e-Health in practice: Experiences with cross sector cooperation between health care providers based on Soarian Integrated Care

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Agenda

- Vision
- eHealth Solution
- Projects
- Lessons learned
Vision Becomes Reality: Optimization within Hospital is Reaching a “Local” Limit

- **Continuum of care**
  Patients follow an evidence-based care path

- **People and processes**
  Cross-departmental teams can access the EHR at any point of care

- **Software Solutions**
  Clinical documentation, modalities, and processes generate excessive amounts of data

- **Data management**
  The three areas of Siemens Healthcare IT manage and coordinate the vast amounts of data

- **Integration of information**
  Siemens Healthcare IT incorporates the information from all aspects of care and assimilates the data for ease of use
Next Step: Cross Institutional Collaboration

- Care collaboration
- Managed care
- Resource allocation
- Quality management
- Standard of Care
- Health care value chain

= Improved quality of care and lower cost
Typical Functionalities Needed for Health Information Exchanges (HIE)

- Electronic Health Record
- Task list and Notification
- Consent-Management
- Audit Trail / Reporting
- Master Patient Index (MPI)
- Electronic Referral
- Forms
- Teleradiology
- Clinical conferences
- Communication / Consultation
Projects

WebEPA* for RHÖN-KLINIKUM AG, Germany

Key Figures Rhön-Klinikum AG

- Private Hospital Chain
- Second biggest Private Hospital Chain in Germany
- 46 Hospitals
- 2 University Hospitals
- 38 outpatient medical centers
- 16,000 beds
- 2,000,000 patients
- 38,000 employees
- 2.55 BLN Euro turnover
- Listed on the German stock exchange

*WebEPA: Web based, electronic Health Record
Projects
WebEPA* for RHÖN-KLINIKUM AG, Germany

Goal
- Increase efficiency in cross-sector care and interoperability between care providers

Realization
- Connect 46 hospitals, outpatient medical centers & practitioners with access to clinical documents (PDF, DICOM, JPG, CDA...)
- WebEPA will integrate 130 information systems
- >1,000,000 patients will be registered and cleared with integrated MPI per year

Benefits
- Increased quality of care & cost reduction
- Knowledge Networking
- Helps avoid duplicate diagnostic tests
- Availability of medical special knowledge in remote regions
- Fast and reliable patient care
- Accelerates medical processes

*WebEPA: Web based, electronic Health Record
Projects
National Health Service (NHS), Scotland

Goal
- Implementation of a national public health initiative (diabetic retinopathy screening program) supported by an IT infrastructure to avoid blindness caused by diabetes

Realization
- Define processes and a quality program that can be applied to geographical areas with different resource levels
- Implement an integrated, IT-supported diabetic retinopathy management program* at 73 locations and 5 regional grading centers
- About 230,000 patients and 500 users registered (as of end of June 2008)

Benefit
- Fewer losses of sight by diabetes
Projects
University Hospital Erlangen, Germany

Participants:
- Dept. for children’s cardiology
- 15 specialists for children’s cardiology in northern Bavaria
- 20 hospitals in northern Bavaria
- Ca. 400 patients/year

Subject:
- Share all relevant patient-related data from UH Erlangen with involved partners
- Provide specialist consultation for GPs
- Share GP’s findings with UH Erlangen

Benefits
- Drastic reduction for re-admissions
- Drastic reduction in support calls from GPs
- Better quality of treatment because of more information
Lessons learned

When is eHealth most beneficial?

- There are already common processes
  - Second opinion
  - Clinical conferences
  - Managed Care
  - Regional collaboration
- Relevant information is digitally available
- Incentive to use a eHealth solution

What are the most important challenges?

- Adaptation of the existing processes to the IT
- Change organization when necessary
- Convincing medical staff of the advantages of new eHealth functionalities
- Of course interfaces!
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