**Data description**

“Signals.mat” is a Matlab file, that contains the signals of the clinical study.

The file contains a Matlab structure called “Signals”, that has 10 fields, one for each subject. The fields are entitled S1-S10. Each subject repeats the movement (Functional Reach) three times, thus for each subject, there are three sub-fields, called “first”, ”second” and “third”, that refer to the repetition.

Each field contains a matrix with 6 rows, that provides the simultaneously acquired signals. Specifically, from the first to the sixth row, they are: left clavicle, sternocleidomastoideus, erectores spinae at L4 level, rectus abdominis, rectus femoris and tibialis anterior.

The sampling frequency is 2000Hz and the length of the signals is 30s.

For any further information, please contact Laura Burattini, PhD (l.burattini@univpm.it).

Details can be found in the corresponding paper:

“Sbrollini A., Strazza A., Candelaresi S., Marcantoni I., Morettini M., Fioretti S., Di Nardo F., Burattini L. Surface electromyography low-frequency content: assessment in isometric conditions after electrocardiogram cancellation by the segmented-beat modulation method”.