

# **University of Utah Hospitals & Clinics Health System Pharmacy Administration Residency**

## **Pharmacy Informatics (Administrative Resident)**

**Rotation Preceptors:** Craig Herzog, RPh, MBA, Director, Pharmacy Informatics & Technology

### **Site Description:**

The University of Utah Hospitals & Clinics services inpatients and outpatients at University Hospital, Huntsman Cancer Hospital, Orthopaedic Hospital, and University Neuropsychiatric Hospital (UNI) along with associated ambulatory clinics in those institutions. Cerner PowerChart and PharmNet applications are the backbone of medication orders throughout the Health Sciences Center. Omnicell and Automed technologies are provided across most of the hospitals and clinics and support the distribution process of medications to patients. Alaris smart pumps are also used to insure accurate and safe administration of IV admixtures.

### **Rotation Description:**

Administrative residents will be trained in the safe and effective use of information technology and automated systems including description, assessment, analysis, planning and appropriate use of various software applications and technologies. Residents will be interacting with ITS and other departments. Through these interactions, the resident will have a better understanding of the role of pharmacy informatics and technology in the overall organization and overall organizational informatics' strategies and priorities. During the rotation, the resident will develop a framework for analyzing new technology and assessing current processes for opportunities for improvement.

### **RLS Goals**

R5.1 – Design a plan that will maximize the safe and effective use of information technology and automated system.

Obj R5.1.1: Explain pharmacy management responsibilities relating to information systems and technology.

Obj R5.1.2: Explain the importance of ensuring that information systems and data sources are integrated across the health system to facilitate appropriate medication use. Obj R5.1.3: Explain advances and limitations in technology, hardware and software available to pharmacists and other healthcare professionals in the pursuit of improving patient care.

Obj R5.1.4: Based on one's own evaluation of the pharmacy's current automation and technology systems plan, make any needed recommendations for improvement.

Obj R5.1.5: Explain the importance of developing a long-range pharmacy information technology and automation plan that fits with the health system's plan.

R5.2 – Understand how to develop a plan for the implementation of new technology and automation systems.

Obj R5.2.1: Explain the components of a project plan for the implementation of new technology and automation systems.

Obj R5.2.2: Explain a systematic approach for identifying the resources that would be needed to design, build, validate, and implement a specific piece of new technology or automation system.

R5.3 – Develop procedures for the day-today management of technology and automated systems.

Obj R5.3.1: Explain how to maintain effective liaisons between the pharmacy department and information technology staff and other health care disciplines to support medication use.

Obj R5.3.2: Assess current policies and procedures for a particular piece of technology or automated system against current best practices and make recommendations for needed improvement.

E5.1 – Measure the outcomes associated with technology and automated systems implementation.  
 Obj E5.1.1: Create a plan for measuring the outcomes of implementing new technology or automated system.

E5.2 – Develop sound assessment principles for the evaluation and selection of technology.  
 Obj E5.2.1: Based on one’s own evaluation of an existing request for proposal (RFP) for technology and automation systems, make any needed recommendations for improvement.

**Activities Evaluated:**

Rotation Activity	RLS Goal	Teaching Methods
Explain pharmacy management responsibilities relating to information systems and technology.	R5.1	I
Explain advances and limitations in technology, hardware, and software available to pharmacists and other healthcare professionals in the pursuit of improving patient care.	R5.1	I
Based on one’s own evaluation of the pharmacy’s current automation and technology systems plan, make any needed recommendations for improvement.	R5.1	C,F
Explain the components of a project plan for the implementation of new technology and automation systems.	R5.2	I,M
Explain a systematic approach for identifying the resources that would be needed to design, build, validate, and implement a specific piece of new technology or automation system.	R5.2	I,M
Explain how to maintain effective liaisons between the pharmacy department and information technology staff and other health care disciplines to support medication use.	R5.3	I
Assess current policies and procedures for a particular piece of technology or automated system against current best practices and make recommendations for needed improvement.	R5.3	C,F
Create a plan for measuring the outcomes of implementing new technology or automated system.	E5.1	C,F
Develop and discuss assessment principles for the evaluation and selection of technology.	E5.2	F

Teaching methods : I = Direct Instruction, M= Modeling, C= Coaching, F= Facilitation

**Readings and Preparatory Work:**

Be familiar with and meet with preceptor to discuss assigned readings from:  
 “The Pharmacy Informatics Primer.” By Doina Dumitru, ASHP

**Project Description:**

Residents will conduct a gap analysis to assess out automation and technology against a best practice standard. Residents will assess a current policy and procedure related to automation and technology and update such as needed. In addition, residents may be assigned a project based on the current needs of the informatics service.

**Typical Daily/Weekly/Monthly Activities:**

Usual schedule 8:00 – 4:30, Monday through Friday, though some meetings may require early or late starting time.

- Attend monthly CSAC Meeting
- Attend monthly TIAC meeting
- Attend monthly Medication Safety subcommittee meetings
- Attend bi-weekly pharmacy IT staff meeting

Attend department Management Meeting  
Other meetings as assigned

**Evaluation Process:** The preceptor will conduct a midpoint evaluation. At the end of the rotation, the resident will conduct a self-evaluation. The preceptor will conduct an end of rotation evaluation with the resident. The resident will complete the preceptor and learning experience evaluations.