

Intermountain Healthcare

PGY1 Pharmacy Residency Program | 2019-2020



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Letter to Prospective Candidates

Thank you for your interest in the Intermountain Healthcare residency programs! We offer a variety of PGY1 and PGY2 training programs, all of which use the ASHP PhORCAS online application process. An overview of our program offerings and instructions on how to apply are provided below. You may also visit our [Pharmacy Residency Program Website](#) for additional details.

Applying to a Hospital-Based PGY1 Pharmacy Program

Intermountain offers a hospital-based PGY1 Pharmacy residency experience at 6 facilities:

- McKay-Dee Hospital, Ogden, UT
- LDS Hospital, Salt Lake City, UT
- Primary Children's Hospital, Salt Lake City, UT (pediatric focus)
- Intermountain Medical Center, Murray, UT
- Utah Valley Hospital, Provo, UT
- Dixie Regional Medical Center, St. George, UT

All facilities work together as part of a unified health system and follow the same set of internal/external standards. Most of these locations are accredited as one, multi-site program (ASHP program code # 87200), except for Dixie Regional Medical Center which is in pre-candidate status with a separate program code (ASHP program code # 87019). This separate code was required due to the location of Dixie Regional Medical Center relative to the other practice sites.

Applications for all programs must be submitted within PhORCAS. When applying to the multi-site PGY1 program (which includes McKay-Dee, LDS Hospital, Primary Children's, Intermountain Medical Center, and Utah Valley Hospital) you can apply to multiple facilities and it will only count as 1 selection. Specifically, when applying to the multi-site program you can apply to each of the facilities independently or can customize your application to that facility, if desired. For instance you could apply to just one facility, such as Primary Children's Hospital; you could apply to all 4 adult hospitals (McKay-Dee Hospital, Utah Valley Hospital, LDS Hospital, and Intermountain Medical Center); or you could apply to all 5 hospitals. Any of these options would only count as 1 PhORCAS selection. After the interview process is completed, you will use the full 6-digit match number to indicate your preference of home base facility when submitting your rank list.

The hospital-based PGY1 program at Dixie Regional Medical Center is in pre-candidate status and will be accredited separately; therefore, it requires a separate PhORCAS application. Likewise, the PGY1/PGY2 Medication-Use Safety and Policy residency, PGY1 Community Pharmacy residency, and PGY1 Managed Care residency also require separate applications.

Applying to another PGY1 or PGY2 Program

Applications to the PGY1 Community Pharmacy, PGY1 Managed Care, PGY1/PGY2 Medication-Use Safety and Policy, or any PGY2 program are submitted as separate applications in PhORCAS. These include the following:

- PGY1 Community Pharmacy
- PGY1 Managed Care
- PGY1/PGY2 Med-Use Safety & Policy
- PGY2 Ambulatory Care
- PGY2 Emergency Medicine
- PGY2 Critical Care
- PGY2 Cardiology
- PGY2 Pediatrics
- PGY2 Infectious Diseases

Deadlines

All application materials must be received by **December 30, 2019** at 11:59 PM Eastern Standard Time (9:59 PM Mountain Standard Time). The PhORCAS portal will close to applicants after that date.

Required Elements for Residency Applications

Applications that are missing any of these required components will not be considered.

- PhORCAS Standard Residency Application
 - Current Curriculum Vitae
 - Three letters of reference, ideally including an employer, using standard ASHP form in PhORCAS
 - College of Pharmacy transcripts (3.0 GPA minimum)
 - If you attended a school that is graded Pass/Fail, you will need to submit a Class Rank. This is currently done outside of the PhORCAS system due to FERPA rules. If needed, we can supply you with a request letter, which can be forwarded to School Administration. The class rank should be sent to Conor Hanrahan (contact information below).
 - Letter of intent
 - Supplemental requirements for the PGY1 Pharmacy hospital-based programs and PGY1/PGY2 Medication-Use Safety and Policy residency (upload the following as supplemental documents in PhORCAS):
 - Answers to the following short essay question (250 words or less): Describe how you handled a mistake you made at work or on rotation. Please explain what happened and comment on your response.
 - Complete recorded video interview questions via the HireVue platform ([click here](#) to access the platform and record your video).
- Employee Application
 - An online Intermountain Healthcare employee application must be completed.
 - Go to www.intermountainhealthcare.jobs and search for “Pharmacist-Resident,” then select the appropriate PGY1 or PGY2 application depending on the program you’re applying to.

Additional Information

With a deadline of December 30th, it is important to have school transcripts sent as soon as possible. Even if Fall grades are not posted, submit transcripts early in December to allow for processing time in the PhORCAS system. Applications without transcripts in the system by the December 30th deadline will NOT be reviewed.

Please note that even with separate match numbers, all hospital-based PGY1 facilities are part of the same system residency program and follow the same standards. Residents will be able to do rotations at any practice site in the Intermountain Healthcare network. Through the match, residents are assigned to a "home base" facility, where initial training, staffing, and most rotations are done; however, up to 3 rotations can be completed at any facility in the system. Based on the number of applications, unfortunately, not all potential candidates may be granted an interview to all facilities and programs.

Residents must be eligible for licensure in the State of Utah. Information on obtaining your Utah pharmacist license is available at the website of the State of Utah Division of Occupational and Professional Licensing at <http://www.dopl.utah.gov/licensing/pharmacy.html>.

If you have any questions, please feel free to contact me via phone or e-mail. We will be contacting qualified applicants by mid-January to schedule on-site interviews. Thank you for your interest in the Intermountain Healthcare Residency Programs.

Respectfully,



Conor Hanrahan, PharmD, BCPS, CPHIMS, CPPS
Medication Policy, Outcomes, and Stewardship Director
PGY1 Pharmacy Residency Program Director
Intermountain Healthcare Pharmacy Services
Sorenson Research Park
4393 South Riverboat Road
Taylorsville, UT 84123
Office: (801) 284-1024 | Mobile: (631) 433-1516
E-mail: conor.hanrahan@imail.org



PGY1 Pharmacy Program Purpose, Vision, & Values

Our Purpose

Postgraduate year one (PGY1) pharmacy residency programs build on Doctor of Pharmacy education and outcomes to contribute to the development of clinical pharmacists responsible for medication-related care of patients with a wide range of conditions. The program also enables learners to sit for board certification and participate in postgraduate year two (PGY2) pharmacy residency training.

First established in 2002, the PGY1 pharmacy residency experience at Intermountain Healthcare is an organized, directed, accredited training program that enhances learner knowledge, skills, attitudes, and abilities. Intermountain's first-year pharmacy residency program builds general competencies in managing medication-use systems and supports optimal medication therapy outcomes for patients with a broad range of disease states.

Our Visions and Values

- Create the **best learning environment** for clinical pharmacy training. Intermountain Healthcare provides an environment dedicated to training drug therapy experts.
- Teach, develop, and produce well-trained health care professionals.
- The program hires and develops qualified preceptors.
- Treat the residents as licensed pharmacists, staff members within the pharmacy department, and as colleagues.
- Provide the **greatest number of opportunities** throughout the enterprise to facilitate the resident's choice of specialty.
- Intermountain maintains and continues to develop rotations in core and specialty areas of clinical pharmacy practice.
- **Develop well-rounded pharmacy practitioners** that patients and providers demand to have as part of their health care team.
- Intermountain preceptors and residents are a recognized value to the health care team and are essential in maximizing patient outcomes.
- Preceptors and residents consistently contribute to the interdisciplinary teams within their respected areas of pharmacy practice.
- **Compete nationally** in all aspects of a residency program and work together to attract the best applicants.

PGY1 Pharmacy Residency Program Locations

Conor Hanrahan, PharmD, BCPS, CPHIMS, CPPS

System PGY1 Pharmacy Residency Program Director



Intermountain Medical Center

504 beds

5 PGY1 residents

Marie Rapier, PharmD, BCCCP

Site Coordinator

Utah Valley Hospital

395 beds

3 PGY1 residents

David Hwang, PharmD, PhD, BCPS

Site Coordinator



McKay-Dee Hospital

321 beds

2 PGY1 residents

Bryce Bitton, PharmD, BCPS

Site Coordinator

Primary Children's Hospital

289 beds
2 PGY1 residents

Nate Gorney, PharmD, BCPS, BCOP
Site Coordinator



Dixie Regional Medical Center

(pre-candidate status)

284 beds
1 PGY1 resident

Andrew Rudolph, PharmD, BCPS, BCCCP
Site Coordinator and Program Director

LDS Hospital

220 beds
1 PGY1 resident
1 PGY1/PGY2 Med-Use Policy resident

Kathryn Guinto, PharmD, MBA, BCPS
Site Coordinator

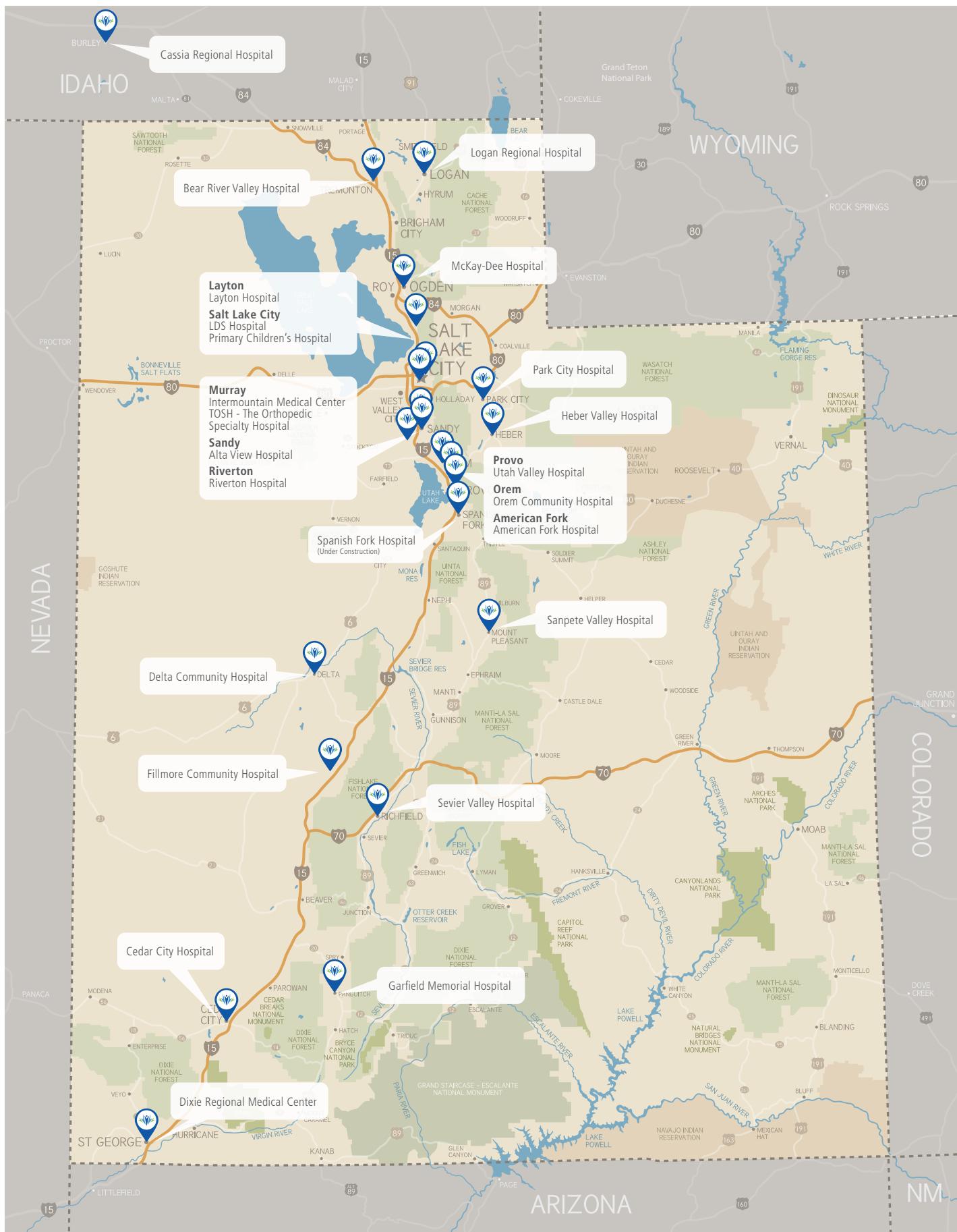


Intermountain Program Codes and Match Numbers

Program	No. Positions	ASHP Code	Facility and Match number
PGY1 Pharmacy Residency* (Various locations)	14	87200	LDS Hospital – 122725 McKay-Dee Hospital – 122726 Primary Children’s Hospital – 122727 Intermountain Medical Center – 122713 Utah Valley Hospital – 122728
			87019 Dixie Regional Medical Center – 278613
Intermountain Healthcare PGY1/PGY2 Medication-Use Safety and Policy (PGY1 at LDS Hospital, PGY2 enterprise-wide scope)	1 PGY1 1 PGY2	87017	Intermountain Healthcare – 257817
PGY1 Community Pharmacy (Enterprise-wide)	2	87011	Intermountain Healthcare – 228615
PGY1 Managed Care (SelectHealth)	2	87103	SelectHealth – 139714
PGY2 Cardiology (Utah Valley Hospital)	1	87012	Utah Valley Hospital – 713267
PGY2 Ambulatory Care (Enterprise-wide)	2	87009	Intermountain Healthcare – 709865
PGY2 Critical Care (Intermountain Medical Center)	1	87005	Intermountain Medical Center – 662652
PGY2 Emergency Medicine (Intermountain Medical Center)	1	87007	Intermountain Medical Center – 702269
PGY2 Pediatrics (Primary Children’s Hospital)	1	87014	Primary Children’s Hospital – 725261

* All Intermountain PGY1 Pharmacy residencies follow the same set of standards and processes

MAJOR FACILITIES



PGY1 Hospital Pharmacy Residents

Class of 2019-2020



Casey Buckway
IMED



Sara Kjerengtroen
IMED



Jessica Le
IMED



Tyler Tinkham
IMED



Jenny Vang
IMED



Margaret Lee
Utah Valley Hospital



Ali Earl
Utah Valley Hospital



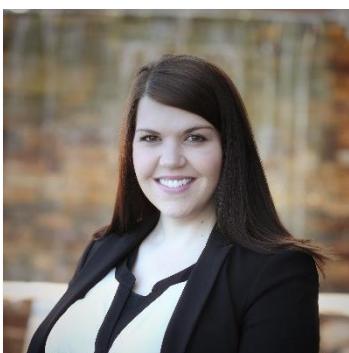
Casey Bryant
Utah Valley Hospital



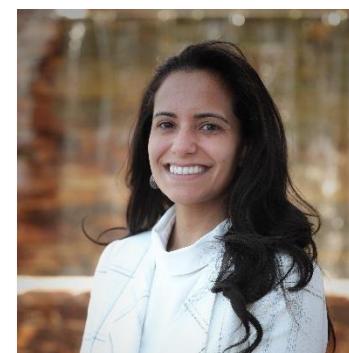
Philip Barker
Primary Children's Hospital



James Hall
Primary Children's Hospital



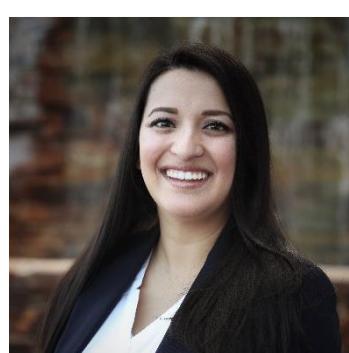
Fran Vakalahi
McKay-Dee Hospital



Lorna Carrasquillo
McKay-Dee Hospital



Yuhong Liu
LDS Hospital



Julieta Lewellyn
LDS Hospital

PGY1 Community and Managed Care Residents | Class of 2019-2020



Brie Landis
Community Pharmacy



Beatriz Jimenez Cadilla
Community Pharmacy

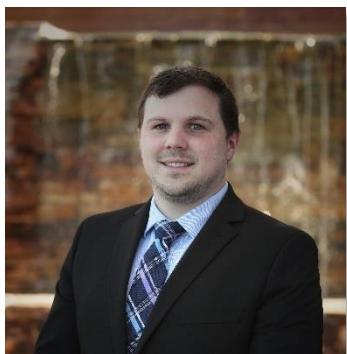


Megan Perius
SelectHealth



Stephanie Byrne
SelectHealth

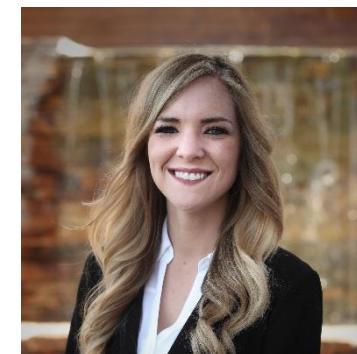
PGY2 Pharmacy Residents | Class of 2019-2020



Wilson Pace
PGY2 Cardiology, UVH



Jordon Cardinal
PGY2 ED, IMED



Rachel Jackson
PGY2 Pediatrics, PCH



Amanda Stefl
PGY2 Ambulatory Care



Patrick Welch
PGY2 Ambulatory Care



Caroline Conner
PGY2 Critical Care, IMED

Resident Geography



PGY1 Pharmacy Program Requirements

The **minimum requirements** for the PGY1 program include the following:

- Complete orientation and 10 learning experiences along with required activities and assignments. Up to 3 learning experiences may be off-site from your home-base facility.
Required learning experiences include the following:
 - Central Operations/Compounding (1 week)
 - Pharmacy Management (4-5 weeks)
 - Medicine (4-5 weeks)
 - Ambulatory Care (4-5 weeks)
 - Critical Care (4-5 weeks)
 - Drug Information (4-5 weeks)

*Required to be completed
at home-base facility*
- Complete one residency research project and start a second project in accordance with the Intermountain Healthcare flipped research model:
 - Complete data collection and analysis
 - Write manuscript
 - Complete CITI training
 - Complete project design
 - Submit for IRB approval
 - Present poster on Project 1 at ASHP's Midyear Clinical Meeting
 - Present final results of Project 1 at Mountain States Regional Residency Conference
- Staff 32 hours per month at home base facility.
- Complete all PharmAcademic evaluations and requirements within 7 days of rotation end.
- Attain “achieved” on at least 75% of all objectives (including 100% of the objectives in competency areas surrounding patient care) within each of the 9 listed goals and attain “satisfactory progress” on all other objectives *not* documented as achieved by the end of the residency year.
- Attend and participate in Core Curriculum Conferences, as scheduled.
- Prepare and present an assigned topic intended for a System-wide Pharmacy and Therapeutics committee meeting or subcommittee meeting.
- Obtain PALS and ACLS certification and participate in management of medical emergencies.
- Complete required teaching activities including:
 - Prepare and present a 1-hour seminar at home base facility for pharmacists.
 - Prepare and present a 1-hour, system-wide broadcasted ACPE-accredited presentation for pharmacists and technicians.
 - Develop and deliver one platform presentation and one poster presentation at a regional, state, national or other approved conference meeting.

- Precept at least 1 student on rotation and demonstrate the ability to effectively assess student performance, including the following:
 - Lead at least 1 topic discussion
 - Lead at least 1 journal club
 - Participate in either a midpoint or final assessment
 - Give meaningful feedback to the student after at least 1 learning activity
- Lead or actively participate in a case-based recitation scenario for students at a college of pharmacy.

Additionally, some residents may choose to pursue an **optional teaching certificate program** to further advance their knowledge. The purpose of the teaching certificate is to provide pharmacy residents with the training necessary to enhance their teaching skills and succeed as a faculty member at a college of pharmacy.

Requirements of the optional teaching certificate include:

- Work with a faculty mentor to develop a personal, written teaching philosophy and maintain a teaching portfolio.
- Develop and deliver a lecture at college of pharmacy to students, which includes practice developing test questions.
- Actively participate in external service experiences, such as a committee appointment for a State-level pharmacy organization (e.g., USHP) or local college of pharmacy (e.g., Roseman University).
- Actively participate in various activities and events at a local college of pharmacy (e.g., committee, simulation labs, additional large or small group student discussions).
- Work with a faculty mentor to discuss scholarship strategies and provide peer review for a journal.
- Engage in additional discussions and workshops:
 - Career development in academia (tenure process, types of professorships, etc.)
 - Academician standards and expectations (review typical requirements around service, scholarship, teaching, etc.)
 - Developing a course curriculum (review how curriculums are set, AACP CAPE educational outcomes, etc.)
 - Unique/advanced teaching methods (flipped classroom, distance learning, etc.)

Note that due to the geographical distance of Dixie Regional Medical Center, some program requirements may be adapted for the resident.



**PHARMACY PGY1 RESIDENCY
PROGRAM TIMELINE
2019 - 2020**

6/24/19 – 8/9/19 System/Facility Orientation Sterile Compounding (7 wks)	9/9/19 – 10/4/19 Rotation 2 (4 wks)	11/4/19 – 11/29/19 Rotation 4 (4 wks)	12/30/19 – 1/24/20 Rotation 5 (4 wks)	3/2/20 – 3/27/20 Rotation 7 (4 wks)	4/27/20 – 5/22/20 Rotation 9 (4 wks)	6/17/20-6/19/20 Program Wrap-up Final Banquet							
6/24/19 – 9/30/19 Quarter 1	10/1/19 – 12/31/19 Quarter 2	1/1/20 – 3/31/20 Quarter 3	4/1/20 – 6/19/20 Quarter 4										
		09/9/19 – 6/12/20 – Longitudinal experience – ½ day per week (optional)											
6/24/19 – 07/05/19 System orientation	8/14/19 – 6/10/20 – Resident's Core Curriculum Conference – Select Wednesdays from 3:30-5:30 PM												
7/8/19 – 7/12/19 Research project #1 selection	Fall 2019 - data collection and analysis for project #1 11/11/19 – ASHP Midyear poster due 12/27/19 – Mountain States Conference slides/abstract due 12/27/19 – finished manuscript for project #1 due	12/20/19 – research project #2 selection 1/31/20 – research project #2 IRB submitted 3/13/20 – sample data population validated 3/27/20 – manuscript #2 background and methods completed	4/27/20 - data validated and data collection tool complete 6/15/20 – data collected on 10 patients										
IRB Training done by 7/8/19	9/19-11/19 Fall seminar at home facility	10/19 – 6/20 – Pharmacy and Therapeutics Committee presentation Lecture to pharmacy students and ACPE accredited seminar broadcast to system	04/1/20 – 5/31/20 Present project to site, RAC, Mountain States										
06/24/19 – 06/19/20 – Maintain PharmAcademic, evaluations, and provide feedback													
7/8/19 – 8/9/19 Site orientation staffing/training	8/10/19 – 6/14/20 – Continuous training and staffing: 32 hrs. per month (Additional shifts worked are paid per diem at pharmacist salary)												
Conferences		12/8/19 – 12/12/19 ASHP Midyear Las Vegas, NV	5/14/20 – 05/15/20 Mountain States Residency Conference										
8/12/19 – 9/6/19 Rotation 1 (4 wks)	10/7/19 – 11/1/19 Rotation 3 (4 wks)	12/2/19 – 12/27/19 Project/Midyear (4 wks)	1/27/20 – 2/28/20 (5 wks, includes interviews)	3/30/20 – 4/24/20 Rotation 8 (4 wks)	5/25/20 – 6/17/20 Rotation 10 (4 wks)								

Rotation Options

INTERMOUNTAIN MEDICAL CENTER

Adult Internal Medicine
Advanced Internal Medicine and Precepting
Ambulatory Care (Anticoagulation, Heart Failure, Internal Medicine)
Antimicrobial Stewardship/Telehealth Infectious Diseases
Cardiology
Cardiothoracic Intensive Care
Coronary Intensive Care
Emergency Medicine
Heart Failure and Transplant/Mechanical Circulatory Support
Medication Safety/Central Operations
Neuroscience Intensive Care and Rehabilitation
Newborn Intensive Care
Pharmacy Practice Management
Respiratory Intensive Care
Shock Trauma Intensive Care
Solid Organ Transplant
Surgical Services

MCKAY-DEE HOSPITAL

Ambulatory Care- Family Medicine Clinic
Antimicrobial Stewardship
Cardiovascular Thoracic
Critical Care
Emergency Medicine
General Medicine
Intermediate care
Medication Safety
Newborn Intensive Care
Oncology
Pharmacy Practice Management
Psychiatry

LDS HOSPITAL

Ambulatory Care
Central Pharmacy
Emergency Medicine
General Surgery
Inpatient Acute Leukemia/BMT
Internal Medicine
Medical- Surgical ICU
Operating Room and Orthopedics
Pharmacy Practice Management
Psychiatry

CENTRAL OFFICE

Drug Information and Formulary Management
Pharmacy Informatics
Practice Management

SELECT HEALTH

Clinical and Formulary Management
Contracting and Industry Relations
Employer/Plan Relationships and Benefit Design
Government Programs
Pharmacy Operations
Specialty/Injectable Benefit Administration

PRIMARY CHILDREN'S HOSPITAL

Cystic Fibrosis Clinic
Emergency Medicine
General Pediatrics
Hematology/Oncology Clinic
Hematology/Oncology/Bone Marrow Transplant
Infectious Disease
Medication Safety
Neonatal Intensive Care Unit (NICU)
Nutrition Support
Pediatric Intensive Care Unit (PICU)
Pharmacy Practice Management
Solid Organ Transplant

UTAH VALLEY HOSPITAL

Cardiac Intensive Care
Cardiology
Emergency Medicine
Infectious Diseases/Antimicrobial Stewardship
Internal Medicine
Internal Medicine- Respiratory/Sepsis
Medication Safety and Education
Neonatal Intensive Care (NICU)
Neuro/Shock Trauma Intensive Care
Outpatient Infusion Services
Pediatrics/Pediatric Intensive Care
Pharmacy Practice Management
Psychiatry

DIXIE REGIONAL MEDICAL CENTER

Critical Care
Emergency Medicine
Ambulatory Care (anticoagulation)
Oncology (infusion clinic)
Management
Others available upon request

AMBULATORY CARE

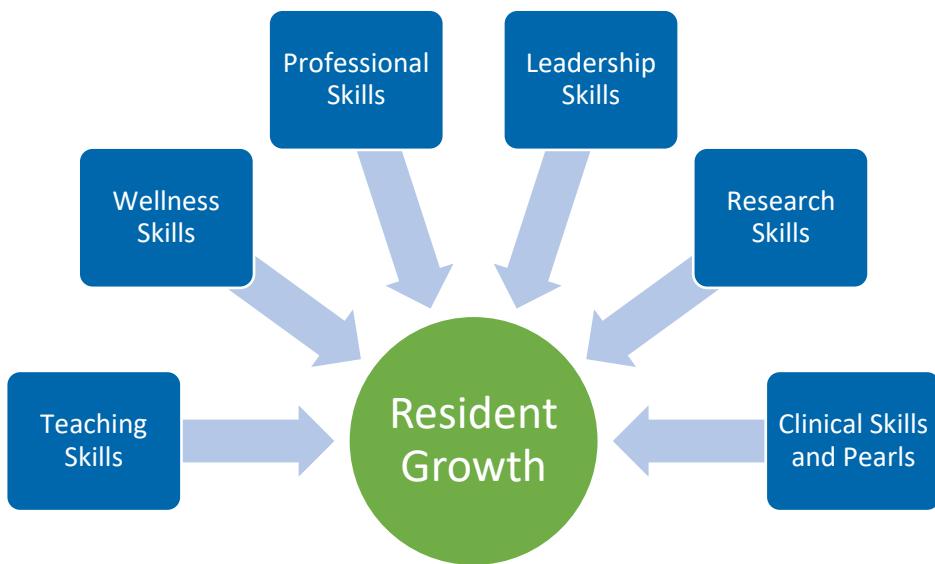
Academia
Anticoagulant Clinic Leadership
Community Care Team
Cystic Fibrosis
Diabetes Management
Family Medicine
Geriatrics
Heart Failure and Transplant
Hematology and oncology
Internal Medicine
Pain Management
Practice Management
Psychiatry
Transitions of Care
Transplant Clinic (Adult/Peds)

Core Curriculum Series (2019-2020)

Purpose

The purpose of the Core Curriculum Series is to support resident growth and development as a pharmacy practitioner, and supplement the training received during rotations. The curriculum is also designed to promote resident collaboration and wellness throughout the training year. Topics are divided into 6 key domains, as outlined in Figure 1. While some of these domains will be grouped together during consecutive meetings, others may be taught longitudinally throughout the year. Additional details on each domain are outlined below.

Figure 1. Core Curriculum Training Domains



Teaching Skills: This domain is designed to help residents become a successful pharmacy preceptor and educator. Through this module residents will learn the 4 precepting roles, how to prepare presentations, strategies for dealing with difficult learners, techniques for active learning, and much more. Residents who choose to participate in the optional teaching certificate program will be required to take more advanced topics in this domain outside of the Core Curriculum Series.

Wellness Skills: The activities in this domain are intended to support the emotional wellbeing of residents and equip learners with the life skills needed to function in today's stressful health care environment. This module will be taught longitudinally throughout the Core Curriculum Series and will include topics such as time management, mindfulness, developing resilience, conflict management, and embracing uncertainty. In addition, residents will schedule and attend a face-to-face, private wellness appointment with an Employee Assistance Program (EAP) therapist in October or November. This appointment will be a supportive check-in and residents should come prepared to

discuss any challenges they are facing, their stress level, etc. Additional appointments should be scheduled at the resident's discretion.

Professional Skills: These activities are designed to enhance the resident's professional growth in a variety of areas such as medical writing, medication safety, quality improvement, interview skills, etc. The topics taught in this domain form the foundation for a highly functioning professional.

Leadership Skills: This domain is intended to advance the resident's understanding of leadership in today's pharmacy practice model. As part of this module, residents will also learn about the importance of emotional intelligence and will participate in the StrengthsFinder® 2.0 self-assessment.

Research Skills: The activities in this domain are designed to support residents in achieving their research goals under the new flipped research model at Intermountain Healthcare. Residents will learn how to use Microsoft® Excel®, analyze data using descriptive and analytical approaches, understand the Institutional Review Board (IRB), and work directly with data analysts during open research labs.

Clinical Skills and Pearls: While most clinical learning occurs during patient care rotations, there are some topics that residents may not be exposed to during their training year. As such, this learning domain will highlight unique topics in pharmacy to ensure adequate resident exposure. Examples of clinical pearl topics discussed include pharmacogenomics, parenteral/enteral nutrition, and managing continuous glucose monitoring devices.

Meeting Cadence and Schedule

The 2019-2020 Core Curriculum Series will occur every other Wednesday from 3:30 PM to 5:30 PM starting on Wednesday, August 14, 2019. Most meetings will be hosted at the central Pharmacy Services offices; however, some meetings may be held off-site. A full meeting schedule is outlined in Table 1.

Expectations and Attendance

Attendance at the Core Curriculum Series is mandatory for PGY1 Pharmacy, PGY1 Community Pharmacy, PGY1 Medication Safety/Policy, and PGY1 Managed Care residents. Attendance will be recorded at each session and any absences must be authorized by the residency program director and site coordinator (if applicable). Attendance for PGY2 residents is at the discretion of the PGY2 residency program director. Residents are expected to actively participate in discussions and to be prepared by reading background/supplemental materials, as assigned.

Standing Agenda Items

Each Core Curriculum Conference meeting will begin with a connect to mission or wellness moment, with time for group sharing and discussion. Each session will close with a group wrap-up and feedback moment. The topics for the next Core Curriculum meeting will also be reviewed.

2019-2020 Resident Core Curriculum Schedule

Date	Topic (Location)	Preceptor	Location
Aug 14, 2019	Tour of LDS Hospital Wellness Skills 1 <ul style="list-style-type: none"> – Personal accountability and time management Professional Skills 1 <ul style="list-style-type: none"> – Continuous improvement – Medication safety 	Kathryn Guinto EAP - David Rathoner Michael O'Connor Michael O'Connor	LDS Hospital, Classrooms D/E
Aug 28, 2019	Tour of Intermountain Medical Center Teaching Skills 1 (precepting focus) <ul style="list-style-type: none"> – Precepting and the 4 preceptor roles (including developing topic discussions, rotation activities, etc.) – Giving and receiving effective feedback 	Marie Rapier Dustin Grant/ Tressa McMorris Conor Hanrahan	Intermountain Medical Center, Doty Education Center, Classroom 2
Sept 11, 2019	Tour of Primary Children's Hospital Teaching Skills 2 (didactic focus) <ul style="list-style-type: none"> – Preparing presentations (finding content, preparing slides, etc.) – Writing Objectives – Writing assessment question – Spring CE Expectations 	Emily Benefield Emily Benefield Elizabeth Sebranek-Evans	Primary Children's Eccles Outpatient Building, Lone Peak Conference Room
Sept 25, 2019	Tour of Utah Valley Hospital Teaching Skills 3 (misc. topics) <ul style="list-style-type: none"> – Active learning techniques – How to handle difficult students 	Traci Christiansen Traci Christensen Simon Pence	Utah Valley Hospital, Classroom 7
Oct 9, 2019	Tour of McKay-Dee Hospital Research Skills 1 <ul style="list-style-type: none"> – Microsoft Excel® and data extraction methods – Statistical methods and analysis 	Tim Drake Richard Ensign Richard Ensign	McKay-Dee Hospital, Pharmacy Conference Room
Oct 23, 2019	Wellness Skills 2 <ul style="list-style-type: none"> – Building life resilience Research Skills 2 <ul style="list-style-type: none"> – Research lab and discussion time 	EAP - Barbara Lester Richard Ensign/data analysts	Sorenson Executive Conference Room
Nov 6, 2019	Professional Skills 2 <ul style="list-style-type: none"> – CV and cover letters – Mock interviews 	Various TBD Various TBD	Sorenson Executive Conference Room
Nov 20, 2019	<i>Off-site resident team building retreat in afternoon, plus etiquette dinner in evening</i>	Conor Hanrahan (host)	TBD
Dec 4, 2019	Midyear prep and logistics Research Skills 3 <ul style="list-style-type: none"> – IRB overview 	Richard Ensign	Sorenson Executive Conference Room

Date	Topic (Location)	Preceptor	Location
	<ul style="list-style-type: none"> – Research design and methods – Research help open forum 	Conor Hanrahan Richard Ensign/data analysts	
Dec 8-12, 2019	<i>ASHP Midyear Meeting in Las Vegas, NV</i>	---	---
Dec 18, 2019	Midyear debrief Professional Skills 3 <ul style="list-style-type: none"> – Medical writing and publishing Research Skills 4 <ul style="list-style-type: none"> – Research help open forum 	Conor Hanrahan Conor Hanrahan Richard Ensign/data analysts	Sorenson Executive Conference Room
Jan 8, 2020	Wellness Skills 3 <ul style="list-style-type: none"> – Conflict management Clinical Skills and Pearls 1 <ul style="list-style-type: none"> – Parenteral and enteral nutrition 	EAP - Curtis Hooker TBD, PGY2 Resident	Sorenson Executive Conference Room
Jan 15, 2020	<i>Mid-residency review and discussion</i>	Conor Hanrahan	
Jan 29, 2020	<i>Mountain States practice presentations</i>	Residents	
Feb 12, 2020	<i>Mountain States practice presentations</i>	Residents	
Feb 26, 2020	Wellness Skills 4 <ul style="list-style-type: none"> – Embracing uncertainty Clinical Skills and Pearls 2 <ul style="list-style-type: none"> – Continuous glucose monitoring devices – Checking oncology orders 	EAP Amanda Stefl; Patrick Welch Megan Mullalley	Sorenson Executive Conference Room
Mar 11, 2020	Clinical Skills and Pearls 3 <ul style="list-style-type: none"> – Pharmacy informatics and technology – Pharmacogenomics 	TBD Christine Formea	Sorenson Executive Conference Room
Mar 25, 2020	<i>Off-site resident team building retreat</i>	Conor Hanrahan	
April 8, 2020	Leadership Skills 1 <ul style="list-style-type: none"> – Leadership overview and discussion – Emotional intelligence – StrengthsFinder® 	Sabrina Cole Sabrina Cole Conor Hanrahan	Sorenson Executive Conference Room
April 22, 2020	Leadership Skills 2 <ul style="list-style-type: none"> – Writing a business plan – Leading a team – Professional advocacy 	TBD TBD Gabe Fontaine	Sorenson Executive Conference Room
May 6, 2020	<i>Group panel discussion with incoming class</i>	Conor Hanrahan	
May 20, 2020	Wellness Skills 5 <ul style="list-style-type: none"> – Thriving in change Clinical Skills and Pearls 4 <ul style="list-style-type: none"> – Solid organ transplant – TBD topic 	EAP TBD TBD	Sorenson Executive Conference Room
June 3, 2020	<i>Exit interview and end-of-residency review</i>	Conor Hanrahan	

PGY1 Residency Continuous Improvement

Recent examples of continuous improvement changes to the PGY1 training program:

- Made the teaching certificate optional and more focused on academia, as well as standardized the requirements, process, and tools
- Implemented a flipped research model to address prior delays in research publication and IRB approval; residents are now able to present final result at ASHP Midyear and develop a second research project during the latter half of the year
- Allowed for one flexible project day per rotation*
- Incorporated resident wellness and emotional resilience support into the program, including:
 - Increased Employee Assistance Program (EAP) exposure
 - Clear communication of resources and increased accessibility (tele-EAP visits)
 - Wellness support meetings
 - One scheduled EAP wellness appointment in Fall
 - Topic presentations at Core Curriculum
 - Social support and team building
 - Designate lead resident over social activities
 - Spring and Fall resident retreats/activities
 - Residency Advisory Committee (RAC) wellness subgroup
 - Wellness moments during group meetings
 - Destigmatize and share experiences
 - Preceptor development
- Provide introductory electronic health record training at orientation*
- Take residency class pictures in the morning*
- Created a central Teams repository to house residency class documents and resources
- Incorporated rating scale definitions directly in PharmAcademic
- Optimized seminar and continuing education program schedule, as well as resident deadlines
- Allow some required rotations to be taken off-site from home-base facility; doing so greatly increases resident flexibility in selecting rotations

Historical examples of continuous program improvement:

- Standardize method for recording and submitting CMS hours and precepting time
- Provide handouts prior to Core Curriculum sessions*
- Provide list of discount hotels with interview invites*
- Include research 101 talk during orientation*
- Provide training on giving feedback/self-reflection during orientation*
- Reorganized Core Curriculum into modules by topic*
- Removed duplicate statistics review- Drug Info and Core Curriculum*
- Extended System Orientation to increase efficiencies in training
- Created a standard resident presentation evaluation form for all programs

- Created a preceptor development plan for use by all preceptors in training
- Added a Preceptor Tool Box and precepting articles to internal website
- Better defined rating scales with definitions for NI/SP/ACH/ACHR
- Developed a new method of data acquisition for resident projects to allow for faster access to data earlier in the residency year
- Standardized manuscript format
- Better aligned research deadlines to match key landmarks through the project manuscript process
- Standardize process for lecture selection*
- Provide all residents with laptops and remote access*
- Hold mock Interviews during the Core Curriculum Series
- Standardized required rotations across sites*
- Standardized staffing start date across all sites*
- Provided training in PharmAcademic during orientation*
- Standardized holiday staffing requirements and pay*
- Arranged for residents to all stay together at Midyear*
- Introduce PGY2 directors at orientation for early commit purposes*
- Modified application scoring rubric
- Coordinated interviews at select sites so candidates can interview at 2 sites/day
- Coordinated interview dates so RPD can attend each interview
- Developed Multi-Site Program policy in accordance with new PGY1 accreditation standard
- Updated policy and procedures in residency manual to reflect requirements in new accreditation standard
- Create “Clinical Core Curriculum” across the system to cover basics everyone should know*

** implemented based on direct resident feedback*

Past Resident Project List

Class of 2019-2020

Resident	Title
Casey Buckway IMED	Assessment of optimal P2Y12 inhibitor prescribing practices
Sara Kjerengtroen IMED	Evaluating 4-Factor prothrombin complex concentrate anticoagulation reversal in obesity
Jessica Le IMED	Hyperkalemia and elevated serum digoxin concentrations: impact on mortality
Tyler Tinkham IMED	Efficacy and cost analysis of CMV prophylaxis in liver transplant recipients
Jenny Vang IMED	Appropriateness of pneumococcal vaccine administration
Ali Earl UVH	Patient outcomes in ampicillin-resistant Enterococcal UTI treated with amoxicillin
Casey Bryant UVH	A retrospective efficacy and safety analysis of low dose versus high dose 4-factor prothrombin complex concentrate for the management of factor Xa inhibitor-related bleeding
Philip Barker PCH	Evaluation of a Standardized Hydration Protocol in Hospitalized Pediatric Patients with Cystic Fibrosis Receiving Nephrotoxic Antibiotics
James Hall PCH	Assessment of the implementation of an emergency department care process model for pediatric urinary tract infection
Fran Vakalahi McKay-Dee	Cost-minimization analysis of oral antimicrobial therapy for gram negative bacteremia
Lorna Carrasquillo McKay-Dee	Association of pain scores and pain medication administration
Yuhong Liu LDS Hospital	Evaluation of compliance with a system wide ertapenem criteria restriction and the restriction's impact on days of therapy
Julieta Lewellyn LDS Hospital	Retrospective efficacy analysis of decitabine and cytarabine for induction therapy in patients with acute myeloid leukemia (AML)
Briee Landis Community	Impact of prescription synchronization on medication adherence at health system community pharmacies
Beatrix Cadilla Community	Health system implementation of Refill Authorization Collaborative Practice Agreement between physicians and pharmacist in multiple community pharmacies

Stephanie Byrne SelectHealth	The impact of strict prior authorization criteria on utilization of subcutaneous calcitonin gene-related peptide inhibitors for the prevention of chronic and episodic migraine: An observational study
Wilson Pace PGY2 Cards	
Jordan Cardinal PGY2 ED	Retrospective review of beta-lactam drug challenges in patients with listed penicillin and cephalosporin allergies in the Emergency Department setting
Rachel Jackson PGY2 Peds	Safety and Efficacy of CD3 Guided Anti-Thymocyte Globulin Dosing After Pediatric Heart Transplant
Amanda Stefl PGY2 Amb Care	Impact of continuous glucose monitor use on quality of life, self-care, and A1c levels for patients with type-2 diabetes
Patrick Welch PGY2 Amb Care	
Caroline Conner PGY2 Critical Care	Epidemiology and resistance rates of Candidemia in intensive care unit patients

Class of 2018-2019

Resident	Title
Jordan Gabrielsen IMED	Factors associated with inappropriate inpatient apixaban prescribing practices
Brooke Hueftle IMED	Assessment of duration and de-escalation of vancomycin in patients with febrile neutropenia
Wilson Pace IMED	Catheter associated urinary tract infection reduction in the neuro critical care unit: a pre/post protocol study
Lauren Schumacher IMED	Anticoagulation in post-liver transplant recipients with portal vein thrombosis
Emily Siegrist IMED	Weight-based versus flat dosing of digoxin loading doses
Alyssa Strohbusch McKay-Dee	Evaluation of multimodal tranexamic acid administration on patient hemostatic status post total joint arthroplasty
Patrick Welch McKay-Dee	Implementing clinical pharmacist services for hypertensive patients in a primary care setting
Jeremy Daugherty PCH	Description of bivalirudin anticoagulation in pediatric patients with ventricular assist devices
Logan Peterson PCH	Liposomal amphotericin B associated nephrotoxicity in obese and non-obese patients

Tyler Gunderson UVH	Comparing rates of constipation in TKA/THA patients after implementation of a bowel care program
Ashley Holombo UVH	Impact on time to tPA administration comparing medication preparation location in patients with presumed acute ischemic stroke in the emergency department
Rachel Jackson UVH	Evaluation of the effect of SMOFlipid versus intralipid on TPN-induced cholestasis in the neonatal population
Brooke Miller Community	Naloxone dispensing rates in a hospital-based community pharmacy: A retrospective study
Austin Reese Community	Community pharmacist's role in naloxone distribution during the post-operative period: a retrospective, single center, observational study
Mohit Bhakta SelectHealth	Increased risk of cardiovascular event following prescription testosterone therapy in men
Andrew Gudac SelectHealth	Naloxone utilization in an insured patient population at risk of opioid overdose
Danielle Nguyen HSPA PGY2	Impact of pharmacist-delivered inpatient medication counseling on 30-day readmission rates
Philip Bassett Amb Care PGY2	Clinical pharmacists' interventions using a standardized comprehensive medication management process in an ambulatory care setting
Alex Boyd Amb Care PGY2	Impact of comprehensive medication management (CMM) on transitions of care following hospitalization
Jordan Lacoste Cardiology PGY2	Outcomes associated with optimization of guideline directed medical therapy (GDMT) in patients admitted for an acute heart failure exacerbation
Breyanna Reachi Critical Care PGY2	4-Factor prothrombin complex concentrate (4FPCC) dosing strategies: a retrospective evaluation
Elyse Schwab-Daugherty Emergency Medicine PGY2	Appropriate utilization of alteplase for the treatment of pulmonary embolism within Intermountain Healthcare
Valerie Tran Pediatrics PGY2	Retrospective review of the treatment of central line infections in pediatric oncology patients

Class of 2017-2018

Resident	Title
Kate Harper LDS Hospital	Weight-based enoxaparin prophylaxis and low-molecular weight anti-Xa monitoring in obese patients undergoing therapy for hematological malignancies

*Andrew Keim McKay-Dee	Pharmacist medication counseling referrals and their impact on HCAHPS
*Sarah Iannacone McKay-Dee	Combination of opioids with multiple sedative medications and incidence of naloxone administration in hospitalized patients
*Danielle Nguyen IMED	Incidence of invasive candidiasis and risk factors in early post liver transplant recipients
Christa Creech IMED	A multi-center retrospective study evaluating the utility of MRSA nasal PCR swabs to reduce time to antimicrobial de-escalation in HAP and VAP patients
Ayrron Sisley IMED	Intravenous immunoglobulin usage pattern in neonates at a multicenter health system
*Elyse Schwab-Daugherty IMED	Outcomes associated with timing of parenteral anticoagulation after administration of alteplase for the treatment of venous thromboembolism
*Philip Bassett IMED	Evaluation of the effect of compliance to an institutional nursing-driven heparin protocol on time to therapeutic aPTT range
Brandon Tittle IMED	Clinical impact of rapid diagnostic tests with and without real-time pharmacist notification
Miranda Lackie IMED-PGY2 CC	Safety and efficacy of non-steroidal anti-inflammatory drugs in aneurysmal subarachnoid hemorrhage
Ruixin Shi IMED-PGY2 ED	Patient utilization of prescription opioids after discharge from the emergency department
Amanda Gillispie PCH	Retrospective analysis of the utilization of antibiotics in the treatment of pulmonary exacerbations in pseudomonas negative CF patients
*Valerie Tran PCH	Differences in initial tacrolimus dosing and monitoring for pediatric heart, liver, and kidney transplant recipients
*Trey Smith Primary Children's-PGY2	Pharmacokinetic modeling for initial and maintenance heparin dosing in patients receiving extracorporeal membrane oxygenation
Andy Killpack Select Health	1. Four-year opioid prescribing trends in a commercially insured patient population 2. Impact of 7-day first-fill opioid prescribing in a commercially insured patient population
Bailee Binks UVH	The impact of G-CSF in patients admitted for the treatment of neutropenic fever
Donna Eom UVH	Postoperative fluid management in open-heart surgery: albumin versus normal saline
Haili Gentry UVH	The role of IV acetaminophen in post-surgical patients

Allison Tenhouse Utah Valley- PGY2 Card	Comparison of direct oral anticoagulants in obese patients with recurrent venous thromboembolism
Carolyn Garland PGY2- Am Care	Extended-interval home INR testing
*Monica Rauch PGY2- Am Care	liraglutide impact on new onset heart failure
Melinda Gonzales Community	Community pharmacist led cost consults: patient and health system costs, benefits, and predictions
Dylan Nelson HSPA PGY2	A pilot project examining the benefits of pharmacist interventions utilizing TeleHealth services

Class of 2016-2017

Resident	Title
*Ryan Jensen LDS Hospital	Amlodipine and calcineurin inhibitor induced renal dysfunction following allogeneic hematopoietic stem cell transplantation
*Anthony Putich McKay-Dee	Does pharmacist-driven nasal swab methicillin-resistant staphylococcus aureus (MRSA) PCR screening decrease time to de-escalation of MRSA coverage in patients with pneumonia?
*Gavin Gardner McKay-Dee	Rate of naloxone use in patients receiving an opioid compared to those using opioids and a sedative/hypnotic medication
Dylan Nelson IMED	A comparison of extended interval and conventional gentamicin dosing protocols on renal function in preterm neonates born less than 30 weeks gestation
Lauren Flieller IMED	Clinical value of the co-administration of albumin and furosemide in cirrhotic patients
Joshua Jacobs IMED	Antithrombotic use for acute ischemic stroke secondary to infective endocarditis and the risk of major hemorrhage: a multi-center retrospective cohort study
Kyle Malhotra IMED	Apixaban vs warfarin in severe renal dysfunction
Klay Ryman IMED	Comparing time to CABG in STEMI patients loaded with P2Y12 inhibitors versus those who were not
Ruixin Shi IMED	Influenza infection and the risk of thromboembolic events in critically ill patients
Alina Kurita IMED-PGY2 CC	Hyperchloremia and incidence of acute kidney injury in adult patients with traumatic brain injury
Michelle Adamcyk IMED-PGY2 ED	Evaluation of ketamine for refractory status epilepticus

Christian Armstrong PCH	Evaluation of sodium glycerophosphate versus inorganic phosphates in the incidence of metabolic bone disease in premature neonates
*Trey Smith PCH	Assessing heparin flow rates in patients on Extracorporeal Membrane Oxygenation (ECMO)
*Chelsea Williams Primary Children's PGY2	Treatment of delirium in pediatric critically ill patients
Kyle Stirewalt Select Health	1. Rates of serious adverse events associated with targeted biological therapies in the treatment of inflammatory diseases at a managed care plan: A historical claims analysis 2. Costs of serious adverse events associated with targeted biological therapies in the treatment of inflammatory diseases at a managed care plan and their incorporation into the formulary decision process
*Rebecca Christiansen UVH	Evaluating mortality in patients with massive pulmonary embolism receiving low dose versus standard dose tissue plasminogen activator (tPA)
Andrew Good UVH	Compilation of antibiotic susceptibility of uropathogens in the emergency department to create a department specific antibiogram
*Aubrey Pimsakul UVH	Utilization of 340B funding to develop a pharmacy driven diabetes starter kit for pediatric patients newly diagnosed with diabetes during hospital admission
Melanie Madorsky UVH - PGY2 Card	Antithrombotic strategies utilized for the secondary prevention of ischemic stroke in patients with atrial fibrillation on warfarin
Diana Fischer PGY2- Am Care	Development of a scoring tool to identify patients to target during pharmacist-provided transitions of care medication reconciliation
Hannah Pratt PGY2- Am Care	Efficiency and economic implications of collaborative pharmacist support in primary care
Keeshia Christensen Community	Effect of discharge medication delivery service on medication adherence
Nicole Dimaano HSPA PGY2	Impact of pharmacist-delivered inpatient medication counseling on 30-day readmission

Class of 2015-2016

Resident	Title
Hannah Pratt McKay-Dee	Cost justification of a transitions of care pharmacist
Annie Torosyan McKay-Dee	Assessment of the treatment of bacteremia by pharmacists versus the historical standard of care in a community hospital emergency department
*Carly Heyrend, PGY2 PCH	Use of antithrombin III in pediatric patients receiving heparin

Holly Ann Russell PCH	Safety and efficacy of high dose cefepime in pediatric cystic fibrosis patients
*Chelsea Williams PCH	Use of second generation antipsychotics for delirium in critically ill pediatric patients
Laura MacCall IMED PGY2 ED	Impact of antibiotic stewardship on appropriate antibiotic prescribing for urinary tract infection in the emergency department
Alex Serafino IMED PGY2 CC	Venous thromboembolism associated with the use of tranexamic acid
Nicole Dimaano IMED	Meeting expectations: do HCV cure rates (SVR12) in real-life patient cohorts hold what clinical trials promised?
Dan Fischer IMED	Prothrombin complex concentrates vs fresh frozen plasma for the emergent reversal of warfarin-related intracranial hemorrhage
*Lilian Ooi IMED	Diagnostic performance of the methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) nasal swab PCR for MRSA pneumonia
Regan Sevinsky IMED	Assessment of febrile neutropenia management in hospitalized adult cancer patients; a retrospective review
*Joshua Lee UVH PGY2 Card	Implementation of an ambulatory heart failure clinic
*Caleb Hopkinson UVH	Length of hospital stay and outcomes in patients with venous thromboembolism: comparison of different anticoagulant regimens
Halee Namanny UVH	Incidence of methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) and nephrotoxicity in patients empirically treated with vancomycin
Ali Pryne UVH	Retrospective evaluation of safety and efficacy in the treatment of cervical artery dissection at a large, multi-site healthcare facility
*Whitney Mortensen Admin PGY2	An academic detailing pilot program in a large, integrated health system
Josh Rickard Am Care PGY2	Frequency of toxicity monitoring in ambulatory patients on amiodarone and dofetilide
*Bradly Winter Am Care PGY2	Assessing the need and opportunity for clinical pharmacist involvement in renal dosing of novel oral anticoagulants (NOACs)
*Chance Keddington Community	Diabetic education and impact on diabetic outcomes
Thomas Nguyen SelectHealth	Comparison of clinical outcomes of diabetes medications added to metformin for treatment of type 2 diabetes mellitus in a managed care plan: a historical cohort study Evaluation of an Opioid Medication Management Agreement (MMA) Program Among Commercial Health Plan Members: A Retrospective Claims Analysis

Class of 2014-2015

Resident	Title
Mallory McCullough McKay-Dee	Evaluating the risk of nephrotoxicity in different interval regimens of vancomycin
*Renee Pitt McKay-Dee	Measuring hospitalists' perception of pharmacist participation on a rounding team
*Angela Wolsey PCH	Efficacy of unfractionated heparin monitored by anti-Xa versus aPTT
*Brian Wyrowski PCH	Standardization of weaning process for iatrogenic opioid withdrawal in pediatric intensive care unit patients
Kellie Holtmeier PCH	Outcomes of parenteral nutrition-associated cholestasis in pediatric patients
Kristin Martinez IMED	Time to clinical stability in patients diagnosed with pneumococcal pneumonia in obese versus non-obese patients
*Scott Parkin IMED	Efficacy of a single vs. dual antibiotic agent prophylaxis in open fracture patients
*Vidya Pugazhenthi IMED	Outcomes of a pharmacist-managed glucose collaborative practice agreement at Intermountain Medical Center
*Joshua Lee UVH	Evaluation of antimicrobial management of urinary tract infections at a tertiary hospital
Melissa Selden UVH	A retrospective cohort study of a pharmacist-managed Transition of Care program and its effect on 30-day readmission rates
*Steven Metz UVH	A retrospective controlled trial assessing procalcitonin to guide antibiotic therapy
*Whitney Mortensen Admin PGY1	Evaluating the appropriate use and indications of atypical antipsychotics in patients discharged from an inpatient setting
*Alan Horrocks Admin PGY2	Health-system implementation and evaluation of a revised pharmacy technician professional development program
*Stephanie Chauv IMED, PGY2 Critical Care	Colonization secondary to resistant microorganisms in patients on prolonged systemic antibiotic prophylaxis for intracranial pressure monitoring
*Cody Olsen SelectHealth	Changes in Anti-hyperlipidemic Drug Utilization Post 2013 ACC/AHA Treatment of Blood Cholesterol Guideline Release: A Retrospective Claims Analysis Evaluation of an Opioid Medication Management Agreement (MMA) Program Among Commercial Health Plan Members: A Retrospective Claims Analysis

Class of 2013-2014

Resident	Title
*Brittany Bryan McKay-Dee	Evaluation of skin and soft tissue clinical pathway in reducing ertapenem use in the emergency department at a 325 bed community hospital
*Brittan Jacklin McKay-Dee	Effects of rounding serum creatinine on estimated creatinine clearance in elderly patients with a serum creatinine less than 1 mg/dL
*Michael Helm PCH	Metabolic monitoring and body mass index changes in pediatric patients treated with second generation antipsychotics
Michael Lahart PCH	Assessing the adequacy of standardized multi-vitamin supplementation in short-bowel syndrome patients
*Anh Lam PCH	Retrospective analysis of intravenous versus oral antivirals for cytomegalovirus prophylaxis in pediatric hematopoietic stem cell transplant recipients.
Becca Dieter IMED	Laparoscopic donor nephrectomy and primary post-operative pain control therapy
*Crosby Oldham IMED	Evaluating clinical outcomes based on pharmacologic variability of oral antiplatelet agents in the setting of acute coronary syndrome (ACS)
Amy Sannes IMED	The Impact of Pharmacist Culture Follow-Up on Antimicrobial Therapy for Emergency Department Patients
Ashley Richman UVH	A retrospective evaluation of prothrombin complex concentrate (PCC) safety and efficacy outcomes for emergent warfarin reversal according to corporate protocol
Sadie Roestenburg UVH	Pharmacy Driven Scoring and Alert System Identifying Hypoglycemia Risk Among Rehab Patients
Ndidi P. Alino Admin	Impact of venous thromboembolism (VTE) quality measures on post-surgical mortality and morbidity in an integrated healthcare system.
*Alan Horrocks IMED/Admin	Pharmacist-driven management of hyperglycemia in a non-ICU setting: evaluation of a collaborative practice protocol in comparison to other methods of glycemic control for patients with acute coronary syndrome
*Gabe Fontaine IMED, PGY2	Incidence of venous thromboembolism (VTE) in medical and critically ill obese patients receiving VTE chemoprophylaxis
*Liz Schwab SelectHealth	Impact of healthcare reform on contraceptive utilization patterns and adherence

Class of 2012-2013

Resident	Title
Madison Hatch McKay-Dee	Oral β -lactams versus oral fluoroquinolones in the treatment of urinary tract infections
*Leah Quealy McKay-Dee	Efficacy of vancomycin loading doses in critically ill patients with methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)
Travis Hunt PCH	Sterility Analysis of Cystic Fibrosis Liquid Multivitamins
*Irasema Paul PCH	Predictive monitoring of zinc, copper, manganese, selenium, and iodine to maintain serum concentrations in parenterally fed pediatric patients
*Gabriel Fontaine IMED	Rate of major bleeding in patients with atrial fibrillation taking dabigatran or rivaroxaban in a real-world setting
*Shannon Inglet IMED	Seizure Prophylaxis in Patients with Traumatic Brain Injury
*Jacob Blackham UVH	The Clinical and Financial Impact of Implementing a Medication Assistance Voucher Program Under the 340B Drug Pricing Program
Kelly Holcomb UVH	Implementation of a pharmacist-driven pertussis vaccination clinic at a community hospital
Jason Braithwaite Admin	Defining the impact of central fill services on outpatient pharmacies in an integrated delivery system utilizing time and motion methodology
Ndidi P. Alino IMED/Admin	Implementation of Pharmacist-managed Transitions of Care Program at Intermountain Medical Center

Class of 2011-2012

Resident	Title
*Justin Palfreyman McKay-Dee	Cost effectiveness of a clinical pharmacist on the surgical floor
*Natalie Savage McKay-Dee	Prothrombin Complex Concentrate (PCC) alone versus Factor VIIa and PCC to rapidly reverse elevated INR
*Nathan Gorney PCH	Comparing the efficacy of rifaximin versus lactulose for the treatment of pediatric hepatic encephalopathy
*Jake Luke PCH	Evaluation of antibiotic use and effectiveness in the treatment of necrotizing enterocolitis in NICU patients

Jordan Sheffer PCH	Dosage of carnitine supplementation in total parenteral nutrition in pediatric patients: a retrospective analysis
*Ryan Cardon IMED	Retrospective analysis comparing daily prophylactic sulfamethoxazole/trimethoprim 800/160 mg to 400/80 mg and 30-day incidence of UTI in adult kidney transplants
*Erin Grussendorf IMED	Evaluation of efficacy and tolerability of medications for seizure prophylaxis following subarachnoid hemorrhage
*Quang Hoang IMED	Retrospective analysis of antibiotic-induced mild-moderate and severe C-diff associated diarrhea
Truong Nguyen IMED	Evaluating the Effectiveness of a System Approach to Infusion Pump Alerts Compared to Individual Smart Pump Alerts
*Becky L. Doman UVH	Creation and Implementation of a performance-based pharmacy intern program and improvement in clinical knowledge, skill and workplace satisfaction
*Sophia Maedjaja UVH	The Financial and Philanthropic Impact of a Hospital and Community Pharmacy Partnership Under the 340B Drug Pricing Program
*Matthew Higley Admin	Patients' Perception of the Communication about Medicines Dimension on the HCAHPS Survey Tool
Jason Braithwaite IMED/Admin	Determination of appropriate eligibility criteria for pharmacist provided clinical services as part of a patient-centered medical home.

Class of 2010-2011

Resident	Title
*Aleesha Richman McKay-Dee	Creation, Implementation, and Evaluation of an Adult Antibiotic Order Form Comparing the Appropriate Use of Antibiotics
*Tyson Bigelow McKay-Dee	Standardizing treatment with lithium therapy in an inpatient psychiatric unit by implementing a pharmacy lithium protocol
*Christian Larsen PCH	Outcomes of Parenteral Nutrition-Associated Cholestasis in Children: A Retrospective Analysis
*Whitney Leonard PCH	Retrospective Evaluation of Appropriate Duration of Intravenous Antibiotic Therapy For Acute Exacerbation of Cystic Fibrosis
Tom Peterson PCH	Retrospective Study of Empiric Antibiotic Use in Ventilator-Associated Pneumonia in Children
*Jeremy Bair IMED	Assessing Compliance with Infectious Diseases Society of America Guidelines for Catheter-related Bloodstream Infections

*David Hwang IMED	Increased Risk of Nephrotoxicity Associated with Vancomycin Loading Doses \geq 25 mg/kg
*Mike Brown IMED	Bleeding Events Associated with Bivalirudin Compared to Glycoprotein IIb/IIIa Inhibitors: a Large, Single Center, Retrospective Analysis
*Jed Milne UVH	Using Capillary Zone Electrophoresis to Determine the Stability of Promethazine Hydrochloride in Normal Saline
Emily Oien UVH	Implementation of an Inpatient Pharmacy-Managed Anticoagulation Service
*Chad Marsing Admin	Evaluation and validation of pharmacist workload metrics
*Matt Higley IMED/Admin	Comparison of Extended Clopidogrel Therapy Versus Standard Therapy for Very Late Stent Thrombosis in Patients Receiving an Everolimus Eluting Stent

A complete list of resident projects from 2002 to 2010 is available upon request