

Partners HealthCare System, Inc.

Job Title: Senior Biostatistician

Date: December 2014

FLSA Status: Exempt

Department/Unit/Section: Quality, Safety, and Value

Reports to: Senior Project Manager, Analytics & Reporting

General Summary/ Department and Program

Partners Healthcare is an integrated health care system founded by Brigham and Women's Hospital and Massachusetts General Hospital that offers patients a continuum of coordinated and high-quality care. In addition to its two academic medical centers, Partners includes community and specialty hospitals, a managed care organization, a physician network, community health centers, home health and long-term care services. The Partners Quality, Safety, & Value (QSV) department is committed to leading and supporting initiatives for improving the quality and safety of care patients receive across the Partners HealthCare System. QSV seeks experienced, creative, motivated and committed professionals who excel at working effectively with all levels of staff throughout the organization.

General Summary/Overview Statement

The Senior Biostatistician will provide statistical oversight and expertise to guide high priority, system-wide quality measurement and reporting activities. The biostatistician will be responsible for developing all statistical considerations critical to the design, development, evaluation, and validation of both new and existing quality, safety, and value measures. He/she will design statistical plans to ensure accurate, valid, and reliable results. The statistician will play a key role in informing the development and validation of a new Partners-wide value measurement dashboard. Additionally, the statistician will work supervise the design of statistical methods and analysis plans for existing initiatives. This work will help to inform system-wide performance goals and will be used by executive leadership to set both internal and external priorities. This is a unique opportunity for a highly motivated and experienced statistician interested in the interface between data analytics, reporting, and clinical quality and safety. This work requires a comprehensive understanding of healthcare quality measurement, using a variety of both adjusted and unadjusted data (including, but not limited to: claims, financial, clinical, and patient-reported outcomes data). The senior biosatistician will require a high degree of professionalism to interact with all levels of staff, from executive leadership to front line staff thorough out the Partners Healthcare System. The Biostatistician will report directly to the Senior Project Manager for QSV Analytics and Reporting, and will have a close working relationship with the Partners Chief Quality and Safety Officer (CQSO).

Principal Duties and Responsibilities

- Support the QSV Analytics & Reporting team by providing comprehensive statistical expertise for development, evaluation, validation, and modification of new and existing measures.
- Develop comprehensive statistical analysis plans to ensure accuracy, reliability, precision, and validity of results.
- Work closely with QSV programmers/analysts to oversee execution of analysis plans and provide statistical guidance
- Provide expertise to inform data integrity and quality control process and methods (ex: database cleaning)
- Design new measures/modify analyses to evaluate additional variables (ex:cost, healthcare disparities, etc)
- Evaluate use of newly available data in addition to or as a replacement for existing data
- Determine feasibility of working with internal and externally available data for value measurement
- Lead efforts to integrate and analyze large datasets (including , but not limited to claims, financial, and clinical data)
- Assist with abstracts/manuscripts for both internal and external publications, as needed
- Prepare summaries and present statistical methods, considerations, and findings to senior leadership, as needed
- Provide learning opportunities for PHS staff through learning seminars on statistical methods/quality measurement
- Complete other special projects as needed

Qualifications

- The ideal candidate will possess PhD or ScD in Statistics, Biostatistics, or Applied Mathematics
- At least 5 years' experience working with healthcare data, including (but not limited to) claims, financial, & clinical data
- At least 5 years' experience designing and applying basic and advanced statistical techniques (for example: analyses of correlation, regression, variation, sensitivity, specificity, precision, sample size, stratification techniques, etc)
- Some (2+years) experience working with integration of multiple data sources from databases and data warehouses
- A basic understanding of quality measurement and quality improvement methods is favorable
- While programming is not required in this role, a basic knowledge of data manipulation involving Microsoft Access or other database applications is desired

- The candidate must be able to work independently, and exercise discretion, sound judgment and strict confidentiality.
- The candidate must be motivated and able to complete deliverables in a timely manner

Skills/Abilities/Competencies Required

- Professional demeanor; high level of diplomacy and discretion
- Good problem-solving and judgment skills
- Ability to set priorities, coordinate multiple tasks, meet deadlines, and work well under pressure
- Ability to carry out responsibilities accurately and independently, as well as work effectively within teams
- Strong communication (oral, written, interpersonal) and organizational skills
- Flexibility to handle multiple tasks, deadlines and ability to easily adapt to change
- Ability to work with diverse audiences

Working Conditions

- A workstation will be provided in the Partners Needham office (desk, computer, phone, etc)
- Work is performed in a fast-paced office environment.
- Must have one's own, reliable personal transportation to Needham, the Prudential Center, Boston and other locations in the Partners network. Mileage, parking and expenses are reimbursed by Partners HealthCare.
- Ability to work periodically shifted hours before 8am or after 5pm

Supervisory Responsibility

No direct supervisory responsibility

Fiscal Responsibility

No direct fiscal responsibility