

POSTGRADUATE YEAR 2 (PGY2) ONCOLOGY PHARMACY RESIDENCY MEDICAL UNIVERSITY OF SOUTH CAROLINA

Introduction

The Medical University of South Carolina (MUSC) Medical Center is a tertiary care teaching hospital that serves the colleges of medicine, dentistry, nursing, allied health, and pharmacy. Included in the patient population served by MUSC are hematology/oncology patients from the greater Charleston area, the surrounding low country of South Carolina, and out of state referrals. MUSC serves these patients through a dedicated inpatient floor in the Ashley River Tower Hospital, the MUSC Children's Hospital, and through several outpatient oncology clinics and infusion areas including the NCI-designated Hollings Cancer Center, North Charleston, and East Cooper clinics. For this residency program, the resident will participate in care of this broad patient population focusing on inpatient and ambulatory management.

Program Purpose

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.

Intended Outcomes

Specific residency goals and objectives will be established in the beginning of the residency year and modified according to the resident's interests, previous experiences, and advisor input. To meet the purpose of the residency, the resident will advance to achieve the following outcomes:

- Serve as an authoritative resource on the optimal use of medications used to treat individuals with cancer.
- Optimize the outcomes of the care of individuals with cancer by providing evidence-based, patient-centered medication therapy as an integral part of an interdisciplinary team.
- Manage and improve the medication-use process in oncology patient care areas.
- Demonstrate excellence in the provision of training or educational activities for health care professionals and health care professionals in training.
- Sustain the ongoing development of expertise and professionalism in the practice of oncology pharmacy.
- Conduct oncology pharmacy practice research and create documents worthy of presentation or publication on cancer-related topics.
- Function effectively in oncology settings participating in clinical investigations.

Residency Program Structure

The PGY-2 Oncology Pharmacy Residency at MUSC is a one-year post-graduate training program designed to develop essential knowledge and skills for contemporary health-system pharmacy practice at a major academic medical center or community-based hospital, or position in academia. The residency program provides the flexibility to adapt to the resident's specific learning needs and goals. The training is provided through concentrated clinical rotational and longitudinal experiences.

Residency Rotations

There are **11 required** learning experiences, ranging in 2 weeks duration to longitudinal:

Learning Experiences	Rotation Length
Orientation (July of each year)	1 month
Inpatient Malignant Hematology	1 month
Outpatient Malignant Hematology	1 month
Outpatient BMT	1 month
Outpatient Oncology	4 months
Research/Academia	1 month
Nutrition Support	2 weeks
Pain/Palliative Care	2 weeks
Clinical On-call	Longitudinal
Oncology Practice Management & Clinical Operational Experience	Longitudinal
Investigational Drug Services	Longitudinal

The program is flexible in its design to offer the following elective rotations:

Elective Learning Experiences*	Rotation Length
Antimicrobial Stewardship	1 month
Critical Care	1 month
Drug Information	1 month
Inpatient BMT	2 weeks – 1 month
Investigational Drug Services	1 month
Pediatric Oncology	1 month
Academician Preparation Program (APP)**	Longitudinal
*The resident may repeat or customize any prior experience to achieve their residency goals and needs.	
**The APP is available to residents who have not completed a similar program during their PGY-1 residency.	

PGY2 Oncology Preceptors	
Required Rotation Preceptors	Additional Elective Preceptors
Andrew Bodiford, PharmD, BCOP Adjunct Assistant Professor	Carolyn Magee, PharmD Clinical Pharmacy Specialist, Critical Care
Carolyn Smith Bondarenka, PharmD, MBA, BCPS Manager, Oncology Pharmacy Services Adjunct Assistant Professor	Genevieve (Jeni) Hayes, PharmD, MSPHarm, BCPS Clinical Pharmacy Specialist, Outcomes Management
Carol Brown, PharmD, MS Pharmacy Coordinator, Investigational Drug Services	Julia Heh, PharmD, BCPS Clinical Pharmacy Specialist Adjunct Assistant Professor
Kathy Hogan Edwards, BCPS, BCOP Clinical Pharmacy Specialist Adjunct Assistant Professor	Shawn MacVane, PharmD, BCPS Clinical Pharmacy Specialist Adjunct Assistant Professor
Anastasia Finn Graham, PharmD, BCOP Clinical Pharmacy Specialist Adjunct Assistant Professor	Amy Sion, PharmD, BCOP Clinical Pharmacy Specialist, Investigational Drug Services
Cathy Letton, PharmD, BCOP Clinical Pharmacy Specialist Clinical Instructor	Tiffany Smith, PharmD Clinical Pharmacy Specialist

Andy Perez Maldonado, PharmD, BCOP Clinical Pharmacy Specialist Residency Program Director – Oncology Adjunct Assistant Professor	
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Residency Preceptors (Expectations by the RPD)

Each clinical preceptor will be responsible for the coordination of his/her own learning experience and any necessary modifications, with the assistance of the RPD, to achieve the resident's goals. The residency preceptor will exhibit the characteristics and aptitude necessary for residency training including the mastery of the four preceptor roles fulfilled when teaching clinical problem solving (direct instruction, modeling, coaching and facilitation). The residency preceptor will guide and monitor the resident's activity and service throughout the learning experience. The residency preceptor will provide ongoing formative and summative evaluations of the resident's performance, with the goal of advancing the resident's competency on the specific goals assigned to the experience.

The specific responsibilities are to:

- Understand the resident's responsibilities to the learning experience and to facilitate ongoing activities such as projects, in-services, student discussions, and manuscript preparation.
- Develop and maintain goals and objectives for the specific learning experience(s).
- Review the resident's customized training plan and resident's previous performance and modify the learning experience accordingly.
- Orient the resident to the rotation's setting and monitor/evaluate/critique the resident's performance during the experience.
- Provide the resident a midpoint in written and verbal format, and be able to complete the final summative PharmAcademic evaluation by month's end as outlined in the residency manual.
- Advise the RPD of any appropriate interventions that may be needed relevant to the resident's performance.
- Actively participate in regular feedback sessions in which preceptors and the RPD consider overall program changes based on evaluations, observations, and direct resident feedback and surveys.

Residency Advisor Role

Each resident is assigned an advisor at the beginning of the PGY2 year. Advisors are appointed by the RPD. The residency advisor will be responsible for the supervision, guidance, and on-going evaluation of the resident's progress throughout the residency, as well as serve in an informal professional mentoring role.

Specific responsibilities include:

- Contacting resident prior to the start of the PGY2 year to offer guidance on rotation selection/scheduling questions and to ensure the resident is working on licensure (if out of state) and a place to live
- Meet with the resident during the orientation month to help the resident in the design of his/her customized plan, selecting a residency research project, modifying rotation schedule as necessary, etc.
- Review all evaluations and participate in the resident's quarterly evaluation.
- Assist RPD with customizing the resident's training plan as necessary based on the resident's progress.
- Insure resident is setting and meeting all project deadlines.
- Serve as a mentor to the resident by assisting with career exploration and applying and interviewing for jobs.

Specific Resident Responsibilities

The residents' role is that of a student, novice practitioner, and emerging clinician and/or administrator and educator. The resident is to participate in ongoing clinical and administrative services with the assistance of the residency preceptor and develop their skill set into a competent clinical practitioner and/or future administrator. The resident must accept and apply constructive criticism in addition to performing self-evaluations on their performance.

In order to promote an effective and productive residency experience, the relationship between a resident and rotation preceptor must be highly communicative, and a meaningful dialogue must be achieved. Specifically, the resident will:

- Sign off on the learning experience orientation form on the first day of each new clinical rotation.
- Maintain strict deadlines for PharmAcademic evaluation and assessment requirements as outlined in the MUSC residency manual. This involves project work, MUE work, seminar preparation, and any other educational or in-service/presentation that will require preceptor feedback.
- Understand the preceptor's expectations for daily activities, services provided and preceptor contact.
- Participate in pharmacy functions (e.g. rounds, patient care conferences, lectures, departmental meetings, clinical staff meetings, journal clubs, seminars, and RITEs) in accordance to the MUSC residency manual.
- As outlined by the clinical preceptor, provide a detailed account of activities as they relate to the goals and objectives of the learning experience.
- Maintain active communication with the preceptor, advisor and/or RPD concerning any planned off-service activities (eg. meetings, seminars, projects, staffing, on-call commitments) that the resident will be participating in during the rotation.

Individual Learning Experience Evaluations and Grading

Each residency experience is thoughtfully designed to provide the resident with the tools needed to successfully complete and achieve **all*** of the required competency areas, goals and objectives for PGY2 Pharmacy Residencies in Oncology. This will include the following under the "achieved category":

- Competency Area R1: Patient Care
 - Competency Area R2: Advancing Practice and Improving Patient Care
 - Competency Area R3: Leadership and Management
 - Competency Area R4: Teaching, Education, and Dissemination of Knowledge
 - Competency Area R5: Oncology Investigational Drugs
- A. *The resident is expected to demonstrate proficiency in 95% or above of all activities linked to these specific outcomes via the various goals and objectives assigned from the learning experiences to successfully complete the MUSC program. The resident will first observe, learn, act, and then master a particular activity, which will deem them having achieved that goal. This again will be highly individualized and not applied to every resident in exactly the same manner.
- B. For the various elective competency areas, goals and objectives for PGY2 Pharmacy Residencies in Oncology, the resident may or may not have elective goals and objectives assigned based upon their individual customized residency plan. If a competency area is assigned, it must be satisfactorily completed (at least 95% proficient) to achieve a residency certificate from the MUSC program. The following are elective outcomes which may be selected:
- Competency Area E1: Teaching and Learning
 - Competency Area E2: Initiating an Oncology Pharmacy-Related Service
 - Competency Area E3: Oncology Credentialing
 - Competency Area E4: Publishing

- Competency Area E5: Management of Oncology Medical Emergencies
- Competency Area E6: Specialty Pharmacy

Selection of Residency Candidates

The PGY2 Oncology Residency is seeking candidates who have broad rotational and work experience, have experience giving presentations, conducting and presenting research, are active in professional organizations (especially leadership positions), have demonstrated effective communication skills, have a track record of successfully balancing responsibilities and completing assignments, and have a strong scholarly foundation to build upon. Residency candidates are selected for interviews in accordance with the program's candidate selection procedures and evaluated for ranking after interview by the scoring rubric.

- Contact information:
 - Andy Perez Maldonado, PharmD, BCOP
Clinical Pharmacy Specialist, Medical University of South Carolina
Residency Program Director – PGY-2 Oncology Pharmacy Specialty Residency
Adjunct Assistant Professor, College of Pharmacy

 - Kathy Hogan Edwards, PharmD, BCPS, BCOP
Clinical Pharmacy Specialist, Medical University of South Carolina
Adjunct Assistant Professor, College of Pharmacy

 - MUSC – Department of Pharmacy
150 Ashley Avenue, MSC 584
Charleston, SC 29425
Phone: 843-876-0175
Email: perand@musc.edu