ASHP Accredited
Postgraduate Year Two (PGY2)
Infectious Diseases Pharmacy Residency Program
Veterans Affairs North Texas Health Care System
Dallas, Texas

TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER
School *of* Pharmacy

Philosophy:

The Postgraduate Year 2 (PGY2) Infectious Diseases Pharmacy Residency Program at the Veterans Affairs North Texas Health Care System in Dallas, Texas is designed to produce well rounded clinical practitioners in Infectious Diseases Pharmacotherapy. The resident is exposed to a wide range of patient care settings intended to provide a solid knowledge base of infectious disease states and optimum use of antimicrobial therapies. The primary goal of the program is to foster the development of an independent, knowledgeable, and versatile practitioner through experiences in teaching, research, and professional activities.

General Description:

The 12-month program is based upon a variety of monthly core/elective and longitudinal practice experiences to gain exposure to each of the disease states established within the ASHP Practice Standards for a PGY2 residency program Infectious Diseases. These include, but are not limited to osteomyelitis, endocarditis, meningitis, invasive fungal infections, and Human Immunodeficiency Virus (HIV). The resident may choose both on-site and off-site electives based on his/her interests and career goals.

Program Goals:

Clinical

- Gain solid patient care skills related to antimicrobial therapy in both acute and chronic care settings
- Augment understanding of pharmacy practice management
- Establish oneself as an integral member of a health care team

Academic/Teaching

- Gain skills teaching in both didactic and small group learning environments
- Develop effective precepting skills
- Generate new knowledge in Infectious Diseases pharmacotherapy
- Interpret and disseminate knowledge in Infectious Diseases pharmacotherapy

Individual/Professional

- Develop a system of self-assessment and personal growth
- Demonstrate exemplary verbal and written communication skills
- Utilize a system for balancing multiple work-related and personal responsibilities
- Understand the importance of professionalism through participation in program activities and pharmacy organizations

For additional information, please refer to the ASHP Educational Goals and Learning Objectives for PGY2 Infectious Diseases Pharmacy Residencies.

Program Activities:

Required Rotations/Experiences: (~70% time)

Orientation/IRB development
Inpatient Infectious Diseases Consult Service
Antimicrobial Stewardship
Pharmacy Benefits Management
Outpatient Parenteral Antimicrobial Therapy (OPAT)
Medical Intensive Care Unit
Laboratory Procedures

Longitudinal Required Rotations:
HIV Pharmacotherapy or Hepatitis C/Liver Clinic (~10% time)

Elective Rotation Options (may choose two): (~20% time)
Drug Information/Pharmacoeconomics
Hematology/Oncology
Pediatric Infectious Diseases
Psychiatry (special populations)
Stewardship or Infectious Diseases Consult at an alternate site

Teaching Activities:
Residents are appointed as Assistant Clinical Instructors with Texas Tech University Health Sciences Center School of Pharmacy. Teaching activities for residents are designed to complement practice activities while allowing the resident to experience a variety of teaching methods.

- **Didactic Teaching-** One to two hours of formal lecture presentations is required of the PGY2 resident. Material to be covered will be based on availability and resident interest.
- **Experiential Teaching- Residents have the opportunity to independently precept clerkship (P3 and/or P4) students during the year.**
- **Problem-Based Learning (optional)** - Residents have an opportunity to serve as a group facilitator in case studies (P3 class). During the semester, this course meets twice a week for two hours. The case studies course is a student-directed exercise which focuses on pharmaceutical care for an individual patient. It is designed to be a problem-based learning experience in which students see an initial patient presentation. They then spend the next 3 to 4 sessions developing a patient care plan and addressing self-identified learning issues. Both pathophysiology and therapeutic knowledge are incorporated in these activities. The facilitator's role is not to teach the students, but rather to facilitate their discussion.
- **Clinician-Educator Training Program (optional) -** Conducted throughout the residency year, this program provides training for residents who are interested in developing their academic skills. The goal of the training program is to supplement a strong clinical background with the skills needed to become a successful educator. The program includes didactic and web-based teaching models, mentored facilitator training for small-group problem-based learning, and precepting of third and fourth-year Doctor of Pharmacy students. Residents also receive instruction on grant writing, statistics, and clinical trial design; submit a project proposal to the institutional review board (IRB); and collect, interpret, and publish their results. The program also includes innovative discussion topics based upon needs previously identified by new faculty members. Examples include handling difficult students, writing test questions, developing consistent evaluation methods and balancing life outside of career.

Residency Project:
Residents complete one major project per year. Residents may choose any type of research project provided that the project:

- Includes generation of original data;

- Is suitable for publication or presentation at a national pharmacy meeting;
- Can reasonably be completed within the residency year.

Additional Opportunities:

- **Southwestern Leadership Conference (ALCALDE) -** Residents participate in this regional residents meeting, also known as ALCALDE, in the spring. Residents have the opportunity to present their project results for evaluation. It is also a great opportunity to interact with residents from other programs throughout the region.
- **ID Fellows Core Curriculum and Case Conferences**- Weekly lecture series with participation as learner
- **Specialty Resident Journal Club**- Meets every month throughout the year
- **Quality improvement, newsletter production and formulary management activities**.

Salary and Benefits

The stipend for one year is approximately $47,000. Benefits include 10 days of vacation, up to 10 days professional leave, sick leave, a retirement & health care benefit package. Based upon funding availability, partial support to attend one National and one Regional residency meeting may be available. Texas has no state income tax.

Site Information:

The Veterans Affairs North Texas Health Care System (VANTHSC) consists of three campuses including the Dallas VA Medical Center (VAMC), Sam Rayburn Memorial Hospital in Bonham, and the Fort Worth Outpatient Clinic. The Dallas VAMC, located 10 miles south of downtown Dallas, is a 571-bed inpatient facility with a new outpatient facility opened in 1999. The Dallas VAMC has a 48-bed Intensive Care area in the Clinical Addition, a state-of-the-art building that was completed in 1998. Intensive Care Units are divided into the Surgical ICU, Thoracic ICU, Medicine ICU, and Cardiology ICU. Each of the four Intensive Care Units has computerized medical charts, medical administration records (MAR), bedside computer monitors for each patient, and physician order entry capabilities. A 50-bed telemetry step-down unit is also housed within the Clinical Addition. The Dallas VAMC is also a major training site for multiple healthcare professionals and is one the main teaching hospitals for residents and fellows from the University of Texas Southwestern (UTSW) Medical Center of Dallas. The UTSW is currently ranked 5th in the nation for research. Other Dallas training centers include the Children's Medical Center, Harris Methodist Hospital, Presbyterian Hospital, Baylor Medical Center, and the UTSW Medical Center.

Information for Applicants:

Residency applicants must have a Pharm.D. degree and be eligible for licensure in Texas. Completion of a PGY-1 residency is required. Applications are accepted through the Pharmacy Residency Centralized Application System (PhORCAS). Interested applicants should submit a letter of interest, 3 letters of recommendation (through PhORCAS), curriculum vitae, official transcripts from pharmacy education, and a completed application form by January 6th of the year they wish to start the program.

Program Leadership:

Susan Duquaine, Pharm.D., BCPS (AQ-ID), AAHIVP
Dr. Duquaine serves as the residency program director and is a Clinical Pharmacy Specialist focusing on Infectious Diseases and antimicrobial stewardship at the Veterans Affairs North

Texas Medical Center in Dallas, Texas. She is also affiliated as an Adjunct Clinical Assistant Professor with the Texas Tech University Health Sciences Center School of Pharmacy. Dr. Duquaine received her Bachelor of Science and Doctor of Pharmacy degrees from the University of Florida in Gainesville, Florida and completed an ASHP accredited Pharmacy Residency in Critical Care at the Veterans Affairs North Texas Healthcare System and Texas Tech University Health Sciences Center School of Pharmacy in Dallas. Dr. Duquaine research and interests primarily focus on the inpatient management of infectious diseases, antimicrobial stewardship, and HIV pharmacotherapy. She is an active member in several professional organizations including the American College of Clinical Pharmacy, Society of Infectious Diseases Pharmacists, and Infectious Diseases Society of America.

Anjali Patel, Pharm.D., BCPS
Dr. Patel serves as the residency coordinator and is a Clinical Pharmacy Specialist at the VA North Texas Healthcare System focusing on Infectious Disease (HIV) and Hepatitis C. She received her Doctor of Pharmacy degree from The University of Texas at Austin in May 2009, graduating with University Honors. She completed a Pharmacy Practice Residency (2009-2010) and Ambulatory Care Residency (2010-2011) at the Veterans Affairs North Texas Health Care System and Texas Tech Health Sciences Center School of Pharmacy in Dallas, Texas. Upon graduation from residency, she moved to Springfield, MO where she worked at an independent pharmacy, Convenient Care Pharmacy. There she developed a discharge counseling program and helped initiate a program for specialty drugs. Dr. Patel is affiliated as an Adjunct Assistant Professor at Texas Tech Health Sciences Center School of Pharmacy and a Clinical Assistant Professor at the University of Texas at Austin College of Pharmacy. Her practice and research interests include HIV, Hepatitis C, diabetes, and lipid management.

Steven Pass, Pharm.D., FCCM, BCPS
Dr. Pass is the Vice Chair for Residency Programs at Texas Tech School of Pharmacy, an Associate Professor at the Texas Tech University Health Sciences Center School of Pharmacy and a Clinical Pharmacy Specialist in the Medical ICU at the Dallas VAMC. He received his BS Pharm and Doctor of Pharmacy degrees from the University of Kentucky College Of Pharmacy, and completed a PGY1 pharmacy practice residency at Baptist Memorial Hospital in Memphis, Tennessee, and PGY2 critical care residency at University Hospital in Cincinnati, Ohio. His research interests include the use of antimicrobial agents in ventilator associated pneumonia and sepsis, and medications in advanced cardiac life support. Dr. Pass has been active in several professional organizations, including serving as a Residency Learning System instructor and accreditation site surveyor for ASHP, the critical care PRN chair for ACCP, a past chair of the Clinical Pharmacy and Pharmacology Section of the Society of Critical Care Medicine, and is currently a member of the TSHP Research & Education Foundation Board of Directors. Dr. Pass received recognition as a Fellow of the American College of Critical Care Medicine in 2006.

Current Resident:

Meenakshi Ramanathan, PharmD (2013-2014)
Dr. Ramanathan received her Doctor of Pharmacy degree from The University of Texas at Austin College of Pharmacy in May 2009. She completed her PGY1 pharmacy residency at the University of Texas at Austin College of Pharmacy, University of Texas Health Science Center at San Antonio, and CHRISTUS Santa Rosa Health System in San Antonio, Texas in 2013. Prior to pursuing her residencies, she worked at Parkland Health and Hospital System as an ambulatory clinical staff pharmacist for 3 years. Her practice interests include infectious diseases, transplant, hematology/oncology, critical care, adult medicine, geriatrics, and pediatrics. Her PGY2 research focus is on evaluating the procalcitonin use for bacterial infections at the VA North Texas Health Care System. Upon completion of the residency program, she hopes to continue educating students while practicing as an infectious diseases pharmacist on an ID consult service.

Former Residents:

Mary Beth Brinkman, PhD, PharmD, BCPS (2012-2013)
Dr. Brinkman graduated from the University of Houston College of Pharmacy in 2011 and completed her PGY1 residency with the University of Texas Medical Branch Health and the Texas Department of Criminal Justice in 2012. Prior to pursuing a pharmacy degree, she earned her PhD in Biochemistry and Molecular Biology from Baylor College of Medicine in Houston, Texas. Her PGY2 research focused on the dosing of antimicrobials in patients with obesity. She is currently a Clinical Pharmacist in Internal Medicine at Baylor Scott and White All Saints Medical Center in Fort Worth, Texas.

James Sanders, PhD, PharmD, BCPS (2011-2012)
Dr. Sanders graduated from the University of Texas at Austin College of Pharmacy in 2010 and completed his PGY1 residency at the VA North Texas Healthcare system in 2011. Prior to pursuing a pharmacy degree, he earned his PhD in Pharmacology, also from the University of Texas. His PGY2 research focused on the treatment and outcomes in veterans with osteomyeltitis. Additionally, during is PGY1 and PGY2 residency years he piloted a resident run Antimicrobial Stewardship prospective audit and feedback program. He is currently a Clinical Pharmacy Specialist in Infectious Diseases at the Maricopa Integrated Health System in Phoenix, Arizona.