



Interoperability, Electronic Healthcare Record and Enterprise Content Management

The road to better Health care

Electronic Healthcare Record

- **Objectives**

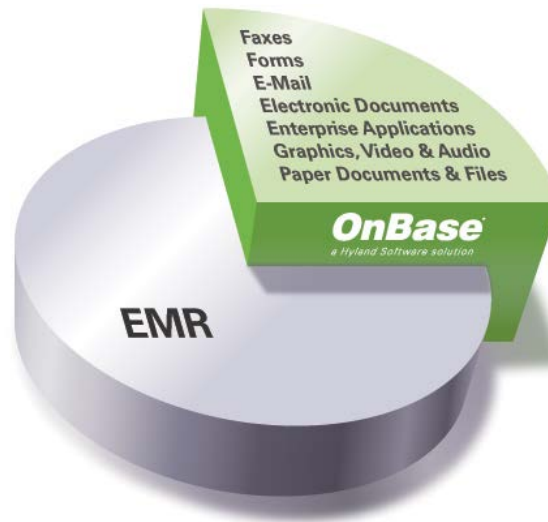
- Securely exchange health information between providers of care
- Give patients more electronic access to their own health information
- Give Physicians relevant easy-to-digest patient information at the moment they need it

- **Adoption of EHR systems can help close the gap between geographically dispersed providers, physicians and patients for ongoing medical care**

- **However, we see a significant barrier standing in the way of many of these goals.**

Challenges

- A high percentage of data, such as external test results, resides outside of the digital patient record.
- No matter how advanced the EHR system, paper and disconnected systems still exist in a healthcare organization.





Blueprints & Photos



Paper Documents & Files



Mail



Enterprise Applications



Graphics, Video, & Audio



Fax



Electronic Documents

Content Sources



Email



Print Output



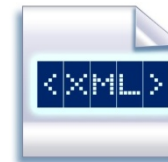
HL7 Message



Reports



Forms



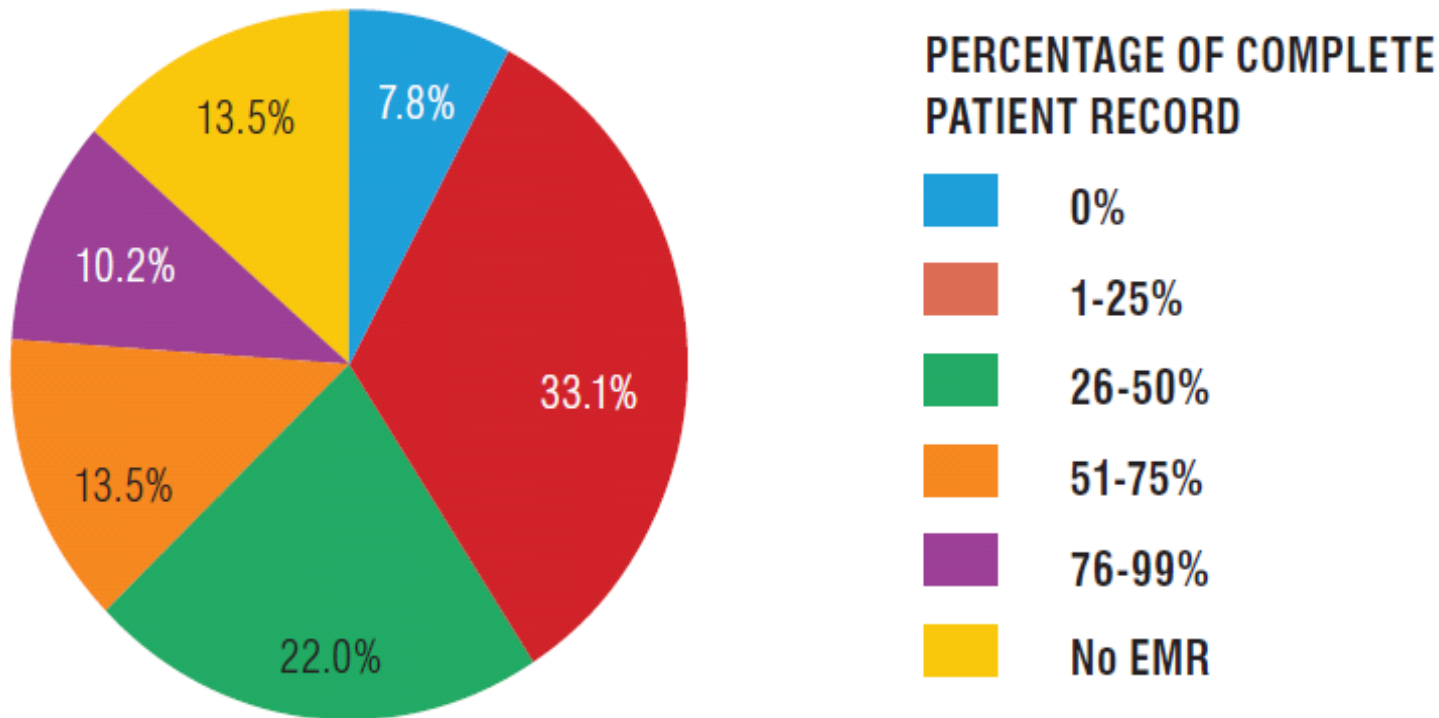
XML & Meta Data



Web Pages

Survey

- At your healthcare facility, what percentage of a complete patient record still **exists outside** the EMR in the form of paper and digital files?





Outlook across departments and facilities

- Healthcare systems had **more than one** content management application
- in various departments outside of health information management, including :
 - **patient access**
 - **clinical areas,**
 - **accounts payable**
 - **human resources**

Interoperability is key

- Integrate data across disparate IT systems
- Enable EHR vendors to focus primarily on their core competency while leaving to Hyland the development of strong **Document Management and Imaging System**
 - **Process Automation**
 - **Elimination of paper**
 - **Electronic Workflows**
- Seamlessly present both documents and images for clinical users

OnBase is an integrated suite of ECM software solutions

including core capabilities in :

- **document imaging,**
- **electronic document management**
- **workflow**
- **COLD/ERM**
- **records management.**

local and global interoperability with ECM-EMR integration

Cleveland Clinic Foundation

- One of the top hospitals in the U.S
- Treats patients from across the country and around the world.
- More than 60 facilities across the region and in Florida, Canada and Abu Dhabi.
- 39250 employees
- In 2008, the health system recorded 3.3 million patients and 50,000 hospital admissions.

Interoperability ECM-EHR

- **The Emergency Department (ED) and patient access**
 - **OnBase Document Imaging and Front Office Scanning (FOS)**
- **main campus had developed a mainframe solution**
 - **not deployable to other facilities**
 - **did not make the captured electronic documentation available to Epic users**
 - **the same patient information had to be presented**
 - **multiple times for multiple encounters within the same health system**



Integrated access of Front Office Scanning (FOS)

- By implementing FOS at the point-of-access, patient documents
 - **captured once**
 - **immediately available to authenticated users,**
 - **regardless of facility.**
- Improved Patient Satisfaction
- Made employees available to perform higher value tasks
 - **Better care**



Document Imaging in Emergency Department

- Ability to scan ED documents,
 - Ekgs, EMS Run Sheets, ID Cards or Forms,
- Directly associate them with the patient EMR
- Instantly available from the EMR interface
 - **with a simple mouse-click**
 - **saves precious time**

Benefits of integrated ECM - EHR

- Any document instantly available at the point-of-care directly from EHR Solution
- Patient care is greatly improved
 - physician find the information where they expect it
 - focused attention is directed at making the best decisions, not trying to locate paper records.

Benefits of integrated ECM - EHR

- **Reduced Cost**
 - Routing Documents
 - Storage
 - Paper and Toner
- **Repurpose storage space**
- **Regulatory Compliance, Risk Management**
 - Can you afford to lose documents?



Integration Points

- **Direct Integration**
 - Imaging Devices
 - Clinical Devices
 - COLD/WORM
 - API Level Integrations
- **HL7 v2.x – and v3**
- **IHE XDS.b**
 - Technical framework v5,v6,v7

Integration Strategy

- **Use latest technologies available**
- **Be able to reuse existing systems**
 - Address shortage of IT staff
 - Limit Training needed for personnel
 - Sometimes conversion of a legacy system is not an option

Thank you

