Altru Health System

Electronic Medical Record

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Countdown to the
All-Electronic Medical Record

2008
Layers are “mostly” sequential

Information Technology Pyramid

System Availability

1996: 97.40% - 227 hours; 2002: 99.90% - 8 hours;
1997: 99.65% - 31 hours; 2003: 99.82% - 16 hours;
1998: 99.85% - 12 hours; 2004: 99.81% - 16.8 hours
1999: 99.80% - 16 hours; 2005: 99.91% - 6 hours
2000: 99.95% - 4.3 hours; 2006: 99.83% - 14.9 hours
2001: 99.82% - 16 hours;
Providers “helped themselves”
- 116,000 times in 2000
- 164,000 times in 2001
- 300,000 times in 2002
- 625,000 times in 2003
- 930,000 times in 2004
- 1,450,000 times in 2005
- 1,949,873 times in 2006

Everyone “helped themselves”
- 700,000 times in 2000
- 1,300,000 times in 2001
- 2,000,000 times in 2002
- 3,000,000 times in 2003
- 3,700,000 times in 2004
- 4,800,000 times in 2005
- 6,189,747 times in 2006
Interaction

• Decision Support
  – Medication Checking
  – Diagnostic Tools

• Order Entry

• Flow sheets & Documentation

100% of Altru Providers sign their reports electronically.

Physicians are using CPOE

Ambulatory Prescription Writing is being used by providers

Administration of Inpatient Meds are being charted electronically

Physicians are signing verbal orders electronically
Information Technology Strategic Plan

**THE VISION**

An integrated information system that supports all clinical and business processes within the Altru Health System and the region.

Definitions – What is what?
EMR and EHR

- Many people in the US healthcare industry, our government, and the press use the terms *electronic medical record (EMR)* and *electronic health record (EHR)* interchangeably.

- These terms describe completely different concepts, both of which are crucial to the success of local, regional, and national goals to improve patient safety, improve the quality and efficiency of patient care, and reduce healthcare delivery costs.

How they relate?

- EHRs are dependent on EMRs being in place, and EMRs will never reach their full potential without interoperable EHRs in place.

- It's important to understand the differences, and to reduce confusion in the market.
So what are the differences?

• The EMR is the legal record created in hospitals and ambulatory environments that is the source of data for the EHR.

• The EHR represents the ability to easily share medical information among stakeholders and to have a patient’s information follow him or her through the various modalities of care engaged by that individual. Stakeholders are composed of patients/consumers, healthcare providers, employers, and/or payers/insurers, including the government.

EMR Definition – Altru IT Strategic Plan

• An electronic patient record (Computer-Based Patient Record) that resides in a system designed to support users (patients and caregivers) by providing accessibility to complete and accurate data, alerts, reminders, clinical decision support systems, links to medical knowledge, and other aids through internal systems and the internet. An electronic method of connecting caregivers, providers and patients to enable the rapid transfer of information within the region and provide access to national and international clinical and business databases.
EMR/HER Relationship

From Hybrid Medical Record to EMR

Establish EMR definition and identify EMR Elements:

Develop Matrix and "Blue Print" that will guide Altius Health System towards successful EMR implementation

EMR Considerations
EMR-Past, Present and Future

<table>
<thead>
<tr>
<th>EMR Elements</th>
<th>Media Type</th>
<th>Storage</th>
<th>Printing</th>
<th>Electronic</th>
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<tr>
<td>Admission Info</td>
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<tr>
<td>Image Storage</td>
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</tbody>
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**Past**: Paper Medical Record

**Present**: Hybrid Medical Record

**Future**: Electronic Medical Record

The paper medical record contains all the information needed for paper documents, and patients are provided with electronic copies. The equivalent of the paper chart is available, allowing clinicians to access patient information in a paperless environment.
CPR Acquisition Announcement

- On July 22, 2007—QuadraMed(R) Corporation announced it has signed a definitive agreement to acquire the Computerized Patient Record (CPR) assets of Misys Healthcare for $33 million in cash. Misys CPR is a leading enterprise-wide computerized patient record and electronic health record system.

Timelines – Phase 1
System – “As is” design

Future System Design