

# Specialized Research Fellowship in Outcomes Research/Pharmacy Informatics



**BRIGHAM AND  
WOMEN'S HOSPITAL**  
A Teaching Affiliate of Harvard Medical School



**MCPHS**  
UNIVERSITY

## PROGRAM GOALS

This two-year fellowship program will train clinical pharmacists to conduct outcomes research focusing on quality and safety. The fellow will participate on interdisciplinary research teams and also work on individual projects to evaluate outcomes using informatics resources. The fellow will also obtain experience teaching in the field of medication safety, pharmacy informatics and outcomes research.

## PROGRAM HIGHLIGHTS

- Availability of coursework to develop and support research skills
- Involvement in all aspects of research projects, including development of a research proposal, collecting and analyzing data, preparing abstracts and manuscripts, and presentation of work at a professional or scientific meeting.
- Opportunity to complete a teaching certificate program, and obtain experience lecturing and conducting small group journal clubs for Pharm.D. students

## FELLOWSHIP OBJECTIVES

Upon completion of the program the fellow will have achieved the following:

- Demonstrate a basic knowledge of and ability to apply research techniques to research projects focused on improving medication safety and patient outcomes.
- Contribute to research studies that utilize expertise in pharmacy practice, such as those that study adverse drug events, medication prescribing and patient safety.

- Utilize drug literature evaluation skills to engage in evidence-based medicine approaches
- Conduct an outcomes research project that is approved by an advisory committee comprised of the fellowship program director and faculty preceptors at BWH and MCPHS.
- Demonstrate ability to identify funding opportunities for projects and apply for funding.
- Submit a research protocol to the IRB for approval before conducting research.
- Publish (peer reviewed) and present results of a research project at a national meeting.
- Effectively communicate and collaborate with faculty in the Division of General Internal Medicine at BWH, the Department of Pharmacy Practice and Department of Pharmaceutical Sciences at MCPHS, and healthcare professionals and co-researchers at study sites.
- Utilize and understand computer systems involved in current research projects.
- Incorporate informatics strategies and principles into the research process

## PROGRAM ADMINISTRATION

Fellowship activities will take place in the Division of General Medicine & Primary Care at Brigham & Women's Hospital (BWH) in Boston and at MCPHS University, School of Pharmacy-Boston. At BWH the fellow will be introduced to the field of outcomes research by participating in current studies ongoing within the Division. In addition, with guidance from faculty, the fellow will develop a research

proposal that involves concepts of medication safety and may involve the use of pharmacy informatics. MCPHS faculty will also provide guidance in the area of teaching, curricular development and assessment.

#### DIVISION OF GENERAL MEDICINE & PRIMARY CARE, BWH

Division faculty members conduct several funded research protocols including those in a Center of Excellence that is funded by the Agency for Healthcare Quality and Research (AHRQ). The fellow will have the ability to participate on research teams which include physicians, pharmacists, nurses, biostatisticians, computer programmers and research assistants conducting studies that use information technology to improve medication safety.

The fellow will also have the opportunity to take classes at Harvard School of Public Health's Program in Clinical Effectiveness, to increase quantitative and analytic skills needed for clinical research. David Bates MD, Chief of the Division of General Medicine & Primary Care will act as mentor for this portion of the program. Opportunity to obtain a Master of Science (MS) degree or a Master of Public Health (MPH) degree if accepted into the program is also available. BWH is a tertiary care hospital with 716 beds, a founding member of Partners Healthcare System and a teaching affiliate of the Harvard Medical School. The fellow will be supervised by Mary Amato, PharmD, MPH, Sponsored Staff, Division of General Internal Medicine & Primary

Care at BWH and Professor of Pharmacy Practice, MCPHS University

#### MCPHS UNIVERSITY (FORMERLY MASSACHUSETTS COLLEGE OF PHARMACY AND HEALTH SCIENCES)

Founded in 1823, MCPHS University is situated in the Longwood Medical and Academic area within walking distance of numerous prestigious colleges, universities, and teaching hospitals. This proximity affords students, residents, and fellows with many opportunities to interact with renowned scientists, practitioners and faculty within the health care field. MCPHS grants degrees in several undergraduate and graduate health professions programs.

The School of Pharmacy at MCPHS is comprised of the Department of Pharmacy Practice and the Department of Pharmaceutical Sciences. The faculty within the School of Pharmacy-Boston is committed to educating and training pharmacists to deliver high quality pharmaceutical care. They have a variety of expertise and maintain practice sites and conduct research in the Longwood Medical Area and throughout Massachusetts. The Department of Pharmaceutical Sciences is comprised of faculty in the basic and social administrative sciences. MCPHS-Boston has an International Center for Pharmacoeconomics and Policy with faculty who are available to serve as resources for the fellow and potentially collaborate on projects.

#### FACULTY ADMINISTRATION

David W. Bates, M.D., M.Sc.  
Chief Quality Officer and Senior Vice President for Quality and Safety and Chief, Division of General Internal Medicine and Primary Care, Brigham and Women's Hospital; Medical Director of Clinical and Quality Analysis, Partners Healthcare, Boston, Massachusetts; Professor of Medicine, Harvard Medical School and Professor of Health Policy and Management Harvard School of Public Health

Mary Amato, PharmD, MPH, BCPS  
Sponsored Staff, Division of General Medicine & Primary Care, Brigham and Women's Hospital and Professor of Pharmacy Practice, MCPHS University, School of Pharmacy-Boston

#### Application Requirements:

Interested candidates must have completed a Doctor of Pharmacy Program and should have at least one year of residency training or two years of Pharmacy Practice experience. Candidates must also be U.S. licensed pharmacists.

Applicants should submit a letter of intent, curriculum vitae, and three letters of reference to:

Mary Amato, PharmD, MPH, BCPS  
Professor of Pharmacy Practice  
MCPHS University  
179 Longwood Ave  
Boston, MA 02115  
(617) 879-5043 (voice)  
mary.amato@mcphs.edu (email)