

## ReadMe file for accelerometry data set from neurologically-intact adults

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These accelerometry data were collected in 2012 from community-dwelling adults between the ages of 40-80. The adults were specifically recruited to match the age, racial, ethnic, and other demographic profiles of a sample of adults with stroke.

Details of the sample and data collection procedures can be found in:

- Bailey RR, Lang CE (2013) Upper extremity activity in adults: Referent values using accelerometry. *Journal of Rehabilitation Research and Development*, 50:1213-1222.
- Bailey RR, Klaesner JW, Lang CE (2014) An Accelerometry-Based Methodology for Assessment of Real-World Bilateral Upper Extremity Activity. *PLOS One*, 9(7): e103135. doi:10.1371/journal.pone.0103135.

These papers should be cited in any cases of presentation or publication with the data.

The excel file, *ControlData\_DemographicsForDataShare\_20210506.xlsx*, contains the Case numbers and relevant demographics for the participants. Note there is no Case 24. Codes in the demographic file are as follows:

Sex: 0 = male, 1 = female

DominantHand: 0 = right, 1 = left

Race: 0 = Caucasian, 1 = Black or African-American

Ethnicity: 0 = non-Hispanic/non-Latinx, 1 = Hispanic/Latinx

Employment: 0 = not working for paid employment, 1 = working < 20 hrs/wk, 2 = working 20-35 hrs/wk, 4 = working full time

Co-habitation: 0 = lives alone, 1 = lives with others

PAS\_A: Physical Activity Scale, A is self-reported time "sleeping or resting", in hrs.

PAS\_B: Physical Activity Scale, B is self-reported time engaged in quiet activities such as "sitting quietly, watching television, listening to music, reading", in hrs.

PAS\_C: Physical Activity Scale, C is self-reported time engaged in quiet but purposeful upper limb activities such as "working at a computer or desk, sitting in a meeting, eating", in hours

ReportedHrsSedentaryActivity: PAS\_A + PAS\_B

Each participant wore Actigraph GTX3 accelerometers on both wrists and both ankles for 25 hrs. During the first hour of the recording, each participant completed 10 video-taped tasks in the laboratory for two minutes each, with a rest period between tasks. We are unable to publically share the video data because of healthcare privacy rules. The order of the tasks for each participant is included in the columns in the last half of the demographics file. A description of the tasks is available in Bailey et al. 2014. The remaining 24 hours recorded limb activity outside of the laboratory.

Files are stored in folders by Case number. Each folder contains files for all four limbs, named LUE, RUE, LLE, RLE, accordingly. For each limb, there should be 3 files (12 files total in folder).

\*.gt3x is the original Actigraph file and needs to be opened with Actigraph software.

\*\_RAW.csv is a comma-separated values file of the 30 Hz raw data, with accelerometry values in gravitational units ( $m/s^2$ ).

\*\_1sec.csv is a comma-separated values file with filtered and resampled data. Using the proprietary ActiLife software, data were bandpass filtered between 0.25 and 2.5 Hz and binned into 1 second epochs, where each second is the sum of the values within that second. Values are in activity counts, defined by the software as 1 activity count = 0.001664 gravitational units ( $m/s^2$ ).