

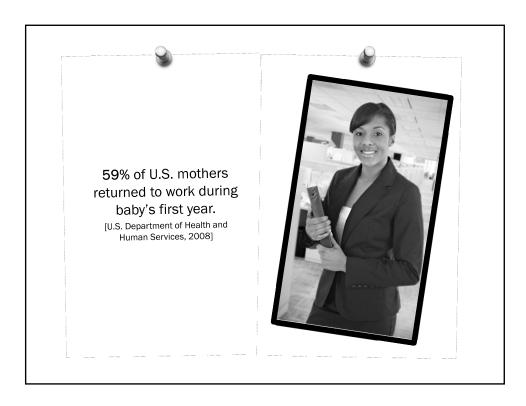




### About you

- When returning to work?
- Work schedule?
- Pump: do you have one and have you started using it?
- Bottle: have you chosen what bottles to use and has your baby taken one?
- Plans for when and where to pump?
- Feel supported at work?
- *o* OTHER QUESTIONS?







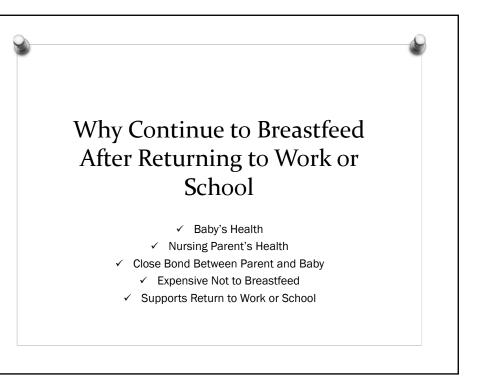
"Low-income women, among whom African American and Hispanic women are overrepresented, are more likely than their higher-income counterparts to return to work earlier and to be engaged in jobs that make it challenging for them to continue breastfeeding." [CDC, accessed 2017]

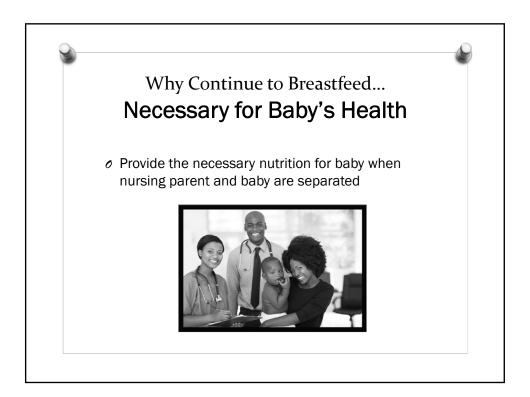


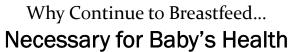
# Outline

- ✓ Why Continue to Breastfeed after Returning to Work or School
- ✓ Preparing to Return to Work/School
- ✓ Back at Work/School
- ✓ Additional Resources









Protection from illnesses

Infants in childcare settings are exposed to more illness

Respiratory infections Ear infections Asthma Allergies

Digestive track infections Type I Diabetes

SIDS



# Why Continue to Breastfeed... Necessary for Nursing Parent's Health

 Protection for mothers against a variety of health issues increases with duration of breastfeeding

Breast, uterine, and ovarian cancers

Diabetes

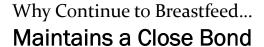
Osteoporosis

Cardio-vascular disease

...and more









- Keeps a special connection between nursing parent and baby even when they are separated
- Makes it easier to keep breastfeeding when nursing parent and baby are together

Expressing milk during times of separation helps maintain healthy milk production



Why Continue to Breastfeed...

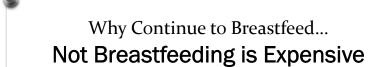
# Not Breastfeeding is Expensive

Formula is expensive

A mother who switches to formula when she returns to work at 3 months spends between \$543 and \$2,404 on infant formula by the time her baby turns a year old. [Bonyata, 2005]

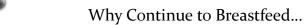
WIC may provide incentives, such as additional food, for nursing parents. [MO Dept of Health and Human Services, accessed 2018]





 Not breastfeeding results in higher medical costs for both nursing parent and baby





# Supports Nursing Parent's Return to Work or School

Easier to return to work or school

86-92% of breastfeeding employees returned to work after childbirth compared to national average of 59% [U.S. Department of Health and Human Services, 2008]

Less missed work or school

Breastfeeding mothers have up to half the number of 1 day absences of formula-feeding mothers. [U.S. Department of Health and Human Services, 2008]

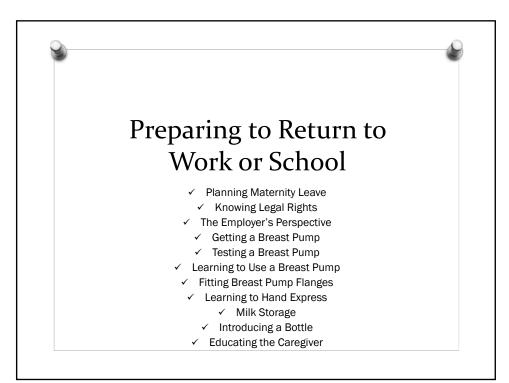


# Supports Nursing Parent's Return to Work or School

Lower stress levels

Oxytocin, the hormone which causes the milk to release, "causes a decrease in aggressive and defensive feelings, ..., makes you calmer, ... and may also help with relationships outside your family." [Mohrbacher & Kendall-Tackett, 2010]

Oxytocin "influence" mybreastfeedingcartoons.blogspot.com







# Preparing to Return to Work or School... Planning Maternity Leave

- The longer the maternity leave, the more time mother has to establish breastfeeding before returning to work or school
- Returning to work or school gradually can help the transition

Start back at work or school on a Thursday Start back to work or school part-time



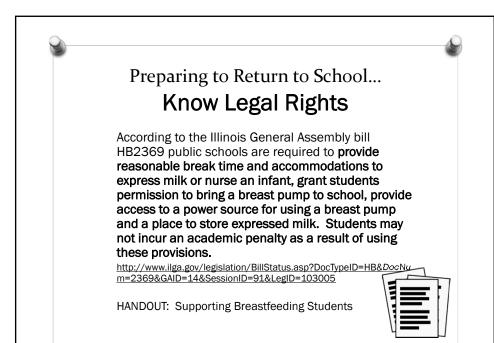


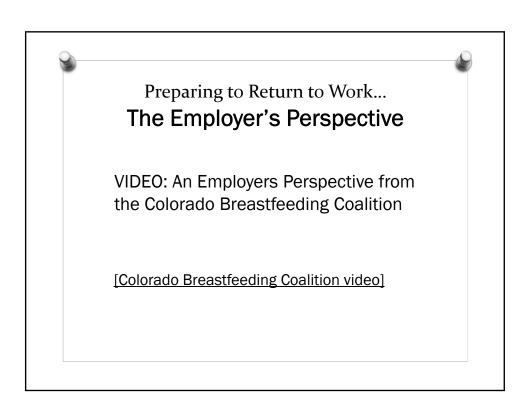
# Preparing to Return to Work or School...

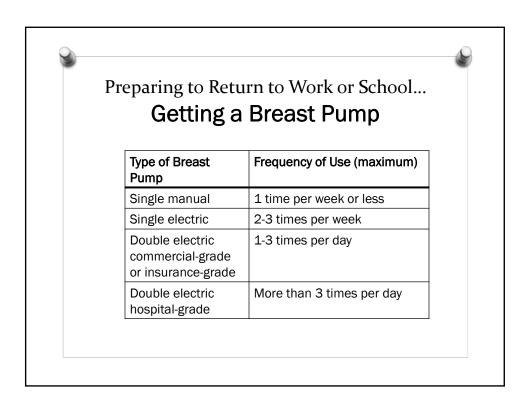
# **Know Legal Rights**

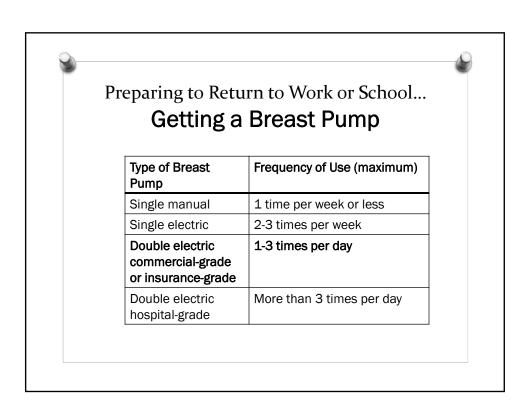
Section 4207 of the Patient Protection and Affordable Care Act (also known as **Health Care Reform**) amended the Fair Labor Standards Act (FLSA). The amendment requires employers to provide reasonable break time and a private, non-bathroom place for nursing mothers to express breast milk during the workday, for one year after the child's birth.

[United States Department of Labor, 2010]













## **Getting a Breast Pump**

New or Used

- A hospital-grade breast pump is FDA approved for multiple users and is durable enough for frequent, long-term use
- Concerns with used commercial-grade and insurance-grade breast pumps

Motor is not designed to last

Viruses can be transmitted between users (open system)

Yeast can grow inside pump (open system)





### Preparing to Return to Work or School...

## **Getting a Breast Pump**

Brand of Breast Pump

Not all brands are created equal!

If a brand manufactures a hospital-grade breast pump, it is more likely to be a quality brand. If a brand manufactures bottles or infant formula, it is more likely to be an inferior brand.

 New breast pumps constantly arrive on the market.

Ask others for recommendations: a friend, LLL Leader, WIC Peer Counselor, IBCLC. (Note: Online recommendations may not be reliable.)





# **Getting a Breast Pump**

Brand of Breast Pump

#### Consider attributes

- Adjustable controls for speed and suction
- Battery pack
- Built-in bottle holders
- O Closed system barrier to protect from mold, bacteria, viruses
- Flange sizes
- O Universal kit same kit as used for all pumps by this brand
- O Warranty
- Weight
- WHO Code Compliant Company





### Preparing to Return to Work or School...

## **Getting a Breast Pump**

World Health Organization's International Code of the Marketing of Breastmilk Substitutes, aka The WHO Code

"The primary purpose of the 'WHO-CODE' is to protect mothers and babies from the highly effective, aggressive and predatory marketing of substitutes for breastfeeding (i.e. infant formula, bottles, artificial nipples) at the most vulnerable period of their lives, the birth of a new baby." (Forbes, 2011)



## **Getting a Breast Pump**

**Brand of Breast Pump** 

Available through Medicaid:

- Ameda Purely Yours
- Ardo Calypso Essentials
- Medela Advanced Starter Set

#### **HANDOUT**

Medicaid Insurance Pump Comparison





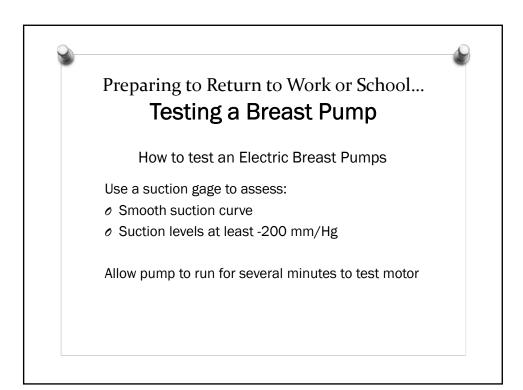


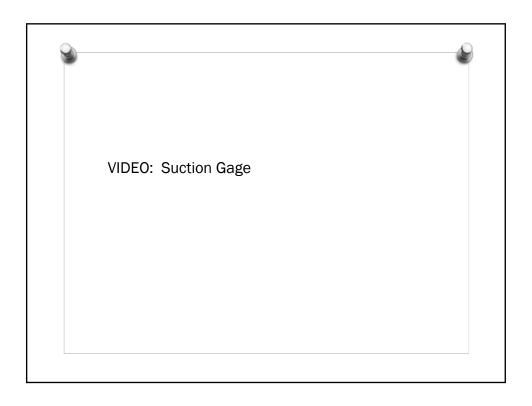
Preparing to Return to Work or School...

# **Testing a Breast Pump**

When To Test a Breast Pump:

- Pump is used previously
- Pump not effective in expressing milk
- Pump seems to be "struggling" or "making funny noises"







## 6

# Preparing to Return to Work or School... Learning to Use a Breast Pump

 Start pumping about a month before returning to work

For practice – pumping is a learned skill!

To store in freezer for first day back and emergency back-up

How much should be stored for the first day back? One day's worth plus some emergency back-up. For most full-time situations, 30-45 ounces is plenty to have on hand the first day – that amount to about 10-12 bottles for a >1 month-old baby.





# Preparing to Return to Work or School... Learning to Use a Breast Pump

 Most parents will pump for 15-20 minutes







# Preparing to Return to Work or School... Learning to Use a Breast Pump

 Typical output per pumping session varies by age of baby and breast storage capacity

Pumping output at a missed feeding is at least an average feeding for a baby of that age.

Pumping after breastfeeding will be considerably less

**Breast storage capacity** = maximum amount expressed at a single pumping session, which is usually the first morning pumping





# Preparing to Return to Work or School... Learning to Use a Breast Pump

 Typical output per pumping session varies by age of baby and breast storage capacity

Nursing parents with smaller breast storage capacities will not only need to pump more frequently than those with medium or larger breast storage capacities, they may also need to breastfeed more frequently.

Nursing parents with larger breast storage capacities are also more likely to feed from one breast per breastfeeding session.





# Learning to Use a Breast Pump

 Typical output per pumping session varies by age of baby and breast storage capacity

Maximum amount expressed in a pumping session

		•		
Breast Storage Capacity	3 days	1 week	2 weeks	>1 month
Smallest				1-2 oz
Small				2-3 oz
Medium	1 oz	1.5 oz	2-2.5 oz	3-5 oz
Large				5-9 oz

[Mohrbacher, 2014]



Largest



10-15 oz

# Preparing to Return to Work or School...

## Fitting Breast Pump Flanges

- Many brands of breast pump have several sized flanges available.
- Having a correctly fitting shield can significantly improve the comfort and output from a breast pump
- Signs that the breast shield may not fit properly: nipple rubbing along the shaft of the breast shield discomfort during pumping inadequate output from the pump

[Kassing, 2011]



# Fitting Breast Pump Flanges

**VIDEO:** Flange-fitting

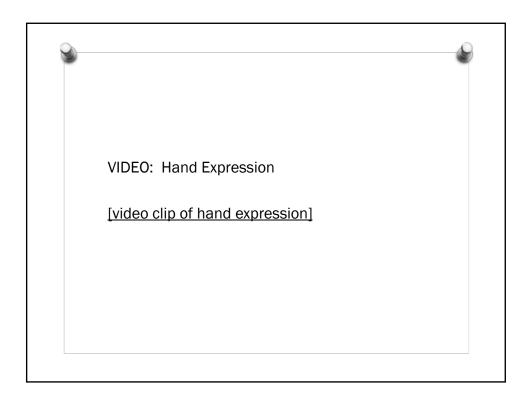
https://www.youtube.com/watch?v=68mPSvtdhcU&list=PL9hKPtJid7hT8aEBCxJTN9GgylAhz7kCl&index=3

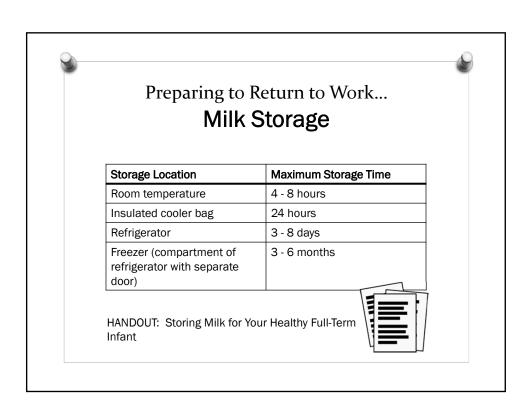




# Preparing to Return to Work or School... Learning Hand Expression

- Mothers who hand express have improved breastfeeding outcomes [Flaherman et al, 2011]
- Hand expression can help mothers to increase pumping output
- Hand expression is your emergency back-up system



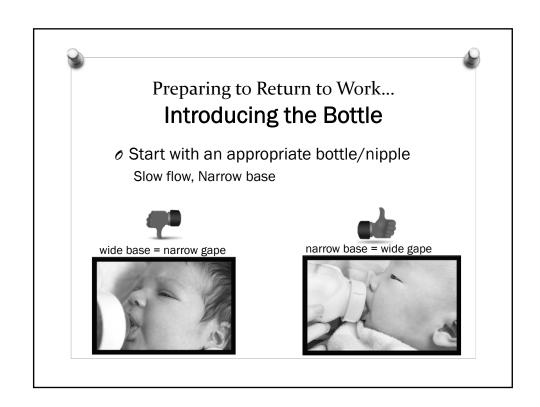


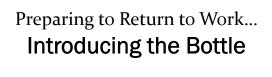


- Label storage container (bag or bottle) with nursing parent's name and the date the milk was expressed
- Store milk to be frozen in small containers (2-3 ounces)



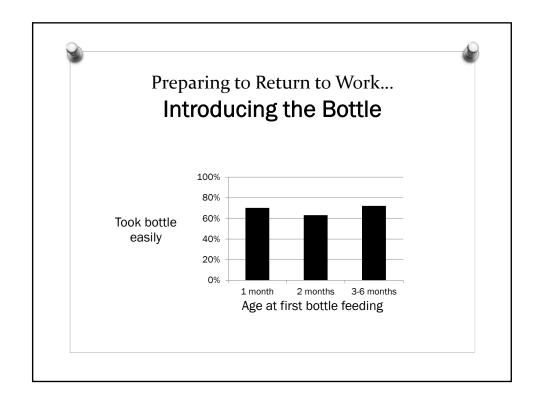
Photo used under Creative Commons from hoi polloi

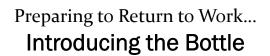




 Introduce the bottle after baby has been breastfeeding well for 3-4 weeks [Mohrbacher, 2010]

Too early can disrupt the breastfeeding relationship Most babies will readily accept the bottle regardless of their age when it is introduced [Kearney & Cronenwett, 1991]





 Babies will generally transition to the bottle more easily when:

> Nipple is slow-flow Nursing parent is not around Baby not too hungry





# During Maternity Leave... Educating the Caregiver

Provide caregiver with milk storage guidelines

HANDOUT: Storing Milk for Your Healthy Full-Term Infant



 Ask caregiver to use refrigerated milk before frozen milk (unless frozen milk is about to expire)

Some of the beneficial properties of the milk are lost during freezing



# During Maternity Leave...

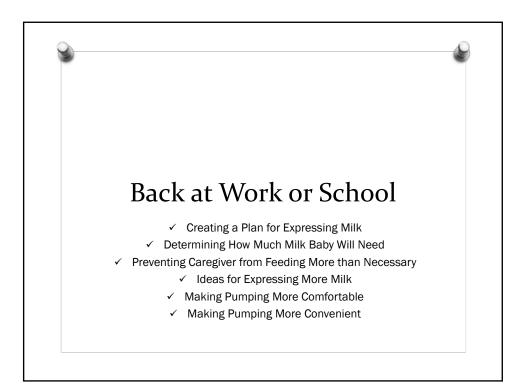
# **Educating the Caregiver**

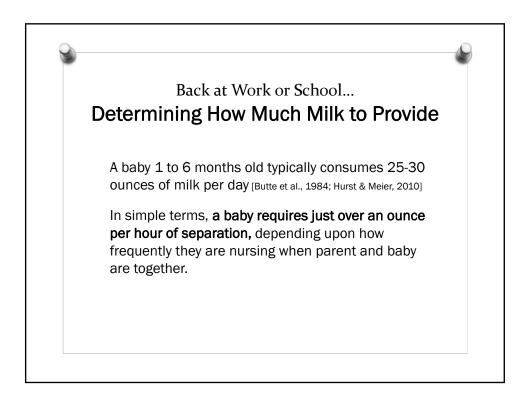
Suggest caregiver bottle-feed in a way that supports breastfeeding:

- Feed when baby exhibits hunger cues, rather than on a schedule
- Do not feed a hungry baby if nursing parent is arriving soon. Offer distraction or pacifier instead
- O Use upright bottle-feeding

HANDOUT: Bottle-Feeding a Breastfed Baby: Ideas for Day Care and Others











### Back at Work...

# Creating a Plan for Expressing Milk

Pumping typically takes 15-20 minutes (double pumping)

Allow time to set-up and put away breast pump Allow travel time to pumping location

 Plan to pump 2-3 times during a 9-10 hour separation

Frequency of pumping depends on the mother's breast storage capacity [Mohrbacher, 2011], effectiveness of the breast pump, etc.





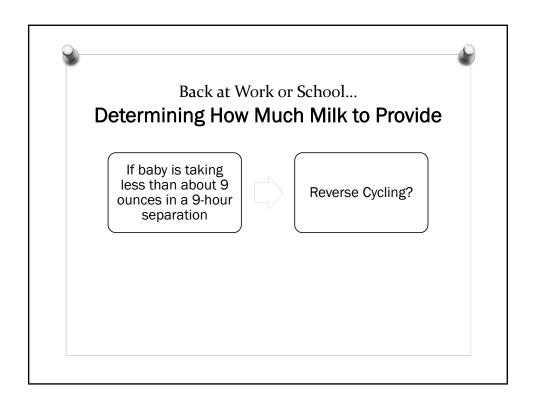
### Back at Work...

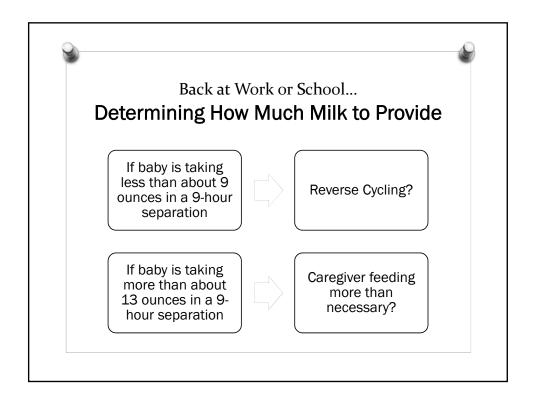
# Creating a Plan for Expressing Milk

 Nursing parents with a smaller breast storage capacity will need to pump more often than those with larger breast storage capacities

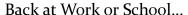
Breast Storage Capacity	Maximum amount expressed in a pumping session for babies >1 month	
Smallest	1-2 oz	
Small	2-3 oz	
Medium	3-5 oz	
Large	5-9 oz	
Largest	10-15 oz	

[Mohrbacher, 2014]









# Avoiding Caregiver Feeding More Than Necessary

- Offer no more than 4 ounces in a bottle. A typical feeding for a baby 1 to 6 months old is 3-4 ounces [Mohrbacher & Kendall-Tackett, 2010]
- Neep bottle-feeding slow-flow so that baby's brain will have time register a full tummy: Use a newborn or slow-flow nipple on the bottle regardless of the baby's age. [Kassing, 2002]



### Back at Work or School...

# Avoiding Caregiver Feeding More Than Necessary

- Allow baby to control how much she is eating by using upright bottlefeeding and listen to baby's cues about when to end the feeding.
- Avoid throwing away milk. If the baby does not finish a bottle, then put it in the refrigerator until the next feeding. [Brusseau, 1998]





#### Back at Work...

# Avoiding Caregiver Feeding More Than Necessary

o If baby is hungry and nursing parent is expected to arrive within 15 minutes, offer a pacifier or another distraction to help baby wait until nursing parent arrives and can breastfeed.



www.bigstockphoto.com



### Back at Work...

# Avoiding Caregiver Feeding More Than Necessary

- o If baby is eating solid foods, then caregiver can give baby all or most of the solids while baby exclusively breastfeeds at home.
- o If baby is communicating that she really needs more milk than the data above indicate, then that is what she needs.





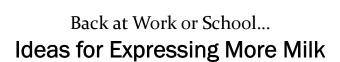
# Back at Work or School...

## Ideas for Expressing More Milk

### Express more often

During separation: If nursing parent is expressing less frequently than approximately every 2.5 hours, then increase the frequency of pumping if possible

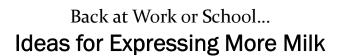
While at home: Add a pumping session at home – first thing in the morning after (or while) nursing baby often works well



For nursing parents who leak from the breast they are not nursing from, collect milk for that breast while nursing:

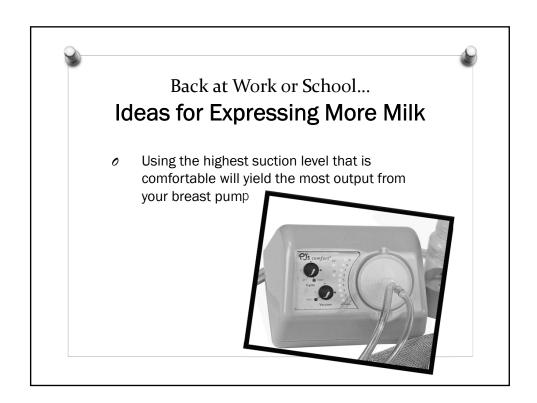
Haakaa silicone hand pump

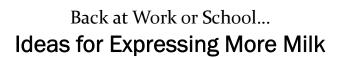




 Breastfeed more often when nursing parent and baby are together

> It is not uncommon for mothers to report a drop in milk production when baby sleeps through the night. Resuming nighttime nursing can help [Kucharczk, 2010]

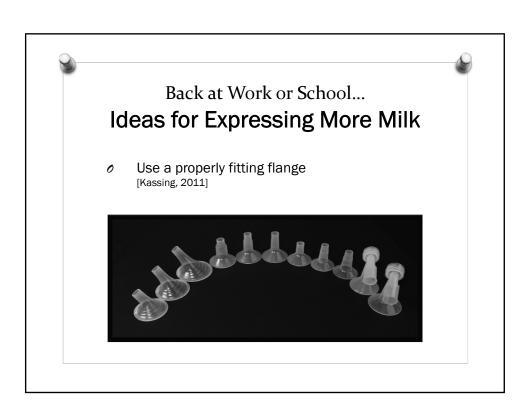


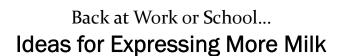


 Adjust pump settings to elicit additional milk ejections (let-downs):

<u>Let-down phase</u>: faster cycling, lower suction <u>Expression phase</u>: slower cycling, higher suction

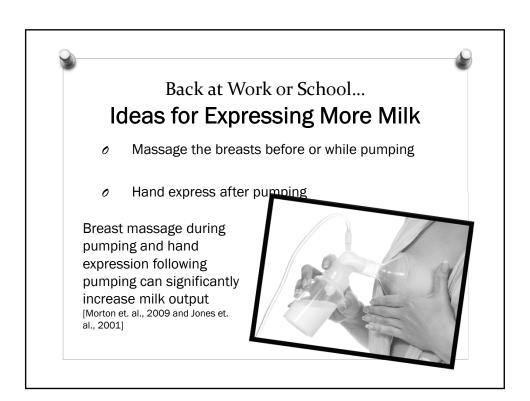
Start with let-down phase until milk releases, then switch to expression phase. Once milk flow slows, return to let-down phase and repeat.





Upgrade breast pump.

Replace worn parts (membrane, valve, or gasket depending upon pump) Upgrade to a quality pump Upgrade to a new pump Upgrade to a hospital-grade pump





## Back at Work or School...

# Ideas for Expressing More Milk

### VIDEO:

Maximizing Milk Production with Hands On Pumping from Stanford Newborn Nursery



## 0

### Back at Work or School...

# Ideas for Expressing More Milk

### Sensory stimulation

Any sensory input that reminds nursing parent of her baby will help her milk to flow:

visual - picture of baby

smell - unwashed baby blanket

sound - recording of baby sounds

etc.



### Back at Work or School...

## Ideas for Expressing More Milk

O Distraction

Don't watch the bottles! Cover bottles with a receiving blanket. Read, talk on the phone, use the computer, etc.

Visualization and Relaxation
 Imagine a waterfall or other image
 Hypnosis for pumping mothers





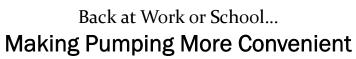


# Back at Work or School... Making Pumping More Comfortable

- Adjust breast pump settings
- O Consider a larger flange [Kassing, 2011]
- Use olive oil, coconut oil, or a slippery nipple cream to add lubrication to the flanges
- o Consider an alternative style flange, such as Pumpin' Pal.

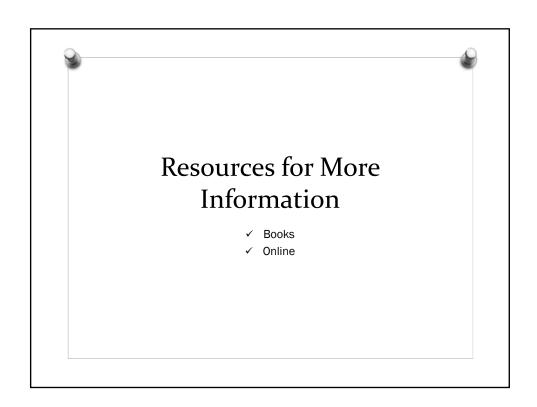


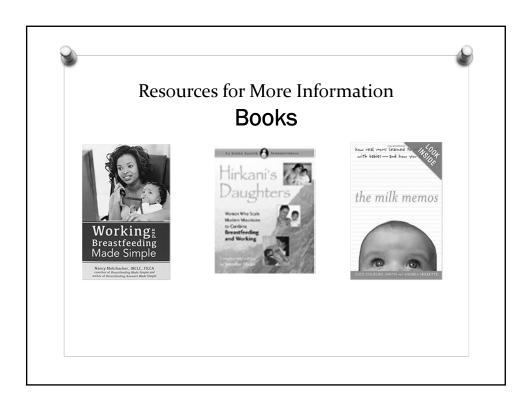
www.pumpinpals.com

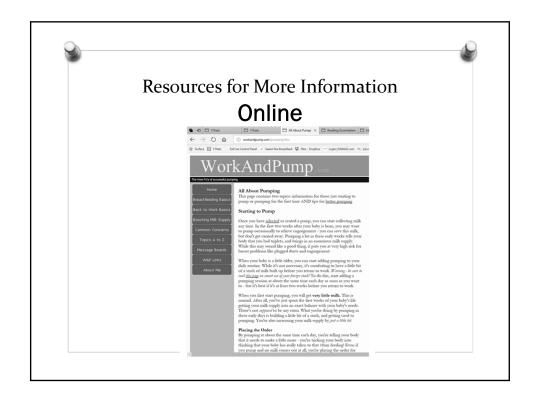


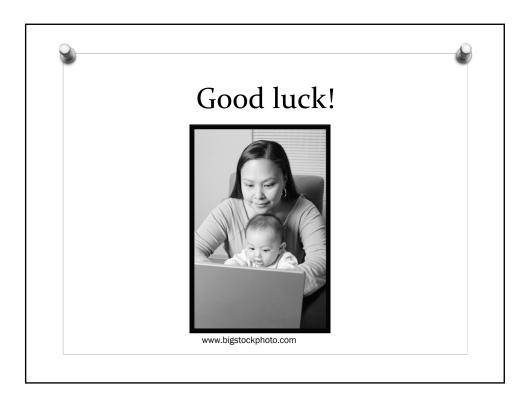
- *o* Pump Hands-Free
- Rechargeable pump or batterypack available for pump

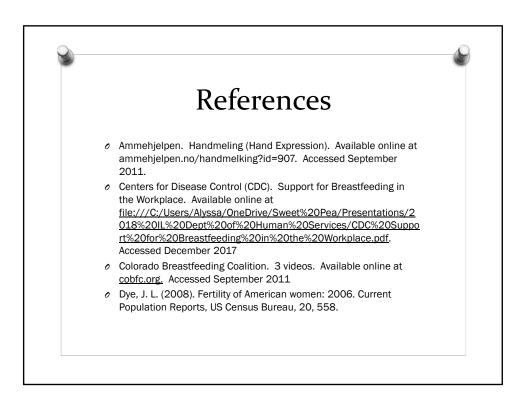
















# References

- Flaherman, Gray, Scott, Avins, Lee, and Newman (2011)
   Randomized Trial Comparing Hand Expression with Breast
   Pumping of Term Newborns Feeding Poorly, Arch Dis Child Fetal
   Neonatal Ed, doi:10.1136. Accessed September 2012
- Jones, Dimmock, and Spencer. A Randomized Control Trial to Compare Methods of Milk Expression after Preterm Delivery. Archives of Disease in Childhood. Fetal and Neonatal Edition, 2001, 85(2), F91-95
- Kassing, D. (2002) Bottle-feeding as a Tool to Reinforce Breastfeeding. Journal of Human Lactation. 18(1), 56-60
- Kassing, D. Fitting Mothers with Pump Flanges. La Leche League of Missouri Breastfeeding and Parenting Conference, June 2011
- Kearney, M. H., & Cronenwett, L. (1991). Breastfeeding and employment. Journal of Obstetric, Gynecologic, and Neonatal Nursing, 20(6), 471-480





## References

- Kellymom. Financial Costs of Not Breastfeeding. Available online at <u>kellymom.com/bf/start/prepare/bfcostbenefits.html</u>. Accessed September 2011
- Kucharczk, S. personal communication 2010
- La Leche League International. Tear-Sheet Toolkit. Available online at <u>Illi.org/toolkit</u>. Accessed September 2011
- La Leche League International, The Womanly Art of Breastfeeding, 8<sup>th</sup> ed. New York, Ballantine Books, 2010
- Missouri Department of Health and Human Services.
   Breastfeeding. Available online at <a href="http://health.mo.gov/living/families/wic/foodpackages/breastfeeding.php">http://health.mo.gov/living/families/wic/foodpackages/breastfeeding.php</a>. Accessed January 2018
- Mohrbacher, N., The Magic Number and Long-Term Milk Production, Clinical Lactation, 2011; 2: 15-18





# References

- Mohrbacher, Working and Breastfeeding Made Simple, Amarillo, Praeclarus Press, 2014
- Mohrbacher and Kendall-Tackett, Breastfeeding Made Simple: Seven Natural Laws for Nursing Mothers, 2<sup>nd</sup> ed., Oakland, CA, New Harbinger Publications, Inc., 2010
- Morton, Hall, Wong, Thairu, Benitz, and Rhine. Combining Hand Techniques with Electric Pumping Increases Milk Production in Mother's of Preterm Infants, Journal of Perinatology, 2009, 29(11): 757-764
- Stanford Newborn Nursery. video: Maximizing Milk Production.
   Available online at <u>newborns.stanford.edu/breastfeeding</u>.
   Accessed September 2011





# References

- United States Department of Health and Human Services. The Business Case for Breastfeeding. Available online at womenshealth.gov/breastfeeding/government-in-action/businesscase-for-breastfeeding. Accessed September 2011
- United States Department of Labor. Break Time for Nursing Mothers. Available at dol.gov/whd/nursingmothers. Accessed September 2011
- Work and Pump. Available online at <u>workandpump.com.</u> Accessed September 2011