CENTER FOR KLINISKE RETNINGSLINJER
- CLEARINGHOUSE

English Summary:

Title:
Clinical guideline for using oral sucrose or breastfeeding/breast milk to prevent pain in newborn infants, caused by needle-related procedure

Background:
All newborns are undergoing needle-related procedures in the danish screeningprograms, and especially the 10% of newborns who is hospitalized. Sucrose and breastfeeding is well known as effective for reducing procedural pain, but the administration seem used different, therefore evidens for optimal dose, the strength of sucrose, and how often to use it is, is wanted

Objectives: To prevent and decrease pain in newborns undergoing needle-related procedures, by using sucrose and breastfeeding

Participants: Newborn is defined as: Term/ preterm neonates with maximum postnatal age of 28 days after reaching 40 weeks postmenstrual age   .

Types of intervention(s) Sucrose or breastfeeding before needle-related procedure

Types of studies: 2 Cochrane review
Types of outcomes: Pain relief and decrease at needle-related procedure

Search strategy: The systematic search were i the following databases: The Cochrane Library, Pub Med, EMBASE, CINAHL, Bibliotek.dk, Sve Med+,TRIP. This guidelinie is an update of " Clinical guideline for using oral sucrose and breastfeeding to prevent pain in newborn infants, caused by needle-related procedure" from 2011. Therefore the search is in the period 2010-2016. Studies in Danish, Norwegian, Swedish an English languages were included

Methodological quality The two review were GRADE -assessed by The Cochrane Libery. We read and used AMSTAR to assessed the review

Data synthesis: Data was synthetized into metanalysis and Summary of Findings

Recommendation for clinical practice

 ↑↑   Sucrose is effective for reducing procedural pain from single events such as heel lance, venipuncture and intramuscular injection in both preterm and term infants
 ↑↑   Breastfeeding or breast milk should be alleviate procedural pain in term neonates undergoing single painful procedure

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