

University of Utah Health PGY1 Project (Required Longitudinal Learning Experience)

Preceptors:

A preceptor is assigned based on the project selected by the resident during the first month of learning experience. PGY1 residents are able to choose from a list of projects that are vetted prior to the first day of residency by the Research Subcommittee of the Residency Advisory Committee. The preceptor coaches the resident through their project as a content expert and facilitator. The preceptor must be approved by the PGY1 Residency Program Director.

Duration: 10-12 Months

Learning Experience Description:

As a requirement of the program, a resident will complete a project that allows the resident to participate in quality improvement work that aligns with the pharmacy department mission and strategic initiatives. The project will support the completion of the outcomes, goals, and objectives of the PGY1 program. During this experience, residents will learn the steps involved in planning and completing a project. These steps include, but are not limited to, developing a project proposal in the IRB format, presenting the proposal to the Residency Advisory Committee, identifying data and human resources for data collection, managing their time in collecting and analyzing the data, and writing a final project summary. In addition, the resident will present the project at regional conference and prepare a manuscript appropriate to submit for publication. The resident has the opportunity to work with any pharmacist preceptors, supervisors, or directors on a project that will benefit the department, pharmacy practice in general, or patient care. The resident is expected to set up face-to-face project meetings with their preceptor at least every other month to describe their progress, successes and challenges. The resident is expected to contact the preceptor with any questions that arise in order to keep the project moving forward. Residents are expected to use the highest level of integrity and confidentiality when working with patients, HIPAA protected data, and contract pricing. Residents must be responsible for the accuracy and integrity of all data including data collected by students and other co-investigators. Residents are expected to meet all the deadlines set by their preceptors and the Residency Manual unless the date has been re-negotiated in advance.

Site Description:

The Department of Pharmacy Services provides services to 4 hospitals, 5 infusion services including Home Infusion, 11 community clinics, 16 retail pharmacy facilities, and specialized ambulatory clinics. The Department is supported by a comprehensive Drug Information Service. As a dynamic department with a multitude of services and patient populations, there are many opportunities for projects for PGY1 residents.

Role of the Pharmacist:

The primary preceptor for projects must be a UUH pharmacist or a faculty member at the UofU College of Pharmacy, however other supporting co-investigators may include pharmacists, physicians, administrators, or other health professionals as appropriate for the project's success. The primary preceptor must be actively involved in the research process and qualify for authorship on the final manuscript. The preceptor must have the skills needed to guide the resident through the project from developing the research idea, creating a RAC/IRB proposal, sourcing data, collecting data and analyzing and drawing conclusions. Preceptors must respond to resident requests for help as soon as possible, and project-related written documents must have edits returned within 1 week of being sent. The preceptor is responsible for completing quarterly evaluations with the resident and documenting them on PharmAcademic. Pharmacists serving as preceptors may be clinical pharmacists serving in acute care, consult service, or ambulatory clinics. Pharmacists may also be pharmacist supervisors, managers or directors with leadership responsibilities in the department.

RLS Goals:

R2.1 Demonstrate ability to manage formulary and medication-use processes, as applicable to the organization.

R2.1.3 Identify opportunities for improvement of the medication-use system
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R2.2 Demonstrate ability to evaluate and investigate practice, review data, and assimilate scientific evidence to improve patient care and/or the medication-use system

R2.2.1 Identify changes needed to improve patient care and/or the medication-use system
R2.2.2 Develop a plan to improve the patient care and/or the medication-use system
R2.2.3 Implement changes to improve patient care and/or the medication-use system
R2.2.4 Assess changes made to improve patient care or the medication-use system
R2.2.5 Effectively develop and present, orally and in writing, a final project report

R4.1 Provide effective medication and practice-related education to patients, caregivers, health care professionals, students, and the public (individuals and groups)

R4.1.2 Use effective presentation and teaching skills to deliver education
R4.1.3 Use effective written communication to disseminate knowledge

Activities Evaluated:

Learning Experience Activity	RLS Goal	Teaching Method
Identify a project idea. Discuss what makes a project feasible to complete in 7 months. Map out the activities required to complete the project by mid- April.	R2.1.3 R2.2.1 R2.2.2	I, C, F
Participate in the ASPIRE research training program.	R2.1.3 R2.2.1	I, C
Develop a project proposal using a feasible study design to present to RAC using the standard IRB template in the resident manual. Describe the potential effect of the project on identifying or improving the quality of therapeutic regimens, services or systems at UUH.	R2.2.2	I, M, C, F
Use CITI or NIH to complete human subjects research training to qualify for submitting projects to IRB. Submit an IRB proposal if appropriate, and only after RAC approval.	R2.1.2 R2.1.3	I, C, M, F
Conduct project – making effective use of software. Successfully search, retrieve, and manage electronic data from internal information databases, external online databases, or the Internet. Exercise skill in the use of Word, Excel and PowerPoint.	R2.2.2 R2.2.3	C, F
Analyze data, making effective use of software. The resident should review the statistical procedures used to summarize data with their project preceptor. The resident is responsible for using Excel, Access or RedCap to provide a descriptive analysis of their data.	R2.2.4	C, F
Draw appropriate conclusions from data. The resident will present the data and conclusions in writing and orally to their preceptor to review.	R2.2.4 R2.2.5 R4.1.2 R4.1.3	M, C, F
Develop a manuscript suitable for publication using the author's instructions for the publication. Include the manuscript with edits in the resident's e-portfolio.	R4.1.3	M, C, F
Present project at Mountain States Conference as a 20 minute platform presentation. if possible, present a UHC-Vizient or Midyear poster presentation. Use PowerPoint for both the poster and platform presentation. Work with preceptors to create, practice, edit and revise these presentations.	R4.1.2 R4.1.3	C, F

Describe the impact and improvement resulting from the project on the department, patient care or pharmacy practice. Include recommendations for updating protocols or guidelines based on the study results.	R2.2.4 R2.2.5	C,F
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Teaching Methods include: I=direct instruction, C=coaching, M=modeling, and F=facilitation

Readings and Preparatory Work:

The resident will conduct a thorough literature search to identify readings to provide background for the project and enhance the skills to conduct the project. The resident will complete the IRB training prior to starting on their project in CITI or NIH, even if IRB approval is not needed for the project. Residents will participate in the ASPIRE program during the month of August which consists of required readings, videos and worksheets to guide the creation of the project's research question, project design, data sources, and statistical analysis. Additional readings may be assigned to further support the successful completion of the project.

Typical Daily/Weekly/Monthly Activities:

A project will test the resident's time management skills. The resident will need to work consistently on their project throughout the year. The resident will need to communicate frequently on the project status and any problems that may occur with the project preceptor and program director. The project is typically scheduled as a longitudinal experience. If the resident desires, project time can be allocated during the year in up to 3.5 weeks of protected project time. The resident will meet with the preceptor at least quarterly to formally evaluate progress and complete the PharmAcademic goals.

Expected Resident Progression:

Baseline: The resident will select a project from a RAC-approved list before August 7th and meet with the project team to begin planning the project. The resident should pull and read available literature on the topic to ensure their project design and outcomes add to the literature, and measured outcomes will be relevant. The resident will work with their preceptor to set a communication plan that includes frequency and format (eg, face-to-face vs email, and number/timing of meetings).

First Quarter: The resident will attend the ASPIRE program to identify a research/QI question to answer and consider what outcomes and data sources are available to address this question. The resident will work with the project team to scope the project, and write a RAC proposal that will be prepared by September 1st and submitted to the PGY1 RPD. An IRB will be submitted by the end of September for approval or exemption AFTER RAC approval is granted. The resident will work closely with their team and RAC for any proposal updates and edits.

Second Quarter: The resident will identify a QI team and data sources as required by the approved project proposal. The resident will facilitate project meetings to ensure that the project is successful. The resident will work with the data warehouse, Epic reports, automation reports, financial managers, etc. to pull and assess the accuracy of data retrieved. Residents will work with their project team to create an abstract for Vizient's poster session. The poster will be printed prior to leaving for Midyear after a draft is approved by the project team.

Third Quarter: The resident will collect data and implement work flows/policies/guidelines as appropriate for the project while in communication with relevant staff and managers. The resident will continue to facilitate meetings with their project team, and update the project preceptor on a regular basis with their progress. The target for completion of data collection is March 15th, so data can be analyzed by April 15th. Residents will work with their project team to create an abstract for Mountain States Conference.

Fourth Quarter: Statistics and data analysis must be complete by mid-April. The project presentation for Mountain States Conference is prepared by mid-April and practiced twice with the PGY1 research committee prior to May 1st. The project will be summarized in a 15 minute presentation at Mountain States in mid-May. The project manuscript is prepared in May and turned in to the preceptor by June 1st for edits. An edited copy will be sent to the RPD, and a final project form signed by the preceptor and resident will be given to the RPD prior to the resident receiving their graduation certificate.

Evaluation Process:

The preceptor will conduct evaluations at least quarterly. The resident will conduct self-evaluations on the same schedule. The resident will conduct end-of-rotation preceptor and learning experience evaluations.

These evaluations will be posted in PharmAcademic, and must include face-to-face discussions of the progress of the resident in completing his or her project.