

Title: Descriptive Impact Analysis of the Independence at Home Community Outreach Team Pharmacist-Driven Medication Reviews

Objectives: 1. To describe the demographic and clinical characteristics of patients receiving a home-based medication review (HMR) conducted by a community outreach team pharmacist. 2. To describe the types of drug therapy problems (DTP) identified, clinical interventions recommended and implemented.

Methods: This retrospective study analyzed patient records, MedsCheck at Home documentation, and Pharmaceutical Opinion data of patients who received a HMR between January 1, 2016 to May 31, 2018. Continuous data were reported as mean (\pm SD), and categorical data reported as number and percentage. Results: A total of 171 unique patients received a HMR during the study period, of whom 95% were 65 years of age or older and 59% were female. Hypertension, psychiatric conditions (listed in DSM-5), and constipation were the most common chronic conditions, and 53% of the patients had a Charlson Comorbidity Score of 1 to 2, corresponding to a 1-year mortality risk of 26%. Patients used an average of 13.0 medications, and 76% were found to be using at least 1 potentially inappropriate medication as per Beer's Criteria. The average number of DTPs identified per patient was 4.7. The most common types of DTP categories identified were requires drug therapy (23%) and no indication (19%). On average, there were 6.2 recommendations per patient with an implementation rate of 74%.

Conclusions: Older patients referred to the community outreach team pharmacist used a high number of medications and had several DTPs identified. Offering home-based medication reviews was an effective method for recommending and implementing interventions to optimize medication therapy management and improve health outcomes.

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