

# Agenda D02 meeting 17.03.2022

(Misha, Klara, Lydia, Lena, Steph, Robert)

## 1) Laptops for Lab

- a. Status:
  - i. Klara ordered 3 laptops via webshop after talking to Judith → no confirmation from Bechtle yet
  - ii. Invoice goes to EmpkinS Office (Judith) directly & laptops should be sent to MaD-Lab
  - iii. Administration of laptops?
  - iv. Contacted IZI about administration of laptops
  - v. Usual procedure at MAD Lab: Jonas (technician) orders laptops and they are directly delivered to MAD-Lab
  - vi. Usual procedure at KliPs: Laptops are ordered via the Webshop and delivered to IZI  
→ Downside: New software needs to be installed via RRZE
  - vii. Requirements for new laptops: Windows needs to be installed but new programs should be able to be installed freely without relying on RRZE
- b. Responsibility: Robert & Klara
- c. Next steps?
  - i. Clarify administration issue
  - ii. What exactly do we need and want?
  - iii. How is this usually done at MaD-Lab? Who knows this?  
→ Klara talks to Jonas to discuss usual procedure at MAD-Lab
  - iv. Do we have to cancel order at Bechtle? Or put it on hold?  
→ Will be discussed with Jonas

## 2) General lab equipment - shopping list

- a. Status:
  - i. Lena managed to open the Klips-Schrank
  - ii. Klara ordered sticky rings for new EMG electrodes
  - iii. Update from Steph: Two chairs with a mesh back can be picked up at Nürnberg for free (near Klinikum Nord)  
→ Idea: Get a car and pick up Schrank and chairs on the same day
  - iv. Microphone: Lena has a recommendation from her husband and asked Maurice whether it would work  
→ Possible issue: Audio quality might not be sufficient
- b. Responsibility: everyone
- c. Next steps:
  - i. Bring Schrank from Klips to EmpkinS-Lab?
  - ii. Update list (Trello?) – what is still missing?  
→ Discussion on softbox: Buy the same softbox that is currently borrowed; light colour should not be changeable to avoid inducing a further source of error
  - iii. (Meet and) order missing items from shopping list!
  - iv. Organize a car and transport Schrank and chairs from the MAD-Lab

- v. Get tripods for cameras and Radar
  - Should be fixed to the ground in the lab
  - Tripod for Radar: Ask Fabian how to attach Radar to a tripod/check for something that can be used to put the Radar on the tripod (screws on the tripod are usually standardized)
- vi. Radar from MAD-Lab and KliPs will be transported to Cauerstraße to be fixed; EmpkinS-Radar might be repaired faster and is planned to be used in WIZ

### 3) Biopac hardware specifics

- a. Status:
  - i. Appointment with Biopac and Misha and Klara
  - ii. Status from Biopac: It should be possible to send a synchronization signal to the Biopac as it has 16 different input channels. Biopac can be used with Superlab stimulus presentation software. It should be possible to put a software 'between' the Biopac and the mobile application to send triggers.
    - Question: How and where would the interface be programmed?
    - Phone needs to communicate with the Laptop somehow
  - iii. Suggestion by Robert: Use synch-board from EmpkinS to synchronize Biopac and Radar
    - The signal on the synch-board can be freely configured; Biopac and Radar need to receive a signal which can be sent out simultaneously on both devices
    - Problem with ECG: ECG has integrated filters in the hardware which smears the signal and doesn't let the peak synch-signal through; we need to have a signal which passes the filter and is also visible on the data stream. Suggestion: PRB (pseudorandom binary sequence) sequence which can be 'mixed' into the Radar signal but can be extracted again later
    - Labels from the app can be extracted to label the data streams
- b. Responsibility: Klara, Misha
- c. Next steps:
  - i. Create a study overview to show to Mrs. Phung
  - ii. Pitch decisions to Matthias and Björn
  - iii. Buy

### 4) Hiring designer for all videos?

- a. Status:
  - i. Designer is still animating the videos, no news yet
- b. Responsibility: Lydia (psychologists)
- c. Next steps:
  - i. ADK condition needs to be finalized to the storyboards for the new instructions can be sent to the designer

### 5) App

- a. Status:
  - i. Updated decisions and content for App sent to Lukas so he can keep working (no feedback from Lukas yet)
- b. Responsibility: Klara, Lukas, Misha
- c. Next steps
  - i. Connect all the devices to the same network

- ii. Install latest version of App on all possible devices
- iii. Decide on where we want to have timestamps and labels & what labels

## 6) EMG data

- a. Status
  - i. Dryrun yesterday went well: New electrodes seem to work (no problem that they don't have a shield)
  - ii. Introduction by Steph today
  - iii. To do's (literature research on EMG) already added to Trello board
- b. Responsibilities: Psychologists, Misha
- c. Next steps
  - i. Literature research
  - ii. Decision on
  - iii. Steph will look at the data next week when she has the vision analyzer software; it will be checked whether the instructions for the ADK worked

## 7) Data protection and hygiene concept

- a. Status
  - i. Lydia filled out form for data protection
- b. Responsible: Lydia, Lena
- c. Next steps
  - i. Wait until ethics amendment is finished and finalize data protection form
  - ii. Fill out hygiene concept form

## 8) Markers in BioPac data, segments/experiment phases (Misha, Steph?)

- a. Status:
  - i. Misha: it is possible to extract absolute time-stamps in ACQknowledge → absolute timestamps only seconds; relative timestamps also show milliseconds
  - ii. Digital interface: has to be connected to separate laptop, Biopac to another laptop → software: superlab-presentation – possible to send different triggers, etc. for feedback... → Question: Is it possible to trigger feedback on phone, too?
  - iii. Misha and Robert met with A04 to discuss synchronization of radar and BioPac; needs to be discussed with BioPac representatives and A04 people until a decision can be made
- b. Responsibility: Misha and Ulla (and Lukas!)
- c. Next steps:
  - i. Overview on data and possibilities of synchronization
  - ii. Ask open questions in Biopac meeting!

## 9) Speech analysis

- a. Status:
  - i. Still open what hardware to buy
  - ii. Problem with clip on microphone used in Para → interface is needed (at least 70€)
  - iii. Waiting for feedback from Maurice on clip on microphone with USB connection
- b. Responsibilities: Psychologists

- c. Next steps:
  - i. Decision
  - ii. Buying it

#### **10) Finalizing ADK condition**

- a. Status:
  - i. Slides with suggestion for App-Screens / instructions in ADK condition
- b. Responsibility: psychologists
- c. Next steps:
  - i. Meeting with Matthias!
  - ii. Final discussion

#### **11) Finalizing Sham condition**

- a. Status: -.-
- b. Responsibilities: psychologists
- c. Next steps: after ADK condition is set

#### **12) Dryruns**

- a. Status:
  - i. tested new electrodes and instructions for ADK condition
  - ii. Steph has the data and wants to analyse it with visualizer software she can borrow (hopefully next week?)
  - iii. Also the Radar broke → ...
- b. Next dryrun
  - i. When?
  - ii. With what aim?

#### **13) Finances:**

- a. Status:
  - i. See overview costs D02
  - ii. Klara did some estimations of what we have spent already and will spend soon
- b. Responsibilities: Klara? & Robert, Lena? (+Judith)
- c. Next steps:
  - i. Are there things that have not been considered yet? (money for questionnaires? Second Azure Kinect? Anything else?)
  - ii. Check the budget again together and get an overview if there is anything that has not been accounted for  
→ Everyone should think about what we still need to buy!
  - iii. Order a second depth camera

#### **14) Compensation for participating:**

- a. Status:
  - i. Incentive for participants stays the same (40€)
  - ii. More money will be needed for newly added 4<sup>th</sup> group

#### **15) DAS questionnaire**

- a. Status:

- i. Include ATQ and short version of DAS if time allows it
  - ii. Lydia did some research on versions from DAS
  - iii. No standardized short version
- b. Responsibilities: psychologists
- c. Next steps:
  - i. Decision if DAS should be included
    - Might not be feasible since the short version has not been validated
  - ii. Check availability of the ATQ
  - iii. If so, which version
    - ask Matthias in next meeting with him

## 16) General plan:

- a. Status:
  - i. Plan to collect data starting beginning of April
  - ii. We want to have  $n=?$  participants by end of 2022!!!
    - Originally planned  $n$  per year = 70, when investigating 3 groups (now we planned 4 groups)
- b. Most important next steps?
  - i. General final decisions from Matthias! - DONE
  - ii. Shopping
  - iii. Final lab setup
  - iv. Final dry runs (incl. Synchro)
  - v. Finalize App
  - vi. Recruiting
  - vii. Hiwis & BA/MA