

DISCLOSURES
I have written a book <i>Breastfeeding Without Birthing</i> and receive royalties on its sales.
I co-host a podcast
I host an online course Lactation Creation and receive profits
from its sales.

INCLUSIVE LANGUAGE

I am aware that there are many ways to be and become a family. As part of that, I understand that not every nursing parent identifies as "mother". I have attempted to be inclusive in my language to the best of my ability. Please don't hesitate to kindly let me know how I may do better.

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I am also aware that most of my photos do not represent the wide diversity of nursing parents. I am always working towards broadening representation in my photos, and realize I have a long way to go.

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Photos Server MS WORK

THE RESERVE

PRESENTATION OVERVIEW

Why use a breast pump

Alternatives to pumping

Selecting a breast pump

Caring for a breast pump

Breast pump comfort

Breast pump output

Mystella M. Boles

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WHY USE A BREAST PUMP?



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WHY PUMP?	
Separation from baby * Work * School * Hospitalization of nursing parent or baby * Divorce/separation * Travel	
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WHY PUMP? Non-latching baby Temporarily until baby breastfeeds	
Permanently bottle-feeding expressed mllk Fire Servit AG: 18083 *** No. 18083	
WHY PUMP?	
Increase Milk Production * After breastfeeding * Between breastfeeding sessions * At missed breastfeeding	
Ayeas (count his man) O 2012	

WHY PUMP?	
Relactation by a Birthing Parent	
Health needs for baby	<u> </u>
Baby not tolerating formula	
Resume the breastfeeding relationship	
Temporary weaning necessitated by illness or	
medication in mother	
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WHY PUMP?	n 3
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Induced Lactation or Relactation by a Non-Birthing Parent	\$
Adoption	
• Surrogacy	
• Foster care • Co-nursing	
• Trans woman	
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WHY PUMP?

Maintain Milk Production

- · Parent temporarily taking a medication incompatible with breastfeeding
- Parent allows severely damaged nipples to heal

ALTERNATIVES TO PUMPING



ALTERNATIVES TO PUMPING

Hand Expression

- For many parents, hand expression is more effective than pumping colestrum
- Some parents can express more effectively by hand
- Back up if breast pump breaks or electricity goes out • Improves long term breastfeeding outcomes
- Does not require special equipment. Minimal set-up and clean-up time.
- . Used in combination with a breast pump



ALTERNATIVES TO PUMPING

At-breast Supplementation

 Converts "triple feeding" (breastfeeding, bottle-feeding, pumping) into single feeding



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ALTERNATIVES TO PUMPING

If milk production is low, parent may supplement with another mother's milk or infant formula rather than her own.



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ALTERNATIVES TO PUMPING

If medication not compatible, parent may consider whether alternative medication is available.



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SELECTING A BREAST PUMP	
SELECTING A BREAST PUMP Types of breast pumps	
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SELECTING A BREAST PUMP Types of breast pumps Single versus Double	
SELECTING A BREAST PUMP Types of breast pumps Single versus Double Manual versus Electric	
SELECTING A BREAST PUMP Types of breast pumps Single versus Double Manual versus Electric Commercial-grade versus Insurance-grade	

SELECTING A BREAST PUMP

Types of breast pumps

"...the term hospital-grade pump" is not recognized by the FDA and there is no consistent definition for this term, so individual companius could mean different things when they label their breast pumps as hospital-grade. If you are considering renting a pump, ask for references from a trusted health professional such as your doctor, your bathy's doctor or a certified leafation consulted."

http://www.fda.gov/MedicalDevices/Productsands/edicalProcedures/HomeHealTrandCensumer/Consumer/Products/Brass/Pumps/ucm/641962.htm

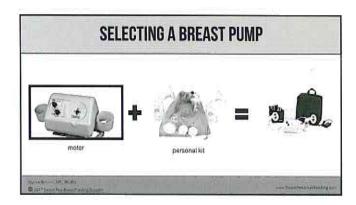
Some other terms for hospital-grade

- Multi-user: some pumps safe for multiple users are not designed to establish/increase milk production
- · Rental-grade: pump may be for sale or for rent

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Once a week or less	Manual	
2 – 3 times per week	Single electric	
1 – 3 times per day	Double electric commercial- grade or insurance-grade	Double electric hospital-grade
More than 3 times per day	Double electric commercial- grade or insurance-grade or hospital-grade	Double electric hospital-grade



SELECTING A BREAST PUMP	- 11.01
Motor: new or used? Multi-user breast pumps are FDA approved for multiple users. They are closed systems, Designed for long-term use. Personal-use breast pumps are designed for a single user. Motor is not designed to last Viruses can be transmitted between users (open system) Yeast can grow inside pump (open system)	
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SELECTING A BREAST PUMP

Personal kit: new or used?

- Always personal use items, whether or not pump is personal use or multi-user
- Can be sanitized
- May not be designed for extended use
- Can be purchased separately



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SELECTING A BREAST PUMP

Choosing a WHO Code Compliant Brand

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."

(Forces, 2011)

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SELECTING A BREAST PUMP

Choosing a WHO Code Compliant Brand

What else does this company make and market?



Bottle nipples

• Bottles

- · Infant formula
- Baby food

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Questions to ask before renting a breast pump:

- 1. Which breast pumps do you rent?
- 2. What rental (erms are available? (monthly, weekly, daily)
- 3. What is the rental fee?
- 4. What is the cost of the personal kit? Will the personal kit I already have be compatible?
- How do you test your pumps between renters to ensure they are working properly? How do you clean your pumps between renters?
- 6. Will you show me how to use the breest pump?
- 7. Do you carry various sizes and styles of flanges, and can you help fit me with the appropriate flanges?
- 8. What happens if I have any problems with or questions about the pump?

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CARING FOR A BREAST PUMP

Care, cleaning, and maintenance



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	CARING FOR A BE	REAS	ST PUMP
Caring for t	preast pump parts		
JN6	Removes all microorganisms	9N	Removes most microorganisms
STERILIZING	Pump parts cannot be sterilized at home, even with boiling (ros. 2013)	SANITIZING	Pump parts can be sterilized at home

CARING FOR A BREAST PUMP

For healthy, full-term babies:

When to sanitize: Before first use

When to wash then sanitize: Between users • Recurrent thrush: ball 20 minutes ance per day (Mentitative, 2010) ● Infections?



When the weaks. Rinse after each pumping session during the day, and then wash at the end of the day (wattoger at at 2018). ■ Wipe with clean paper towel or tissue and store in refrigerator or cooler during the day, and then wash at the end of the day (#wggwn, 2004).

CARING FOR A BREAST PUMP

- How to sanitize:
 Place parts in clean pot lined with a towel
- Fill with water to cover parts
- Bring to boil and continue boiling for 5-15 minutes
- Air dry covered with a clean towel



[Chiu. 2012]

CARING FOR A BREAST PUMP

How to wash:

- Hot, soapy water
- Rinse hot water
- · Place on clean towel
- · Air dry covered with a clean towel



[Chiu, 2012]

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CARING FOR A BREAST PUMP

Total Dishwasher and microwave "sterilization" bags will shorten the life of breast pump parts.

[Chiu. 2012]



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CARING FOR A BREAST PUMP

Breast pump maintenance

Know the warranty

Replace parts that may wear out

- Membrane (Medela, Hygeia)
- Valves (Ameda, Hygela)
- Gasket (Limerick)

Check suction

- * Level to at least -200mm Hg
- Smooth cycling

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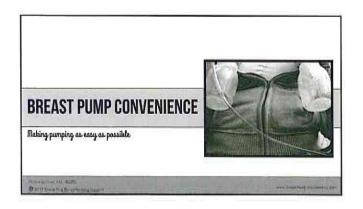
BREAST PUMP COMFORT	
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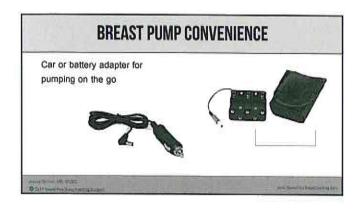
Breast pump settings Does the pump allow user to adjust suction and cycle? Are there fixed or continuous settings? Is there a let-down phase and an expression phase? Cycle: speed/frequency of cycling Vacuum: level of suction Adjust these to your comfort.

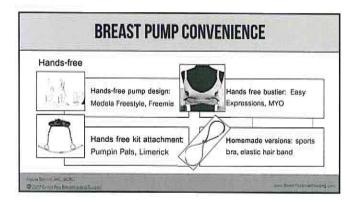
Flange fit Flange size: Nipple/areola should not rub along the tunnel of the flange. Kink in flange should connect about ½ inch from the base of the nipple.

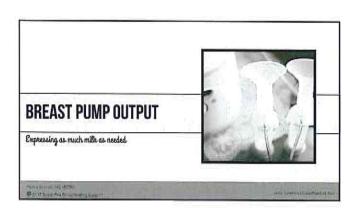
BREAST PUMP COMF	FORT
lange fit	X
Plange stule: An angled flange with a gradual ansilion between cup and tunnel may fit certain reast shapes better. (eg - Pumpin' Pals)	
s soft, flexible flange may feel more comfortable and "more like baby" for some parents (eg - imerick)	8
The NA SIGNAL STATE (COLORS	era Somitalian ferranse

BREAST PUMP CO	MFORT
Lubrication	The Late Was to the Late of th
Use a non-tacky nipple cream (not lanolin), olive oil, or coconut oil on areola to improve pump comfort.	
and horse, art. 4000. 2015 Court For Lower Adap Deart.	the forest of contract









BREAST PUMP OUTPUT	
When a parent chooses the right breast pump and optimizes comfort, breast pump output is likely to be optimized as well: Choosing the right breast pump Flanges fit Breast pump cycle and suction settings	
- Page - Special (MCC) - American Special American Speci	
BREAST PUMP OUTPUT	
Pumping frequency determines output: Start with every 2-3 hours. If sufficient output, increase time between pumping Sulting milk production. After or between feedings Power Pumping: breastfeeding and pumping (044904, 2008) Pumping Holiday: exclusively pumping	
A section to Many O not have been described as a second section of the second section ()	
BREAST PUMP OUTPUT	
Power Pumping mimics the frequency days when babies breastfeed more often than normal during a growth spurt in order to increase their parent's milk production. Nursing parent places breast pump in a location that she passes by frequently throughout the day. Then, each time she passes by the pump or has a few minutes, she pumps for five to ten minutes. She can pump as frequently as every 45 minutes. Power pump for just a few days at a time. Days when both nursing parent and her partner are home or when extra help is available are good choices.	
[Corna 2005] Applie Series 185 (CCC): Part Type 1 to Period Corner to Corn	

BREAST PUMP OUTPUT	·
Boost with Pumping Holiday	
Then nursing parent is off work for a couple of days, she can spend those days doing nothing scept eating healthy high-fiber foods; drinking water, juice, or herbal tea; doing relaxing	
edentary activities such as watching TV, watching movies or reading; and o ት בפעוגה. pumping. uring waking hours on those days, she pumps until she cannot get any more milk from the	
ump, rests for 30 to 60 minutes, and then pumps again.	
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BREAST PUMP OUTPUT	
Hands-On Pumping Using manual techniques in combination with pumping results in greater output than	
oumping on its own.	
3reast Massage	V ========
Massage breasts to elicit a milk ejection before pumping or once the milk stops flowing	
to get a second milk ejection. Massage breasts while pumping, either by pumping one breast at a time or by using a	
hands-free device.	
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BREAST PUMP OUTPUT	
dende On Diversitati	
Hands On Pumping Using manual techniques in combination with pumping results in greater output than	
oumping on its own.	
Hand expression	
After pumping, tip the flange to make a funnel for hand expressing into.	

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Oxytocin Boost

Oxytocin is the hormone responsible for milk release (let-down).

Receiving a massage can boost a nursing parent's oxytocin levels. She can receive a massage between her shoulder blades, on her feet, or wherever while she is pumping.

Laughter and feelings of romance also increase exytocin. Being with partner, reading aromance novel, or watching a rom-com can all help.

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BREAST PUMP OUTPUT

Support flow

Nursing parent can help the milk to let-down by placing a warm compress on her breasts/chest before or during pumping:

- · Warm, moist washcloth
- · Rice pillow heated in the microwave.

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en-terminations

BREAST PUMP OUTPUT

Adjust Attitude

- Collect in smaller containers, such as Snappies
- Look at percentage increase rather than volume.

For example, if output from a pumping session increases from 10ml to 20ml, don't think of it as an increase of only 10ml, think of it as doubling your output!



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BREAST PUMP OUTPUT Sensory inputs can also help trigger the milk to flow: look at a picture of baby sit in the nursery (if baby has not arrived yet) smell something that reminds parent of baby listen to lullables or a recording of baby... Distraction: reading, watching TV, talking on the phone, covering flanges with a blanket Relaxation and hypnosis techniques

Use the Mind

BREAST PUMP (OUTPUT
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