# Impact of a pilot ambulatory care pharmacist in a family practice clinic

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### Background

Up to 60% of patients are non-adherent to their medication regimens.<sup>1</sup> Costs associated with medication non-adherence have been estimated at \$177 billion annually.<sup>2</sup> About 30% of people 65 years and older have been prescribed five or more medications, and approximately 50% of these have one or more unnecessary or high risk medications.<sup>3</sup> Poly-pharmacy is a component of medication management that pharmacists can provide evidence-based assistance to improve medication use in the primary care setting.

#### Purpose

- Evaluate the impact of a pharmacist working collaboratively with the primary care team in a clinic setting
- Assess pharmacist impact in a family practice clinic on patient outcomes using quality metrics, extension of providers, and improvement in patient and provider satisfaction

Prospective pilot study design Phase I: Implementation of pharmacist embedded in a pod of a family practice clinic, working closely

with providers, nurses, and office staff Perform various tasks as outlined in Table 1

#### Table 1. Pharmacist's Tasks

- Reviewing and identifying patients at high risk for medication adverse effects or medication related problems Medication reconciliations with
- multiple sources
- Extensive medication education Comprehensive medication management discussions

Assisting in a pneumonia vaccine outreach initiative

- Patient medication assistance
- Drug information questions

Fluid members of the patient care team providing additional tasks and assistance where requested

Phase II: Expansion of services Based on utilization of pharmacist in phase I, and implementation of team-based care reimbursement

Phase I:

Implementation of imbedded pharmacist

Phase II: Expansion of

services



Nothing to disclose: Taylor Sandvick, Jessica Pipinich, Thomas Richardson, Starla Blank, Amy Emmert



<sup>2</sup>Ernst FR and Grizzle AJ, "Drug-Related Morbidity and Mortality: Updating the Cost-of-Illness Model," 41 Journal of the American Pharmaceutical Assn 192. March/ April 2001. <sup>3</sup>Scott IA, Hilmer SN, Reeve E, et al. Reducing Inappropriate Polypharmacy: The Process of Deprescribing. JAMA Intern Med, 2015; 175(5):827-834. <sup>4</sup>Shock LP. Team-Based Care Offers a New World of Value. NCMJ,2016;77(4):273-274.

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Provider groups are now beginning to recognize and coordinated care that follows best practices, especially through the transitions of care continuum.<sup>4</sup> One specific model that promotes a team-based or integrated practice approach, CPC plus, will go into effect in 2017 at St.

The following are expansion opportunities for Phase II:

•Evaluating high risk medications in patients  $\geq$  65 years

Expansion of comprehensive medication management for patients from hospital or emergency room discharge