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The Division of Pharmacoepidemiology and Pharmacoeconomics at Brigham and Women's Hospital Department of Medicine and Harvard Medical School is accepting applications for post-doctoral fellows in pharmacoepidemiology - applied and methodologically focused.

The Division includes 30 faculty (drugepi.org/dope/team) and 80 staff who work closely together to research how we use medications effectively and improve health. We are a world-leading interdisciplinary research center that brings together the various specialties of medicine, epidemiology, biostatistics, health services research, legal, regulatory and the social sciences to evaluate the effectiveness of prescription drugs in relation to their risks and costs; to study how medications are prescribed and used; to develop methods to optimize prescription drug use; to understand how medicines are approved and regulated after their marketing. The Division is a first-rank training site for graduate students and fellows in a variety of subject areas and methodological research.

We are seeking one or more self-motivated, diligent, and independent fellows to work with Division faculty within the Program on the Pharmacoepidemiology of Metabolic Diseases (PROMISE), a multidisciplinary team with expertise in pharmacoepidemiology, statistics, endocrinology, nephrology, cardiology, and obesity medicine with the mission to advance the understanding of the treatments for cardio-metabolic-renal diseases in clinical practice, to inform medical prescribing and improve patient care. The available post-doctoral fellow positions are described below:

- **Answering high-impact questions to inform clinical decision making on the comparative effectiveness and safety of medications in cardio-metabolic and renal conditions by applying and advancing cutting-edge methods:** A fellow working in this area will collaborate closely with Division faculty who are leaders in the pharmacoepidemiology of cardio-metabolic and renal diseases to answer critical clinical questions on the use of medications and their comparative effectiveness and safety leveraging real-world data, including administrative claims, electronic health records, and clinical registries. Fellows will have the opportunity to lead several important research studies. The ideal candidate would be a team player and have a doctoral degree in pharmacoepidemiology and ideally a clinical background, or a degree in medicine combined with pharmacoepidemiology/ epidemiology training, and prior programming experience.
- **Developing and implementing cutting-edge methods to bridge the gap between randomized clinical trials (RCTs) and real-world evidence (RWE):** RCTs and RWE are critical and complementary sources of evidence generation about the benefits and safety of medical products. A

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fellow working in this area will be involved in several interrelated projects that will leverage individual-level RCT data to explore this complementarity and will be expected to explore and test novel analytical approaches for analysis of RCT and real-world data. Training and experience in statistical modeling and programming is required. Experience with developing prediction models, model validation and calibration approaches, imputation methods, Monte Carlo simulations, and machine learning algorithms is highly desirable.

Interested individuals should send their CV and a personal statement to Shamika More at smore1@bwh.harvard.edu or visit www.bwhpromise.org/opportunities