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Sub project: D02

Date and location: 07.04.2022, MadLab

Participants: Prof. Bjoern Eskofier, Prof. Bernhard Egger, Lydia Rupp, Klara Capito, Misha Sadeghi, Lena Gmlech, Stephanie Böhme, Robert Richer, Ulla Sternemann

Keeper of the minutes: Misha Sadeghi

Date and location for next meeting: 05.05.2022, MadLab

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| **topic 1 - Synchronization** |
| content/description: |
| * Synchronization board will be used for 60 GHz radar since Johannas synchronization board will not be ready in time * The new radar will take about 3 months * Fabian’s radar will output a synchronization signal to the biopac * Cameras and mobile phones will be synchronized via timestamps (will be implemented by Lukas) |
| tasks and responsibilities: |
| * Fabian will add the sync output to the radar and prepare the new version of the radar until May 13. |

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| **topic 2 - App / content of training** |
| content/description: |
| * Third condition final – last details are discussed * The SynBoard is the most important thing to get exact synchronization of different data streams |
| tasks and responsibilities: |
| * Meeting on ADK condition with Matthias * Forward content to Lukas (Klara) |

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| **topic 3 - Biofeedback in third condition** |
| content/description:   * + - Question: How to get a biofeedback signal from the Biopac to the phone?     - Goal: Have live biofeedback; participant reactions trigger changes on the phone     - Estimation by Robert: Such a feature would not be possible to implement at the moment, it might take a year still 🡪 Issues: Real-time processing is difficult for facial expressions; algorithm recognition rates for EMG are too low     - Alternative: Wizard-of-Oz design 🡪 Problems: Subjective rating, experimenter has several other monitoring tasks, maximum subjective contraction also does not create a stable baseline measurement, having more than one rater might hamper the atmosphere of a psychotherapy session     - Suggestion: Outsource data rating to MTurk or similar     - Other question: Who will conduct the experiments? PT2 candidates?     - Other alternative: Only use the phone and standard algorithms for facial recognition; OpenFace can be run on a phone * How to get the data for movements on specific muscles?  🡪 Idea: Record facial muscle activity from a smaller sample of people and set a baseline which is then used to define zones of muscle activation for the experimenter/to define a labelling or feedback paradigm. The next step would then be to send the feedback signal to a phone  🡪 Signal can easily be transmitted from the tablet to the phone (app works with server-client-connection)  🡪 Experimenter needs to make a decision on a predefined protocol  🡪 Further issue: Pre-experiment would need to be done with depressed individuals as well, since they might show a lower facial muscle activity/alternatively require activity in the ‘green zone’ for healthy participants only and it is fine if depressed individuals reach it  🡪 Question: Who will do the implementation? Hiwis/Master’s students would need a lot of time or might not be able to solve the problem 🡪 Question: Can Aqknowledge perform real-time processing 🡪 There is another software for Biopac (Deep Lab presentation) which can be used for real-time processing, but this software is also used for stimulus presentation. We cannot use this software since we are using the app. |
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| tasks and responsibilities: |
| * + - Discuss with Lukas on how to implement feedback from the tablet to the phone  🡪 Have a joint meeting with Misha, Lukas, Klara, and Lydia to discuss the implementation  🡪 Suggest a meeting on April 12th     - We might need to start without biofeedback and start with the other conditions first (and later recruit a new sham condition)     - We need to find someone who is experienced with EMG signal processing (Steph?)     - Use trained experimenter as a fall-back option |

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| **topic 4 - Questionnaires** |
| tasks and responsibilities: |
| * DAS: 18-item version is not available as a questionnaire manual?  🡪 Suggestion: Buy the official manual for the 40-item version and only use the items validated for DAS A and B? * SCID training: Who, when, where, for whom? * HRSD: Where will the results be recorded? Unipark, on paper, app |
| **topic 5 - Hiwis** |
| content/description: |
| * Hiwi capacities for MAD-Lab tasks: Ulla is also involved in other projects and only has 9 hours per week 🡪 Hire an additional Hiwi or should Ulla prioritize D02 tasks?  🡪 Björn: There is a lot of Hiwi money left in EmpkinS * Hire a psychologist Hiwi? What would be possible tasks? |
| tasks and responsibilities:   * Klara contacts Judith and inquires how many additional Hiwis we can hire (especially for the labelling task; either psychologists or engineers, depending on what we need) * EmpkinS has highest priority for Hiwi tasks |

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| **topic 6 - General lab setup** |
| content/description: |
| * Lab laptops 🡪 Klara talked to Jonas and order is correct; laptops will be self-administered 🡪 nothing extra needs to be done * Cabinet and garbage bin are still missing 🡪 Who is responsible for buying this? Is there a company which is usually contacted for furniture? * Room usage by other people: Who else is using the room and when? * Other equipment in the room: Who does it belong to? |
| tasks and responsibilities:   * Recording room will be moved elsewhere * Office equipment is usually bought at BL-Office; best to contact them directly and ask for an offer which is then sent to Judith * Garbage bins: Ask university cleaning company/or buy own one from Amazon or IKEA |

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| **topic 7 - Recruiting procedure** |
| content/description: |
| * Question 1: Where to recruit? Where to put flyers, etc.? * Question 2: How to conduct screenings? Via phone or unipark?  🡪 If Unipark: Do we need an extra data consent form? * Question 3: How much time between screening and diagnostic appointment? * Question 4: Who will conduct the SCID? And who will train the people conducting the SCID?  🡪 Can this count as PT2 (for Klara and Lydia)? 🡪 If Hiwis should conduct the SCID, we need to hire them before the SCID training (soon) |

**Notes:**

* When can we start recruiting?
* When can we start testing?