A

| Study or Subgroup | Kinematic Alignment | Mechanical Alignment | Mean Difference |
|-------------------|---------------------|----------------------|-----------------|
|                   | Mean | SD | Total | Mean | SD | Total | Weight | IV, Fixed, 95% CI |                  |
| Dossett 2012      | -2.1 | 2.1 | 41    | 0    | 2.4 | 41    | 35.0%  | -2.10 [-3.08, -1.12] |
| Dossett 2014      | -2   | 2   | 44    | -0.1 | 2.7 | 44    | 33.9%  | -1.90 [-2.89, -0.91] |
| Matsumoto 2017    | 0.9  | 2.3 | 30    | 4.3  | 1.9 | 30    | 0.0%   | -3.40 [-4.47, -2.33] |
| McEwen 2020       | -0.9 | 2.6 | 40    | 0.8  | 2.1 | 40    | 31.1%  | -1.70 [-2.74, -0.66] |

Total (95% CI) 125 125 100.0% -1.91 [-2.49, -1.33]

Heterogeneity: Chi² = 0.30, df = 2 (P = 0.86); I² = 0%
Test for overall effect: Z = 6.47 (P < 0.00001)

B

| Study or Subgroup | Kinematic Alignment | Mechanical Alignment | Mean Difference |
|-------------------|---------------------|----------------------|-----------------|
|                   | Mean | SD | Total | Mean | SD | Total | Weight | IV, Fixed, 95% CI |                  |
| Calliess 2016     | 5    | 3   | 100   | 5    | 2  | 100   | 44.6%  | 0.00 [-0.71, 0.71] |
| Dossett 2012      | 9.8  | 6   | 41    | 4.6  | 4.5 | 41    | 0.0%   | 5.20 [2.90, 7.50]  |
| Kaneda 2021       | 1.89 | 1   | 8     | 2.06 | 1.3 | 4     | 12.5%  | -0.17 [-1.50, 1.16] |
| McEwen 2020       | 3.4  | 2.2 | 41    | 3    | 2.2 | 41    | 24.6%  | 0.40 [-0.55, 1.35]  |
| Yeo 2018          | 3.8  | 2.7 | 30    | 3    | 1.5 | 30    | 18.2%  | 0.80 [-0.31, 1.91]  |

Total (95% CI) 179 176 100.0% 0.22 [-0.25, 0.70]

Heterogeneity: Chi² = 1.90, df = 3 (P = 0.59); I² = 0%
Test for overall effect: Z = 0.93 (P = 0.35)

C

| Study or Subgroup | Kinematic Alignment | Mechanical Alignment | Mean Difference |
|-------------------|---------------------|----------------------|-----------------|
|                   | Mean | SD | Total | Mean | SD | Total | Weight | IV, Fixed, 95% CI |                  |
| Calliess 2016     | 4    | 3.4 | 100   | 4    | 2  | 100   | 36.0%  | 0.00 [-0.77, 0.77] |
| Dossett 2012      | 5    | 5.4 | 41    | 3    | 4.7 | 41    | 4.5%   | 2.00 [-0.19, 4.19] |
| Kaneda 2021       | 3    | 1.5 | 8     | 3.4  | 2  | 5     | 5.2%   | -0.40 [-2.44, 1.64] |
| McEwen 2020       | 3.1  | 1.8 | 41    | 3.2  | 1.8 | 41    | 35.4%  | -0.10 [-0.88, 0.68] |
| Yeo 2018          | 6.4  | 1   | 30    | 7.5  | 2.8 | 30    | 19.0%  | -1.10 [-2.16, -0.04] |
| Young 2016        | 4    | 2.5 | 49    | 1.3  | 2  | 50    | 0.0%   | 2.70 [1.81, 3.59]  |

Total (95% CI) 220 217 100.0% -0.18 [-0.64, 0.29]

Heterogeneity: Chi² = 6.97, df = 4 (P = 0.14); I² = 43%
Test for overall effect: Z = 0.74 (P = 0.46)