Danish eHealth Developments and EU

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Denmark

- 5.45 mil. citizens
- 43.000 km²
- Highest point of elevation 171 m!
- Unique personal identifier
- Extensive access to internet
Danish Health Sector

5 Regions: Health Care
98 Municipalities: Home care
- 60 Public hospitals
- 10 Private hospitals (small)
- 2000 GP clinics
- 1100 Specialists
- 330 Pharmacies

Largely Tax paid
Co-payment for Dentistry and medicines
IT Market in Danish Health

- 12 Hospital PAS/EPR vendors
- 12 Primary EPR vendors
- 11 Laboratory vendors
- 8 X-ray vendors
- 5 Specialist EPR vendors
- 4 Pharmacy vendors

60 IT vendors with 100 IT systems
National ICT Initiatives

- National Patient Registry (1977)
- MedCom (1994)
- National Health Portal (2002)
- National eRecord (2006)
- Telemedicine (2000)
- SNOMED (2007)
**MedCom**

**Area of expertise:**
- Making IT projects “cross sector borders”.
- Using standardized solutions.
- Focus on large-scale, national implementation.

**Consists of:**
- Ministry of Health (chair)
- Danish Regions (co-chair)
- Association of Local Authorities
- Ministry of Social Affairs
- National Board of Health
- Danish Doctors
- Danish Pharmacies

- and they also pay!
1. **MedCom makes standard-solution**
   In cooperation with users, IT vendors and health authorities.

2. **Validate in pilots**
   The solutions are integrated by participating SW vendors in their IT systems.

3. **Dissemination**
   MedCom support users and vendors. SW vendors sell developed solution to all their customers.
MedCom 1994 - 2007

1994 – 2002
- Primary Care - the six flows

2002 – 2007
- Internet Web applications
But also communication flows between departments, sectors and institutions.
MedCom eMessages per month

ePrescriptions
1139992 = 81%

eDischarge
826258 = 84%

eLab. reports
653974 = 97%

eReferrals
64845 = 45%

eReimburse
15637 = 66%
2002 - 2005
MedCom IV: Intenet and EHR communication

- Establish a secure IP-based network
- Large scale communication project using the network
- XML standards for communication with Electronic Healthcare Records in hospital
- SUP – Web access to information in existing hospital systems
- Communication between Homecare and Hospitals

Budget 52 mill. Dkr. = 6.9 mill. €
The connection agreement system

- Eliminates the need for administering a huge number of VPN tunnels
- Establishes documentation of who ordered what connection and how long it is supposed to exist
- Simplifies security administration
- Is a simple and inexpensive solution to a problem that is common to all nation-wide health care systems
Report on identified legal issues of the Baltic eHealth project

[Signature]
On behalf of the Baltic eHealth Legal Group
National and regional

4c. Portal i portalen
– ubegrænset struktur og indhold
MedCom and www.sundhed.dk
Danish Patient Registry

Danish eHealth and EU 28 Sept 07
Medication Profile
2d. Søgeresultat for Lab-svar
Select note
The EU Dilemma

On one side:
- The EU treaty claims free movement of people, goods, labour, and services

On the other side:
- Health Care Provision is not in the Treaty
Data Security, Ethical, Legal Considerations

- Council of Europe- Rec(2004)17
- EU Directive on Data Protection 95/46
- OECD, WHO
- Recommendations on Use of Internet
- Infrastructure – Connectivity
- Adherence to Standards
EU Commission’s Initiatives

- Follow-up the high reflection process on patient mobility.. Com(2004)301
- Modernizing social protection for the development… Com(2004)304
EU Interoperability

The "EU i2010 Programme"
- e-Inclusion
- Interoperability via:
  - Patient Summary
  - eMedication and Prescription
  - Emergency Data
- ID-Management
Lessons Learned

- Implementations need to be initiated
- Realistic Budget including training
- Change Management
- User Involvement
- No isolated information islands
- Follow Standards
eHealth Prerequisites

- Enabling environment - policies and strategies
- Infrastructure - access to ICT
- Content - access to information and knowledge
- Capacity - human resources knowledge and skills. Cultural and linguistic diversity, and cultural identity
- National centres for eHealth
- eHealth systems and services
Main barriers for eHealth

Lack of:

- Physical Infrastructure
- Political Will
- Interoperability
- Needed Services
Any questions?

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