|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Reference** | **Wearable** | **Error** |
|  |  | *Min.* | *Max.* | *Min.* | *Max.* | *Accuracy* | *Precision* | *Correlation* |
| Left Knee | Flexion, deg | 36.3 (5.6) | 74.7 (8.4) | 33.9 (6.5) | 77.1 (12.2) | -0.1 (7.4) | 3.4 (1.4) | 0.955 (0.043) |
|  | Abduction, deg | -11.6 (4.1) | 2.3 (2.9) | -11.5 (6.3) | 11.9 (4.9) | 4.2 (5.5) | 3.6 (0.9) | 0.919 (0.094) |
|  | Rotation, deg | -9.4 (3.7) | 10.2 (3.4) | -11.4 (4.4) | 11.2 (4.8) | 0.0 (4.4) | 3.8 (1.2) | 0.781 (0.172) |
| Right Knee | Flexion, deg | 36.3 (5.7) | 71.1(6.8) | 32.4(6.4) | 76.9(9.6) | -1.3(8.0) | 4.1(2.7) | 0.926(0.131) |
|  | Abduction, deg | -10.8(2.8) | 2.9(2.5) | -10.6(6.5) | 13.0(4.0) | 4.8(3.7) | 3.8(1.2) | 0.922(0.085) |
|  | Rotation, deg | -8.6(3.7) | 8.1(4.9) | -9.8(6.2) | 10.8(5.8) | 0.8(5.7) | 3.4(1.2) | 0.796(0.154) |
| Left Hip | Flexion, deg | -67.2 (11.0) | -24.8 (7.9) | -82.7 (10.5) | -32.6 (8.8) | -10.7 (4.3) | 3.6 (1.3) | 0.974 (0.016) |
|  | Abduction, deg | -10.5 (5.6) | 16.5 (6.2) | -14.7 (5.7) | 14.0 (7.6) | -3.3 (4.1) | 3.1 (1.4) | 0.896 (0.135) |
|  | Rotation, deg | -30.5 (5.9) | 23.6 (5.7) | -24.0 (5.4) | 21.1 (7.0) | 0.5 (4.8) | 4.9 (1.5) | 0.977 (0.013) |
| Right Hip | Flexion, deg | -68.1(10.5) | -25.8(8.1) | -83.1(9.6) | -31.0(8.4) | -9.1(4.9) | 4.1(1.2) | 0.966(0.026) |
|  | Abduction, deg | -11.6(4.3) | 15.5(7.1) | -13.1(5.4) | 14.6(8.1) | -1.4(3.5) | 3.2(1.4) | 0.882(0.173) |
|  | Rotation, deg | -22.4(5.5) | 31.7(4.9) | -20.7(8.5) | 22.9(5.1) | -2.8(3.6) | 5.2(2.1) | 0.980(0.011) |
| Trunk *(lower trunk-sternum)* | Flexion, deg | 3.7 (5.6) | 16.6 (5.6) | 5.8 (5.5) | 16.6 (4.9) | 1.1 (6.4) | 2.2 (0.9) | 0.711 (0.208) |
| Abduction, deg | -6.3 (3.2) | 6.3 (3.8) | -8.7 (3.7) | 8.5 (3.6) | 0.1 (3.6) | 2.6 (0.9) | 0.790 (0.199) |
| Rotation, deg | -6.7 (4.4) | 7.0 (3.5) | -10.2 (7.0) | 9.4 (4.0) | -0.6 (2.5) | 3.6 (1.5) | 0.669 (0.309) |
| Trunk *(lower trunk – upper trunk)* | Flexion, deg | 3.7(5.6) | 16.6(5.6) | 6.6(6.2) | 17.9(5.9) | 2.4(6.0) | 2.0(0.8) | 0.754(0.164) |
| Abduction, deg | -6.3(3.2) | 6.3(3.8) | -8.7(4.1) | 8.5(4.3) | 0.1(3.7) | 2.7(1.0) | 0.762(0.254) |
| Rotation, deg | -6.7(4.4) | 7.0(3.5) | -10.4(6.5) | 11.4(4.0) | 0.3(4.0) | 4.2(1.4) | 0.635(0.369) |

Reference and wearable minimum and maximum angles and accuracy (error mean), precision (error standard deviation), and correlation. Values are given as mean (standard deviation) of all trials.