Table 3: Spatial-Temporal gait parameters and reliability of WalkMeter in healthy individuals and people post stroke.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | Test | Healthy Volunteers (N=40) | | | | People with Stroke (N=47) | | | | | | | |
| Rater 1 | | | | Rater 1 | | | | Rater 2 | | | |
| Mean (SD) | r value | SEM | p value | Mean (SD) | r value | SEM | p value | Mean (SD) | r value | SEM | p value |
| SSTD/ SSTH (seconds) | 1  2 | 0.34 (0.08) 0.32 (0.12) | 0.987  (0.97-0.98) | 0.02 | <0.001 | 0.35 (0.10)  0.36 (0.09) | 0.953  (0.91-0.97) | 0.04 | <0.001 | 0.35 (0.10)  0.36 (0.09) | 0.976  (0.95-0.98) | 0.02 | <0.001 |
| \*r value: 0.866 (0.78-0.92); SEM: 0.05^ | | | | | | | |
| SSTND/ SSTNH (seconds) | 1  2 | 0.33 (0.11) 0.34 (0.11) | 0.976  (0.97-0.98) | 0.02 | <0.001 | 0.5 (0.13)  0.51 (0.12) | 0.969  (0.94-0.98) | 0.02 | <0.001 | 0.52 (0.13)  0.53 (0.14) | 0.873 (0.77-0.93) | 0.05 | <0.001 |
| \*r value: 0.928 (0.87-0.96); SEM: 0.04^ | | | | | | | |
| DSTN/DSTH (seconds) | 1  2 | 0.14 (0.04)  0.15 (0.08) | 0.978 (0.97-0.98) | 0.01 | <0.001 | 0.5 (0.35)  0.49 (0.36) | 0.998  (0.98-0.99) | 0.05 | <0.001 | 0.51 (0.32)  0.52 (0.28) | 0.990 (0.98-0.99) | 0.03 | <0.001 |
| \*r value: 0.992 (0.98-0.99); SEM: 0.03^ | | | | | | | |
| SLD /SLH  (centimeter) | 1  2 | 52.4 (7.2)  52.9 (7.6) | 0.988  (0.98-0.99) | 1.04 | <0.001 | 29.3 (10.9)  30 (11.01) | 0.975  (0.95-0.98) | 1.54 | <0.001 | 28.70 (13)  29.1(12.5) | 0.978 (0.95-0.98) | 1.54 | <0.001 |
| \*r value: 0.986 (0.97-0.99); SEM: 1.68^ | | | | | | | |
| SLND/SLNH (centimeter) | 1  2 | 53.4 (7.1)  53.2 (7.3) | 0.995 (0.98-0.99) | 1.01 | <0.001 | 27.72 (13.5)  27.7 (13.2) | 0.991  (0.98-0.99) | 1.32 | <0.001 | 26.9 (12.8)  27.6 (12.7) | 0.978 (0.95-0.98) | 1.75 | <0.001 |
|  |  |  |  |  |  | \*r value: 0.984 (0.96-0.98); SEM: 1.68^ | | | | | | | |
| StLD/ StLH (centimeter) | 1  2 | 105.7 (12.8)  104.9 (12.5) | 0.987 (0.97-0.99) | 2.12 | <0.001 | 56.6 (18.6)  56.7 (18.7) | 0.997  (0.98-0.99) | 1.87 | <0.001 | 55.8 (19.2)  56.4 (19.4) | 0.984 (0.98-0.99) | 2.16 | <0.001 |
|  |  |  |  |  |  | \*r value: 0.992 (0.98-0.99); SEM: 1.20^ | | | | | | | |
| StLND/StLNH (centimeter) | 1  2 | 105.6 (12.6)  105.2 (12.3) | 0.991 (0.98-0.99) | 1.72 | <0.001 | 57.9 (20.3)  57.1 (20.4) | 0.997  (0.98-0.99) | 2.04 | <0.001 | 57.2 (20.6)  57.6 (20.2) | 0.994  (0.98-0.99) | 1.55 | <0.001 |
|  |  |  |  |  |  | \*r value: 0.995 (0.98-0.99); SEM: 1.11^ | | | | | | | |
| Speed (meter/second) | 1  2 | 1.12 (0.93)  1.17 (0.89) | 1 | 0 | <0.001 | 0.34 (0.20)  0.33 (0.21) | 0.996 (0.98-0.99) | 0.01 | <0.001 | 0.36 (0.24)  0.35 (0.20) | 0.996 (0.98-0.99) | 0.01 | <0.001 |
|  |  |  |  |  |  | \*r value: 0.976 (0.95-0.98); SEM: 1.64^ | | | | | | | |
| Cadence (steps/minute) | 1  2 | 118.4 (13.2)  118.1(13.5) | 1 | 0 | <0.001 | 73.9 (21.4)  73.9 (21.4) | 1 | 0 | <0.001 | 74.3 (21.7)  73.8 (21.4) | 0.994 (0.98-0.99) | 1.62 | <0.001 |
|  |  |  |  |  |  | \*r value: 0.996 (0.98-0.99); SEM: 1.26^ | | | | | | | |

*\*Inter-rater reliability;^ p value<0.001; ICC=interclass Correlation Coefficient; SEM=Standard Error of Measurement; p value<0.05statistically significant; SSTD-single support time dominant leg; SSTH-single support time hemi leg; SSTND-single support time non-dominant leg; SSTNH- single support time non-hemi leg; DSTN- double support time (normal); DSTH- double support time (hemi); SLD- step leg dominant leg; SLH- step length hemi leg; SLNH- step length non-hemi leg; SLND- step length non-dominant leg; StLD-stride length dominant leg; StLH-stride length hemi leg; StLND-stride length non-dominant leg ; StLNH- stride length non-hemileg*