PGY1 & PGY2 Combined Pharmacy Informatics Residency

(Note: This program combines the PGY1 Pharmacy – Aurora Health Care Metro, Inc. residency with the PGY2 Pharmacy Informatics residency for a two-year program. During the PGY1 year, see PGY1 Pharmacy – Aurora Health Care Metro, Inc. requirements. During the PGY2 Year – see below).

Program Structure

PGY2 residency programs build upon Doctor of Pharmacy (PharmD) education and PGY1 pharmacy residency training to develop pharmacist practitioners with knowledge, skills, and abilities as defined in the educational competency areas, goals, and objectives for advanced practice areas. Residents who successfully complete PGY2 residency programs are prepared for advanced patient care or other specialized positions, and board certification in the advanced practice area, if available.

As such, the PGY2 Pharmacy Informatics Residency is designed to prepare clinicians to practice as pharmacy informatics specialists and leaders within an integrated healthcare organization.

Required (CORE) Learning Experiences		
Learning Experience	**Typical Duration**	**Comments/Location**
CORE: Orientation	2 weeks	ASLMC/Remote
CORE: Epic Certification	6 weeks	Electronic Health Record training and completion of project(s) and exam(s) as provided by the vendor
CORE: Staffing (Site and PICS)	Longitudinal concurrently over 12 months	Staffing includes: • 1 x 10.5hr shift on a Sat and 1 x 10.5hr shift on a Sun every 3rd weekend (1st or 2nd shift) usually at Pharmacy Integrated Clinical Services (PICS) (Remote) • 2 holidays and 1 x 4.5-hr PM weekday shift every 3 weeks at site-based decentral staffing or site-based central pharmacy
CORE: Yearlong Project	Longitudinal concurrently over 12 months	Year Long Project work occurs concurrently with other scheduled Learning Experiences Residents typically spend 1-2 hours per week on average on Year Long Project learning experience expectations
CORE: Informatics Integration	6 weeks	An introduction and overview of all different IT application teams and processes
CORE: Electronic Health Record I	12-14 weeks	Concentrated on building, maintaining, and supporting a pharmacy information system/application across the medication use process
CORE: Pharmacy Automation	5 weeks	Experience with pharmacy robotics, applications, and databases
CORE: Medication Safety	Longitudinal 41 weeks	Participates in medication safety huddles and helps mitigate issues with informatics best practices

CORE: Outpatient Pharmacy	5 weeks	Focused learning experience related to retail pharmacies and ambulatory pharmacy clinics
CORE: Electronic Health Record II	2-4 weeks	Concentrated experience on advanced use of clinical decision support, developing/optimizing workflows, and cross-application build
CORE: Informatics Administration and Business Intelligence	Longitudinal 38 weeks	Learn informatics leadership and data analytics
CORE: Pharmacy Operations	4 weeks	Using informatics skills to support the pharmacy department
CORE: Informatics Training	2 weeks	Interact and learn responsibilities for managing and updating training resources
CORE: Data Management	4 weeks	Learn and perform a knowledge management data load into the electronic health record
CORE: Pharmacy Recruiting	Longitudinal concurrently over 5 months	Gain understanding and experience in pharmacy recruiting in a health care system
CORE: Pharmacy Grand Rounds	Concurrently over 12 weeks	ASLMC Occurs concurrently with other Learning Experiences. The resident will prepare and present a 1-hour CPE-accredited presentation When on this learning experience, residents spend 1-2 hours per week on average on the Pharmacy Grand Rounds learning experience expectations
Elective Learning Experience*		
Learning Experience	**Typical Duration**	**Comments/Location**
ELECTIVE: Oncology, Research, or Specialty Area(s)	4-6 weeks	• Focus on learning the medication use process in a particular specialized area

* Up to 1 elective is offered (ELECTIVE: Oncology, Research, or Specialty Area(s)). This elective focuses on the medication use process in a particular specialty area and is based on resident interest and preceptor availability. The resident's schedule is assessed every quarter during the resident development plan review and adjusted as needed to meet the program objectives and resident's goals. If the elective is added to the resident's schedule, the duration of selected core LE's will be shortened by not more than 1 week to allow the elective to be added into their schedule.

Example Resident Schedule

Week	Learning Experience *Exact order varies w/ each resident*	CORE: Pharmacy Grand Rounds *Exact timing during year varies w/each resident*	CORE: Medication Safety *Exact timing during year varies w/each resident*	CORE: Informatics Administration and Business Intelligence *Exact timing during year varies w/each resident*	CORE: Staffing (Site and PICS)	CORE: Year Long Project
1-4 (July)	CORE: Orientation CORE: Epic Certification				Entire year: • 1 x 10.5hr shift on a Sat and 1 x 10.5hr shift on a Sun every 3rd weekend • 2 holidays • 1 x 4.5-hr PM shift every 3 weeks	Entire year: average 1-2 hr/week
5-10 (Jul-Aug)	CORE: Informatics Integration					
11-22 (Sept-Nov)	CORE: Electronic Health Record I		Average 1-2 hr/week	Average 1-2 hr/week		
23-27 (Nov-Dec)	CORE: Pharmacy Automation					
28-31 (Dec-Jan)	CORE: Informatics Training + CORE: Data Management					
32-37 (Jan-Mar)	CORE: Electronic Health Record II + CORE: Pharmacy Recruiting					
38-43 (Mar-Apr)	ELECTIVE: Oncology, Research, or Specialty Area(s)	Average 2 hr/week				
44-48 (Apr-May)	CORE: Outpatient Pharmacy					
49-52 (May-Jun)	CORE: Pharmacy Operations + Residency wrap-up					

PGY2 Pharmacy Informatics Residency – Aurora Health Care Metro, Inc.

Program Completion Requirements

The Resident must complete all Completion Requirements to be eligible to receive a program completion certificate. Requirements in green are required in all WI-based Advocate Health Pharmacy Residency programs. Requirements in blue are specific to the program.

Completion Requirement	Learning Experience the requirement is typically addressed (Associated Objective, if applicable)	Location of Documentation	Q1 Status Not started; planned for (month) In progress; anticipate completion (month) Completed (date)	Q2 Status Not started; planned for (month) In progress; anticipate completion (month) Completed (date)	Q3 Status Not started; planned for (month) In progress; anticipate completion (month) Completed (date)	End of Residency Completed (date) *if not completed, resident is not eligible for completion certificate
WI Pharmacist Licensure as Per Residency Program Policy	NA	Workday				
Completed Training Manual & Competencies	CORE: Orientation	Returned to site manager/director				
Leadership Development Series: Attendance and Active Participation	NA	NA				
Presentation at WPRC (or equivalent conference, if necessary)	CORE: Yearlong Project (R5.5.2, R6.1.2)	Resident Files in PharmAcademic™ (final slides, poster pdf)				
Completed Project Manuscript in Publishable Format	CORE: Yearlong Project (R5.5.2, R6.1.2)	Resident Files in PharmAcademic™				
ASHP-required educational objectives: • At least 80% (61 of 76) of ASHP-required objectives evaluated as "Achieved for Residency" (ACHR) And	NA	PharmAcademic™				Final % ACHR:

• No objectives evaluated as Needs Improvement (NI) by the final time the objective is evaluated						
Complete Staffing Shifts: • 1 x 10.5 hr shift on a Sat and 1 x 10.5 hr shift on a Sun every 3rd weekend • 2 holidays • 1 x 4.5 hr PM shift every 3 weeks	CORE: Staffing (Site and PICS)	Resident Portfolio (Days worked track record)				
Residency Leadership Position - fulfill role as described in the residency manual	NA	NA				
Lead and Implement a Year Long Informatics Project or Equivalent	CORE: Yearlong Project (R1.2.3)	Resident Portfolio in PharmAcademic™				
Update existing or new databases on downstream technology systems that interoperate with the electronic health record	CORE: Pharmacy Automation Rotation (R.1.3.4)	Resident Portfolio in PharmAcademic™				
Review and update (assess gaps) and update department downtime manual	CORE: Informatics Integration Rotation (R1.5.1-3)	Resident Portfolio in PharmAcademic™				
Configure several medication build requests, referencing available build standard documents.	CORE: Electronic Health Record I Rotation (R2.1.1)	Resident Portfolio in PharmAcademic™				
Make recommendations on cause analysis/human factors/data analysis to improve medication order verification in response to a medication safety event.	CORE: Medication Safety Rotation (R2.3.2)	Resident Portfolio in PharmAcademic™				
Make recommendations for dispensing and compounding workflows, including robots, compliance packagers, central fill/shipping automation, and other dispensing/transport capabilities.	CORE: Outpatient Pharmacy Rotation (R2.4.2)	Resident Portfolio in PharmAcademic™				
Create at minimum one assigned report. Optimize report design to enhance data processing and database resources while providing supporting documentation and usable aliases.	CORE: Informatics Administration and Business Intelligence Rotation (R4.2.2)	Resident Portfolio in PharmAcademic™				
Devise and implement an enhancement to improve end user clinical monitoring workflows.	CORE: Electronic Health Record II Rotation (R2.6.2)	Resident Portfolio in PharmAcademic™				
Explore the medication safety related functionality of smart infusion pumps and	CORE: Medication Safety Rotation (R2.5.2)	Resident Portfolio in PharmAcademic™				

automated dispensing cabinets through topic discussion, learning modules, and project/committee involvement. Observe an end user's interaction with these technologies as he or she encounters this patient safety functionality.							
Optimize inventory par levels as assigned and/or conduct a 340B accumulator audit (or other data analysis related to inventory/purchasing/or other operational process, etc.)	CORE: Pharmacy Automation Rotation (R2.7.2)	Resident Portfolio in PharmAcademic™					
Devise at least one enhancement to improve end user transitions of care/medication reconciliation workflows.	CORE: Electronic Health Record II Rotation (R2.8.2)	Resident Portfolio in PharmAcademic™					
Create at least one decision support tool that utilizes and evaluates properties and custom rule logic to fulfill a request from an end user group or committee and facilitate the process of creation, testing, and gathering feedback.	CORE: Electronic Health Record II Rotation (R3.3.1)	Resident Portfolio in PharmAcademic™					
Create and present one accredited Continuing Pharmacy Education (CPE) program	CORE: Pharmacy Grand Rounds (R6.1.1-4)	Resident Portfolio In PharmAcademic™ (final slides uploaded)					
Participate in the department and/or team strategic planning process. Help set goals for the team.	CORE: Informatics Administration and Business Intelligence Rotation (R7.3.4)	Resident Portfolio in PharmAcademic™					
Apply professional service with all patient, providers, and colleagues.	CORE: Staffing (Site & PICS) (R7.2.1)	PharmAcademic™					
Prepare or outline a proposal for capital equipment purchase and all related processes.	CORE: Pharmacy Operations Rotation (R7.4.1)	Resident Portfolio in PharmAcademic™					
Effectively present yearlong project (and rehearsals) for Wisconsin Pharmacy Residency Conference (WPRC) or other venue.	CORE: Yearlong Project (R4.2.5)	Resident Portfolio in PharmAcademic™					
Create a written manuscript suitable for submission to a peer-reviewed journal.	CORE: Yearlong Project (R6.1.3)	Resident Portfolio In PharmAcademic™					

Acknowledgements				
	Q1	**Q2**	**Q3**	**End of residency**
Resident	Signature: Date:	Signature: Date:	Signature: Date:	Signature: Date:
RPD	Signature: Date:	Signature Date:	Signature Date:	Signature Date: