

Hospital and Department Overview

Brigham and Women's Hospital, located in Boston's Longwood Medical Area, is a 793-bed nonprofit teaching affiliate of Harvard Medical School and a founding member of Partners HealthCare, Inc. In 2019-2020, BWH was named the 13th best hospital in the United States by US News & World Report's Honor Roll of America's Best Hospitals. The Department of Pharmacy provides services to inpatient, outpatient, and satellite clinic locations throughout the Metro Boston area. The department is regarded as an innovator and leader in medication safety technology, clinical information systems, and clinical pharmacy services at the local and national level.

Brigham and Women's Hospital

PGY-2 Cardiology Pharmacy Residency

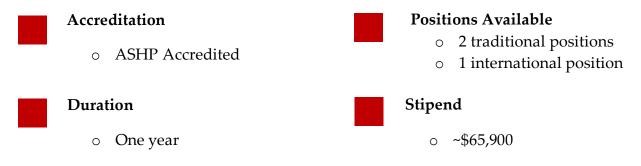


General Information

The Department of Pharmacy at Brigham and Women's Hospital offers a specialized residency in cardiology pharmacy practice. This one-year program is designed to provide advanced training in the area of cardiovascular pharmacotherapy and research.

Program Fundamentals

The PGY2 pharmacy residency programs build on Doctor of Pharmacy (Pharm.D.) education and PGY1 pharmacy residency programs to contribute to the development of clinical pharmacists in advanced or specialized practice. PGY2 residencies 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 that improves medication therapy. Residents who successfully complete an accredited PGY2 pharmacy residency should possess competencies that qualify them for clinical pharmacist and/or faculty positions and position them to be eligible for attainment of board certification in the specialized practice area (when board certification for the practice area exists).



Program Leadership



Danielle Knowles, PharmD, BCPS, BCCP, CACP PGY-2 Cardiology Pharmacy Residency Director Clinical Pharmacy Specialist Department of Pharmacy Services Brigham and Women's Hospital 75 Francis Street Boston, Massachusetts 02115 dmknowles@bwh.harvard.edu



Delaney Corcoran, PharmD, BCCP
PGY-2 Cardiology Pharmacy Residency Coordinator
Clinical Pharmacy Specialist
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PGY-2 Cardiology Pharmacy Residency Coordinator
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Prerequisites and Licensure

- Doctor of Pharmacy degree from an accredited school or college of pharmacy
- Completion of an ASHP-accredited PGY-1 pharmacy practice residency
- Massachusetts pharmacist licensure required within 120 days of residency start date
- US citizenship or permanent resident visa

Application Information

- Curriculum vitae, letter of intent, recommendation letters due by January 1st
 - o All applications and documents should be submitted via Phorcas
- On-site interviews by invitation only

Program Structure

The BWH residency programs are all one-year programs that provide diverse rotations in many areas of specialization and offer experience in the provision of adult patient-centered care. The scheduling of resident rotations includes a combination of required and elective rotations to ensure that the resident is exposed to a variety of patient populations, medications, disease states, range of complexity, and interdisciplinary team members.

All incoming PGY1 residents and any external PGY2 residents will complete a six-week required orientation learning experience with the Brigham and Women's Pharmacy Department. This introductory training experience will prepare the resident to perform the job functions as required as a pharmacist in the department. This will also serve to provide administrative insights into the provision of pharmacy services within the hospital and to contribute to perspectives for subsequent participation in clinical and/or administrative project activities. All early commit PGY2 residents will undergo an orientation to the PGY2 program outlining expectations, program structure, and responsibilities.

The standard length of time for a learning experience is four (4) weeks except for in the coronary care unit (CCU), where this rotation is six (6) weeks in length. For PGY2 residents, the eleven (11) learning experiences listed below comprise the required residency experiences for the program. External residents will be provided 4 weeks of elective time in which they may experience one 4-week rotation. Early commit residents will be provided 8 weeks of elective time in which they may experience two 4-week elective experiences (unless otherwise discussed with the RPD/residency coordinator). All required and elective learning experiences are listed below.

For additional information on resident learning experiences, additional required activities, and other specific program details please see the Pharmacy Residency Manual

Required PGY2 Cardiology Learning Activities*	Elective Learning Activities	Longitudinal Activities
 Orientation Coronary Care ICU Cardiac Surgery ICU AMB – Cardiology Clinic AMB – Anticoagulation Management Service Electrophysiology General Cardiology (NEER/SMITH) Heart Failure Heart Transplant Hemostatic Antithrombotic Stewardship Advanced Integrated Clinical Pharmacy Practice 	 AMB (focused on diabetes) Jen Center 800 Huntington South Huntington AMB – Accelerator for Clinical Transformation AMB – Heart Failure Pharmacotherapy Critical Care (one of the following) Medical ICU Thoracic ICU Academia Emergency Medicine Medication Safety 	 Research project Service Commitment (staffing) Aminoglycoside Program Committee Membership Inpatient Orthopedic Anticoagulation Management (AMMO) Service Heart Failure Infusion Clinic (ACTIVE) Student Precepting

Rotation	Preceptors
Coronary Care ICU	Danielle Knowles, PharmD BCPS, BCCP, CACP
Cardiac Surgery ICU	Brian Schuler, PharmD, BCCCP Justin Culshaw, PharmD, BCCCP
General Cardiology	Dareen Kanaan, PharmD, MPH, BCCP Delaney Corcoran, PharmD, BCCP
Hemostatic and Antithrombotic Stewardship	Dareen Kanaan, PharmD, MPH, BCCP Delaney Corcoran, PharmD, BCCP
Heart Failure	Judy Cheng, PharmD, MPH, BCPS
Heart Transplant	Miae Kim, PharmD, BCPS
Anticoagulation Management Service (AMS)	Andrea Lewin, PharmD, CACP
Ambulatory Cardiology Clinic	Jackie Papadopoulos, PharmD, BCACP
Ambulatory Care Diabetes Clinic	Amy Bilodeau, PharmD, BCACP
Medical ICU	Kevin Dube, PharmD, BCCCP, BCPS
Thoracic ICU	Gaspar Hacobian, PharmD, BCPS
Academia	Stephanie Sibicky, PharmD BCPS, BCGP
Emergency Medicine	Kaylee Marino, PharmD, BCPS, BCCCP
Medication Safety	Heather Dell'Orfano, PharmD, CACP, CPPS, BCPS – AQ Cardiology

A full list of pharmacy residency preceptors with photos and titles can be found $\underline{\text{here.}}$

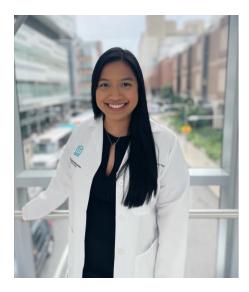
Requirements for Successful Completion of the PGY2 Cardiology Residency Program

- Successfully licensed as a practicing pharmacist in the state of Massachusetts within 90 days of residency start date
- Successful completion of all required rotation learning experiences
 - o Orientation
 - Coronary Care ICU
 - o Cardiac Surgery ICU
 - General Cardiology (NEER/SMITH)
 - o Heart Failure
 - Hemostasis and Antithrombotic Stewardship (HAT)
 - Anticoagulation Management Service (AMS)
 - Heart Transplant
 - o Ambulatory cardiology clinic
 - o Advanced Integrated Clinical Pharmacy Practice
 - Electrophysiology
- Successful completion of all longitudinal learning experiences (4 opportunities)
 - o Aminoglycoside Program
 - Committee Membership
 - o Inpatient Orthopedic Anticoagulation Management (AMMO) Service
 - o Heart Failure Infusion Clinic (ACTIVE)
 - Research
- Successfully document the completion of all assigned disease states in the resident topic discussion spreadsheet
- Successfully reached 80% Achieved for Residency with objectives in Pharmacademic
- Adhere to duty hour policy and complete monthly duty hour tracking in Pharmacademic
- Conference poster presented at the ACC scientific sessions or some equivalent
- Successful completion of final report or manuscript of resident research project
- Successful completion one ACPE-accredited continuing education program with completed Pharmacademic evaluation
 - Continuing education program during heart week
- Successful completion of additional presentations as assigned with completion of longitudinal Pharmacademic evaluation
 - o In-services as appropriate per rotation
 - o At least 5 Pharmacist Huddle presentations
- Participation in Conferences
 - ACC Scientific Sessions or alternative national conference
- Successful completion of professional practice requirements (staffing)
 - Central operations every third weekend and one weekday evening on resident-rotating basis
- Successful completion of Medication Policy Requirements
 - At least one written drug administration guideline (DAG) prepared for DAG Committee
 Review and presented at a Pharmacy and Therapeutics Committee

- Successful completion of additional required manuscripts/publications/posters
 - o Resident poster presented at ACC scientific sessions or other national conference
 - Manuscript draft for publication
- Successful completion of all required documentation
 - o Initial ASHP assessment
 - o Quarterly self-assessments as part of the Resident Development Plan
 - o All learning experience and preceptor and learning experience evaluations
 - o Final assessment of residency and feedback
- Obtained both Basic Life Support certification and Advanced Cardiac Life support by the end of your residency year

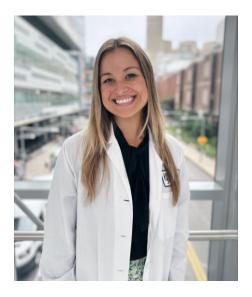
Current BWH PGY-2 Cardiology Residents

2023-24



Rebecca Sek, PharmD

- PGY-1: Brigham and Women's Hospital Boston, MA



Madeleine DePinho, PharmD

- PGY-1: Mount Auburn Hospital Cambridge, MA



Sumaiah Alarfaj, PharmD, BCPS, FHAE

- PGY-1: Banner-University Medical Center Tucson, AZ

Previous BWH PGY-2 Cardiology Residents



Ju Hee Kim, PharmD Current Practice Site: Brigham and Women's Hospital, Boston, MA



Liriany Pimentel, PharmD

Current Practice Site: Brigham and
Women's Hospital, Boston, MA



Mohsen Alzaria, PharmD Current Practice Site: Clinical Research Fellow, Brigham and Women's Hospital, Boston, MA



Omar Alkhezi, PharmD Current Practice Site: Faculty, Qassim University, Saudi Arabia

2021-2022



Anna Crider, PharmD, BCCP Current Practice Site: Emory University Hospital, Atlanta, GA



Delaney Corcoran, PharmD, BCCP Current Practice Site: Brigham and Women's Hospital, Boston, MA

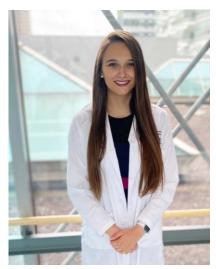


Abdullah Alahmed, PharmD Current Practice Site: Assistant Professor, Qassim University, Saudi Arabia



Ehsan Habeeb, PharmD, BCPS, BCCP Current Practice Site: Faculty Taibah University, Saudi Arabia

2020-2021



Dareen Kanaan, PharmD, MPH, BCCP Current Practice Site: Brigham and Women's Hospital, Boston, MA

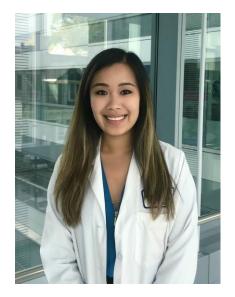


Brandon Beers, PharmD, BCCP Current Practice Site: Alamance Regional Medical Center, Chapel Hill, NC

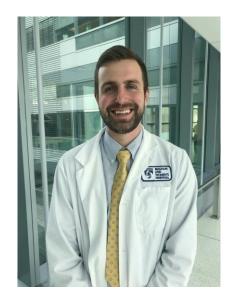


Asmaa Alboushi, PharmD Current Practice Site: Assistant Professor, Kuwait University, Kuwait City

2019-2020



Clara Ting, PharmD BCCP Current Practice Site: University of Chicago Medical Center, Chicago, IL



Tom Bernier, PharmD BCCP Current Practice Site: Rush University Medical Center, Chicago, IL



Nayyra Fatani, PharmD Current Practice Site: King Abdulaziz University

2018-2019



Sana'a Alsulami, PharmD Current Practice Site: National Guard Health Affairs - King Abdulaziz Medical City



Awatif Hafiz, PharmD BCCP Current Practice Site: King Abdulaziz Medical City and Assistant Professor, King Saud University



Julie Kelly, PharmD BCPS BCCP Current Practice Site: Beth Israel Deaconess Medical Center, Boston, MA



2017-2018

Megan Marsh, PharmD

Current Practice Site: Ruby Memorial
Hospital, Muncie, IN



2016 – 2017Megan Rhoten, PharmD BCPS BCCP
Current Practice Site: Carilion Clinic,
Roanoke, VA

Hisham Badreldin, PharmD BCPS Current Practice Site: Associate Professor, King Saud Bin Abdulaziz University for Health Sciences, Riyadh, Saudi Arabia

