



AARHUS UNIVERSITY

SCHOOL OF BUSINESS AND SOCIAL SCIENCES

TECHNOLOGY SPECIALISATION 1

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# Rehabilitation strategies for Patients with Cardio-vascular disease

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# Abstract

# Acronyms and Abbreviations

ICT Information Communications Technology

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# 1 | Introduction

Test af skrift type

Prøve: [1] Test

## 1.1 Background

### 1.1.1 Technology

### 1.1.2 The Danish Healthcare System

structure reform

The establishment of the danish healthcare system started in the eighteenth century. The first hospital was placed in Copenhagen and it opened in 1757. This hospital is still functioning and is today known as Rigshospitalet. Outside the capital small hospitals were build during the late eighteenth century in 1927 there was a total of 140 somatic hospitals in Denmark.

### 1.1.3 Target Group and Market Segment

## 1.2 Problemstatement

The total cost of treating cardiovascular patients at the hospitals in Denmark was 5.5 billion DKK in 2015. The incidence is approximately 55.700 a year. About 107.100 Danes get admitted to the hospital every year due to a cardiovascular disease. Overall this will be 148.600 admission due to approximately 23 percent of the cardiovascular patients are readmitted into the hospital within 30 days after being discharged. Beyond the admissions the Danish system have 73.100 ambulant consultation within the hospital. Every year 12.400 Danish citizens dies from cardiovascular disease and it is thereby the second most common cause of death in Denmark .

All this indicates that cardiovascular patients constitute a large part of the Danish states economy. This leads to our problem statement which is:

- How can ICT be used to shorten hospital stay for cardiovascular patients?
- Which barriers/challenges can such system meet in implementation?
- What impact would an ICT solution for rehabilitation have on both cardiovascular patients and the Danish healthcare system?

### 1.2.1 Delimitation

## 2 | Method

## 3 | Theory



## 4 | Empirical process

## 5 | Analysis and discussion

## 6 | Conclusion

# Appendix

# References

- [1] Adnan K. Chhatriwalla, Keith B. Allen, John T. Saxon, David J. Cohen, Sanjeev Aggarwal, Anthony J. Hart, Suzanne J. Baron, Danny Dvir, A. Michael Borkon. Bioprosthetic Valve Fracture Improves the Hemodynamic Results of Valve-in-Valve Transcatheter Aortic Valve Replacement. *Circulation: Cardiovascular Interventions*. 2017. 10 (7): e005216.

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