

Table S1. Risk of bias summary for non-RCTs Non-randomized Study of Intervention (NRS): review authors' judgements about each risk of bias item for each included study.

| STUDY TYPE: NRS | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|----------|
| Author (Year) | Bias Due To Confounding (Other Factors Such As Osteoarthritis, Rheumatoid Arthritis, History Of Injury Of The Jaw, History Of Bruxism, Connective Tissue Disease, Previous Orthodontic Treatment) | Bias In Selection Of Participants Into Study | Bias In Classification Of Interventions | Bias Due To Deviations From Intended Intervention | Bias Due To Missing Data | Bias In Measurement Of Outcomes | Bias In Selection Of The Reported Result | Overall |
| 1. (Huggare and Raustia 1992) [14] | Critical No data regarding confounding variables. | SERIOUS No consecutive patients. No period of inclusion was stated. | LOW Treatment clearly stated. | LOW No co-interventions | Serious No follow-up period was stated. | Moderate Used Helkimo index. No masking strategy specified. | LOW Clinical and radiological assessment is well documented. | Critical |
| 2. (Moya et al. 1994) [17] | Critical No data regarding confounding variables. | SERIOUS No consecutive patients. No period of inclusion was stated. | LOW Treatment clearly stated. | LOW No co-interventions | LOW No missing data. | Moderate No masking strategy specified. | LOW Clinical and radiological assessment is well documented. | Critical |
| 3. (Santa nder et al. 2014) [21] | LOW All variables were clearly stated and investigated. | Moderate Patients included were not consecutive. It excludes male patients. No period of inclusion was stated. | LOW Treatment clearly stated. | LOW No co-interventions | LOW No missing data. | Moderate No masking strategy specified. | LOW Clinical and radiological assessment is well documented. | Moderate |
| 4. (Kang 2020a) [18] | LOW All variables were clearly stated and investigated. | LOW No bias in selection of participants. | LOW Treatment clearly stated. | LOW No co-interventions | LOW No losses of information across the study. | Moderate No masking strategy specified. Inter-investigator reliability was checked. | LOW Clinical and radiological assessment is well documented. | Moderate |
| 5. (Kang 2020b) [19] | Serious Inclusion of patients with osteoarthritis. | Low No bias in selection of participants. | LOW Treatment clearly stated. | LOW No co-interventions | Low No losses of information across the study. | Modetate No masking strategy specified. Inter-investigator | LOW Clinical and radiological assessment is well documented. | Serious |

| reliability was checked. | | | | | | | | | |
|--------------------------|------------------------|--|--|----------------------------------|----------------------------|---|--|---|----------|
| 6. | (Kim et al. 2020) [20] | LOW All variables were clearly stated and investigated. | LOW No bias in selection of participants. | LOW Treatment clearly stated. | LOW No co-interventions | LOW No losses of information across the study. | Moderate No masking strategy specified. | LOW Clinical and radiological assessment is well documented. | Moderate |