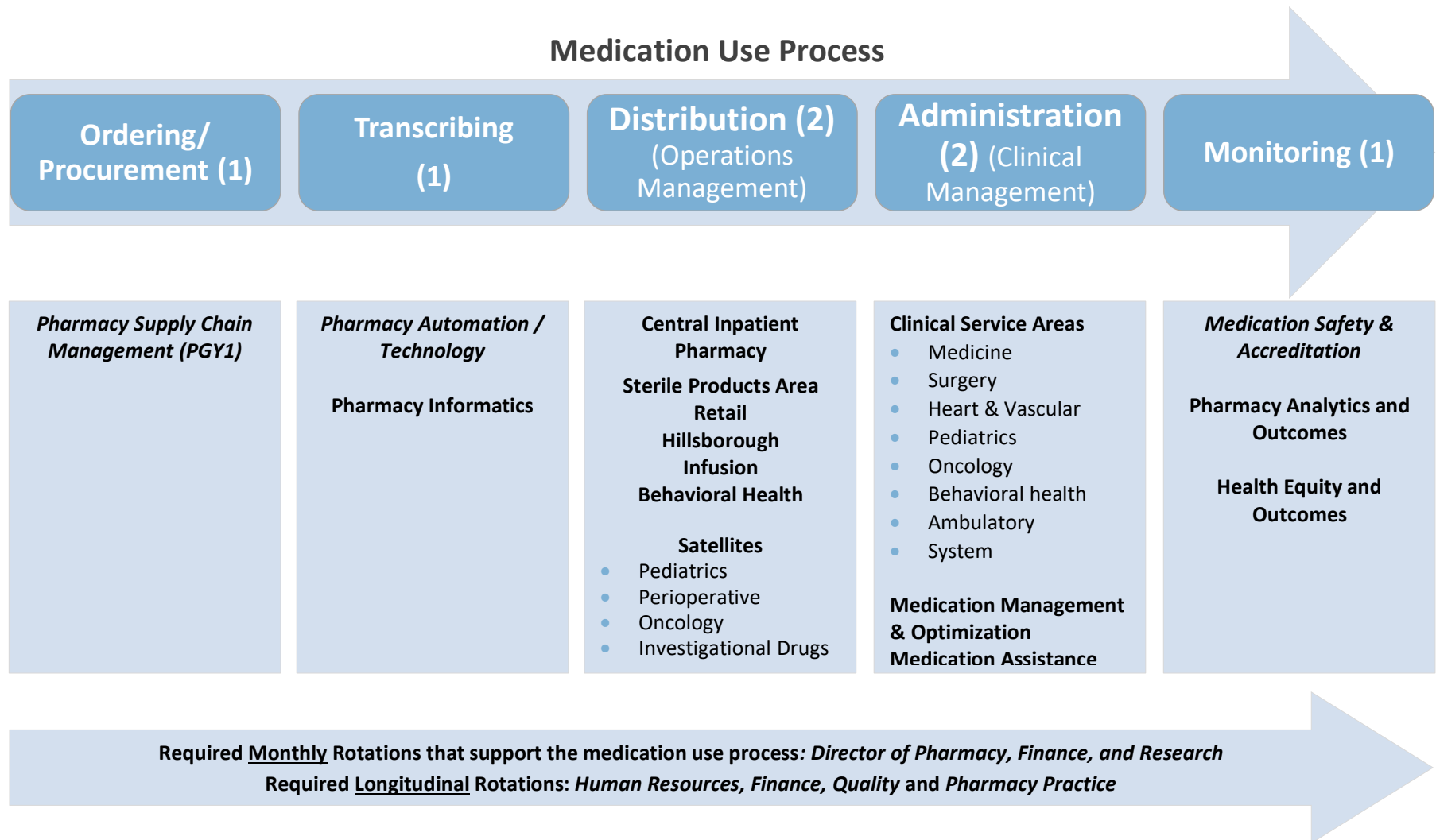


**PGY1/PGY2/MS Health-System Pharmacy Administration and Leadership Program
Residency Rotation Opportunities across PGY1 and PGY2**

Pharmacists completing the 2-year MS / Health-System Pharmacy Administration and Leadership Residency at the University of North Carolina Medical Center will be equipped to be future leaders of health-system pharmacy. Through training across the many areas of our department, these individuals will gain competence in managing systems and people in both the acute and ambulatory care settings. They will also be confident practitioners that utilize critical thinking to address any problems that might arise.

The structure of the residency is based on the medication use process. Required rotations are 1 calendar month in duration unless they are longitudinal and will span the entirety of the residency year. Coupled with the MS degree, this residency structure is geared to meeting our outcome.

Medication Use Process



**PGY1/PGY2/MS Health-System Pharmacy Administration and Leadership Program
Residency Rotation Opportunities across PGY1 and PGY2**

Required Rotations

PGY1¹

- Operations Management
- Clinical Management
- Pharmacy Supply Chain Management

The remaining rotations during PGY1 align with the clinical rotation requirements of the PGY1 Pharmacy Practice Residency at UNC Medical Center.

¹Operations / Clinical Management should be precepted by managers.

PGY2^{2,3}

- Orientation
- Accreditation/Med Safety
- Operations Management (2)
- Clinical Management (2)
- Research
- Director of Pharmacy
- Financial Management
- Automation/Technology
- Elective (2)

PGY2 Longitudinal⁴

- Management Area (Human Resources/Operations)
- Pharmacy Practice (Operational and Decentralized Staffing)
- Health-System Leadership
- Research
- Quality

²Operations / Clinical Management / Automation rotations should be a mix of Clinical Managers and Assistant Directors/Directors (3 CM/2 AD or 3 AD/2 CM)

³ At least 50% of rotations should be completed at the Medical Center. HCS = Health Care System (non-Medical Center)

⁴Quality rotation is a supplemental rotation completed in conjunction with the PGY1 capstone project

Required and Elective Rotations

Required Rotations		Preceptors
Operations Management	Understand the process of preparing and distributing medications and the resources that go into maintaining an optimal service (one rotation with automation / technology focus)	Medical Center: F Britt, C Parler (starting January 2025), G Chandran, C Falato, N Luter, K Naper, E Sabin, A Ward (Oct 2024), D Kirgesner (Oct 2024)

**PGY1/PGY2/MS Health-System Pharmacy Administration and Leadership Program
Residency Rotation Opportunities across PGY1 and PGY2**

		HCS: E King, S Muhsen, J Reichard, E Rowe, R Shah
Clinical Management	Understand the process of caring for patients and the resources that go into maintaining an optimal service	Medical Center: Z Deyo, C Falato, E Lineberry, K Rao, E Tinoco, L Sipkes HCS: K Keddington, R Chiou, L Foushee
Financial Management	Understand how a pharmacy department controls and manages its finances, specifically focused on cost minimization and revenue enhancement activities	Medical Center: S Eberwein HCS: B Granko
Director of Pharmacy	Understand the breadth and depth of a pharmacy department in an academic medical center, and how it is positioned in a hospital and health-system	J Valgus
Automation and Technology	Understand the integrated function of technology and automation, including the strategy, within a department of pharmacy operation.	Medical Center: G Chandran, C Falato, A Ward, N Luter, S Stout HCS: E Colmenares, E King, J Reichard, E Rowe, R Shah
Longitudinal Health-System Leadership	Understand the strategy and decision-making process for health-system pharmacy initiatives	TBD
Pharmacy Supply Chain Management	Understand supply chain integrity and how medications are purchased, distributed, and billed across the spectrum of care	K Donnowitz, E Rowe
Research	Focus on data collection and manuscript to ensure completion of MS project	Project Preceptor

PGY1/PGY2/MS Health-System Pharmacy Administration and Leadership Program
Residency Rotation Opportunities across PGY1 and PGY2

Quality	Understand how an organization complies with and maintains various regulations and incorporates them into daily workflow. Understand how a department of pharmacy contributes to overall organizational quality goals and external quality reporting. Understand how a department of pharmacy can apply Lean Six Sigma principles to improving its operations.	Various preceptors based on PGY1 capstone project (evaluation completed following implementation)
Medication Safety	Understand the principles of medication safety and application in a pharmacy department	K Dehne
Elective Rotations		Preceptors
Medication Use Process – Innovation and Intrapreneurship	Understand the intricacies of the medication use process in health-system pharmacy, areas where it can be improved, and emerging concepts and technologies of focus. This will be accomplished through better appreciating the terms innovation and intrapreneurship, their necessity for the future of health-system pharmacy administration, and how departments can develop this culture within its fabric.	S Eckel
Pharmacy Analytics and Outcomes (HCS)	Understand the principles of data analytics and visualization, dashboard development for department decision-making, and quality improvement strategies	E Colmenares
Specialty Pharmacy (HCS)	Understand the process of maintaining a specialty pharmacy clinical program, distributing specialty medications and the resources required to maintain a high level of service	R Shah
Business Operations (Financial Management, Rev Cycle, Managed Care, HR) and Business Development (Innovation, Discovery, Strategy, Quality) (HCS)	Understand pharmacy business operations including financial management, revenue cycle, managed care, and human resources. Understand the changes in the healthcare landscape and how they impact current and future pharmacy practice. Identify and prepare for innovative strategies and emerging discoveries to progress our profession and have pharmacy lead the system in innovation with a diversified portfolio.	B Granko
Pharmacy Benefits Management (HCS)	Understand the integral parts of a pharmacy benefits management system including formulary management, utilization management, and clinical monitoring program development	P Defalco
Investigational Drug Services (HCS)	Understand the process involved in preparing and dispensing clinical trial materials for researchers and daily operations of managing investigational drug services.	S Muhsen
Retail Pharmacy (HCS)	Understand the process of operationalizing a retail pharmacy and mail order pharmacy within a health system	S Aston

PGY1/PGY2/MS Health-System Pharmacy Administration and Leadership Program
Residency Rotation Opportunities across PGY1 and PGY2

Medication Assistance Program, Revenue Integrity, and Managed Care (HCS)	Understand the management of a health system medication assistance program supporting infusion services, specialty pharmacy and drug access for uninsured patients. Understand pharmacy revenue integrity and the payer landscape affecting pharmacy practice.	S Jean
Education, Research, and Practice Training Management	Focus on the process of managing the educational activities of pharmacy students and residents, coordinating across numerous programs, and on building a meaningful and impactful research engine within the pharmacy department	K Rao
System Level Leadership (HCS)	Understand the governance, strategy and relationships necessary and develop and execute upon a health-care system pharmacy structure.	R Thompson
System Pharmacy Operations (HCS)	Pharmacy Operations accounts for those operational teams within Shared Services Pharmacy. The resident will have the opportunity to experience, interact, and most importantly, engage in an executive-level role at a large regional health-system.	J Reichard
Innovation, Population Health and Health Equity Programs	<p>Population Health: Understand how to leverage innovation, market analyses, and strategic planning to create population health programs for value-based care, patient assistance programs, and UNC Health employer insured populations. Learn how to measure outcomes and metrics from these new programs.</p> <p>Health Equity: Understand how to identify and address health disparities from an individual, communal, and institutional level and participate in unique opportunities for pharmacy to advocate for equitable care.</p>	I Liu
340B Programs	Understand the compliance principles of 340B Program management, such as patient definition, orphan drug exclusion, duplicate discounts, 340B diversion, and group purchasing organization (GPO) prohibition.	P Shah, J Rush