**Supplementary file 1**

**Supplementary Table S1: Table representing the pipeline used in EEGLAB (v. 14.1.1) interfaced in Matlab R2017b**

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| --- | --- | --- | --- | --- | --- | --- |
| Process | | | Function | | Settings/options | |
| Import data | | | pop\_biosig | |  | |
| Filter from 0.5 to 48Hz with FIR filter | | | pop\_eegfiltnew | | Automatic filter order by EEGLAB | |
| Add channel locations | | | pop\_chanedit | |  | |
| Visual inspection of noisy channels | | | pop\_eegplot | |  | |
| Remove noisy channels | | | pop\_select | |  | |
| Periods with high-amplitude deflections removed | | | pop\_select | |  | |
| Average reference | | | pop\_reref | |  | |
| Downsample from 2048Hz to 256Hz | | | pop\_resample | |  | |
| ICA decomposition | | | pop\_runica | | *runica* algorithm | |
| Plot and remove components representing eye-blinks and saccades | | | pop\_plot; pop\_subcomp | | Identified based on (Chaumon et al., 2015) | |
| Interpolate removed channels (if any). | | | pop\_interp | | *spherical* algorithm | |
|  |  |  |  |  |  |  |