

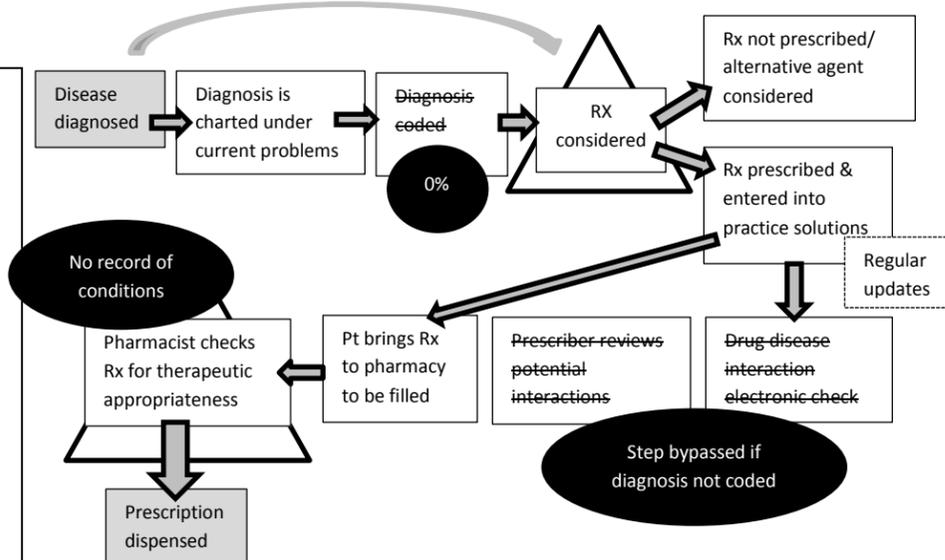
Preventing Clinically Significant Drug/Disease Interactions in Primary Care

The Problem and Current Situation

Background

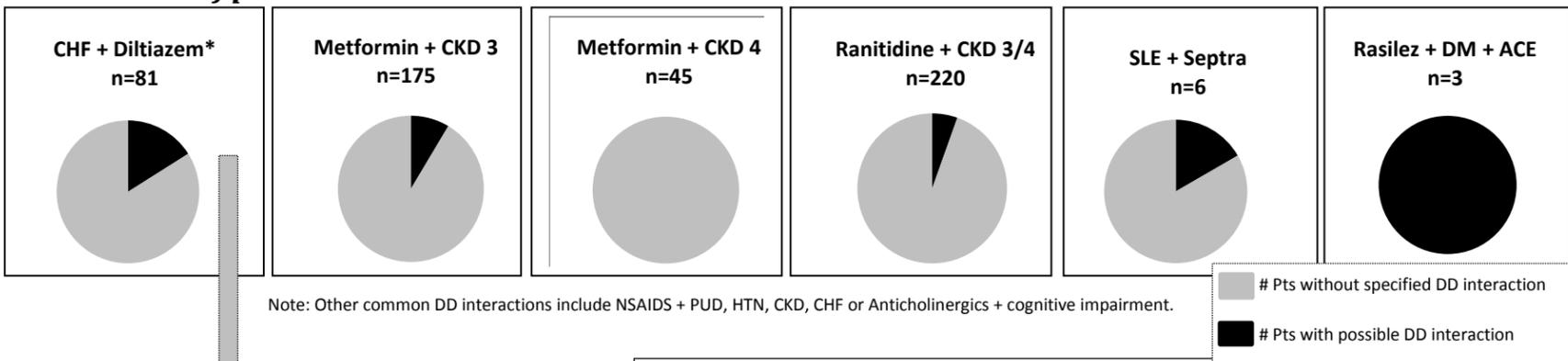
Patients expect that drug-disease interactions (DDI) are considered before a new medication is prescribed and the clinical significance is considered in order to prevent possible adverse drug events. The following steps allow opportunity for DDI identification before the drug reaches the patient.

1. Rx is prescribed by physician
 - a. Cognitive check
 - b. Electronic check
2. Rx is filled at the pharmacy:
 - a. Cognitive check
 - b. Electronic check



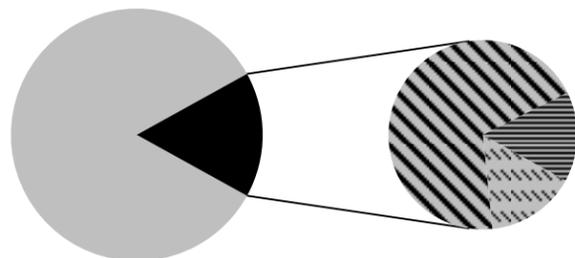
Ultimate Goal: To reduce the risk of possible drug disease interactions.

Breakdown of problem



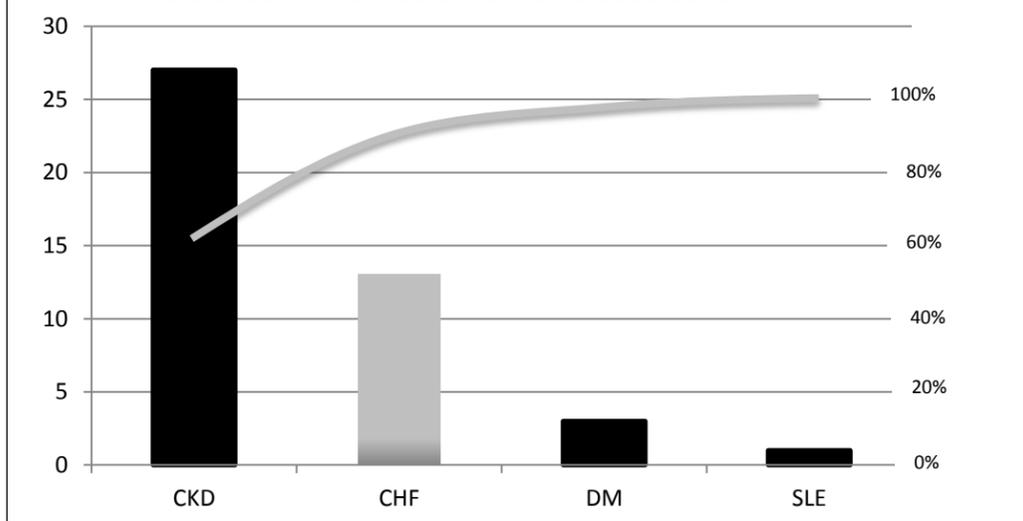
Note: Other common DD interactions include NSAIDs + PUD, HTN, CKD, CHF or Anticholinergics + cognitive impairment.

- CHF
- Deceased (n=2)
- Normal LVEF (>40%) (n=9)
- Co-morbid A Fib and COPD, LVEF unknown (n=2)

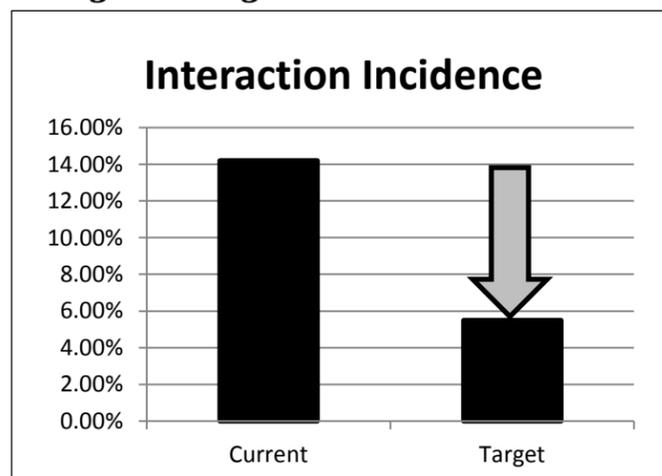


*CHF + Diltiazem combination seen in 13 patients. All patients with preserved LVEF (n=9) or co-morbid conditions warranting treatment

Number of Interactions identified



Target Setting

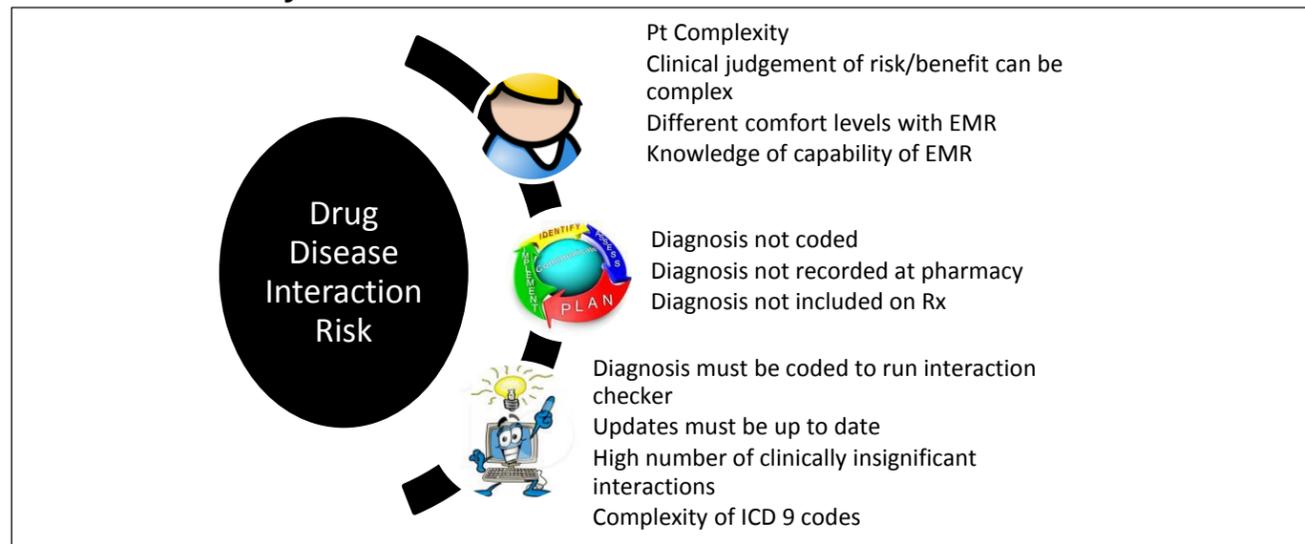


Target:

What? Reduce the frequency of possible drug-disease interactions by 61% (ARR 9%) targeting CKD/Drug interactions.

When? By July 2012

Root Cause Analysis



Proposed Situation:

Initiate coding standards for CKD 3, 4 and 5 that reflect the Snowmed coding system for CKD.

Implementation Plan

1. Presented A3 to IT/ EMR Committee Jan 15/13
2. Trial done with one doctor to further define potential benefit and risks (time/insignificant interactions).
3. Data collected at 6 months and to be collected at 9 and 12 months post implementation
4. Consider countermeasures: physician satisfaction, physician confidence, billing

Results/ Next Steps:

Preliminary data suggests no significant reduction in potential drug disease interactions. Next step to work with community pharmacists to optimize 2nd check and to provide an education event for prescribers re significant drug disease interactions and management strategies in order to improve confidence in managing these alerts.