



COMPLETED GRANT SYNOPSIS

The Feasibility of Pharmacy and Home Healthcare Transitions of Care Services in an Emergency Department Population

By Cara Hoyt PharmD, Brianne Porter PharmD MS, Nicholas Newman PharmD, Lauren Southerland MD, Kimberly Payne PT, and Jennifer Rodis PharmD BCPS FAPhA Uptown Pharmacy & The Ohio State University | Columbus, OH

Objectives 1) Determine the feasibility of pharmacy-only or pharmacy and home health care transitions of care services for an emergency department (ED) population 2) Assess emergency department revisit rates and/or hospital admissions, prescribed discharge medication adherence, and identification and resolution of medication-related problems for patients engaged in pharmacy and/or home health care services 3) Describe patient satisfaction with the transition of care service received Methods 1. Before discharge from the OSU East Hospital ED, eligible patients receiving at least one new Design prescription (exception: scheduled II controlled substance) were approached by a research assistant to determine interest in participation. For those interested, consent was obtained, patient demographics were collected, and choice of service(s) was selected. 2. Following discharge, the patient received the service(s) selected: a. Pharmacy-only: i. With delivery: Discharge hospital faxed patient demographics, discharge summary, and discharge medication list to Uptown Pharmacy. The pharmacist contacted the patient's regular pharmacy for an updated medication list, performed medication reconciliation, filled the new prescriptions, and performed a prospective drug utilization review (DUR). Medication-related problems were identified and resolved with the patient via a direct phone call. Newly filled medications were delivered by courier (free of charge) to the patient within 1 day. Follow up phone calls were scheduled for days 3, 10 and 30 post-discharge to gather information related to stated objectives. ii. Without delivery: Same as above except new medications were not filled or delivered.

b. <u>Pharmacy and home health care services</u>: Discharge hospital faxed patient demographics, discharge summary, and discharge medication list to Uptown Pharmacy and Black Stone Home Healthcare. Uptown Pharmacy performed 'pharmacy-only' duties, including medication delivery when selected. Updated medication list after reconciliation was faxed to Black Stone Home Healthcare. Home healthcare contacted the patient's primary care physician and received follow-up orders for care. A home health care nurse visited the patient within 24-48 hours post-discharge. Once in the home, any new or updated information discovered by the nurse was communicated to Uptown Pharmacy via fax. A nurse from home health care was assigned to visit the patient as medically necessary over the course of the 30-day intervention.

3. Data was collected over the course of 7 months related to stated objectives.

Study	1. Feasibility of 1) pharmacy-only or 2) pharmacy + home health care transition of care services as
endpoints	described by challenges and lessons learned
	2. Composite of the following transitions of care outcomes:
	a. Emergency department revisit rates and/or hospital admissions
	b. Prescribed discharge medication adherence
	c. Identification and resolution of medication-related problems
	3. Patient satisfaction with transitions of care services received
	Results
Of 181 patients discharged from the study emergency departments, 46 were eligible for the study. Of those	
	ble, 3 opted to enroll in the study. Patients most commonly declined participation due to a desire to pick
-	prescriptions in person or desiring to work with their regular community pharmacist.
	enrolled patients opted to the pharmacy-only service (including delivery).
	hose enrolled, 3 were available for medication counseling on day of discharge, 1 was available for follow up
	lays 3 and 10, and 2 were lost to follow up after initial counseling and delivery.
	ly endpoint 1: For the enrolled patients, the community pharmacist's medication reconciliation identified
	resolved medication-related problems related to safety, indication, and cost which all directly impacted the
•	ents' abilities to adhere to the individual medications prescribed. However, this program was considered
	asible for this patient population as only a small portion of older adults were discharged home with a
	verable prescription. The majority of patients approached (93%) felt comfortable obtaining their own
-	scriptions.
	tal of 15 medications were prescribed, including 7 new medications and 8 refills. Medication reconciliation
was	completed for all 3 patients as well as pharmacist counseling on new medications via a telephone call. All
mec	lications were delivered successfully.
• <u>Stuc</u>	ly endpoint 2:
	 Due to low enrollment, unable to provide sufficient data to prove the hypothesis.
	• One patient was reached successfully at days 3 and 10. On both follow up calls, the patient reported no
	revisits to the ED or hospital admissions to the original hospital visited or any other hospitals. The
	patient also reported missing zero doses of the prescribed discharged medication up to day 10 post-
	discharge. There is no data to report on revisit rates, hospital admissions or prescribed medication
	adherence at 30-days post-discharge.
	• Pharmacists performed a DUR for all 3 enrolled patients. Five (5) medication-related problems were
	identified; 3 required interventions and were successfully resolved.
• <u>Stuc</u>	ly endpoint 3: Patient satisfaction was to be measured at the 30-day follow up call; therefore, there is no
data	to report on this endpoint.
• Limi	tations to the study include a large number of patients meeting exclusion criteria (prescription for schedule
	edication), a patient population with a reliable system for chronic medication adherence already in place,
	Ity to the patient's regular community pharmacy, and a study design dependent on patient interest in
	ices offered without preliminary data to determine the specific population's needs.
Conclusion	
Transitions of care services continue to be identified as a key player in preventing hospital re-admissions and ED revisits.	
Despite creating a comprehensive transitions of care service team covering hospital discharge, medication fills, and	
home health needs, and offering a menu of individualized services, including medication delivery at no cost to the	
patient, patients were unlikely to participate in these services. When pharmacists were invited to participate in the	
transitions of care process for those enrolled, contributions were made to increase likelihood of patient adherence to	
prescribed medications and potentially prevent future revisits or admissions. This project supports other literature in	
•	well-rounded transitions of care team and pharmacist as an important health care provider to have at the

identifying a well-rounded transitions of care team and pharmacist as an important health care provider to have at the table; however, low patient participation points to a of how patients may choose to engage in this process. Future studies are needed to 1) better clarify patient needs and patient understanding of their needs, and 2) identify how to best engage patients in the transitions of care process to close the gap.