

**Supplementary Table 5.** Results of sensitivity analysis and publication bias

| Factor                  | Participant | I <sup>2</sup> (%) | Model | OR/MD (95% CI)           | OR/MD fluctuation | 95% CI fluctuation | Egger (P-value) | Begg (P-value) |
|-------------------------|-------------|--------------------|-------|--------------------------|-------------------|--------------------|-----------------|----------------|
| Age                     | 847         | 70                 | R     | 5.47 (2.44 to 8.51)      | 3.830 to 6.210    | 1.903 to 9.733     | 0.1189          | 0.1765         |
| Sex                     | 1,628       | 65                 | R     | 1.73 (1.16 to 2.57)      | 1.473 to 1.896    | 1.069 to 2.851     | 0.09023         | 0.1702         |
| BMI                     | 964         | 78                 | R     | 1.19 (0.33 to 2.05)      | 0.726 to 1.312    | 0.203 to 2.289     | 0.8758          | 0.3223         |
| MMI                     | 1,495       | 70                 | R     | 3.37 (2.07 to 5.48)      | 3.328 to 4.347    | 2.254 to 6.688     | 0.352           | 0.2429         |
| IIG                     | 885         | 95                 | R     | -0.52 (-0.88 to -0.15)   | -0.633 to 0.407   | -1.001 to 0.076    | 0.05706         | 0.3476         |
| Flexion-extension angle | 692         | 90                 | R     | -10.05 (-14.10 to -6.00) | -11.577 to -8.857 | -15.747 to -4.531  | 0.6893          | 0.6242         |
| HMD in neutral position | 733         | 0                  | F     | -0.23 (-0.35 to -0.12)   | -0.264 to -0.214  | -0.394 to -0.076   | 0.6414          | 0.6242         |
| HMD in full extension   | 675         | 83                 | R     | -0.46 (-0.70 to -0.22)   | -0.568 to -0.373  | -0.772 to -0.085   | 0.8322          | 0.3272         |
| TMD in neutral position | 945         | 87                 | R     | -0.54 (-0.91 to -0.17)   | -0.633 to -0.391  | -1.019 to -0.077   | 0.8145          | 0.6523         |
| TMD in full extension   | 770         | 68                 | R     | -1.09 (-1.32 to -0.86)   | -1.164 to -1.031  | -1.452 to -0.782   | 0.2748          | 0.5730         |
| SMD in full extension   | 770         | 47                 | F     | -1.85 (-2.05 to -1.65)   | -1.923 to -1.612  | -2.135 to -1.151   | 0.07428         | 0.1885         |
| Neck circumference      | 1,097       | 73                 | R     | 2.50 (1.56 to 3.44)      | 2.204 to 2.866    | 1.228 to 3.696     | 0.5213          | 0.4579         |

OR, odds ratio; MD, mean difference; CI, confidence interval; BMI, body mass index; MMI, modified Mallampati index; IIG, inter-incisor gap; HMD, hyomental distance; TMD, thyromental distance; SMD, sternomental distance.