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Question: Should non in vivo (imaginal) exposure-based therapy for children with high levels of needle fear vs no treatment be used for reducing vaccine injection fear in children 7 - 17 years?¹

Settings: university psychology clinic, university Bibliography: Cornwall 1996, Muris 1998 (2)

			Quality asses	ssment		No of patients		Effect				
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Non in vivo (imaginal) exposure-based therapy for children with high levels of needle fear	No treatment	Relative (95% CI)	Absolute	- Quality	Importance
	, ,			•			SF 0-15, Self Assessment scale 19-57) ; Better indica				l Iring lab-	based fear
	randomised trials	serious ²	no serious inconsistency ³	very serious ⁴	serious ⁵	none	21	20	-	SMD 0.88 lower (1.7 to 0.05 lower)	⊕OOO VERY LOW	CRITICAL
Fear (spe lower val		onth follow	l wup (measured v	vith: validated	d tool (Fear S	Survey Schedule	for Children Revised - Fea	ar of the Ui	nknown S	Subscale 19-57)	; Better i	ndicated by
1	randomised trials	serious ²	no serious inconsistency	very serious ⁶	serious ⁵	none	12	12	-	SMD 0.89 lower (1.73 to 0.04 lower)	⊕OOO VERY LOW	CRITICAL
Fear (ger lower val		red with:	validated tools (L Revised Child	l dren's Manife	l est Anxiety Scale	e 0-37, Fear Survey Sched	ule for Chil	dren Rev	vised 80-240); B	etter ind	icated by
l -	randomised trials	serious ²	no serious inconsistency	very serious ⁶	serious ⁷	none	12	12	-	SMD 0.68 lower (1.51 lower to 0.15 higher)	⊕000 VERY LOW	IMPORTANT
	neral) at 3 mo dicated by lo		• •	l rith: validated	l tools (Revis	l sed Children's Ma	anifest Anxiety Scale 0-37	, Fear Surv	ey Sche	dule for Childre	n Revise	d 80-240);
1	randomised	serious ²	no serious	very serious ⁶	serious ⁵	none	12	12	-	SMD 0.93 lower (1.78 to 0.08	⊕OOO VERY	IMPORTANT

	trials		inconsistency							lower)	LOW	
istres	s (specific) (m	easured v	l vith: validated to	ool (Darkness	Fear Behav	viour Questionna	ire 0-20) by parent; Bette	er indicated b	y lower	values)		
	randomised trials	serious ²	no serious inconsistency	very serious ⁶	serious ⁵	none	12	12	-	SMD 1.85 lower (2.84 to 0.87 lower)	⊕000 VERY LOW	IMPORTAN
istres	s (specific) at	3 month f	ollowup (measu	red with: valid	lated tool (I	Darkness Fear Be	ehaviour Questionnaire (0-20) by pare	nt; Bette	r indicated by lov	wer valu	es)
	randomised trials	serious ²	no serious inconsistency	very serious ⁶	serious ⁵	none	12	12	-	SMD 2.19 lower (3.24 to 1.14 lower)	⊕000 VERY LOW	IMPORTAN
ompli	ance (measure	ed with: va	alidated tool (Be	havioural Avo	idance Tes	st) ; Better indica	ed by higher values)					
	randomised trials	serious ⁸	no serious inconsistency ³	very serious ⁴	serious ⁷	none	21	20	-	SMD 0.74 higher (0.82 lower to 2.31 higher) ⁹	⊕OOO VERY LOW	IMPORTAN
ompli	ance at 3 mon	th followu	p (measured wi	th: validated t	ool (Behavi	ioural Avoidance	Test) ; Better indicated	by higher val	ues)			
	randomised trials	serious ¹⁰	no serious inconsistency	very serious ⁶	serious ⁵	none	12	12	-	SMD 1.76 higher (0.79 to 2.73 higher)	⊕OOO VERY LOW	IMPORTAN
ain, Fa	inting, Proced	dure Outc	omes, Parent Fe	ear, Memory, F	Preference,	Satisfaction (ass	essed with: no data wer	e identified fo	or these	important outco	mes)	

¹ Included study by Muris (1998) investigated the effectiveness of single session exposure-based treatment; study by Cornwall (1996) investigated multiple session exposure-based treatment

² Therapists and participants not blinded; outcome assessor not blinded

³ In 1 study (Muris 1998), the control group was a computer-based exposure task; in the other study (Cornwall 1996), the control group was a wait-list control

⁴ Phobias included; spider, darkness

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

⁶ Phobia included: darkness

⁷ Confidence intervals cross 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

⁸ Therapists and participants not blinded: in 1 study (Muris 1998), unclear whether outcome assessor blinded; in another study (Cornwall 1996), outcome assessor not blinded

⁹ Removal of the study by Muris (1998) leads to an SMD = 1.54 (0.61, 2.47) ¹⁰ Therapists and participants not blinded; outcome assessor not blinded