

BIOGRAPHICAL SKETCH

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NAME: Margaret V. McDonald

eRA COMMONS USER NAME (credential, e.g., agency login): Margaret_McDonald

POSITION TITLE: Associate Director, Center for Home Care Policy and Research, Visiting Nurse Service of New York

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
New York University Stern School of Business, New York, NY	B.S.	1988	Health Administration
Fordham University School of Social Work, New York, NY	M.S.W.	1994	Social Work Research

A. Personal Statement

As Associate Director of the Center for Home Care Policy & Research at the Visiting Nurse Service of New York, I am both directly involved in developing and conducting studies as well as overseeing grants and center administration. In the administrator role I oversee a team that prepares and submits National Institutes of Health grant proposals and with our Business Manager, I oversee the Center's budget and compliance activities. In the scientific role, I am a co-investigator on studies that range from small pilot studies to large, federally funded randomized controlled trials. The studies have focused on exploring the home health population, determining potential unmet needs, and developing risk prediction models; and evaluating the quality, comparative effectiveness and outcomes of home health care interventions. I have responsibility for developing workflows for collaborative studies, overseeing project staff, and achieving study milestones. I have extensive experience in helping investigative teams develop and implement research studies. Almost all of the studies involve high risk, complex patient populations who have multiple co-morbidities. Specifically, I have overseen large primary data collection studies that successfully recruited the targeted sample and provided valid, fidelity-compliant, quality data for analytic evaluation for several NIH/AHRQ funded projects: Center for Stroke Disparities Solutions Community Transitions Study (N=495); Hypertension Study (N=845); Catheter Study (N=152); IMPACT Study (N=826); Translating Research into Practice Study (N=1300); Care Transitions Study (N=496); and several large secondary data analysis studies: Infection control and Fall studies (N=112,788); PREVENT (N=76,299). Below I highlight products of successful collaboration with cross-disciplinary research on the care of older adults with chronic, complex, and advanced illness.

1. Bowles, K, **McDonald, M.V.**, Barron, Y., Kennedy, R., O'Connor, M, Mikkelsen, M.E. Surviving COVID-19 after hospital discharge: Symptom, functional, and Adverse outcomes of home health recipients. *Annals of Internal Medicine* (2020: e-published ahead of print).
2. **McDonald, M.V.**, Brickner, C., Russell, D. et al. Observation of Hand Hygiene Practices in Home Health Care. *Journal of the American Director's Association* (2020: e-published ahead of print).
3. Dowding, D, **McDonald, M.V.**, Shang, J. Implications of a U.S. study on infection prevention in home care (community) settings for the U.K. *British Journal of Community Nursing*. (2020: e-published ahead of print)
4. Feldman, P.H., **McDonald, M.V.**, Trachtenberg, M., Trifilio, M., Onorato, N., Sridharan, S., Silver, S., Eimicke, J., Teresi, J. (2020: e-published ahead of print). Reducing hypertension in a post-stroke black and

Hispanic homecare population: Results of a pragmatic randomized controlled trial. *American Journal of Hypertension* 2020; 33(4):362-370.

5. Russell, D., Dowding, D.W., **McDonald, M.V.**, Adams, V., Rosati, R.J., Larson, E.L., Shang, J. Factors for compliance with infection control practices in home healthcare: findings from a survey of nurses' knowledge and attitudes toward infection control. *American Journal of Infection Control* 2018; 46(11):1211-17
6. **McDonald, M.V.**, Feldman, P.H., Barrón-Vayá, Y., Peng, T.R., Sridharan, S., Pezzin, L.E. Outcomes of clinical decision support (CDS) and correlates of CDS use for home care patients with high medication regimen complexity: a randomized trial. *Journal of Evaluation of Clinical Practice* 2016; 22(1):10-19. PMID: PMC5474750

B. Positions and Honors

Positions and Employment

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| 1993-1995 | Research Coordinator/Data Manager, Memorial Sloan Kettering Cancer Center, Psychiatry Service, Neurology Department, New York, NY |
| 1995-1997 | Assistant Project Director, National Development & Research Institutes, Institute of Training and Research Services, New York, NY |
| 1997-1998 | Assistant Director, Community Cancer Care, Inc., Oncology Symptom Control Research, Indianapolis, IN |
| 1998-1999 | Project Manager, Visiting Nurse Service of New York, Center for Home Care Policy & Research, New York, NY |
| 1999-2004 | Institutional Review Board (IRB) Administrator, Visiting Nurse Service of New York, New York, NY |
| 2000-2010 | Senior Research Project Manager, Visiting Nurse Service of New York, Center for Home Care Policy & Research, New York, NY |
| 2009-present | Editorial Board, Home Healthcare Now |
| 2011-2017 | Associate Director, Research Studies, Visiting Nurse Service of New York, Center for Home Care Policy & Research, New York, NY |
| 2018-present | Associate Director, Visiting Nurse Service of New York, Center for Home Care Policy & Research, New York, NY |

C. Contributions to Science

Below I highlight three additional areas of scientific contribution.

1. Investigating the effectiveness of interventions to improve the quality and outcomes of home care.

I have been the project manager of several randomized, controlled intervention studies. In this role, I worked with investigators to develop and operationalize their interventions; specifically, I have lead the effort in hiring, training, and supervising intervention staff (including nurses, nurse practitioners, health educators and home health aide health coaches) and field interviewers; developing survey measures, recruitment, data collection, fidelity monitoring protocols, along with completing data management tasks and supporting dissemination activities. Findings from these studies informed intervention development.

- a. Feldman, P.H., **McDonald, M.V.**, Barrón, Y., Gerber, L.M., Peng, T.R. Home-based interventions for black patients with uncontrolled hypertension: a cluster randomized controlled trial. *Journal of Comparative Effectiveness Research* 2016; 5(2):155-68. PMID: PMC5543816
- b. Giuliante, M.M., Greenberg, S.A., **McDonald, M.V.**, Squires, A., Moore, R., Cortes, T.A. Geriatric Interdisciplinary Team Training 2.0: A collaborative team-based approach to delivering care. *Journal of Interprofessional Care* 2018; 32(5):629-33.
- c. Wilde, M. H., McMahan, J. M., **McDonald, M. V.**, Tang, W., Wang, W., Brasch, J., Fairbanks, E., Shah, S., Zhang, F., & Chen, D. Self-management intervention for long-term indwelling urinary catheter users: Randomized clinical trial. *Nursing Research* 2015; 64 (1): 24-34. PMID: PMC4268883
- d. Feldman, P.H., Murtaugh, C.M., Pezzin, L.E., **McDonald, M.V.**, Peng, T.R. Just-in-time evidence-based e-mail "reminders" in home health care: impact on patient outcomes. *Health Services Research* 2005; 40(3):865-885. PMID: PMC1361172

2. Identifying high risk populations. Using a variety of research methods - large dataset analysis, primary

data collection, qualitative interviews – this body of work sought to identify patients who are at higher risk for adverse events including the development of an infection, falls, and re-hospitalization. These studies provided information to help inform clinical care management.

- a. Dowding, D., Russell, D., Trifilio, M, **McDonald, M.V.**, Shang, J. Home care nurses' identification of patients at risk of infection and their risk mitigation strategies: A qualitative interview study. *International Journal of Nursing Studies*. (2020: e-published ahead of print)
 - b. Feldman, P.H., **McDonald, M.V.**, Eimicke, J., Teresi, J. Black/Hispanic disparities in a vulnerable post-stroke home care population. *Journal of Racial and Ethnic Health Disparities* 2019; 6(3):525-35. PMID: PMC6500466
 - c. Shang, J., Russell, D., Dowding, D., **McDonald, M.**, Murtaugh, C., Liu, J., Larson, E., Brickner, C. A predictive risk model for infection-related hospitalization among home healthcare patients. *Journal for Healthcare Quality* 2020; 43(3):136-47.
 - d. Topaz, M., Murga, L., Gaddis, K.M., **McDonald, M.V.**, Bar-Bachar, O., Goldberg, Y., Bowles, K. sMining fall-related information in clinical notes: comparison of rule-based and novel word embedding-based machine learning approaches. *Journal of Biomedical Informatics*.2019; doi: 10.1016/j.jbi.2019.103103.
 - e. Ryvicker, M., **McDonald, M.V.**, Trachtenberg, M., Peng, T.R., Sridharan, S., Feldman, P.H. Can the Care Transitions Measure predict re-hospitalization risk or home health nursing use of home healthcare patients? *Journal for Healthcare Quality* 2013; 35(5):32-40.
3. **Electronic health record systems: investigating the use of standardized data.** Maximizing the investigations in various studies, I took the lead role in designing sub-studies and preparing study manuscripts that utilized data from home care records to provide additional insights into study methods, subpopulations, and use of data for capturing interventions and outcomes supplementing work being done under study primary aims.
- a. **McDonald, M.V.**, Peng, T.R., Sridharan, S., Foust, J.B., Kogan, P., Pezzin, L.E., Feldman, P.H. Automating the medication regimen complexity index. *Journal of the American Medical Informatics Association* 2013; 20(3):499-505. PMID: PMC3628060
 - b. **McDonald, M.V.**, Pezzin, L.E., Peng, T.R., Feldman, P.H. Understanding the complexity of hypertensive African American home care patients: Challenges to Intervention. *Ethnicity & Disease* 2009; 19:148-153. PMID: PMC3521616
 - c. **McDonald, M.V.**, King, L.J., Moodie, M., Feldman, P.H. Exploring diabetic care deficiencies and adverse events in home healthcare. *Journal of Healthcare Quality* 2008; 30(6):5-12.
 - d. **McDonald, M.V.**, Pezzin, L.E., Feldman, P.H., Murtaugh, C.M., Peng, T.R. Can just-in-time, evidence-based “reminders” improve pain management among home health care nurses and their patients? *Journal of Pain and Symptom Management* 2005; 29:474-488.

Complete List of Published Work:

<https://www.ncbi.nlm.nih.gov/myncbi/1LsEr8jH-weAD/bibliography/public/>