JOHNS HOPKINS
MEDICINE

# Bologna University Presentation

The Electronic Patient Record at Johns Hopkins

December 4, 2008

# Johns Hopkins Medicine
# Clinical Systems Overview

The clinical community across Johns Hopkins Medicine requires an integrated platform through which they can perform their patient care activities. Key features should include:

- A primary clinical 'portal', regardless of the patient setting
- Consistent navigational techniques
- A consolidated view of clinical information
- A mechanism by which they can ensure that they have access to all relevant data
- The ability to query these data, as appropriate, to enhance their ability to improve patient safety, to facilitate clinical efficiency, and to support clinical research
- A reduced requirement for multiple user ids and passwords

# Johns Hopkins Medicine Clinical Systems Overview

The Johns Hopkins Hospital will continue to deploy Eclipsys' Sunrise Clinical Manager (Sunrise) as its primary clinical system. It will be used as the core system for physicians, nurses, and other care givers in all settings. Features include:

- Physician order entry
- Electronic Medication Administration
- Clinical Documentation for all care events including inpatient, outpatient, and procedures. This documentation will be interdisciplinary in nature with data input by physicians, nurses, social work, etc.
- ICU documentation and flow sheets including connections to physiologic monitors and other devices such as ventilators
- Electronic Prescription Writing
- Secure Health Messaging between providers and with patients

# Johns Hopkins Medicine
# Electronic Longitudinal Patient Record

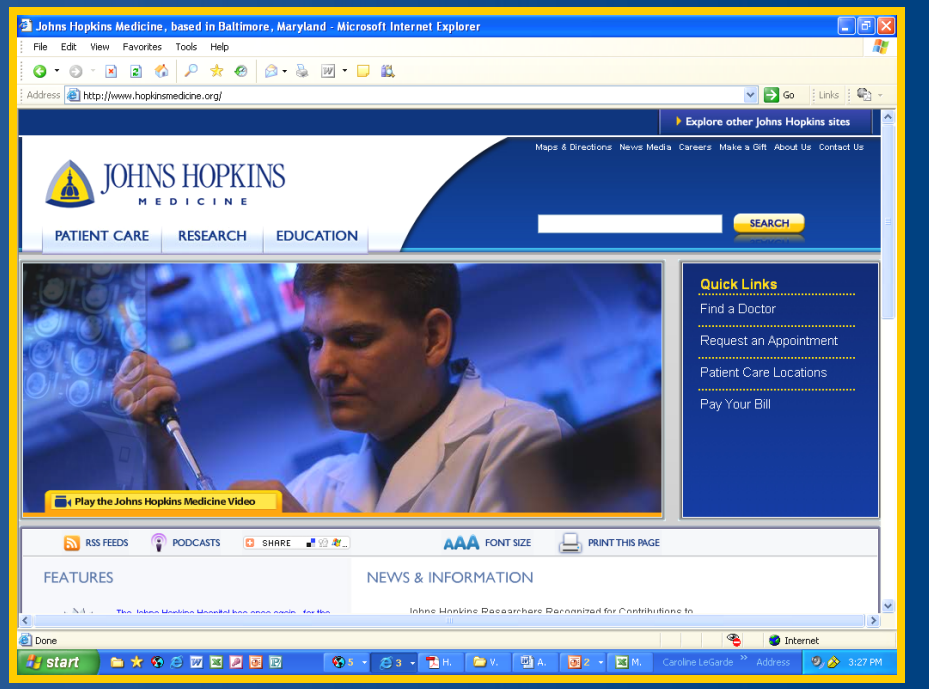
- EPR – Johns Hopkins developed software which provides results for 4 ¼ million patients. Includes: 200M+ lab results, 10M+ clinical documents, 10+M radiology reports and images (700TB), Immunizations, Problem/Allergy/Medication lists, etc.
- Used at all campuses for continuity of care.
- Old technology based on Visual Basic on PC and data processing on IBM mainframe

# Johns Hopkins Medicine
# New Electronic Longitudinal Patient Record

- EPR 2020, our new Enterprise Longitudinal Repository will be implemented across Johns Hopkins Medicine. Based on Microsoft's Amalga platform, it will serve as the enterprise's longitudinal clinical repository, aggregating information from all clinical systems including Eclipsys, Meditech and Centricity. It will serve as the basis for longitudinal patient care and clinical research.

# New Technologies
# Patient Portal

- **Pre-visit letter**
  - Clear contact for any questions
  - Patient portal password
- **Website and portal**
  - Personal information
    (e.g. current medication list)
  - Patient handbook
  - Virtual unit tour
  - Orientation and education videos
  - Educational materials
- **Pre-registration**
- **Webpage to update family and friends**

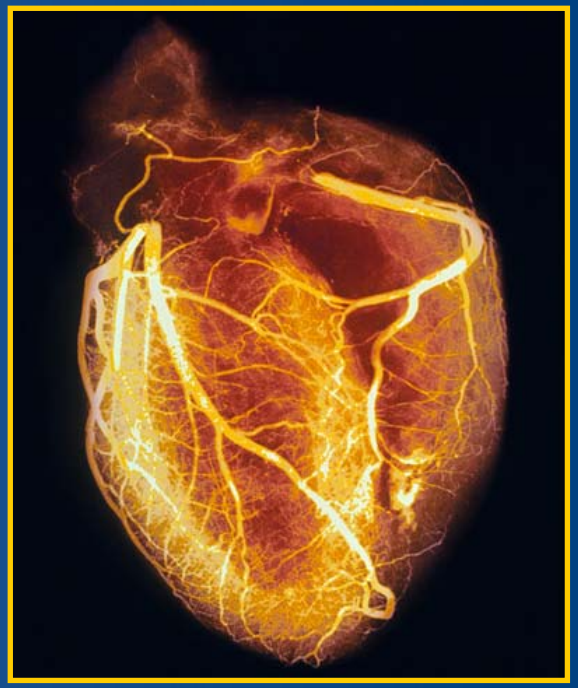


# Patient Kiosk

- **Improves the patient experience**
  - –Reduces wait times and eliminates paperwork
  - –Facilitates throughput
- **Addresses patient needs**
  - –Secures patient identification
  - –Reviews demographics
  - –Lists appointments
  - –Shows admission forms and e-signature
  - –Wayfinding, directions, and maps

# Digital Imagery

- Image archive for all disciplines including radiology, cardiology, dermatology, etc
- Central archiving for online availability
- Image uploads from non-JHM facilities
- Reduced duplicative testing
- Thumb-drive or CD copies for patients
- Referring physician and patient access via secure patient portal



# Mobile Input Devices

- Replaces paper chart
- Provides mobile access
  - Provider order entry
  - Clinical results and imagery
  - Clinical documentation
  - Collaboration tools

# Hospital-Wide Communications

- Physician and care team connections
  - MyCareTeam@Hopkins – online directory
  - Voice
  - Email or instant messaging
  - Paging
  - Nurse call system
- Small, voice activated hands-free devices

# Technology and Innovation

## Tracking Technologies


- Bar-coded wristbands
  - Picture and identifying information
  - Accurate medication and blood product administration
  - Surgical specimen tracking
  - Patient tracking
- Remote tracking technologies
  - Equipment tracking (wheelchairs, stretchers)
  - Capital assets tracking

It is not about the technology…..

It is about the **patients**!