CSDE Matching Support Submission for Population Health Initiative Tier 2 Pilot

Project title: Leveraging data to measure risk factors affecting post-acute care access and outcomes among patients within and outside of care networks

Study team:
- Rachel Prusynski, DPT, PhD, Assistant Professor, Division of Physical Therapy, Department of Rehabilitation Medicine, School of Medicine; rachelp1@uw.edu (Multi-PI)
- Tracy Mroz, PhD, OTR/L, Associate Professor, Division of Occupational Therapy, Department of Rehabilitation Medicine, School of Medicine; tmroz@uw.edu (Multi-PI)
- Thuan Ong, MD, Associate Professor, Division of Gerontology and Geriatric Medicine, Department of Medicine, School of Medicine; Medical Director, UW Post-Acute Care; thuano@uw.edu (Multi-PI)
- Hanh Pan, MHA, Director, UW Post-Acute Care; hmtran@uw.edu (Key Personnel)
- TBD- Clinical Lead, Social Work, UW Medicine (Key Personnel)
- TBD- Data Analyst, Analytics Team, UW Medicine
- TBD- CSDE/UWDC expert

Brief project overview:
The goal of this project is to establish proof-of-concept for integrating Medicare administrative data and UW Medicine electronic health records in order to capture a more comprehensive set of clinical, social, behavioral, environmental, and community factors that may influence access to post-acute care and patient outcomes. These data will be used to describe characteristics of UW Medicine patients discharged from acute care hospitals to skilled nursing facilities and home health agencies, the two most common post-acute care settings, and compare patients served by post-acute care network partners versus non-partners. This project will establish a foundation for evaluating the role of post-acute care networks in facilitating admissions to skilled nursing facilities and home health agencies and guiding future interventions to foster equitable access to post-acute care for historically underserved patient populations. See LOI for PHI proposal for more information.

Budget considerations:
- We are requesting ~$50,000 for the PHI Tier 2 grant over the 12-month project period to cover:
  - FTE for Multi-PIs Rachel Prusynski (15%), Tracy Mroz (10%), and Thuan Ong (2.5%) for $44,082
  - FTE for TBD Data Analyst to pull electronic health record data (5% for 2 months) for a total of $3,000; note the analyst will be responsible for pulling select aspects of UW Medicine medical records for target population (e.g., social work notes for dual-eligible patients discharging to skilled nursing facilities), but Rachel and Tracy will merge the Medicare and medical record data and conduct all analyses
  - Data re-use fee to CMS for administrative data for $2,000 (CMS PAC data in UWDC)
  - Hanh Pan will provide in-kind support as Director of UW Post-Acute Care
  - Budget to be adjusted if TBD Clinical Lead, Social Work involves FTE versus in-kind support
- We are requesting in-kind support from the CSDE for two purposes:
  - secure data hosting of merged Medicare administrative data (subset of current CMS PAC data stored with UWDC) and electronic medical record data (select excerpts from records of acute hospital stays for UW Medicine patients who are Medicare beneficiaries discharging to post-acute care after hospitalization)- we anticipate needing a new folder within the UWDC enclave environment given the need for security and limited access to these data
  - expert advice on best practices for data integration and management of this novel dataset