**PGY 2 Critical Care Pharmacy Residency Course Description**

**Learning Experience Title: Critical Care Research**

**Preceptor:**

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**Purpose:**

The Critical Care Research learning experience is a required, longitudinal learning experience at Truman Medical Center.

**Learning Experience 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: A meeting with preceptors will be arranged by RPD in July for brainstorming of possible project ideas.  Once a project is selected, the resident with the assistance of the RPD will identify co-authors.  Self-motivation, good time management skills and good communication is vital to success in this experience.

Medication-use evaluation (MUE): An MUE will be assigned to the resident by the Pharmacy and Therapeutics Committee.

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.

**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.

**Goals and Objectives to be covered and evaluated:**

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| **Activity** | **Objectives Covered** |
| Attend and participate project idea meeting | R2.2.1 |
| Attend and participate in meeting with IRB Chair | R2.2.1 |
| Complete CITI training |
| Complete background research for project | R2.2.3 |
| Design project | R2.2.2 |
| Complete and submit IRB application | R2.2.2 |
| Implement project after receiving IRB and other approval as needed | R2.2.4 |
| Present design at ASHP Midyear meeting | R2.2.6 |
| Present results at MPRC in May |
| Assess the impact, including sustainability if applicable, of the residency project | R2.2.5 |
| Prepare manuscript style final report of project. | R2.2.6 |
| Understanding the details behind completing a research project and how it relates to developing and maintaining a residency program | R2.2.1 |
| 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 |
| 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 |

**Requirements of Learning Experience:**

* Actively participate in discussions regarding potential projects
* Complete work prior to or in accordance to the project timeline
* Reach out to statistician prior to data collection to ensure correct data is being collected
* Prepare a formal presentation for the Pharmacy and Therapeutics Committee with results from the medication-use evaluation
* Complete all order set/policy/protocol tasks prior to June of residency year

Preceptor interaction

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

**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 by the conclusion of the learning experience.

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

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Pharmacy Resident Primary Preceptor