**Table 1. Median values of the kinetic system characteristics for the dominant arm (Me [Q1; Q3])**

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| --- | --- | --- | --- |
| **The parameter of coordinator function to be assessed** | **MS patients (N = 42)** | **Healthy controls (N = 31)** | **P value** |
| Movement time, ms | 1.054 [0.903; 1.227] | 0.846 [0.768; 0.901] | < 0.001 |
| Output performance, bit/s | 3.976 [3.400; 4.407] | 4.784 [4.516; 5.216] | < 0.001 |
| Repeated entrance to the aim, n | 0.256 [0.045; 0.374] | 0.131 [0.000; 0.237] | 0.012 |
| Crossing the axis of the task, n | 2.062 [1.840; 2.215] | 1.929 [1.774; 2.085] | 0.036 |
| Parallel changes in the movement direction, n | 5.682 [4.652; 6.611] | 3.927 [2.971; 4.669] | < 0.001 |
| Perpendicular changes in the movement direction, n | 1.499 [0.876; 1.949] | 0.747 [0.416; 0.923] | < 0.001 |
| Variability of the movement, pixels | 0.055 [0.049; 0.060] | 0.049 [0.045; 0.052] | < 0.001 |
| Mean movement rate, pixel/ms | 1.294 [1.134; 1.411] | 1.473 [1.413; 1.570] | < 0.001 |
| Rate picks, n | 61.283 [56.729; 64.833] | 57.018 [54.631; 59.245] | 0.003 |

MS, multiple sclerosis; n, number of episodes per test run

**Table 2. Median values of the kinetic system characteristics for the non-dominant arm (Me [Q1; Q3])**

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| **The parameter of coordinator function to be assessed** | **MS patients (N = 42)** | **Healthy controls (N = 31)** | **P value** |
| Movement time, ms | 1.708 [1.384; 1.921] | 1.347 [1.190; 1.424] | < 0.001 |
| Output performance, bit/s | 2.544 [2.161; 2.953] | 3.051 [2.776; 3.358] | < 0.001 |
| Crossing the axis of the task, n | 2.174 [1.845; 2.362] | 1.909 [1.705; 2.065] | 0.008 |
| Parallel changes in the movement direction, n | 9.452 [7.399; 11.511] | 7.398 [5.872; 8.174] | 0.001 |
| Perpendicular changes in the movement direction, n | 5.035 [3.106; 6.361] | 3.010 [1.887; 3.913] | < 0.001 |
| Variability of the movement, pixels | 0.106 [0.081; 0.119] | 0.084 [0.064; 0.092] | 0.004 |
| Movement error, pixels | 0.090 [0.073; 0,100] | 0.078 [0.065; 0.088] | 0.019 |

MS, multiple sclerosis; n, number of episodes per test run