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).

Accreditation
- ASHP Candidate Status

Duration
- One year

Positions Available
- 2 traditional positions
- 1 international position

Stipend
- ~$52,000
Program Leadership

Rhynn Malloy, PharmD BCPS BCCP
Clinical Pharmacy Specialist
PGY-2 Cardiology Pharmacy Residency Coordinator
Department of Pharmacy Services
Brigham and Women’s Hospital
75 Francis Street, PBB –A4
Boston, Massachusetts 02115
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Lina Matta, PharmD BCPS MPH
PGY-2 Cardiology Pharmacy Residency Director
Director of Ambulatory Pharmacy and Population Health
Department of Pharmacy Services
Brigham and Women’s Hospital
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Boston, Massachusetts 02115
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lmatta@bwh.harvard.edu

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 by October 1st
- US citizenship or permanent resident visa

Application Information

- Curriculum vitae, letter of intent, recommendation letters due by December 31, 2019
  - 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 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 one month except for in the coronary care unit (CCU) and ambulatory cardiology clinic these are a standard six (6) weeks. For PGY1 residents, the eight (8) 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

<table>
<thead>
<tr>
<th>Required PGY2 Cardiology Learning Activities*</th>
<th>Elective Learning Activities</th>
<th>Longitudinal Activities</th>
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<tbody>
<tr>
<td>• Orientation</td>
<td>• AMB (focused on diabetes)</td>
<td>• Research project</td>
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<tr>
<td>• Coronary Care ICU</td>
<td>o Jen Center</td>
<td>• Service Commitment</td>
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<tr>
<td>• Cardiac Surgery ICU</td>
<td>o 800 Huntington</td>
<td>(staffing)</td>
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<tr>
<td>• AMB – Cardiology Clinic</td>
<td>o South Huntington</td>
<td>• Aminoglycoside</td>
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<tr>
<td>• AMB – Anticoagulation Management Service</td>
<td>• AMB – Virtual Hypertension</td>
<td>Program</td>
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<tr>
<td>• General Cardiology I (B1):</td>
<td>and Hyperlipidemia Clinic</td>
<td>• Committee Membership</td>
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<tr>
<td>o Medication Reconciliation</td>
<td>• Critical Care (one of the</td>
<td>• Inpatient Orthopedic</td>
</tr>
<tr>
<td>o Transitions of Care</td>
<td>following)</td>
<td>Anticoagulation</td>
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<tr>
<td>• General Cardiology II (B2)</td>
<td>o Medical ICU</td>
<td>Management (AMMO)</td>
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<tr>
<td>• Heart Failure</td>
<td>o Thoracic ICU</td>
<td>Service</td>
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<tr>
<td>• Heart Transplant</td>
<td>• Academia</td>
<td>Clinic</td>
</tr>
<tr>
<td>• Hemostatic Antithrombotic Stewardship</td>
<td>• Emergency Medicine</td>
<td>• Heart Failure Infusion</td>
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*Unless otherwise approved by RAC; AMB = ambulatory
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<thead>
<tr>
<th>Rotation</th>
<th>Preceptors</th>
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<tbody>
<tr>
<td>Coronary Care ICU</td>
<td>Danielle Carter, PharmD CACP BCPS</td>
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<td></td>
<td>Bryan Cook, PharmD BCPS</td>
</tr>
<tr>
<td>Cardiac Surgery ICU</td>
<td>Rhynn Malloy, PharmD BCPS</td>
</tr>
<tr>
<td>General Cardiology (B1/B2)</td>
<td>Ken Lupi, PharmD BCPS</td>
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<tr>
<td></td>
<td>Jillian Dempsey, PharmD BCPS</td>
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<td></td>
<td>Megan Rhoten, PharmD BCPS</td>
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<tr>
<td>Hemostatic and Antithrombotic</td>
<td>Jessica Rimsans, PharmD BCPS</td>
</tr>
<tr>
<td>Stewardship</td>
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</tr>
<tr>
<td>Heart Failure</td>
<td>Judy Cheng, PharmD BCPS, MPH</td>
</tr>
<tr>
<td>Heart Transplant</td>
<td>Miae Kim, PharmD BCPS</td>
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<tr>
<td>Anticoagulation Management</td>
<td>Andrea Resseguie, PharmD CACP</td>
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<tr>
<td>Service (AMS)</td>
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<tr>
<td>Ambulatory Cardiology Clinic</td>
<td>Jackie Dunning, PharmD BCACP</td>
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<tr>
<td>Ambulatory Care Diabetes Clinic</td>
<td>Amy Bilodeau, PharmD BCACP</td>
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<tr>
<td>Virtual Hypertension and</td>
<td>Hunter Nichols, PharmD BCPS</td>
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<td>Hyperlipidemia Clinic</td>
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<tr>
<td>Medical ICU</td>
<td>Jeremy DeGrado, PharmD BCCCP BCPS</td>
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<tr>
<td>Thoracic ICU</td>
<td>Gaspar Hacobian, PharmD BCPS</td>
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<tr>
<td>Academia</td>
<td>Stephanie Sibicky, PharmD BCPS BCGP</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>Sarah Culbreth, PharmD BCPS</td>
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Requirements for Successful Completion of the PGY2 Cardiology Residency Program

- Successfully licensed as a practicing pharmacist in the state of Massachusetts by October 1st
- Successful completion of all required rotation learning experiences
  - Orientation
  - Coronary Care ICU
  - Cardiac Surgery ICU
  - General Cardiology I (B1)
  - General Cardiology II (B2)
  - Heart Failure
  - Hemostasis and Antithrombotic Stewardship (HAT)
  - Anticoagulation Management Service (AMS)
  - Heart Transplant
  - Ambulatory cardiology clinic
- Successful completion of all longitudinal learning experiences (4 opportunities)
  - Aminoglycoside Program
  - Committee Membership
  - Inpatient Orthopedic Anticoagulation Management (AMMO) Service
  - Heart Failure Infusion Clinic
- 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
  - In-services as appropriate per rotation
  - At least 5 Pharmacy 3pm Clinical Meetings
- 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
  - 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

Clara Ting, PharmD
- PGY-1 Brigham and Women’s Hospital
  Boston, MA

Tom Bernier, PharmD
- PGY-1: VA Nebraska-Western Iowa Health Care System
  Omaha, NE

Nayyra, PharmD
- PGY-1: Saint Elizabeth’s Medical Center
  Boston, MA
Previous BWH PGY-2 Cardiology Residents

2018-2019

Julie Kelly, PharmD BCPS
Current Practice Site: Senior Pharmacist, Brigham and Women’s Hospital, Boston, MA

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

Sana’a Al-Sulami, PharmD
Current Practice Site: Brigham and Women’s Hospital

2017-2018

Megan Marsh, PharmD
Current Practice Site: Senior Pharmacist, Nantucket Cottage Hospital, Nantucket, MA; Brigham and Women’s Hospital, Boston, MA
2016 – 2017

Megan Rhoten, PharmD BCPS
Current Practice Site: Senior Pharmacist, Brigham and Women’s Hospital, Boston, MA

Hisham Badreldin, PharmD BCPS
Current Practice Site: Cardiovascular Clinical Pharmacist, King Abdulaziz Medical City and Assistant Professor, King Saud University