Impact of a Pilot Ambulatory Care Pharmacist in a Family Practice Clinic

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Disclosure Statement

- Co-investigators:

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- Conflicts of Interest: None
- Project Sponsorship: None

Learning Objectives

- At the end of this presentation, participants should be able to:
 - 1. Recognize the most frequent pharmacist driven interventions completed in a family practice clinic.
 - 2. Identify areas for pharmacists to provide education for patients in the ambulatory care setting.

St. Peter's Hospital

- St. Peter's Hospital is a non-profit health care organization that serves a five county region in southwestern Montana
- St. Peter's Medical Group is the associated outpatient clinic
 - $\ensuremath{\overline{\mathbf{7}}}$ Healthcare services between the two clinic locations:

 - medicine
 - Cardiology

 - Obstetrics
- NephrologyNeurology
- → Orthopedics
- Urology
- **オ** Infectious Disease
- Oncology

- Background
- Up to 60% of patients are non-adherent to their medication regimens
 - オ Associated estimated cost \$177 billion annually
- 30% of patients 65 years and older are on ≥ 5 medications
 Over 50% have one or more unnecessary or high risk medication
- Poly-pharmacy is an area for pharmacists to provide evidenced based assistance to improve medication use in the primary care setting

National Council on Patient Information and Education, 2007.
 Ernst FR, J Am Pharm Assoc, 2001, 41(2).

St. Peter's Hospital (continued)

IV St. Peter's Hospital



- Medical GroupFamily Practice Medicine
 - 13 physicians7 midlevel practitioners

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Objectives of Pilot Study

Phase One

- Evaluate the impact of a pharmacist working with the primary care team
- Assessment of pharmacist's time utilization and interventions

Phase Two

More focused evaluation of pharmacist's role as part of the primary care team

Methods

- Prospective, observational study design
- Pharmacist embedded in a single pod of the family practice clinic
 Comprised of two physicians, one nurse practitioner, nursing staff, and front staff
- Pharmacist workflow was proposed with room for flexibility to meet the needs of the pod



Methods (continued)

Proposed Pharmacist Tasks – Phase One

 Identify patients at high risk for medication adverse effects
 Review patients with medication related problems
 Medication reconciliation
 Medication education
 Medication management

Assist in pneumonia vaccine outreach Patient medication assistance Drug information questions Additional tasks and assistance where requested

Phase One

1. Safety and Quality

- Interventions driven by measures set forth by:
 National Committee for Quality Assurance (NCQA)
 - Centers for Medicare and Medicaid Services (CMS)
- 2. Provider's Perspective
 - Acceptance as part of the primary care team
- 3. Pharmacist Specific
 - Time utilization



In-depth evaluation of pharmacist's role as part of the Comprehensive Primary Care Plus (CPC+) initiative



Metrics Assessed

- 1. Safety and Quality
 - Interventions driven by NCQA's Medication Management Metrics
 - Total of 246 medication reconciliations complete

Medication Education	•	Occurred during > 80% of med recs 20% of pharmacist time was spent doing medication education alone
Updated Medication List	:	100% of time med rec complete Average of two changes per med rec



Collaborative Practice Agreements (CPA)



Phase One Results



As of January 1, 2017, St. Peter's Medical Group is participating in America's largest multi-payer initiative to improve primary care

Comprehensive Primary Care Plus (CPC+)

- - ↗ 2,891 primary care practices participating
- Goal to strengthen primary care and transform delivery of care
 - オ Collaborative care teams

3. Centers for Medicare and Medicaid Services, 2017.



New workflow proposed based on data from Phase One, in addition to quality metrics set by payers of the CPC+ initiative

Proposed Pharmacist Tasks – Phase Two				
 Care team drug information questions Patient medication education Patient medication assistance Underutilization reviews Additional tasks and assistance where requested 				

Phase Two Results

- Pharmacists included as part of the care team for the CPC+ initiative
 - Collaborative Practice Agreements signed by providers of St. Peter's Medication Group
 - Titration of medications related to chronic disease states
 - Diabetes
 - オ Hypertension
 - Asthma
 - 7 COPD
 - Anticoagulation
 - Smoking cessation

Conclusions

- Majority of pharmacist time spent in Phase One was related to medication reconciliations and medication education
 - Observations from Phase One used to delineate subset that would benefit most from medication reconciliation
- Most frequent pharmacist interventions in Phase One related to chronic disease states
 - Used this information to propose Collaborative Practice Agreements for these top chronic disease states
- Pharmacists play a vital role as part of the primary care team

Questions?

References

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- National Council on Patient Information and Education. Enhancing prescription medicine adherence: a national action plan (2007). Available from: http://www.talkaboutrx.org/documents/enhancing_prescription_medicine_a dherence.pdf. Accessed: July 24, 2016.
- Ernst FR, Grizzle AJ. Drug-Related Morbidity and Mortality: Updating the Cost-of-Illness Model, Journal of the American Pharmaceutical Association 2001;41(2):192-199.
- Centers for Medicare and Medicaid Services. Comprehensive Primary Care Plus (2017). Available from: https://innovation.cms.gov/initiatives/Comprehensive-Primary-Care-Plus. Accessed: March 25, 2017.
- CPC Practice Spotlights. Comprehensive Primary Care (2015). Available from: https://innovation.cms.gov/Files/x/cpcipsl1.pdf. Accessed: July 26, 2016.
- Chisholm-Burns, Kim Lee J, Spivey, Slack M, Herrier, et al. US pharmacists' effect as team members on patient care: systematic review and metaanalyses. Medical Care 2010; 48(10): 923-933.

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