Clinical pharmacists provide significant impact in improving patient care through pharmacist interventions. Pharmacists interventions (PIs) can be defined as "any action taken by a pharmacist that directly results in a change of patient management or therapy" and can include:

- Adverse event screening
- Drug-drug interactions
- Adherence/administration issues

PIs can lead to cost savings to both patients and health systems, including preventing need for additional services such as:

- Primary care provider appointments
- Specialist appointments
- Emergency Department visits
- Hospital admissions/readmission

Accurate documentation of PIs and cost savings can provide data to highlight the importance of the role of a clinical pharmacist in a home infusion setting. This home infusion organization currently lacks a systemic method of documenting and reporting the interventions of the clinical pharmacists.

**BACKGROUND**

- The aim of this quality assurance study is to create a standard assessment tool to use for all pharmacist interventions within the organization and to assess the clinical impact and potential cost savings of the interventions.

**OBJECTIVES**

- **Primary Objective:** Evaluate clinical impact of home infusion pharmacist interventions on patient outcomes.
- **Secondary Objective:** Evaluate the potential cost avoidance resulting from the pharmacist interventions.

**METHODS**

- **Primary Objective:**
  - Evaluate clinical impact of home infusion pharmacist quality assurance study.
  - 14 home infusion pharmacists document each PI they make while performing routine pharmacist assessments that are completed upon each fill of medication.
  - The PIs will be categorized based on type of intervention, including:
    - Dose change recommendations
    - Side effect management
    - Addition of pharmacotherapy
    - Adherence tool provided
    - Addition of non-pharmacotherapy
    - Other
    - Discontinuation of drug
    - No intervention
  - The PIs will be quantified using Hatoum Clinical Impact Scale:

  ![Hatoum Clinical Impact Scale](image)

- **Secondary Objective:**
  - Pharmacists document if PI prevents the need for a higher form of health care.
  - PIs will be assessed by counting the number of PIs completed by pharmacist team, pharmacy department, intervention type, and level of impact.
  - Data normalized for pharmacy team based on patient load and number of pharmacists on team.
  - Cost savings will be estimated based on the average cost for that level of care in the state of Minnesota and totaled per pharmacists team and by whole pharmacy on a periodic basis.
  - Average savings totaled for pharmacy team and department will be reported.

**REFERENCES**


Disclosures: I have no actual or potential conflict of interest in relation to this project.

**NEXT STEPS**

- **Integrate**
  - Provide education tool to home infusion pharmacists on how to appropriately complete additional document components.
  - Perform one-week trial phase to assure pharmacists are correctly documenting and using assessment questions for pharmacist assessments in home infusion pharmacy.

- **Provide**
  - Collect and analyze data after 3 months of documenting pharmacist interventions.

- **Collect**
  - Assess clinical impact of home infusion pharmacist interventions on patient outcomes and cost avoidances.