

2022–2023

# PGY2 Clinical Pharmacogenomics Pharmacy Residency



# The PGY2 Clinical Pharmacogenomics Residency Program

## Our Goal

In line with the ASHP PGY2 Program, Tabula Rasa HealthCare's (TRHC) PGY2 pharmacy residency program will provide residents with opportunities to function independently as practitioners by conceptualizing and integrating accumulated experience and knowledge, and incorporating both into the provision of patient care focused in pharmacogenomics (PGx). Residents who successfully complete the residency are prepared for advanced patient care, academic, or other specialized positions, along with board certification, if available.

## Learning Experiences

The PGY2 resident will gain experiences in clinical PGx in a fee-for-value healthcare environment, including longitudinal and block experience in the following areas:

### Resident Experiences Include:

- Residency orientation
- Foundational PGx
- Translational PGx
- Applied PGx and clinical pharmacology\*
- Research, writing, and education\*
- Healthcare science and technology\*
- Drug information\*

### Elective Learning Experiences:

- Pharmacoinformatics and healthcare technology
- Practice management and marketing
- Risk stratification and database management
- TRHC University

\*longitudinal experiences

## Foundational PGx

During this block learning experience, the PGY2 resident will have a concentrated introduction to learning and applying principles of clinical pharmacology and PGx. Specifically, the PGY2 resident will learn how to critically appraise PGx literature, extract pharmacokinetic data from the literature for individual medications, and build a foundation of knowledge on genomics and PGx.

## Translational PGx

During this block learning experience, the PGY2 resident will continue to extract pharmacokinetic data from the literature for individual medications and will build upon the foundation of knowledge in genomics and PGx gained from the foundational PGx rotation. Importantly, the PGY2 resident will learn about concepts and challenges related to clinical implementation of PGx, including different patient care models and reimbursement barriers. This rotation aims to prepare the PGY2 resident to translate findings in the PGx literature to clinical practice, with additional focus on therapeutic areas not directly covered in the patient care PGx services provided by TRHC (e.g., infectious disease PGx and oncology PGx).



## Applied PGx and Clinical Pharmacology

During this core learning experience, the PGY2 resident will have a concentrated focus on learning and applying principles of clinical pharmacology and PGx. Specifically, the PGY2 resident will learn about competitive inhibition, engage in a deep dive into the biomedical literature to extract pharmacokinetic data for individual medications, accumulate knowledge on PGx, and provide tailored PGx consults and/or MedWise® Safety Reviews for individual patients based on drug-drug, drug-gene, and drug-drug-gene interactions. Additionally, the PGY2 resident will collaborate with the preceptor and other team members to advance the sciences of applied PGx and clinical pharmacology.

### Resident Experiences Include:

- Advocating for the rational and routine use of PGx testing
- Coordinating activities of the organization's PGx clinical services and serving as a liaison with PGx laboratories and vendors
- Serving as an expert consultant for the organization's PGx clinical services (current and prospective)
- Supporting and participating in research, consortia, and networks that guide and accelerate the application of PGx to clinical practice
- Supporting and participating in PGx-based clinical decision support (CDS)
- Providing effective PGx-related education to patients, caregivers, healthcare professionals, PGY1 residents, and students

## Research, Writing, and Education

The PGY2 resident will gain experience with data collection, research design, and protocol development. The PGY2 resident will be expected to complete an extensive research-based culminating project, to be publication-ready by the end of the residency program year. The program will support the PGY2 resident with the dissemination of research, including presentations at national pharmacy and/or clinical pharmacology and therapeutics conferences. Additionally, the PGY2 resident will gain experience with professional writing, including performing written consults and MedWise Safety Reviews, responding to drug information inquiries, writing for newsletters, and collaborating with other professionals to help compose manuscripts for submission to leading journals. Moreover, the PGY2 resident will also be involved in education by giving Continuing Education presentations and training pharmacy students, PGY1 residents, and colleagues.

## Healthcare Science and Technology

Working for a company that leverages technology to provide healthcare to diverse populations, the PGY2 resident will gain an understanding of how healthcare informatics, big data, and technology play key roles in population health management and precision medicine. Furthermore, the PGY2 resident will gain hands-on experience working in cross-functional teams with pharmacists and software developers to contribute to, refine, and develop new modalities in the clinical decision support system. The PGY2 resident will also have the opportunity to work with data scientists to learn about the tools used to gather and analyze big data. Additionally, the PGY2 resident will have the opportunity to bring creative ideas to the company, as well as manage their own project(s), with preceptor oversight.

## Drug Information

The PGY2 resident is responsible for serving as an internal drug information resource for staff and clients as it relates to PGx. Specifically, the PGY2 resident will be responsible for responding to PGx-related clinical inquiries. Moreover, the PGY2 resident will be expected to contribute to the internal newsletter, the Clinical Inquirer, publish PGx-related case reports, and keep abreast of any PGx-related literature updates to disseminate knowledge internally.



## Residency Director




Dr. Nishita Shah Amin received her Doctor of Pharmacy degree from the University of the Sciences, Philadelphia College of Pharmacy and she completed a Post Graduate Year-1 Pharmacy Practice Residency at Northport VA Medical Center in Northport, N.Y. She also is a board-certified geriatric pharmacist (BCGP), and a board-certified pharmacotherapy specialist (BCPS). Dr. Amin joined TRHC (CareKinesis) as a clinical pharmacist, whereby she spear-headed a transitions of care pilot program with rehabilitation centers. During her time with the company, she also has worked as a clinical pharmacist, providing medication therapy management services for PACE across the country. Dr. Amin also has supervised medication therapy management services for approximately five PACE organizations. She now serves as Director of Pharmacy Practice Residency Programs and is responsible for mentoring pharmacists to utilize their accumulated knowledge and experiences in order to practice personalized and precision medicine and to excel in their future professional endeavors.



## Applied PGx and Clinical Pharmacology Preceptor

Dr. Adriana Matos received her Bachelor of Arts (BA) degree in Biology from Kean University and her Doctor of Pharmacy (PharmD) degree from Fairleigh Dickinson University School of Pharmacy & Health Sciences. Dr. Matos completed a PGY1 Pharmacy Practice Residency in Geriatric Personalized Medicine with CareKinesis. She is also a board-certified geriatric pharmacist (BCGP). Presently, as a Research Pharmacist for TRHC's Applied Precision Pharmacotherapy Institute (APPI), Dr. Matos collaborates with key stakeholders in order to perform various research projects and company initiatives. In addition, Dr. Matos provides pharmacogenomics (PGx) consultation services to healthcare providers and is currently the preceptor for the Applied PGx & Clinical Pharmacology learning experience for PGY1 and PGY2 pharmacy residents and Advanced Pharmacy Practice Experiential students.

## About Us

-  1-888-9-PharmD (1-888-974-2763)
-  228 Strawbridge Dr. | Moorestown, NJ 08057
-  [trhc.com](http://trhc.com)

## To apply

Apply through the Pharmacy Online Residency Centralized Application Service (PhORCAS) system or directly at: [trhc.com/careers](http://trhc.com/careers)

This residency site agrees that no person at this site will solicit, accept, or use any ranking related information from any residency applicant.



The PGY2 Clinical Pharmacogenomics Residency conducted by Tabula Rasa HealthCare, Moorestown, NJ has an accreditation candidate status with ASHP.