



HEALTHCARE INNOVATIONS FOR A BETTER TOMORROW

E-health – The Danish Experience

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STOP TALKING. START CURING.

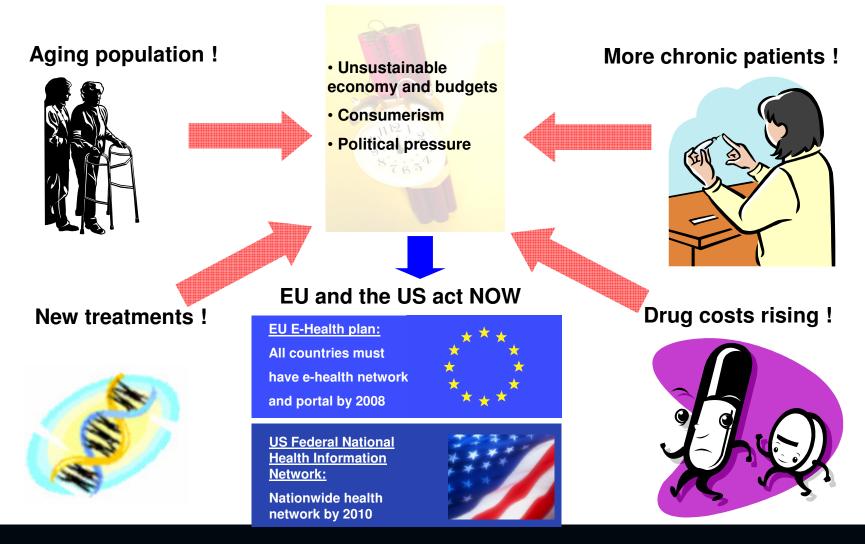


Agenda

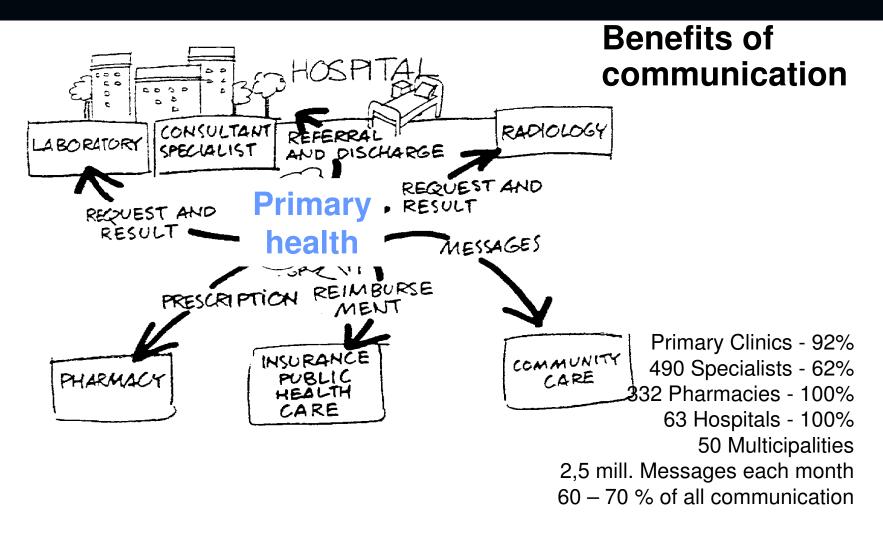
E-health – the Danish example



Healthcare around the world face challenges which will make healthcare in the future unsustainable. EU and the U.S. act NOW



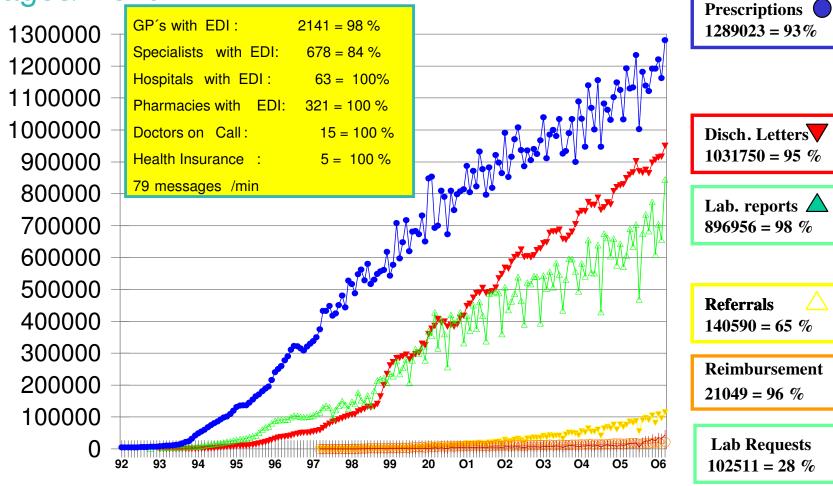




50 minutes saved per day in GP practice Telephone call to hospitals reduced with 66% 2,3 € saved per message – 60 million /year



MedCom Messages/Month



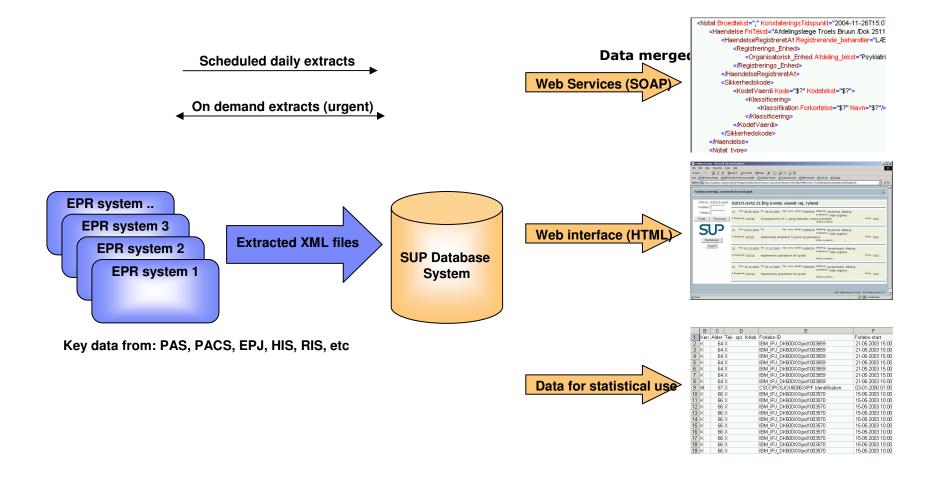
HEALTHCARE INNOVATIONS FOR A BETTER TOMORROW

Agenda

E-health – the Danish example
SUP (Standardised Use of Patient records)

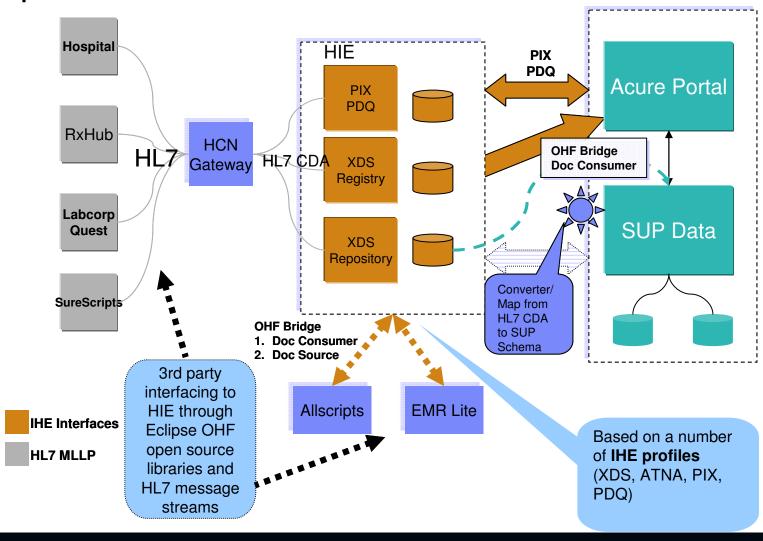


The actual implementation of SUP is flexible and scalable





Adaption to international standards





Agenda

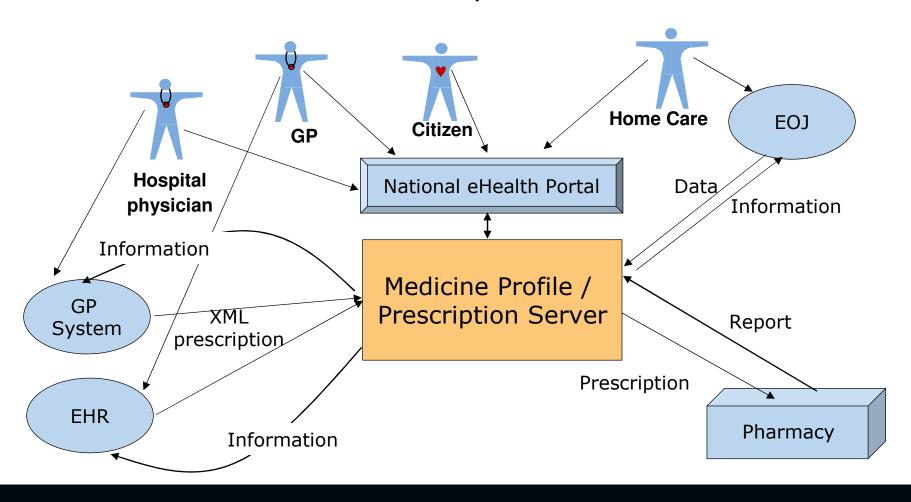
E-health – the Danish example

SUP (Standardised Use of Patient records)

ePrescription and Personal Electronic Medicine Profile



Medicine Profile and Prescription Server





Prescription Server

Improved communication between physicians, patients and home care staff

Better and more correct medication

More precise overview of medicine use – also over time

Knowledge collection in one place

Information follows the patient

Better monitoring and follow-up

And a very positive business case:

Prescription server savings of minimum 80.000 Euro per 100.000 prescriptions

Home care savings of 20 mEuro in Denmark



Electronic Medicine Profile

Citizen's and GPs access through the internet to information regarding physician ordinated drugs given to the individual

The purpose of PEM is to increase the quality of medical treatment of patients by preventing:

Incorrect medication

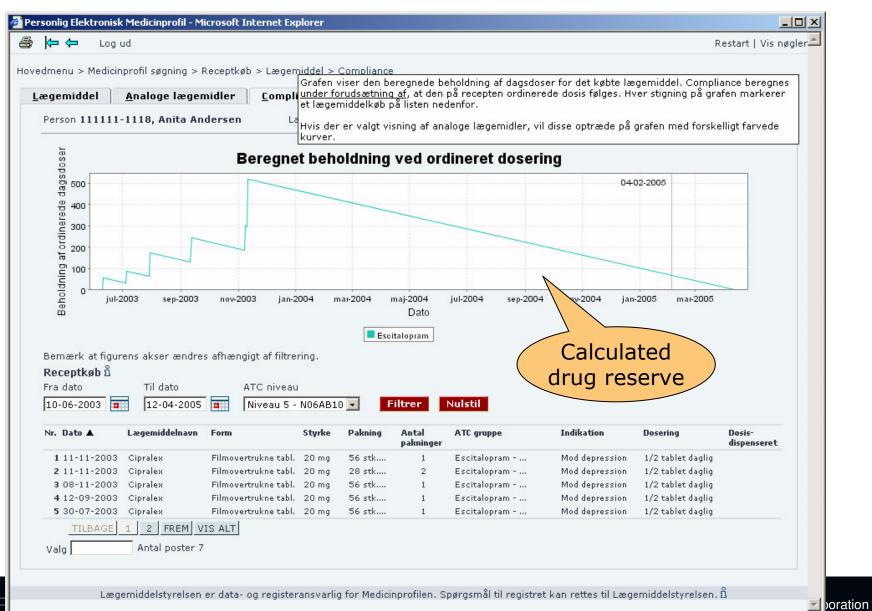
Too high drug doses

Combination of drugs that do not work effectively when used together



Local intranet

HEALTHCARE INCOMPINE THE METERS SELECTED



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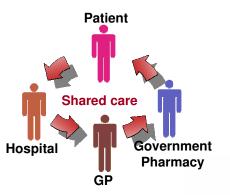


Integration via the e-health portal (sundhed.dk)



The healthcare challenge

The ehealth approach



Co-operation

- eReferrals
- eDischarges
- Access to HR
- Work on same HR

Optimize work routines

- eBooking
- eConsultation
- Healthcare Yellow pages
- Support choice of healthcare organization
- eRenewal of medicine prescription
- Update own information

Use the patients capacity

- Shared Care
- Track own medical history
- Track own medicine use
- Treatment information

More patients

Fewer physicians

Higher healthcare costs

Prevent illness

- Disease Information
- Medicine information

The right treatment

- Decision support
- Medical history
- Adverse drug reaction
- CAVE Registration
- Access lab results

Take action in time

- Track medicine use
- Test yourself



Agenda

E-health – the Danish example

SUP (Standardised Use of Patient records)

ePrescription

Personal Electronic Medicine Profile

DiaLog

Danish National eHealth Portal

How to approach the project

Patients rights

How to get started?

A strong commitment

Building the eHealth portal – focusing on benefits

Use already implemented communication standards and organizations

Get started as soon as possible and benefit from eHealth



Strong commitment from stakeholders

sundhed,dk

Owners: the complete Danish health sector

Danish Association of Regions

Ministry of Health

Copenhagen Municipal Authority

Copenhagen Hospital Cooperation

Danish Medicine Agency

Frederiksberg Municipal Authority

National Board of Health

General Practitioners
Organisation

Danish Pharmaceutical Association



Benefits for regional/national institutions

Efficient communication => reduced health care costs

Shared data => reduced health care costs

Improved treatment and quality of life for citizens

Necessary transformation of health care sector to secure potentials of personalized health care

The access to data gives the possibility to monitor the outcome of treatments and optimize the quality of guidelines and workflows - e.g. analyze patterns of medicine prescription to optimize guidelines and reduce costs

Access to existing data, e.g. lab results and EPR prevent unnecessary double tests

The possibility to implement more effective workflows and planning of treatments

The possibility to communicate on-line with specialists – e.g. on X-rays – will reduce the need to have local specialists in every hospital



Benefits for Medical Professionals

Cost reduction – no manual handling of communication

Patient information automatically imported to their EPR

Data entered only once

On demand access to complete patient information

Anywhere 24/7 access to the information

Improve patient service and treatment

Improved decision support

Access to updated guidelines from regional and national authorities

Communication with other healthcare professionals and researchers

Communication with patients

Reuse of existing data

Clinical pathways to support clinical treatment

Access to knowledge and researching result



Benefits for Patients (citizens)

Improved quality in treatment

Improved quality of service

Influence on and detailed knowledge of own treatment

Shared care

Coherent pathways

Improved quality of life

Knowledge of public records

Information and knowledge of treatments and medications

Support the free choice of healthcare professionals

One access point to health care sector

Secure communication and exchange of documents with entire health care community

24/7 access to the health care sector, booking, ER-doctors, home care etc.



Benefits for Researchers

Access to study data (de-identified patient data)

Push/pull for research information

Access to knowledge and researching result from other Biobanks

Improved opportunities for increasing time-to-market for new treatments

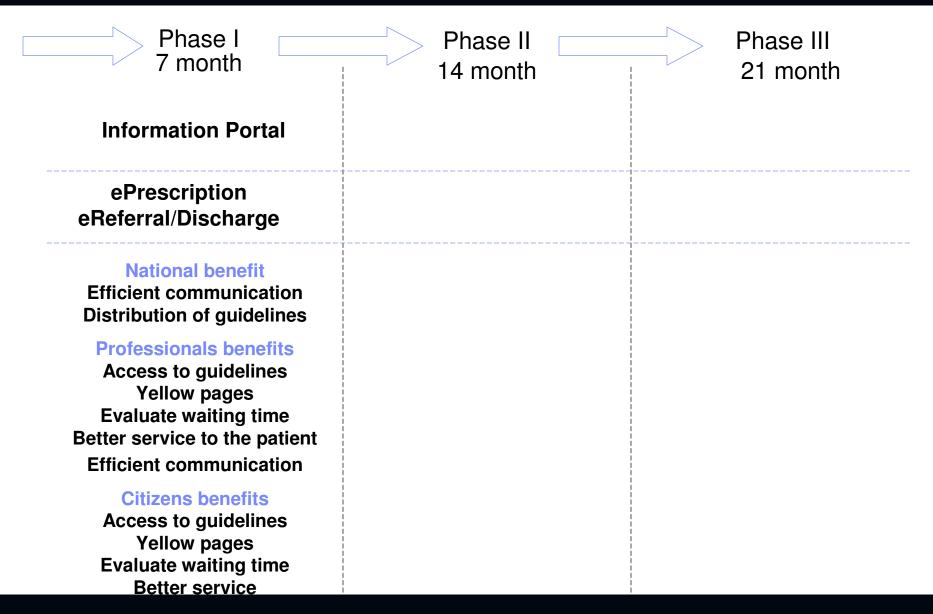
Secure communication

Community and Communication with other healthcare professionals and researchers

Single point of access to other parts of the health care sector

24/7 access to the information









Phase II 14 month

Phase III 21 month

Information Portal

ePrescription eReferral/Discharge

National benefit

Efficient communication Distribution of guidelines

Professionals benefits

Access to guidelines
Yellow pages
Evaluate waiting time
Better service to the patient
Efficient communication

Citizens benefits

Access to guidelines
Yellow pages
Evaluate waiting time
Better service

Collaboration Portal

eBooking, Medicine Profile, eEHR(SUP), LabResult....

National benefit

Reduce double tests
Improve quality
Information entered only once

Professionals benefits

Access patient information Improve quality & service Comm. with patients and proff.

Citizens benefits

24/7 anywhere access to the health sector and own data



Phase I 7 month

Phase II 14 month

Phase III 21 month

Information Portal

Collaboration Portal

Full Portal, Full communication

ePrescription eReferral/Discharge

eBooking, Medicine Profile, eEHR(SUP), LabResult....

Work on same HR

National benefit

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Professionals benefits

Access to guidelines
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Better service

National benefit

Reduce double tests
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Information entered only once

Professionals benefits

Access patient information Improve quality & service Comm. with patients and proff.

Citizens benefits

24/7 anywhere access to the health sector and own data

National benefit

Reduce need for local specialist
Monitor and optimize
Reduce mistreatment

Professionals benefits

Full medical history of patient Anywhere access Pathway support

Citizens benefits

Influence on own treatment
Shared care
Pathway support

Questions?



Please Do Not Forget 2 Important Things ©

- Please Turn In Your IBM Feedback Forms
- 2. Visit IBM Stand CE40, Concourse Area, Outside Hall 7