year

Additional Resources for practice Breastfeeding Counselling

Breastfeeding: Common Questions and Answers

Katie L. Westerfield, DO, and Kristen Koenig, MD, Martin Army Community Hospital, Fort Benning, Georgia
Robert Oh, MD, MPH, Madigan Army Medical Center, Joint Base Lewis McCord, Washington

All major health organizations recommend breastfeeding as the optimal source of infant nutrition, with exclusive breastfeeding recommended for the first six months of life. After six months, complementary foods may be introduced. Most organizations recommend breastfeeding for at least one year, and the World Health Organization recommends a minimum of two years. Maternal benefits of breastfeeding include decreased risk of breast cancer, ovarian cancer, postpartum depression, hypertension, cardiovascular disease, and type 2 diabetes mellitus. Infants who are breastfed have a decreased risk of atopic dermatitis and gastroenteritis, and have a higher IQ later in life. Additional benefits in infants have been noted in observational studies. Clinicians can support postdischarge breastfeeding by assessing milk production and milk transfer; evaluating an infant's latch to the breast; identifying maternal and infant anatomic variations that can lead to pain and poor infant weight gain; knowing the indications for frenotomy; and treating common breastfeeding-related infections, dermatologic conditions, engorgement, and vasospasm. The best way to assess milk supply is by monitoring infant weight and stool output during wellness visits. Proper positioning improves latch and reduces nipple pain. Frenotomy is controversial but may reduce pain in the short term. The U.S. Preventive Services Task Force recommends primary care interventions to support breastfeeding and improve breastfeeding rates and duration. (*Am Fam Physician*. 2018;98(6):368-373. Copyright © 2018 American Academy of Family Physicians.)

Management of Common Problems that can Affect Breastfeeding For additional reading

Management of Common Conditions That Can Affect Breastfeeding

Condition	Presentation	Treatment
Dermatoses		
Bacterial infection	Erythema, purulent discharge	Most cultures are positive for <i>Staphylococcus</i> Topical mupirocin (Bactroban) applied three times per day
Candidiasis	Salmon-colored nipples, flaky or shiny skin with associated itching or burning within the duct during feeding	Topical or oral antifungals Oral fluconazole (Diflucan); two 150-mg doses given 48 hours apart or 100 mg per day for 10 days) is more effective than oral nystatin Topical mupirocin applied three times per day for five to seven days can be considered because it may have antifungal properties and help prevent secondary bacterial infections Gentian violet can be used with caution because of the risk of infant mucosal ulcerations: gentian violet 1% is applied to the nipple with a cotton swab (this is messy and will stain clothing and skin) followed by a feeding at the treated breast, then this is repeated on the other side; this process is continued daily for three or four days, and up to seven days if there is improvement
Dermatitis/eczema	Pruritic, erythematous, scaly rash	Remove offending agent Rinse older infant's mouth between eating solids and breastfeeding Class IV medium-potency topical corticosteroid, such as hydrocortisone valerate 0.2%, triamcinolone 0.1%, or fluocinolone 0.025% (Synalar) applied twice per day for seven days
Nipple damage	Erythema, broken skin, ulcerations, bruising	Adjustment of latch and infant position or pump flange size to stop trauma to the nipple Expressed breast milk applied to the nipple after feedings and as needed between feedings Lanolin, all-purpose nipple ointment, breast shells, or glycerin pads can be used but are no more effective than expressed breast milk; hydrogel dressings have been shown to manage pain more effectively than lanolin

Additional Resources for practice Breastfeeding Counselling

Milk flow issues

Blocked milk ducts	Tender nodule confined to one or more ducts	<p>Check breast pump flange sizes (during expression phase of pumping, the nipple and a small amount of areola should be pulled into the tunnel; the nipple should be centered and move freely in the tunnel)</p> <p>Check the latch of the infant</p> <p>Massage area or apply vibration (e.g., with an electric toothbrush or massager)</p> <p>Improve/increase drainage of the breast by removing constricting clothing (e.g., underwire bras, tight sports bras), increasing the frequency of feedings, or pumping more often or between feedings; hand express to focus on one area for complete emptying</p> <p>Dangle feeding: the breast is dangled over the infant, often with the infant lying flat or inclined and the mother leaning over the infant so that milk flows forward by gravity</p> <p>Heat therapy: apply warm compresses or a heating pad to the breast for 20 minutes</p> <p>Feed with the chin toward the blockage to increase suction on that area and improve drainage (this may require assistance from a support person to hold the infant in position or can be done with dangle feeding)</p> <p>Reduce pain and inflammation with nonsteroidal anti-inflammatory drugs such as ibuprofen, 600 to 800 mg three times per day</p> <p>The herbal remedy lecithin, 1,200 mg three or four times per day, can be considered for recurrence</p> <p>Evaluate for milk blebs</p> <p>Rest and hydration</p>
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Management of Common Conditions That Can Affect Breastfeeding

Condition	Presentation	Treatment
Milk flow issues (continued)		
Engorgement	Full, tender breasts; breasts are edematous and shiny, and nipples and areolae may appear similar to inverted nipple; difficulty with latching	<p>Hot or cold packs, acupuncture, application of cabbage leaves, and massage therapy may be helpful to reduce discomfort</p> <p>Reverse pressure softening (positive pressure applied around the nipple and areola temporarily moving interstitial fluid deeper into the breast away from the areola, making the areola softer and more pliable) decreases edema around the nipple and areola to help the infant latch more easily; a video of this method is available at https://m.youtube.com/watch?t=15s&v=2_RD9HNrOJ8</p> <p>Feed infant in a reclined position to reduce flow to infant</p> <p>Hand express or pump just enough to soften the breast and provide relief but not completely drain the breast</p>

Serious infections

Breast abscess	Tender, fluctuant nodule; erythema; induration; warmth Usually associated with the systemic symptoms of mastitis	<p>Ultrasonography for diagnosis</p> <p>Incision and drainage plus appropriate antibiotic therapy based on culture results</p> <p>Because of the risk of sinus tract formation, referral to a breast surgeon or interventional radiologist for incision and drainage should be considered</p>
Mastitis without systemic symptoms	Tender nodule within a duct plus erythema and warmth	<p>Treat for blocked ducts, including massage, warm compresses, rest, hydration, and nonsteroidal anti-inflammatory drugs, for 24 hours</p> <p>If there is no improvement after 24 hours, start dicloxacillin, 500 mg four times per day for five days; add an additional five days if inflammation is still present</p>
Mastitis with systemic symptoms	Symptoms of mastitis plus malaise, fatigue, and fever greater than 101°F (38.3°C)	<p>Follow recommendations for mastitis without systemic symptoms</p> <p>If symptoms do not resolve in 48 hours, a milk sample should be cultured; most cultures are positive for <i>Staphylococcus</i></p> <p>If there is a concern for methicillin-resistant <i>Staphylococcus aureus</i>, the patient should be treated accordingly</p> <p>If symptoms are unresolved or there is an area of fluctuance, breast ultrasonography should be performed to evaluate for abscess</p>

Additional Resources for practice Breastfeeding Counselling

 U.S. National Library of Medicine **TOXNET** TOXICOLOGY DATA NETWORK

Mobile | Help | FAQs | TOXNET Fact Sheet | Training Manual & Schedule

TOXNET Home > LactMed

 Share



LactMed
A TOXNET DATABASE

Drugs and Lactation Database (LactMed)

SEARCH LACTMED | BROWSE LACTMED | ADVANCED SEARCH

e.g. sertraline, SSRIs

Search Term: Records with: Include Synonyms and CAS Numbers in Search

Support

Resources

- User and Medical Advice
- Disclaimer
- LactMed Data Usage/Translation
- LactMed App
- LactMed Record Format
- Database Creation & Peer Review Process
- Help
- Fact Sheet
- Sample Record
- TOXNET FAQ
- Glossary
- Selected References
- About Dietary Supplements
- Breastfeeding Links
- Get LactMed Widget

About LactMed

What is LactMed?

The LactMed® database contains information on drugs and other chemicals to which breastfeeding mothers may be exposed. It includes information on the levels of such substances in breast milk and infant blood, and the possible adverse effects in the nursing infant.

Did you know



How do I obtain the full TOXNET dataset?

The following TOXNET datasets are available: ChemDplus, CCRIS, GENE-TOX, HSDB, LactMed, and TOXLINE.



LactMed 17+

National Library of Medicine

#180 in Medical

★★★★☆ 3.7, 11 Ratings

Free

iPhone Screenshots

