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 assessment							No of patients		Effect			
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Breastfeeding and sweet-tasting solution (sucrose, glucose) together before vaccine injections	Breastfeeding or sweet-tasting solution alone	Relative (95% CI)		Quality	Importance
Distress	Acute (meas	sured wi	th: validated too	ol (Neonatal In	Ifant Pain Sc	ale 0-7) by resea	rcher; Better indicated b	by lower values)	<u> </u>		1	
1	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	30	60	-	SMD 0.28 higher (0.34 lower to 0.90 higher)	⊕⊕OO LOW	CRITICAL
Distress	Recovery (n	neasured	d with: validated	tool (Neonata	al Infant Pain	Scale 0-7) by re	searcher; Better indicat	ed by lower values	5)		ļ	<u> </u>
1	randomised trials	serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	30	60	-	SMD 0.06 higher (0.37 lower to 0.5 higher)	⊕⊕OO LOW	CRITICAL
Safety, I outcom		utcomes	, Use of Intervei	ntion, Parent F	Fear, Vaccine	Compliance, Pr	eference, Satisfaction (a	issessed with: no	data wer	e identified fo	or these	important
	No evidence available					none	-	-	-	-		IMPORTAN
								0%	-			

¹ 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