

EVALUATION OF NATIONAL IMPLEMENTED TELEHEALTHCARE FOR COPD PATIENTS IN DENMARK

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Who am I?



- Sabine Michelsen Raunbak
- Research assistant at DCHI, Aalborg University
- Upcoming PhD student



What?

Aim:

To evaluate the nationally implemented telehealthcare for COPD patients in Denmark.



How?

Substudy 1:

Uptake of the treatment

Substudy 2:

Clinical effect, quality of treatment, costs

Substudy 3:

Quality of life, safety, empowerment

Substudy 4:

Health economic evaluation



Why?

- Experience with use of telehealthcare to COPD patients
 - Experiences can be used on other disease-areas
- Improve future treatment options for COPD patients
- Critical assesment of telehealthcare in a real-life practice.











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Supplementary material

- Substudy 1
- Substudy 2
- Substudy 3
- Substudy 4



Substudy 1(tentative): Uptake of telehealthcare

- How is the uptake of telehealthcare?
 - How do the patients recieve the telehealthcare solution, and how many accept the treatment?
 - Characteristics of patients who accept telehealthcare in relation to age, comorbidity, socioeconomic status and location
- Registry based prospective cohort study among patient who are eligible to telehealthcare
 - Based on data from national registries and municipalities
- Gives insight into the offer and acceptance of the telehealthcare solution among Danish COPD patients, as well as patient- and system-related characteristics for the COPD patients who are offered and accept the use of telehealthcare

Substudy 2(tentative): Effect of the telehelathcare

- Effect to patients in telehealthcare compared to patients in current Danish practice
 - Clinical effect, quality of treatment, and costs
- Registry based prospective cohort study which compares COPD patients in telehealthcare with COPD patients in current Danish practice
 - Based on relevant registry data and data from the Danish regions and municipalities
- Frequency and costs associated with admissions, outpatient admissions, acute admissions, and municipal services, as well as total costs in the health sector including patient-paid medications, and death rate
- Information about the quality of treatment will be assessed by using quality indicators that reflect compliance with recommended guidelines from the Danish Registry for Chronic Obstructive Pulmonary Disease



Substudy 3(tentative): Effect of telehealthcare on patient-reported outcomes

- Comparison of COPD patients in telehealthcare and COPD patients in current Danish practice.
- Inclusion of questionnaires
 - European Quality of life 5 Dimensions(EQ5D)
 - Health-related quality of life
 - ICEpop CAPability measure(ICE-Cap)
 - · Quality of life in relation to well-being
 - Questions on feeling of security and safety, and empowerment
- Gives insight into the effect of telehealthcare on patients' quality of life, empowerment, and patients feeling of safety and security

Substudy 4(tentative): Economic evaluation of telehealthcare in real-life practice.

- Health economic consequences of introducing telehealthcare in a Danish setting to patients with COPD, compared to COPD patients recieving current Danish practice
- Combined health economic analysis which includes the best available evidence of costs, and effects of telehealthcare to COPD patients
 - Includes relevant results from substudy 1-3
- Cost-effectiveness of telehealthcare to patients with COPD in Denmark
 - Average costs and effects of telehealthcare to COPD patients compared to COPD patients in current Danish practice

