**User Study protocol:**

**Process:**

* The skin of the participant should be cleaned (? – rubbing alcohol as per the emg using ).
* The electrodes will then be placed on predefined positions. (gel should be applied to the electrodes before application, should I change electrodes for each user?)
* The participant then has the time to exercise reading and mouthing words before the study begins. Once the participant is comfortable with the way the study will work the study will begin. (This “exercising time” also permits us to check that the electrodes are well positioned and stable (ie won’t fall during the study))
* During the study the participant will be asked to read out loud a word 10 times and then mouth it 10 times (***mouthed speech)***. The different words will be displayed on a computer monitor in front of the participant and it will be explicit when a user has to read. Whilst the participant does so the data measured by the electrodes will be stored in different files that ensure anonymity of the participant. This will be repeated on 10 different words.

**Set of predefined electrodes positioning:**

* orbicularis oris top (upper lip)
* orbicularis oris bottom (bottom lip)
* depressor labii inferioris muscle
* mylohyoid muscle (neck)

**Set of words used in the study:** (10 movement words. Other options are: adding numbers (0 to 9 or numbers that can be used for movement eg: 45, 90, 180, 360). Another possibility would have been to select the 10 most used words in English however as the chosen words will later on be transmitted to a person it would be an advantage to have words to which the receiver can respond to)

* forwards
* back
* left
* right
* turn
* up
* down
* faster
* slower
* stop
* yes ?
* no ?