Revman Plots: Breastfeeding and sweet-tasting solution (sucrose, glucose) pre injection compared to breastfeeding or sweet-tasting solution (sucrose, glucose) child up to 2 yrs

Distress Acute

	BF(pre) + Sucrose			BF(pre) OR Sucrose				Std. Mean Difference	Std. Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI				
Sahebihagh 2011 (3)	8.14	1.5	15	7.37	1.13	30	49.5%	0.60 [-0.03, 1.23]					
Sahebihagh 2011 (4)	8.14	1.5	15	8.19	1.49	30	50.5%	-0.03 [-0.65, 0.59]					
Total (95% CI)			30			60	100.0%	0.28 [-0.34, 0.90]					
Heterogeneity: Tau² = 0 Test for overall effect: Z				= 0.16); l²	'= 49%			-2 -1 0 1 2 Favours BF(pre) + Sucrose Favours BF(pre) OR Sucros					

Distress Recovery

	BF(pre) + Sucr	ose	BF(pre) OR Sucrose				Std. Mean Difference	Std. Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI			
Sahebihagh 2011 (3)	1.14	1.56	15	0.9	1.56	30	49.9%	0.15 [-0.47, 0.77]	- -			
Sahebihagh 2011 (4)	1.14	1.56	15	1.19	2.34	30	50.1%	-0.02 [-0.64, 0.60]	-			
Total (95% CI)			30			60	100.0%	0.06 [-0.37, 0.50]	•			
Heterogeneity: Tau² = 0 Test for overall effect: Z			lf=1 (P	-4 -2 0 2 4 Favours BF(pre) + Sucrose Favours BF(pre) OR Sucros								

Author(s): VS/AT **Date:** 2015-03-26

Question: Should sweet-tasting solutions (sucrose, glucose) and breastfeeding together before vaccine injections vs sweet-tasting solutions or breastfeeding alone be used for

reducing vaccine injection pain in children 0-2 years?

Settings: clinics

Bibliography: Sahebihagh 2011 (3,4)

			Quality ass	essment		No of pati	E	Effect	Quality	Importance				
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	(cucrose diucose) sweet-testing (95%							
Distress	Distress Acute (measured with: validated tool (Neonatal Infant Pain Scale 0-7) by researcher; Better indicated by lower values)													
1	randomised trials		no serious inconsistency	no serious indirectness	serious ²	none	30	60	-	SMD 0.28 higher (0.34 lower to 0.90 higher)		CRITICAL		
Distress	Distress Recovery (measured with: validated tool (Neonatal Infant Pain Scale 0-7) by researcher; Better indicated by lower values)													
1	randomised trials			no serious indirectness	serious ²	none	30	60	-	SMD 0.06 higher (0.37 lower to 0.5 higher)	⊕⊕OO LOW	CRITICAL		
	Safety, Procedure Outcomes, Use of Intervention, Parent Fear, Vaccine Compliance, Preference, Satisfaction (assessed with: no data were identified for these important outcomes)													
	No evidence available					none	-	-	-	-		IMPORTANT		
1					<u> </u>		and coloctive outcome re-	0%		-				

Unclear risk of bias for several design features including; randomization, blinding of parents and selective outcome reporting

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