

Accelerate Health Innovation Across Boundaries - Access & Acceleration Conference 2022

IDEA WORKSHOP RESULTS

Interests in health innovation stated in the concept board

Imaging

- AI used in radiology
- Decision-making support

Virtual reality

- How far have we come with augmented reality in health care?
- Application area: rehabilitation (at home), of elderly (joint usage by patient and home nurse)
- Application area: employee training, professional health education
- Application area: psychiatric hospitals

Data-driven technologies

- Potential target groups: patients, elderly, pregnant women, socially vulnerable
- Smart wearables for (home) monitoring of parameters, e.g. heart rate strap or integrated in smart clothing, application in dementia care
- AI for early detection, e.g. of MS, heart failure – integrated application to smartphone?
- AI for (clinical) decision support systems in treatment decision making
- Development of a cross border health data platform
- Automatization of repetitive tasks at hospitals, e.g. registration (RPAs)
- Collaborative robotics, e.g. robot-surgeon, robot-disinfection staff
- Mobile robotics (case: transportation of e.g. blood samples)

Medical rapid prototyping

- Wider and earlier use of low fidelity prototyping, dare to share ideas early
- Multiple prototyping to allow early evaluation of success and value
- Iterative process, user testing early on, living labs
- Prototype electrode for endoscopic electroporation in the urinary bladder
- MRS-safe micro actuators for clinical trials (quantify reception of mechanical stimuli)

Others

- Implementation of healthcare technology (long term use and value)
- Systems to support cross-sectoral collaboration, home-hospital-municipality
- Healthcare@home, difference between DK and DE
- Interoperability of different technologies, e.g. wearables with decision support systems
- Technology that supports decision making but still educates/ shapes human experts

Inspiration for further health innovation from the dialogue

Potentials for health innovation

- Data driven decision making in relation to personalised health
- Better integration of community-based health care services - closer to people activities at home, in communities etc.
- Focus not only on treatment, but also on prevention
- Patient-driven innovation

How to

- Openness of health professionals to collaborate on things that are not yet defined (enter brainstorming, open discussions etc.) is much higher in DK than in DE, but still, it is usually hard to convince them to enter into joint initiatives (taking time to do so)
 - Approach to invite doctors to the canteen for a not fancy dinner, typical round tables, different topics presented and then facilitated the discussions at the round table
 - Students to match doctor's time lack being in both places and exchanging each side's needs
- Identify a challenge resp. an unmet clinical need is one of the main challenges to start development process
- Facilitate access to innovation exchange with clinicians - offer formats at the clinic to keep the threshold for cooperation as low as possible
- Clinicians and industry need to learn from each other into clinical daily life
- Involve nurses as important group – successful examples in Denmark
- Get more patients involved in the innovation processes by healthcare providers (not only on clinical trials)
- Algorithm data and democracy project in DK – how can you involve citizens in AI technology projects, offer dialogue about what will it mean to introduce AI in the hospitals to different stakeholder groups such as patients, doctors etc.
- Develop database further to offer collaborative matchmaking more easily?
- Hands on approaches, i.e. innovation ambassador functions
- Find and exchange methods on the problem of “different languages” between different technology fields



If you wish to share experiences or learn from other innovators' ones, please visit the health innovation platform at www.access-innovation.eu. For entering into matchmaking activities, please have a look at the therein offered database. Please feel free to contact Katharina Rubahn at University of Southern Denmark, kru@tek.sdu.dk, for any additional information needs, or to join the network.