

CONFLICT OF INTERESTS

I DECLARE TO **NOT HAVE** ANY CONFLICT OF INTERESTS REGARDING THIS PRESENTATION

1000 Days Nutrition



• Improved early nutrition provides enormous potential advantages across the life span.

- Human milk + breastfeeding crucial role in:
 - Neurodevelopment
 - o Intestinal microbiome
 - o Behavior

BREASTFEEDING BENEFITS — BABIES

- Natural means of infant nutrition → bonding!
- Adequate temperature + easily available.
- Optimal nutritional composition to baby's needs:
 - O Growth + development
- Biological components:
 - Immunity (microbiome) + anti-inflammatory
- Less infections:
 - Otitis (2x less at 6 months old) + diarrhea (less hospital admission)



BREASTFEEDING BENEFITS — BABIES

- Prevents Sudden Infant Death Syndrome 15-36% lower risk.
- Reduces risk of asthma + atopic dermatitis + obesity.
- Improves cognitive development breast-fed adults: >2-3 IQ score.
 - DHA + ARA long-chained fatty acids help myelinization.
 - Prospective cohort study at 30-year-old:
 - 3.8 higher IQ score
 - 0.9 average additional year of education and occupational training
 - 23% higher incomes

BREASTFEEDING BENEFITS – MOMS

- Faster uterine involution.
- Greater fat deposits catabolism weight loss.
- Reduces risk of breast cancer (12m).



WHO + UNICEF Recommendation



- Breastfeeding should begin within 1st hour of life
- Exclusively until 6 months of age
- Continued until 2 years or beyond



Despite of all this knowledge, breastfeeding rates are low worldwide !!!

- WHO's Global Breastfeeding Scorecard 2017
 - 23 of 194 evaluated nations rate above 60% of exclusive breastfeeding at 6

months \rightarrow 11,9%

☐ Goal: **75%** !!!

Guaranteeing the success of breastfeeding begins during pre-natal care and may also depend on several perinatal & in-hospital factors.

Few high-quality evidence available on this issue



What are the top 3 strategies used at your hospital that you think greatly influence mothers to breastfeed?

Join at slido.com #1516

1. PARENTS INFORMATION & EDUCATION

Parents should be adequately informed about breastfeeding before the child is born.

- Cochrane review (2016) 23 RCTs; n = 107,362; 7 countries.
- Healthcare professional-led education in formal settings improves rates of breastfeeding initiation
 - Midwives + nurses + doctors
 - Promotion campaigns + counselling
- Low quality evidence.

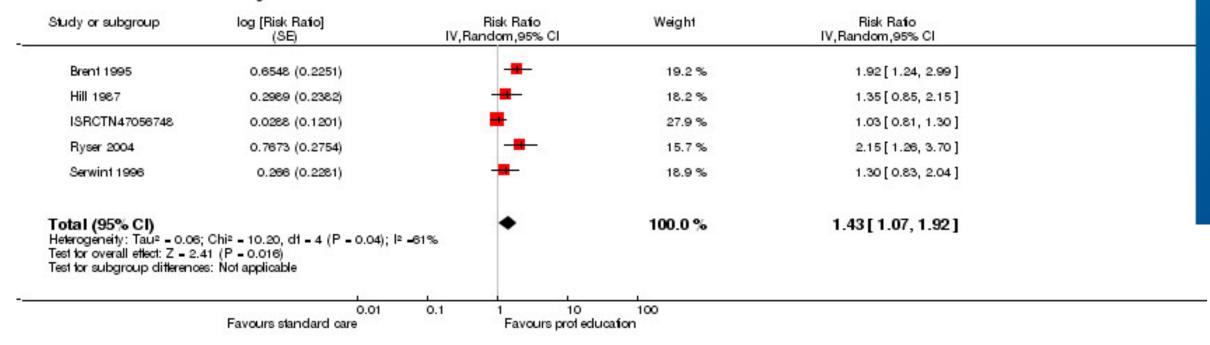
Healthcare professional-led education vs. Standard care

Initiation of breastfeeding - RR 1.43, 95% CI (1.07 - 1.92)

Review: Interventions for promoting the initiation of breastleeding

Comparison: 1 Healthcare professional-led breastleeding education and support versus standard care

Outcome: 1 Initiation of breastleeding

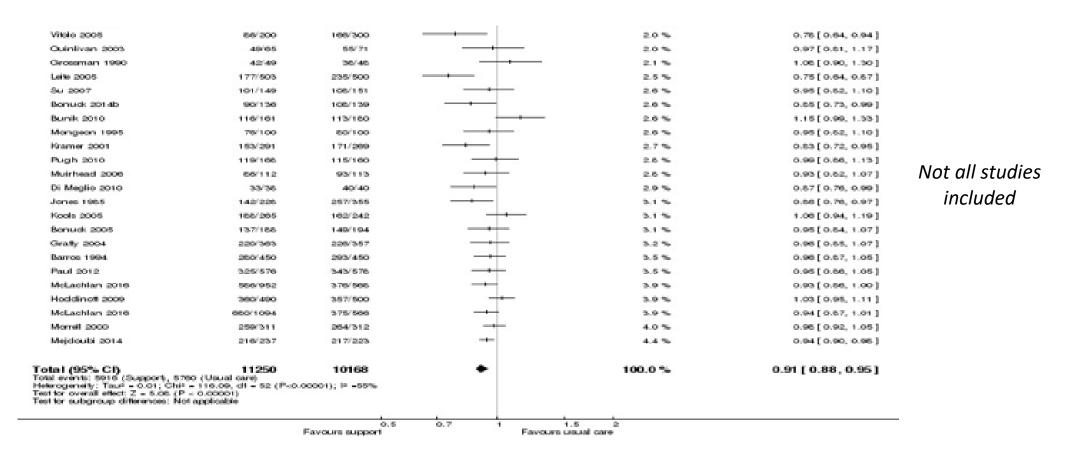


Parents should receive good quality information

- Cochrane review (2017) 73 RCTs; n = 74,656 mother-infant pairs; 29 countries (62% high-income).
- All forms of organized support increased length of time women continued to breastfeed exclusively – more helpful if:
 - Scheduled predictable.
 - Ongoing visits with trained volunteers, doctors and nurses.
- Moderate quality evidence.

All forms of support vs. Usual care

Less likely to stop breastfeeding before 6 months - RR 0.91, 95% CI (0.88 - 0.95)



McFadden A, Gavine A, Renfrew MJ, Wade A, Buchanan P, Taylor JL, Veitch E, Rennie AM, Crowther SA, Neiman S, MacGillivray S. Support for healthy breastfeeding mothers with healthy term babies. Cochrane Database of Systematic Reviews 2017, Issue 2. Art. No.: CD001141.DOI: 10.1002/14651858.CD001141.pub5.

2. CONTINUOUS SUPPORT

Continuous Support (Nurses & Midwives)

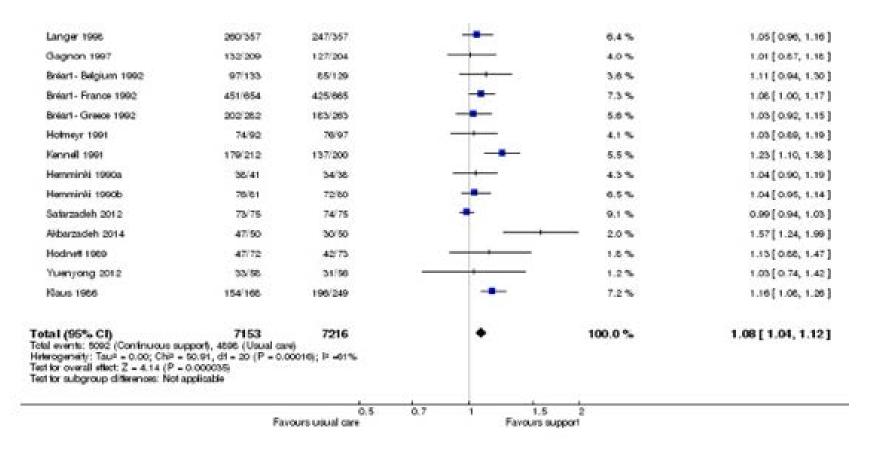
- Cochrane review (2017) 26 RCTs; n = 15,858 women; 17 countries (76% high-income).
- Usually from another woman/person of their choice during labor and birth.
 - Emotional continuous presence + reassurance + praise.
 - Information regarding labor progress.
 - Comfort measures touching + massaging + warm bath/shower + encouraging mobility + promoting adequate fluid intake and output.
 - Speaking up on behalf of woman (when needed).

Continuous Support (Nurses & Midwives)

- Lack of continuous support labor and birth may be perceived as dehumanized.
- Supportive care enhances:
 - Physiological labor processes
 - Women's feeling of control
 - o Confidence in their own strength and ability to give birth:
 - ☐ May reduce obstetric intervention → HIGHER VAGINAL BIRTH RATES
 - ☐ Improve women's experience

Continuous support vs. Usual care

Increases spontaneous vaginal birth - RR 1.08, 95% CI (1.04 - 1.12)



Not all studies included

Bohren MA, Hofmeyr GJ, Sakala C, Fukuzawa RK, Cuthbert A. Continuous support for women during childbirth. Cochrane Database of Systematic Reviews 2017, Issue 7. Art. No.: CD003766.DOI: 10.1002/14651858.CD003766.pub6.

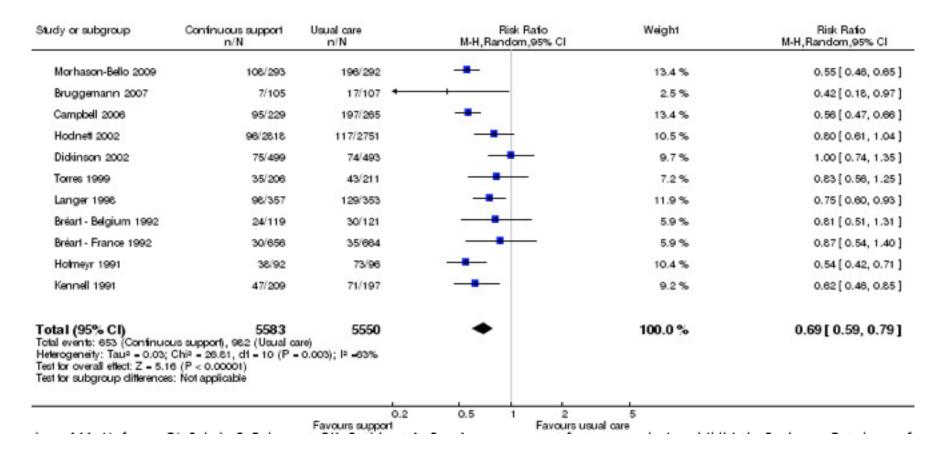
Continuous Support (Nurses & Midwives)

 Institutional / hospital routines may have adverse effects on the quality, outcomes and experience of care during labor and childbirth.

All low quality evidences.

Continuous support vs. Usual care

Decreases negative feelings about birth experience - RR 0.69, 95% CI (0.59 - 0.79)



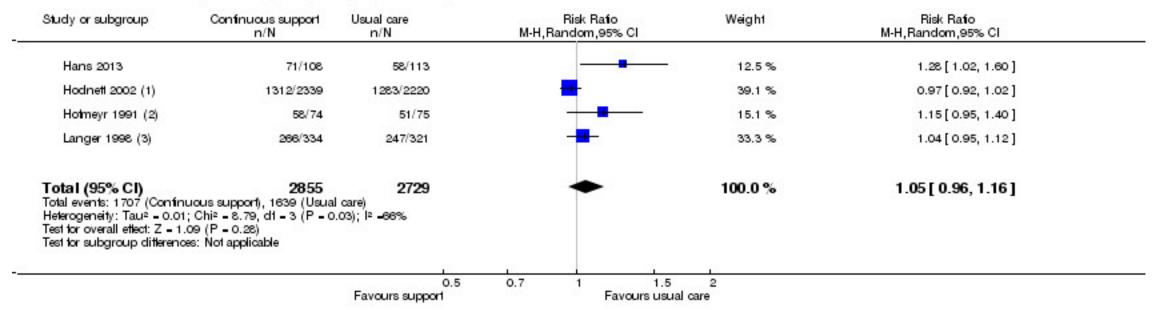
Continuous support vs. Usual care

No difference whether babies were breastfed at 8 weeks - RR 1.05, 95% CI (0.96-1.16)

Review: Continuous support for women during childbirth

Comparison: 1 Confinuous support versus usual care - all trials

Outcome: 5 Exclusive or any breastleeding at any time point, as defined by trial authors



- (1) Reported as 'Not breastleeding at 6 weeks postpartum'. Reciprocal results reported here.
- (2) Reported breastleeding only and not breastleeding at all at 6 weeks postpartum reported breastleeding only group minus those not breastleeding at all from denominator
- (3) Reported as 'Full breastleeding' and 'Breastleeding plus formula' one month postpartum.

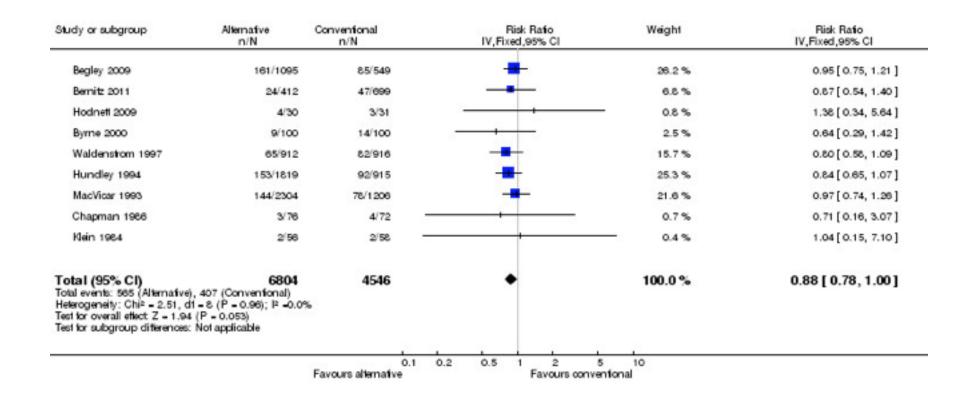
3. ALTERNATIVE INSTITUTIONAL SETTINGS

ALTERNATIVE INSTITUTIONAL SETTINGS

- Cochrane review (2012) 10 RCTs; n = 11,795 women.
- Hospital birth centers increase likelihood of:
 - No intrapartum analgesia/anesthesia.
 - Spontaneous vaginal birth.
 - Breastfeeding at 6 8 weeks of age.
 - Very positive views of care.
- Usually restricted to high/moderate-income countries.

Alternative vs. Conventional settings for birth

Less likely to perform Caesarean birth - RR 0.88, 95% CI (0.78-1.00)



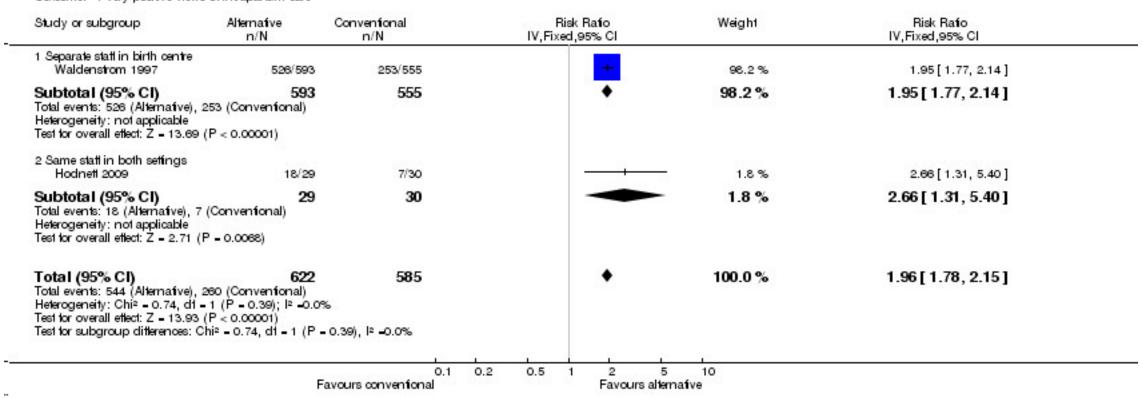
Alternative vs. Conventional settings for birth

Perceived experience with greater satisfaction - RR 1.96, 95% CI (1.78 - 2.15)

Review: Alternative versus conventional institutional settings for birth

Comparison: 2 Alternative versus conventional birth settings - same or separate stati

Outcome: 4 Very positive views of intrapartum care

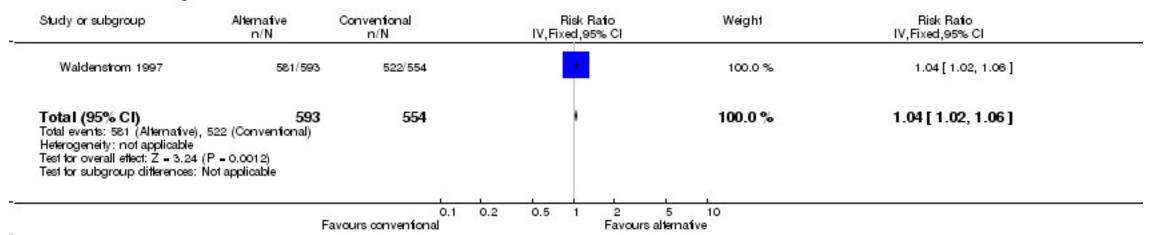


Alternative vs. Conventional settings for birth

No difference whether babies were breastfed at 6-8 weeks - RR 1.04, 95% CI (1.02-1.06)

Review: Alternative versus conventional institutional settings for birth Comparison: 1 Alternative versus conventional birth settings - all trials

Outcome: 14 Breastleeding at 6-8 weeks



4. SKIN-TO-SKIN CONTACT

SKIN-TO-SKIN CONTACT

- Placing naked newborn on mother's bare chest after birth.
 - o Immediate within first 10 minutes of age.
 - o Early − 10 minutes to 24 hours of age.

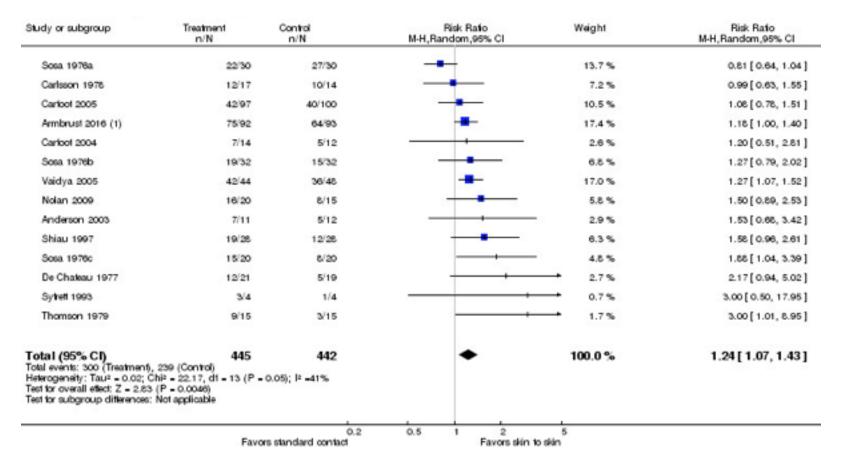
 Cochrane review (2016) - 38 RCTs; n = 3,472 mother-infant pairs; 8 countries.



All healthy infants (>35wk) – majority full term

Skin-to-skin vs. Standard contact

Increased chances of breastfeeding up to 4 months - RR 1.24, 95% CI (1.07-1.43)



SKIN-TO-SKIN CONTACT

• More like to exclusively breastfeed from hospital discharge to 1-month post-birth, and from 6 weeks to 6 months post-birth.

• Infants had higher blood glucose level (low-quality evidence).

- No difference between:
 - Times of initiation <10 min (immediate) vs. >10 min (early)
 - Length of contact time <1 hour vs. > 1 hour

5. ROOMING-IN

ROOMING-IN

 Hospital arrangement whereby a newborn infant is kept in the mother's hospital room instead of in a nursery.

• Cochrane review (2016) - 1 study; n = 176 women; all *low-quality* evidence.

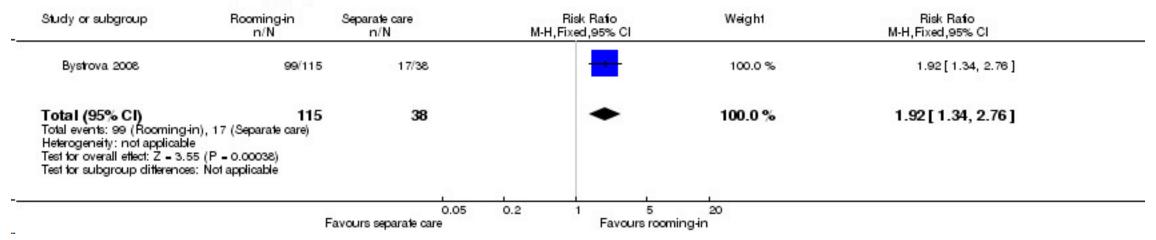
Rooming-in vs. Separate care

Increased exclusive breastfeeding at day-4 postpartum [before hospital discharge] - 86% vs. 45% - RR 1.92, 95% CI (1.34-2.76)

Review: Rooming in for new mother and infant versus separate care for increasing the duration of breastleeding

Comparison: 1 Comparison between rooming-in versus separate care

Outcome: 3 Exclusive breastleeding at day 4 postpartum

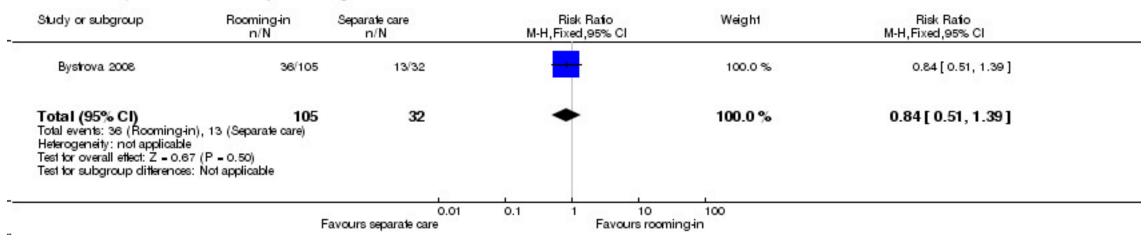


Rooming-in vs. Separate care

Found no difference between proportion of women breastfeeding at 6 months - RR 0.84, 95% CI (0.51 - 1.39)

Review: Rooming-in for new mother and infant versus separate care for increasing the duration of breastleeding.

Comparison: 1 Comparison between rooming-in versus separate care Outcome: 1 Proportion of women with any breastleeding at 6 months



6. ORAL DEXTROSE GEL

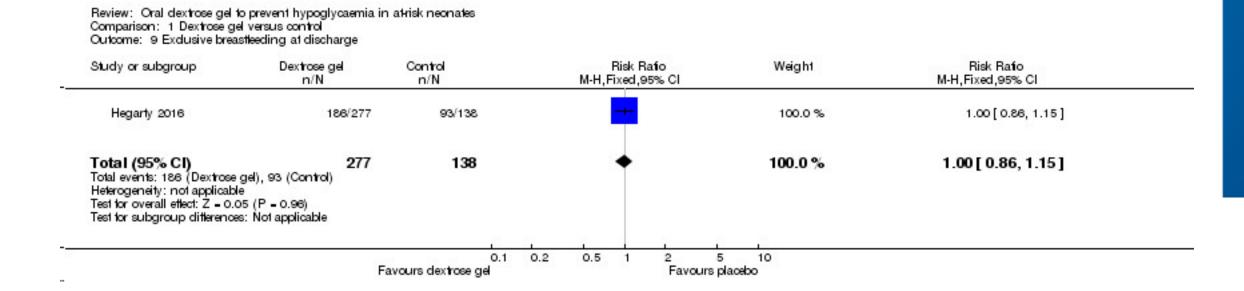
ORAL DEXTROSE GEL - HYPOGLYCEMIA

• Cochrane review (2017) - 1 study; n = 416 infants at risk of hypoglycemia.

All moderate-quality evidence.

Dextrose Gel vs. Control

Found no difference between exclusive breastfeeding at discharge - RR 1.00, 95% CI (0.86 - 1.15)

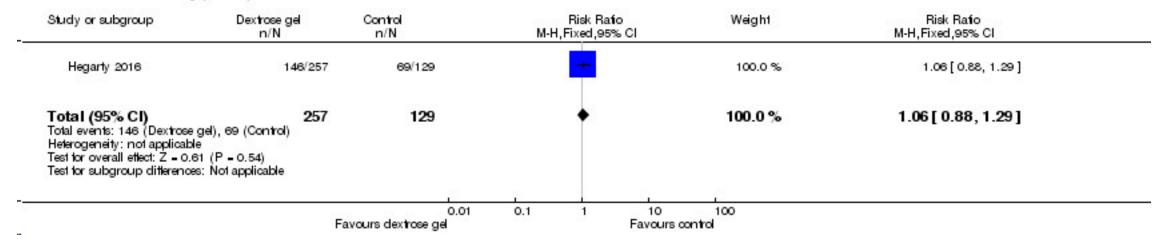


Dextrose Gel vs. Control

Found no difference between exclusive breastfeeding after 6 weeks - RR 1.06, 95% CI (0.88 - 1.29)

Review: Oral dextrose gel to prevent hypoglycaemia in atrisk neonates

Comparison: 1 Dextrose gel versus control Outcome: 10 Breastleeding (6 weeks)



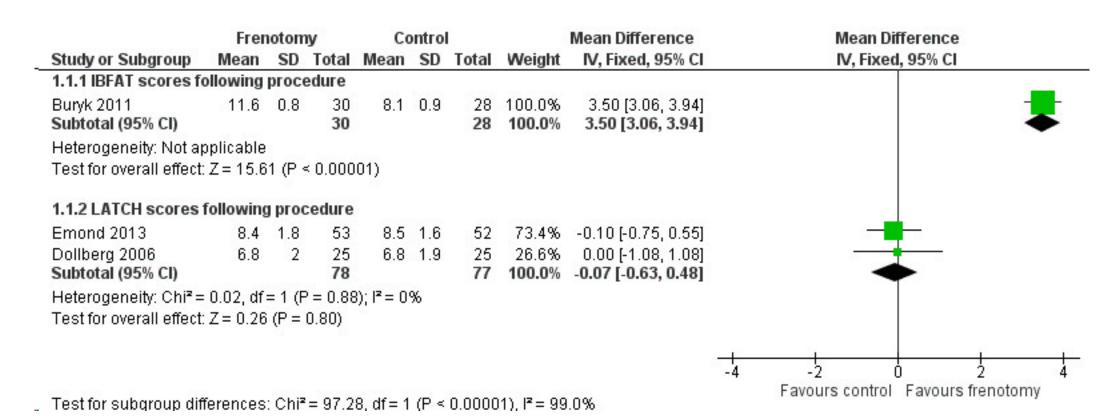
7. FRENOTOMY

TONGUE-TIED NEWBORNS

- Cochrane review (2017) 3 studies; n = 155 infants; all *low-quality* evidence.
- Frenotomy reduced breastfeeding mothers' nipple pain in the short term.
- Investigators did not find a consistent positive effect on infant breastfeeding.
- No study was able to report whether frenotomy led to long-term successful breastfeeding.

TONGUE-TIED NEWBORNS

Found no difference between breastfeeding performance assessed by validated scale



O'Shea JE, Foster JP, O'Donnell CPF, Breathnach D, Jacobs SE, Todd DA, Davis PG. Frenotomy for tongue-tie in newborn infants. Cochrane Database of Systematic Reviews 2017, Issue 3. Art. No.: CD011065.DOI: 10.1002/14651858.CD011065.pub2

8. KANGAROO CARE

up to ensure an open airw

KANGAROO CARE

 Cochrane review (2017) - 31 studies; n = 3,042 infants; moderatequality evidence.

 Found to increase exclusive breastfeeding at:

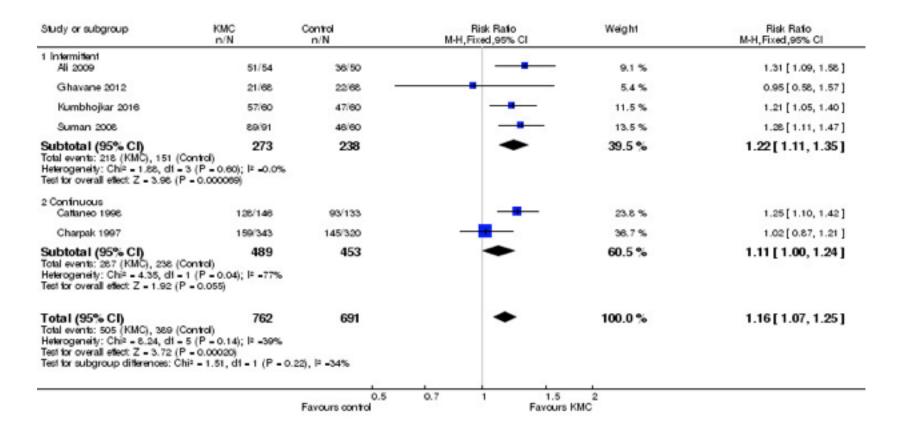
- Discharge (RR 1.16, 95% CI [1.07-1.25])
- 1 to 3 months (RR 1.20, 95% CI [1.01-1.43])



Baby upright on adult's chest

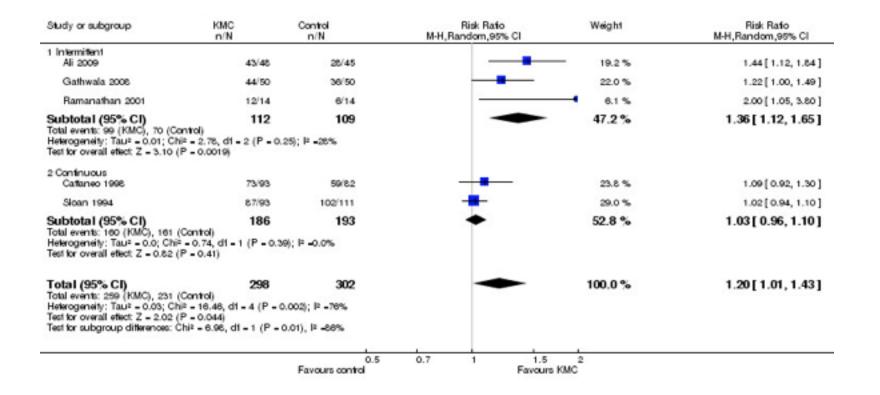
Kangaroo vs. Conventional care

Increased exclusive breastfeeding at discharge - RR 1.16, 95% CI (1.07 - 1.25)



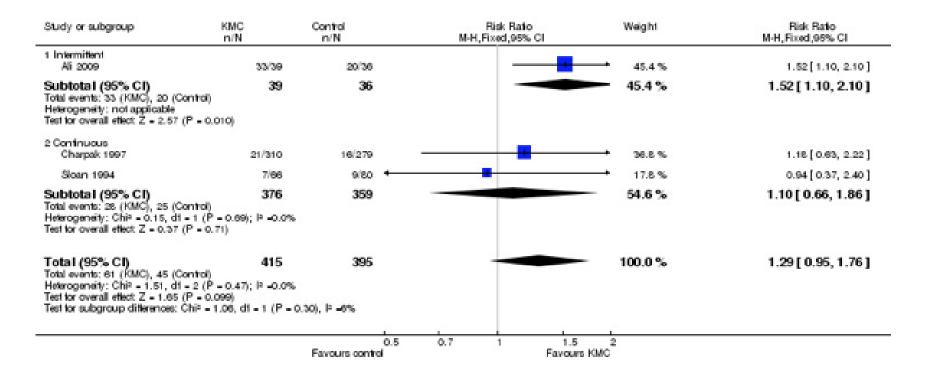
Kangaroo vs. Conventional care

Increased exclusive breastfeeding at 1 to 3 months - RR 1.20, 95% CI (1.01 - 1.43)

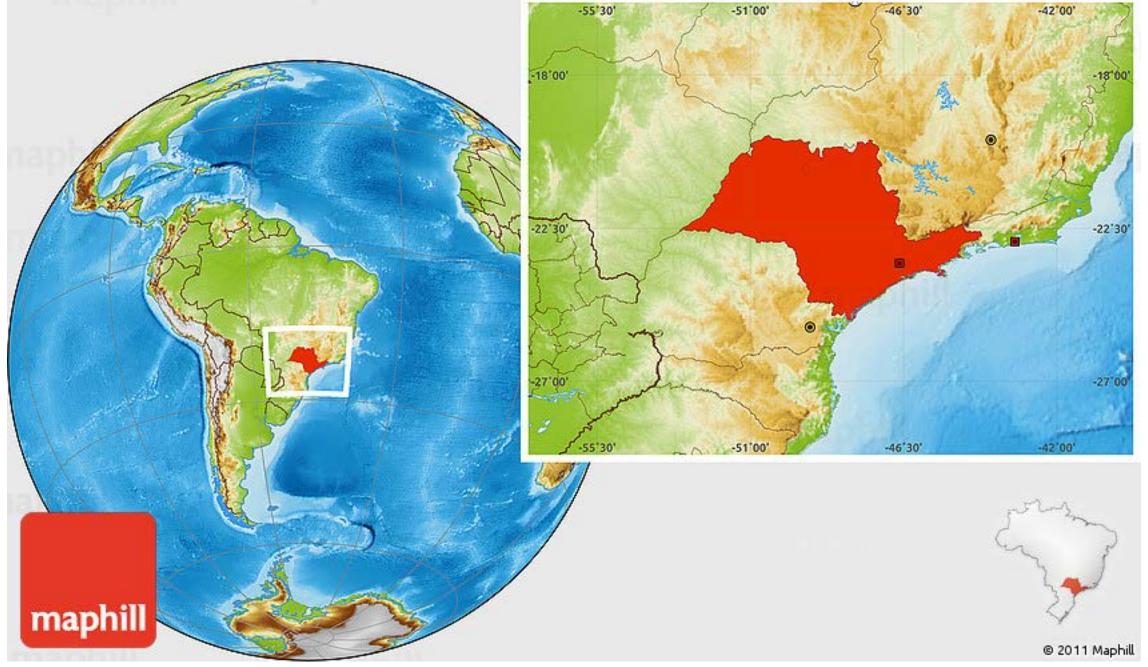


Kangaroo vs. Conventional care

Found no difference between exclusive breastfeeding at 6 to 12 months - RR 1.29, 95% CI (0.95 - 1.76)



OUR EXPERIENCE AT ALBERT EINSTEIN HOSPITAL São Paulo - Brazil



http://www.maphill.com/brazil/sao-paulo/location-maps/physical-map/





WHAT WE DO AT ALBERT EINSTEIN HOSPITAL

- Pregnant women usually accompanied by continuous support throughout labor + childbirth.
 - Obstetric nurses and/or doulas

- Some also hire private pediatrician to take care of newborn and assist with breastfeeding
 - Information and latching techniques.

OUR STRATEGIES INCLUDE:

- Courses for pregnant women labor, delivery and newborn care.
- Alternative labor setting birth center.
- Skin-to-skin contact.
- Breastfeed initiation within first hour of life.
- Rooming-in for healthy mothers and babies.

OUR STRATEGIES INCLUDE:

- Lingual frenulum evaluation of all newborns.
- Lactation consultant evaluation for every mother-baby dyad.
- Speech-language pathologist consultation (if needed).
- Kangaroo care at Neonatal Intensive or Semi-Intensive units.
- Human milk bank + donation.

ALBERT EINSTEIN'S BIRTH CENTER







OUR BIRTH CENTER

Vaginal birth rates (all births):

2014 - 20,2%

Vaginal birth rates (Robson 1 to 4)

• Forcipes birth – 2% (2017 and 2018)

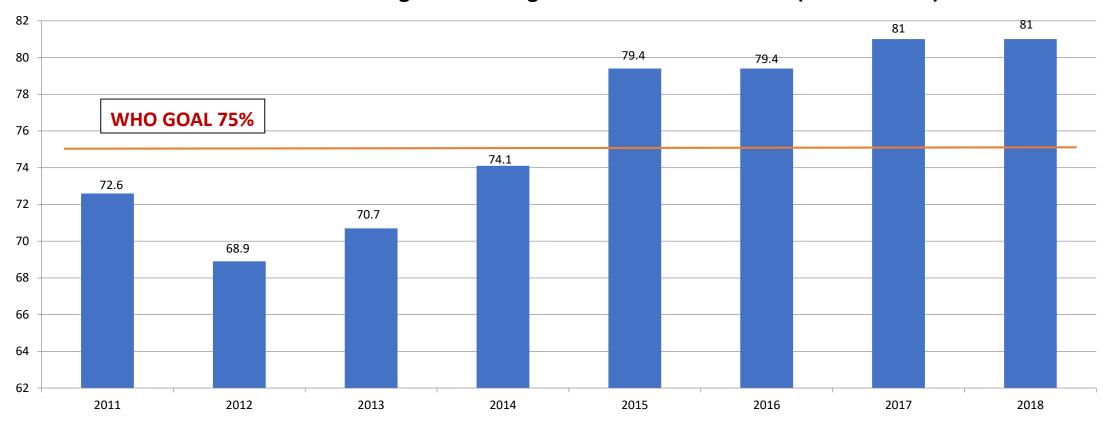
OUR BIRTH CENTER

- Breastfeeding within the first hour of life
 - 2017 81.1%
 - o 2018 89.5%

- Skin-to-skin 87.2% (2017 and 2018).
 - o 12.8% transferred to intensive or semi-intensive units.
 - ☐ Unstable to promote skin-to-skin.

OUR MATERNITY WARD

Exclusive breastfeeding rates amongst roomed-in term babies (2011 to 2018)



OUR MATERNITY WARD

- 5 IBLCE consultants 2 nurses + 3 pediatricians
- Continuous education internal monthly meetings
 - Laser in nipple trauma
 - o Breastfeeding in same-sex couples
 - o Puerperal blues: use of antidepressants and breastfeeding
 - Breastfeeding and tongue-tie babies
 - When and how to use breast pump
- Annual World Breastfeeding week



1-7
DE AGOSTO
2018

IMPORTANT ASPECTS

Engaged & well-informed staff

+

- Motivated mothers
 - Culturally relevant aspect of motherhood

+

Government campaigns



















http://revistapress.com.br/ministerio-da-saude-incentiva-a-doacao-do-leite-materno-em-campanha-da-fields360/





RESULTS
slido.com
#1516



Successful breastfeeding is multifactorial.

Healthcare professionals must continuously support mothers throughout their in-hospital journeys (birth to breastfeeding), adjusting practices that best meet their needs and expectations.

