Academic Electronic Health Record for Nursing

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Academic Technology Innovations

Presentation Topics

- Discuss Components of EHR
- Industry Standards & Data Elements
- Review features of an Academic EHR

The Problem

Classroom Material to Document Care

Nursing Documentation at Hospitals & Doctor Offices
The Expectations

Retrieve Pertinent Information

Document Care

Access Evidence Based Practice

Record & Dispense Medications

The Expectations

Medication Administration Record

MAR – Medication Administration Record
COW – Computer On Wheel

One Thing to Avoid

Imaginary Wall of Care
In 2008, iCare Academic, LLC is formed in conjunction with The University of Tennessee Research Foundation. In 2010, the iCare product is acquired by Lippincott, Williams & Wilkins, a division of Wolters Kluwer Health.

Typical Health Systems Configuration

Sample of Multi Systems Interface
Data Elements - ADT

PID-5-1 = BRODY
PID-5-2 = VINCENT
PID-7 = 19440602

PHI – Protected Health Information, HIPAA – Health Insurance Portability and Accountability Act of 1996

Data Elements – Orders & Results

OBR-4-2 = “Oxygen 2 LPM, maintain SpO2 >= 92”
OBR-8-1 = “Intravenous, IV” (frequently preferred)
RXE-1 = “Q4H”
RXE-2 = “Albuterol 0.5% 0.5mL (2.5 mg)
RXR-1-2 = “Nebulizer”

Discrete Data

List Staging Diagnosis of Female > 60 yrs with Fibroids >= 2cm

ADT - Admission, Discharge, Transfer
PHI - Protected Health Information, HIPAA - Health Insurance Portability and Accountability Act of 1996
**Think Discrete**

**Textual Data**

- **Nursing Note:**
  - 4/12/12 @17:06 – BP: 146/84, HR: 90, RR: 24, SpO2: 98
  - 4/12/12 @16:51 – BP: 142/84, HR: 90, RR: 28, SpO2: 80, Temp: 100.2

**Past/Present versus Future Classroom**

- **Text Book**
- **Simulation**
- **Debrief**

**Integrated Academic EHR, Case Scenarios, and Simulation**

**Why Do You Need One in Classroom?**

- American Association of Colleges of Nursing
- National League for Nursing
- QSEN – Quality and Safety Education
- NCSBN – National Council of State Boards of Nursing
Sample Usage

Simulation  Unfolding Cases
Pre-Clinical Planning  Evidence Based Practice
Post-Simulation Documentation  How would you use it?

Features to Look For

Web Based
Student Access
College of Nursing

Pre-populated with Case Scenarios

Sample Case Scenarios are copyrights of National League for Nursing

Features to Look For

DocuCare – Registered Trademark of Lippincott Williams & Wilkins
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Paper to Electronic

Demographic Data:
Name, Gender, DOB (mm/dd), Age (unchanged)

H&P, Nursing Notes (Textual Data):
Assessment, Vital Signs, Orders (Discrete Data):

Imagineer

<table>
<thead>
<tr>
<th>Student</th>
<th>EML, Breath Sounds</th>
<th>Feedback</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolly</td>
<td>Worse</td>
<td></td>
</tr>
<tr>
<td>Jennea</td>
<td>Cause</td>
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<td>Helene</td>
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<tr>
<td>Sam</td>
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<tr>
<td>Teresa</td>
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