



The Organization of Danish  
Medical Societies (LVS)  
Supported by the Novo  
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September/October 2020 on  
perspectives and challenges  
from AI and digital health

LVS is currently planning a row of meetings about the perspectives and challenges of the development of the future in data driven treatments in the Danish Health Care system. There will be three afternoon meetings in September ending with a conference at the Danish Parliament, Christiansborg Palace, October 28<sup>th</sup>, 2020.

## Definition

**Digital health** is the convergence of digital technologies with health, healthcare, living, and society to enhance the efficiency of healthcare delivery and make medicine more personalised and precise.

## Problem statement

July 1st 2019 The Danish National Genome Center was established. The Centre's fundamental purpose was to collect, analyse and protect data with genetic information of ill Danes with a more precise diagnostics and treatment. Furthermore, to give research opportunities of analysing the collected data under regulated terms. The Centre is a first step in the development of the future of treatment, personalised medicine, in Denmark. However, we will only get the full potential of the new technologies available and the possibility to develop tailored treatment to the patients – if we take the next step from genetics.

New insights and potential of treatment of patients will be released in the combination of genetically data and clinical data. Therefore, we need to incooperate new data sources: journal, laboratories, picture and new omics databased on biobank data, if we are to map the individual patients' health profile.

## Challenges

This raises many challenges: De do not by far have the necessary joint infrastructure established, to use the high quality of data sources, which we already have, to do this safely In Denmark. It raises many judicial and ethical dilemmas which we need to address in order to maintain the population's trust to the Danish health care research and the new technologies possibilities.

This stresses the need of educational changing the massive efforts in the health care system, where we are not nearly ready to apply/use and convey/communicate the potential of the new technologies to the patients. There is a serious growth in the application/use of algorithms and artificial intelligence. It is a problem, which concerns all the professional groups in the health care system. In the medical training, we speak of the seven physician roles, and maybe we need to formulate an eight role of the doctor that need to take the patient by the hand and be their technological guide.

## Overview and time schedule

Three afternoon meetings on 7th, 18th and 24th September and endingly a full day conference at the Danish Parliament, "Fællessalen" on Wednesday October 28th, compile Digital Health 2020. Jane Heitmann, chair of the Parliament Health and Senior Citizens' Committee and Committee of the Ethical Council, will host the meeting in the Parliament. Opening statement will be delivered by The Minister for Health Magnus Heunicke.

## The mapped human

*IDA Conference Center, Kalvebod Brygge 31 – 33, Copenhagen V, Monday 7<sup>th</sup> September 2020, 13.00 – 17.00*

The first theme of the meeting row concerns how we address the ethical dilemmas of the digital development and the complete mapping of the human being. It will be in the form of a hearing with data advocates versus data sceptics and some kind of over-the-top judges will complete the meeting. The question of the day is: "Should it be easier for scientists to access the many types of personal data in the development of future treatments"? How do we develop legislation and law in order to balance the private life and the digital life, which will not block the progress that the patients wish of better treatments?

## Hype or Hope?

*IDA Conference Center, Kalvebod Brygge 31 – 33, Copenhagen V, Friday 18th September 2020, 13.00 – 17.00*

The digital health solutions are tumbling over us right now. We have to move further from genetics to the use and application of even more data sources, if we are to secure the optimal revenue for patients and that, we have national solutions for the Danish health care system. We need to create the national infrastructure for e.g. biobanks and the more efficient use of the Danish health registers. If we do not develop national strategies, we will be dependent of tech giants abroad whom invests massively in digital health. Nevertheless, how do we secure that the treatments we finance, really works?

## The digital gap

*IDA Conference Center, Kalvebod Brygge 31 – 33, Copenhagen, Thursday 24<sup>th</sup> September 2020, 13.00 – 17.00*

There is a gap between the expectations to digital solutions and the facts. Neither the health educations nor the health care system is prepared for the revolution in treatments, which is unfolded just now. The digitalization and the new technological possibilities will set the culture for all specialties' and all forms of treatments. How do we get on lap in order to harvest the potential for the patients and at the same time hold their hand?

## Doctor Hansen or Doctor Google?

*Address: "Fællessalen", Christiansborg Palace, Danish Parliament, 1240 Copenhagen K, Wednesday 28<sup>th</sup> October 2020, 09.00 – 16.30*

We are standing in the middle of a health technical revolution, where genetics, data and artificial intelligence is opening new paths to rationalise and target the treatment of patients. To target the treatment to those in most need and to strengthen prevention without sickening the entire population. With excellent registers and organisation of health care system, Denmark has a golden opportunity to be among the leading nationals in this development. However, it requires us to become more capable at using data; that we have legislation and regulations that can help unlock the potential of the new technologies and at the same time prevent abuse; and that we construct infrastructure and education in health care on a level that can match this challenge. Are we ready for that?