

Danish Healthcare: Perspectives on innovation The Healthcare and future technologies in primary care



Ida Hvitved

Chief Advisor, Healthcare DENMARK

Healthcare DENMARK

The Danish healthcare system

Basic features



Universal coverage



Free & equal access



Financed by general taxes



A high degree of decentralization

Who is responsible?

Nationally – Ministry of the Interior and Health

 Legislation, policies, national goals, structural planning

Regionally – 5 regions

Hospitals, psychiatry, general practitioners, specialists

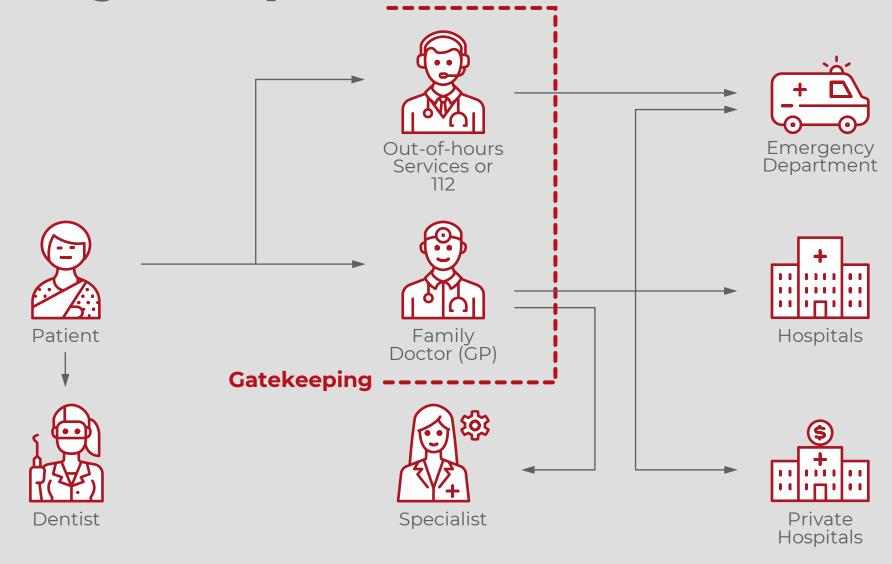
Locally – 98 municipalities

 Prevention, elderly homes, home nursing, rehabilitation



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The GP is the gatekeeper

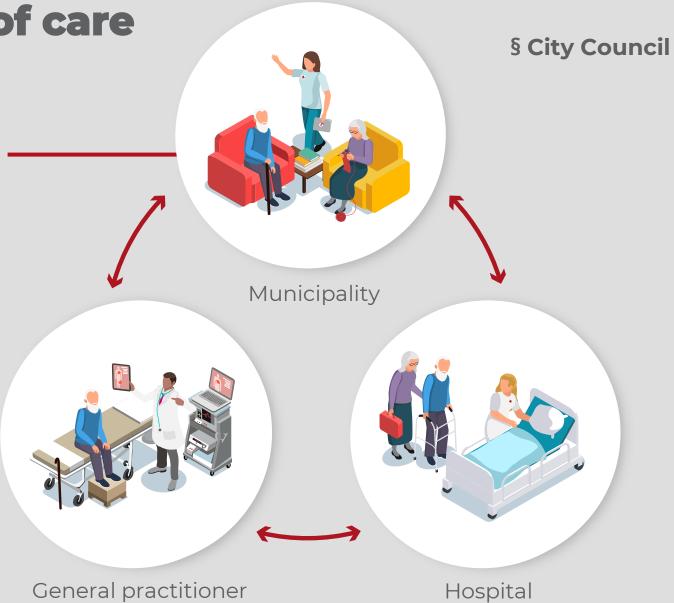




Continuity of care

Responsibilities:

- Prevention
- Rehabilitation
- Elderly care



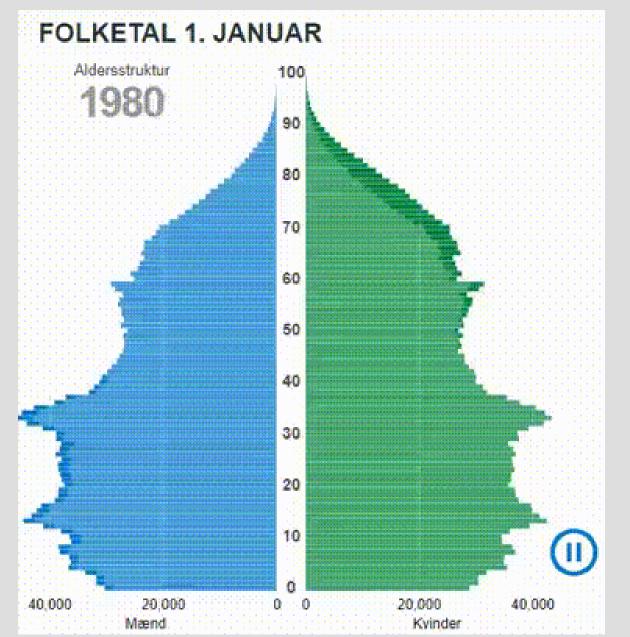
§ Regional Council



Our burning platform

Double demographic pressure

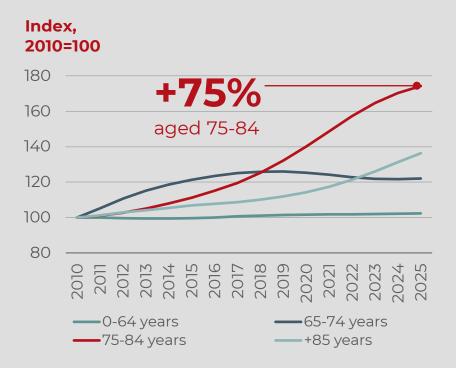
- Growing elderly population
- Decline in young people entering the labour market



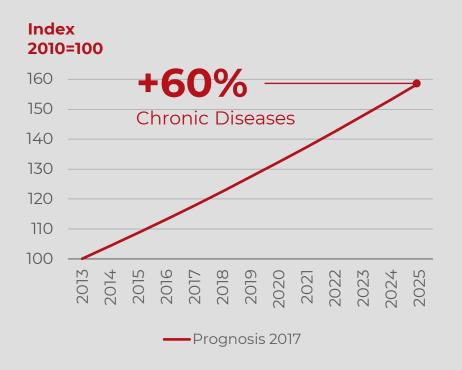


Our burning platform

Population is getting older



More people suffer from chronic diseases



SØNDAG DEN 22. JANUAR 2023 | JP.DK | KR. 49,00









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INDLAND,



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I to år boede Mogens Palle på sofaen hjemme hos sin datter, Bettina Palle, der nægtede at sende sin kræftsyge far på plejehjem. Han fortjente at have sin familie tæt på til det sidste.



finanspolitik **den russiske økonon** men faldende indtægter begynder at true landet på pengepungen. INTERNATIONAL, side 14-15

I foråret reddede en konservativ

Ifølge en sundhedsprofessor er netop akutlægebilerne en kompensation for nedlagte sygehuse og længere vei til hurtig hiælp for borgere i vderområder. INDLAND, side 6-7

Ambulancer

og akutlæge-biler holder

i stigende

grad stille

Flere regioner melder om store problemer med at bemande akut-

lægebiler og ambulancer. De tyndt

befolkede områder er hårdest ramt.

I Lemvig var akutlægebilen sidste år

ude af drift i knap 14 pct. af tiden.

Fogh vil lære af sine feil Tidligere statsminister Anders Fogh Rasmussen (V) ser i et stort interview tilbage og erkender fejl,

der er begået undervejs. INDBLIK, side 8-11

Op

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Personal patiente Sundhed

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Internet

psykolog

psykiatr















Current state of the elderly sector

- Care homes as mini hospitals
 - 1/4 dies within 1 year!
 - 80% have more than 5 concomitant diseases!
- 3,500 temporary post-hospital beds
 - In practice they function as long-term medical beds!
- When hospitals are under pressure, tasks are pushed out to the municipalities faster and unplanned
 - Patient safety is threatened
- Primary sector lacks workforce in the same way hospitals do







Long term solution – Healthcare reform (2022)

- Resilience
 - larger workforce
- Prevention and health promotion
 - to prevent or postpone citizen's needs for treatment and care
- Proximity
 - treat more people in, or close to their own homes





What are the solutions?

- Acute plan to the hospitals
 - Reduce waiting lists
 - Recruiting and retaining nurses, assistants and therapists



- Reinforce the challenges in the municipalities
 - Highlights the need for innovative solutions that supports new workflows



Medical and health Technology



- Technology, devices, and equipment to diagnose, monitor, treat, and manage medical conditions and diseases.
- The goal is to improve patient outcomes, increase efficiency in healthcare delivery, and enhance the overall quality of care.





Technologies as a relief to a healthcare system under pressure?

Electronic Health Records

- Quick and easy access to information
- Reducing risk of errors

Telemedicine

- Video conferences
- Increase accessibility to healthcare services





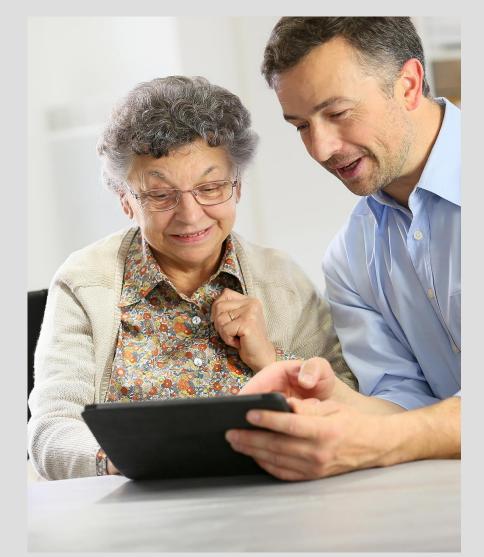
Technologies as a relief to a healthcare system under pressure?

Patient Portals

- App's with acces to own health information
- Empower patients to be an active part

Patient Reported Outcome

- Monitor patients with chronic conditions
- Stratify patients who needs assessment of a doctor





Assistive Technologies in elderly care

- Improve quality of life
- Independent living
- Support caregivers (shortage of staff)

Examples:

- Medication management systems
- Fall detection and prevention systems
- Personal emergency response systems (incl. wearable device)
- Screen visits in home care





Home care - now and in the future

Telemedicine

 Access specialists for district nurses

Wearable technology

 Alert caregivers if there are any concerning changes.

Smart homes

 Sensors to detect falls and alert caregivers

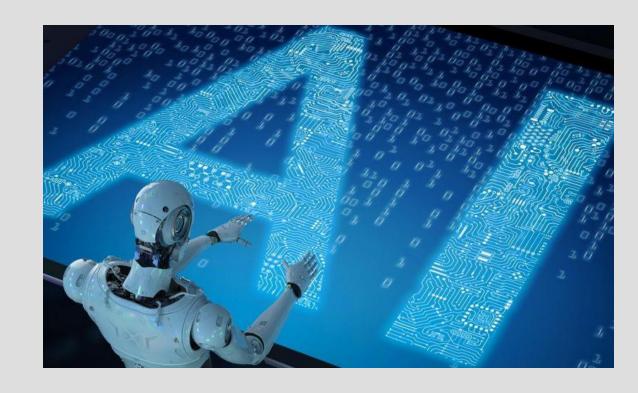


Home care - now and in the future



Robotics

- Medication management
- companionship
- Virtual reality
 - entertainment and socialization
- Artificial Intelligence (AI)
 - Expanded recent years
 - Technologies with build-in Al



Innovation



- Mix of public and private innovation
 - Primarily publicly funded
 - Developmen health record

health record Challenge: Knowledge sharing!

- Life Science Strategy
 - Better use of health data
 - Funds dedicated to innovative procurement



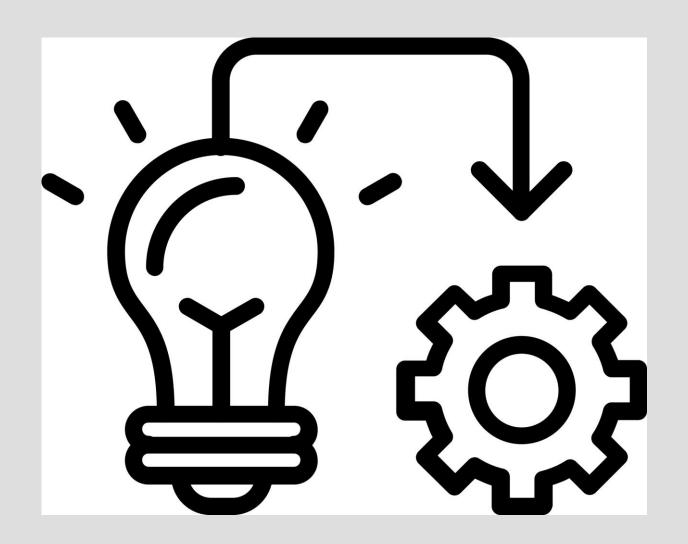
Implementation and workflows



- Challenges in implementation are highly underestimated
- New way of delivering a professional service or treatment

Why is that a challenge?

- Professional bureaucracy
- Professional authority and autonomy



Digital health literacy



Digital literacy:

"The ability to use information and communication technologies to find, evaluate, create, and communicate information, requiring both cognitive and technical skills"

Health literacy:

"The ability to obtain, read, understand, and use health-care information to make appropriate/informed health decisions"

Digital health literacy





- The technologies require new forms of collaboration between patients and staff.
- We have very little knowledge about the level of digital health literacy in Denmark
 - For healthcare staff?
 - For citizens/patients?
- Increasing health inequalities
 - how we can support those with few skills to use health technologies?
- We need to have a strong focus on that, if we want to harvest the the advantages of the new technological solutions



Does digitalisation or AI in itself create ethical issues?

- The "none-digital" citizen/patient
- Do I have the right to privacy?
- Do I have the right behaviour to receive healthcare?
- Can the computer decide the best treatment for me?

 Are we ready to disrupt the way we deliver healthcare?



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