Revman Plots: Topical anesthetics and breastfeeding compared to topical anesthetics for child up to 2 yrs

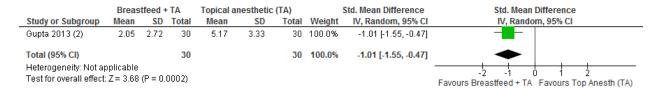
Distress Acute

	Breas	tfeed +	TA	Topical anesthetic (TA)				Std. Mean Difference	Std. Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI				
Gupta 2013 (2)	9.83	0.67	30	10	0.005	30	100.0%	-0.35 [-0.86, 0.16]					
Total (95% CI)			30			30	100.0%	-0.35 [-0.86, 0.16]					
Heterogeneity: Not a Test for overall effect			17)						-2 -1 0 1 2 Favours Breastfeed + TA Favours Top anesth (TA)				

Distress Acute + Recovery

	Breastfeed + TA			Topical anesthetic (TA)				Std. Mean Difference	Std. Mean Difference					
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI		Std. Mean Difference IV, Random, 95% CI				
Gupta 2013 (2)	3.3	3.01	30	6.1	3.64	30	100.0%	-0.83 [-1.36, -0.30]		-				
Total (95% CI)			30			30	100.0%	-0.83 [-1.36, -0.30]		•				
Heterogeneity: Not applicable Test for overall effect: Z = 3.07 (P = 0.002)									-4 Favours B	-2 reastfeed + T/	0 A Favo	2 urs Top A	Anesth (TA)	

Distress Recovery



Author(s): VS/AT **Date:** 2015-03-24

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 ass	essment		No of patien		Effect				
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)		Quality	Importance
Distress	Acute (meas	ured wit	h: validated tool	I (Modified Fac	cial Coding S	System 0-6) by re	searcher; Better indicate	d by lower valu	es)			
-	randomised trials			no serious indirectness	serious ²	none	30	30	-	SMD 0.35 lower (0.86 lower to 0.16 higher)	⊕⊕OO LOW	CRITICAL
Distress	Acute + Rec	overy (m	easured with: v	alidated tool (cry duration)	by researcher; E	Better indicated by lower	values)	ļ			
	randomised trials			no serious indirectness	serious ³	none	30	30	-	SMD 0.83 lower (1.36 to 0.3 lower)	⊕⊕OO LOW	CRITICAL
Distress	Recovery (m	neasured	with: validated	tool (Modified	Facial Codi	ng System 0-6) b	y researcher; Better indic	ated by lower	values)			
	randomised trials			no serious indirectness	serious ³	none	30	30	-	SMD 1.01 lower (1.55 to 0.47 lower)	⊕⊕OO LOW	CRITICAL
Safety, P outcome		itcomes,	Use of Interven	tion, Parent Fe	ear, Vaccine	Compliance, Pre	ference, Satisfaction (ass	sessed with: no	data we	re identified fo	or these	important
	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