

# Appendix: Post-Graduate Year 2 (PGY2) Infectious Diseases Pharmacy Residency Program

## ASHP PGY2 Purpose Statement

PGY2 pharmacy residency programs build on Doctor of Pharmacy (Pharm.D.) education and PGY1 pharmacy residency programs to contribute to the development of clinical pharmacists in specialized areas of practice. PGY2 residencies provide residents with opportunities to function independently as practitioners by conceptualizing and integrating accumulated experience and knowledge and incorporating both into the provision of patient care or other advanced practice settings. Residents who successfully complete an accredited PGY2 pharmacy residency are prepared for advanced patient care, academic, or other specialized positions, along with board certification, if available.

## Purpose Statement

Intermountain Health's mission is to help people live the healthiest lives possible. The purpose of Antimicrobial Stewardship and Infectious Diseases at Intermountain is to ensure safe, efficacious, and cost-effective patient care for patients at risk or being treated for infectious diseases. Within this overarching purpose, the PGY2 Infectious Diseases Pharmacy Residency Program has three main goals: to develop strong clinical infectious diseases knowledge, to hone effective verbal and written communication skills, and to advance their project management and problem-solving abilities. Overall, our goal is to create the best learning environment and accelerate the growth of the resident.

To create a strong base in infectious diseases, the resident will round with multidisciplinary Infectious Diseases Consult Services throughout the system, assist with treatment of complicated patients, delve into the literature to make evidence-based recommendations, and complete infectious diseases-related formulary reviews and quality improvement projects.

To hone informal communication skills, the resident will contribute to essential antimicrobial stewardship activities including conducting prospective audit with intervention and feedback and documenting recommendations for patients leaving the hospital on intravenous antimicrobials. To develop formal communication skills, the resident will be expected to give an ACPE-accredited presentation, present their project at a formal conference (ID specific or Mountain States), as well as provide physician education.

Lastly, to advance project management and problem-solving skills, the resident will be an active member of our system antimicrobial stewardship committee, complete a research project, and assist with technologic improvements to our electronic health record.

## Program Design

### Program Objectives

Please see objectives listed in the American Society of Health-System Pharmacists and Society of Infectious Diseases Pharmacists [Required Competency Areas, Goals, and Objectives for Postgraduate Year Two \(PGY2\) Infectious Diseases Pharmacy Residencies](#)

## Learning Experiences

1. All learning experience descriptions are documented and include:
  - a. a general description, including the practice area and the roles of pharmacists in the practice area;
  - b. expectations of residents;
  - c. educational goals and objectives assigned to the learning experience;
  - d. for each objective, a list of learning activities that will facilitate achievement; and
  - e. description of evaluations that must be completed by preceptors and residents.
2. Preceptors will orient residents to their learning experience using the learning experience description.
3. During learning experiences, preceptors will use the four preceptor roles as needed based on residents' needs.
4. At the start of each learning experience, preceptors orient the residents, provide copies of the educational goals and objectives, describe learning activities, and review evaluation strategy.

## Required Rotations (10)

- Orientation (2-4 weeks\*)
- Antimicrobial Stewardship/ID Consults at McKay-Dee Hospital (4 weeks)
- Antimicrobial Stewardship/ID Consults at Utah Valley Hospital (4 weeks)
- ID Telehealth (4 weeks)
- ID Consults I at Intermountain Medical Center (6 weeks)
- ID Consults II at Intermountain Medical Center (4 weeks)
- Advanced Antimicrobial Stewardship at Intermountain Medical Center (4 weeks)
- Pediatric Infectious Diseases located at Primary Children's Hospital (4 weeks)
- Intermountain Homecare (4 weeks)
- Microbiology Laboratory (2 weeks)
- Antimicrobial Stewardship Leadership and Management (2 weeks)

## Elective Rotations (3)

- Immunocompromised (University of Utah) (4 weeks)
- Outpatient HIV Clinic (University of Utah) (2-4 weeks)
- Solid Organ Transplant at IMC (4 weeks)
- Repeat a required rotation
- Other ideas for elective rotations may be proposed

## Longitudinal Experiences

- Staffing 6<sup>th</sup> floor and psychiatry (UVH) - every 4<sup>th</sup> weekend
- Infectious Diseases Research Project
- Longitudinal Antimicrobial Stewardship Admin and Leadership (includes Intermountain Antimicrobial Stewardship Committee responsibilities, Medication Use Project, and other objectives)

## Example Schedule

Rotation 1	2-4 weeks*	Orientation
Rotation 2	2 weeks	Microbiology Laboratory
Rotation 3	2 weeks	Antimicrobial Stewardship Leadership and Management
Rotation 4	4 weeks	Antimicrobial Stewardship/ID Consults at Utah Valley
Rotation 5	6 weeks	ID Consult I at IMC
Rotation 6	4 weeks	Pediatric Infectious Diseases
Rotation 7	4 weeks	Antimicrobial Stewardship/ID Consults at McKay-Dee
Rotation 8	4 weeks	Intermountain Homecare
Rotation 9	4 weeks	ID Telehealth
Rotation 10	4 weeks	Advanced Antimicrobial Stewardship at IMC
Rotation 11	4 weeks	Elective
Rotation 12	4 weeks	ID Consult II at IMC
Rotation 13	4 weeks	Elective
Rotation 14	4 weeks	Elective

## Service Requirements

- Residents are required to provide staffing support as part of their program and stipend.
- Residents will work a weekend shift (8 hours on Saturday and 8 hours on Sunday) every 4<sup>th</sup> weekend at Utah Valley Hospital in the Infectious Diseases (6<sup>th</sup> and psychiatry floors).
- Residents will work one major holiday.
- The resident is expected to staff at least 24 weekend shifts.

## Project Days for PGY2 Infectious Diseases Resident

- Residents will have one flexible project day per rotation blocks of 4 weeks or greater.
- The resident is expected to complete an 8-hour workday and be on site; however, the resident may work with project advisors and preceptors at other sites if discussed with RPD.
- The project day should be scheduled at the start of the rotation.
- There is no residency project month.

## Topic Discussions

- The resident expected to complete required topic areas as described in the Appendix of the [Required Competency Areas, Goals, and Objectives for Postgraduate Year Two \(PGY2\) Infectious Diseases Pharmacy Residencies](#)
- Progress on completion of these topic discussions will be tracked by the PGY2 ID Pharmacy Resident and discussed during quarterly evaluations.

## Minimum Requirements for Successful Completion

Requirements for successful completion and expectations of the residency program will be documented and provided to applicants invited to interview and will be reviewed upon starting the program. The requirements and progress will be reviewed with the resident at each quarterly evaluation. Failure to meet the minimum requirements by the end of the residency year will result in the resident not receiving a certificate of achievement and will not complete the PGY2 Infectious Diseases Pharmacy Residency Program. Consequences of failure to obtain appropriate licensure, BLS, PALS, or ACLS certification are addressed in General Residency Information section of this manual.

### Minimum requirements include:

1. Pass all collaborative practice agreement competencies.
2. Attainment of “achieved” on at least 75% of all objectives within each of the listed goals with satisfactory progress (SP) on all other objectives not documented as achieved.
3. Successfully completes all required rotations with preceptor engagement for at least 70% of the rotation time.
4. Complete a research project with the following deliverables:
  - a. Deliver a presentation at a conference during the residency year.
  - b. Complete and submit a project manuscript to the residency program director prior to completion of the residency. The report shall be written using a format and style consistent with publication in a professional journal, including background, methods, results, discussion and conclusions. Residents are highly encouraged to submit their project for publication.
5. Complete a drug class review or monograph.
6. Complete a treatment guideline or protocol.
7. Prepare and present a system-level continuing education presentation.
8. Complete all PharmAcademic evaluations and requirements.
9. Complete and track all ID appendix topic discussions.
10. Staff at least 24 weekend shifts.

## Description of Program Specific RAC & Participation in System RAC

The purpose of the Intermountain Healthcare Infectious Diseases (ID) Residency Advisory Committee (RAC) is to provide direction and oversight to the Intermountain PGY2 ID Residency program and ensure compliance with the American Society of Health System Pharmacists (ASHP), Intermountain, and individual facility requirements.

1. The RPD (Residency Program Director) shall serve as Chair and will be responsible for development of the RAC agenda. RAC items may be discussed during a specific section of the Infectious Diseases Pharmacist Meetings or at a separately scheduled meeting.
2. The RPD and one preceptor will represent the ID RAC on the Intermountain System RAC
3. The RPD in conjunction with the ID RAC shall be responsible to:
  - a. Provide oversight of the residents and resident rotations
  - b. Provide guidance on resident project design and presentation(s), and their completion
  - c. Develop an effective mechanism for resident selection
  - d. Address other professional and operational issues relating to the training of residents

- e. Provide advice concerning the future direction of the resident training program
- f. Evaluate the quality and appropriateness of learning experiences, rotations and preceptors
- g. Ensure evaluations are conducted and learning objectives are met
- h. Review each resident's training schedule, rotation plan and objectives
- i. Review and approve resident research projects