

## **PGY2 Critical Care Course Description**

### **Learning Experience Title: Critical Care Research**

#### **Preceptor:**

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#### **Description:**

The Critical Care Research learning experience is a required, longitudinal learning experience at University Health Truman Medical Center. A pharmacist in this role will select and complete major research relating to a specific aspect of pharmacy practice.

#### **Resident Responsibilities:**

The resident will be responsible for the following: identifying an area of research of interest to them for a full research project, completion of a medication-use evaluation, and the creation or revision of an ICU protocol, policy, or order set.

Research Project and Medication-Use Evaluation: A meeting with preceptors will be arranged by RPD in July for brainstorming of possible project ideas. Once a project is selected or proposed the Research Coordinator with the help of the Research Committee will identify a primary preceptor and additional co-authors. MUE preceptors will be assigned based off the MUE selected and preceptor interest. Self-motivation, good time management skills and good communication are vital to succeed in this experience.

ICU Protocol/Policy/Order set: creation or revision of any of the aforementioned will be identified within the first six months of the residency. All changes must be submitted via Policy Medical prior to the end of the residency year.

**Research Coordinator** will act in an oversight role to assist the resident through the research process. They will serve as lead of the research committee and act as a liaison between residents

and the committee. The research coordinator will provide quarterly feedback to residents in conjunction with the resident's primary project preceptor.

**Research Oversight Committee (ROC)** will oversee the residency research process. The members of this committee will consist of, but is not limited to the Research Coordinator, PGY1 program director, PGY2 program director, a representative from UMKC School of Pharmacy, and 1 additional preceptor. The committee's responsibilities include, discussing and approving all research project ideas, providing feedback to residents on study design and methodology, and assessing progress throughout the year.

**Primary Project Preceptor** will serve as the resident's primary research mentor throughout the year. The primary project preceptor will be the preceptor that originally brought forth the project idea, but will be assigned by the research advisory committee in the case where the preceptor has multiple chosen research ideas. The primary project preceptor will work closely with the resident throughout the year to assist in planning, implementing, analyzing, and presenting the results of the project.

**Learning Experience Activities:**

Activity	Objectives Covered
Identify an ICU order set, policy, or protocol that needs to be developed or requires modification and successfully submit for final approval via Policy Medical	R2.1.1
Complete a medication-use evaluation (MUE) as assigned by the Pharmacy and Therapeutics Committee and prepare a formal presentation for the committee with results.	R2.1.2
Identify areas of improvement of the medication-use system based off the results of the MUE	R2.1.4
Attend and participate project idea meeting	R2.2.1
Attend and participate in meeting with IRB Chair	R2.2.1
Complete CITI training	R2.2.1
Understanding the details behind completing a research project and how it relates to developing and maintaining a residency program	R2.2.1
Design project	R2.2.2
Complete and submit IRB application	R2.2.2
Complete background research for project	R2.2.3
Implement project after receiving IRB and other approval as needed	R2.2.4
Assess the impact, including sustainability if applicable, of the residency project	R2.2.5
Present design at ASHP Midyear meeting	R2.2.6

Present results at MPRC in May	R2.2.6
Prepare manuscript style final report of project.	R2.2.6

### **Objectives selected to be evaluated during learning experience:**

R 2.1.1: (Creating) Prepare or revise a drug class review, monograph, treatment guideline, or protocol related to care of critically ill patients, including proposals for medication-safety technology improvements.

R 2.1.2: (Evaluating) Participate in a medication-use evaluation related to care for critically ill patients (Applying) Participate in a medication-use evaluation.

R 2.1.4: (Analyzing) Identify opportunities for improvement of the medication-use system related to care for critical care patients.

R 2.2.1: (Analyzing) Identify and/or demonstrate understanding of a specific project topic to improve care of critically ill patients or a topic for advancing the pharmacy profession or critical care pharmacy.

R 2.2.2: (Creating) Develop a plan or research protocol for a practice quality improvement or research project for the care of critically ill patients or a topic for advancing the pharmacy profession or critical care pharmacy.

R 2.2.3: (Evaluating) Collect and evaluate data for a practice quality improvement or research project for the care of critically ill patients or for a topic for advancing the pharmacy profession or critical care pharmacy

R 2.2.4: (Applying) Implement a quality improvement or research project to improve care of critically ill patients or for a topic for advancing the pharmacy profession or critical care pharmacy.

R 2.2.5: (Evaluating) Assess changes or need to make changes to improve care for critical care patients or a topic for advancing the pharmacy profession or critical care pharmacy.

R 2.2.6: (Creating) Effectively develop and present, orally and in writing, a final project or research report suitable for publication related to care for critically ill patients or for a topic related to advancing the pharmacy profession or critical care pharmacy at a local, regional, or national conference.

### **Requirements of Learning Experience:**

- Completion of Collaborative Institutional Training Initiative (CITI) Program is required by the end of the orientation month, as needed
- Actively participate in discussions regarding potential projects
- Complete work prior to or in accordance to the project timeline
- Presentation of research protocol to Research Oversight Committee
- Reach out to statistician prior to data collection to ensure correct data is being collected
  - Conduct data collection and/or complete implementation of study protocol
- Poster presentation at ASHP Midyear Clinical Meeting
- Oral presentation of results at the Midwest Pharmacy Residency Conference in May
- Complete all order set/policy/protocol tasks prior to June of residency year
- Completion of the longitudinal research project and submission of a final written manuscript suitable for publication in a journal by the end of the residency program year

### Preceptor interaction

- Review of project progress will be checked on a regular basis through brief monthly RPD/resident meetings and as needed.

### Resident Progression

- The resident is expected to complete the research projects listed above by the date assigned (may change each year). The resident shall follow the research project timeline provided by the RPD in July.

### **Method of Evaluation:**

Evaluation of the resident will be based on the ASHP activity learning experiences listed above. Each learning activity has a corresponding code following the experience which corresponds to the activity learning experience listed in PharmAcademic®. During the orientation to the learning experience, the preceptor and the resident will review all the material contained in this learning experience description and sign a copy to be retained in the residents file.

The preceptor will provide feedback verbally (formative) throughout the course of the learning experience and electronically (summative) via PharmAcademic® at the conclusion of the experience. Once the resident is finished with all of the requirements for the experience, the preceptor and the resident will discuss the learning experience as a whole both formally and informally. The resident will also be responsible for providing both formative and summative feedback at the conclusion of the experience. All evaluations must be submitted within seven days from the conclusion of the learning experience.

*I have read and acknowledged the responsibilities of the learning experience.*

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Pharmacy Resident

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Primary Preceptor