

Bibliography: Horn 1999

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Simultaneous injection	Sequential injection	Relative (95% CI)	Absolute		
Pain (measured with: validated tool (Wong FACES scale 0-5) ; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	24	20	-	SMD 0.31 higher (0.29 lower to 0.9 higher)	⊕○○○ VERY LOW	CRITICAL
Distress Acute + Recovery ³ (measured with: validated tool (Observation Scale of Behavior Distress-Revised, range unknown) by researcher; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	24	22	-	SMD 0.02 lower (0.6 lower to 0.55 higher) ³	⊕○○○ VERY LOW	IMPORTANT
Distress Acute + Recovery Unclear (measured with: validated tool (Visual Analog Scale 0-10) by parent; Better indicated by lower values)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ²	none	24	22	-	SMD 0.14 lower (0.71 lower to 0.44 higher)	⊕○○○ VERY LOW	IMPORTANT
Parent Preferences ⁴ (assessed with: question about preference for injection method after injections)												
1	randomised trials	very serious ¹	no serious inconsistency	no serious indirectness	serious ⁵	none	23/24 (95.8%)	11/22 (50%)	RR 1.92 (1.25 to 2.93)	460 more per 1000 (from 125 more to 965 more)	⊕○○○ VERY LOW	IMPORTANT
Fear, Procedure Outcomes, Parent Fear, Vaccine Compliance, Memory, Preference, Satisfaction (assessed with: no data were identified for these important outcomes)												

0	No evidence available					none	-	-	-	-		IMPORTANT
								0%		-		

¹ Immunizers, researchers, children and parents not blinded; outcome assessor not blinded and imbalance in baseline pre-injection measures; injection procedure not standardized (e.g., positioning, order of injection)

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

³ Data from 1 study (Horn 1999) included without standardization of scores to the same scale

⁴ Favours simultaneous injection

⁵ Sample size was below the recommended optimum information size (OIS) of 400 for an effect size of 0.2