**Interlimb coordination performance in seated position in persons with Multiple Sclerosis: reduced amplitude over six minutes and higher coordination variability in persons with walking fatigability**

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**Supplementary Table 1.** Interlimb coordination outcomes (mean±standard deviation) per group (HC-WF-NWF) by time (minute 1-6).

|  |  |  |
| --- | --- | --- |
| **Outcome**  | **Minute**  | **Group** |
| **WF (n=13)** | **NWF (n=22)** | **HC (n=13)** |
| **Absolute error (ABS)** $φ$ | 1 | 7.49±5.44 | 6.07±5.32 | 5.35 ±5.66 |
| 2 | 7.94±4.84 | 7.52±6.02 | 5.30±6.32 |
| 3 | 8.64±5.21 | 7.29±6.29 | 6.25±5.19 |
| 4 | 9.83±9.67 | 6.93±5.42 | 4.55±4.34 |
| 5 | 10.23±9.30 | 7.26±5.11 | 4.95±3.97 |
| 6 | 10.44±9.01 | 7.36±6.24 | 4.89±4.80 |
| **Coefficient of variation (CV)** $φ$ | 1 | 8.68±5.57 | 7.70±6.89 | 5.27±1.49 |
| 2 | **6.07±2.32\*T2-5;2-6** | **6.93±5.38\*T2-5;2-6** | **4.78±2.27\*T2-5;2-6** |
| 3 | 7.93±3.54 | 7.57±6.68 | 5.46±2.40 |
| 4 | 8.08±4.17 | 8.13±8.04 | 4.83±1.27 |
| 5 | **9.71±6.09\*T2-5** | **8.35±9.70\*T2-5** | **5.15±1.75\*T2-5;2-6** |
| 6 | **11.00±8.80\*T2-6** | **7.93±6.57\*T2-6** | **4.81±1.44\*T2-6** |
| **PCI** | 1 | 16.18±9.42 | 13.78±10.47 | 10.61±5.92 |
|  | 2 | 14.01±5.83 | 14.45±9.21 | 10.08±5.57 |
| 3 | 16.57±7.55 | 14.87±11.29 | 11.70±5.57 |
| 4 | 17.91±12.81 | 15.06±10.18 | 9.38±4.57 |
| 5 | 19.95±13.98 | 15.61±10.68 | 10.10±4.15 |
| 6 | 21.44±13.47 | 15.29±10.32 | 9.70±4.96 |

*Abbreviations: WF: persons with multiple sclerosis showing walking fatigability; NWF: persons with multiple sclerosis without walking fatigability; HC: Healthy controls; n: number of participants; PCI: Phase coordination index*

*Bold: significant effect p≤0,05, \*T: significant* *main effect of time (post hoc Tukey HSD)*

**Supplementary Table 2.** Spatiotemporal coordination outcomes (mean±standard deviation) per group (HC-WF-NWF) by time (minute 1-6).

|  |  |  |  |
| --- | --- | --- | --- |
| **Outcome** | **WF (n=13)** | **NWF (n=22)** | **HC (n=13)** |
| **Movement amplitude**  | Minute 1 | **65.85±21.18 G\*T1-5;1-6** | 76.08±18.97 | 73.67±22.02 |
| Minute 2 | 63.45±21.88 | 75.34±20.26 | 77.76±25.26 |
| Minute 3 | 61.94±21.14 | 74.96±21.51 | 77.91±26.54 |
| Minute 4 | 60.49±21.41 | 74.95±21.45 | 78.97±25.98 |
| Minute 5 | **58.33±21.26 G\*T1-5** | 75.03±23.71 | 78.71±25.34 |
| Minute 6 | **57.50±21.50 G\*T1-6** | 74.02±23.01 | 79.43±25.28 |
| **Movement frequency** | Minute 1 | 72.57±15.93 | 71.31±12.23 | 82.19±25.51 |
| Minute 2 | 73.96±15.70 | 72.56±12.46 | 81.01±23.30 |
| Minute 3 | 72.32±15.00 | 72.44±12.27 | 80.77±22.88 |
| Minute 4 | 71.67±16.06 | 72.48±12.91 | 81.55±22.29 |
| Minute 5 | 71.06±16.43 | 72.84±13.33 | 81.75±21.48 |
| Minute 6 | 72.09±17.43 | 72.06±12.89 | 81.95±21.41 |

*Abbreviations: WF: persons with multiple sclerosis showing walking fatigability; NWF: persons with multiple sclerosis without walking fatigability; HC: Healthy controls; n: number*

*of participants*

*Bold: significant effect p≤0,05, G\*T: multiple comparison for group\*time (post hoc Tukey HSD)*