**Additional file 3: JBI Critical Appraisal Checklist**

1. **Analytical Cross Sectional Studies**

Reviewer                                                   Date

Author                                                        Year                       Record Number

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Yes | No | Unclear | Not applicable |
| 1. Were the criteria for inclusion in the sample clearly defined?
 | □ | □ | □ | □ |
| 1. Were the study subjects and the setting described in detail?
 | □ | □ | □ | □ |
| 1. Was the exposure measured in a valid and reliable way?
 | □ | □ | □ | □ |
| 1. Were objective, standard criteria used for measurement of the condition?
 | □ | □ | □ | □ |
| 1. Were confounding factors identified?
 | □ | □ | □ | □ |
| 1. Were strategies to deal with confounding factors stated?
 | □ | □ | □ | □ |
| 1. Were the outcomes measured in a valid and reliable way?
 | □ | □ | □ | □ |
| 1. Was appropriate statistical analysis used?
 | □ | □ | □ | □ |

Overall appraisal:             Include   □       Exclude   □       Seek further info  □

Comments (Including reason for exclusion)

1. **Case Control Studies**

Reviewer                                                        Date

Author                                                           Year                       Record Number

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Yes | No | Unclear | Not applicable |
| 1. Were the groups comparable other than the presence of disease in cases or the absence of disease in controls?
 | □ | □ | □ | □ |
| 1. Were cases and controls matched appropriately?
 | □ | □ | □ | □ |
| 1. Were the same criteria used for identification of cases and controls?
 | □ | □ | □ | □ |
| 1. Was exposure measured in a standard, valid and reliable way?
 | □ | □ | □ | □ |
| 1. Was exposure measured in the same way for cases and controls?
 | □ | □ | □ | □ |
| 1. Were confounding factors identified?
 | □ | □ | □ | □ |
| 1. Were strategies to deal with confounding factors stated?
 | □ | □ | □ | □ |
| 1. Were outcomes assessed in a standard, valid and reliable way for cases and controls?
 | □ | □ | □ | □ |
| 1. Was the exposure period of interest long enough to be meaningful?
 | □ | □ | □ | □ |
| 1. Was appropriate statistical analysis used?
 | □ | □ | □ | □ |

Overall appraisal:             Include   □       Exclude   □       Seek further info  □

Comments (Including reason for exclusion)

1. **Cohort Studies**

Reviewer                                                   Date

Author                                                       Year                       Record Number

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Yes | No | Unclear | Not applicable |
| 1. Were the two groups similar and recruited from the same population?
 | □ | □ | □ | □ |
| 1. Were the exposures measured similarly to assign people to both exposed and unexposed groups?
 | □ | □ | □ | □ |
| 1. Was the exposure measured in a valid and reliable way?
 | □ | □ | □ | □ |
| 1. Were confounding factors identified?
 | □ | □ | □ | □ |
| 1. Were strategies to deal with confounding factors stated?
 | □ | □ | □ | □ |
| 1. Were the groups/participants free of the outcome at the start of the study (or at the moment of exposure)?
 | □ | □ | □ | □ |
| 1. Were the outcomes measured in a valid and reliable way?
 | □ | □ | □ | □ |
| 1. Was the follow up time reported and sufficient to be long enough for outcomes to occur?
 | □ | □ | □ | □ |
| 1. Was follow up complete, and if not, were the reasons to loss to follow up described and explored?
 | □ | □ | □ | □ |
| 1. Were strategies to address incomplete follow up utilized?
 | □ | □ | □ | □ |
| 1. Was appropriate statistical analysis used?
 | □ | □ | □ | □ |

Overall appraisal:             Include   □       Exclude   □       Seek further info  □

Comments (Including reason for exclusion)