Postgraduate Year Two (PGY2) Solid Organ Transplant Pharmacy Residency Program

Introduction

The MUSC Medical Center is a 690-bed tertiary care academic medical center providing care for patients of Charleston and throughout the state of South Carolina. In addition to general medical and surgical services, MUSC offers a variety of specialty services including cardiothoracic, transplant and neurosurgery, level I trauma center, digestive disease, psychiatry and level III neonatal intensive care. The medical center is comprised of four hospitals, Ashley River Tower, Children's Hospital, Institute of Psychiatry, and University Hospital. Outpatient facilities include the Hollings Cancer Center, Ashley River Tower Clinics, Rutledge Tower Clinics, Family Medicine Center and affiliated faculty practice ambulatory care centers.

The MUSC Transplant Center performs over 300 solid organ transplants annually, including kidney, liver, pancreas, and heart. The center has been nationally recognized for providing low-cost, high quality care through a multidisciplinary team approach. Clinical Pharmacy Services has been a vital member of the transplant team since the programs early beginnings, and continues to have an important role in assuring optimal care for transplant patients.

The solid organ transplant pharmacy residency at the Medical University of South Carolina is a specialized residency consisting of 12 months of training and experience. The program allows sufficient flexibility to adapt to the interests and needs of the individual resident, yet provides the basic foundation for quality clinical practice in transplant. Upon completion of this comprehensive program, the resident will be prepared to enter a clinical practice position or a fellowship program.

The Department of Pharmacy Services provides service to patients on a 24 hour basis through multiple inpatient and ambulatory pharmacies to fulfill the department's mission, vision, and goals of providing optimal pharmaceutical care to all patients. Comprehensive clinical pharmacy services are provided by full-time transplant clinical pharmacy specialists on a 24 hour basis. Rutledge Tower Pharmacy provides outpatient services for the solid organ transplant patients.

Purpose

The Postgraduate Year Two (PGY2) Solid Organ Transplant Pharmacy Residency Program is designed to develop accountability; practice patterns; habits; and expert knowledge, skills, attitudes, and abilities in the respective advanced area of pharmacy practice. The Solid Organ Transplant Pharmacy Residency Program builds upon the broad-based competencies achieved in a PGY1 residency, deepening the resident's ability to provide care in the most complex of cases or in the support of care through practice leadership. Therefore, Solid Organ Transplant Pharmacy Residency Program provides residents with opportunities to function independently as practitioners by

conceptualizing and integrating accumulated experience and knowledge and transforming both into improved medication therapy for patients. A resident who completes successfully an accredited PGY2 Solid Organ Transplant Pharmacy Residency Program should possess competencies that enable attainment of board certification in the practice area (i.e. BCPS).

Additionally, The MUSC PGY2 Solid Organ Transplant Pharmacy Residency is committed to developing expert clinical specialists. Residents who graduate from our program are prepared to enter clinical practice or assume a faculty role within a college of pharmacy.

Outcomes

Specific residency goals and objectives will be established in the beginning of the residency modified according to the resident's interests and 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 in recipients of a solid organ transplant.
- Optimize the outcomes of transplant patients by promoting and/or providing evidence-based medication therapy as an integral member of an interdisciplinary team in acute and ambulatory care settings.
- Manage and improve the medication-use process in transplant patient care areas.
- Demonstrate leadership and practice management skills.
- Demonstrate excellence in the provision of training or educational activities about transplant-related medications for health care professionals and health care professionals in training.
- Conduct transplant research.
- Contribute to formulary decisions regarding transplant-related medications.
- Publish on transplant-related topics.
- Function effectively in transplant settings participating in clinical investigations.
- Demonstrate skills required to function in an academic setting.

The Residency Experience

The breath of experience provided by this residency program will allow successful candidates to work in any facet of solid organ transplant. Residents will become experts in immunosuppression, infectious disease, internal medicine and critical care pharmacotherapy. The high level of clinical practice, which is established by the program's preceptors, allows the resident sufficient autonomy to become an independent practitioner. Residents have the opportunity to care for inpatient adult and pediatric solid organ transplant recipients, as well as, participate in ongoing care in the acute care abdominal organ transplant clinics. Specifically, the management of end organ diseases of the liver, kidney, pancreas, and heart, acute and chronic

management of immunosuppression, acute and chronic management of the complications and toxicities associated with the use of immunosuppressants, acute and chronic monitoring and management of the various degrees of organ dysfunction associated with post-transplant patients, management of common comorbid conditions transplant patients have or may develop, and management of the acute and chronic infectious complications associated with transplantation and immunosuppression will be emphasized. The resident will also have various levels of involvement in clinical research, department of pharmacy service projects, and teaching (both didactically and experiential) of doctor of pharmacy students and medical house staff.

Learning Experiences	
Orientation(includes orientation to inpatient staffing)	1 month
Adult and pediatric inpatient solid organ abdominal transplant	4 months
Adult and pediatric ambulatory solid organ abdominal transplant	2-3 months
Adult inpatient cardiothoracic surgery, including inpatient heart transplant	1-3 months
Electives (any of the above and/or Transplant Infectious Disease, Research, Bone Marrow Transplantation (inpatient or outpatient), Pulmonary Medicine, MICU, DDICU, etc.)	2-4 months

Teaching

- Didactic lectures in transplant related areas within the college of pharmacy, including the Immunology/Transplantation elective
- In-services to pharmacy, medical, and nursing staff (inpatient and outpatient).
- Co-preceptor of Pharm.D. students and PGY1 residents on elective Transplant rotations. Presentations at the Transplant Conference and national transplant meetings.

Preceptors

Nicole A. Weimert, PharmD, MS, BCPS
Clinical Pharmacy Specialist
Solid Organ Transplantation
Clinical Assistant Professor of Pharmacy

Dave Taber, PharmD, BCPS
Clinical Pharmacy Specialist
Solid Organ Transplantation
Clinical Coordinator, Pharmacy Services
Clinical Assistant Professor of Pharmacy

Walter Uber, BS, PharmD
Clinical Pharmacy Specialist
Cardiothoracic Surgery
Clinical Professor of Pharmacy

Philip Hall, PharmD, FCCP, BCPS, BCOP
Associate Dean
Associate Professor of Clinical Pharmacy and Outcome Sciences Clinical Specialist
Hematology/Oncology

Joseph Mazur, PharmD, BCPS
Clinical Pharmacy Specialist

Wendy M. Bullington, PharmD, BCPS
Clinical Pharmacy Specialist

Medical Intensive Care
Clinical Manager, Pharmacy Services
Clinical Associate Professor of Pharmacy

Emergency/Pulmonary Medicine
Clinical Assistant Professor of Pharmacy

On-site interviews will be required.

For further information contact:

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