Module 7: Informatics and Technology **DRAFT 1**

Suggested Time Frame: 60-80 minutes.

Goal Statement: Identify foundational clinical informatics and technology competence skills applicable to patient management.

Behavioral Objectives.

At the completion of this area of content, the participant will be able to:

Define key terminology related to healthcare informatics and technology

Identify methods clinical technology is used to promote patient safety

Identify challenges related to clinical use of technology

There is a PowerPoint presentation that corresponds to each objective

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| Content Outline | Preceptor Activities | Suggested Student Activities |
| Objective 1. Overview of Informatics and Technology in Healthcare  What is informatics?  How does it apply to healthcare?  Computer literacy  Information literacy  EMR vs. HER  Law and regulations  Meaningful use | (add PowerPoint link for Informatics overview)  [EMR vs. EHR explanation](https://www.youtube.com/watch?v=y85HfTG4UpU)  (add PowerPoint for law/ regulations)  Add PowerPoint for meaningful use rationale, importance, stages  [Meaningful use stage 3 overview](https://www.youtube.com/watch?v=FhpiHCqcpnI) | [Basic computer skills assessment](https://www.digitalliteracyassessment.org/index.php)  Review with student the importance of thorough documentation that captures meaningful use data including rationale. |
| Objective 2. Explain why information and technology skills are essential for safe patient care.    Bar Code Medication Administration Clinical decision support  Quality Indicators  Trending data  Clinical Equipment | [IOM Health IT and patient safety](http://iom.nationalacademies.org/~/media/Files/Report%20Files/2011/Health-IT/HealthITandPatientSafetyreportbrieffinal_new.pdf)  Explore the clinical decision support tools your facility offers within their electronic media  What are your facility quality indicators? Where is the information and trended data found? | Assist the student to apply technology and information management tools to support safe patient care processes.  Have the student utilize Bar Code Medication Administration, include methods to troubleshoot (late, missing, refused medication; documented in wrong chart or time frame).  Utilize tools embedded within electronic health records facility electronic media to support knowledgeable care delivery. (how to utilize clinical decision support tools, how to find and trend data)  Assist the student to plan, document, and evaluate outcomes of patient care in the electronic health record.  Encourage student to review and respond to electronic clinical alerts to reduce errors |
| Objective 3. Explain IT utilization in healthcare communication  Computerized Physician Order Entry  Pager system  Patient education/advisory leaflets  Policy & Procedure  Access to guidelines, EBP  Incident reports | Locate a policy/procedure related to a common procedure on your unit on the intranet.  How long did it take?  Did you find the information on your first attempt? | Utilize provider pager system  Have the student find quality patient education/ advisory leaflets from both facility and web-based sites.  Are they easy to read and understand?  Are they written below a 5th grade level?  Have the student observe a common nursing procedure for the unit then find the policy/ procedure. Compare to actual practice. Do they match?  Is the policy/procedure supported by current EBP? How do you know?  Complete an incident report (actual or simulated) |
| Objective 4. Challenges of IT in practice  Security/confidentiality/HIPPA  Access-biometrics, passwords  Overdependence, blurring of man & machine  Social networking-patient, staff, facility | Review the following case examples: [HIPPA case examples from HHS](http://www.hhs.gov/hipaa/for-professionals/compliance-enforcement/examples/all-cases/index.html#case26) | Review facility policy on social networking.  Discuss patient and staff confidentiality.  Describe a breach of confidentiality and how it may lead to termination of employment |
| Summary of Module 7 |  |  |

Resources

[University of Minnesota School of Nursing Informatics](http://www.nursing.umn.edu/continuing-professional-development/nnideepdive/)

[Healthcare Information and Management Systems Society (HIMSS)](http://www.himss.org/)

Method of Evaluation