Supplementary Material

# Supplementary Data

Table S1 - Assessment of methodological quality according to the checklist proposed by Joanna Briggs Institute for cross-sectional studies.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Auth orYears | 1.Criteria for inclusion in the sample? | 2. Study subjects and the setting described?  | 3.  Exposure measured in a valid and reliable way? | 4. Objective, standard criteria used for measurement of the condition | 5.Confounding factors identified? | 6. Strategies to deal with confounding factors stated? | 7. Outcomes measured in a valid and reliable way? | 8.Appropriate statistical analysis use? | Overall appraiasal |
| Vaz-Fragoso et al., 2009 | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | High |
| Ensrud et al., 2009 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | High |
| Moreno-Tomayo et al 2017 | Yes | Yes | Unclear | Yes | Unclear | Unclear | Yes | Yes | Moderate |
| Sun et al., 2020 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | High |
| Moreno-Tomayo et al., 2020 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | High |
| Shih et al., 2020 | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Yes | High |
| Alqatani et al.,2021 | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | High |
| Balomenos et al., 2021 | Not | Unclear | Yes | Yes | Yes | Yes | Yes | Yes | High |
| Moreno-Tomayob et al., 2021 | Yes | Yes | Yes | Yes | Unclear | Yes | Yes | Yes | High |
| Yu et al.,2022 | Yes | Unclear | Yes | Yes | Not | Unclear | Unclear | Unclear | Low |
| Fan et al., 2022 | Yes | Yes | Yes | Yes | Yes | Yes | Unclear | Unclear | High |
| Aditi et al 2023India | Yes | Yes | Yes | Yes | Unclear | Yes | Yes | Yes | High |
| Mizuno et al 2023Japan | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | High |

Table S2 - Assessment of methodological quality according to the checklist proposed by Joanna Briggs Institute for cohort studies.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | * Ensrud et al., 2012
 | * Nemoto et al 2020
 | * Moreno-Tomayoa et al., 2021
 | * Chen et al., 2022
 |
| 1-The two groups similar and recruited from the same population? | * Yes
 | * Yes
 | * Yes
 | * Yes
 |
| 2- The exposures measured similarly to assign people to both exposed and unexposed groups? | * Yes
 | * Yes
 | * Yes
 | * Yes
 |
| 3- Exposure was measured validly and reliably? | * Yes
 | * Yes
 | * Yes
 | * Yes
 |
| 4- Confounding factors were identified? | * Yes
 | * Yes
 | * Yes
 | * Unclear
 |
| 5- Strategies for dealing with confounding factors were stated? | * Yes
 | * Unclear
 | * Yes
 | * Yes
 |
| 6- Were the groups/participants free from the outcome at the beginning of the study (or at the time of exposure)? | * Yes
 | * Yes
 | * Yes
 | * Yes
 |
| 7- Results were measured validly and reliably? | * Yes
 | * Yes
 | * Yes
 | * Yes
 |
| 8- Follow-up time was reported to be long enough for results to occur? | * Unclear
 | * Yes
 | * Unclear
 | * Yes
 |
| 9- Follow-up was complete and, if not, reasons for loss to follow-up were described and explored? | * Yes
 | * Unclear
 | * Yes
 | * Yes
 |
| 10- Strategies were used to address incomplete follow-up? | * Yes
 | * Unclear
 | * Unclear
 | * Yes
 |
| 11- Strategies to address incomplete follow up utilized? | * Yes
 | * Unclear
 | * Yes
 | * Yes
 |
| Overall appraiasal | * High
 | * Moderate
 | * High
 | * High
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