

## Purpose

The purpose of the Spectrum Health Postgraduate Year Two (PGY-2) Critical Care Pharmacy Residency Program is to build on the 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.

## Overview

The Department of Pharmacy at Spectrum Health is dynamic with over 200 employees focusing on pharmaceutical care. Service is provided in a multidisciplinary decentralized model. The primary sites for the critical care residency consist of: Butterworth Hospital, Blodgett Hospital, and Helen DeVos Children's Hospital, which have 1061 licensed beds in total of which approximately 100 beds are devoted to adult critical care patients.

Strengths of the Spectrum Health PGY-2 Critical Care Pharmacy Residency:

- Variety of both required and elective rotations with flexibility of scheduling to align with resident areas of interest
- Preceptors that routinely practice in the areas they precept and provide direct modeling and mentoring for patient care experiences and project assignments
- Resident selects his/her advisor who is a member of the residency advisory committee (RAC)
- Resident progress is tracked, evaluated, and communicated regularly
- Research projects are high priority in the department and progress is monitored with presentations
- Affiliation with Ferris State University College of Pharmacy with opportunities for adjunct faculty status, teaching, mentoring, and precepting
- ACLS or PALS certification

## Requirements

- For application:
  - Qualified applicants are graduates of an Accreditation Council for Pharmacy Education (ACPE) accredited degree program (or one in process of pursuing accreditation) or have a Foreign Pharmacy Graduate Equivalency Committee (FPGEC) certificate from the National Association of Boards of Pharmacy (NABP). At minimum, the program must be a five-year pharmacy degree program.

- The applicant must be participating in, or have completed, an ASHP-accredited PGY1 pharmacy residency program or one in the ASHP accreditation process (i.e., one with candidate or preliminary accreditation status).
- Are eligible for licensure to practice pharmacy in the state of Michigan within 90 days of hire. Failure to comply will result in dismissal from the program.
- For successful residency completion:
  - The Spectrum Health Postgraduate Year 2 (PGY-2) Critical Care Pharmacy Residency must be a minimum of 52 weeks in length (full-time practice commitment or equivalent) with successful completion of required, elective, and longitudinal rotations
  - The resident and program will comply with ASHP-duty hour standards and will acknowledge throughout the residency year at least monthly:  
<https://www.ashp.org/-/media/assets/professional-development/residencies/docs/duty-hour-requirements.ashx>
  - ACLS certification within 90 days of start date or active ACLS certification with active participation in cardiac arrest (code blue), intubation, code stroke, and RAP (rapid decompensation) events throughout the year
  - Denotation of “Achieved for Residency” (ACHR) for 85% of the program’s designated goals and objectives (<https://www.ashp.org/-/media/assets/professional-development/residencies/docs/pgy2-newly-approved-critical-care-pharmacy-2016>)
  - Denotation of completion of all the PGY-2 Critical Care Appendix topic areas and any other Spectrum Health required topics
  - Denotation of “Achieved for Residency” (ACHR) for Goal R2.2, a major novel research project
    - Closure of resident research study with the IRB or transfer of study to an individual that will be remaining with Spectrum Health
  - Presentations/CE
    - Submit a Poster for presentation (i.e. Research in Progress) and present at ASHP Midyear Clinical Annual Meeting or Vizient poster session (occurs during at Midyear meeting location)
    - Present at a major conference (research project from the year or previous research). Examples: SCCM annual congress, Grand Rapids Citywide Research Day, Great Lakes Residency Conference, ACCP Annual Meeting, ASHP Midyear Meeting (platform presentation, not poster presentation)
    - Continuing Education (CE)
      - One presentation for Spectrum Health Pharmacy department
      - One additional CE for a local/national group (examples: Spectrum Health Internal Medicine Grand Rounds, West Michigan Pharmacists Association, American Association of Critical Care Nurses)
      - One Nursing in-service or provider education lecture
  - Additional Projects

- Perform 1 protocol/order set change or drug class review or monograph
- Perform 1 medication use evaluation
- Committee Involvement
  - Be a contributing member of the Adult Critical Care (ACC) P&T subcommittee as evidenced by presenting an agenda item or facilitating a meeting
- Teaching
  - Obtain adjunct assistant faculty status with the Ferris State University College of Pharmacy (<https://fsupreceptor.com/preceptors/how-to-become-a-preceptor/>) at the beginning of the residency year
  - Complete the Ferris State University Pharmacy Education Development and Lecture Series (PEDALS) learning seminar (<https://ferris.edu/HTMLS/colleges/pharmacy/pedals.htm>) (if have not already completed a similar program during PGY-1 year).
  - Teach a lecture for Ferris State University College of Pharmacy

## Rotations/Experiences

The first month of the residency program consists of orientation to the residency program, pharmacy department, health system, and training in the service commitment area. If PGY-2 is an early commit PGY-1 of Spectrum Health, the orientation month may be substituted with an available rotation.

### Required rotations (1 month in length):

- Orientation (July)
- Management/Project month (December)
- Medical Critical Care (Butterworth)
- Medical Critical Care/Burn (Blodgett)
- Surgical Critical Care 1
- Surgical Critical Care 2 or Neurocritical Care 2
- Cardiothoracic Critical Care
- Neurocritical Care
- Emergency Medicine

### Elective rotations (1 month in length):

- Pediatric/Neonatal Critical Care
- Infectious Disease
- Adult Solid Organ Transplant
- Emergency Medicine/ICU (Blodgett)
- Academia
- Repeat required rotation, not to exceed 3 months in single ICU space

### Required longitudinal experiences include:

- Service commitment
- Committee involvement (see above)
- Medical emergencies (see above)
- Major novel research project (see above)
- Critical Care Pharmacy Department management

Typical ICU schedule would be sequenced as follows:

- July: Orientation
- August: Medical Critical Care (Butterworth)
- September: Surgical Critical Care 1
- October: Neurocritical Care
- November: Cardiothoracic Critical Care
- December: Project month
- January: Emergency Medicine
- February: elective 1
- March: Surgical Critical Care 2 or Neurocritical Care 2
- April: Medical Critical Care/Burn (Blodgett)
- May: elective 2
- June: elective 3

## Service Commitment

The resident's service commitment consists of staffing in the Meijer Heart Center ICU satellite pharmacy every third weekend. During the training phase of staffing, the resident may need to begin as every other weekend until deemed competent. Expectations for independent practice will be determined on an individual basis, but typically expected by the end of September. Additionally, there is a requirement of 2 major holidays (Thanksgiving or Christmas and New Year's Day or Memorial Day) as well as a total of 7 staffing shifts in the month of December.

## Stipend and Benefits

Pharmacy resident receive a competitive compensation package which includes an annual salary, health benefits, and paid time off.

- **Stipend/salary:** The annual residency stipend is \$50,000
- **Benefits:** Residents are eligible for medical, dental, vision, and life insurance
- **Paid time off (PTO):** PTO days include vacation, sick, and personal days. The above listed major holidays are recognized as paid holidays (aside from required staffing). PTO utilization and regulation will follow Spectrum Health's "Paid Time Off" Policy and procedure.
- **Travel expenses:** Paid travel expenses (hotel, registration, transportation) to ASHP Midyear Clinical Meeting and SCCM Annual Congress
- **Office and Resources:** The resident will have dedicated office space. The resident will be supplied with an individual computer workstation, electronic Lexi-Comp®

subscription, desk phone, photocopying privileges, access to the Health Sciences Library resources, and business cards.

## Application

The Spectrum Health Postgraduate Year Two (PGY-2) Critical Care Pharmacy Residency participates in the match and is pending accreditation by ASHP.

PGY-2 Critical Care Pharmacy Residency National Matching Service Code: 786452

All PGY-2 residency applications will be accepted through the Pharmacy Online Residency Centralized Application Service (PhORCAS).

- **Application deadline:** December 31, 2020
- **Application requirements:**
  - Completed application
  - Letter of intent
  - Curriculum Vitae
  - Three completed standardized reference forms in PhORCAS
  - Verified Transcripts

## Interview

Interviews are half-day and generally on Fridays in January and/or February.

All candidates selected for an on-site interview will be expected to prepare and present a presentation to the Spectrum Health PGY-2 Critical Care Pharmacy Residency Advisory Committee (RAC).

All candidates selected for an on-site interview will be required to submit an additional application on the Spectrum Health website and will be interviewed by phone by a Human Resources representative.

## Match

The Spectrum Health residency agrees that no person will solicit, accept, or use any ranking related information from any residency applicant.

All match offers are contingent on the application process including, but not limited to, reference checks, background checks, and obtaining licensure as a pharmacist in the State of Michigan within 90 days of the start date.

## Preceptors

**Peggy deVoest, PharmD** | Academia | [Peggy.deVoest@spectrumhealth.org](mailto:Peggy.deVoest@spectrumhealth.org)  
**Christopher Dewald, PharmD,** | Emergency Medicine | [Christopher.Dewald@spectrumhealth.org](mailto:Christopher.Dewald@spectrumhealth.org)  
**Allison Dzingle, PharmD, BCCCP** | Neuroscience Critical Care | [Allison.Dzingle@spectrumhealth.org](mailto:Allison.Dzingle@spectrumhealth.org)  
**Matthew Gurka, PharmD, BCCCP** | Adult Critical Care | [Matthew.Gurka@spectrumhealth.org](mailto:Matthew.Gurka@spectrumhealth.org)  
**Calvin Ice, PharmD, BCCCP, BCPS** | Surgical Critical Care | [Calvin.Ice@spectrumhealth.org](mailto:Calvin.Ice@spectrumhealth.org)  
**Lauren Fay, PharmD** | Medical Critical Care | [Lauren.Fay@spectrumhealth.org](mailto:Lauren.Fay@spectrumhealth.org)  
**Brittany Kiracofe, PharmD, BCCCP** | Surgical Critical Care | [Brittany.Kiracofe@spectrumhealth.org](mailto:Brittany.Kiracofe@spectrumhealth.org)  
**Tuan Lam, PharmD, BCCCP** | Service Commitment | [Tuan.Lam@spectrumhealth.org](mailto:Tuan.Lam@spectrumhealth.org)  
**Jennifer McDermott, PharmD, BCPS** | Solid Organ Transplant | [Jennifer.McDermott@spectrumhealth.org](mailto:Jennifer.McDermott@spectrumhealth.org)  
**CJ Michaud, PharmD, BCCCP, BCPS** | Cardiothoracic Critical Care | [CJ.Michaud@spectrumhealth.org](mailto:CJ.Michaud@spectrumhealth.org)  
**Kumaran Ramakrishnan, PharmD** | ED/ICU Blodgett | [Kumaran.Ramakrishnan@spectrumhealth.org](mailto:Kumaran.Ramakrishnan@spectrumhealth.org)  
**Lindsay Schray, PharmD, BCPPS** | Neonatal Critical Care | [Lindsay.Schray@spectrumhealth.org](mailto:Lindsay.Schray@spectrumhealth.org)  
**Donald J. Scott, PharmD** | Adult Infectious Diseases | [Donald.Scott@spectrumhealth.org](mailto:Donald.Scott@spectrumhealth.org)  
**Ankit Shukla, PharmD, BCPPS** | Pediatric Intensive Care | [Ankit.Shukla@spectrumhealth.org](mailto:Ankit.Shukla@spectrumhealth.org)  
**Wendy L. Thomas, PharmD, BCCCP** | Medical Critical Care Blodgett | [Wendy.Thomas@spectrumhealth.org](mailto:Wendy.Thomas@spectrumhealth.org)  
**Derek Vander Horst, PharmD, BCPS, BCIDP** | Adult Infectious Disease | [Derek.VanderHorst@spectrumhealth.org](mailto:Derek.VanderHorst@spectrumhealth.org)

### Program Director:

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## Previous Program Graduates

Residency Year	Name	Institution
2003-2004	Tracy Mingori	Aurora BayCare Medical Center
2010-2011	Dustin Gladden	St. Joseph Mercy Oakland
2011-2012	John Snider	UC Davis Medical Center
2012-2013	Zachary Kirschner	University of Virginia Charlottesville
2013-2014	Christopher Michaud	Spectrum Health
2018-2019	Kumaran Ramakrishan	Spectrum Health
2019-2020	Katie Chernoby	University of New Mexico Hospital
2020-2021	Alexandra Bendarz	

For more information visit: <http://www.spectrumhealth.org/PharmacyResidencyProgram>