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Supplementary file 3. ROB 2 - Risk of Bias

| Unique ID | 1 | Study ID | J. L. Castillo, 2011 | Assessor | R1/R2 | |
|---|--|------------------|--|--|--|--|
| Ref or Label | | Aim | Adhering to intervention (the 'per-protocol' effect) | The effect of adhering to intervention | Non-adherence of trial participants to their assigned intervention | |
| Experimental | Silver Diamine Fluoride | Comparator | Sterile water | Source | Journal article(s) | |
| Outcome | Reduction of pain (tooth sensitivity) | Results | | Weight | 1 | |
| Domain | Signaling question | | | Response | Comments | |
| | 1.1 Was the allocation sequence random? | | | Y | | |
| Bias arising | 1.2 Was the allocation sequence concealed until participants were enrolled and assigned to interventions? | | | No information on allocation method | | |
| from the randomization process | 1.3 Did baseline differences between intervention groups sugges process? | st a problem wi | th the randomization | N | | |
| | Risk of bias judgement | | | Some concerns | | |
| | 2.1 Were participants aware of their assigned intervention during the trial? | | N | | | |
| Bias due to deviations from intended interventions | 2.2 Were carers and people delivering the interventions aware of participants' assigned intervention during the trial? | | | PN | | |
| | 2.3. [If applicable:] If Y/PY/NI to 2.1 or 2.2: Were important non-pacross intervention groups? | protocol interve | ntions balanced | NA | | |

| | 2.4. [If applicable:] Were there failures in implementing the intervention that could have affected the outcome? | NA | |
|--|---|---------------|---|
| | 2.5. [If applicable:] Was there non-adherence to the assigned intervention regimen that could have affected participants' outcomes? | NI | No information on non- adherence to intervention |
| | 2.6. If N/PN/NI to 2.3, or Y/PY/NI to 2.4 or 2.5: Was an appropriate analysis used to estimate the effect of adhering to the intervention? | | |
| | Risk of bias judgement | Some concerns | |
| | 3.1 Were data for this outcome available for all, or nearly all participants randomized? | Υ | |
| | 3.2 If N/PN/NI to 3.1: Is there evidence that the result was not biased by missing outcome data? | NA | |
| Bias due to missing outcome data | 3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value? | NA | |
| outcome data | 3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value? | NA | |
| | Risk of bias judgement | Low | |
| | 4.1 Was the method of measuring the outcome inappropriate? | N | |
| | 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? | N | |
| Bias in | 4.3 Were outcome assessors aware of the intervention received by study participants? | PN | |
| measurement of the outcome | 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? | NA | |
| | 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received? | NA | |
| | Risk of bias judgement | Low | |
| Bias in selection of the reported result | 5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis? | NI | Data don't make it clear |
| | 5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain? | PY | Data used VAS score and visual changes |

| | 5.3 multiple eligible analyses of the data? | | | PN | | |
|---|--|------------------|--|---|--|--|
| | Risk of bias judgement | | | High | | |
| Overall bias | Risk of bias judgement | | | High | | |
| Unique ID | 2 | Study ID | G.G. Craig, 2012 | Assessor | R1/R2 | |
| Ref or Label | | Aim | Adhering to intervention (the 'per-protocol' effect) | The effect of adhering to intervention | Non-adherence of trial participants to their assigned intervention | |
| Experimental | Silver Diamine Fluoride/potassium iodide | Comparator | Oxalic acid-based preparation | Source | Journal article(s) | |
| Outcome | Reduction of pain (tooth sensitivity) | Results | | Weight | 1 | |
| Domain | Signaling question | | | Response | Comments | |
| | 1.1 Was the allocation sequence random? | | | NI | | |
| Bias arising from the randomization process | 1.2 Was the allocation sequence concealed until participants well interventions? | re enrolled and | assigned to | PN The authors don't explain how the randomization was made | | |
| | 1.3 Did baseline differences between intervention groups sugges process? | st a problem wit | h the randomization | N | | |
| | Risk of bias judgement | | | High | High | |
| Bias due to deviations from intended interventions | 2.1 Were participants aware of their assigned intervention during | the trial? | | PY | They didn't explain anything | |
| | 2.2 Were carers and people delivering the interventions aware of participants' assigned intervention during the trial? | | | PY | about taste and smell. The participants could have known. They don't explain if the interventionists knew what they were delivering. | |
| | 2.3. [If applicable:] If Y/PY/NI to 2.1 or 2.2: Were important non-protocol interventions balanced across intervention groups? | | | NA | | |
| | 2.4. [If applicable:] Were there failures in implementing the intervoutcome? | ention that cou | ld have affected the | NA | | |

| | 2.5. [If applicable:] Was there non-adherence to the assigned intervention regimen that could have affected participants' outcomes? | PN | No information about non-adherence to the intervention. |
|--|--|------|--|
| | 2.6. If N/PN/NI to 2.3, or Y/PY/NI to 2.4 or 2.5: Was an appropriate analysis used to estimate the effect of adhering to the intervention? | NA | |
| | Risk of bias judgement | High | |
| | 3.1 Were data for this outcome available for all, or nearly all participants randomized? | PY | |
| | 3.2 If N/PN/NI to 3.1: Is there evidence that the result was not biased by missing outcome data? | NA | |
| Bias due to missing | 3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value? | NA | |
| outcome data | 3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value? | NA | |
| | Risk of bias judgement | Low | |
| | 4.1 Was the method of measuring the outcome inappropriate? | PN | They used the VAS scale for pain. |
| | 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? | Υ | They used the VAS scale and visual changes for the second outcome. |
| Bias in measurement | 4.3 Were outcome assessors aware of the intervention received by study participants? | NA | |
| of the outcome | 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? | NA | |
| | 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received? | NA | |
| | Risk of bias judgement | High | |
| | 5.1 Were the data that produced this result in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis? | PN | There was no information about on this topic. |
| Bias in selection of the reported result | 5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain? | PY | They used VAS scoring and visual changes based on photographs |
| | 5.3 multiple eligible analyses of the data? | PN | |
| L | | | |

| | Risk of bias judgement | High | | | | |
|---|--|-----------------|--|---|---|--|
| Overall bias | Risk of bias judgement | | | High | | |
| Unique ID | 3 | Study ID | N. Permata, 2018 | Assessor | R1/R2 | |
| Ref or Label | | Aim | Adhering to intervention (the 'per-protocol' effect) | The effect of adhering to intervention | Non-adherence of trial participants to their assigned intervention | |
| Experimental | Silver Diamine Fluoride | Comparator | Silver Diamine Fluoride followed by CO2 laser treatment | Source | Journal article(s) | |
| Outcome | Compare the efficacy of silver diamine fluoride and CO2 laser in reducing the dentin hypersensitivity score | Results | | Weight | 1 | |
| Domain | Signaling question | | | Response | Comments | |
| | 1.1 Was the allocation sequence random? | | | PY | | |
| Bias arising from the randomization process | 1.2 Was the allocation sequence concealed until participants we interventions? | re enrolled and | assigned to | No information on the method of randomization | | |
| | 1.3 Did baseline differences between intervention groups suggest a problem with the randomization process? | | | Y | The study was not statistically significant, since some results were p>0.05. | |
| | Risk of bias judgement | | | High | | |
| | 2.1 Were participants aware of their assigned intervention during the trial? | | | PY | , , | |
| Bias due to deviations from intended interventions | 2.2 Were carers and people delivering the interventions aware of participants' assigned intervention during the trial? | | | PY | one group applied a laser. Consequently, the participants knew which group they were from. Probably yes, because they needed to apply lasers only to one of the groups. | |
| | 2.3. [If applicable:] If Y/PY/NI to 2.1 or 2.2: Were important non-protocol interventions balanced across intervention groups? | | | NA | | |
| | 2.4. [If applicable:] Were there failures in implementing the intervoutcome? | ention that cou | ld have affected the | NA | | |

| | 2.5. [If applicable:] Was there non-adherence to the assigned intervention regimen that could have affected participants' outcomes? | PN | No information on non-adherence to the intervention. | |
|--|---|------|---|--|
| | 2.6. If N/PN/NI to 2.3, or Y/PY/NI to 2.4 or 2.5: Was an appropriate analysis used to estimate the effect of adhering to the intervention? | NA | | |
| | Risk of bias judgement | High | | |
| Diag due to | 3.1 Were data for this outcome available for all, or nearly all, participants randomized? | Υ | | |
| Bias due to missing outcome data | 3.2 If N/PN/NI to 3.1: Is there evidence that the result was not biased by missing outcome data? | NA | | |
| | 3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value? | NA | | |
| | 3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value? | NA | | |
| | Risk of bias judgement | Low | | |
| | 4.1 Was the method of measuring the outcome inappropriate? | N | | |
| | 4.2 Could measurement or ascertainment of the outcome have differed between intervention groups? | N | | |
| Bias in | 4.3 Were outcome assessors aware of the intervention received by study participants? | Υ | The assessors were aware. | |
| measurement of the outcome | 4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received? | Υ | Knowledge could boye | |
| | 4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received? | Υ | Knowledge could have influenced the results | |
| | Risk of bias judgement | High | | |
| | 5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis? | PN | There was no information on this topic. | |
| Bias in selection of the reported result | 5.2 multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain? | Υ | They used VAS for two types of stimuli (evaporative and thermal) and also DIAGNOdent. | |
| | 5.3 multiple eligible analyses of the data? | PN | | |
| | Risk of bias judgement | High | | |
| Overall bias | Risk of bias judgement | High | 3 | |