

SEHR

System for Electronic Healthdata Recording

Process of Care based Information Management in Healthcare *Goals & Concept (in brief)*

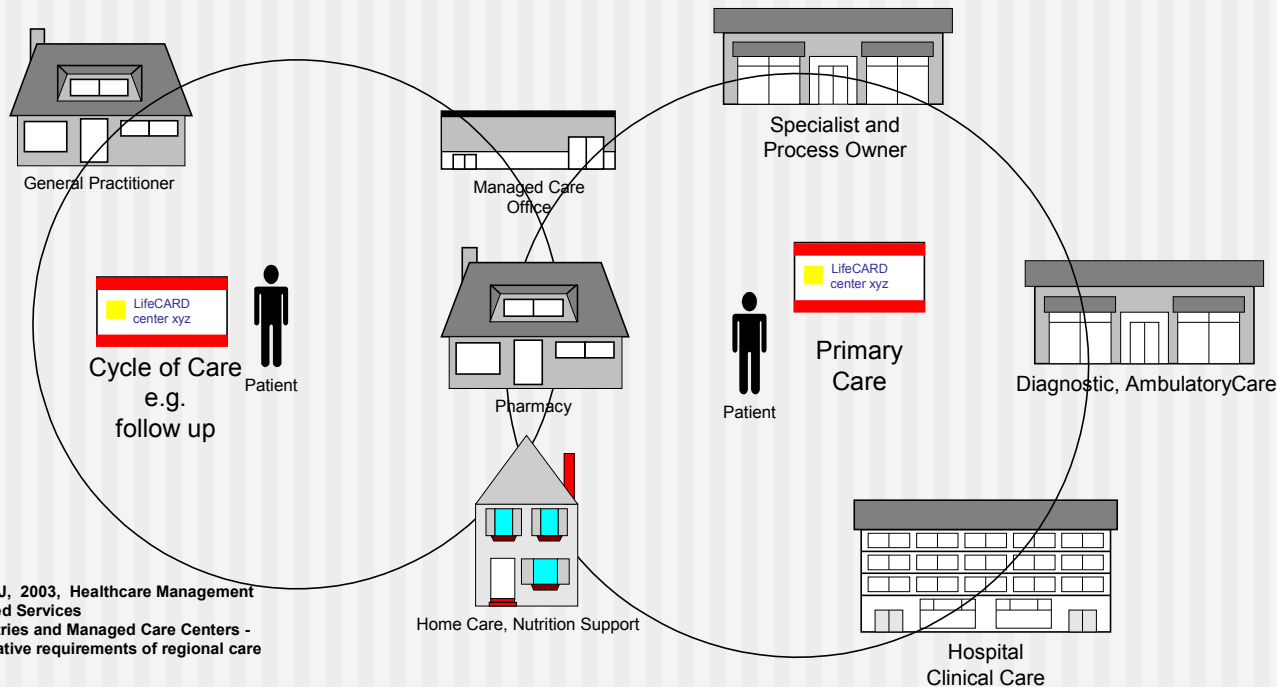
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SEHR is based on a concept of process based integrated care by
Haase, Hans-J., Germany

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Sharing the patient and his related informations like diagnostic results, case reports...

Goal#1 – Focusing on regional community in reality



Ref.: Haase, HJ, 2003, Healthcare Management
Univ. of Applied Services
Clinical Registries and Managed Care Centers -
The administrative requirements of regional care

Each regional community of facilities working together in healthcare and sharing patients should be able to present medical informations to all case-serving members

Sharing Informations about a Patient...

Goal#2:

Share informations just-in-time, standardized but simple and secure

The screenshot shows the SEHR-Systeminterface web application. The browser window title is 'SEHR-Systeminterface - Mozilla Firefox'. The address bar shows 'http://198.180.96.3:8080/sehr-ssi/NetAdmin'. The page has a sidebar menu with options like 'SEHR Startpage', 'Admin Startpage', 'Administration', 'Tomcat Manager', 'Show Serverstatus', 'Lunch GUI Application', and 'Logout'. The main content area displays 'Centers at Zone 0201010' with a table of medical centers. Below the table, there's a 'LifeCARD - Medizinische Patientenkarte' section with a form for entering patient data and a 'Login' section with fields for 'Benutzername' and 'Passwort'. The browser's status bar shows 'Lokales Intranet'.

| ID | CenterTitle | Registered | Record deactivated |
|--------|--------------------------------------|------------|-----------------------|
| 201010 | Testcenter | | |
| 406043 | Dermacenter Hannover | | |
| 406057 | Managed Care Center | | |
| 406082 | Midlands Hosp., NY | | 2004-10-04 02:21:00.0 |
| 409011 | John Hopkins Univ. | | |
| 409029 | Frederickstift Hannover | | |
| 409081 | St. Lucus Memorial Hosp., Birmingham | | |
| 409134 | St. Joseph Alabama | | |
| 409577 | West Midlife Center, Co | | 2004-10-07 07:41:00.0 |
| 409653 | HMO Kaisers Denver | | 2004-10-04 08:47:00.0 |
| 409760 | HOPA | | 2004-10-04 02:09:00.0 |
| 409830 | unknown center 2 | | 2004-10-04 12:45:00.0 |

22 items found, displaying 1 to 12. [First/Prev] 1, 2 [Next/Last]

LifeCARD - Medizinische Patientenkarte

Die Menschen im Gesundheitswesen miteinander verbinden... Informationen verfügbar machen...

Die LifeCARD ist eine funktionelle medizinische Datenkarte mit der relevante Behandlungsinformationen bei Mit- und Weiterbehandlungen sowie in Notfallsituationen verfügbar werden. Wir möchten Sie auf diesen Seiten einladen

- die [Geschichte der LifeCARD](#) kennenzulernen
- mehr über die Funktionsweise zu erfahren
- zum Thema medizinische Datenkarten eigene Beiträge zu erstellen oder [Beiträge zu kommentieren](#)

With SEHR health professionals will be able to share the patient files within a secure, non-public intranet based on the common IP technology

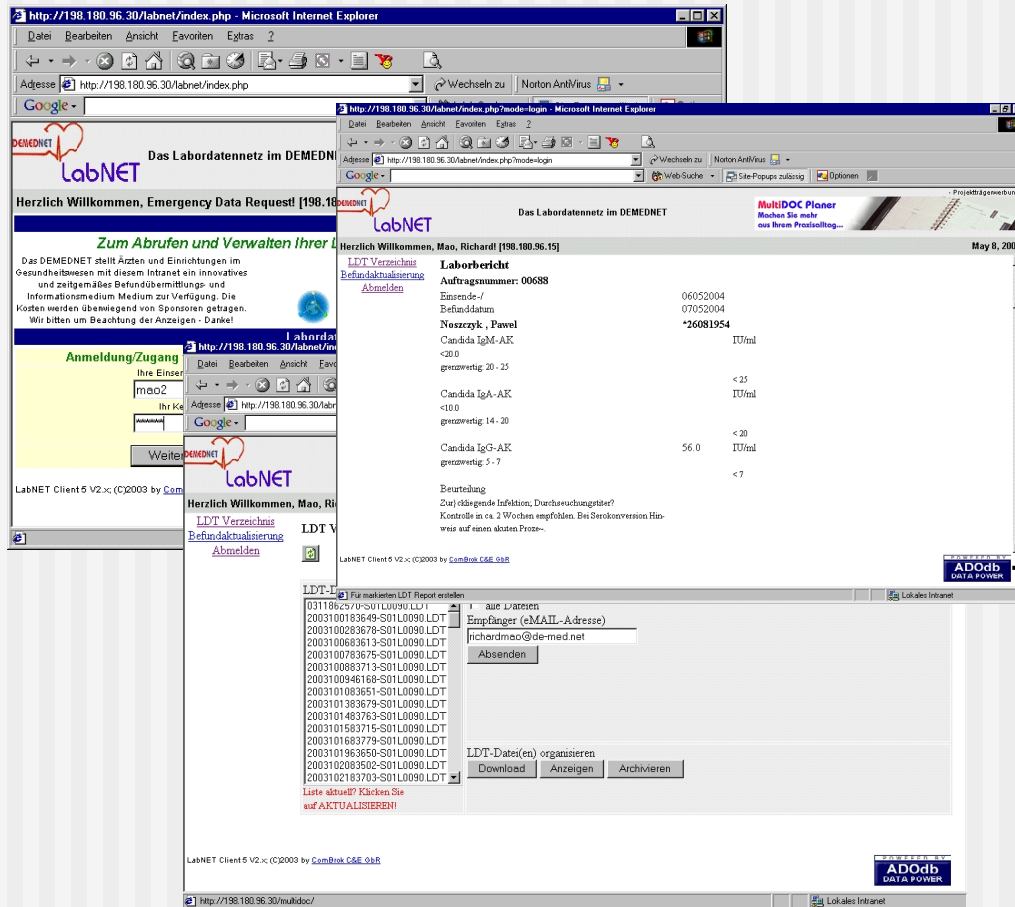
The sharing of informations is strictly case orientated

There are a lot of proprietary systems so the SEHR is encapsulating them to pass over documents simply as proprietary records but also it is possible to transfer standardized records like HL7 and GEHR (an EU initiative)

Improving and Saving Quality of Care

Goal#3:

Enable order tracking and recurrent control systems for long-term treatment, e.g. diabetic care, follow-up in cancer care



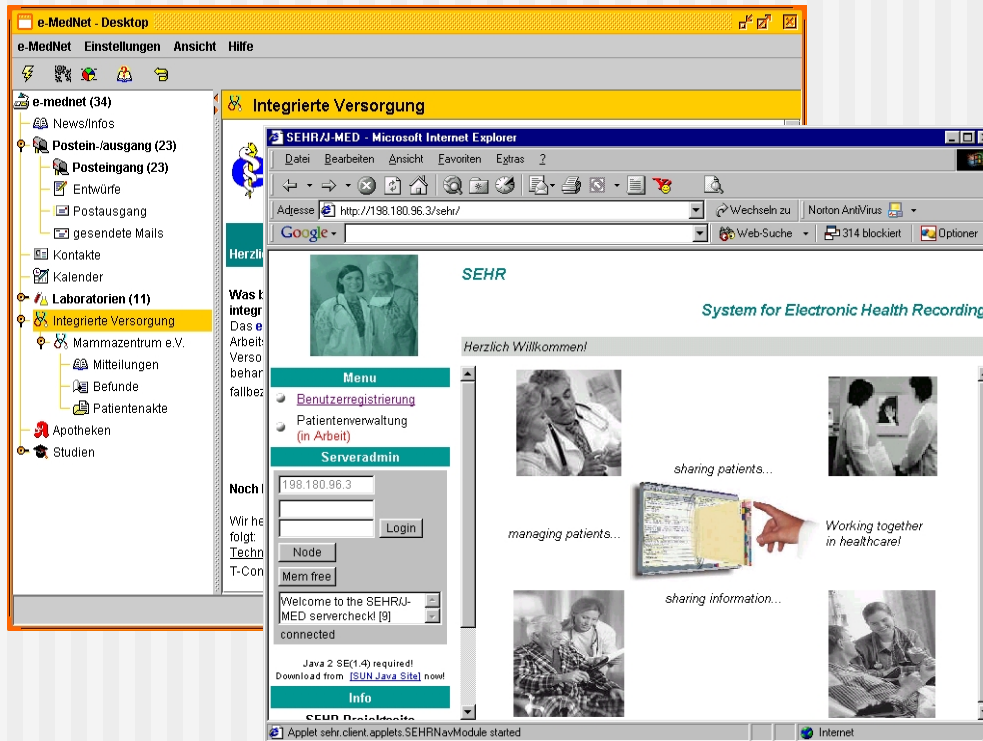
There are a lot of diagnostic related information pools in a region where professionals are working together e.g. laboratory services.

To reduce unnecessary time gaps of inactivity or to manage long-term periods of diagnostic control the SEHR concept is based on a process orientated managed care with tracking functionality

Independent, non-proprietary

Goal#4:

SEHR should be a multiplatform, OpenSource solution



The shown client in the background was exclusively developed for the project „Breastcancer-Network Hamburg“ [<http://www.brustkrebsnetz.net>] which uses the SEHR for some regional communities.

Examples of a running SEHR system:

Access by a **Java based thin client** for a network to share patients with breast cancer (A project in Hamburg, Germany) and by **WEB access as using Java Servlet Technology**

But...

How can the patient be managed by using SEHR?
What kind of informations are from interest in sharing the patient? How to collect data?

*With SEHR
managed care becomes a
virtual assistant for carrying
out the efforts of an economic
and efficient healthcare...*

Basic Steps of Implementation:

1. Analysing and definition of regional capabilities to share resources
2. Planning/Analysing of typical / commonly required pathways based on standards of disease management
3. Definition interdisziplinäre workflows for the case management
4. Start using SEHR by connecting interfaces like HL7, PDF-documents and defining handling procedures (workflows)

The result of a SEHR implementation will be an economical and quality driven infrastructure for managed care communities...

Case coordination by a Managed Care Center

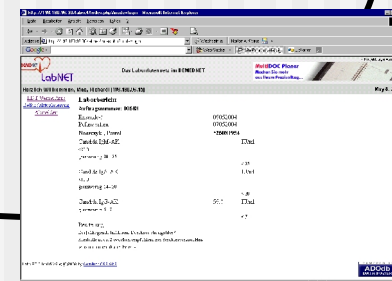
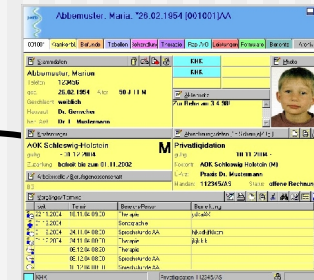
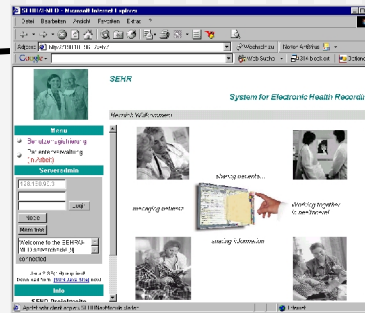
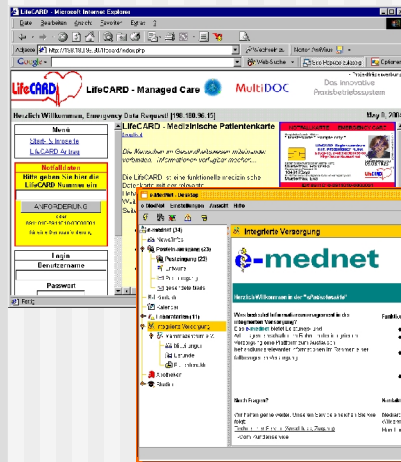
Disease Management defined by a specialist (the process owner)

Involved Homecare and Private Practitioners

interfaces e.g.
GEHR, HL7

sharing data with other systems

Getting results of a diagnostic center



Summary

SEHR is based on a concept sharing data in healthcare to keep the quality untouched but also to improve quality focusing the problems of growing costs in health care. Sharing resources and making the informations, just-in-time' reusable as required is one the main goals of SEHR.

The authors of this concept, a case orientated, process based management in a close conjunction with 'real-life' shared care of today's regional communities, started in 1989 to evaluate their idea at different pilot projects. They have setup different field trials, i.e. a documentation and resource planning (scheduling) system at a medical facility for diabetic care with >12000 continuously managed patients per year. Another facility has a throughput of > 75000 patient files since 6 yrs. working with SEHR, some of the patients are already managed in a 'follow-up' program.

For more informations contact the authors by mail via
IFETH – Institute for Economics&Telematics in Healthcare
Birmingham, U.K.
info@ifeth.org.uk