**Abbreviations Guide**

**This abbreviations guide applies to the data found in “ExoStudyData.mat.” This .mat file includes the following data:**

* Muscle activity
* Joint angles
* Duration
* Switch timing
* Exosuit moments

**The abbreviations used for variables are listed below in the format [Full Name (Abbreviation)]:**

All variables start with "GRP" to indicate that this is data from the full subject group.

Task:

* Reach (no label)
* Drink (H2M)

Experimental Condition:

* 20 trials without exosuit (NO\_EXO)
* 40 trials with unpowered exosuit before powered (EXO\_OFF\_PRE)
* First 20 trials with powered exosuit (EXO\_ON\_EARLY)
* Last 20 trials with powered exosuit (EXO\_ON\_LATE)
* 20 trials with unpowered exosuit after powered (EXO\_OFF\_POST)
* All 20 trials with unpowered exosuit during drinking (EXO\_OFF)
* All 20 trials with powered exosuit during drinking (EXO\_ON)

Muscle:

* Anterior deltoid (aDELT)
* Middle deltoid (mDELT)
* Posterior deltoid (pDELT)

Muscle activity metric:

* Mean muscle activity (indicates muscle name and MEAN)
* Integrated muscle activity (iEMG)

Kinematics:

* Elevation angle/plane of elevation (EA)
* Shoulder elevation (SE)
* Shoulder rotation (SR)
* Elbow flexion/extension (ELB)
* Cable Length (L)

Exosuit:

* Moment about shoulder joint (MOMENT)
* Switch on timing (SWITCH\_LRN)
* Switch off timing (SWITCH\_OFF\_LRN)