Pharmacy Informatics Rotation Description PGY1

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Learning Experience Description
The informatics rotation is a 4 week block rotation in which the resident becomes familiar with medication use information systems of the pharmacy and medical center. Resident will develop a basic understanding of Computerized Prescriber Order Entry (CPOE) systems, pharmacy order entry systems, barcoded medication administration systems (BCMA), automated dispensing systems, automation/robotics, and electronic health records. Additionally, the resident may be exposed to system databases, system interfaces, clinical drug databases, and clinical decision support. Depending on department initiatives during the rotation, the resident may be involved with the planning and implementation of new systems or upgrades of existing systems. Throughout the rotation, the resident will develop an understanding of the history of pharmacy informatics in addition to the unique connection of pharmacy informatics with clinical pharmacy, medication-use processes, and medication safety. In the event an informatics resident is available during a PGY1 pharmacy informatics rotation, he or she will be expected to participate in the precepting of the PGY1 resident.

Learning Experience Goals

R6.1 Explain security and patient protections such as access control, data security, data encryption, HIPAA privacy regulations, as well as ethical and legal issues related to the use of information technology in pharmacy practice. Exercise skill in basic use of databases and data analysis software and successfully make decisions using electronic data.

R1.1 Identify opportunities for improvement of the organization’s medication-use system.
R1.2 Design and implement quality improvement changes to the organization’s medication-use system. Design and implement pilot interventions to change problematic or potentially problematic aspects of the medication-use system with the objective of improving quality.

E7.2 Communicate effectively.
E7.3 Balance obligations to oneself, relationships, and work in a way that minimizes stress.
E7.4 Manage time to effectively fulfill practice responsibilities.
E7.5 Make effective use of available software and information systems. Exercise skill in the use of the organization’s word-processing, spreadsheet, and presentation software. Explain how an effectively functioning organizational information system is structured.

Daily Schedule
Required Hours
The hours of this rotation are typically 8-4:30. This can vary depending on time of year and Department requirements.

**Required Meetings, as applicable to pharmacy informatics:**

- Weekly pharmacy informatics meetings
- Weekly meetings with biomedical informatics
- System planning and implementation meetings
- Pharmacy and Therapeutics Committee
- Medication Use and Safety Improvement Committee (MUSIC) and other safety meetings as they relate to systems
- Pharmacy policy meetings
- Others as determined

**Learning Experience Requirements/Responsibilities**

- Review and understand policies as they relate to patient security, privacy, and HIPAA regulations as well as medication use systems at VUMC. This includes hospital and pharmacy policies. (R6.1)
- Understand reasons for patient security and privacy in regard to electronic data and systems. (R6.1)
- Explain and have general understanding of the various medication use systems of VUMC and Pharmacy, including databases and decision support. (E7.5)
- After understanding the general structure of the medication use systems, identify an opportunity for quality improvement within a medication system. (R1.1, E7.5)
- Design and implement the improvement opportunity identified above. This will likely be designing the logic of the change rather than implementing the coding process in the system. This may include training of staff in order to implement the intervention. (R1.2, E7.2, E7.3, E7.4)
- The resident will discuss with preceptor the Best Practices of Informatics, Informatics Training in Pharmacy, and demonstrate a general understanding of how pharmacy informatics interrelates with clinical pharmacy and medication safety. (R1.1, E7.4)

**Resources for Review and Discussion**

- Hospital Policy & Procedure Manual (related to security, HIPAA, and medication systems)
- Pharmacy Policy & Procedure Manual (related to security, HIPAA, and medication systems)
- Best Practices for Health-System Pharmacy (most recent edition)
- ASHP Goals for 2015
- Informatics Training in Pharmacy (Presentation at McKesson InSight Users Group Conference, October 2007, by Carly Feldott and Alan Chung, former pharmacy informatics resident)
Other Supporting Resources that may be used / are available to Resident:

- Various informatics articles to be determined
- www.ashp.org
- www.amia.org

Method of Evaluation
Evaluation of residents will be based on the Resident Learning System (RLS). Evaluation will consist of a summative evaluation upon rotation completion, in addition to any criteria-based checklists submitted by the resident. The specific goals and objectives, on which the resident will be evaluated, will be provided at the beginning of the rotation. Residents will be requested to complete a self-evaluation for all evaluations. Residents will also be required to complete a learning experience evaluation and a preceptor evaluation. Evaluations are completed in the evaluation database. All work to be evaluated on rotation must be turned in for review no later than the last day of the rotation.