

Fellowships

Clinical Toxicology

This two-year fellowship provides in-depth experiences that develop the knowledge and skills required to function in a professional, administrative, and research capacity in a certified poison center, clinical toxicology service, and/or academic environment. Fellows independently perform one or more research projects that are presented at national or regional meetings and published in peer-reviewed journals. Fellows participate in various didactic and clinical teaching activities with entry-level PharmD students. In addition, the verbal and written communication skills of fellows are enhanced through interactions with users of the poison center; case conference presentations; in-person consultations with health practitioners; contributions to ToxAlert, the Maryland Poison Center's newsletter; and professional journals. The results of the project are submitted for publication in a peer-reviewed journal.

Instructional Design and Evaluation

This fellowship is a structured but highly individualized two-year program intended to develop pharmacists with advanced clinical training to become educational scholars (i.e., able to independently engage in the scholarship of teaching). Upon completion, fellows earn



a master's degree in Instructional Systems Development from the University of Maryland, Baltimore County (UMBC), while simultaneously engaging in a series of scholarly projects at the University of Maryland School of Pharmacy. The nature of these projects is based on the fellow's scholarly interests, and the perceived needs of the department and school with guidance from the program faculty. The School of Pharmacy serves as "the laboratory" in which fellows have opportunities to formally assess instructional needs and gaps as well as design (or redesign), develop, implement, and evaluate units of instruction in collaboration with the faculty. Fellows are required to design, implement, and evaluate at least one major hypothesis-driven instructional project that is written and defended in a manner equivalent to a master's thesis.



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Residency Programs and Fellowships Offered

Postgraduate Year-One Residency Programs

Managed Care/Ambulatory Care

In this innovative program with a local managed care organization, residents gain experience in population-based pharmacy care with involvement in: disease state management, claims database assessment, pharmaco-economic evaluations, formulary management, and policy development. Residents also provide individual patient-specific care and drug information services. In addition, residents have opportunities to teach entry-level PharmD students. The goal of the residency is to prepare residents to assume managerial or clinical responsibilities within a managed care organization.

Pharmacy Practice with Emphasis in Community Care

In partnership with a variety of chain and independent pharmacies, residents gain experiences in disease state management, program development, implementation and evaluation, and innovative dispensing systems. Residents gain insights into management issues affecting the implementation of patient care services. In addition, residents participate in patient care activities at selected ambulatory care clinics at health care centers and a variety of teaching activities at the University of Maryland School of Pharmacy.



Pharmacy Practice with Emphasis on Palliative Care

This residency focuses on developing skills in the medication use process, patient care, leadership, practice management, education, and medical information, particularly in the area of palliative care. Residents work in a variety of practice settings to accomplish these goals. Graduates of this residency are well prepared to function in a wide range of practice opportunities, and provide palliative care and other services across the spectrum of care. Graduates are also well prepared to continue advanced study in palliative care (see Palliative Care/Pain Management PGY2 description). As with all University of Maryland School of Pharmacy residencies, residents are involved in teaching and precepting PharmD students (in a wide range of therapeutic topics, including palliative care), and participating in research and other projects. Residents have multiple opportunities to present locally and nationally, and publish projects and research.

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Postgraduate Year-Two Residency Programs

Ambulatory Care

Residents complete practice experiences in multiple general ambulatory care clinics and specialty clinics throughout the Baltimore metro area. Required rotations typically include diabetes, anticoagulation, geriatrics, pediatrics, and medication management clinics. Teaching abilities are developed through participation in both didactic and experiential PharmD education. Residents complete a research project in conjunction with the School of Pharmacy Department of Pharmaceutical Health Services Research. This program provides in-depth education and training to accomplish four major goals: (1) Provide individualized direct care to patients; (2) Participate in the development and implementation of ambulatory care collaborative practices; (3) Develop population-based research abilities; (4) Develop teaching abilities.

Geriatric Pharmacotherapy

Through the School of Pharmacy Peter Lamy Center for Drug Therapy and Aging, this one-year program combines clinical, administrative, and research components to provide residents with invaluable skills to pursue leadership roles in the field of geriatrics. With the elderly population booming and an increasing focus on appropriate medication use, residents are well prepared to work in the dynamic area of geriatrics.

Oncology Pharmacy Practice

This is a one-year intensive program through the University of Maryland School of Pharmacy and the University of Maryland Medical Center Department of Pharmacy Services. It combines patient care and clinical services, education and teaching, and research components to provide residents with the expert skills and competencies necessary to obtain an administrative, academic, or clinical role in the field of oncology pharmacy practice.

Residents provide clinical services as members of a multidisciplinary team for the medical oncology, leukemia/lymphoma, and blood and marrow transplantation services. These rotations are spent at the University of Maryland Marlene and Stewart Greenebaum Cancer Center. Residents can choose from a variety of elective oncology experiences, which include, but are not limited to, pharmacokinetics research, pediatric oncology, infectious disease oncology, and hospice/palliative care. Residents attend hematology/oncology



outpatient clinic one day a week. In addition to these unique experiences, residents in Oncology Pharmacy Practice are expected to participate in Pharmacotherapy Rounds, the Residency Management Seminar series, teaching activities, and Journal Club.

Palliative Care/Pain Management Pharmacy

The goals of palliative care are highly consistent with the goals of pharmaceutical care – achieving outcomes that resolve pain and other symptoms in patients with advanced illnesses. Residents work in a variety of pain/palliative care practice settings, learning how to optimally function in the team environment, and learn to master the drug therapy needs of this fragile patient population. Rotations include both home-based and institutional hospice and palliative care, inpatient and outpatient pain management, oncology, and numerous opportunities for elective study. Upon completion of this specialized residency, graduates are exceptionally well prepared to enter advanced practice in this emerging specialty, throughout the health care continuum. Residents participate in teaching and precepting PharmD students, particularly in pain management and palliative care, and conduct an independent research project, as well as participate in additional research endeavors. Residents have multiple opportunities to present on the local and national level, and publish projects and research.

Pediatrics

In partnership with the University of Maryland Hospital for Children, this one-year program provides residents with proficient, confident, and compassionate direct patient care in multiple pediatric patient environments. Residents are accountable for promoting safe and effective drug usage and achieving optimal drug therapy outcomes as vital members of the health care team. This program combines patient care and clinical services, education and teaching, and research components to provide residents with the expert skills and competencies necessary to obtain an administrative, academic, or clinical role in the field of pediatric pharmacy.

Pharmacotherapy

This program trains clinical pharmacists who have a strong foundation of skills and knowledge that allows them to practice independently while caring for a wide variety of patients in an institutional environment. Core rotations include internal medicine, cardiology, infectious disease, psychiatry, and ambulatory care experiences; multiple elective rotations are also offered. Residents are given the opportunity to develop their teaching and research skills through required teaching



activities at the School of Pharmacy and through completion of an institution-based research project. Upon completion of the pharmacotherapy residency, residents should be well equipped to attain board certification as a pharmacotherapy specialist and to demonstrate proficiency in teaching and scholarly activity.

Psychiatric Pharmacy Practice

The School of Pharmacy's Mental Health Program provides a one-year, postdoctoral residency in psychiatric pharmacy practice. This residency combines clinical, teaching, administrative, and research components to develop critical thinking in applied problem solving. Upon successful completion of this program, residents have expert skills and competencies in psychiatric pharmacy practice, which prepare them for leadership, clinical, or academic positions.