Embrace your Informatics Side

ASPAN Conference
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Director, Clinical Informatics, HIMSS

Florence Nightingale, 1896
In attempting to arrive at the truth, I have applied everywhere for information, but in scarcely an instance have I been able to obtain hospital records fit for any purpose of comparison. If they could be obtained they would enable us to decide many other questions besides the one alluded to. They would show the subscribers how their money was being spent, what good was really being done with it, or whether the money was not doing mischief rather than good.

Nursing Informatics Defined
Nursing informatics (NI) is a specialty that integrates nursing science, computer science, and information science to manage and communicate data, information, knowledge, and wisdom in nursing practice. NI supports consumers, patients, nurses, and other providers in their decision-making in all roles and settings. This support is accomplished through the use of information structures, information processes, and information technology.

Nursing Informatics: Scope and Standards of Practice, ANA 2008

Why Nursing Informatics?
“If we cannot name it, we cannot control it, finance it, teach it, research it or put it into public policy.”

Source: Lang, N. 1993

Nursing Informatics is Nursing!
• Recognized ANA specialty in 1992
• Meets Panniers and Gassert’s (1996) attributes of a specialty in nursing
  – A differentiated practice
  – A defined research program
  – Organizational representation
  – Educational programs
  – A credentialing mechanism

Who are Informatics Nurses?
• Expert nursing clinicians in utilizing the nursing process
• Clinicians with extensive clinical practice
• Have additional education & experience related to technology and information systems
How do Informatics Nurses Impact the Nursing Process?

Enable the professional nurse to be the “Coordinator” of each patient’s care
  - Communicate & coordinate care with all other clinical disciplines
  - Coordinate discharge planning, education & teaching, transitions of care
  - Manage all information related to the nursing process and patient care delivery

How do Informatics Nurses Impact the Nursing Process?

Because information management is integrated into nursing practice, there are now additional steps in the nursing process

What is the Value of Informatics Nurses?

- Informatics Nurses are bi-lingual!
- Re-engineer clinical workflow and facilitate change management
- Analyze clinical and financial data
- Provide nursing content to standardized languages
- Enhance continuity of care
- Improve relationships between providers and recipients of health care
- Enable cost savings and productivity goals

What are the Roles of an Informatics Nurse?

- Administration, leadership, & management
- Analysis
- Compliance and integrity management
- Consultation
- Coordination, facilitation, and integration
- Development
- Educational and professional development
- Policy development and advocacy
- Research and evaluation

Show me the data...

© HIMSS 2013 HIMSS Analytics Leadership Survey & HIMSS Nursing Informatics Workforce Survey
“Clinical IT Focus” says CXO

- Fully Operational EHR in Place: 25%
- Focus on Physician Systems: 16%
- Installing CPOE: 16%
- Linking Clinical Systems to Quality: 15%
- Data Warehouse/Clinical Analytics: 8%
- Certification of EHR: 7%
- Closed Loop Medication: 6%
- Establishing Clinical Protocols: 4%
- Focus on Nursing Systems: 2%

“Barriers to Implementing IT” says CXO

- Lack of Staffing Resources: 22%
- Lack of Adequate Financial: 18%
- Vendor Inability to Deliver Product: 18%
- Difficulty in End User Acceptance: 15%
- Lack of Time Commitment from: 15%
- Lack of Clinical Leadership: 6%
- Difficulty Proving ROI: 6%
- Lack of Top Management Support: 6%
- Lack of Interoperable Systems: 4%
- Lack of Strategic IT Plan: 4%

“Role of Clinicians” says CXO

- Participate in Systems Evaluation: 84%
- Project Champions for Other: 81%
- Participate in Development of...: 78%
- Involved in Clinician Training: 73%
- Clinicians are Employed as...: 64%
- Employed by IS Department: 57%
- Business Project Leaders: 42%
- Explore Innovative Ways to Use IT: 39%
- We have a CMIO: 36%
- Clinician Department Managers: 32%
- We have a CIO: 26%
- No Role: 22%

“IT Staffing Needs” says CXO

- Clinical Application Support: 43%
- Network/Architecture Support: 22%
- Clinical Informatics: 20%
- System Integration: 17%
- IT Security: 14%
- Clinical Transformation: 13%
- Database Administration: 13%
- PC/Server Support: 12%
- Process/Workflow: 10%
- System Design/Implementation: 10%
NI’s: Job Responsibilities

<table>
<thead>
<tr>
<th>Job Responsibility</th>
<th>2011 Results</th>
<th>2007 Results</th>
<th>2004 Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Systems Implementation</td>
<td>25%</td>
<td>57%</td>
<td>59%</td>
</tr>
<tr>
<td>Systems Development</td>
<td>32%</td>
<td>21%</td>
<td>45%</td>
</tr>
<tr>
<td>Quality Initiative</td>
<td>30%</td>
<td>57%</td>
<td>67%</td>
</tr>
<tr>
<td>Liaison</td>
<td>N/A</td>
<td>13%</td>
<td>23%</td>
</tr>
<tr>
<td>Strategic Planning</td>
<td>13%</td>
<td>15%</td>
<td>16%</td>
</tr>
<tr>
<td>Informatics Education</td>
<td>45%</td>
<td>53%</td>
<td>57%</td>
</tr>
<tr>
<td>Vendor Communication</td>
<td>68%</td>
<td>77%</td>
<td>71%</td>
</tr>
<tr>
<td>Nursing Education</td>
<td>72%</td>
<td>52%</td>
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NI: Developing/Implementing these Applications & Systems

<table>
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<tr>
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<td>N/A</td>
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<tr>
<td>Non-nursing Clinical Documentation</td>
<td>48%</td>
<td>44%</td>
<td>43%</td>
</tr>
<tr>
<td>eMAR</td>
<td>43%</td>
<td>34%</td>
<td>36%</td>
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<tr>
<td>Bar Code</td>
<td>N/A</td>
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</tr>
<tr>
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<td>29%</td>
<td>33%</td>
<td>34%</td>
</tr>
<tr>
<td>Point-of-Care Decision Support</td>
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<td>24%</td>
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<td>Quality Improvement</td>
<td>41%</td>
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NI: Application & System Experience

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NI: Demographic Information

- Place of employment
- Education, training (on the job vs. degree) and certification
- Clinical experience
- Years in field/current position
- Reporting structures
- Salary information

2011 NI Workforce Survey Largest Barrier to Success

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<th>2004 Results</th>
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<tr>
<td>Availability of Financial Resources</td>
<td>23%</td>
<td>18%</td>
<td>23%</td>
</tr>
<tr>
<td>User Acceptance</td>
<td>29%</td>
<td>16%</td>
<td>29%</td>
</tr>
<tr>
<td>Lack of Integration</td>
<td>33%</td>
<td>24%</td>
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What will tomorrow bring?
Job Trends

Envision the Future of Nursing & Technology
• Technology is the greatest tool available to transform and innovate the delivery of nursing care
• Technology solutions exist today that can improve safety and efficiency
• We must have greater input in development and testing of technology by nurses

Source: Cipriano, P., Nurse Scholar in Residence, IOM 2011

The Future of Nursing: Leading Change, Advancing Health
Nurses constitute the largest segment of the nation’s healthcare workforce at 3.1 million
In their front-line roles, nurses can play a vital role in helping realize the objectives set forth in the 2010 Affordable Care Act
A number of barriers prevent nurses from being able to respond effectively to rapidly changing health care settings and an evolving health care system
These barriers must be overcome to ensure that nurses are well-positioned to lead change and advance health

Nurses must become...
• Leaders in the Effective Design and Use of EHR Systems
• Integrators of Patient Information
• Full Partners in Decision Making
• Care Coordinators Across Disciplines
• Advocates for Engaging Patients and Families
• Contributors to Standardize EHR Infrastructure

Source: ANI Testimony to the October 2009 Forum on the Future of Nursing

HIMSS Position Statement

Transforming Practice through Technology & Informatics will:
• Improve safety and efficiency
• Free clinicians from tasks
• Bring evidence for decisions to point of care
• Empower patients to be involved in care
• Enable nurses to:
  – Integrate data into health information
  – Consult in the home, LTC, Assisted living
  – Coordinate care across settings

Source: Cipriano, P., Nurse Scholar in Residence, IOM 2011
Questions????

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