Librarians’ EMR Activities at the Claude Moore Health Sciences Library, University of Virginia Health System

March 10, 2011 Webcast
North Atlantic Health Sciences Libraries, Inc.
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We are a...

- Mid-sized Academic Medical Library
- Magnet designated Academic Medical Center, Level 1 Trauma Center
Concerned about...

- **The Library:**
  - Knowledge Management Skills
  - Seamless Integration of Information Resources
  - Metadata Applications & Standards
  - Outreach

- **The UVA Health System:**
  - Patient Care & Safety
  - EMR Implementation & Optimization
  - Informatics & Achieving Meaningful Use
  - Standards (HL7, SNOMED CT, ICD-9, etc.)
A Quick How to Get Involved...

• Contacts from Library Directors
• Join Committees
• Express Interest at any Opportunity
• Literature Search Requests
“Just in Time!”
## Chronology of Past EMR Activities

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 2007-June 2008</td>
<td>Outpatient Document Inventory</td>
</tr>
<tr>
<td>January 2008-October 2008</td>
<td>Order Sets Cleanup</td>
</tr>
<tr>
<td>July 2008-November 2008</td>
<td>EMR RFP &amp; Vendor Demos</td>
</tr>
<tr>
<td>April 2009-August 2010</td>
<td>EpicCare Design &amp; Validation Teams</td>
</tr>
<tr>
<td>May 2010-August 2010</td>
<td>Smart-Set &amp; Order Set Naming</td>
</tr>
<tr>
<td>FORM NAME</td>
<td>ALTERNATE NAME</td>
</tr>
<tr>
<td>-----------</td>
<td>----------------</td>
</tr>
<tr>
<td>H&amp;P (=History &amp; Physical)</td>
<td>Consult</td>
</tr>
</tbody>
</table>

### Why is Metadata Important?

- **H&P**: History & Physical
- **Consult**: Doctor consultation
- **Inpatient**: Inpatient setting
- **Outpatient**: Outpatient setting
- **Pre-op**: Pre-operative
- **Licensed**: Licensed professional
- **Professional**: Professional level
- **Medical Students**: Medical students (some elements)
- **Per JCAHO**: Per Joint Commission on Accreditation of Healthcare Organizations
- **Demographics**: Patient demographics
- **HPI**: History of Present Illness
- **PMH**: Past Medical History
- **ROS**: Review of Systems
- **PE**: Physical Examination
- **Social Hx**: Social History
- **Family Hx**: Family History
- **Medications**: Patient medications
- **Allergies**: Patient allergies
- **Assessment Plan**: Patient assessment plan
More Metadata Applications: Naming Conventions

<table>
<thead>
<tr>
<th>SMART SET PROCEDURAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialty Code – Subject – Procedures – UVA</td>
</tr>
</tbody>
</table>

**ORTHO PROCEDURES UVA**

<table>
<thead>
<tr>
<th>SMART SET NON-PROCEDURAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialty Code – Subject – Subject Modifier – Other Modifier – UVA</td>
</tr>
</tbody>
</table>

**FAM ANNUAL PHYSICAL MALE GERIATRICS UVA**

<table>
<thead>
<tr>
<th>ORDER SET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialty Code – Subject – Subject Modifier – Type – UVA</td>
</tr>
</tbody>
</table>

**VASC CAROTID ENDARTERECTOMY POST –OP UVA**
Creating Standards: Subject Modifier Table

<table>
<thead>
<tr>
<th>Modifier Code</th>
<th>Complete Name of Modifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADULT</td>
<td>Adult</td>
</tr>
<tr>
<td>ALG</td>
<td>Algorithm</td>
</tr>
<tr>
<td>AP</td>
<td>Assessment/Plan</td>
</tr>
<tr>
<td>CHRONIC</td>
<td>Chronic</td>
</tr>
<tr>
<td>DEPT</td>
<td>Department</td>
</tr>
<tr>
<td>FOLLOW UP</td>
<td>Follow up; don’t use FU</td>
</tr>
<tr>
<td>GENERAL</td>
<td>General; don’t use “GEN”</td>
</tr>
<tr>
<td>H&amp;P</td>
<td>History &amp; Physical</td>
</tr>
<tr>
<td>HPI</td>
<td>History of Present Illness</td>
</tr>
<tr>
<td>INITIAL VISIT</td>
<td>Initial visit; don’t use IV</td>
</tr>
</tbody>
</table>
Current New Project: The Epic Learning Library
Very New Project: EpicCare Command Center Data Analysis - Outpatient

- What were the frequently occurring issues?
- What was the response time to answering critical calls?
- What was a new workflow issue?
- What was an old workflow issue?
An understanding of biomedical informatics will assist future physicians as they decide not only what they need to know but also how to find what they need to know in the information infrastructure.

William W. Stead et al.
DOI: 10.1097/ACM.0b013e3181f41e8c
The Need for Informatics

“...helping people to revisualize and redesign their information management skills and learn new ways of using clinical data to manage clinical practice and patient care. Informaticians are prepared to facilitate the transition process.”

Sharon McLane, James P. Turley
“Informaticians: How They May Benefit Your Healthcare Organization.”
Journal of Nursing Administration 2011 January 41 (1): 30
DOI: 10.1097/NNA.0b013e3181fc19d6
Informatics Involves...

- Information & Knowledge Resources
- Language & Terminology
- Environment & Culture of the Institution
- Integration of People
- Integration of Technology
- Integration of Procedures & Workflow
Future Projects & Roles

• MyChart Enhancements
• Library Representation in the Informatics Group
• EpicCare Command Center Data Analysis - Inpatient
Thanks!

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