

Interoperability

The ability to share patient information across organisational boundaries

Kilde: Advisory Board, Expert Insight | May 09, 2016

Hvilken information?

Hvordan sikrer vi relevansen?

I hvilket format?

Mellem hvem?

Hvem betaler?

Hvad må vi dele?

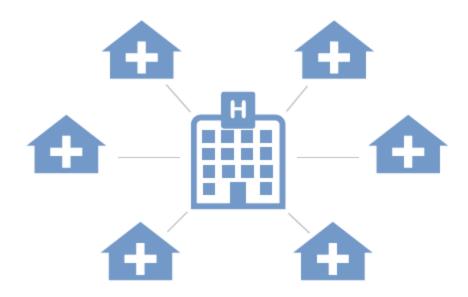
Den integrerede kliniske arbejdsplads



- Pipaluk
 - Et scenarie med muligheder
 - Journal
 - Videoopkobling
 - Fjerndiagnostisering
 - Kommunikation via satellit
 - Device integration

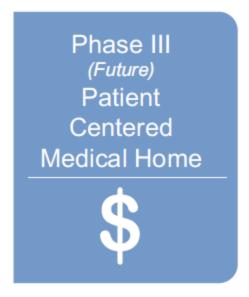
Evolution of Healthcare

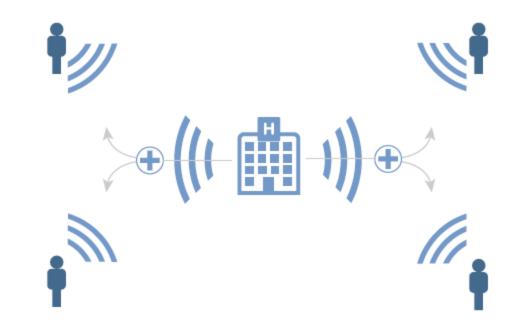




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Evolution of Healthcare





Value Based Health Care Delivery

Value= Health outcomes that matters to patients

Costs of delivering the outcomes

"Value must be measured for the overall care of a patient's medical condition over the cycle of care

 not for hospitals, specialties, episodes, or Interventions"
 Professor Michael E. Porter



An open domain-driven platform for developing flexible e-health systems

What to expect...

National initiatives – Increased funding

- Semantic interoperability
- PHR & Patient engagement
- Clinical decision support







An App Platform for Healthcare

SNOMED CT

The Global Language of Healthcare







- Disruptive technologies
 - Patient driven demand
 - Eco system of contributing apps









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SWOT

Styrkerne

- Vi har løsningerne
- Vi har beviser for at det betaler sig
- Vi ved hvad vi skal fokusere på (men gør vi det?)

Svagheder

- Tager tid
- Kræver indsigt og vilje
- Kræver tværsektorielle aftaler
- Hvem betaler og hvem høster?

Mulighederne

- Et sammenhængende sundhedsvæsen
- Dele den rigtige information I den rigtige form på ét sted
- Apps, Devices, personlige journaler...

Trusler

- Lokale løsninger underminerer
- Apps, Devices, personlige journaler....
- Overflow
- Sektorernes barrierer
- Politisk modvilje (populisme)
- Lovgivningen

Study on the economic impact of interoperable electronic health records and ePrescription in Europe

(EHR IMPACT European Commission, DG INFSO & Media)

- The socio-economic impact of the regional integrated EHR and ePrescribing system in Kronoberg, Sweden (delstudie)
- "Quality indicators include well informed carers who are facilitated in providing continuity of care and increases patient safety. Improved patient safety in this specific case refers to a reduced risk of adverse events due to lack of information at the point and time of care."
- "Because of "Link", care planning is more precise."
 - direkte adgang til relevante journaloptegnelser fra primær sektor

One Patient – One Record – Anytime – Anywhere



Cambio COSMIC:

- Main application and platform for process support
- Common repository for all healthcare information

Integrated with:

- Clinical care support system
- Medical equipment
- Digital archives and PACS
- Decision support
- Devices
- Apps

County of Kronoberg

>7% of the working people in Kronoberg are COSMIC users.



Care provider portal

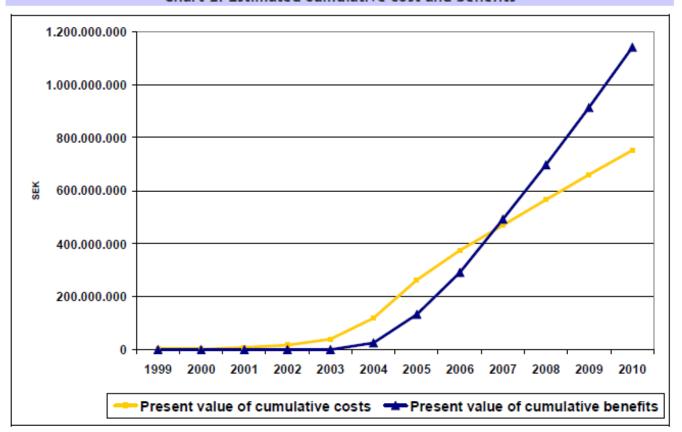
- Wireless Network in hospitals
- VPN over Mobile network
- VPN over Internet
- Network of Municipalities
- National Network for Healthcare in Sweden
- >95 % of the population in Kronoberg have an EHR record in COSMIC





Gevinsterne er tydelige





At year 8, the annual net benefit ratio to costs turns positive and rises continuously to +1.46 at year 12. The cumulative ratio increases steadily, reaching at +0.52. This means that for every SEK100 worth of negative impact, there are SEK152 worth of positive impact

Source: EHR IMPACT study

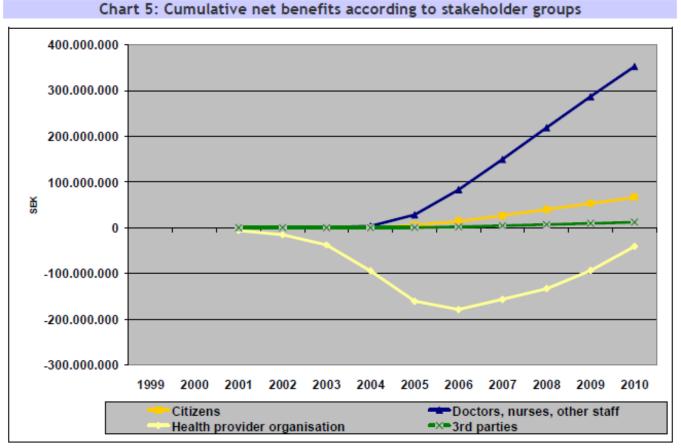
Hvem skal betale for at alle andre får fordelene?

Chart 4: Costs and benefits per stakeholder group **Benefits** Costs 1% 7% 1% 11% 38% 54% 88% Citizens Doctors, nurses, other staff Organisation 3rd parties

Source: EHR IMPACT study

Fordelene er målbare og tydelige





- Værdien er fortsat stigende, men hvornår fader kurven?
- Nyere tal indikerer at citizens stiger mere

Source: EHR IMPACT study

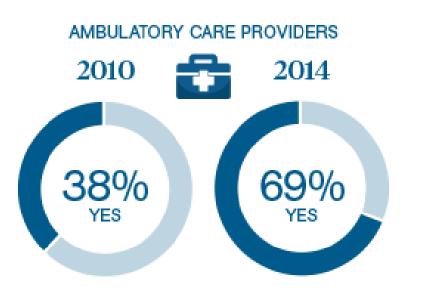
Hvor ligger gevinsterne?

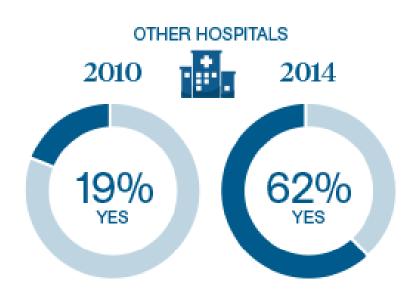
By its design, the system ensures interoperability as one of its primary purposes. The strategy to implement one system across all healthcare facilities was driven by the realisation that interoperability is a critical factor to providing value added through EHRs and thus for the success of the initiative.

These strategic thoughts have been proven accurate by experience. The benefits identified in the analysis rely to a large extent on information being available regardless of the place of creation and the place of access. Local IT systems lacking interoperability would miss these substantial gains. An exception proves the point - lacking interoperability between some nursing home systems and COSMIC lead to time being spent on manual re-entry of data. Absent interoperability on a larger scale may have an impact on costs, which can threaten the overall performance of the initiative.

I den rigtige retning

Does your hospital electronically exchange patient information with health care providers outside of your health care organization?

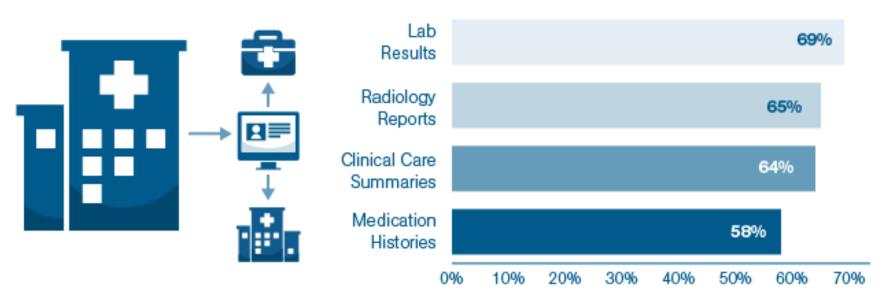




Source: HHS Office of the National Coordinator for Health Information Technology

De gode delinger

What types of patient information does your hospital electronically exchange with ambulatory care providers and other hospitals outside of your health care organization currently?



Source: HHS Office of the National Coordinator for Health Information Technology

Men hvordan håndterer vi?

Patientens egen journal

- Den informerede patient vil ege egne data
 - Enten leverer vi varen ellers?

• Multi system landskaber

- Vi kan integrere, men hvor går grænsen?
 - Sikkerhed, understøttelse af komplekse processer, videreudvikling

Health Apps

 Hvilke indgår i det samlede system og hvilke er støj?

Selvmonitorering

 Hvem, hvordan og hvad gør vi med data?