Supplementary Table 1. A summary of Gough's weight of evidence results

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Reference |  | Criteria | | |
|  | A | B | C | D |
| Al-Taiar et al. [55] | High | High | Moderate | High |
| Bardgett et al. [67] | High | High | Low | Moderate |
| Barksdale and Backer [49] | Moderate | Moderate | High | Moderate |
| Causey-Upton and Howell [51] | High | High | High | High |
| Chan et al. [60] | High | Moderate | Moderate | Moderate |
| Chan et al. [66] | Moderate | Moderate | Moderate | Moderate |
| Damar et al. [72] | Moderate | High | Moderate | Moderate |
| Demierre et al. [59] | Moderate | Moderate | Moderate | Moderate |
| Engström et al. [52] | High | High | High | High |
| Goldsmith et al. [30] | High | High | High | High |
| Gooberman-Hill et al. [57] | High | Moderate | Moderate | Moderate |
| Hall et al. [58] | High | Moderate | Moderate | Moderate |
| Høvik et al. [65] | Moderate | Moderate | High | Moderate |
| Ingadottir et al. [27] | High | Moderate | High | High |
| Jacobson et al. [71] | High | High | High | High |
| Johnson et al. [70] | High | High | Moderate | High |
| Khatri et al. [53] | Moderate | High | Moderate | Moderate |
| Maillette et al. [61] | High | High | Low | Moderate |
| Marcinkowski et al. [68] | High | High | Moderate | High |
| McHugh and Luker [48] | High | High | Moderate | High |
| Nyvang et al. [56] | High | High | Low | Moderate |
| Perry et al. [29] | High | High | High | High |
| Sjøveian et al. [64] | High | High | High | High |
| Specht et al. [22] | High | High | High | High |
| Specht et al. [47] | High | High | High | High |
| Tung et al. [50] | High | High | Moderate | High |
| Webster et al. [32] | High | High | Moderate | High |
| Weinberg et al. [62] | High | Moderate | High | High |
| Westby and Backman [54] | High | Moderate | High | High |
| Williams et al. [69] | Moderate | Moderate | Moderate | Moderate |
| Woolhead et al. [63] | High | Moderate | Moderate | Moderate |

Gough's weight of evidence criteria: (A) a non-review specific assessment of coherence

and integrity; (B) assessment of the appropriateness of study design to answer the review

question; (C) the appropriateness of focus for research to answer the review question,

and; (D) an combined judgement of the overall weight of evidence based on assessments

of criteria A-C.

Supplementary Table 2. A summary of the CASP critical appraisal results

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Reference | Criteria | | | | | | | | | |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Al-Taiar et al. [55] | ✓ | ✓ | ✓ | ? | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Bardgett et al. [67] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Barksdale and Backer [49] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ? | X | ? | ✓ |
| Causey-Upton and Howell [51] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Damar et al. [72] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ? | ✓ | ✓ |
| Demierre et al. [59] | ✓ | ✓ | ✓ | ? | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Engström et al. [52] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Goldsmith et al. [30] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Gooberman-Hill et al. [57] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Hall et al. [58] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Høvik et al. [65] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ? | ✓ | ✓ | ✓ |
| Jacobson et al. [71] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Johnson et al. [70] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Khatri et al. [53] | ✓ | ✓ | ✓ | ? | ✓ | X | ✓ | X | ✓ | ✓ |
| Maillette et al. [61] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Marcinkowski et al. [68] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| McHugh and Luker [48] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Nyvang et al. [56] | ✓ | ✓ | ✓ | ✓ | ✓ | ? | ✓ | ✓ | ✓ | ✓ |
| Perry et al. [29] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Sjøveian et al. [64] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Specht et al. [22] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Specht et al. [47] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Tung et al. [50] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Webster et al. [32] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Westby and Backman [54] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |
| Williams et al. [69] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ? | ✓ | ✓ |
| Woolhead et al. [65] | ✓ | ✓ | ✓ | ✓ | ✓ | X | ✓ | ✓ | ✓ | ✓ |

CASP criteria: (1) Was there a clear statement of the aims of the research?; (2) Is a

qualitative methodology appropriate?; (3) Was the research design appropriate to

address the aims of the research?; (4) Was the recruitment strategy appropriate to the

aims of the research?; (5) Was the data collected in a way that addressed the research

issue?; (6) Has the relationship between researcher and participants been adequately

considered?; (7) Have ethical issues been taken into consideration?; (8) Was the data

analysis sufficiently rigorous?; (9) Is there a clear statement of the findings?; and

(10) How valuable is the research?

Key: **✓**: satisfied; **X**: not satisfied; **?**: unclear.

Supplementary Table 3. A summary of the JBI critical appraisal results

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Reference | Criteria | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Chan et al.[60] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Chan et al. [66] | ✓ | ✓ | ✓ | ✓ | X | X | ✓ | ✓ |
| Ingadottir et al. [27] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Weinberg et al. [62] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

JBI critical appraisal for cross sectional studies criteria: (1) Were the criteria for inclusion in the sample clearly

defined?; (2) Were the study subjects and the setting described in detail?; (3) Was the exposure measured in a

valid and reliable way?; (4) Were objective, standard criteria used for measurement of the condition?; (5) Were

confounding factors identified?; (6) Were strategies to deal with confounding factors stated?; (7) Were the

outcomes measured in a valid and reliable way?; (8) Was appropriate statistical analysis used?

Key: **✓**: satisfied; **X**: not satisfied.