**Explanation of Data Files**

The files “Dom\_Output.mat” and “ND\_Output.mat” contain activity counts for each of the 8 tasks performed in the manuscript. Because 30Hz data was downsampled from 30Hz to 1Hz by ActiLife 6 proprietary software, the data reflects one-second samples. The file “Dom\_Output.mat” contains data for the dominant upper extremity, and the file “ND\_Output.mat” contains data for the nondominant upper extremity.

Each file contains a cell array with 74 rows and 8 columns. Each row represents one participant. Each column represents one task. Individual cells contain samples of one-second data for a given task and a given participant. Stated another way, each cell contains a matrix of activity counts for each second of activity.

The table below identifies which task corresponds to which column:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Column 1** | **Column 2** | **Column 3** | **Column 4** | **Column 5** | **Column 6** | **Column 7** | **Column 8** |
| Shoes | Grooming | Boxes | Cutting | Towels | Sorting | Typing | Writing |

As indicated in the manuscript, typing and sorting tasks were completed bilaterally by some participants, and unilaterally by other participants. The table below identifies which participants completed the tasks unilaterally versus bilaterally:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Bilateral Sorting** | **Unilateral Sorting** | | **Bilateral Typing** | | **Unilateral Typing** | |
| 1 | 20 | 1 | | 2 | |
| 2 | 26 | 3 | | 27 | |
| 3 | 27 | 4 | | 37 | |
| 4 | 29 | 5 | | 45 | |
| 5 | 32 | 6 | | 49 | |
| 6 | 33 | 7 | | 59 | |
| 7 | 34 | 9 | | 63 | |
| 8 | 36 | 10 | | 65 | |
| 9 | 37 | 11 | | 69 | |
| 10 | 38 | 12 | |  | |
| 11 | 39 | 13 | |  | |
| 12 | 41 | 14 | |  | |
| 13 | 42 | 15 | |  | |
| 14 | 43 | 16 | |  | |
| 15 | 45 | 17 | |  | |
| 16 | 49 | 18 | |  | |
| 17 | 50 | 19 | |  | |
| 18 | 51 | 20 | |  | |
| 19 | 52 | 21 | |  | |
| 21 | 53 | 22 | |  | |
| 22 | 54 | 23 | |  | |
| 23 | 55 | 25 | |  | |
| 24 | 57 | 26 | |  | |
| 25 | 58 | 28 | |  | |
| 28 | 59 | 30 | |  | |
| 30 | 60 | 31 | |  | |
| 31 | 62 | 34 | |  | |
| 35 | 63 | 35 | |  | |
| 40 | 64 | 36 | |  | |
| 44 | 65 | 38 | |  | |
| 46 | 66 | 39 | |  | |
| 47 | 67 | 40 | |  | |
| 48 | 69 | 41 | |  | |
| 56 | 70 | 42 | |  | |
| 61 | 71 | 43 | |  | |
| 68 | 72 | 44 | |  | |
|  | 73 | 46 | |  | |
|  | 74 | 47 | |  | |
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