

Telemedicin og digitalisering af sundhedsvæsenet

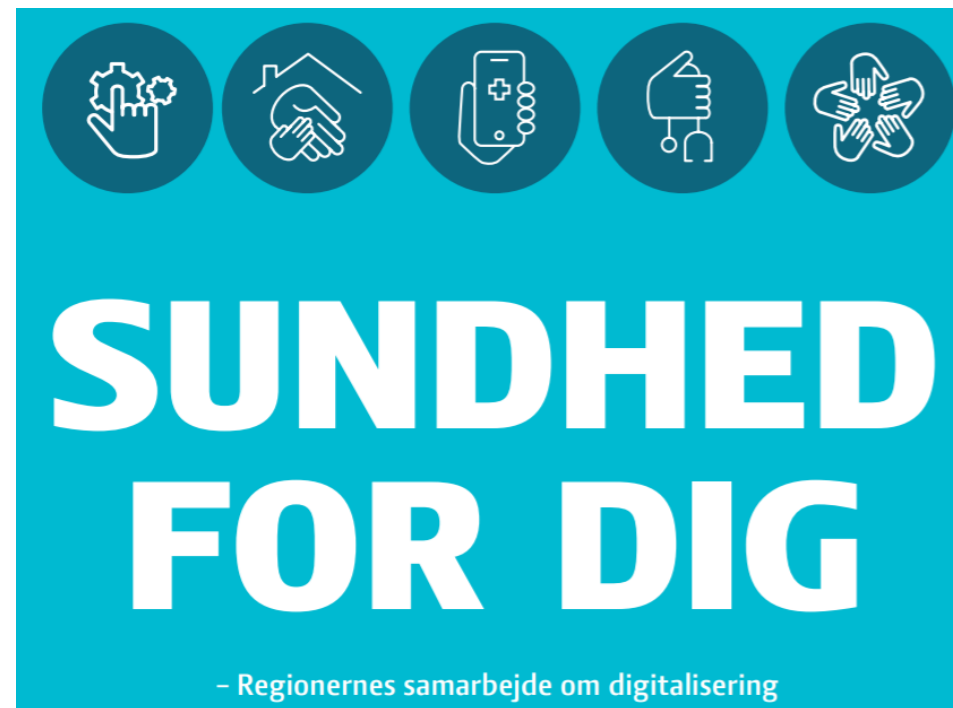
- Hvad har vi lært under corona-pandemien?

Professor Kristian Kidholm
CIMT – Center for Innovativ Medicinsk Teknologi,
Odense Universitetshospital



Digitalisering af sundhedsvæsenet: Et strategisk mål

Juni 2020



De telemedicinske teknologier :

- Apps til patienter
- Telefonsamtale med patienter
- Videosamtale med patienter
- PRO - Patient Reported Outcomes
- Kommunikation med isolerede patienter via tablet
- Point of care testing (POCT)



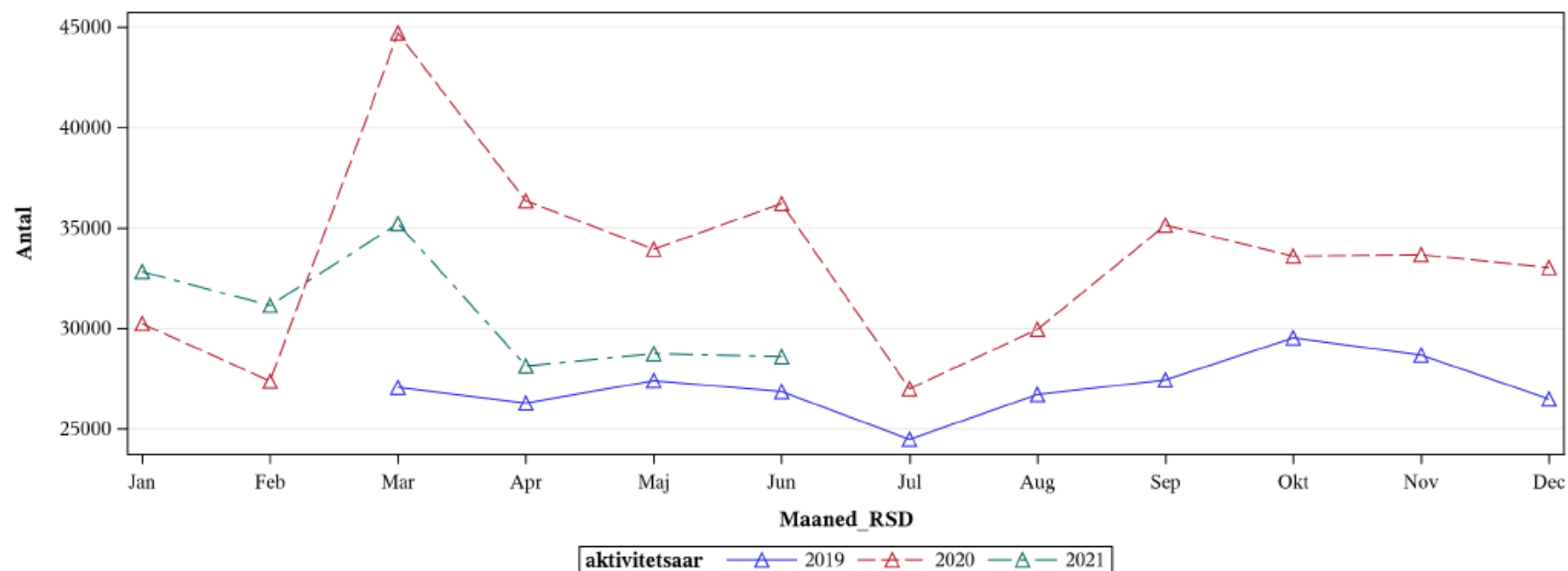
Udviklingen under pandemien



Udviklingen på Odense Universitetshospital

Virtuelle kontakter (brev, telefon, video, email)
Fra 2019 til 2020: Stigning på 48%
Fra 2020 til 2021: **Fald på 12%**

Antal Virtuelle kontakter samlet pr. måned for OUH



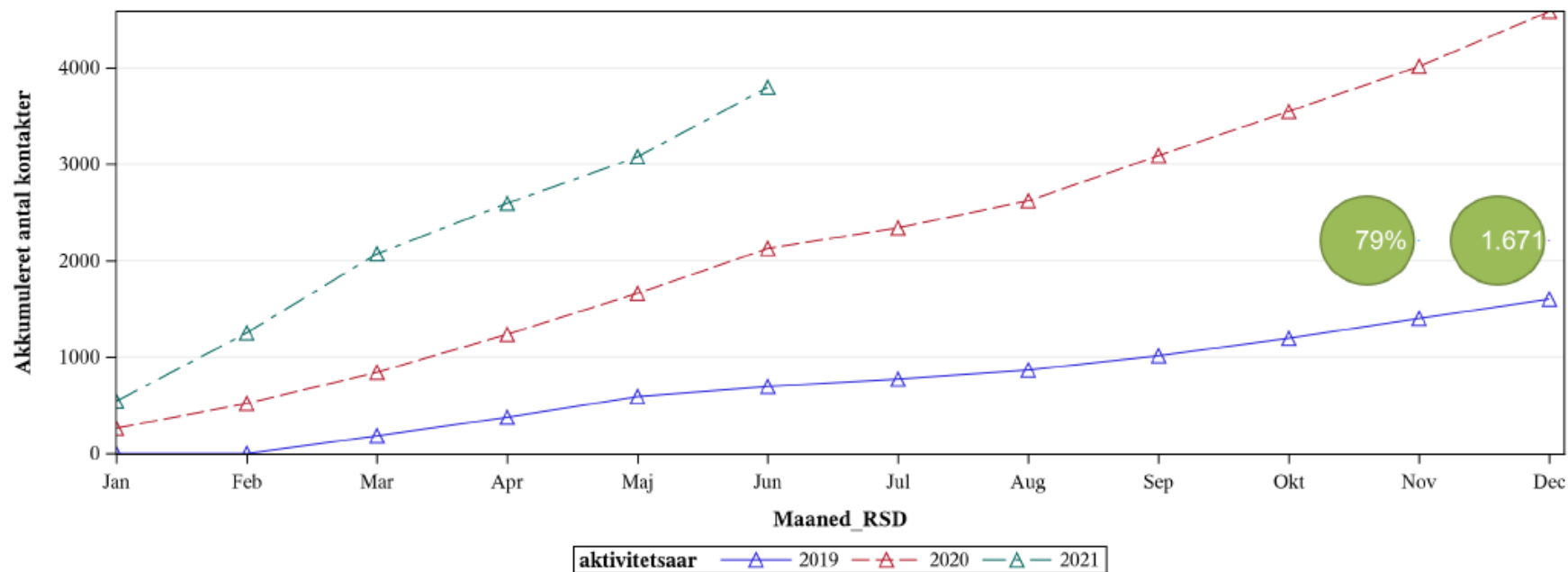
Udviklingen på Odense Universitetshospital

Video:

Fra 2019 til 2020: Stigning på 286%

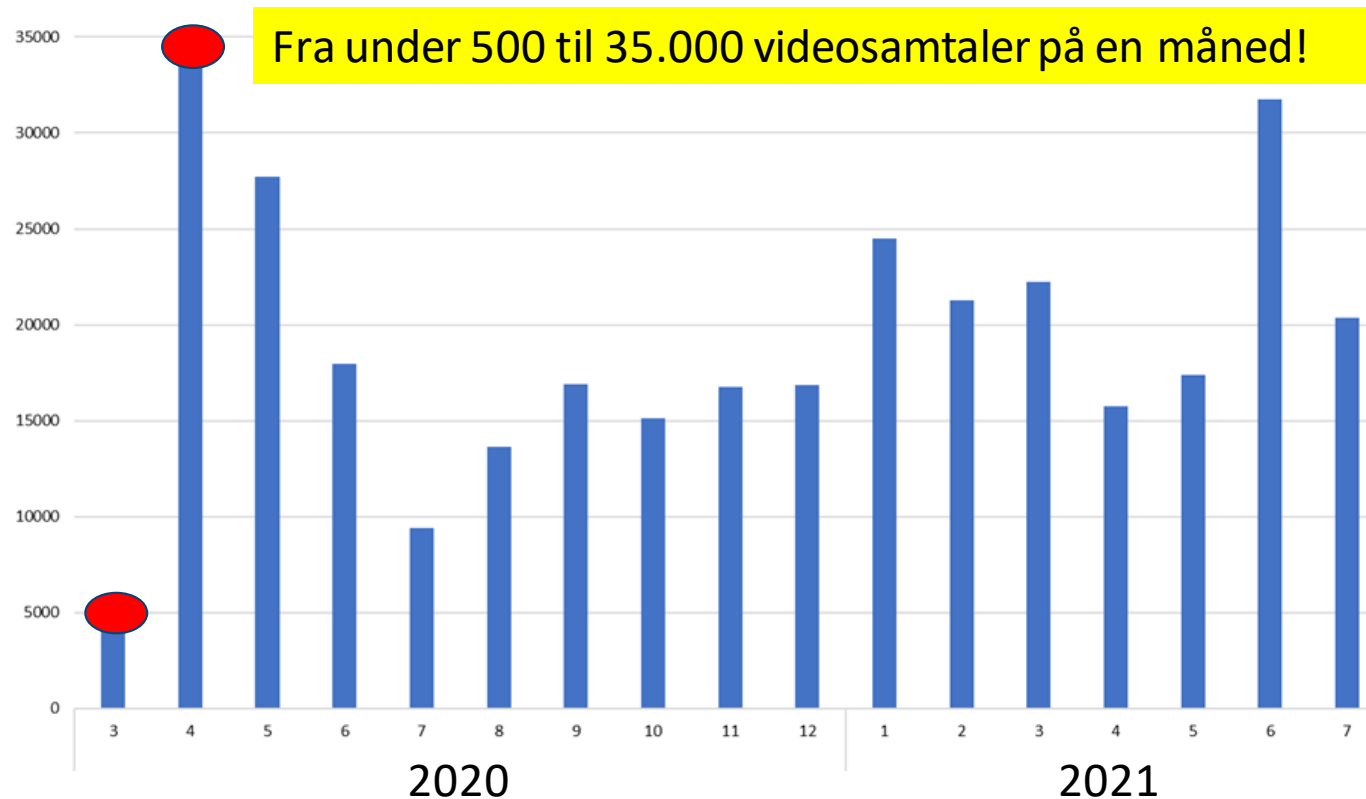
Fra 2020 til 2021: Stigning på 79%

Antal Virtuelle kontakter - Videokonsultationer akkumuleret pr. år og måned for OUH



Udviklingen i almen praksis

Antal videomøder per måned i 2020-2021 via VDX med MinLæge app'en

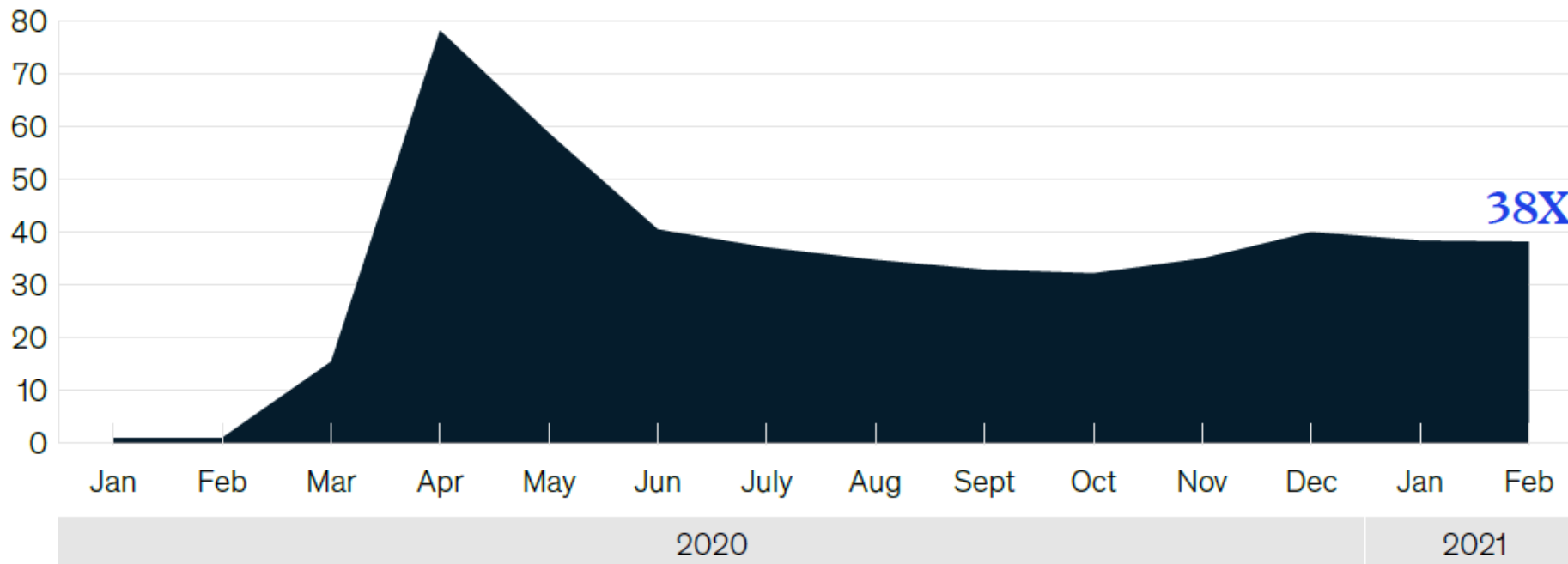


Kile:
MedComs VDX

Telehealth: A quarter-trillion-dollar post-COVID-19 reality?

McKinsey
& Company

Stigning i antal telehealth ydelser betalt af forskinger i USA i forhold til februar 2020



Patienternes holdning

Wilke web-survey med 1460 borgere, april-maj 2020, for Danske Patienter:

- 27% har haft digital kontakt med sundhedsvæsenet de seneste 6 måneder
- 55% er interesseret i at kontakten med sundhedsvæsenet i højere grad sker digitalt
- 73% af dem, der har brugt digital kontakt, ønsker at kontakten i højere grad bliver digital



Danmarks statistik: It-anvendelse i befolkningen 2019

- 9% af befolkningen er frmeldt Digital post



Konklusionen?

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”Nej! – Vi skal ikke hjem, vi skal videre!”



DSAM-formand vil afskaffe videokonsultationer efter corona-epidemi

Kilde:
Dagens Medicin
15. April 2020

”Vi ved ikke om videokonsultation skader mere end det gavner”



TELEMED: Evidence Based Telemedicine - in a Hospital Setting

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This website provides an overview of evidence based telemedicine in hospital settings and serves as an inspirational overview for clinical hospital departments looking for information on telemedicine as well as others who are interested in evidence based digital solutions in hospitals.

The TELEMED database contains more than 300 articles on telemedicine and lets you filter your search on medical specialities, technology or clinical effect. The search results are shown as tables with data on diagnosis, intervention, technology and results of the studies in relation to clinical effect, patient experience, economy and implementation.

Text Search











Medical Speciality

Country

Technology

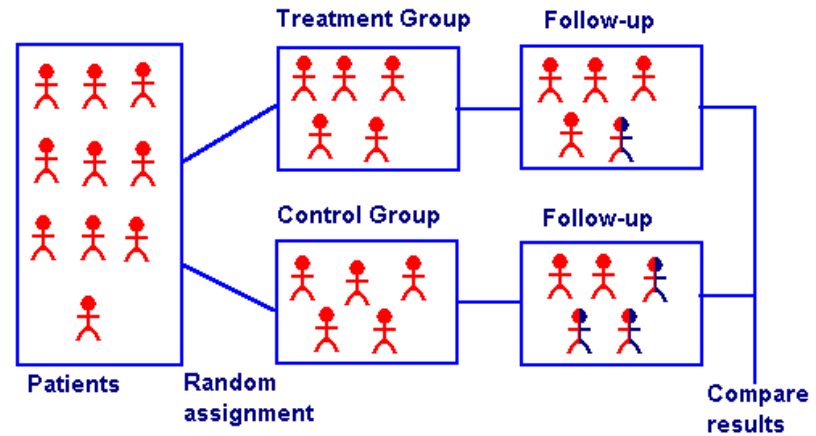
Clinical Effect

2009-2019: 7 RCT af videosamtaler til patienter med kræft

Filter	Country	Diagnosis	Intervention	Technology	Clinical Effect	Patient Experience	Economic Effect	Implementation	
Cost analysis of a speech pathology synchronous telepractice service for patients with head and neck cancer.	Australia	- Head cancer - Neck cancer	Speech pathology telepractice service providing swallowing and communication intervention. General imaging probe for close up views of the oral cavity or tracheostoma and an intraoral probe for fine detailed images of the oral mucosa or dental area		●	●	●	B+D	Read more
Randomized controlled trial of a multisite speech pathology telepractice service providing swallowing and communication intervention to patients with head and neck cancer: Evaluation of service outcomes.	Australia	- Head cancer - Neck cancer	Speech pathology telepractice service providing swallowing and communication intervention - General imaging probe for close up views of the oral cavity or tracheostoma and an intraoral probe for fine detailed images of the oral mucosa or dental area		●	●	●	B+D	Read more
Mindfulness-Based Cognitive Therapy in Advanced Prostate Cancer: A Randomized Controlled Trial.	Australia	- Advanced prostate cancer	Group-based mindfulness-based cognitive therapy to reduce distress		●	●	●	B+D	Read more
Telehealth system: A randomized controlled trial evaluating the impact of an internet-based exercise intervention on quality of life, pain, muscle strength, and fatigue in breast cancer survivors.	Spain	- Breast cancer (stage I-IIIa) - Adjuvant therapy (except hormone treatment)	Internet-based tailored exercise intervention for improving adverse events, functional capacity and cognition.	 	●	●	●	B+D+E	Read more
Effect of an Internet-based telehealth system on functional capacity and cognition in breast cancer survivors: a secondary analysis of a randomized controlled trial.	Spain	- Breast cancer (stage I-IIIa) - Adjuvant therapy (except hormone treatment)	Internet-based tailored exercise intervention for improving adverse events, functional capacity and cognition	 	●	●	●	B+D+E	Read more
The effect of weekly specialist palliative care teleconsultations in patients with advanced cancer -a randomized clinical trial.	Netherlands	- Advanced cancer with less than 3 months to live - Home-dwelling - Have a GP who agrees to participate	Teleconsultations from a hospital-based specialist palliative care consultation team (SPCT). Effect on patient experienced symptom burden		●	●	●	A+B+D	Read more
The effects of psychoeducation and telephone counseling on the adjustment of women with early-stage breast cancer.	USA	Psychoeducation and telephone counseling on the adjustment of women with early-stage breast cancer	Psychoeducation and telephone counseling on the adjustment of women with early-stage breast cancer	 	●	●	●	B+D+E	Read more

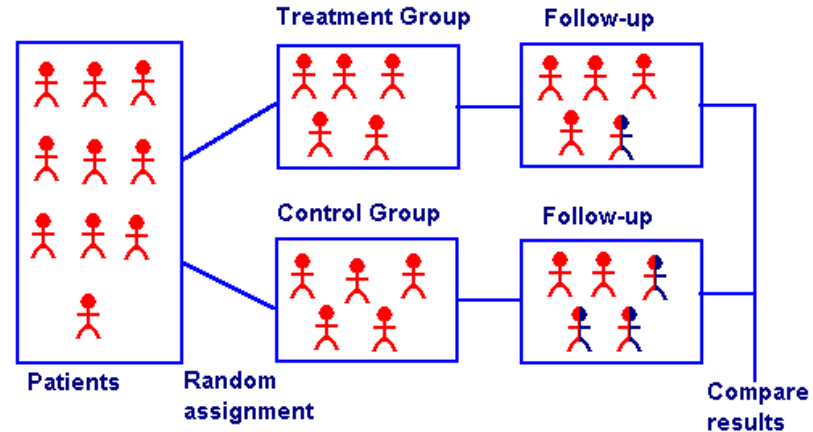
Hvilken forskning er der brug for?

Det randomiserede,
kontrollerede studie



Hvilken forskning er der brug for?

Det randomiserede,
kontrollerede studie



Kohorte studier

Patienter efter
implementering

Observations studier

Patienter før
implementering

Patienter efter
implementering



Hvilken forskning er der brug for?



Liu and Wyatt. "The case for RCTs to assess the impact of clinical information systems." *Journal of the American Medical Informatics Association* 18.2 (2011): 173-180.

Hvordan finder vi den næste telemedicinske patientgruppe?



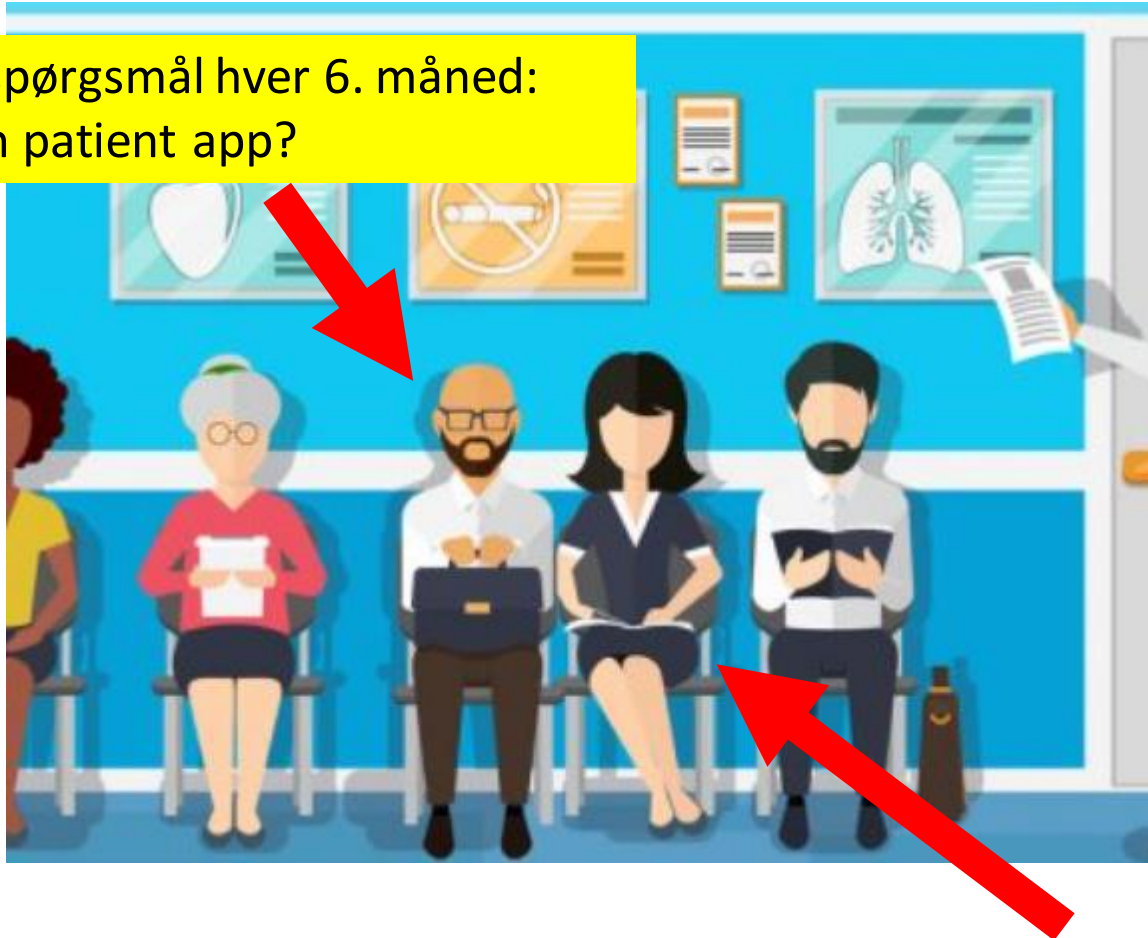
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Patienten besvarer samme spørgsmål hver 6. måned:
- Kan data indsamles med en patient app?



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Regelmæssige amb. besøg - en samtale om KRAM + medicin:
- Kan samtalen holdes på video?

Afslutning

- **Telemedicin er en væsentlig del af løsning på pandemien**
- **Der er stadig et stort potentiale i telemedicin til mange patienter**
- **Vi har IT-systemerne og borgerne ønsker flere digitale tilbud**

”Nej! – Vi skal ikke hjem, vi skal videre!”