



To prospective candidates:

**John Muir Health** offers a structured yet flexible **PGY-1 Pharmacy Residency Program** that provides training opportunities in all areas of modern, acute care hospital pharmacy operations. Our program integrates clinical, administrative, and distributive functions that will assist the resident in developing the skills necessary to become well-rounded pharmaceutical care professionals in a variety of practice settings or in preparation for a PGY-2 training program.

Contact us about taking part in this opportunity to grow and be a collaborative member of the healthcare team!

Visit our website: <https://www.johnmuirhealth.com/get-involved/careers/pharmacy-residency.html>

<b>Our Mission</b>	<b>Improve the health of the communities we serve with quality and compassion</b>	
<b>Location</b>	<ul style="list-style-type: none"><li>• Walnut Creek, California</li><li>• 25 miles East of San Francisco</li><li>• 45 miles Northeast of Silicon Valley</li><li>• 45 miles South of Napa and Sonoma Counties</li></ul>	
<b>Our Specialties &amp; Services</b>	<ul style="list-style-type: none"><li>➤ Obstetrics</li><li>➤ Pediatrics</li><li>➤ Orthopedics</li><li>➤ Rehabilitation</li><li>➤ Neurosciences</li></ul>	<ul style="list-style-type: none"><li>➤ Cardiac care</li><li>➤ Emergency medicine</li><li>➤ Trauma (Level II, Contra Costa County's only designated trauma center)</li><li>➤ Oncology</li></ul>
<b>Available Learning Experiences</b>	<ul style="list-style-type: none"><li>➤ Ambulatory Care</li><li>➤ Critical Care</li><li>➤ Internal Medicine</li><li>➤ Neuro/Trauma ICU</li><li>➤ Pediatrics</li><li>➤ Transition of Care</li></ul>	<ul style="list-style-type: none"><li>➤ Oncology</li><li>➤ Infectious Disease</li><li>➤ Emergency Medicine</li><li>➤ Administrative Practice</li><li>➤ Medication Safety</li><li>➤ Pharmacy Operations</li></ul>
<b>Other Opportunities</b>	<ul style="list-style-type: none"><li>• APPE student precepting (UCSF, Touro, UOP)</li><li>• ACPE accredited presentations</li><li>• Leadership activities</li><li>• Teaching Certificate</li><li>• Committee involvement</li></ul>	

Sincerely,

A handwritten signature in black ink, appearing to read "Ramy Khem".

Ramy Khem PharmD, APh, BCPS, BCCCP  
Email: [ramy.khem@johnmuirhealth.com](mailto:ramy.khem@johnmuirhealth.com)  
Residency Program Director

# PGY1 Pharmacy Residency Program

Our residency program offers a range of experiences in a pioneering community hospital setting. We focus on teamwork, as our pharmacists are integrated as an important part of the healthcare team. By creating an environment where our residents can think critically and innovatively, we aim to provide a foundation where new pharmacists will deliver high quality healthcare.

The residency is a structured, yet flexible, program providing training in all areas of clinical and hospital pharmacy operation. Our enthusiastic preceptors work to create a program to align with the resident's interests and goals.

## Salary and Benefits

Annual salary \$52,000

Includes Medical, Dental and Vision coverage.

Leave is accrued per pay period based on hours paid, excluding overtime. Accrual begins on the first day of employment. Leave may be used to attend professional conferences and for post-graduate or job interviews.

All residents are provided with a stipend to support travel, lodging, and registration fees for the purposes of professional conferences. The amount of the travel stipend is determined each year and may not cover all travel

## Required Learning Experiences

- Ambulatory Care
- Internal Medicine
- Critical Care
- Administrative Practice
- Pharmacy Operations

## Elective Learning Experiences

Emergency Medicine, Pediatrics, Neurocritical Care, Transition of Care, Oncology, Infectious Disease, and Medication Safety.

Residents will also have opportunities in obtaining a Teaching Certificate, presenting a research project at ASHP and Western States Conference, committee participation, precepting IPPE/APPE students, and interdisciplinary team-based care with the Family Practice Medical Residents.

## Virtual Open House

Nov. 18<sup>th</sup> 2021, 4:00 – 5:30 pm (PST)

RSVP by Nov. 15<sup>th</sup>

To RSVP or for more information email:  
[pharmacy.residency@johnmuirhealth.com](mailto:pharmacy.residency@johnmuirhealth.com)

*NMS code: 269813*

## How to Apply

All applicants must register for The Match-ASHP Resident Matching Program AND submit an application through the PhORCAS website: <http://www.ashp.org/phorcass>  
The deadline for applications and all supplemental requirements for acceptance is Dec. 31, 2021

**Application must include the following components:**

- A cover letter describing the elements of the program that most interest you and how each relates to your goals
- Three (3) letters of recommendation using the standard PhORCAS template, two references should come from a preceptor who you have worked with in a clinical setting
- Supplemental Application Material: Submit a short video of yourself (upload to youtube) and email the link to [pharmacy.residency@johnmuirhealth.com](mailto:pharmacy.residency@johnmuirhealth.com) that contains the following:
  - (a) Introduce yourself – say your full name and pharmacy school
  - (b) Answer the question: "What made you choose pharmacy as a profession?"
  - (c) Duration is 2 minutes or less
  - (d) Email Subject: "Your Name – Residency Application Video"



Activity	Block 1		Block 2		Block 3		Block 4		Block 5		Block 6		Block 7	
Residents:														
#1	Orientation	Admin MUE, Monograph, ADR Quarter Report, Research Project IRC Submission	Medicine	Critical Care	Operation	Admin Research Project Data Collection, CPE Presentation	Elective 1	Am Care	Elective 2	Elective 3	Admin Manuscript			
#2			Operation	Am Care	Medicine		Critical Care	Elective 1	Elective 2	Elective 3				
Longitudinal Learning Experiences	Administrative Practice (concentrated blocks throughout year to complete administrative duties)													
Teaching Certificate Program *optional	The UCSF Teaching Certificate Program is jointly sponsored by UCSF Medical Center and UCSF School of Pharmacy. The program is designed to support the development of residents in the design and conduct of small group teaching, large group teaching, and experiential education.													
Research Series *optional	The Resident Research Series is a collection of 1-hour seminars/month delivered during the regularly schedule Pharmacy Grand Rounds at UCSF. Sessions are open to JMH pharmacy residents and have been planned with the resident research deadlines in mind. Each session is intended to provide residents with the necessary training and tools to successfully complete their research project according to the scheduled calendar.													
Meetings	Pharmacy Grand Rounds (Every other Month, 2 <sup>nd</sup> Tuesday) Pharmacy Department Meeting (Monthly, every 2 <sup>nd</sup> Wednesday) P&T (Monthly, Every 4 <sup>th</sup> Wednesday) Resident Meeting (Monthly -> every 1 <sup>st</sup> Thursday) Longitudinal Committee (Monthly, TBD) Resident Development Plan w/ RPD (Quarterly -> Initial, Oct , Jan, April 1 <sup>st</sup> )													
Events	Welcome Breakfast					ASHP Midyear Poster presentation	PGY1 candidate interviews				Western States	End of Year Banquet		
	Resident-Preceptor Social				Open House									

## Learning Experience Description

<i>Required Learning Experience</i>	<i>Overview</i>
<b>Ambulatory Care</b> (debbie.kahng@johnmuirhealth.com)	<ul style="list-style-type: none"> <li>Anticoagulation – phone based, primarily warfarin management including bridge therapy (comprises approximately 50% of rotation duties)</li> <li>Medicare Stars – phone based, medication therapy management aimed at improving chronic disease state management</li> <li>Family Medicine Clinic – face-to-face, medication education and drug information</li> <li>Comprehensive Care Clinic – face-to-face, patient interviews, comprehensive medication review in conjunction with medical residents in the JMH Family Medicine Residency program</li> </ul>
<b>Critical Care</b> (jessica.moore@johnmuirhealth.com)	<ul style="list-style-type: none"> <li>24-bed Neuro/Trauma ICU (Level II Trauma Center)</li> <li>24-bed Medical/Surgical ICU</li> <li>Multidisciplinary team rounding in a fast-paced environment</li> <li>Specialties include neurology, trauma, surgery, hematology/oncology, GI, cardiology, gyn-oncology, pulmonology, ID, nephrology</li> </ul>
<b>Internal Medicine</b> (nichol.baxter@johnmuirhealth.com)	<ul style="list-style-type: none"> <li>Focuses on medication therapy management for patients admitted to the general medicine units (~50 patients)</li> <li>Conditions/disease states include: AFib, CHF, HTN, DM, COPD, CKD</li> </ul>
<b>Pharmacy Operations</b> (trevor.millington@johnmuirhealth.com)	<ul style="list-style-type: none"> <li>Staffing in a centralized pharmacy team setting to improve proficiency in medication distribution using various technologies</li> <li>Care provided for over 300 patients, 3 cath labs, 13 ORs, outpatient infusion center, various ICUs, and labor &amp; delivery services</li> <li>Duties will include order verification, manual checking of doses/cartfills/emergency medication boxes, technician oversight, and precepting IPPE/APPE/technician students</li> </ul>
<b>Administrative Practice</b> (martin.iyoya@johnmuirhealth.com)  (longitudinal)	<ul style="list-style-type: none"> <li>Collaboration with pharmacy managers, supervisors, and other department leaders within the multi-facility health system</li> <li>Various projects will support the functioning of the inpatient pharmacy, clinical staff, and health system:               <ul style="list-style-type: none"> <li>✓ MUE, monograph</li> <li>✓ Cost savings initiatives</li> <li>✓ Committee involvement</li> <li>✓ Research and education (residency project, CE presentation, etc)</li> </ul> </li> </ul>
<i>Elective Learning Experience*</i>	<i>Overview</i>
<b>Emergency Medicine</b> (ravipal.singh@johnmuirhealth.com)	<ul style="list-style-type: none"> <li>40 beds</li> <li>4 trauma bays (Contra Costa County's adult trauma center, Level II)</li> <li>Multidisciplinary management of patients in a fast-paced environment</li> <li>Specialties include trauma, GI, ID, general medicine, surgery, cardiology, endocrinology</li> </ul>
<b>Medication Safety</b> (amy.chiu@johnmuirhealth.com)	<ul style="list-style-type: none"> <li>Expose residents to key principles used to improve medication safety in the hospital setting</li> <li>Become proficient at medication safety nomenclature, policies, and regulatory requirements</li> <li>Participate in medication use review, medication error investigation, preform data analysis to identify areas for improvement, and participate in Medication Safety Committee</li> </ul>
<b>Pediatrics</b> (sadee.tran@johnmuirhealth.com)	<ul style="list-style-type: none"> <li>3 pediatric practice areas:               <ul style="list-style-type: none"> <li>✓ Peds ICU (8 beds)</li> <li>✓ NICU (~30 beds)</li> <li>✓ General pediatric medicine (16 beds)</li> </ul> </li> <li>Specialties include GI, ID, endocrinology, hematology/oncology, pulmonology (cystic fibrosis)</li> <li>Multidisciplinary rounding (includes Family Medicine medical residents) in a fast-paced environment</li> </ul>

## Learning Experience Description

<b>Neuro/Trauma ICU</b> (randi.douglas@johnmuirhealth.com)	<ul style="list-style-type: none"> <li>24-bed Neuro/Trauma ICU</li> <li>Gain targeted expertise in the management of critically ill patients encountered in a comprehensive stroke center and Level II trauma center</li> <li>Concentrated focus on condition/disease states including: <ul style="list-style-type: none"> <li>✓ Status epilepticus, refractory</li> <li>✓ Malignant cerebral edema</li> <li>✓ Increased intracranial pressure</li> <li>✓ Stroke (ischemic, SAH, ICH)</li> <li>✓ Traumatic brain injury</li> <li>✓ Spinal cord injury</li> </ul> </li> <li>Multidisciplinary care in a fast-paced environment</li> </ul>
<b>Infectious Disease</b> (jessica.moore@johnmuirhealth.com)	<ul style="list-style-type: none"> <li>Incorporate antimicrobial stewardship principles into practice</li> <li>Participate in therapeutic decision making, drug therapy selection, and monitor/optimize antimicrobial therapy</li> <li>Participate in ASP subcommittee</li> </ul>
<b>Transition of Care</b> (kenny.cheng@johnmuirhealth.com)	<ul style="list-style-type: none"> <li>Daily multidisciplinary rounds with Family Medicine Residents</li> <li>The rounding team will cover 12-14 patients in all levels of care (critical care, telemetry, step-down, medicine-oncology, post-surgical)</li> <li>Involvement with identifying and overcoming barriers to discharge and safe transitions of care</li> </ul>
<b>Oncology</b> (amy.riedel@johnmuirhealth.com)	<ul style="list-style-type: none"> <li>Alongside Oncologists, Hematologists, and Nurses in the Oncology Unit</li> <li>Multidisciplinary rounding to develop oncology treatment plans</li> <li>Duties will include making, prepping, and checking chemo</li> <li>Will gain experience and knowledge in the treatment and management of hematologic and solid tumor malignancies, TLS, neutropenic fever, pain management, chemo induced N/V, and supportive care</li> </ul>

\* The resident must pick at least 2 elective learning experiences in direct patient care and spend no more than 4 months w/ same patient population in the residency year. All experiences are in 6 week blocks unless otherwise specified.

### Unless otherwise specified, clinical/patient-centered rotation duties may include, but not be limited to:

- Patient interviews and counseling
- Determining appropriate/optimal therapy plans
- Drug information/education responses for healthcare professionals and patients/caregivers
- Precepting IPPE/APPE students
- Order verification
- Medical emergency response (i.e. code blue)

### Pharmacy driven protocols at JMH include:

- Adult Dosing Protocol (Electrolyte, Hyperglycemia, Renal dose adjustment)
- Anticoagulation management (i.e. heparin/argatroban/warfarin)
- Vancomycin/Aminoglycoside dosing and monitoring
- Narrow therapeutic index medication monitoring
- Parenteral Nutrition monitoring and adjustment
- IV to PO conversion



## Certificate Requirements - PGY1 Pharmacy Practice Residency

Program Requirements	Achievement Progress				
	Q1	Q2	Q3	Q4	Final
Learning Experiences					
Objective Achievement: Minimum of 31 of 33 required objectives rated as Achieved for the Residency (ACHR)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete all required projects for Learning Experiences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete all learning experience evaluations prior to the end of each block or within 7 days	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Medication Use Process					
Complete Monograph and present to P&T	<input type="checkbox"/> completed				
Complete Medication Use Evaluation (MUE) and present to P&T	<input type="checkbox"/> completed				
Complete Adverse Drug Reaction (ADR) Quarter Report and present to P&T	<input type="checkbox"/> completed				
Pharmacy Practice					
Attendance to Pharmacy Department Meetings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Attendance and active participation in a longitudinal Hospital Committee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Research Project					
Continuing Pharmacy Education (CPE) Presentation	<input type="checkbox"/> completed				
Research Project Poster Presentation at American Society of Health-System Pharmacist (ASHP) Midyear	<input type="checkbox"/> completed				
Complete Research Project and present at Western States Conference	<input type="checkbox"/> completed				
Research Project Final Manuscript Preparation	<input type="checkbox"/> completed				
Professional & Personal Development					
Attendance and active participation in monthly Resident Meetings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Initial and quarterly meetings to discuss Resident Development Plan with RPD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete bimonthly attendance reporting and comply with Duty Hour Requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
An electronic resident portfolio of all required projects and presentations are maintained and completed in PharmAcademic by the last Monday of the Residency Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Resident: \_\_\_\_\_

Date: \_\_\_\_\_

Residency Program Director: \_\_\_\_\_