Author(s): CMM/MN/AT
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Question: Should in vivo exposure-based therapy for adults with high levels of needle fear vs placebo/control (muscle tension) be used for reducing vaccine injection fear in adults? Settings: unclear
Bibliography: Ost 1991 (1)

| Quality assessment |  |  |  |  |  |  | No of patients |  | Effect |  | Quality | Importance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No of studies | Design | Risk of bias | Inconsistency | Indirectness | Imprecision | Other considerations | In vivo exposurebased therapy for adults with high levels of needle fear | Placebolcontrol (muscle tension) | Relative (95\% $\mathrm{CI})$ | Absolute |  |  |

Fear (specific) (measured with: validated tool (Mutilation Questionnaire 0-30, Fear Survey Schedule 3rd Ed - Blood Subscale 8-40, Fear Questionnaire - Blood/Injury Subscale 0-40, Anxiety during lab-based fear-inducing task 0-10); Better indicated by lower values)

| 1 | randomised trials | serious ${ }^{1}$ | no serious inconsistency | serious ${ }^{2}$ | serious ${ }^{3}$ | none | 10 | 10 | - | SMD 1.09 <br> lower (2.04 to <br> 0.14 lower) | $\oplus \mathrm{OOO}$ <br> VERY <br> LOW | CRITICAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Fear (specific) at 1 year followup (measured with: validated tool (Mutilation Questionnaire 0-30, Fear Survey Schedule 3rd Ed - Blood Subscale 8-40, Fear Questionnaire Blood/Injury Subscale 0-40, Anxiety during lab-based fear-inducing task 0-10); Better indicated by lower values)

| 1 | randomised trials | serious ${ }^{1}$ | no serious inconsistency | serious ${ }^{2}$ | serious ${ }^{4}$ | none | 10 | 10 | - | SMD 0.28 <br> lower (1.16 <br> lower to 0.6 higher) |  | CRITICAL |
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Fear (general) (measured with: validated tool (Fear Survey Schedule 3rd Ed 76-380) ; Better indicated by lower values)

| 1 | randomised trials | serious ${ }^{1}$ | no serious inconsistency | serious ${ }^{2}$ | serious ${ }^{4}$ | none | 10 | 10 | - | $\begin{gathered} \hline \text { SMD } 0.46 \\ \text { lower }(1.35 \\ \text { lower to } 0.43 \\ \text { higher) } \end{gathered}$ | $\oplus \mathrm{OOO}$ <br> VERY <br> LOW | IMPORTANT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fear (general) at 1 year followup (measured with: validated tool (Fear Survey Schedule 3rd Ed 76-380); Better indicated by lower values) |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | randomised | serious ${ }^{1}$ | no serious | serious ${ }^{2}$ | serious ${ }^{4}$ | none | 10 | 10 | - | $\begin{gathered} \hline \text { SMD } 0.51 \\ \text { lower (1.41 } \end{gathered}$ | $\begin{aligned} & \oplus \mathrm{OOO} \\ & \text { VERY } \end{aligned}$ | IMPORTANT |


|  | trials |  | inconsistency |  |  |  |  |  |  | lower to 0.38 higher) | LOW |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fainting ${ }^{5}$ (measured with: validated tool (Fainting behaviour during lab-based fear-inducing task 0-4); Better indicated by lower values) |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | randomised trials | serious ${ }^{6}$ | no serious inconsistency | serious ${ }^{2}$ | serious ${ }^{3}$ | none | 10 | 10 | - | SMD 1.16 higher $(0.19$ to 2.12 higher $^{5}$ | $\oplus \mathrm{OOO}$ <br> VERY <br> LOW | IMPORTANT |
| Fainting at 1 year followup ${ }^{5}$ (measured with: validated tool (Fainting behaviour during lab-based fear-inducing task 0-4); Better indicated by lower values) |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | randomised trials | serious ${ }^{6}$ | no serious inconsistency | serious ${ }^{2}$ | serious ${ }^{3}$ | none | 10 | 10 | - | SMD 0.97 <br> higher $(0.03$ to <br> 1.91 higher $^{5}$ | $\oplus \mathrm{OOO}$ <br> VERY <br> LOW | IMPORTANT |
| Compliance (measured with: validated tool (Behavioural Avoidance Test); Better indicated by higher values) |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | randomised trials | serious ${ }^{6}$ | no serious inconsistency | serious ${ }^{2}$ | serious ${ }^{4}$ | none | 10 | 10 | - | SMD 0.80 lower (1.72 lower to 0.12 higher) | $\begin{aligned} & \text { ĐOOO } \\ & \text { VERY } \\ & \text { LOW } \end{aligned}$ | IMPORTANT |
| Compliance at 1 year followup (measured with: validated tool (Behavioural Avoidance Test); Better indicated by higher values) |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | randomised trials | serious ${ }^{6}$ | no serious inconsistency | serious ${ }^{2}$ | serious ${ }^{4}$ | none | 10 | 10 | - | SMD 0.74 <br> lower (1.66 <br> lower to 0.17 higher) | $\oplus \mathrm{OOO}$ <br> VERY <br> LOW | IMPORTANT |
| Pain, Distress, Procedure Outcomes, Memory, Preference, Satisfaction (assessed with: no data were identified for these important outcomes) |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | No evidence available |  |  |  |  | none | - | 0\% | - | ${ }^{-}$ |  | IMPORTANT |

[^0]
[^0]:    Therapist and participants not blinded; outcome assessor not blinded
    ${ }^{2}$ Not vaccination or needle procedure; however, includes individuals with blood and injury phobia
    ${ }^{3}$ Sample size was below the recommended optimum information size (OIS) of 400 for an effect size of 0.2
    ${ }^{4}$ 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
    ${ }^{5}$ In included study (Ost 1991), the control group received instruction in a muscle tension technique, which may have had a benefit on this outcome (fainting)
    ${ }^{6}$ Therapist and participant not blinded; unclear if outcome assessor blinded

