Title: Measuring the impact and feasibility of trigger tools across a health-system

Background: Trigger tools are a practical method for identifying adverse drug events as they are less resource intensive, sensitive and specific, and provide real-time identification of potential adverse drug events; however, the initial set up can be labor intensive.
Objective: The aim of this study was to measure the feasibility and impact of implementing five trigger tools across a six hospital healthcare system.
Methods: A weekly trigger tool report was generated based on the five trigger tools that were implemented with the following criteria:

- Administration of naloxone
- Administration of flumazenil
- Hyperglycemia secondary to receiving steroids
- Hypoglycemia secondary to receiving insulin
- Hypoglycemia secondary to receiving sulfonylureas

A reviewer examined individual patient records to perform a modified chart review within the electronic health record to determine whether an adverse drug event occurred or not.
Results: Preliminary data will be shared to include the following metrics:

- Average time spent per chart review per trigger tool report
- Positive predictive value per trigger tool report
- Total number of potential adverse drug events per trigger tool report

Conclusions: Based on preliminary data, trigger tool reports improved event detection across a health-system and required limited resources for implementing and sustaining results.