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Sub project / GAP (incl. sub projects): GAP VII – A04, A05, D03

Date and location: 16.05.2022, 09:00 – 10:30, MaD Lab Seminar Room / Zoom

Participants: Nicolas Rohleder, Robert Richer, Veronika König, Felicitas Hauck, Lena Gmelch, Nils Albrecht, Markuy Heyder, Hui Liu, Christian Carlowitz, Luca Abel, Ulla Sternemann

Keeper of the minutes: Robert Richer/Felicitas Hauck

Date and location for next meeting: TBD

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| **topic 1 – Status Update from Sub Projects** |
| content/description:   * A04: Radar PCBs delivered and assembled; next steps: Testing, firmware programming, GUI development * A05: Sensor development in progress; first version will not be ready until later in 2022 (probably October) * D03: “AP1 – Macro” data collection completed; next steps: data analysis |

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| **topic 2 – Study “GAP VII – Teilschritt 1“** |
| content/description: Planning of first GAP VII study   * EmpkinS Proposal: use MIST protocol for micro movements; however: pre-studies have shown that using the MIST is unfavorable => modify TSST protocol to be better suitable for micro movements (sitting vs. standing) * A05 sensor will not be ready for planned start of data collection (end of June/beginning of July), A04 sensor will be ready => split GAP VII study in two parts: (1) only A04 sensor (July – October/November); (2) A04 + A05 sensors (November – early 2023)   Plans:   * Study design for upcoming: TSST / friendly-TSST (within-subjects), sitting vs. standing (between-subjects) * Goal: Record at least n=40 participants for part (1) (preferred: n=60) * Place A04 radars at front and back of participant (front: 1 sensor, back: 3 sensors along spine) * Modify TSST to introduce talking breaks: 1 min baseline (after preparation and before beginning of talk), 0.5 min (between talk and math), 1 min postline (after math and before leaving the room); additionally, both talk and math phases will be interrupted in the middle by breaks of 0.5 min => total duration of breaks: 3.5 min * Leverage “natural” talking breaks during (f)TSST * Include additional cardiac measures, such as pre-ejection period (PEP, very interesting sympathetic marker in psychophysiology) and assess feasibility of measuring PEP using radar - additional requirements: measuring impedancecardiography (ICG, gold standard for cardiac output) => order ICG module for Biopac system (OK from Bjoern)   Outlook:   * Start including A05 sensor later this year (some small modifications to the study protocol might be required) * As soon as first version of A05 sensor is ready (probably only measuring reflectivity, not micro movements): Plan evaluation measurements apart from “actual” GAP VII study |
| tasks and responsibilities:  A04:   * Finish sensor prototypes * integration in D03 study protocol   D03:   * Finalize study protocol * Think about cover stories for forced talking breaks * Recruit and onboard students for data collection * Order ICG module from Biopac   Both:   * Organize test sessions |

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| **topics for next meeting** |
| 🞏 Status Update  🞏 Find date for regular meetings  🞏 Discuss integration of A05 sensor in second part of data collection  🞏 Discuss study protocol with D05 |

**Notes:**