



Center for Home Care Policy and Research

January 2018 – Present

The Center for Home Care Policy and Research, established in 1993, conducts scientifically rigorous research to promote the delivery of high-quality, cost-effective care in the home and community. To date, the Center has been awarded ~\$51 million in federal and private grant and contract funding, evolving into a multi-functional scientific research and evaluation team informing VNSNY, local, national, & international health policy, science & evidence-based practice.

GROWTH

- Centers for Medicaid & Medicare Services (CMS) claims data library: \$127,000 acquisition, resource for future studies
- Marketing: significant expansion of Center's presence, role: Center & VNSNY websites, social media (e.g. Twitter, LinkedIn)
 - Center profiled in 20+ external & 10+ internal trade publications; 130+ social media posts w/ 25,000+ impressions
- Center Hire: Max Topaz, PhD, RN - dual appointment as Professor of Nursing with Columbia's School of Nursing
 - Nurse Informatician: natural language processing, data mining, big data, smart information systems
 - Clinical nursing experience (internal and emergency medicine); academic and professional leadership experience

PROPOSAL EFFORTS

- 32 grants submitted: 22 federal, \$14.13 million in total
 - 8 awarded (\$369,279) plus \$226,292 award from 2017 submission; 11 pending (potential value of \$5.1 million)
- 6 proposals under development (5 federal)

PEER-REVIEWED PUBLICATIONS & PRESENTATIONS

- 38 scientific manuscripts published or in-press, 10 submissions under review; 26 presentations (12 invited)

LANDMARK PUBLICATIONS

- **Top-Cited Article, '17-'18:** "Generated immediate impact & visibility, contributing significantly to the advancement of your field." Murtaugh, C., Peng, T., Bowles, K., Feldman, P., Siu, A., et. al. (2017). Reducing readmissions among heart failure patients discharged to home health care: Effectiveness of early and intensive nursing services and early physician follow-up. *Health Services Research*, 52(4):1445-1472.
- **1st publication in premier biomedical informatics methodology journal on home care** *Natural Language Processing methods* Topaz, M., Murga, L., Gaddis, K.M., McDonald, M.V., Bar-bachar, O., Goldberg, Y., Bowles, K.H. (2019: e-pub). Mining fall-related information in clinical notes: Comparison of rule-based and novel word embedding-based machine learning approaches. *Journal of Biomedical Informatics*.

EXTERNALLY FUNDED RESEARCH & EVALUATION STUDIES – 30 PROJECTS ACTIVE in 2018-2019

Home Care Interventions: 3 National Institutes of Health (NIH) studies launch

- *Center for Improving Palliative Care for Adults with Multiple Chronic Conditions, with Columbia University (CU)*
- *Multi-component home-based RN, OT, handyman randomized, controlled trial, with Johns Hopkins University*
- *Culturally-tailored stroke recovery intervention pilot, with Partners in Care & Columbia University*

Claims/Electronic Health Record (EHR) data: 2 NIH grants conduct CMS data analyses

- *Network analytics study of care trajectory patterns & adverse outcomes in a diverse sample with Alzheimer's*
- *Agent-based modeling & decision support tools to improve care access & outcomes for chronically ill older adults*

Doyle Grants: 4 pilots funded to establish respective evidence-bases for pipeline large-scale collaborative NIH proposals

- *Center staff to collaborate on the pilot studies, led by junior Investigators at Weill Cornell (3) and U. Missouri (1)*

Community Program Implementations & Evaluations: 8 launch; 1 in collaboration with Partners in Care

- *AdvantAge Initiative survey: Roosevelt Island; the Essex Crossing & Baruch Houses; SAGE*
- *Partners in Care trained health coaches' integration into naturally occurring retirement community (NORC) programs*

NEW PARTNERSHIPS

13 Federal proposals: first-time Federal collaborations with external Investigators

- *Just awarded (2 contracts - Stone, CU: Center for Improving Palliative Care for Adults w/ Multiple Chronic Conditions)*
- *10 submitted (Chang, New School; Pathak, Weill Cornell (WC); Arbaje, Johns Hopkins (JH); Stimpfel, New York University; Hanson, JH; Luth, WC; Topaz, CU; Sterling, WC; Chughtai, WC)*
- *1 under development (Cooley, Dana Farber)*

5 community organizations: Carter Burden Network, Grand St. Settlement, Stanley M. Issacs, NY Foundation for Eldercare, SAGE

2 Center-funded grants: Doyle awards to foster new collaborative relationships with WCMC junior investigators

1199, New York State & VNSNY Strategy, Development & Partners in Care: Workforce Investment Organization (WIO) initiatives - *NYS award to 1199; VNSNY & Partners in Care are key collaborators; Center to conduct 2 evaluations*

Prepared by Kathryn Bowles, PhD, RN, FAAN FACMI, VP of Research and Center Director