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Date: 2015-03-21

Question: Should music distraction vs no treatment be used for reducing vaccine injection pain in adolescents >12 -17 years?¹

Settings: school

Bibliography: Kristjansdottir 2011 (1,2)

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Music/auditory distraction	No treatment	Relative (95% CI)	Absolute		
Pain² (measured with: validated tools (Visual Analog Scale 0-3, 0-10); Better indicated by lower values)												
1	randomised trials	serious ³	no serious inconsistency	no serious indirectness	serious ⁴	none	79	39	-	SMD 0.04 lower (0.42 lower to 0.34 higher) ²	⊕⊕○○ LOW	CRITICAL
Fear (assessed with: no data were identified for this critically important outcome)												
0	No evidence available					none	-	-	-	-		CRITICAL
Distress, Procedure Outcomes, Use of Intervention, 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 In study by Kristjansdottir (2011), analysis (1) compared music with headphones with no treatment and analysis (2) compared music without headphones with no treatment

² In study by Kristjansdottir (2011), the sample size in the control group was divided by 2

³ Participants not blinded; immunizers blinded to hypothesis

⁴ Confidence interval crosses the line of nonsignificance and sample size was below the recommended optimum information size (OIS) of 400 for an effect size of 0.2