

Report Supplementary Material 5: Non-randomised Study Design Extraction and Quality Appraisal

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1. Non-randomised Study Design Data Extraction

- i) STUDY DESIGN (ID = 9975637) [Not selectable (no checkbox)]
 - Study design (ID = 9975638) [Not selectable (no checkbox)]
 - Quasi-experiment (ID = 9975666) [Selectable (show checkbox)]
 - Other study design (ID = 9975667) [Selectable (show checkbox)]
 - Step-wedge (ID = 10006124) [Selectable (show checkbox)]
 - Method of recruitment (ID = 9975639) [Not selectable (no checkbox)]
 - Describe - open text (ID = 9975677) [Selectable (show checkbox)]
 - Recruited by clinicians (ID = 9975688) [Selectable (show checkbox)]
 - Not stated (ID = 9975669) [Selectable (show checkbox)]
 - Total sample size (all groups) (ID = 9975646) [Not selectable (no checkbox)]
 - Not stated (ID = 9975659) [Selectable (show checkbox)]
 - Details (ID = 9975656) [Selectable (show checkbox)]
 - Power calculation included (ID = 9975647) [Not selectable (no checkbox)]
 - Yes (ID = 9975651) [Selectable (show checkbox)]
 - No (ID = 9975658) [Selectable (show checkbox)]
 - Not stated (ID = 9975663) [Selectable (show checkbox)]
 - If they include a power calculation, is the study sufficiently powered? (ID = 9975648) [Not selectable (no checkbox)]
 - Yes (ID = 9975664) [Selectable (show checkbox)]
 - No (ID = 9975660) [Selectable (show checkbox)]
 - Not stated (ID = 9975678) [Selectable (show checkbox)]
- ii) POPULATION (ID = 9975693) [Not selectable (no checkbox)]
 - Setting (ID = 9975694) [Not selectable (no checkbox)]
 - Not stated (ID = 9975720) [Selectable (show checkbox)]
 - Details (ID = 9975718) [Selectable (show checkbox)]
 - Residential setting (ID = 9975724) [Selectable (show checkbox)]
 - Foster care (ID = 9975730) [Selectable (show checkbox)]
 - Birth parents (ID = 9975726) [Selectable (show checkbox)]
 - Kinship care (ID = 9975727) [Selectable (show checkbox)]
 - Target population of intervention (ID = 9975695) [Selectable (show checkbox)]
 - Inclusion criteria (ID = 9975696) [Not selectable (no checkbox)]
 - Details (ID = 9975714) [Selectable (show checkbox)]
 - Not stated (ID = 9975719) [Selectable (show checkbox)]
 - Exclusion criteria (ID = 9975697) [Not selectable (no checkbox)]
 - Details (ID = 9975713) [Selectable (show checkbox)]
 - Not stated (ID = 9975715) [Selectable (show checkbox)]
 - Intervention participants (ID = 9975698) [Not selectable (no checkbox)]
 - Total participant sample (n) (ID = 9975716) [Not selectable (no checkbox)]
 - Details (ID = 9975740) [Selectable (show checkbox)]
 - Not stated (ID = 9975739) [Selectable (show checkbox)]
 - Age (ID = 9975717) [Not selectable (no checkbox)]
 - Mean age (ID = 9975737) [Selectable (show checkbox)]
 - SD age (ID = 9975733) [Selectable (show checkbox)]

- Min age (ID = 9975743) [Selectable (show checkbox)]
 - Max age (ID = 9975744) [Selectable (show checkbox)]
 - Gender % (ID = 9975704) [Not selectable (no checkbox)]
 - % female (ID = 9975735) [Selectable (show checkbox)]
 - % male (ID = 9975736) [Selectable (show checkbox)]
 - Not stated (ID = 9975738) [Selectable (show checkbox)]
 - Ethnicity % (ID = 9975705) [Not selectable (no checkbox)]
 - Not stated (ID = 9975732) [Selectable (show checkbox)]
 - Details (ID = 9975734) [Selectable (show checkbox)]
 - % White (ID = 9975747) [Selectable (show checkbox)]
 - % Mixed (ID = 9975756) [Selectable (show checkbox)]
 - % Hispanic/Latino (ID = 9975754) [Selectable (show checkbox)]
 - % Black (ID = 9975749) [Selectable (show checkbox)]
 - % Other (ID = 9975751) [Selectable (show checkbox)]
- Children and young people (if not intervention participant) (ID = 9975699) [Not selectable (no checkbox)]
 - Total child sample (n) (ID = 9975702) [Not selectable (no checkbox)]
 - Details (ID = 9975742) [Selectable (show checkbox)]
 - Not stated (ID = 9975723) [Selectable (show checkbox)]
 - Age (ID = 9975703) [Not selectable (no checkbox)]
 - Mean age (ID = 9975722) [Selectable (show checkbox)]
 - SD age (ID = 9975741) [Selectable (show checkbox)]
 - Min age (ID = 9975745) [Selectable (show checkbox)]
 - Max age (ID = 9975746) [Selectable (show checkbox)]
 - Gender % (ID = 9975710) [Not selectable (no checkbox)]
 - % female (ID = 9975721) [Selectable (show checkbox)]
 - % male (ID = 9975728) [Selectable (show checkbox)]
 - Not stated (ID = 9975729) [Selectable (show checkbox)]
 - Ethnicity % (ID = 9975711) [Not selectable (no checkbox)]
 - Details (ID = 9975725) [Selectable (show checkbox)]
 - % White (ID = 9975750) [Selectable (show checkbox)]
 - % Mixed (ID = 9975748) [Selectable (show checkbox)]
 - % Hispanic/Latino (ID = 9975752) [Selectable (show checkbox)]
 - % Black (ID = 9975753) [Selectable (show checkbox)]
 - % Other (ID = 9975755) [Selectable (show checkbox)]
 - Not stated (ID = 9975731) [Selectable (show checkbox)]
- Comparability of groups at baseline (if RCT) (ID = 9975700) [Not selectable (no checkbox)]
 - Details (ID = 9975708) [Selectable (show checkbox)]
 - Not stated (ID = 9975709) [Selectable (show checkbox)]
- Adjustment for baseline difference (ID = 9975701) [Not selectable (no checkbox)]
 - Details (ID = 9975707) [Selectable (show checkbox)]
 - Not stated (ID = 9975712) [Selectable (show checkbox)]

- Not applicable - no baseline difference (ID = 9975706) [Selectable (show checkbox)]
- iii) STUDY ARMS AND DURATION (ID = 9975760) [Not selectable (no checkbox)]
 - Enrollment start (mm/yy) (ID = 9975761) [Not selectable (no checkbox)]
 - Details (ID = 9975785) [Selectable (show checkbox)]
 - Not stated (ID = 9975779) [Selectable (show checkbox)]
 - Enrollment end (mm/yy) (ID = 9975762) [Not selectable (no checkbox)]
 - Details (ID = 9975778) [Selectable (show checkbox)]
 - Not stated (ID = 9975781) [Selectable (show checkbox)]
 - Comparison X vs Y (ID = 9975763) [Not selectable (no checkbox)]
 - Details (ID = 9975780) [Selectable (show checkbox)]
 - Not stated (ID = 9975783) [Selectable (show checkbox)]
 - ARM A (ID = 9975764) [Not selectable (no checkbox)]
 - Arm A Name (ID = 9975782) [Not selectable (no checkbox)]
 - Details (ID = 9975804) [Selectable (show checkbox)]
 - Not stated (ID = 9975805) [Selectable (show checkbox)]
 - Description (ID = 9975784) [Not selectable (no checkbox)]
 - Details (ID = 9975806) [Selectable (show checkbox)]
 - Not stated (ID = 9975808) [Selectable (show checkbox)]
 - Sample (ITT) (ID = 9975786) [Not selectable (no checkbox)]
 - Details (ID = 9975801) [Selectable (show checkbox)]
 - Not stated (ID = 9975807) [Selectable (show checkbox)]
 - Duration of intervention (ID = 9975767) [Not selectable (no checkbox)]
 - Details (ID = 9975800) [Selectable (show checkbox)]
 - Not stated (ID = 9975803) [Selectable (show checkbox)]
 - Loss to follow up (ID = 9975771) [Not selectable (no checkbox)]
 - Details (ID = 9975802) [Selectable (show checkbox)]
 - Not stated (ID = 9975815) [Selectable (show checkbox)]
 - ARM B (ID = 9975765) [Not selectable (no checkbox)]
 - Arm B Name (ID = 9975768) [Not selectable (no checkbox)]
 - Details (ID = 9975814) [Selectable (show checkbox)]
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 - Description (ID = 9975769) [Not selectable (no checkbox)]
 - Details (ID = 9975810) [Selectable (show checkbox)]
 - Not stated (ID = 9975816) [Selectable (show checkbox)]
 - Sample (ITT) (ID = 9975776) [Not selectable (no checkbox)]
 - Details (ID = 9975809) [Selectable (show checkbox)]
 - Not stated (ID = 9975811) [Selectable (show checkbox)]
 - Duration of intervention (ID = 9975773) [Not selectable (no checkbox)]
 - Details (ID = 9975812) [Selectable (show checkbox)]
 - Not stated (ID = 9975813) [Selectable (show checkbox)]
 - Loss to follow up (ID = 9975774) [Not selectable (no checkbox)]
 - Details (ID = 9975789) [Selectable (show checkbox)]
 - Not stated (ID = 9975790) [Selectable (show checkbox)]
 - ARM C (ID = 9975766) [Not selectable (no checkbox)]
 - Arm C Name (ID = 9975775) [Not selectable (no checkbox)]

- Details (ID = 9975788) [Selectable (show checkbox)]
 - Not stated (ID = 9975796) [Selectable (show checkbox)]
 - Description (ID = 9975777) [Selectable (show checkbox)]
 - Details (ID = 9975798) [Selectable (show checkbox)]
 - Not stated (ID = 9975793) [Selectable (show checkbox)]
 - Sample (ITT) (ID = 9975772) [Not selectable (no checkbox)]
 - Details (ID = 9975792) [Selectable (show checkbox)]
 - Not stated (ID = 9975795) [Selectable (show checkbox)]
 - Duration of intervention (ID = 9975770) [Not selectable (no checkbox)]
 - Details (ID = 9975791) [Selectable (show checkbox)]
 - Not stated (ID = 9975794) [Selectable (show checkbox)]
 - Loss to follow up (ID = 9975787) [Not selectable (no checkbox)]
 - Details (ID = 9975797) [Selectable (show checkbox)]
 - Not stated (ID = 9975799) [Selectable (show checkbox)]
- iv) ANALYSIS (ID = 9975821) [Not selectable (no checkbox)]
 - Outcome Measurement (ID = 9975822) [Not selectable (no checkbox)]
 - Description of analysis - add details (ID = 9975829) [Selectable (show checkbox)]
 - Type of analysis - select all that apply (ID = 9975830) [Not selectable (no checkbox)]
 - Descriptive statistics (e.g. means & SDs) (ID = 9975831) [Selectable (show checkbox)]
 - Variance - ANOVA (ID = 9975832) [Selectable (show checkbox)]
 - Partial eta squared (ID = 9975833) [Selectable (show checkbox)]
 - Cohen's d effect size (ID = 9975834) [Selectable (show checkbox)]
 - Repeated-measures linear regression procedures (ID = 9975835) [Selectable (show checkbox)]
 - Z scores (ID = 9975836) [Selectable (show checkbox)]
 - Analysis of covariance (ID = 9975837) [Selectable (show checkbox)]
 - ANCOVA (ID = 9975838) [Selectable (show checkbox)]
 - Hierarchical linear modeling (HLM) (ID = 9975839) [Selectable (show checkbox)]
 - MANCOVA (ID = 9975840) [Selectable (show checkbox)]
 - MANOVA (ID = 9975841) [Selectable (show checkbox)]
 - Multi-level regression (ID = 9975842) [Selectable (show checkbox)]
 - t-tests (ID = 9975843) [Selectable (show checkbox)]
 - Mixed/random effects (ID = 10006138) [Selectable (show checkbox)]
 - Mediator Measurement (1) (ID = 9975823) [Selectable (show checkbox)]
 - Type of analysis (ID = 9975826) [Selectable (show checkbox)]
 - Description of analysis (ID = 9975828) [Selectable (show checkbox)]
 - Moderator Measurement (1) (ID = 9975824) [Selectable (show checkbox)]
 - Type of analysis (ID = 9975827) [Selectable (show checkbox)]

- Description of analysis (ID = 9975825) [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 = 9983030) [Selectable (show checkbox)]
 - Name of Mediator (ID = 9983031) [Selectable (show checkbox)]
 - Time of mediator measurement (ID = 9983032) [Selectable (show checkbox)]
 - Outcome measurement (ID = 9983033) [Selectable (show checkbox)]
 - Time of outcome measurement (ID = 9983034) [Selectable (show checkbox)]
 - Mediation results (ID = 9983035) [Selectable (show checkbox)]
- vii) MODERATORS (ID = 9983043) [Not selectable (no checkbox)]
 - Name of moderator (ID = 9983044) [Selectable (show checkbox)]
 - Time of moderator measurement (ID = 9983045) [Selectable (show checkbox)]
 - Outcome measurement (ID = 9983046) [Selectable (show checkbox)]
 - Time of outcome measurement (ID = 9983047) [Selectable (show checkbox)]
 - Moderator results (ID = 9983048) [Selectable (show checkbox)]

2. Non-randomised Study Design Quality Appraisal Tool (1)

- Bias due to confounding (ID = 9848523) [Selectable (show checkbox)]
 - Low risk (ID = 9848530) [Selectable (show checkbox)]
 - Moderate risk (ID = 9848531) [Selectable (show checkbox)]
 - Serious risk (ID = 9848532) [Selectable (show checkbox)]
 - Critical risk (ID = 9848533) [Selectable (show checkbox)]
 - No information (ID = 10012755) [Selectable (show checkbox)]
- Bias in selection of participants into the study (ID = 9848524) [Selectable (show checkbox)]
 - Low risk (ID = 9848534) [Selectable (show checkbox)]
 - Moderate risk (ID = 9848535) [Selectable (show checkbox)]
 - Serious risk (ID = 9848536) [Selectable (show checkbox)]
 - Critical risk (ID = 9848537) [Selectable (show checkbox)]
 - No information (ID = 10012759) [Selectable (show checkbox)]
- Bias in classification of interventions (ID = 9848525) [Selectable (show checkbox)]
 - Low risk (ID = 9848538) [Selectable (show checkbox)]
 - Moderate risk (ID = 9848539) [Selectable (show checkbox)]
 - Serious risk (ID = 9848540) [Selectable (show checkbox)]
 - Critical risk (ID = 9848541) [Selectable (show checkbox)]
 - No information (ID = 10012760) [Selectable (show checkbox)]
- Bias due to deviations from intended interventions (ID = 9848526) [Selectable (show checkbox)]
 - Low risk (ID = 9848542) [Selectable (show checkbox)]
 - Moderate risk (ID = 9848543) [Selectable (show checkbox)]
 - Serious risk (ID = 9848544) [Selectable (show checkbox)]
 - Critical risk (ID = 9848545) [Selectable (show checkbox)]
 - No information (ID = 10012761) [Selectable (show checkbox)]
- Bias due to missing data (ID = 9848527) [Selectable (show checkbox)]
 - Low risk (ID = 9848546) [Selectable (show checkbox)]
 - Moderate risk (ID = 9848547) [Selectable (show checkbox)]
 - Serious risk (ID = 9848548) [Selectable (show checkbox)]
 - Critical risk (ID = 9848549) [Selectable (show checkbox)]
 - No information (ID = 10012762) [Selectable (show checkbox)]
- Bias in measurement of outcomes (ID = 9848528) [Selectable (show checkbox)]
 - Low risk (ID = 9848550) [Selectable (show checkbox)]
 - Moderate risk (ID = 9848551) [Selectable (show checkbox)]
 - Serious risk (ID = 9848552) [Selectable (show checkbox)]
 - Critical risk (ID = 9848553) [Selectable (show checkbox)]
 - No information (ID = 10012764) [Selectable (show checkbox)]
- Bias in selection of the reported result (ID = 9848529) [Selectable (show checkbox)]
 - Low risk (ID = 9848554) [Selectable (show checkbox)]
 - Moderate risk (ID = 9848555) [Selectable (show checkbox)]
 - Serious risk (ID = 9848556) [Selectable (show checkbox)]
 - Critical risk (ID = 9848557) [Selectable (show checkbox)]
 - No information (ID = 10012765) [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.