Points of relevance with known influence on outcome of transcranial electrical stimulation (tES) - FULL VERSION

A structured checklist increases the reproducibility of studies, minimizes deviations from a given protocol and diminishes variability. A structured checklist is thus the recommended procedure for enhancing reliability and comparability in publications of tES experiments/trials.

**Participant information**

* Age:
* Gender:
* Racial group:
	+ Caucasian/White
	+ African
	+ Asian
	+ Hispanic
	+ Other race:
	+ Mixed (i.e. >1 racial type):
* Handedness:
* Head size (distance in cm: inion – nasion, ear to ear distance):
* Previous experience with tES (additional information of potential relevance):
* Medication (Depending on the type of study an even more precise documentation may be necessary, measurement of drug levels may be considered, label and dose):
	+ Within last hours
	+ Within last days
	+ Within last months
* Caffeine consumption (cups) (indicate the best currently relevant estimate):
	+ Within last 12 h
	+ Average within last months
* Nicotine consumption (cigarettes per day) (indicate the best currently relevant estimate):
	+ Within last 4 h (half-life of Nicotine: 2 h)
	+ Within last 48 h (half-life metabolite cotinine: 10–37 h)
* Alcohol consumption (drinks) (indicate the best currently relevant estimate):
	+ Within last 24 h
	+ Average with last months (how many months?)
* Drugs (e.g. marijuana) consumption (to be specified):

(for comparability important that unit is given and comparable measures are noted)

* Hormonal/menstrual cycle of female subjects
* In case of patients non-neuropsychiatric comorbidities:

**Procedures applied, Dose parameters** (sufficient information about the stimulation parameters should be provided in order to replicate or model the stimulation dose independently based on these parameters)

* Type of stimulation (complicated waveforms with drawings):
* Metric to be used (e.g., behavioral, cognitive, EEG, MEP, MRI):
* Product number and model of stimulator used (consider Nr. as encoded in case of multiple stimulators available):
* Stimulation intensity (peak-to-baseline):
* Stimulation duration:
	+ Duration of ramping
	+ Fragmented stimulation (interval duration)
* Type and number of electrodes:
* Electrode positions:
* Electrode polarities in case of tDCS:
* Position of cable fixation at electrode:
* Electrode shape:
	+ target electrode:
	+ return electrode:
* Electrode size:
	+ target electrode:
	+ return electrode:
* Method of allocation of electrode position (neuronavigation, MEP hot spot, modeling etc.):
* Electrode-skin interface (any skin preparation steps):
* Type of fixation:

saline (molarity?), in case of cream, brand:

**Other factors to be considered**

* Tasks/status during stimulation (if any):
	+ Not specified or regulated
	+ Specified/regulated: details \_\_\_\_\_\_\_\_\_\_\_
* Day time of the experiment (from – to):
* Attention (level of arousal)
	+ before stimulation:
	+ during stimulation (optimal results expected with relaxation, not during arousal or sleepiness):
	+ after stimulation:
	+ Number of hours in sleep during the last night:
* Prior motor activity (i.e. cycling before stimulation, if yes, please define the duration):
* Prior rest (sleep) before stimulation:
* Duration of the whole experiment including preparation:
* Number of years in education (of interest in special, e.g. in cognitive studies):
* Additional comments: