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Managing Data Protection and Cybersecurity in healthcare



Structure of the Danish healthcare sector

- The Danish public health insurance gives everybody in Denmark an equal and free access to health services
- Denmark is divided into 5 regions and 98 municipalities

The 5 regions are responsible for:

- The provision of hospital services
- Psychiatric services
- General practitioners and specialists

The 98 municipalities are responsible for:

- Home nursing
- Public health
- School health services and child dental treatment
- Prevention and rehabilitation
- Elderly care

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The state is responsible for:

- The state holds the overall regulatory and supervisory functions in health and elderly care



General data protection regulation (GDPR)

- Data-driven health care has to go hand-in-hand with privacy
- Trust and transparency are crucial



Challenges - GDPR

- Predictive medicine and prevention – at what point are we actually treating the patient ?
- Value-based healthcare – in many cases we need outcome data years after treatment to evaluate results of a specific treatment
- Consent and transparency - impact on data quality and completeness ?



Cybersecurity in healthcare

- Protection against cyber attacks is a challenge for the entire healthcare sector (and the entire society)
- Better cooperation between all sectors (state, regions and municipalities) is important to prevent attacks
- Danish context: New National Cyber and Information Security Strategy in March 2018 (expected) – the health care sector is identified as having critical importance
- Implementation of EU directive on the security of Networks and Information Systems (NIS Directive)



Challenges - cybersecurity

- Cybersecurity and protection against cyber crime is expensive and difficult to demonstrate value of additional investments - when are investments sufficient?
- Threats are constantly changing
- Health care professionals need access to data



Thank you for your attention

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