The Department of Population Medicine (DPM) resides within the Harvard Pilgrim Health Care Institute (HPHCI), and is an appointing department of Harvard Medical School. DPM does the research that helps provide information to people at all levels of our health care system, from government health officials to private citizens faced with day-to-day choices about how to maintain their own health. We inform regulatory and policy decision-makers, and individual clinicians and patients who need reliable evidence about what treatments and medications work best for specific conditions. Here at DPM we work to create a knowledge base that enriches both health care systems and the quality of medical education.

Summary of Position
The Biostatistician will provide statistical and programming support for faculty and PhD-level staff biostatisticians and investigators to primarily support the Sentinel Program [www.mini-sentinel.org], a program sponsored by the U.S. Food and Drug Administration (FDA) for monitoring the safety of FDA-regulated medical products. The Biostatistician will provide statistical and programming support for the fulfillment of FDA-initiated queries of medical product safety issues, protocol-based studies and surveillance activities, statistical methods and tool development activities. The Biostatistician will sit within DPM’s Biostatistics Center and will receive mentoring and guidance from experienced faculty biostatisticians with in-depth statistical expertise on a variety of topics including causal inference, missing data, time-varying exposure and confounding in longitudinal data, and time-series analysis. The Biostatistician will have opportunities to work with other research groups at DPM.

Duties and Responsibilities
1. Work closely with PhD-level staff and faculty biostatisticians and Sentinel investigators to provide statistical support for various Sentinel activities including fulfillment of FDA-initiated queries of medical product safety issues, protocol-based assessments, active surveillance activities, and possibly some statistical methodological activities.
2. Implement customized statistical analyses using existing tools with and without modifications.
3. Provide statistical and programming support for methods and tool development activities.
4. Support PhD-level staff biostatistician and Sentinel investigators on functional specifications development, new methods and analytic tools development, and existing tools functionalities and outputs enhancement.
5. Support PhD-level staff biostatistician and Sentinel investigators on training on new statistical methods or tools to FDA personnel and Sentinel investigators and staff.
6. Support PhD-level staff biostatistician and Sentinel investigators on writing statistical summaries of results for discussion by FDA personnel and Sentinel investigators, interim and final deliverables, including reports and peer-reviewed publications.

Required Education, Experience and Skills
1. Applicants must have a Master’s degree in biostatistics, statistics, or a related quantitative field.
2. Applicants must have a solid training in statistical theory and methods.
3. Proficiency in SAS statistical software including SAS Macro, SAS/STAT, SAS/Graph. Knowledge of other programming languages such as R is a plus.
4. Strong computational skills and programming that enable data visualization is desired.
5. Prior experience with advanced pharmacoepidemiologic methods, such as propensity score-based approaches, is preferred.
6. Prior experience with sequential analytic methods is preferred.
7. Prior experience with large electronic healthcare databases (administrative claims data in particular) and multi-center studies is preferred.
8. Excellent written and oral communication skills.
9. Ability to work independently.

Working Conditions
Excellent working conditions with some flexible hours.

Compensation
Competitive salary and benefits. HPHCI sponsors work visa (H1B).

To Apply
Send a curriculum vitae and the names of three references to Mildred Portillo at Mildred_Portillo@harvardpilgrim.org.