

patient@home



***Tele-health,
as a way to improve the orthopaedic pathway
- promoting patient-empowerment***

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Inter-scientific; Cross-sectoral; Multi-disciplinary

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Maersk Mc-Kinney Møller Institute,
University of Southern Denmark




Aim

To develop, test and evaluate together with the patients whether a tele-health solution can provide them with better security and support for self-care in treatment of a hip fracture with short length of stay in hospital



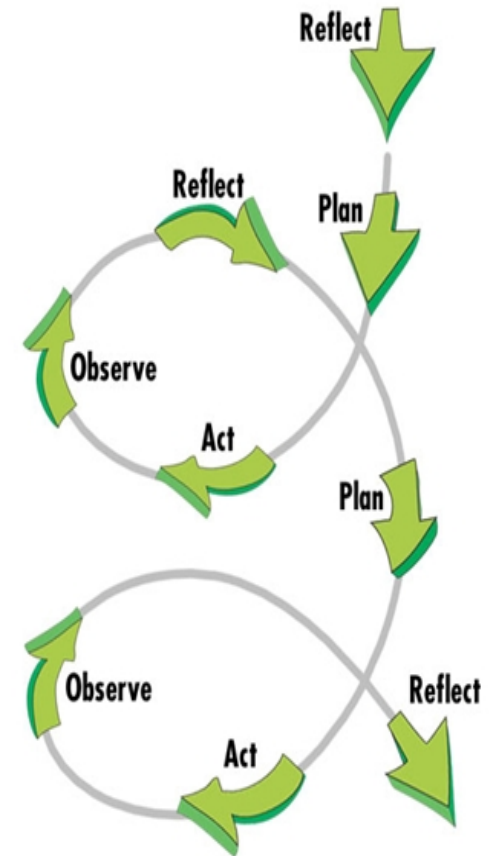
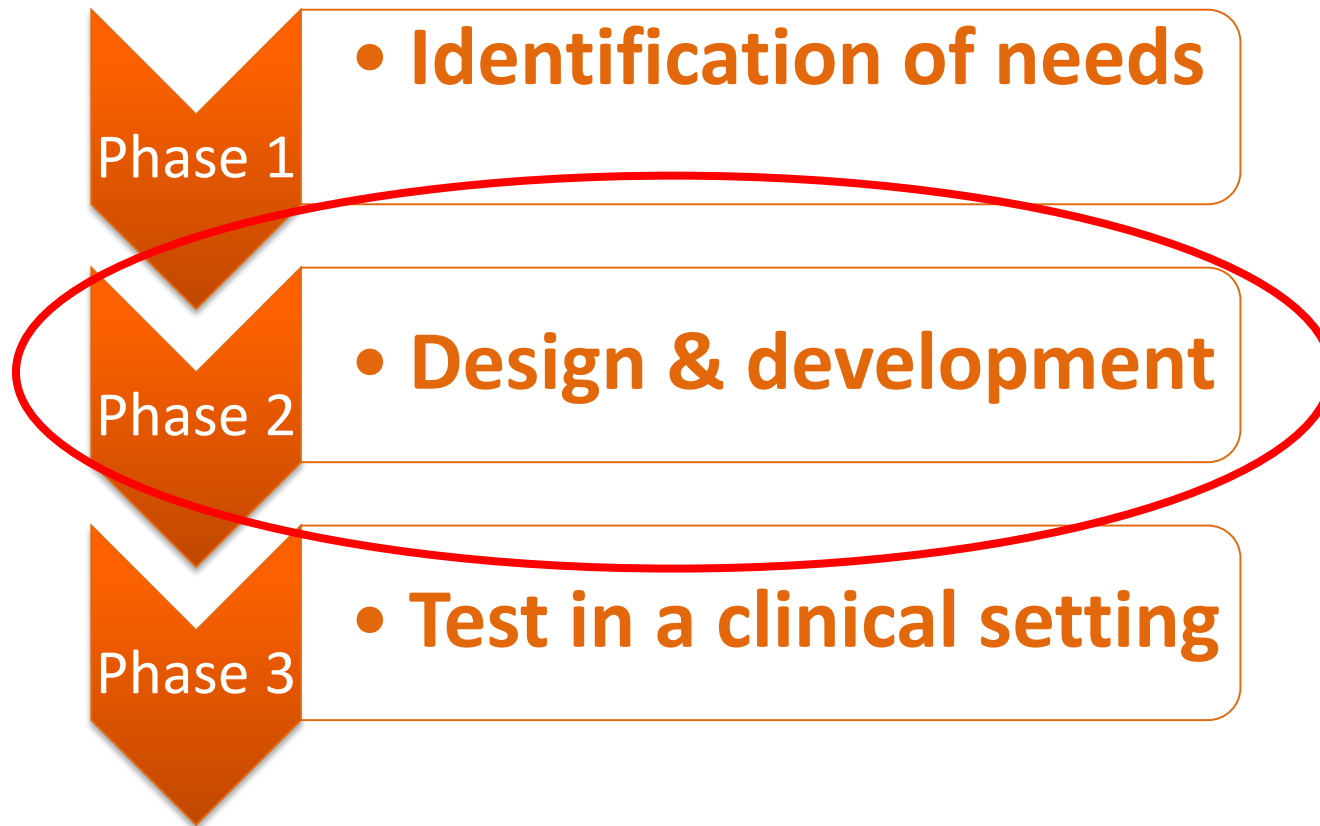
Background

- Most common cause (Parker M, Johansen A. 2006) (Palm H. 2008)
 - Great cost (DrHoftebrud. National Annual Report 2016)
 - Future healthcare system
 - Accelerated pathways with short LOS in hospital
- 
- Osteoporosis is the largest predictor of fracture (Lips P. 1997)
 - ↑ elderly population (1,5 mio > 65 yrs in 2040) (www.danmarksstatistik.dk)



Participatory Design –

involving users and designers in the research and innovation process



Clemensen, J., Rothmann, M. J., Smith, A. C., Caffery, L. J., & Danbjorg, D. B. (2016). Participatory design methods in telemedicine research. *J Telemed Telecare*



Severity

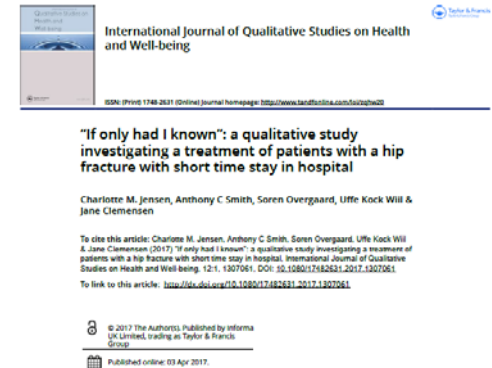
- ~ 10.000 individuals per year in Denmark
- ~ 20 % die within year 1

Inclusion criteria

- ♀ > 60 years; ♂ > 65 years
- Fracture caused by fall from same level -> indicating osteoporosis
- Patients discharged to own homes
- Treated at OUH



Findings from phase 1



- Hospitalized for ~ 5 days
- Oral and written information
- Patients had no re-collection of information given during admission
- Patients had limited knowledge of osteoporosis and the associated risk with fragile fracture
- Patients felt treated as "a hip fracture" not as individuals
- Patients have a strong desire to be in charge of their own lives and to remain autonomous
- Patients did not feel empowered in a pathway with short LOS



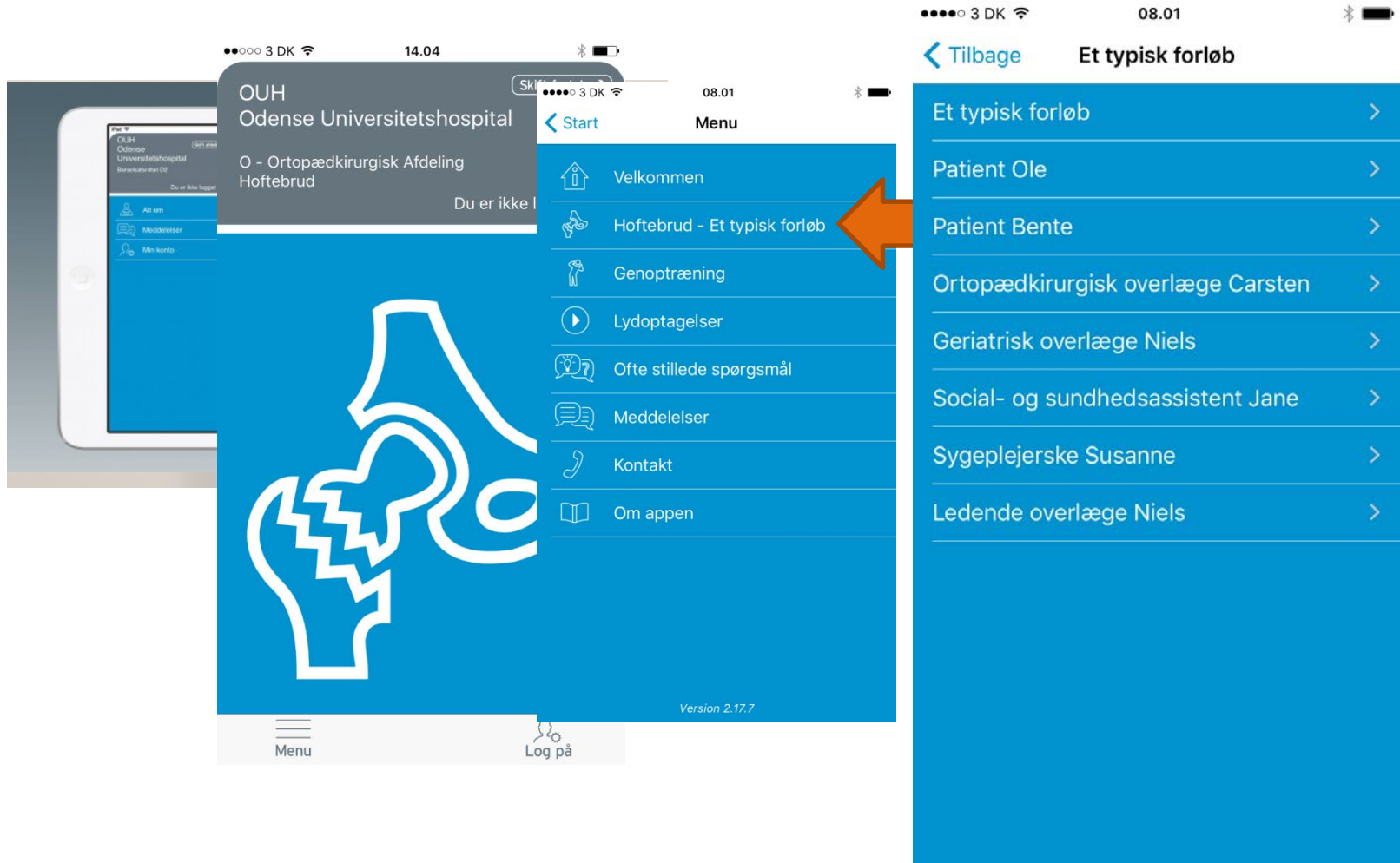
‘Bridging the gap’



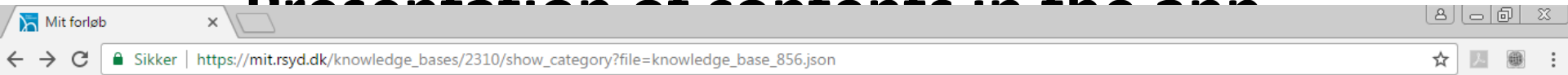
Phase 2: Design and development



Presentation of prototype



Presentation of contents in the app



Kom godt igang igen - hele filmen



▶ 0:00

14:16
31-10-2017



Phase 3: Test in clinical setting

- Commenced 1st December 2017



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