

infant had a secure latch prior to injection and was encouraged to continue breastfeeding if there was a pause. Further, all breastfeeding infants were positioned skin-to-skin during the procedure. It is possible that the added benefit of skin-to-skin positioning further relaxed the breastfed infants in this study compared to other, similar studies.

- One hundred fifty-eight infants between 0 and 6 months old were randomized to either no intervention or breastfeeding during routine vaccine administration (Dilli, Küçük, and Dallar, 2009). Pain was measured using duration of cry and NIPS. Breastfed infants cried on average for 20 seconds, and non-breastfed infants cried on average for 150 seconds ($p < 0.001$). NIPS scores were significantly lower for breastfed infants (NIPS average = 3) compared to non-breastfed infants (NIPS average = 6, $p < 0.001$).

Skin-to-Skin or Kangaroo Care

- Kostandy, Anderson, and Good (2013) conducted an in-hospital randomized-controlled trial among healthy, full-term newborns examining the impact of skin-to-skin infant cry time and consolability among infants receiving a hepatitis B vaccine within the first hour of life. Thirty-six mother-infant dyads were randomized to either routine (infant placed supine in bassinet) or skin-to-skin (prone on mother's chest) vaccine administration. Skin-to-skin infants had shorter cry times and calmed more quickly after vaccine administration.
- Saeidi, Asnaashari, Amirnejad, et al (2011) conducted a randomized-controlled trial of 60 healthy, full-term newborns randomized to either swaddling and placed next to mother, or skin-to-skin positioning for in-hospital hepatitis B vaccine administration. Infants placed skin-to-skin had lower pain intensity scores, cried for a shorter time, and returned to preprocedure behavior more quickly compared to the swaddled infants.
- Chermont, Falcao, de Souza Silva, et al (2009) conducted a trial where 640 infants between 12 and 72 hours old were randomized to either standard care (no analgesia), skin-to-skin initiated 2