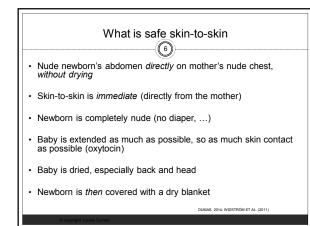


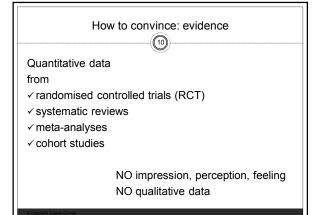
Links between kangaroo care and skin-to-skin care Plenty of evidence; was so clear for premature babies, it was thought that there should be some benefits for term babies also .... First, introduction in industrialized countries in order to \* facilitate mother's first attachment experiences \* encourage first close contacts between parents \* facilitate initiation of breastfeeding But a lot more was found!!!....

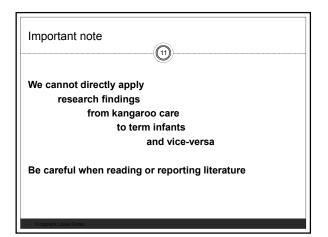




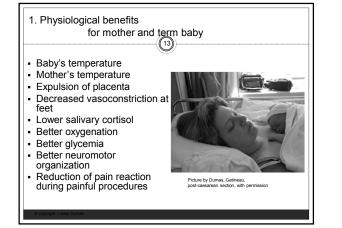


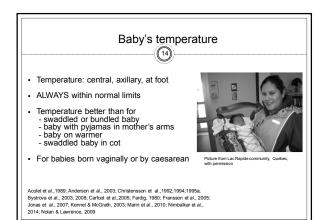


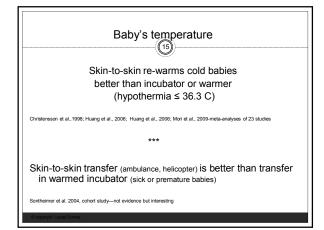


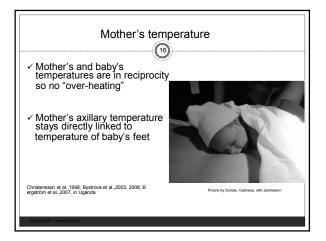


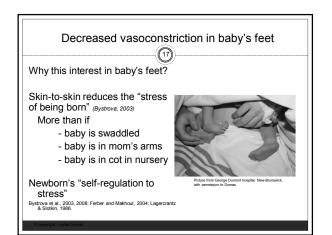


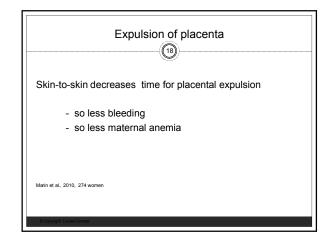


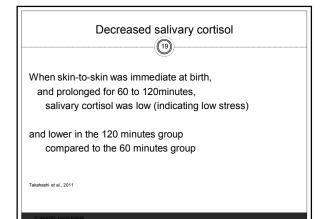


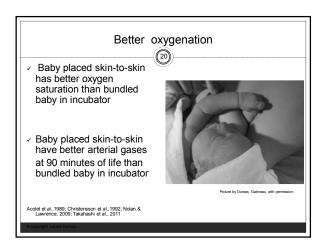


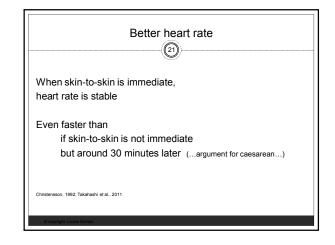


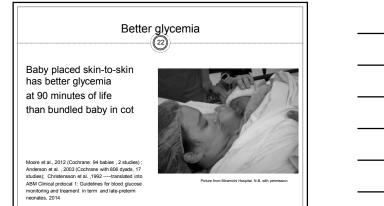


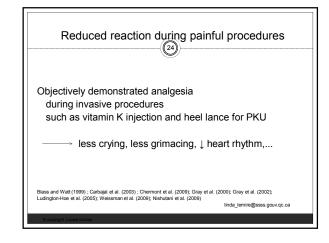


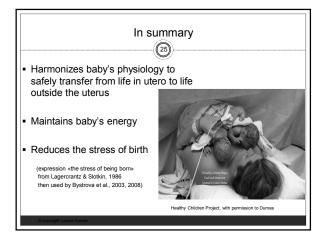


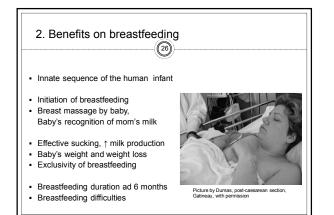












## Innate sequence of the human infant

Widström and colleagues (1993, 8 minutes video and 2011, article): Baby wakes up slowly, creeps towards breast, turns head towards mom's voice and breast, salivates when smelling nipple, licks nipple then attaches spontaneously

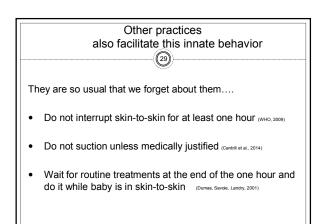
innate sequence of the human infant

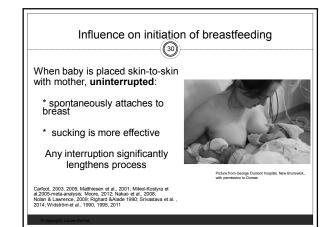
> This predictable behavior starts around 10 minutes of life when baby is placed in uninterrupted skin-to-skin with mother

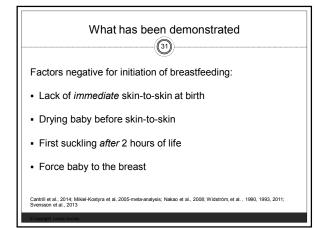
Observational studies: Widström et al. 1995, 2011 and videos 1993, 2010, 2011; Matthiesen et al., 2001



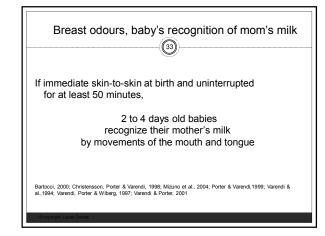


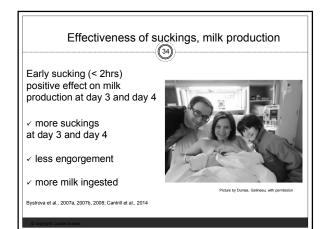


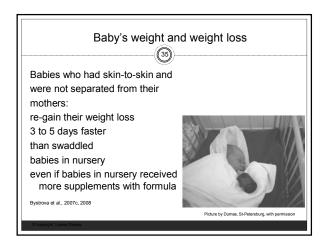


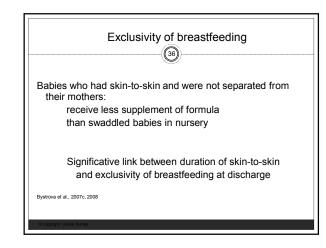


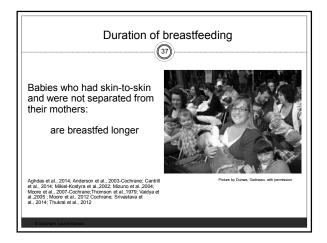


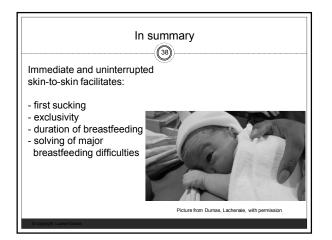


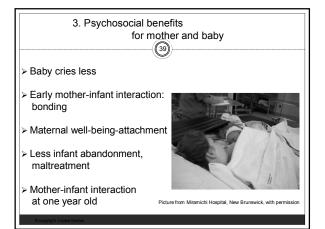


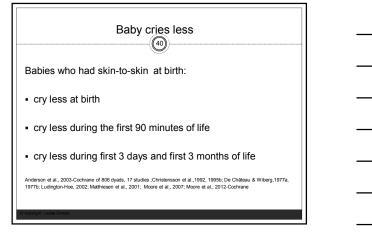










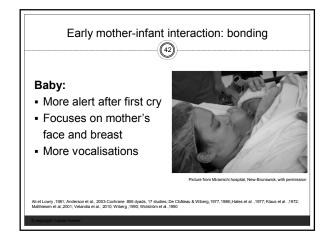


Early mother-infant interaction: bonding

## Mother:

- More visual contacts, more touching; en face position
- More verbal communications
- Keep her baby with her longer, tends to follows whoever takes her baby away from her
- · More affectionate during suckings; keeps baby closer to her
- Less postnatal depression

All & Lowy, 1981; Anderson et al., 2003-Cochrane; Bigelow et al., 2012; De Château & Wiberg, 1977; 1988; Feldman et al., 2010; Francei et al., 2002; Heles et al., 1977; Naus et al., 1972; Matthiesen et al., 2001; Moore et al., 2012-Cochrane; Velandia et al., 2010; Woleg, 1990; Wistorn et al., 1980



## Early mother-infant interaction: bonding

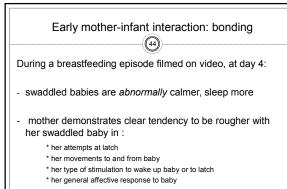
Dumas and colleagues, RCT, 151 dyads videotaped at day 4 during breastfeeding session:

Mothers are *significatively* softer and more patient - if had 2 hours uninterrupted skin-to-skin care at birth



- if non separated from birth

Dumas et al., 2013



Dumas et al., 2013

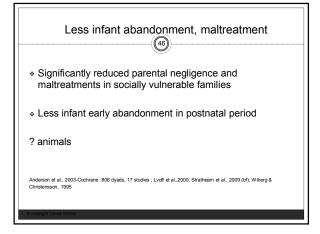
## Maternal well-being-attachment

Skin-to-skin:

- Less maternal stress: reduce gastrin blood level
  Better maternal well-being: increased oxytocin
- Early breastfeeding:
- Significant less depressive symptoms
- Increased mother's socialization
- · Better maternal well-being: bf doubles plasma endorphins

If mom's well-being is repeated frequently  $\rightarrow$  attachment by repeated activation of opioids and oxytocin

Ali et Lowry 1981; Anderson et al., 2003-Cochrane: 806 dyads, 17 studies ; Bystrova et al., 2007b, 2008 ; Carfoot et al., 2005 De Chitesu et Wiberg, 1977a, 1977b; Hales et al., 1977; Karmet et Klaus, 1986; Klaus et al., 1972; Klaus et Kennel, 1976; Moore et al., 2007-Cochrane3 et al., 514 dyads; Widsthort et al., 1970, 1985-2010; Wiherg, 2005





Positive influence on:

\* mother's sensitivity

\* ability of child to calm self
 \* mutual reciprocity (PCERA)

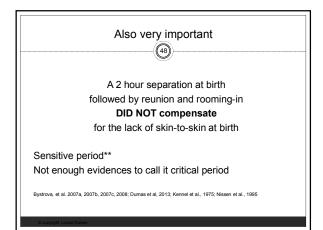
uninterrupted 2 hours of skin-to-skin with mother, all confounding variables taken into account

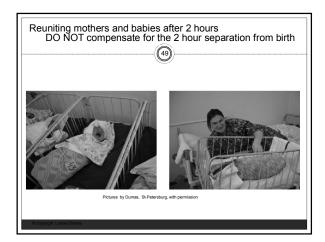
Bystrova et al., 2008, 2009

when child is one year old and benefited from immediate



Picture from Anouk Jolin, with permission to Duma



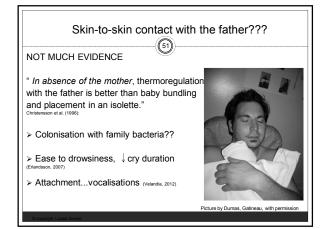




SO...

"we should respect baby and mother instinctive behavioral and endocrine interaction sequence"

(Widström, 1988 and 2011)



Are those evidences important??? YESSSSS!! (52)

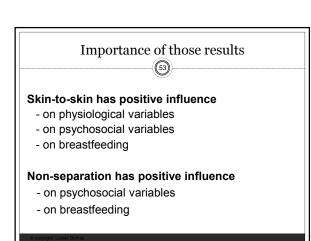
We cannot talk about cultural or personal preferences ...

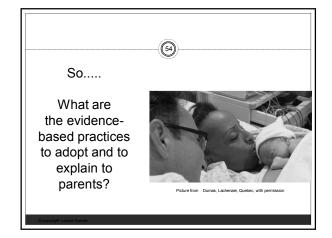
« it is not only nice to do »

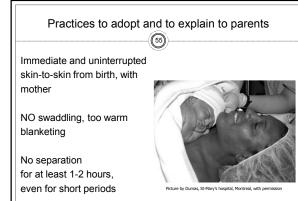
We have demonstrated

« so it must be done »

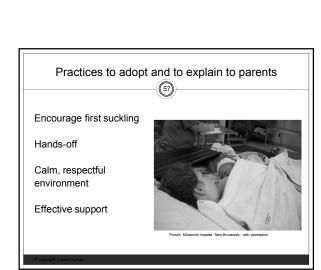
benefits for term babies ...

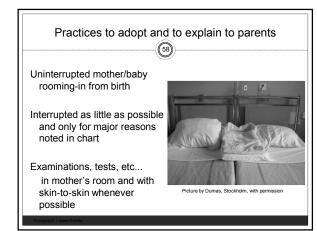


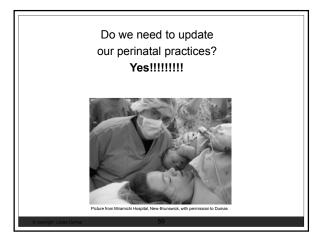












Thank you for your attention	
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	Picture by Dumas, postcaesarewan section, Gatineau, with permission
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