

# HimSS<sup>®</sup>19 Eurasia

Sağlık Bilişimi ve Teknolojileri  
Konferansı ve Fuarı



Düzenleyen	
	
Organizasyon	
	

## Best Applications of Health IT, Odense University Hospital

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 @MetteMSkjoeth

30 Ekim - 1 Kasım 2019  
Pullman Hotel Yenibosna  
**İSTANBUL, TÜRKİYE**

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# Agenda

- OUH – challenges and visions
- Apps
- Telecommunication
- AI
- Patients roles



 @ Speaker twitter handle

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# Odense University Hospital

- University hospital with all medical specialties
- 1000 hospital beds
- 10,000 employees
- Area of 1,200,000 inhabitants
- 1,100,000 outpatient visits per year
- Average length of stay: 3,2 days



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# New Hospital in 2022



20% fewer beds  
8% smaller budget  
...and more patients

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# Hospital of the Future



Hospital of the future is  
going to be the patients  
own home....

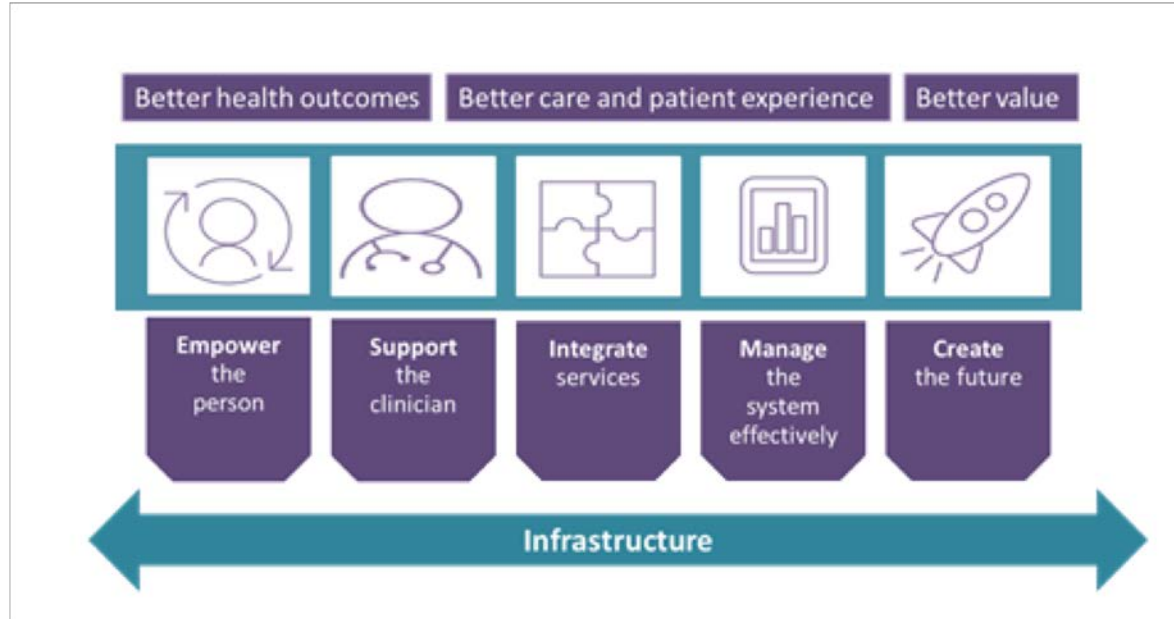
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# Digital Vision



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## Information - APP - "My Hospital"



- Information to patients and relatives about treatment and examinations.
- Patient Reported Outcome.
- More than 130 different pathways.

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## A lifeline connecting the new parents with the hospital

Find new ways to provide support for the early discharged mothers and her partner using participatory design:

- **investigating their needs**
- **designing and developing** a solution
- **exploring** how they experience it
- **evaluating** whether a telemedicine solution can ensure a sense of security, wellbeing and self-efficacy

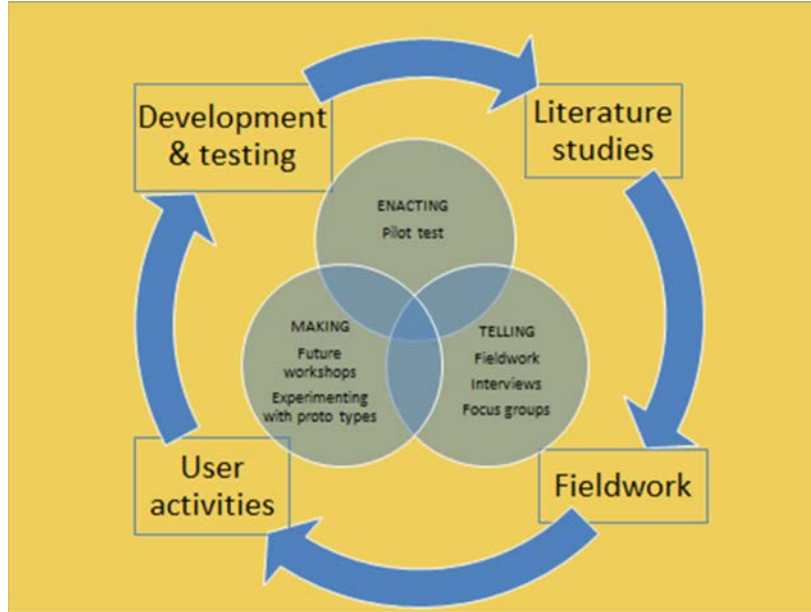
Project Manager: Dorthe Boe Danbjorg, PhD

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# Participatory Design



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# An app as a lifeline connecting the new parents with the hospital

- Tailored and validated **information**
  - – in the form of texts, images and videos.
- A **calendar** function
- Condition and **symptoms**
- Send **messages** and photos to the hospital staff and get an answer – via the app – within a timeframe of e.g. 4 hours
- **Monitor** and send information about weight, temperature and blood pressure to the hospital.



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## Why is My Hospital a succes?

- Patient relevant
- Known expectations
- Accessible through EMR for clinicians
- Ability to costumize through different modules
- Technology used in general in society
- Supports the way patients wish to communicate with the healthcare system



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# Neonatal Tele Home Care



The aim of the project is to investigate whether stable preterm infants can receive neonatal care at home through technology.

Christina Garne Holm, Ph.D. H.C. Andersen Children's Hospital and Centre for Innovative Medical Technology, Odense University Hospital/Institute of Clinical Research, University of Southern Denmark.

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# Neonatal Tele Home Care

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# Key findings



- Key results and findings:
  - Days in hospital for mother and child lowered significantly
  - Quality of life and ability of parents to care for newborn increased significantly
- Lessons learned:
  - Participatory Design + iterative processes ensures ownership among staff and right solution for patients
  - Legal issue: Maternity leave rules dependent on hospitalization
  - Economy: Reimbursement scheme must be in place for providing telemedicine service

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# Tele-Interpretation

From this scenario



Status 2014: 88% at  
OUH, 64% at regional  
level

...to this




## Why is this a good idea

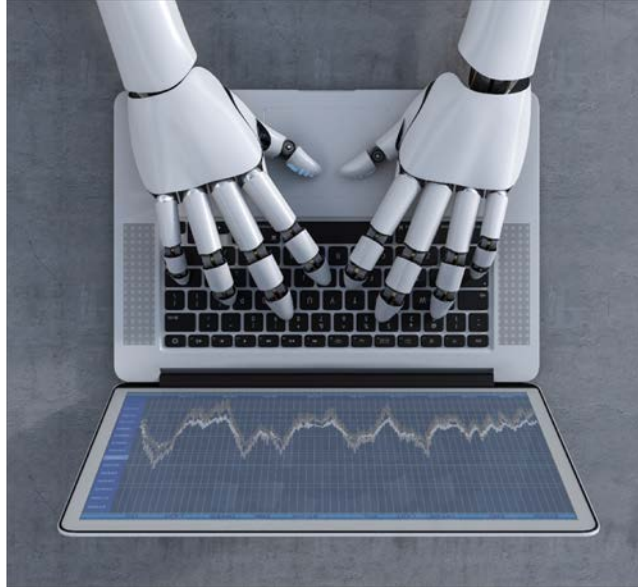


- Because it makes good sense both **qualitatively and financially**.
- Makes it easier to provide interpreting assistance in **all languages** .
- The patient receives a more **professional performance** and there is less likelihood that the interpreter and the patient know each other.
- **Transport and time are saved** when the interpreter no longer has to drive to the treatment site.

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# Artificial Intelligence and Robotics



The vision with working with AI and Robotics is “to provide better healthcare for the individual citizens through the intelligent use of data and technology” with a special focus on:

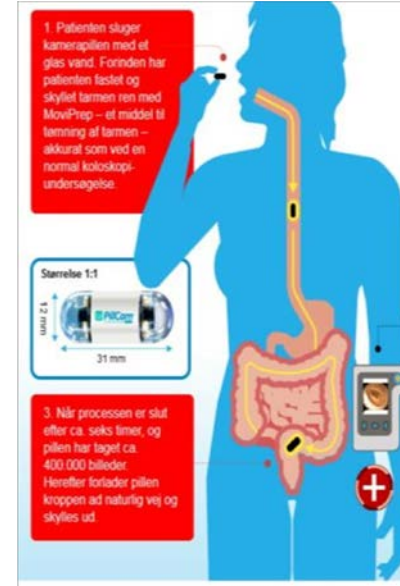
- Disease causes
- Screening methods
- Diagnostics
- New treatment
- Prevention

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# Pill Cam for screening of Colorectal Cancer

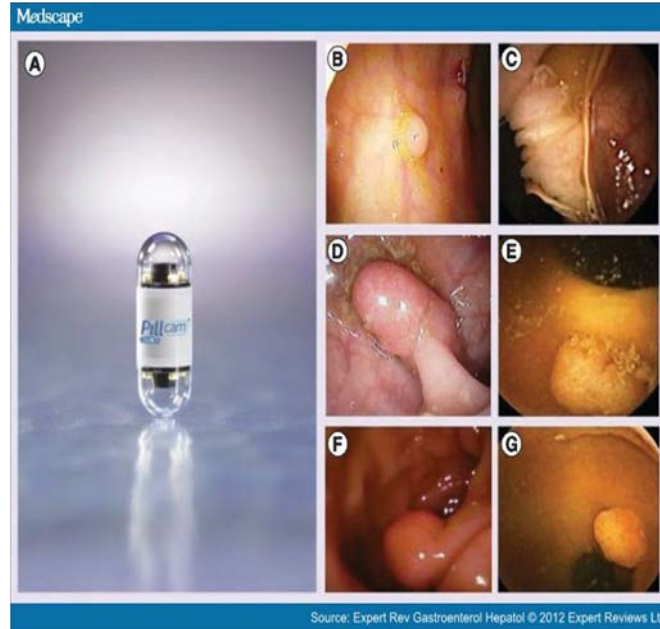
- Colorectal cancer is one of the most common cancers in Denmark.
- National screening since 2014 for citizens aged 50 to 74.
- You swallow a mini camera that takes pictures of the colon while passing unnoticed through the body.



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# AI in the future



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# Project ROPCA – Robot for ultrasound



## Ultrasound

Ultrasound is a big part of clinical practice

Both in medical and surgical specialities

Diagnosis, disease monitoring and procedures



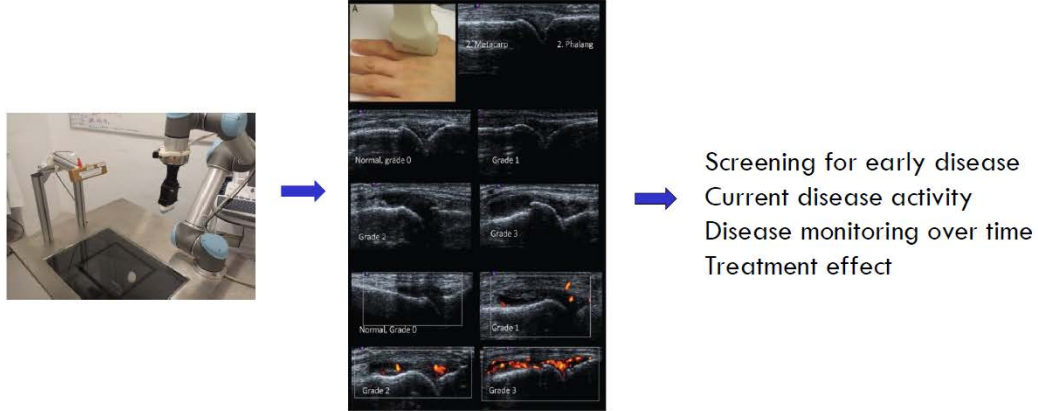
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# ROPCA – Automated Ultrasound and AI


Automated interpretation



Screening for early disease  
Current disease activity  
Disease monitoring over time  
Treatment effect

OUH  
Odense  
University Hospital

 WORLD ARTHRITIS DAY  
12 OCTOBER

 SDU

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# Patient of the future:

- Individualist (own health expert)
- Critical (attitude/opinion towards self-treatment, debates own treatment)
- Demanding (expecting to be part of the decisions and to influence the pathway)
- Equality
- Self treatment (leads own treatment)



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Hello Healthcare system!  
As an expert in being a patient, I  
have some advice for you...



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# The right solution for the right patient.....



- One size does not fit all....
- Important to have a palette of different solutions for both patients, relatives and employees

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Thank you!

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