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Question: Should topical anaesthetics before vaccine injections and breastfeeding during vaccine injections vs topical anaesthetics alone be used for reducing vaccine injection pain in children in the first 2 years of life?

Settings: clinic

Bibliography: Gupta 2013 (2)

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Topical anaesthetics before vaccine injections and breastfeeding during vaccine injections	Topical anaesthetics alone	Relative (95% CI)	Absolute		
Distress Acute (measured with: validated tool (Modified Facial Coding System 0-6) by researcher; Better indicated by lower values)												
1	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	30	30	-	SMD 0.35 lower (0.86 lower to 0.16 higher)	⊕⊕○○ LOW	CRITICAL
Distress Acute + Recovery (measured with: validated tool (cry duration) by researcher; Better indicated by lower values)												
1	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ³	none	30	30	-	SMD 0.83 lower (1.36 to 0.3 lower)	⊕⊕○○ LOW	CRITICAL
Distress Recovery (measured with: validated tool (Modified Facial Coding System 0-6) by researcher; Better indicated by lower values)												
1	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ³	none	30	30	-	SMD 1.01 lower (1.55 to 0.47 lower)	⊕⊕○○ LOW	CRITICAL
Safety, Procedure Outcomes, Use of Intervention, Parent Fear, Vaccine Compliance, Preference, Satisfaction (assessed with: no data were identified for these important outcomes)												
0	No evidence available					none	-	-	-	-		IMPORTANT
								0%		-		

¹ Outcome assessor not blinded to the intervention of breastfeeding

² Confidence interval crosses the line of nonsignificance and the sample size was below the recommended optimum information size (OIS) of 400 for an effect size of 0.2

³ Sample size was below the recommended optimum information size (OIS) of 400 for an effect size of 0.2