

Report Supplementary Material 4: RCT Study Design Data Extraction and Quality Appraisal

Table of Contents

1. <i>RCT Study Design Data Extraction and Coding Tree</i>	2
2. <i>RCT Study Design Quality Appraisal Tool (1)</i>	9
3. <i>References</i>	10

1. RCT Study Design Data Extraction and Coding Tree

- i) STUDY DESIGN (ID = 9091051) [Not selectable (no checkbox)]
 - Study design (ID = 9091052) [Not selectable (no checkbox)]
 - RCT (ID = 9091053) [Selectable (show checkbox)]
 - Quasi-experiment (ID = 9091054) [Selectable (show checkbox)]
 - Other study design (ID = 9091055) [Selectable (show checkbox)]
 - Method of recruitment (ID = 9091056) [Not selectable (no checkbox)]
 - Describe - open text (ID = 9091059) [Selectable (show checkbox)]
 - Recruited by clinicians (ID = 9223667) [Selectable (show checkbox)]
 - Not stated (ID = 9091057) [Selectable (show checkbox)]
 - Method of randomisation (ID = 9091060) [Not selectable (no checkbox)]
 - Computer generated randomisation (ID = 9119984) [Selectable (show checkbox)]
 - Other type of randomisation - add details (ID = 9144299) [Selectable (show checkbox)]
 - Not stated (ID = 9119985) [Selectable (show checkbox)]
 - Unit of randomisation (ID = 9144448) [Not selectable (no checkbox)]
 - Randomisation at child level (ID = 9144449) [Selectable (show checkbox)]
 - Randomisation at family level (ID = 9144450) [Selectable (show checkbox)]
 - Randomisation at agency level (ID = 9144451) [Selectable (show checkbox)]
 - Other level of randomisation - add details (ID = 9144452) [Selectable (show checkbox)]
 - Not stated (ID = 9144453) [Selectable (show checkbox)]
 - Cluster randomisation (ID = 9203114) [Not selectable (no checkbox)]
 - Yes (ID = 9203115) [Selectable (show checkbox)]
 - No (ID = 9203116) [Selectable (show checkbox)]
 - Not stated (ID = 9203117) [Selectable (show checkbox)]
 - Blinding (ID = 9091063) [Not selectable (no checkbox)]
 - Participants blinded? (ID = 9144454) [Not selectable (no checkbox)]
 - Yes (ID = 9144455) [Selectable (show checkbox)]
 - No (ID = 9144456) [Selectable (show checkbox)]
 - Not stated (ID = 9144457) [Selectable (show checkbox)]
 - Allocation sequence (ID = 9091067) [Not selectable (no checkbox)]
 - Yes - add details (ID = 9091068) [Selectable (show checkbox)]
 - No (ID = 9091069) [Selectable (show checkbox)]
 - Not stated (ID = 9091070) [Selectable (show checkbox)]
 - (ID = 9236028) [Not selectable (no checkbox)]
 - Allocation concealment (ID = 9091071) [Not selectable (no checkbox)]
 - Yes - add details (ID = 9091072) [Selectable (show checkbox)]
 - No (ID = 9091073) [Selectable (show checkbox)]
 - Not stated (ID = 9091074) [Selectable (show checkbox)]

- Were they concealed until after baseline (ID = 9144470) [Not selectable (no checkbox)]
 - Yes - add details (ID = 9144471) [Selectable (show checkbox)]
 - No (ID = 9144472) [Selectable (show checkbox)]
 - Not stated (ID = 9144473) [Selectable (show checkbox)]
 - (ID = 9236093) [Not selectable (no checkbox)]
 - Total sample size (all groups) (ID = 9091075) [Not selectable (no checkbox)]
 - Not stated (ID = 9091076) [Selectable (show checkbox)]
 - Details (ID = 9091077) [Selectable (show checkbox)]
 - Power calculation included (ID = 9091078) [Not selectable (no checkbox)]
 - Yes (ID = 9091079) [Selectable (show checkbox)]
 - No (ID = 9091080) [Selectable (show checkbox)]
 - Not stated (ID = 9091081) [Selectable (show checkbox)]
 - If they include a power calculation, is the study sufficiently powered? (ID = 9236102) [Not selectable (no checkbox)]
 - Yes (ID = 9236103) [Selectable (show checkbox)]
 - No (ID = 9236104) [Selectable (show checkbox)]
 - Not stated (ID = 9236106) [Selectable (show checkbox)]
 - ii) POPULATION (ID = 9091089) [Not selectable (no checkbox)]
 - Setting (ID = 9091090) [Not selectable (no checkbox)]
 - Not stated (ID = 9091091) [Selectable (show checkbox)]
 - Details (ID = 9091092) [Selectable (show checkbox)]
 - Residential setting (ID = 9223678) [Selectable (show checkbox)]
 - Foster care (ID = 9267723) [Selectable (show checkbox)]
 - Birth parents (ID = 9412544) [Selectable (show checkbox)]
 - Kinship care (ID = 9412726) [Selectable (show checkbox)]
 - Target population of intervention (ID = 9091093) [Selectable (show checkbox)]
 - Inclusion criteria (ID = 9091094) [Not selectable (no checkbox)]
 - Details (ID = 9091096) [Selectable (show checkbox)]
 - Not stated (ID = 9091097) [Selectable (show checkbox)]
 - Exclusion criteria (ID = 9091098) [Not selectable (no checkbox)]
 - Details (ID = 9091099) [Selectable (show checkbox)]
 - Not stated (ID = 9091100) [Selectable (show checkbox)]
 - Intervention participants (ID = 9091104) [Not selectable (no checkbox)]
 - Total participant sample (n) (ID = 9091101) [Not selectable (no checkbox)]
 - Details (ID = 9091102) [Selectable (show checkbox)]
 - Not stated (ID = 9091103) [Selectable (show checkbox)]
 - Age (ID = 9091105) [Not selectable (no checkbox)]
 - Mean age (ID = 9133478) [Selectable (show checkbox)]
 - SD age (ID = 9133479) [Selectable (show checkbox)]
 - Min age (ID = 9133480) [Selectable (show checkbox)]

- Max age (ID = 9133481) [Selectable (show checkbox)]
 - Gender % (ID = 9091112) [Not selectable (no checkbox)]
 - % female (ID = 9091113) [Selectable (show checkbox)]
 - % male (ID = 9091114) [Selectable (show checkbox)]
 - Not stated (ID = 9091115) [Selectable (show checkbox)]
 - Ethnicity % (ID = 9091118) [Not selectable (no checkbox)]
 - Not stated (ID = 9091120) [Selectable (show checkbox)]
 - Details (ID = 9091119) [Selectable (show checkbox)]
 - % White (ID = 9101747) [Selectable (show checkbox)]
 - % Mixed (ID = 9101748) [Selectable (show checkbox)]
 - % Hispanic/Latino (ID = 9101749) [Selectable (show checkbox)]
 - % Black (ID = 9101750) [Selectable (show checkbox)]
 - % Other (ID = 9232475) [Selectable (show checkbox)]
- Children and young people (if not intervention participant) (ID = 9091124) [Not selectable (no checkbox)]
 - Total child sample (n) (ID = 9091125) [Not selectable (no checkbox)]
 - Details (ID = 9091126) [Selectable (show checkbox)]
 - Not stated (ID = 9091127) [Selectable (show checkbox)]
 - Age (ID = 9091128) [Not selectable (no checkbox)]
 - Mean age (ID = 9091129) [Selectable (show checkbox)]
 - SD age (ID = 9091130) [Selectable (show checkbox)]
 - Min age (ID = 9133957) [Selectable (show checkbox)]
 - Max age (ID = 9133958) [Selectable (show checkbox)]
 - Gender % (ID = 9091134) [Not selectable (no checkbox)]
 - % female (ID = 9091135) [Selectable (show checkbox)]
 - % male (ID = 9091136) [Selectable (show checkbox)]
 - Not stated (ID = 9091137) [Selectable (show checkbox)]
 - Ethnicity % (ID = 9091138) [Not selectable (no checkbox)]
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 - % White (ID = 9101751) [Selectable (show checkbox)]
 - % Mixed (ID = 9101752) [Selectable (show checkbox)]
 - % Hispanic/Latino (ID = 9101753) [Selectable (show checkbox)]
 - % Black (ID = 9101754) [Selectable (show checkbox)]
 - % Other (ID = 9521511) [Selectable (show checkbox)]
 - Not stated (ID = 9091140) [Selectable (show checkbox)]
- Comparability of groups at baseline (if RCT) (ID = 9091141) [Not selectable (no checkbox)]
 - Details (ID = 9091142) [Selectable (show checkbox)]
 - Not stated (ID = 9091143) [Selectable (show checkbox)]
- Adjustment for baseline difference (ID = 9091144) [Not selectable (no checkbox)]

- Details (ID = 9091145) [Selectable (show checkbox)]
 - Not stated (ID = 9091146) [Selectable (show checkbox)]
 - Not applicable - no baseline difference (ID = 9126379) [Selectable (show checkbox)]
- iii) STUDY ARMS AND DURATION (ID = 9096756) [Not selectable (no checkbox)]
 - Enrollment start (mm/yy) (ID = 9096757) [Not selectable (no checkbox)]
 - Details (ID = 9096758) [Selectable (show checkbox)]
 - Not stated (ID = 9096759) [Selectable (show checkbox)]
 - Enrollment end (mm/yy) (ID = 9096760) [Not selectable (no checkbox)]
 - Details (ID = 9096761) [Selectable (show checkbox)]
 - Not stated (ID = 9096762) [Selectable (show checkbox)]
 - Comparison X vs Y (ID = 9097254) [Not selectable (no checkbox)]
 - Details (ID = 9097255) [Selectable (show checkbox)]
 - Not stated (ID = 9097256) [Selectable (show checkbox)]
 - ARM A (ID = 9097260) [Not selectable (no checkbox)]
 - Arm A Name (ID = 9097261) [Not selectable (no checkbox)]
 - Details (ID = 9097262) [Selectable (show checkbox)]
 - Not stated (ID = 9097263) [Selectable (show checkbox)]
 - Description (ID = 9097264) [Not selectable (no checkbox)]
 - Details (ID = 9097265) [Selectable (show checkbox)]
 - Not stated (ID = 9097266) [Selectable (show checkbox)]
 - Sample (ITT) (ID = 9097267) [Not selectable (no checkbox)]
 - Details (ID = 9097268) [Selectable (show checkbox)]
 - Not stated (ID = 9097269) [Selectable (show checkbox)]
 - Duration of intervention (ID = 9097270) [Not selectable (no checkbox)]
 - Details (ID = 9097271) [Selectable (show checkbox)]
 - Not stated (ID = 9097272) [Selectable (show checkbox)]
 - Loss to follow up (ID = 9097273) [Not selectable (no checkbox)]
 - Details (ID = 9097274) [Selectable (show checkbox)]
 - Not stated (ID = 9097275) [Selectable (show checkbox)]
 - ARM B (ID = 9097760) [Not selectable (no checkbox)]
 - Arm B Name (ID = 9097761) [Not selectable (no checkbox)]
 - Details (ID = 9097762) [Selectable (show checkbox)]
 - Not stated (ID = 9097763) [Selectable (show checkbox)]
 - Description (ID = 9097764) [Not selectable (no checkbox)]
 - Details (ID = 9097765) [Selectable (show checkbox)]
 - Not stated (ID = 9097766) [Selectable (show checkbox)]
 - Sample (ITT) (ID = 9097768) [Not selectable (no checkbox)]
 - Details (ID = 9097769) [Selectable (show checkbox)]
 - Not stated (ID = 9097770) [Selectable (show checkbox)]
 - Duration of intervention (ID = 9097771) [Not selectable (no checkbox)]
 - Details (ID = 9097772) [Selectable (show checkbox)]
 - Not stated (ID = 9097773) [Selectable (show checkbox)]

- Loss to follow up (ID = 9097774) [Not selectable (no checkbox)]
 - Details (ID = 9097775) [Selectable (show checkbox)]
 - Not stated (ID = 9097776) [Selectable (show checkbox)]
 - ARM C (ID = 9097777) [Not selectable (no checkbox)]
 - Arm C Name (ID = 9097778) [Not selectable (no checkbox)]
 - Details (ID = 9097779) [Selectable (show checkbox)]
 - Not stated (ID = 9097781) [Selectable (show checkbox)]
 - Description (ID = 9097782) [Selectable (show checkbox)]
 - Details (ID = 9097783) [Selectable (show checkbox)]
 - Not stated (ID = 9097784) [Selectable (show checkbox)]
 - Sample (ITT) (ID = 9097786) [Not selectable (no checkbox)]
 - Details (ID = 9097788) [Selectable (show checkbox)]
 - Not stated (ID = 9097790) [Selectable (show checkbox)]
 - Duration of intervention (ID = 9097791) [Not selectable (no checkbox)]
 - Details (ID = 9097792) [Selectable (show checkbox)]
 - Not stated (ID = 9097793) [Selectable (show checkbox)]
 - Loss to follow up (ID = 9097794) [Not selectable (no checkbox)]
 - Details (ID = 9097795) [Selectable (show checkbox)]
 - Not stated (ID = 9097796) [Selectable (show checkbox)]
- iv) ANALYSIS (ID = 9100649) [Not selectable (no checkbox)]
 - Outcome Measurement (ID = 9100650) [Not selectable (no checkbox)]
 - Description of analysis - add details (ID = 9100653) [Selectable (show checkbox)]
 - Type of analysis - select all that apply (ID = 9100652) [Not selectable (no checkbox)]
 - Descriptive statistics (e.g. means & SDs) (ID = 9236107) [Selectable (show checkbox)]
 - Variance - ANOVA (ID = 9236108) [Selectable (show checkbox)]
 - Partial eta squared (ID = 9236109) [Selectable (show checkbox)]
 - Cohen's d effect size (ID = 9236110) [Selectable (show checkbox)]
 - Repeated-measures linear regression procedures (ID = 9267711) [Selectable (show checkbox)]
 - Z scores (ID = 9267724) [Selectable (show checkbox)]
 - Analysis of covariance (ID = 9384457) [Selectable (show checkbox)]
 - ANCOVA (ID = 9412706) [Selectable (show checkbox)]
 - Hierarchical linear modeling (HLM) (ID = 9522167) [Selectable (show checkbox)]
 - MANCOVA (ID = 9649534) [Selectable (show checkbox)]
 - MANOVA (ID = 9720154) [Selectable (show checkbox)]
 - Multi-level regression (ID = 9729138) [Selectable (show checkbox)]

- t-tests (ID = 9732030) [Selectable (show checkbox)]
 - Mediator Measurement (1) (ID = 9100654) [Selectable (show checkbox)]
 - Type of analysis (ID = 9100655) [Selectable (show checkbox)]
 - Description of analysis (ID = 9100656) [Selectable (show checkbox)]
 - Moderator Measurement (1) (ID = 9100657) [Selectable (show checkbox)]
 - Type of analysis (ID = 9100658) [Selectable (show checkbox)]
 - Description of analysis (ID = 9100659) [Selectable (show checkbox)]
- v) EFFECTIVENESS OUTCOMES [Not selectable (no checkbox)] (Abridged extraction)
 - Mental Health outcome domain (ID = 9125775) [Not selectable (no checkbox)]
 - OUTCOME 1 [Not selectable (no checkbox)]
 - Outcome [Not selectable (no checkbox)]
 - Enter brief description [Selectable (show checkbox)]
 - Outcome tool [Not selectable (no checkbox)]
 - Outcome tool completed by [Not selectable (no checkbox)]
 - Child/young person [Selectable (show checkbox)]
 - Parent/carer [Selectable (show checkbox)]
 - Clinician [Selectable (show checkbox)]
 - Other (state) [Selectable (show checkbox)]
 - Direction check [Not selectable (no checkbox)]
 - Increase = positive [Selectable (show checkbox)]
 - Decrease = positive [Selectable (show checkbox)]
 - Baseline [Not selectable (no checkbox)]
 - Follow-up time [Not selectable (no checkbox)]
 - Wellbeing (ID = 9648809) [Not selectable (no checkbox)]
 - OUTCOME 1 [Not selectable (no checkbox)]
 - Outcome description [Not selectable (no checkbox)]
 - Enter brief description [Selectable (show checkbox)]
 - Outcome tool [Not selectable (no checkbox)]
 - Outcome tool completed by [Not selectable (no checkbox)]
 - Child/young person [Selectable (show checkbox)]
 - Parent/carer [Selectable (show checkbox)]
 - Clinician [Selectable (show checkbox)]
 - Other (state) [Selectable (show checkbox)]
 - Direction check [Not selectable (no checkbox)]

- Increase = positive [Selectable (show checkbox)]
 - Decrease = positive [Selectable (show checkbox)]
 - Baseline [Not selectable (no checkbox)]
 - Follow-up time 1 [Not selectable (no checkbox)]
 - Suicide and self harm outcome domain (ID = 9759265) [Not selectable (no checkbox)]
 - Self-harm [Not selectable (no checkbox)]
 - OUTCOME 1 [Not selectable (no checkbox)]
 - Outcome description [Not selectable (no checkbox)]
 - Enter brief description [Selectable (show checkbox)]
 - Outcome tool [Not selectable (no checkbox)]
 - Outcome tool completed by [Not selectable (no checkbox)]
 - Child/young person [Selectable (show checkbox)]
 - Parent/carer [Selectable (show checkbox)]
 - Clinician [Selectable (show checkbox)]
 - Other (state) [Selectable (show checkbox)]
 - Direction check [Not selectable (no checkbox)]
 - Increase = positive [Selectable (show checkbox)]
 - Decrease = positive [Selectable (show checkbox)]
 - Baseline [Not selectable (no checkbox)]
 - Follow-up time 1 [Not selectable (no checkbox)]
- vi) MEDIATORS (ID = 9100689) [Selectable (show checkbox)]
 - Name of Mediator (ID = 9100691) [Selectable (show checkbox)]
 - Time of mediator measurement (ID = 9100692) [Selectable (show checkbox)]
 - Outcome measurement (ID = 9100693) [Selectable (show checkbox)]
 - Time of outcome measurement (ID = 9100695) [Selectable (show checkbox)]
 - Mediation results (ID = 9100696) [Selectable (show checkbox)]
- vii) MODERATORS (ID = 9100698) [Not selectable (no checkbox)]
 - Name of moderator (ID = 9100699) [Selectable (show checkbox)]
 - Time of moderator measurement (ID = 9100700) [Selectable (show checkbox)]
 - Outcome measurement (ID = 9100701) [Selectable (show checkbox)]
 - Time of outcome measurement (ID = 9100702) [Selectable (show checkbox)]
 - Moderator results (ID = 9100703) [Selectable (show checkbox)]
- Include Review / Exclude Meta-Analysis (ID = 9769558) [Selectable (show checkbox)]

2. RCT Study Design Quality Appraisal Tool (1)

- Bias arising from the randomization process (ID = 8949084) [Selectable (show checkbox)]
 - Critical risk (ID = 8949085) [Selectable (show checkbox)]
 - Serious risk (ID = 8949086) [Selectable (show checkbox)]
 - Moderate risk (ID = 8949087) [Selectable (show checkbox)]
 - Low risk (ID = 8949088) [Selectable (show checkbox)]
 - No information (ID = 8949089) [Selectable (show checkbox)]
- Bias due to deviations from intended interventions (ID = 8949101) [Selectable (show checkbox)]
 - Critical risk (ID = 8949102) [Selectable (show checkbox)]
 - Serious risk (ID = 8949103) [Selectable (show checkbox)]
 - Moderate risk (ID = 8949107) [Selectable (show checkbox)]
 - Low risk (ID = 8949104) [Selectable (show checkbox)]
 - No information (ID = 8949105) [Selectable (show checkbox)]
- Bias due to missing outcome data (ID = 8949111) [Selectable (show checkbox)]
 - Critical risk (ID = 8949118) [Selectable (show checkbox)]
 - Serious risk (ID = 8949120) [Selectable (show checkbox)]
 - Moderate risk (ID = 8949121) [Selectable (show checkbox)]
 - Low risk (ID = 8949122) [Selectable (show checkbox)]
 - No information (ID = 8949123) [Selectable (show checkbox)]
- Bias in measurement of the outcome (ID = 8949594) [Selectable (show checkbox)]
 - Critical risk (ID = 8949596) [Selectable (show checkbox)]
 - Serious risk (ID = 8949597) [Selectable (show checkbox)]
 - Moderate risk (ID = 8949601) [Selectable (show checkbox)]
 - Low risk (ID = 8949600) [Selectable (show checkbox)]
 - No information (ID = 8949599) [Selectable (show checkbox)]
- Bias in selection of the reported result (ID = 8949608) [Selectable (show checkbox)]
 - Critical risk (ID = 8949610) [Selectable (show checkbox)]
 - Serious risk (ID = 8949611) [Selectable (show checkbox)]
 - Moderate risk (ID = 8949612) [Selectable (show checkbox)]
 - Low risk (ID = 8949613) [Selectable (show checkbox)]
 - No information (ID = 8949616) [Selectable (show checkbox)]

3. References

1. Higgins JP, Thomas J, Chandler J, Cumpston M, Li T, Page MJ, et al. Cochrane handbook for systematic reviews of interventions: John Wiley & Sons; 2019.