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Conference Abstract

Early assessments of the expected return of innovative health technologies in hospitals

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Abstract

Introduction and aim: There is a rising need for decision support in the process with development of innovative health technologies. Further, sound approaches for early assessments of the expected value on innovations, coping with the uncertainty and flexibility inherent in innovations, are lacking. Along with the challenging economic conditions for health care over the next years and the increasing focus on innovations, it is important to develop a new approach to the estimation of the expected long term return on innovative health technologies early on in the process of technology development.

Objective of PhD project: develop a tool for early assessments of the expected value of innovative health technologies, which can be used by hospitals to select innovations that have a high probability of becoming economic feasible in the stage of routine use.

Methods: First, a systematic literature review identifies existing approaches for early assessments of the expected value of technologies in early phases. Second, qualitative interviews explore practices used in the industry (pharmaceutical, medical device) and by public healthcare organizations. Third, an early assessment model for technologies in the pilot study phase is developed, drawing on the above output. Fourth, data from initial routine use of two telemedicine technologies is used to test robustness and judge forecast performance of the tool.

Results:

Preliminary results from the qualitative interviews are presented. Ten interviews explore approaches for early assessments of the expected value of technologies in pharmaceutical/medical device industry and in public healthcare organizations.

Perspective: A good early assessment tool of expected returns of new innovative medical technologies will add value to strategic development decisions in the health care sector in Denmark. Perhaps even be a competitive advantage for Danish hospitals in an increasingly globalized world.

Keywords

early assessment; return; innovative technologies; hospital