INSTITUT FÜR PSYCHOLOGIE
ABTEILUNG NEUROPSYCHOLOGIE

*Institut für Psychologie*
*AG Neuropsychologie*
*Prof. Dr. Stefan Debener*

*Ammerländer Heerstraße 114-118*
*26129 Oldenburg*

Ansprechpartner für eventuelle Rückfragen:
*Tim Dreßler*
tim.dressler@uni-oldenburg,de

# Checklist for tid_psam Experiment

**Experimenter:** _____

**Date:** _____

**Subject ID (only number!):** sub-__

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**Note any problems that occurred here:**

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**If any problems occur, also state this in the *abnormalities list* by marking the subject ID red and briefly also state the problem there.**

| **Before the measurement** | |
|---|---|
| Check whether Lab 3 is booked correctly | |
| Enter data in the Lab-Book (apart from cap used) | |
| Check next available subjectID and mark it as taken + **Codelist** | |
| Prepare EEG-Set-Up<br>• Prepare syringes & paper towels<br>• Measuring-Tape<br>• Prepare alcohol cotton sticks<br>• Prepare Cap (including EOG)<br>• Prepare hairdryer (NOT the red outlets) & towels | |
| Prepare Lab 3<br>• Turn on both PCs and Screens<br>• Open webcam on recording (right) PC<br>• Set up microphone (Input 2)<br>• Turn on the light and the air conditioner in the chamber<br>• Connect Audio-Interface to the presentation (left) PC<br>• Put a towel on the chair<br>• Check for correct sample rate (**44100 Hz**) and buffer (**256**)<br>• Check for correct sound output (ADAT1/2)<br>• Set up timing set up (**real** audio signal in **RIGHT** channel)<br>• Prepare scripts on the presentation (right) PC<br>  ○ tid_psam_create_conditions_file.m<br>  ○ tid_psam_stimuli_recording_adapted.py (in VS Code)<br>  ○ tid_psam_prepare_stimuli.praat<br>  ○ tid_psam_select_stimuli.m<br>  ○ tid_psam_determine_loudness.m<br>  ○ tid_psam_main_experiment.py (in PsychoPy → Run as administrator)<br>• Open BrainVisionRecorder on the recording (right) PC and select the workspace tid_psam_33chan | |
| Prepare paperwork<br>• Information sheet<br>• Consent sheet<br>• FAL (incl. ID)<br>• NASA-TLX (incl. ID) | |

| **Preparation for the measurement** | |
|---|---|
| Arrival participant | ___ : ___ |
| Turn on light “Bitte nicht stören” | |
| Show participant the lab, state that we can also see them throught the camera | |
| Talk about the next steps and **get consent sheet signed** | |
| Ask participants to remove smartphones and earrings | |
| Give participant part 1 of the instructions, also repeating it verbally | |
| **Stimuli recording & further preparation** | |
| Place participant in sound chamber and adjust the microphone so that it is **~5cm from the participants’ mouth** | |
| Let the participant practice the vocalizations, correct them if needed | |
| **Run tid_psam_create_conditions_file.m** and enter the subjectID (only the number!) | |
| **Run tid_psam_stimuli_recording_adapted.py** (in VS Code) | Time: __:__ |
| **Run tid_psam_prepare_stimuli.praat**<br>(Watch-Out: Enter subject ID WITH one leading zero (if needed)) | |
| Ask the participant to leave the room to fill out the **FAL** and to **wash their hair** and go to the **toilet** | |
| **Run tid_psam_select_stimuli.m**<br>Check stimuli for quality, changing files if needed | |
| Prepare EEG Cap | Size: ____ cm<br>ID: ____<br>Start: __:__<br>End __:__<br>Duration: ___ min |
| Add used cap in the lab book | |
| Place the participant in the seat and provide part 2 of the instructions, also repeating it verbally | |
| Check impedances and save a screenshot under data/BIDS/sub-XX/eeg, naming it tid_psam_sub-XX_imp_before.png | |

| **During the measurement** | |
|---|---|
| Place participant in sound chamber again and adjust the microphone so that it is **~5cm from the participants' mouth** and turn on the amplifiers after unplugging the powerpacks. | |
| **Run tid_psam_determine_loudness.m** saying:<br><br>*"Ich werde Ihnen nun die Aufnahmen wiederholt präsentieren. Unser Ziel ist es gemeinsam eine angenehme Lautstärke zu finden. Hören Sie sich die Aufnahme zunächst einmal an und sagen Sie, ob die Lautstärke angenehm ist."*<br><br>Enter the selected **attenuation** as the script asks for it | |
| Close all scripts **except** for **tid_psam_main_experiment.py** | |
| **Start BrainVisionRecorder Recording**<br><br>**Saving the file as "tid_psam_sub-xx"**<br>(Watch-Out: Enter subject ID WITH one leading zero (if needed)) | |
| **Run tid_psam_main_experiment.py** | Start: __:__<br>End: __:__<br>Duration: ___ min |
| **After the measurement** | |
| Check impedances and save a screenshot under data/BIDS/sub-XX/eeg, naming it tid_psam_sub-XX_imp_after.png | |
| Remove the participant from the EEG system, turn off the amplifiers and plug them in | |
| Place the participant at the table | |
| **NASA-TLX** | Start: __:__<br>End: __:__ |
| Remove EEG Cap & wash hair | |
| Compensation sheet | |
| Participants leaves | ___ : ___ |

| **Follow-Up** | |
|---|---|
| Save all files<br>• Copy the main data (sub-xx folder under /BIDS/) to server<br>• Copy the stimuli data (sub-xx folder under /BIDS/stimuli/) to server<br>• Copy the EEG data to BIDS/sub-xx/eeg | |
| Remove timing set up | |
| Clean Lab 3 with disinfectant wipe | |
| Turn off the light and the air conditioner in the chamber | |
| Clean EEG Cap (use green bowl to soak it while participants are washing their hair) | |
| Clean sink, turn lights off | |