



City Health Information

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ENCOURAGING AND SUPPORTING BREASTFEEDING

- **Assess whether breastfeeding is the best option. In most instances, it is.**
- **Discuss the many benefits of breastfeeding for the infant and mother at every visit, beginning at the first prenatal visit.**
- **Provide support to breastfeeding mothers throughout pregnancy, at delivery, during the postpartum period, and during at least the first 6 months of life.**

Exclusive breastfeeding for the first 6 months of an infant's life has many short- and long-term health benefits for babies and mothers, including a reduction in infectious diseases and mortality during infancy, improved bonding, and maternal postpartum weight loss (Table 1).^{1,2} The economic advantages of breastfeeding are also significant. Money saved from not buying infant formula is conservatively estimated at \$1,000 per year.^{3,4} The decreased risk of illness in breastfed infants also reduces outpatient care and hospitalization costs, resulting in lower out-of-pocket expenses and co-payments for health care visits and medications, as well as fewer work absences and decreased family stress.^{3, 5-7}

Despite these benefits, relatively few women breastfeed for the recommended time period. In New York City (NYC), nearly 85% of postpartum women initiate breastfeeding, but at 2 months only 26% are still exclusively feeding their infant breast milk.⁸ This is far below the Healthy People 2010 goal for 60% of women to breastfeed their babies exclusively for the first 3 months.⁹

Racial disparities in breastfeeding rates are also large. In NYC, nearly twice as many white women as black women breastfeed exclusively for at least 2 months (34% vs. 19%). Asian and Hispanic women also breastfeed their babies less frequently than do white women (22% and 26%, respectively).⁸

Data from ongoing surveys of new mothers in NYC conducted by the Health Department reveal that women stop breastfeeding for many reasons. The most commonly cited reasons women stop breastfeeding include: concern that not enough milk is being produced (45%) or that breast milk doesn't satisfy the baby (43%); the baby has difficulty nursing (24%); sore, cracked, or bleeding nipples (17%); and/or a new mother's need to return to work or school (16%).⁸ Most of these problems are preventable when adequate support is provided.



TABLE 1. THE HEALTH BENEFITS OF BREASTFEEDING¹⁰⁻³¹**For Baby**

- Confers high-level immunity (through secretory IgA).
- Decreases incidence/severity of many infectious diseases during and beyond the period of breastfeeding (e.g., bacterial meningitis, bacteremia, diarrhea, respiratory tract infections, necrotizing enterocolitis, otitis media, urinary tract infections, and late-onset sepsis in preterm infants).
- Reduces risk of post-neonatal (>28 days) infant mortality.
- Improves neurodevelopmental outcomes, especially for preterm infants.
- May impart long-term health benefits, including decreased incidence of SIDS, type 1 and type 2 diabetes, Crohn's disease, ulcerative colitis, lymphoma, leukemia, Hodgkin's disease, obesity, hypercholesterolemia, and asthma.
- Improves bonding with mother.

For Mother

- Facilitates uterine involution after delivery and decreases maternal blood loss.
- Accelerates return to pre-pregnancy weight.
- Delays postpartum ovulation, supporting birth spacing.
- Saves time and money.
- Imparts long-term health benefits, including decreased risk of ovarian and premenopausal breast cancer.
- May improve bone remineralization postpartum, leading to a decreased incidence of postmenopausal hip fractures.
- Improves bonding with baby.

The significant health benefits of breastfeeding (Table 1) underscore the importance of breastfeeding support for pregnant women and new mothers by health care providers. Antepartum programs that combine breastfeeding education with behavioral counseling increase breastfeeding initiation and duration among new mothers.^{32, 33} Ongoing postpartum support for patients, through in-person visits or telephone contacts with providers or counselors, has also been found to increase the proportion of women who continue to breastfeed several months after giving birth.³⁴⁻³⁶

THE UNIQUE PROPERTIES OF BREAST MILK

- Colostrum, secreted during the first few days of an infant's life, is rich in essential proteins and confers immunity through IgA.
- Within a few days, the colostrum begins to be accompanied by mature milk and the composition changes—protein and mineral concentrations decrease, while water, fat, and lactose increase.
- Breast milk's composition changes to meet a baby's changing nutritional needs.
 - The milk produced at the start of a feeding is high in water content to quench thirst, while the milk produced later during a feeding contains fat and calories to satisfy nutritional needs.
 - Over time, breast milk contains factors that act as biologic signals to promote cellular growth and differentiation.
- Breast milk contains antimicrobial factors, such as acetylhydrolase and lactoferrin, that protect against infection.

Hospitals can increase breastfeeding rates by providing health care staff (e.g., lactation coordinator, nurse, or physician's assistant) to assist new mothers with breastfeeding initiation, ideally within an hour of delivery, enabling "rooming-in" to aid breastfeeding on demand, not providing bottles to breastfeeding infants unless medically indicated, making breast pumps available to mothers of preterm/low birth weight infants, and eliminating formula promotion materials from labor and delivery units and diaper bags.

Use of nurse home-visiting programs (such as NYC's Newborn Home Visiting Program and the Nurse-Family Partnership, see box on page 22) can also encourage women to breastfeed their babies.

IMPORTANT STEPS PROVIDERS CAN TAKE TO FACILITATE BREASTFEEDING

1. Assess whether any contraindications for breastfeeding—though rare—exist.

Despite widespread misconceptions (Table 2), nearly every woman can breastfeed. However, there are some rare absolute contraindications. These include:^{31, 37-40}

- Infants with galactosemia.
- Mothers who use illegal drugs.
- Mothers infected with HIV, human T-cell lymphotropic virus type I or type II, or who have an active herpes lesion on the breast.
- Mothers taking any of the following medications: radioactive isotopes, cancer chemotherapy agents, such as antimetabolites, and thyrotoxic agents.

TABLE 2. COMMON MISCONCEPTIONS ABOUT WOMEN WHO “CANNOT” BREASTFEED^{31, 38-47}

Mothers who ...	Breastfeeding strategies/considerations
have cesarean deliveries	Initiate breastfeeding immediately, using a semi-recumbent position on the side or sitting up.
receive vaccinations or live with children who are vaccinated	Neither inactivated nor live vaccines administered to a lactating woman or other family members affect the safety of breastfeeding for the mother or infant.
take medications	Most medications can be taken while breastfeeding. Consult product prescribing information and the LactMed Database about specific drugs: www.toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?LACT . (Also see listing of absolute contraindications on page 18.)
had breast surgery, including breast augmentation or reduction	<i>Augmentation mammoplasty:</i> breastfeed frequently to maintain milk supply. <i>Breast reduction:</i> monitor infant growth because milk supply could be insufficient. <i>Breast biopsy involving an areolar incision:</i> women can compensate by augmenting production in the unaffected breast, but monitor infant growth because milk supply could be insufficient.
have hepatitis A	Initiate breastfeeding after infant receives immune serum globulin, and then vaccinate at 1 year of age.
have hepatitis B	Initiate breastfeeding after infant receives hepatitis B immune globulin and first dose of the 3-dose hepatitis B vaccine series.
have hepatitis C	Hepatitis C is not a contraindication for breastfeeding, but reconsider if nipples are cracked or bleeding.
have pierced nipples	Remove nipple accessories before feeding to avoid the risk of infant choking.

Breastfeeding mothers should avoid alcohol. An occasional drink is acceptable, but breastfeeding should be avoided for 2 hours after the drink. Mothers with untreated varicella should not feed from the breast, but in most cases pumped milk can be fed to the infant.

2. Routinely discuss breastfeeding with pregnant patients, beginning at the first prenatal visit.

The initial prenatal visit is an optimal time for obstetricians, family practice providers, nurse midwives, and others who care for pregnant women to encourage or reinforce the decision to breastfeed, since most women decide to breastfeed before they become pregnant or during the first trimester.^{36,41}

During this visit, emphasize the advantages of breastfeeding over formula, including the unique properties of breast milk (see panel on page 18). Describe breastfeeding’s positive feedback loop: the more a woman breastfeeds, the more milk is produced. Suckling stimulates release of prolactin (which stimulates milk production) and oxytocin (which triggers milk release); these hormones also enhance a mother’s ability to relax and bond with her baby.

At the same time, point out the risks for infants who are *not* breastfed; some women may view such risks as a compelling reason to breastfeed. Risks include:

- Increased incidence of common infections, including diarrhea, otitis media, and urinary tract infections.^{10, 11, 16-19}

- Greater risk of serious, potentially life-threatening health problems, such as neonatal sepsis, pneumonia, and necrotizing enterocolitis.⁴⁸⁻⁵⁰
- Possible greater risk of later-onset conditions, such as diabetes, childhood cancers, and obesity.²²⁻²⁸

To initiate the conversation, pose a nonjudgmental question such as: “Have you thought about how you want to feed your baby?” or “Have you thought about breastfeeding your baby?” Encourage questions and build on the initial conversation during subsequent prenatal visits. Because work or school is often a barrier to sustaining breastfeeding, ask about a patient’s plans before delivery, and suggest ways in which breastfeeding can be sustained through pumping breast milk and other strategies, such as modifying work schedules to increase the number of daily opportunities an infant can breastfeed.⁵¹

During the third trimester, have at least one discussion to address issues that commonly cause women to stop breastfeeding in the first month postpartum. Provide anticipatory guidance regarding common patient concerns (Table 3). Using pictures, a model, or a DVD, show a patient what a properly latched-on baby looks like. In addition, encourage patients to advocate for themselves while in the hospital, reminding staff of their desire to breastfeed exclusively. Additional strategies for promoting breastfeeding in your practice are listed in Table 4.

TABLE 3. COMMON QUESTIONS ABOUT BREASTFEEDING AND HOW TO ADDRESS THEM^{31, 37, 39, 52-62}

Can I breastfeed if my baby is premature?

Yes, breast milk is good for premature babies. Ask your doctor if your baby should get additional food.

Can I breastfeed if my baby has jaundice?

Yes, most babies with jaundice can be breastfed.

How do I know if my breast milk provides enough food for my baby?

Breast milk is all a baby needs for the first 6 months of life. In the first few days after birth, your breasts produce a special substance which provides complete nutrition for your baby. In a few days, your milk will come in. You can tell if your baby is getting enough breast milk if she has loose, bright-yellow bowel movements by day 5.

How often do I need to feed my baby?

Breastfeed often. During the early weeks of breastfeeding, nurse 8 to 12 times every 24 hours (every 1½ to 3 hours). Nurse whenever your baby shows early signs of hunger (increased alertness, physical activity, mouthing).

How many bowel movements/urinations should my newborn be having?

During the first 3 to 5 days of life, a baby will have 3 to 4 bowel movements and 3 to 5 urinations every day. At 5 to 7 days, the baby will have 3 to 6 bowel movements and 4 to 6 urinations each day.

Should I give my baby water?

No, do not give your breastfeeding baby water or any other fluid. Breast milk is all your baby needs, unless your pediatrician recommends supplementation.

What do I do if my breasts become swollen and tender?

Breasts can become swollen, hard, and tender when they are not completely emptied of milk during feedings or if feedings are not frequent enough. If this happens, you should:

- Shower or apply a warm moist cloth to your breasts, then massage them with your fingertips in a circular motion, from the chest wall to the nipple.
- Nurse frequently—1½ to 2 hours or on demand. Make sure your baby is positioned and latched on correctly. While breastfeeding, massage your breast with your fingertips in a circular motion down to the nipple.
- If your baby doesn't nurse long enough to soften both breasts, hand express or pump milk after nursing.
- Apply cold compresses (a bag of frozen peas works well) between feedings until swelling begins to subside; switch to a warm, moist cloth about 10 to 15 minutes before feeding.
- If needed, take anti-inflammatory medication such as ibuprofen.
- If your areola (the dark colored area around your nipple) is engorged, pump or hand express just enough to soften it prior to feeding so that your baby can latch on more easily.

What do I do about sore nipples?

Nipples most often get sore when the baby is poorly positioned during feedings or is incorrectly latched on. Be sure your baby is taking as much areola into her mouth as possible. You may wish to talk to a lactation consultant about positioning and latch-on techniques. If your nipples do get sore, it helps to:

- Nurse more frequently for shorter periods.
- Nurse on the less sore side first.
- Coat your nipples with breast milk after feedings and let them air dry.
- Use purified lanolin cream and breast shells (to protect the nipples between feedings).

Can I continue to breastfeed if I get mastitis?

Yes, you should continue to breastfeed. Mastitis – an infection in the breast – cannot be passed to your baby. Breastfeeding will empty the affected breast, which is important in treating the mastitis.

Do I need to use birth control while I'm nursing?

Yes. You can still get pregnant when you're breastfeeding. To prevent pregnancy, use a safe and effective method. Call 311 and ask for the Health Department's brochure called "Birth Control: What's Best for You."

3. Facilitate breastfeeding following delivery.

Breastfeeding should be started within the first hour after birth unless there are medical complications or contraindications (see absolute contraindications on page 18). Place healthy infants in direct skin-to-skin contact with their mothers immediately after delivery and until the first feeding is accomplished. Eye prophylaxis and vitamin K can be administered up to 6 hours after birth and need not be given before the first feeding. Subsequent feedings should be prompted by infant demand, but should occur at least every 1½ to 3 hours. Encourage mothers and their infants to remain together during their hospital stay to facilitate feedings. Delay pacifier introduction until 1 month of age to ensure that breastfeeding is well established.

After a cesarean delivery, provide guidance to mothers on recommended breastfeeding positions—either semi-recumbent on the woman’s side or sitting up. By placing a pillow on the abdomen and the infant on the pillow, the full weight of the infant will not be on the incision, making the mother more comfortable. For premature and other high-risk infants, encourage feedings with mothers’ milk by direct breastfeeding and/or through expressed milk. Train mothers how to pump, using both manual and mechanical techniques for expressing milk.

Providers should also encourage the adoption of hospital policies that promote breastfeeding (Table 5), including a prohibition on distributing both free samples of formula and educational materials developed

by formula companies. In 1991, the World Health Organization and UNICEF launched an initiative to improve breastfeeding rates worldwide. Table 5 outlines the 10 practices that a hospital must adopt to earn a designation as a “Baby-Friendly” facility. As of the beginning of 2008, no hospital in New York City had earned this designation.

4. Provide breastfeeding support after hospital discharge.

All breastfeeding mothers and their newborns should be seen by a pediatrician, nurse practitioner, or other provider who cares for infants when the newborn is 3 to 5 days of age (the sooner the better).³⁷ During this visit:

- Praise the mother for breastfeeding, reinforcing the fact that breast milk provides the best possible nourishment for her baby.
- Weigh the infant. Weight loss of greater than 7% from birth weight may indicate breastfeeding problems and requires a more detailed evaluation to determine if the infant is receiving sufficient milk. Intervene as needed to improve milk production and infant intake by providing telephone and in-office support, and referring to a lactation specialist or support group, as needed.
- Perform a physical exam, especially looking for signs of jaundice or dehydration.

TABLE 4. PROMOTING BREASTFEEDING IN YOUR PRACTICE ^{51, 63-65}

- Make educational materials about breastfeeding available in waiting and examination rooms. **Do not, however, use materials developed by formula companies, since they may contain subtle messages that discourage breastfeeding.** Instead, use materials developed by organizations such as the American Academy of Pediatrics, the NYC Health Department, and the New York State Health Department (**Resources**).
- Offer a call-in telephone number for breastfeeding advice—yours or another health care resource available in the community or the hospital where the baby was born.
- Provide information on lactation consultants and other breastfeeding resources (e.g., La Leche League, www.llli.org//nb.html) in your community.
- Show videos on breastfeeding in the waiting room (**Resources**).
- Provide waiting room seating that is conducive to breastfeeding (e.g., a rocking chair, pillows). If patients breastfeed in your waiting room, pregnant women contemplating breastfeeding will have an opportunity to observe and engage them in discussion.
- Identify and provide training to staff members who can serve as a breastfeeding resource for patients.
- Motivate staff to promote breastfeeding by tracking breastfeeding rates among patients and displaying aggregate data in staff common areas.
- Refer patients to family physicians/pediatricians who are strong advocates of breastfeeding and encourage a visit during pregnancy.

TABLE 5. 10 HOSPITAL PRACTICES TO ENCOURAGE AND SUPPORT BREASTFEEDING*

1. Maintain a written policy supporting breastfeeding that is communicated to all health care staff.
2. Train all pertinent health care staff in skills necessary to implement this policy.
3. Inform pregnant women about the benefits of breastfeeding.
4. Offer all mothers the opportunity to initiate breastfeeding within 1 hour of birth.
5. Show breastfeeding mothers how to breastfeed and how to maintain lactation even if they are separated from their infants.
6. Give breastfeeding infants breast milk only, unless supplementation is medically indicated.
7. Facilitate “rooming-in.” Encourage mothers and infants to remain together during their hospital stay.
8. Encourage unrestricted breastfeeding when baby exhibits hunger cues or signals or on request of mother.
9. Encourage exclusive suckling at the breast by not providing pacifiers or artificial nipples.
10. Refer mothers to established breastfeeding and/or mothers’ support groups and services, and foster the establishment of those services when they are not available.

*Baby-Friendly USA, based on UNICEF/WHO Baby-Friendly Hospital Initiative 10 Steps.

- Inquire about and address maternal breast problems, e.g., engorgement, painful feedings, and any other concerns about breastfeeding (Table 3).
- Inquire about infant bowel patterns.
- Observe the mother breastfeeding, noting position, latching-on, and milk transfer.

If, at the first well-baby visit, a patient reports—and the provider concurs—that breastfeeding is going well, a second ambulatory visit should occur when the breastfeeding infant is 2 to 3 weeks old. Provide support and reassurance to mothers during this critical period, emphasizing that exclusive breastfeeding supports optimal infant growth for approximately the first 6 months of life and provides ongoing protection from diarrhea and respiratory illness. Continue to give positive reinforcement to breastfeeding women at every well-baby visit, noting breastfeeding’s health benefits for both mother and child. Introducing other foods before 6 months of age generally does not increase an infant’s growth rate, and serves only to substitute foods that lack the protective components of human milk.

If a woman experiences problems with breastfeeding, provide a referral to a lactation expert or support group.

Should re-hospitalization of the mother or infant become necessary, encourage mothers to maintain breastfeeding, preferably directly, or by pumping milk and feeding expressed breast milk to the baby.

Vitamin and mineral supplementation

- Beginning in the first 2 months of life, all breastfed infants should receive 200 IU of oral vitamin D drops daily.⁶⁶ Supplementation should continue unless the infant is receiving >500 mL of formula per day. Although human milk contains small amounts of vitamin D, it is not enough to prevent rickets.
- Preterm infants should receive multivitamin supplements while breastfeeding.
- Iron supplementation should be given only to preterm neonates. However, there are exceptional circumstances in which term neonates should receive iron supplementation—for example, if the newborn has a hematologic disorder or inadequate iron stores at birth. Otherwise, term neonates should receive iron-containing foods beginning at about 6 months. Iron drops, if needed, may be administered while continuing exclusive breastfeeding.
- Oral vitamin K is **not** recommended, as it is not needed or helpful in preventing hemorrhage during the first 4 months of life. The intramuscular dose given at birth is adequate under normal circumstances.
- Supplementary fluoride should **not** be provided during the first 6 months of life.

DOHMH HOME-VISITING PROGRAMS: BREASTFEEDING SUPPORT FOR NEW MOTHERS

Newborn Home Visiting Program

Visits are provided to mothers who have recently given birth and who live in North and Central Brooklyn, the South Bronx, and in East and Central Harlem. Call 311 or the neighborhood office: 646-253-5700 (Brooklyn), 718-579-2878 (Bronx), 212-360-5942 (Harlem).

Nurse-Family Partnership (NFP)

NFP is a home visiting program for low-income, first-time mothers that operates at 10 sites, including: Astoria, Coney Island, East New York, Harlem, Jamaica, the South Bronx, and Staten Island. Women can enroll in the program until the 28th week of pregnancy by calling 311 and asking for NFP. Also see: www.nycnfp.com.

TABLE 6. STORING AND USING BREAST MILK

- Store breast milk in the refrigerator or on ice, in glass or plastic containers.
- Avoid using plastic containers with recycling numbers 3, 6, and 7, or are old or heavily used, to minimize the risk of chemicals leaching into breast milk.
- Use refrigerated milk within 2 days, well before appreciable bacterial growth occurs.
- For longer storage, freeze as soon as possible and keep at the lowest and most constant temperatures available. Frozen milk can be stored for 3 to 6 months.⁶⁷
- Date milk and use in the order it was frozen.
- Thaw frozen milk quickly under running water or gradually in the refrigerator.
- Do not leave expressed milk out at room temperature for more than 4 to 8 hours, expose it to very hot water, or put it in the microwave to heat or thaw.
- Once thawed, use within 24 hours or discard.⁵¹

Breastfeeding when mothers return to work

Inquire about plans to return to work or school and help mothers develop strategies for continuing breastfeeding after resuming work. For a working mother, pumping is often the best strategy for maintaining her milk supply and providing breast milk to her baby for feeding by a caregiver. Alert patients to the possibility that there may be a reduction in breast milk volume associated with returning to work. While supplementation is sometimes needed, it can often be avoided or reduced through continuing morning and night-time breastfeedings and routine pumping while at work. Employers are increasingly supportive of accommodating breastfeeding employees by designating private spaces for pumping and providing designated refrigerated storage for pumped milk. Encourage pregnant women to speak with their employers about a plan for breastfeeding when they return to work. Tips for storing and using breast milk are provided in **Table 6**.

Breastfeeding in public

Let mothers know that it is their legal right to breastfeed in any public area.

Continued breastfeeding at 6 months and beyond

Beginning at 6 months, complementary foods rich in iron should be introduced gradually. However, continue to encourage breastfeeding, emphasizing the

BREASTFEEDING – KEY POINTS

- Eight to 12 feedings at the breast should be provided every 24 hours, whenever the baby shows early signs of hunger such as increased alertness, physical activity, mouthing, or rooting. In the early weeks after birth, nondemanding infants should be awakened to feed if 4 hours have elapsed since the beginning of the last feeding.
- Both breasts should be offered at each feeding for as long a period as the infant remains at the breast. The first breast offered should be alternated with each feeding so that both breasts receive equal stimulation and draining.
- Pacifiers should be avoided until breastfeeding is well established.
- Water and juice are unnecessary for breastfed infants and may introduce contaminants or allergens. Supplements (water, glucose water, formula, and other fluids) should not be given to breastfeeding newborns, unless medically indicated.
- All breastfed infants should receive 1.0 mg of vitamin K₁ oxide intramuscularly after the first feeding is completed and within the first 6 hours of life. Oral vitamin K is not recommended.
- All breastfed infants should receive 200 IU of oral vitamin D drops daily beginning during the first 2 months of life and continuing until the daily consumption of vitamin D-fortified formula or milk is 500 mL.
- Supplementary fluoride should not be provided during the first 6 months of life.
- Complementary foods rich in iron should be introduced gradually beginning around 6 months of age.

health and developmental benefits for mother and child. Infants weaned before 12 months should receive iron-fortified infant formula, not cow's milk.

SUMMARY

Infants and mothers both benefit enormously from breastfeeding. Health care providers play a key role throughout pregnancy and in the postpartum period to encourage patients to breastfeed. Complementary counseling and instruction provided by lactation consultants and other health educators are also recommended. ♦

RESOURCES

For Patients

American College of Obstetrics and Gynecology

- Breastfeeding Your Baby
www.acog.org/publications/patient_education/bp029.cfm

NYC Department of Health and Mental Hygiene

- Breast-Feeding Your Baby
www.nyc.gov/html/doh/downloads/pdf/ms/ms-bro-breastfeeding.pdf
or call the Women's Healthline at 311
- Yes, You Can Breastfeed in Public (palm card)
Call the Women's Healthline at 311

NYS Department of Health

- Growing Up Healthy Hotline: 1-800-522-5006

La Leche League

- Breastfeeding Answers from La Leche League
www.llli.org/nb.html or call 212-569-6036

Breastfeeding.com

National Women's Health Information Center

- Breastfeeding — Best for Baby. Best for Mom.
www.4woman.gov/breastfeeding
- An Easy Guide to Breastfeeding 1-800-994-9662
All women (English): www.4woman.gov/pub/BF.General.pdf
African American women: www.4woman.gov/pub/BF.AA.pdf
Spanish-speaking women:
www.4woman.gov/espanol/publicaciones/lactancia.pdf
Chinese-speaking women: www.4woman.gov/pub/BF.Chinese.pdf

Centers for Disease Control and Prevention

- www.cdc.gov/breastfeeding

Lactation consultants:

- All HHC hospitals have lactation consultants
- For a listing of certified lactation consultants, go to www.ilca.org

Resource listings are provided for informational purposes only and do not imply endorsement by the NYC DOHMH.

WIC Program

- All About Breastfeeding: www.breastfeedingpartners.org/about_breastfeeding/all_about_breastfeeding.html
- How WIC Supports Breastfeeding:
www.breastfeedingpartners.org/what_is_WIC/WIC_supports_breastfeeding.html
- To apply for WIC benefits, call the Growing Up Healthy Hotline: 1-800-522-5006

For electric breast pumps and supplies:

- Medela, Inc. 1-800-835-5968
- Hollister/Ameda-Egnell 1-866-992-6332

Videos/DVDs on breastfeeding

- Geddes Productions
www.geddesproduction.com or call 1-323-344-8045

For Clinicians

American Academy of Pediatrics

- Ten steps to support parents' choice to breastfeed their baby
www.aap.org/breastfeeding/tenSteps.pdf
- American Academy of Pediatrics, American College of Obstetricians and Gynecologists. Breastfeeding handbook for physicians. Elk Grove Village, IL: AAP; Washington, DC: ACOG; 2006.
- Breastfeeding and the Use of Human Milk – Section on Breastfeeding. Available at:
<http://aappolicy.aappublications.org/cgi/reprint/pediatrics;115/2/496.pdf>

US Department of Health and Human Services/Ad Council

- Breastfeeding posters for office
www.4women.gov/breastfeeding/index.cfm?page=adCouncil

The Academy of Breastfeeding Medicine www.bfmed.org

Drugs and Lactation Database (LactMed)

<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?LACT>
www.BreastfeedingBasics.com (free online course)

Video/DVD on Breastfeeding

- The Benefits of Breastfeeding www.eaglevideo.com/bbvideo.htm
or call 1-800-838-5848

References Available Online: www.nyc.gov/html/doh/downloads/pdf/chi/chi27-3.pdf

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DOHMH JOB OPENINGS: Nurse Careers: Nurse-Family Partnership Nurses (home visiting nurses to partner with first-time mothers), School Nurses, and Newborn Home Visiting nurses. View jobs at www.nyc.gov/health/careers.



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ENCOURAGING AND SUPPORTING BREASTFEEDING

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Continuing Education Activity

Encouraging and Supporting Breastfeeding

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THE NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE (DOHMH)

CITY HEALTH INFORMATION

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Objectives

At the conclusion of the activity, the participants should be able to:

1. Help providers who care for pregnant women assess whether breastfeeding is the best option for their patients.
2. Ensure that providers understand the many benefits of breastfeeding for both mother and baby.
3. Offer providers, regardless of discipline (RN, MD, R-PA, etc.), suggestions and examples they can use to educate women and support exclusive breastfeeding and increase breastfeeding duration.
4. Utilize anticipatory guidance on breastfeeding from the first prenatal visit to throughout pregnancy, at delivery, and during the first six months of the infant's life.

Accreditation

New York City Department of Health and Mental Hygiene (NYC DOHMH) is accredited by the Medical Society of the State of New York to sponsor continuing medical education for physicians. The NYC DOHMH designates this continuing medical education activity for a maximum of 1.00

AMA PRA Category 1 credit(s)TM. Each physician should only claim credit commensurate with the extent of his/her participation in the activity.

Participants are required to submit name, address, and professional degree. This information will be maintained in the Department's CME program database. If you request, the CME Program will verify your participation and whether you passed the exam.

We will *not* share information with other organizations without your permission, except in certain emergencies when communication with health care providers is deemed by the public health agencies to be essential or when required by law. Participants who provide e-mail addresses may receive electronic announcements from the Department about future continuing education activities as well as other public health information.

Participants must submit the accompanying exam by March 30, 2009.

CME Faculty:

Heather S. Lipkind, MD, MS
Lorraine C. Boyd, MD, MPH

All faculty are affiliated with the NYC DOHMH. The faculty does not have any financial arrangements or affiliations with any commercial entities whose products, research, or services may be discussed in this issue.

CME Activity Encouraging and Supporting Breastfeeding

1. Which of the following is an absolute contraindication to breastfeeding?

- A. Mothers who have cesarean deliveries.
- B. Mothers who had breast surgery, including breast augmentation or reduction.
- C. Mothers who have HIV.
- D. Mothers who have hepatitis B.

2. The following are maternal benefits of breastfeeding:

- A. Accelerated weight loss and return to pre-pregnancy weight.
- B. Decreased risk of mother developing ovarian and post-menopausal breast cancer.
- C. Money saved by not buying formula (estimated conservatively at \$1,000 per year).
- D. All of the above.

3. The following are infant benefits of breastfeeding:

- A. Decreased incidence of many infectious diseases during and even beyond the period of breastfeeding.
- B. Reduced risk of post-neonatal mortality.
- C. Possible long-term health benefits, including decreased risk of SIDS, diabetes, obesity, and asthma.
- D. All of the above.

4. All of the following statements about vitamin and mineral supplementation for breastfed infants are true EXCEPT:

- A. Preterm infants should receive multivitamin supplements while breastfeeding.
- B. Oral vitamin K is recommended, as it is helpful in preventing hemorrhage during the first four months of life.

- C. In most instances, iron supplementation should be given only to preterm infants.
- D. Supplementary fluoride should not be provided during the first six months.

5. Concerning the breastfeeding infant's first visit to the provider at 3 to 5 days of age, all of the following statements are true EXCEPT:

- A. Weigh the infant, and if weight loss (from birth weight) is greater than 10%, conduct a more intensive evaluation to see if the infant is receiving insufficient nourishment.
- B. Look for signs of jaundice and dehydration.
- C. Inquire about and address maternal breast problems, e.g., engorgement, painful feedings.
- D. Refer to a lactation specialist or support group, as needed.

6. How well did this continuing education activity achieve its educational objectives?

- A. Very well
- B. Adequately
- C. Poorly

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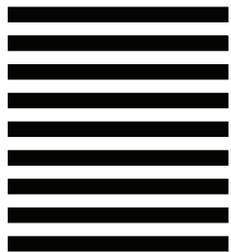
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Read this issue of *City Health Information* for the correct answers to questions. To receive continuing education credit, you must answer 4 of the first 5 questions correctly.

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