



BCAPOP
Woman-centred Support: Breastfeeding & Beyond

Marianne Brophy
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Objectives

By the end of the session, participants will be able to:

1. Identify the **importance of breastfeeding** as a public health strategy to address inequities/disparities
2. Understand the **enabling role** of support and care providers
3. Support clients to make **informed decisions** re infant feeding using a **trauma-informed** perspective
4. Discuss ways to support a mother to obtain **good latch** and transfer of milk

1. Breastfeeding is important – how are we doing?

Anik's informed decision

Anik is 20 weeks pregnant when she comes to the prenatal clinic. She says has not yet decided how she plans to feed her baby. Many of her friends have told her it does not really matter how she feeds her baby

*What do you need to know to support Anik to make an **informed decision**?*

1,000 DAYS

INFANT FEEDING

“The 1,000 days between a woman’s pregnancy and her child’s 2nd birthday offer a unique window of opportunity to shape healthier & more prosperous futures. The right nutrition during this 1,000 day window can have a profound impact on a child’s ability to grow, learn, and rise out of poverty. It can also shape a society’s long-term health, stability and prosperity.”

<http://www.thousanddays.org/about>

Public Health Agency of Canada (2015)
Centre for Chronic Disease Prevention:
Strategic Plan 2016-2019.

IMPROVING HEALTH OUTCOMES: A Paradigm Shift

Risk and Protective Factors IF WE GET THIS RIGHT...

LIFE COURSE

... WE CAN REDUCE THE IMPACT OF THESE CONDITIONS.

Committing to Action

THE GLOBAL STRATEGY FOR WOMEN'S, CHILDREN'S AND ADOLESCENTS' HEALTH (2016-2030)

SURVIVE THRIVE TRANSFORM

“By investing in women, children and adolescents today, and over the next 15 years, we can save a generation — while benefiting many more to come. But the opportunity and responsibility to act belongs to us, now.”

AMINA MOHAMMED
UNICEF National Strategy Council's Special Advisor
at the 2015 Development Planning

http://www.who.int/pmnch/media/events/2015/gc_2016_30.pdf

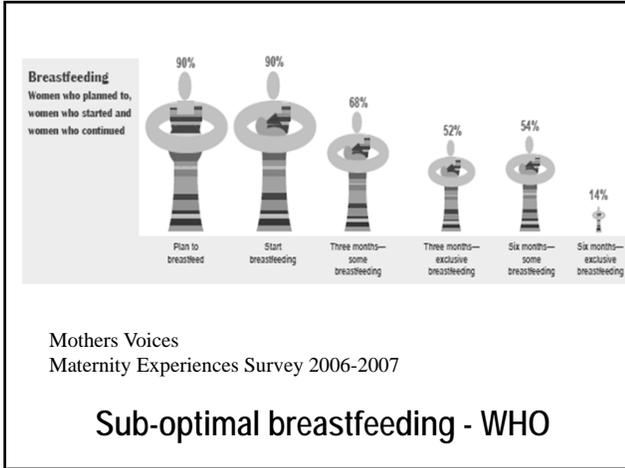
Breastfeeding

Global Recommendations

- Initiate breastfeeding immediately after birth (skin to skin)
- Breastfeed exclusively from birth to 6 months
- Introduce safe and nutritionally adequate table foods from about 6 months
- Breastfeed for 2 years and beyond

Benefits are dose dependent

WHO, Health Canada, Canadian Pediatric Soc, Dietitians of Canada

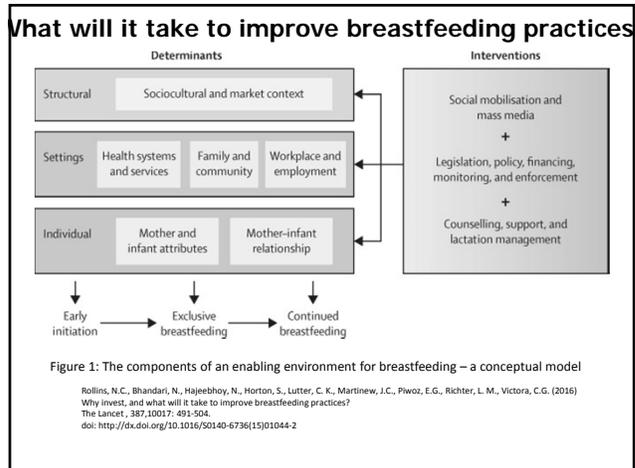


BC breastfeeding rates

Approximately what percentage of babies in BC are exclusively breastfeeding at 6 months?

- a) 5%
- b) 15%
- c) 35%
- d) 75%

2. Big picture context - enabling breastfeeding



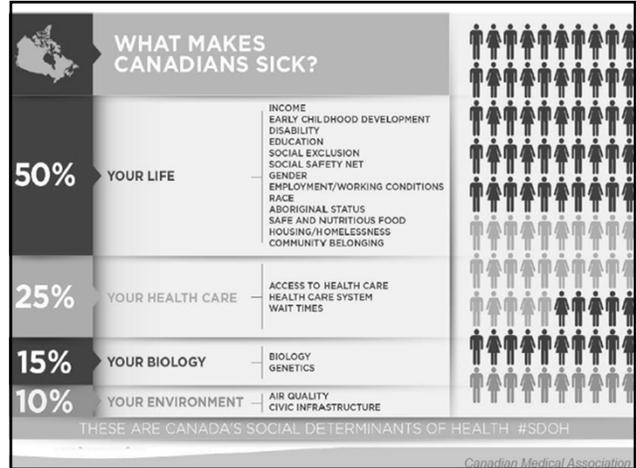
Social Determinants of Health

- The conditions in which people are born, grow, live, work and age (including the health system)
- Shaped by the distribution of money, power and resources at global, national and local levels, which are all influenced by policy choices
- Early childhood development is a key determinant of health

WHO 2010



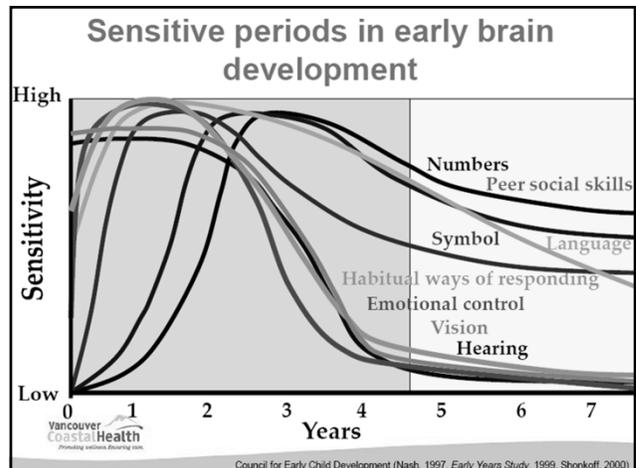
Dr. Mark Lysyshyn MHO



Who is at risk of not breastfeeding?

- Age
- Education
- Socio-economic status
- Culture
- Physical & mental health status
- Support system

Most Vulnerable



Culture...

..exerts a major influence on a mother's attitude towards bf and how she decides to feed her baby. Culture is defined as values, beliefs, norms and practices of a particular group which are learned, shared and guide thinking, decisions and actions in a patterned way .. Without understanding the mother's cultural practices, our care and intervention could do more harm than good."

Riordan, J; Auerbach K (1993)

Breastfeeding and Human Lactation, Jones & Bartlett (p27)

"A community and nation that takes the responsibilities of breastfeeding seriously, that honours and respects the needs of the birthing women to have the time and support they need in order that breastfeeding is established, is a nation that cares about the long term health of its people."

Carol Couchie, NONASOWIN, Union of Ontario Indians, 1995.

Centres for Excellence for Children's Well Being, 2009.

Aboriginal Parents: Eyes on Breastfeeding – More than Loving Contact

Exclusivity & Duration Rates

- mother's intention & positive attitude
- support and encouragement
 - **partner**, family, friends, role models
 - health care providers and systems
 - workplace compatible
 - public spaces – acceptance of bf
 - no advertising by formula companies

Dusdieker LB et al (2006). Prenatal office practices regarding infant feeding choices. Clinical Pediatrics 45

Digirolamo AM et al (2003). Do perceived attitudes of physicians and hospital staff affect breastfeeding decisions? Birth 30 (2)

Client Education Anticipatory Guidance

Health Professionals & peer support

- Influence mother's intention to bf
- Increase maternal confidence
- Enhance the bf experience
- Reduce the risk of early weaning

Bias?

Anik's informed decision

Which approach might positively influence Anik to breastfeed?

- a. Remain neutral to avoid putting pressure on her
- b. Provide information handouts for her to take home and read
- c. Discuss the health outcomes for breastfeeding and make it clear you think breastfeeding is important

Prenatal window of influence

When do women make their decision about how to feed their baby?

- 50% before pregnancy
- 26% during pregnancy
- 11% after birth

Earle S. Factors affecting the initiation of breastfeeding: implications for breastfeeding promotion. Health Promotion International 2002; 17 (3).

Impact of 1 simple face-to-face prenatal breastfeeding discussion

- Significant breastfeeding practice improvement up to 3 months after delivery
- Print and audiovisual ed. materials are not enough

Simple antenatal preparation to improve breastfeeding practice. A randomized controlled trial

Mattar CN ; Chong YS ; Chan YS ; Chew A ; Tan P ; Chan YH Rauff MH
Department of Obstetrics and Gynaecology
National University Hospital, Singapore
Obstet Gynecol. 2007; 109(1):73-80 (ISSN: 0029-7844)

Self-efficacy theory

- Derived from social learning theory
(Bandura 1977,1982)
- "Ongoing cognitive process in which individuals determine their confidence or their perceived ability for performing a specific behavior.
Factors influencing this ability consist of the
 - individuals' motivation,
 - emotional state, and
 - social environment." (Wambach and Riordan 2016)
- i.e. a variable that can be modified

Breastfeeding Self-Efficacy Scale Dennis and Faux

- Content, construct & predictive validity
- Strong predictor of bf initiation, exclusivity & duration (Tuthill et al, 2016)
- Self-efficacy expectancies based on M's
 - Previous bf experience
 - Observations of successful bf
 - Encouragement received from others
 - Mothers state of wellness

(Wambach and Riordan 2016)

TABLE 2
BSES-SF Items With Principal Components Factor Loadings

Item	
★ 1	Determine that my baby is getting enough milk
2	Successfully cope with breastfeeding like I have with other challenging tasks
3	Breastfeed my baby without using formula as a supplement
★ 4	Ensure that my baby is properly latched on for the whole feeding
5	Manage the breastfeeding situation to my satisfaction
★ 6	Manage to breastfeed even if my baby is crying
7	Keep wanting to breastfeed
8	Comfortably breastfeed with my family members present
9	Be satisfied with my breastfeeding experience
10	Deal with the fact that breastfeeding can be time-consuming
★ 11	Finish feeding my baby on one breast before switching to the other breast
12	Continue to breastfeed my baby for every feeding
13	Manage to keep up with my baby's breastfeeding demands
★ 14	Tell when my baby is finished breastfeeding

Identify and support those at risk:

- **At risk of choosing not to breastfeed:**
 - Lower education level
 - Younger maternal age
 - Lower income
 - Smoking
 - Belief in "myths"
- **At risk of mixed feeds/short duration:**
 - Lack of support or confidence
 - Inconsistent/inaccurate information
 - Difficulties (sore nipples, supply, fatigue, PND)
 - Early return to work
 - Early introduction of formula or solids

**Mental health,
Trauma
Addictions**

Barriers to Bf

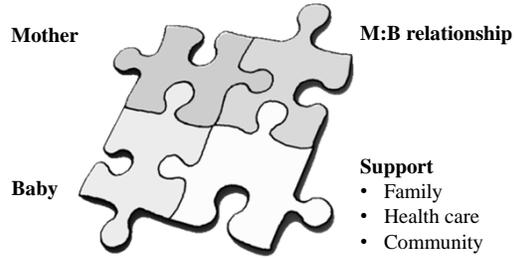
Bolling, K. et al 2005. Infant Feeding Survey 2005. London: The Information Centre.

Impact of care providers?

- Assessment
- Anticipatory guidance/ knowledge translation
- **Build self-confidence of the mother** (primary decision-maker)



Assessment



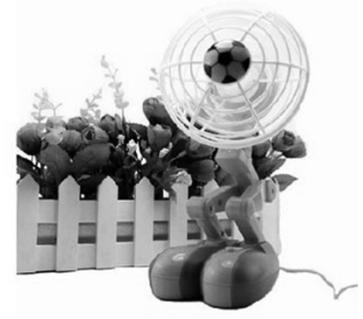
Protect, Promote & Support

- Believe bf promotes health of women, children and society
- Provide consistent, current, non-biased information
- Accept all mothers in a positive, non-judgmental way



**3. Best practice
(trauma informed)
to support
client's informed
decisions**

Stuff Happens



Big picture with a back story

Trauma – life time effects

- **Acute trauma**
 - **Chronic relation-based trauma**
 - 80% parents + 20% relatives/ adult friends
 - **Impact on children – damage to**
 - **Relational functioning** (attachment, hostile/ withdrawn)
 - **Brains** (attention, abstraction, reasoning, executive function)
 - **Sense of self** (attributions re world, social skills)
- Kendall-Tackett (2005) Handbook of Women, Stress & Trauma.

Trauma – repeating cycles

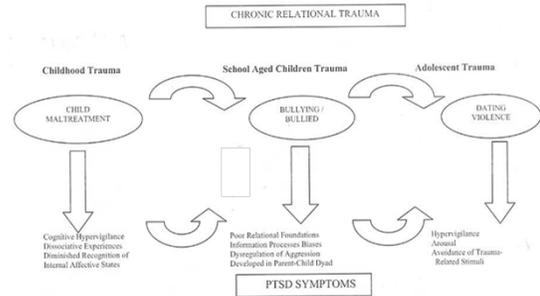


FIGURE 1.1. Theoretical model integrating experiences of chronic trauma at different stages of development.

Kendall-Tackett (2005)

Trauma Informed Practice

Dr. Nancy Poole

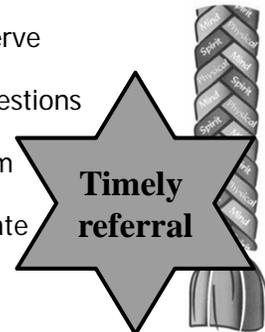
Key Principles

- **Awareness of impact**
- **Emphasize safety & trustworthiness**
- **Opportunities for choice, collaboration & connection**
- **Strengths-based & skill building**

LOVE method

<http://itcaonline.com/wp-content/uploads/2011/10/Module-2-Rapport-Building.2010.pdf>

- Listen and Observe
- Open-ended questions
- Validate & Affirm
- Empower/Educate



Braid Theory: Lucy Barney RN, MSN

Cultural competency/ personal bias

"It's a misconception that racism is always overt and intentional. Far more common is an incorrect assumption or stereotype, based on someone's racial or ethnic background. This more subtle prejudice often occurs without conscious malicious intent."

Smylie J. (2007). Cultural competency starts with respect. *The Canadian Nurse* 103(8):48

<http://www.wellesleyinstitute.com/wp-content/uploads/2015/02/Summary-First-Peoples-Second-Class-Treatment-Final.pdf>

Smylie cont.

"My mother, a nurse and a proud Metis woman who survived a level of attitudinal racism during her childhood in Saskatoon that I can only imagine, taught me my first and most important lessons about respect. *She taught me that being respectful starts with self-awareness and humility* - I am no better than anyone else and I should never forget it. With her lessons in mind, it has been easier for me to open my heart to others, even when I am challenged by apparent differences in values, attitude, appearances and experience. My life has been vastly enriched by the new understandings and perspectives these connections across difference allow." (Italics mine)

Informed decision

- Opportunities to discuss concerns
- Importance of breastfeeding
- Health consequences of not bf.
- Risks & costs of substitutes
- Difficulty of reversing decision
- Mothers choosing not to breastfeed
 - AFASS
 - Individual instruction by Health Prof
 - prep, store, feed

Motivational Interviewing as a *Counselling* Style

- Democratic partnership – each bring expertise
- Resolve ambivalence (intrinsic motivation and values)
- Activate innate capability for beneficial change
- Directive –goal of eliciting self-motivational statements and enhancing motivation for positive behavioral change

<http://www.ncbi.nlm.nih.gov/books/NBK64964/>

Mother's experience of support

Support providers: client-centred care

- Knowledge
- Effectiveness
- Sensitivity and relational competence
- Accessibility

Chaput, K.H., Adair, C.E., et al (2015). The experience of nursing women with breastfeeding support: a qualitative study. *Canadian Medical Association Journal Open*, 3, E305-E309. doi:10.9778/cmajo.20140113

Case Study 1

- Trauma informed
- Informed decision
- Motivational health promotion
- Building self-efficacy

Trauma – what can we do?

- **Prevention**
 - Societal support for parents & families
 - Schools – promote healthy relationships
 - Social norms/ laws (non-abusive relationships)
- **Intervention support**
 - Develop relationship skills
- **Treatment**
 - Across the lifespan

Women who were sexually abused

- Pregnancy, birth and breastfeeding may awaken disturbing thoughts and feelings
- Create opportunities for listening and discussion
- Breastfeeding has been healing for many
- <http://www.babyfriendlynl.ca/guest/sexual-abuse-why-shouldnt-i-breastfeed/>

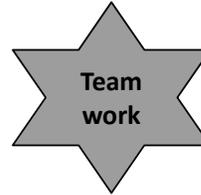
Bf protects against child abuse

Strathearn et al, *Pediatrics* 2009;123:483-493

- 7223 Australian M-B pairs – 15 yr study
- 5890: anal. duration of bf/ maltreatment
 - No maltr., non-M. & M perpetrated maltr.
- 512 substantiated maltreatment cases
 - >60% had 1 or more M-perp. maltreatmt
 - Non-bf > bf for 4 m - 4.8 x odds
 - After confounders: 2.6 x odds
- Bf may help protect, particularly neglect

Building resources in the community

Perinatal Circle of Support



Best Start Resource Centre. (2009). *Creating Circles of Support for Pregnant Women and New Parents: A manual for service providers supporting women's mental health in pregnancy and postpartum.*

4. Evidence base to practice – building self-efficacy

The benefits of breastfeeding are evidence-based, but the **mechanisms for supporting all women**, including those who do not breastfeed, to feel confident in their relationship with their baby require practical and emotional support.

UN Convention on the Rights of the Child focus

The evidence and rationale for the UNICEF UK Baby Friendly Initiative standards
http://www.unicef.org.uk/Documents/Baby_Friendly/Research/baby_friendly_evidence_rationale.pdf

Bf in the Information Age

- Google (information)
 - Media Portrayal of bottle/ breastfeeding
Henderson et al 2000
- Pubmed (evidence)
 - Reliability/ validity/ trustworthiness?
 - Evidence base to practice?
- Critical reading & thinking skills
 - Vital link to successful patient outcomes

What can be done to improve and measure breastfeeding outcomes?

Best practice tools?

Baby-Friendly Initiative – Reframes the responsibility for breastfeeding success:

mother, partner, family, health care system, society, government

Translates knowledge

Making a Difference Courses © Marianne Brophy 2016 All rights reserved.

B R E A S T F E E D	Evidence base: Global recommendations			
	10Steps	Best Practical Tools	Challenges	Feeding Plan
	1 Policy 2 Staff Ed	Promote of care Competency	Informed decisions Formula feeding Charting Harm reduction	
	3 Seamless continuum 10	Ethical practice Anticipatory guidance Prenatal ed Postpartum support	Health Promotion Liaison	
	4 Early & Often 7	Skin-to-Skin, room in Support person 24/7 Anticipatory guidance Early cues, freq feeds Stomach capacity Hand expression Cup feeding	L&D Jaundice Hypoglycaemia Engorgement	Protect Baby Feed the Baby <ul style="list-style-type: none"> • At breast • Donor bank milk • Commercial formula
	5 Effective BF 8	Assess, Assist early Anticipatory guidance Establish bf/ind separation Responsive feeding Position, latch, transfer Signs of thriving	Nipple damage & infection Breast infection Approp. technology Express feed	Promote Supply Move the Milk <ul style="list-style-type: none"> • Hand express • Pump
	6 Exclusive BF 9	Def: BF (brn/ donor Med. supplen Informed decision Anticipatory guidance Supply – adequate methods Alternative feeding methods Normalize breastfeeding	Dysitis at risk Milk supply Low/over supply Perceptions/Expectations Feeding, Sleeping Crying	Support breastfeeding Facilitate Breastfeeding <ul style="list-style-type: none"> • Self-efficacy • Empowerment • Normalize

Ten Steps: Themes

Policy (1) and Staff Education (2)
Ethical practice (WHO Code)
Seamless continuum of care (3 & 10)
Mother Baby Togetherness (4 & 7)
Practical assistance (5 & 8)
Exclusive breastfeeding at the breast (6 & 9)

Breastfeeding Best Practice

- 🔑 **Early and Often**
 - 🔑 Skin to skin & early cues
- 🔑 **Effective Breastfeeding**
- 🔑 **Exclusive Breastfeeding**

Ongoing Breastfeeding support

- Health care providers across the continuum of care (BFI)
- Peer support (BFI Step 10)
- PHAC Protecting, Promoting and Supporting Breastfeeding: A Practical Workbook for Community-Based Programs

<http://www.phac-aspc.gc.ca/hp-ps/dca-dea/publications/pdf/ppsb-ppsam-eng.pdf>



“The key to best breastfeeding practices is continued day-to-day support for the breastfeeding mother within her home and community.”

Saadeh RJ, ed (1993)
Breastfeeding: the Technical Basis and Recommendations for Action. Geneva: WHO: 62-74.

Case Study 2

Supporting the initiation & establishing of effective, exclusive breastfeeding – resolving challenges

Breastfeed early & often

- **Skin-to-skin initiation**
 - Baby – safe transition
 - Mother – wellbeing and bonding
- **Feeding cues and frequency**
- **Hand expression and cup feeding**

Effective breastfeeding

- **Positional stability**
- **Latch**
- **Milk intake and thriving**
- **Breast and nipple care**

Exclusive breastfeeding

- **Supplements**
 - why, what, how, how much
 - Milk bank vs milk sharing
- **Building supply**
- **Mothers not breastfeeding**
 - Informed decision
 - Individual instruction
 - Harm reduction

Early and Often SSC -Initiation of bf

<https://www.healthyfamiliesbc.ca/home/articles/video-breastfeeding-and-skin-skin-contact>



ABORIGINAL DOULA SUPPORT



"The art of birth, women supporting women in child birth"

Breastfeeding is part of a continuum

- Antenatal care impacts intention to breastfeed
- Labour and delivery care impact dyads readiness to breastfeed
- Breastfeeding starts with skin-to-skin contact



Baby STS-Safe Transition

Skin-to-skin Care



- **Stabilizes infant**
 - temperature
 - heart rate
 - breathing (Moor et al 2007, Bergman 2000)
- **Reduces stress hormones in baby by 74%**
(Modi & Glover 1998; Mooncey 1997)
- **Triggers feeding behaviours**
(Righard 1990, Widstrom 1990, Varendi 1998, Matthiesen 2001)
- **Less crying, better gains, earlier discharge**
(Wahlberg 1992; Anderson 1989)



Reduces stress and Pain

Modi & Glover 1998
Weissman et al 2009

Skin to skin initiates organized, predictable, sequential, pre-feeding behavior that leads to effective, coordinated suckling.

PEDIATRICS Vol. 102 No. 5 Supplement November 1998, pp. 1244-1246

RESEARCH PERSPECTIVES:
Mother and Infant: Early Emotional Ties, Marshall Klaus

Skin to skin/ early initiation

Breastfeeding

- Longer and more frequent
- Greater milk volume Bystrova et al., 2007a, 2007b
- More exclusive breastfeeding
from birth to discharge Bystrova et al., 2007c
- Longer duration of breastfeeding to 6m

Anderson et al., 2003; Mikiel-Kostyra et al., 2002; Mizuno et al., 2004; Moore et al., 2007; Nakao et al., 2008; Thomson et al., 1979; Vaidya et al., 2005

Early and Often
M -STS -Bonding

Skin to skin/ early initiation

• **Maternal**

– Less PPH, faster placental expulsion

Marin et al., 2009, 274 women

– Higher oxytocin – baby massages breast –
more suckling and milk production

Matthiesen et al., 2001; Widström et al., 1993, 2011

**Skin-to-skin care: *Psychosocial*
benefits for mother and baby**

- Baby cries less
- Early mother-infant interaction: bonding
- Maternal well-being-attachment
- Less infant abandonment, maltreatment
- Mother-infant interaction at one year old

Maternal well-being & attachment

Skin-to-skin:

- Less maternal stress: reduced gastrin blood level
- Better maternal well-being: increased oxytocin

Early breastfeeding:

- Significant less depression, greater sociability
- Greater maternal well-being: 2x plasma endorphins

Frequent maternal wellbeing → attachment
due to repeated activation of opioids and oxytocin

Ali et Lowry,1981; Anderson et al., 2003; Bystrova et al.,2007b ; Carfoot et al., 2005 ; De Château et Wiberg ,1977a ,1977b ; Hales et al. ,1977; Kennel et Klaus ,1998; Klaus et al.,1972; Klaus et Kennel, 1976; Moore et al., 2007; Velandia et al., 2010; Widström et al. ,1990; Winberg , 2005

Less infant abandonment, maltreatment

- Significantly less parental negligence and maltreatment in socially vulnerable families
- Less early abandonment of infants in postnatal period

Anderson et al., 2003; Lvoff et al., 2000; Strathearn et al., 2009 ;
Winberg & Christensson, 1995

Mother-infant interaction at one year

Uninterrupted skin-to-skin for 2 hrs at birth positively impacts

- mother's sensitivity
- child's self-regulation
- mutual reciprocity
- (Parent-Child Early Relational Assessment)

when the child is one year old
all confounding variables considered

Bystrova et al., 2009

Early experiences influence brain and body chemistry

- Maternal behaviour towards infant determines indiv. differences in stress reactivity of the adult (Szyf)
- Higher stress reactivity → higher risk of
 - Heart disease, Type 2 diabetes
 - Alcoholism
 - Affective disorders
 - Brain aging

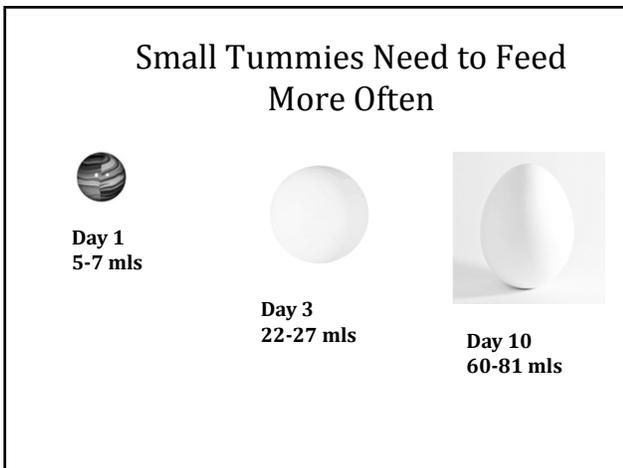
DNA methylation

Early and Often
Cues, Frequency



Normalizing Expectations

- Newborns feed at least 8 times per 24 hours in the early days, cluster feed
- Cue - based feeding **Early and Often**
- Sleep when baby sleeps
- It takes time to establish breastfeeding



AAP Residents curric - mgt of common bf situations
Establishment of Breastfeeding —
Colostrum

- The first milk, colostrum, is rich in protein and antibodies
 - Neutrophils in colostrum promote bacterial killing, phagocytosis, and chemotaxis
- Small volume is normal:
 - 7-123 ml/day first day
 - 2-10 ml/feeding day 1
 - 5-15 ml/feeding day 2

Saint, L., Smith, M., Hartmann, P.E. The yield and nutrient content of colostrum and milk of women from giving birth to 1 month post-partum. *Br. J. Nutri.* 1984; 52: 97-95.

Early and Often: Feeding Cues

- Sucking movements
- Sucking sounds
- Hand to mouth movements
- Rapid eye movements
- Soft cooing or sighing sounds
- Restlessness



Crying is a late cue



Video: **Feeding cues and behaviours**

<https://www.healthyfamiliesbc.ca/home/articles/video-about-baby-feeding-cues-and-behaviours>

Cue-based feeding

- Breastfeeding
 - More effective position and latch
 - Longer duration
- More milk: earlier onset, ↑ volumes
- Weight: ↓loss, ↑regain birth weight
- Fewer challenges:
 - Mother: engorgement, sore nipples
 - Baby: jaundice, hypoglycaemia

Waking a sleepy infant

Goal: transition to active alert state

- Watch for early cues
- Skin-to-skin with mother
 - Undress/ unwrap baby
- Change diaper
- Massage infant's back, arms and legs

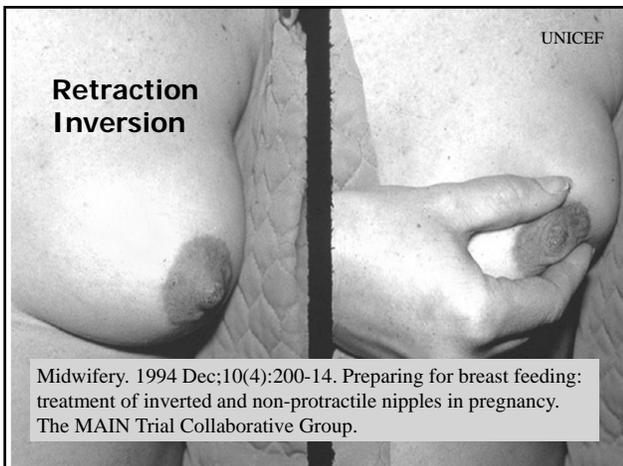
Hand expressing

www.healthyfamiliesbc.ca/home/articles/topic/feeding

Milk storage

BBC p106

<http://www.toronto.ca/health> - click on Health Professionals - protocols



Hand expression videos

- Dr. Jane Morton
<http://newborns.stanford.edu/Breastfeeding/HandExpression.html>
- National Breastfeeding Committee of Denmark:
How to Milk by Hand; How to Feed From a Cup
Distributed by: www.healthed.cc

Breast pumps... If mom and baby are separated or baby is not breastfeeding

< **1hr – start expressing**

< 48 hours hand expression is best
collect colostrum
stimulate production
empower mom

> 48 hrs hand expression
 hand pump
 electric pump

Use pumps carefully:

- right pump for the purpose
- right size flanges
- right vacuum pressure
- right timing
- right frequency
- cleaning instructions

More in class 6



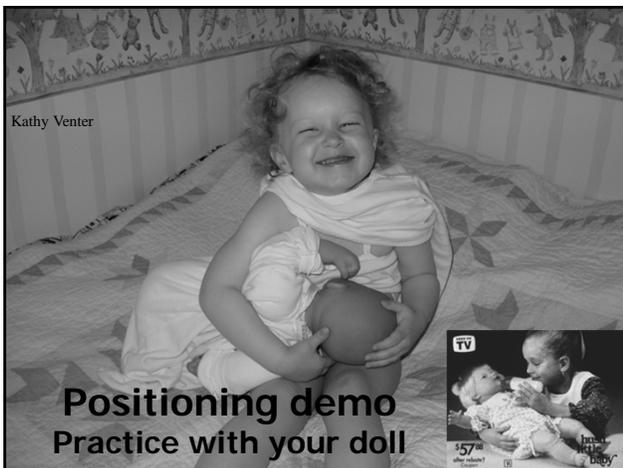
Cup feeding

- Baby led
- Positive oral experience
- Appropriate oral behaviors
- Little energy needed
- Oral enzymes
- Fat conserved
- Eye contact
- Hygienic



Summary: Dyad in Transition Support self-efficacy		
Dyad	Challenges	Tool kit
Mother: motherhood	Medicalization ↓Support Expectations	Empowerment LOVE method Normalize bf
Baby: womb to world	Safe transition Separation Stress	Skin to Skin Hand expression Togetherness

Effective
Breastfeeding
- Position



Positioning - Mom

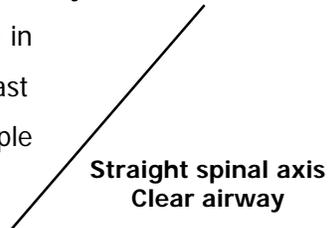
Comfortable position
 Back well supported
 Raised feet if sitting in chair
 Shoulders relaxed = breasts at natural level
 Bring baby to the breast

- Pillow?

Position for Effective BF

Stability

- Tummy to mummy
- Bum tucked in
- Chin to breast
- Nose to nipple



Latch for Effective Breastfeeding

BBC p100

www.healthyfamiliesbc.ca/home/articles/topic/feeding

Components of effective latch

- Nipple free of pain or trauma
- Nipple not distorted at the end of a feed
- chin touching breast, baby's mouth wide open
- Greater cover of areola with lower jaw
- Cheeks full, no dimpling evident
- Rhythmic suckle with nasal swallow sound
- Mother's hand supports neck and shoulders

Rebecca Glover

Breastfeeding Education Materials

<http://www.rebeccaglover.com.au>

- DVD Follow Me Mum
- Teaching charts & Tear off Sheets:
Attachment/ latch and Holding Me
- Free Download – Teaching Tools:
 - 7 Fundamental Latching Behaviours
 - Pocket Flash Cards
 - Helping Continuum Table

For effective milk transfer:

Baby in organized state

Empower the bottom jaw (flexion)

Correct position and use of the tongue during suckling

Signs of milk transfer

- Alert baby, cues, is satisfied
- Nutritive sucking, **audible swallow**
- Relaxed arms and hands
- Adequate age-appropriate
 - Weight gain
 - Output
- Baby well hydrated

Maternal signs of milk transfer

- Strong tugging (not painful)
- Uterine contractions (first 3-5 days)
- Milk leaking from other breast
- Relaxation, thirst
- Breast softer after feed (once milk in)
- Elongated nipple- no pain/ molding

Signs of Effective Breastfeeding Mother

- Pain: none or minimal with latch
- Nipples intact
- Breasts
 - increase in firmness, weight, size
 - fullness relieved by feeding
- Milk volume noticeably up by day 5

Signs of Effective Bf: Baby

- Audible swallowing during feed by day 4
- Weight
 - loss \leq 7% (NVD) -10% (C/S) in 72h
 - no loss after day 5
 - gain = 20 – 35g/d by day 5; birth wt day 10
- Output
 - urine: \leq 3 by day 3, clear/ pale yellow by day 4
 - bm: \leq 3 by day 3, seedy/ yellow by day 5
- Satisfied/ content after feeds

Getting enough? Thriving?

- Frequency: feeds at least 8/ 24 hours
- Suckling rhythm slows, audible swallows
- Baby ends feed satisfied
- Alert, muscle tone and skin elasticity
- Wk 1: 5+ wet diapers/ 24h (pale urine)
- Wk 1: 3 – 5 poos (fewer after \sim 6 weeks?)
- Steady gains (age approp; 20–30 g per day)
- Length and head circumference growing

Nipple Care

Wash hands before feeds

Avoid lotions, oils or non-medicinal ointments

Express a little milk after feeds and apply to the nipples – air dry

Wear comfortable bras - beware under wires or too tight straps (blocked ducts)

Use cotton liners - change them frequently to discourage growth of bacteria and yeast

Cotton liner pattern

BBC p104

EXCLUSIVE BF

Exclusive Breastfeeding

Exclusive breastfeeding means that no foods or drink other than breastmilk are given to a baby.

No pacifiers or artificial teats are given to a baby



Medically indicated

There are rare exceptions during which the infant may require other fluids or food in addition to, or in place of, breast milk. The feeding programme of these babies should be determined by qualified health professionals on an individual basis.

WHO 2009 BFHI Slide 4.6.7

Healthy Term Infants

- Supp volume guided by colostrum vol.

TABLE 3. AVERAGE REPORTED INTAKES OF COLOSTRUM BY HEALTHY BREASTFED INFANTS⁴⁵⁻⁴⁸

<i>Time</i>	<i>Intake (mL/feed)</i>
1st 24 hours	2-10
24-48 hours	5-15
48-72 hours	15-30
72-96 hours	30-60

ABM (2009) Clinical Protocol #3: Hospital guidelines for the use of supplementary feedings in the healthy term breastfed neonate.
DOI: 10.1089/bfm.2009.9991

Supplement – what?

- Mother's own ebm
- Pasteurised donor milk
- Formula
 - Protein hydrolysate formula
 - Standard ready to feed/ liquid concentrate

Glucose water is not appropriate supp.

True/ perceived low supply?

- Ask about the big picture & relationship
 - Baby's output, gain, temperament, sleep
- Early & Often/ Effective/ Exclusive?
 - Point out signs of adequate intake
- Enhance effective latch and transfer
 - Right brain problem solving
- Follow up and support

Building milk supply

- **Skin to skin –any age**
 - baby carriers also help
- **Rest, adequate fluids**
- **Avoid alcohol, nicotine**
- **Psycho-social support**
- **Frequent, effective milk removal (min. 8/ 24 h)**
 - Effective breastfeeding, switch nursing
 - Hand expression or pump
 - Breast compression, massage

Human milk banking

- HMBANA guidelines, donor screening
- Pasteurization, culture, freezing
- Rx and recipient informed consent
- Nutritional components not altered – carbohydrates, fats, fat-soluble vits, salts
- Components altered/ reduced-
 - Protein (13% denatured)
 - IgA (67-100% active); IgG (66-70% active)
 - Lactoferrin (20% active); Lysozyme (75% active)

Informal milk sharing

- Traditional practice in many cultures
- Internet – expanded to strangers
- Increased risk for transmission of
 - Disease (HIV, HTLV, TB)
 - ContaminantsHealth Canada, CPS, FDA, AAP and many others
- HMBANA banks – low supply, \$
- For-profit banks
- Informed decision - recipients

<http://www.perinatalservicesbc.ca/NR/rdonlyres/EF6E9D61-5675-4895-B545-36BE6BF64BD8/0/MilkSharingPoster.pdf>

Informal Milk Sharing: Do we have our heads in the sand?

"Milk sharing has deep social (and some might argue biological roots). It's not going to just go away because health authorities caution against it. It is part of our past, our present, and most likely our future. What is happening online is just scratching the surface."

Purpose: A Perinatal Services BC/BC Baby-Friendly Network working group was formed to develop a practice resource tool kit for health care providers on the use of unorganized donor human milk, based on the principles of patient-centered care, informed shared decision making, and harm reduction.

Perinatal Services BC
bc baby-friendly network

Microbial Contamination of Human Milk Purchased Via the Internet

CONCLUSIONS:
 Human milk purchased via the Internet exhibited high overall bacterial growth & frequent contamination with pathogenic bacteria, reflecting poor collection, storage, or shipping practices.
 Infants consuming this milk are at risk for negative outcomes, particularly if born preterm or are medically compromised.
 Increased use of lactation support services may begin to address the milk supply gap for women who want to feed their child human milk but cannot meet his or her needs.

Keim SA et al. Pediatrics 2013;132:e1227–e1235
 DOI: 10.1542/peds.2013-1687

Ineffective Feeding: Plan

Feed the baby	Ebm on cue Medically indicated supps. Informed decision
Move the milk	Enhance position & latch Hand express, pumping
Facilitate bf	Skin to skin, no separation Empower self-efficacy Support person Approp. Tech.

- Mothers not breastfeeding**
- Mothers supplementing**
- Informed decision**
- Individual Instruction**
 - Selection of breastmilk substitute
 - Preparation of formula
 - Storage
 - Feeding (cue-based, paced)
- Harm reduction**

Formula Facts

- Homemade formula is nutritionally inadequate, proteins not modified
- Commercial formula meets Codex Alimentarius standards
 - Liquid concentrate (sterile till opened)
 - Liquid ready to feed (sterile till opened)
 - Powdered (may be contaminated pre-opening)

Joint FAO/ WHO Workshop on *E. sakazakii* and Other Microorganisms in Powdered Infant Formula:

In situations where infants are not breastfed, caregivers, particularly of infants at high risk, should be

- regularly alerted that powdered infant formula is not a sterile product and can be contaminated with pathogens that can cause serious illness; they should be provided with information that can reduce the risk.

- encouraged to use, whenever possible and feasible, commercially sterile liquid formula or formula which has undergone an effective point-of-use decontamination procedure (e.g. use of boiling water to reconstitute or by heating reconstituted formula).
- Guidelines should be developed for the preparation, use and handling of infant formula to minimize risk.

<http://www.who.int/foodsafety/publications/micro/Summary.pdf>

<http://www.who.int/foodsafety/publications/powdered-infant-formula/en>

Formula facts (cont)

- Modified cow or soy milk (allergens?)
- Lacks key nutrients in breastmilk
- Baby may be overfed
- Specialty formulas
 - Hydrolysed proteins, lactose free
Nutramigen, Pregestamil, Alimentum
- No evidence for
 - Premature (classified as experimental by FDA)
 - Lactose free; Thickened; DHA/ARA
 - Follow-on (WHO discourages)

Care for mother

- Informed decision - all mothers
(bf + supplements, replacement feeding)
- Support (grieving, anger, denial)
- Skin-to-skin, cue-based feeding
- Age appropriate feed volumes
- Careful preparation, storage, handling
and feeding is vital for safety

<http://www.who.int/foodsafety/publications/powdered-infant-formula/en/>

Teach parents and return demonstration

Responsive Bottle Feeding

- Mother regulates flow from bottle
protect breathing, heart rate, oxygen saturation
- Hold baby upright, support head/neck
 - Use wide-based, slow flow nipple
 - Trigger wide mouth, let baby accept nipple
 - Keep bottle horizontal, nipple partly full
- Dangerous signs
 - Gulping, milk leaking from mouth
 - Stridor, gasping, flared nostrils, grimacing
 - Eyes opened widely, cyanosis

