On behalf of the SurPASS team
Nidhi Gupta
VISION
Device-Based Measurement system for surveillance and cohorts on MEANINGFUL 24/7 Physical Behaviors FOR ALL
MEANINGFUL 24/7 DOMAIN SPECIFIC PHYSICAL BEHAVIORS

WORK

SB
LIPA
MVPA

DOMESTIC - LEISURE

SB
LIPA
MVPA
Sleep
DEVICE-BASED MEASUREMENTS FOR ALL
WHAT IS REQUIRED?

LOW BURDEN
ON PARTICIPANTS AND ADMINISTRATORS

DATA FLOW AND SECURITY

FLEXIBLE AND SCALABLE
DEVELOPMENT OF THE SURPASS SYSTEM

Phase 1: Defining user specifications
Consult users

Phase 2: Iterative development & evaluation
Development
Refinement
Testing

Phase 3: Feasibility evaluation
~250 will participate
Feasibility evaluation of the SurPASS
THE SURPASS SYSTEM

The app
On participants phone

The web-app
For researchers

The backend
The brain of system

The sensor
On participants body
THE SURPASS MEASUREMENT SYSTEM

- No battery charge
- Record for 3 consecutive weeks
- Cheap

Faster result generation

7 days measurements

- Fully automatic data processing
- Fully automatic data analysis

ActiPASS/Acti4
UNIQUENESS AND NOVELTY

Back-end (the brain)

- GDPR safe data
- Data infrastructure for harmonization of data from multiple countries
- Standardised, automated data processing and data analyses
USER PRE-FEASIBILITY TEST OF THE SYSTEM (N=38)

7 days measurements

- Questionnaire
- Semi-structured interview

- Participant experience and expectations
  - Device attachment
  - App usage
  - Postage
  - Burden
- Administrator experience
  - Web-app
  - burden
The system is in feasibility phase and is ready to go

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<th>Sensor and App</th>
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A cultural adaptation and a feasibility trial of the system should be conducted when used in various regions and countries in the future.
Project Team

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Rebranding The System
Thank you

find more information about the project here:

https://nfa.dk/da/forskning/strategiske-forskningsomraader/om-msb/om_msb_researchers

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