

# To Fill the Gap: A Systematic Literature Review of Group Play-Based Intervention to Address Anxiety in Young Children with Autism

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Appendix E

# Appendix E. ROBIS: Tool to assess the risk of bias in systematic reviews

### Phase 1: Assessing relevance (Optional)

ROBIS is designed to assess the risk of bias in reviews with questions relating to interventions, aetiology, diagnosis and prognosis. State your overview/guideline question (target question) and the question being addressed in the review being assessed:

#### Intervention reviews:

 Category
 Target question (e.g. overview or guideline)
 Review being assessed

 Patients/Population(s):
 Children with anxiety and comorbid autism (a) aged 4-6; (b) aged 2-12

 Intervention(s):
 Group play-based interventions

 Comparator(s):
 Outcome(s):

 Reducing anxiety in children

 Does the question addressed by the review match the target question?

 YES/NO/UNCLEAR

#### Phase 2: Identifying concerns with the review process

1.1 Did the review adhere to pre-defined objectives and eligibility criteria?

Concerns regarding methods used to identify and/or select studies

Rationale for concern:

#### **DOMAIN 1: STUDY ELIGIBILITY CRITERIA**

Describe the study eligibility criteria, any restrictions on eligibility and whether there was evidence that objectives and eligibility criteria were pre-specified:

Y/PY/PN/N/NI

LOW/HIGH/UNCLEAR

1.2 Were the eligibility criteria appropriate for the review question?	Y/PY/PN/N/NI
1.3 Were eligibility criteria unambiguous?	Y/PY/PN/N/NI
1.4 Were any restrictions in eligibility criteria based on study characteristics appropriate (e.g. date, sample size, study quality, outcomes measured)?	Y/PY/PN/N/NI
1.5 Were any restrictions in eligibility criteria based on sources of information appropriate (e.g. publication status or format, language, availability of data)?	Y/PY/PN/N/NI
Concerns regarding the specification of study eligibility criteria Rationale for concern:	LOW/HIGH/UNCLEAR
DOMAIN 2: IDENTIFICATION AND SELECTION OF STUDIES	
Describe methods of study identification and selection (e.g. number of reviewers involved): five reviewers were involved.	
2.1 Did the search include an appropriate range of databases/electronic sources for published and unpublished reports?	Y/PY/PN/N/NI
2.2 Were methods additional to database searching used to identify relevant reports?	Y/PY/PN/N/NI
2.3 Were the terms and structure of the search strategy likely to retrieve as many eligible studies as possible?	Y/PY/PN/N/NI
2.4 Were restrictions based on date, publication format, or language appropriate?	Y/PY/PN/N/NI
2.5 Were efforts made to minimise errors in selection of studies?	Y/PY/PN/N/NI

## **DOMAIN 3: DATA COLLECTION AND STUDY APPRAISAL** Describe methods of data collection, what data were extracted from studies or collected through other means, how risk of bias was assessed (e.g. number of reviewers involved) and the tool used to assess risk of bias: five reviewers were Y/PY/PN/N/NI 3.1 Were efforts made to minimise error in data collection? 3.2 Were sufficient study characteristics available for both review authors and readers to be Y/PY/PN/N/NI able to interpret the results? Y/PY/PN/N/NI 3.3 Were all relevant study results collected for use in the synthesis? Y/PY/PN/N/NI 3.4 Was risk of bias (or methodological quality) formally assessed using appropriate criteria? Y/PY/PN/N/NI 3.5 Were efforts made to minimise error in risk of bias assessment? LOW/HIGH/UNCLEAR Concerns regarding methods used to collect data and appraise studies Rationale for concern: **DOMAIN 4: SYNTHESIS AND FINDINGS** Describe synthesis methods: Y/PY/PN/N/NI 4.1 Did the synthesis include all studies that it should? Y/PY/PN/N/NI 4.2 Were all pre-defined analyses reported or departures explained? Y/PY/PN/N/NI 4.3 Was the synthesis appropriate given the nature and similarity in the research questions, study designs and outcomes across included studies? Y/PY/PN/N/NI 4.4 Was between-study variation (heterogeneity) minimal or addressed in the synthesis? 4.5 Were the findings robust, e.g. as demonstrated through funnel plot or sensitivity analyses? Y/PY/PN/N/NI Y/PY/PN/N/NI 4.6 Were biases in primary studies minimal or addressed in the synthesis? LOW/HIGH/UNCLEAR Concerns regarding the synthesis and findings Rationale for concern:

# Phase 3: Judging risk of bias

Summarize the concerns identified during the Phase 2 assessment:

Domain Concern Rationale for concern

- 1. Concerns regarding specification of study eligibility criteria
- 2. Concerns regarding methods used to identify and/or select studies
- 3. Concerns regarding methods used to collect data and appraise studies
- 4. Concerns regarding the synthesis and findings