Transitional Care Medical House Call: A Pilot Project

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Abstract
This quality improvement project implemented medical house call as a component of transitional care management (TCM) and measured patient outcomes such as unplanned 30-day readmission rates and correlated predictors of readmission. As a secondary outcome, the project tracked and analyzed point-of-care concerns. Medicare beneficiaries 65 years and older who were discharged from skilled nursing facilities to home were offered a home visit by a nurse practitioner (NP). Older adults benefited from TCM medical house calls by a NP within 14 days after discharge by significant polypharmacy reduction and managed high readmission risk.

Keywords
readmission reduction, transitional care management, medical house calls

This scholarly poster is available at ScholarWorks: https://scholarworks.boisestate.edu/gss_2018/46
**Rationale**

- Vulnerable, homebound older adults are highly susceptible to unplanned 30-day hospital readmissions.
- Costly for the health care system ($6.2B in ‘97 to $2.8T in ‘12).
- Transition of care programs complemented with home-based primary care delivery improve health care outcomes for this population.

**Purpose/Aims**

- Implement medical house calls as component of transitional care management (TCM).
- Measure patient outcomes.
- Correlate predictors of 30-day unplanned readmission.

**Methods**

- Convenience Sampling (N=145)
- Medicare beneficiaries >65 y.o. discharged from SNF to home.
- Home visit by provider with prescriptive authority, a Nurse Practitioner (NP).
- Tracked & analyzed point-of-care concerns:
  - Unplanned 30-day hospital readmission: 19.2%
  - Days to see patients: 8.5
  - Common LACE Index scores 11-15 (M = 12.6; SD = 2.9)
  - Prescriptions required: >50%
  - Number of comorbidities (co-existing disease conditions): 2
  - Days to see Primary Care Provider (PCP): >14 days
  - Polypharmacy* (see graph)

**Results**

- Polypharmacy*: statistically significant reduction from 17 to 11 ($z = -7.497, p < .001$)

**Clinical Relevance**

Older adults discharged from a higher level of care benefit from TCM through medical house calls by a NP within 14 days after discharge by significantly reducing polypharmacy and managing readmission risk.

*Polypharmacy numerical definition of five or more medications daily (Masnoon, et al, 2017)*