



Efficacy of Pharmacy-based Medication Reconciliations at Olympia Medical Center: A Retrospective Cohort Study

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Background

- Senate Bill No. 1254
- Pharmacy Medication Reconciliations and Olympia Medical Center (OMC)
- Retrospective Cohort Study
- Medication Reconciliation Committee



Objectives

Primary Objectives	Secondary Objectives
<ul style="list-style-type: none"><i>To assess the impact of pharmacy-led medication reconciliations</i>	<ol style="list-style-type: none">1. Identify common medication discrepancies documented by non-pharmacy staff members2. Determine how to innovate health systems for quality improvement and accessibility of electronic health records3. Further establish high-risk criteria protocols based on Senate Bill No. 1254 and patient populations



Outcomes

Primary Outcomes	Secondary Outcomes
<ul style="list-style-type: none"><i>Number of discrepancies per patient medication between triage notes by non-pharmacy personnel and pharmacy through medication reconciliations</i>	<ol style="list-style-type: none">Amount of time to complete pharmacy-led medication reconciliationPercentage of patients with at least one discrepancy on the prior-to-admission list prior to pharmacy medication reconciliation



Methodology

- August 6, 2018 to August 29, 2018
- Inclusion Criteria
 - 72-hour time frame AND
 - Meet OMC "high-risk" criteria
- Exclusion Criteria
 - Admitted within 30 days
 - Transfer of Care is from Skilled Nursing Facility
- Pharmacist Verification



Results/Analysis

- N = 48, with 4 meeting exclusion criteria

Table 1. General Demographics of Medication Reconciliations performed for Admitted Patients

Average of medications per patient	Average of discrepancies per patient	Percentage of patients with at least one discrepancy on the PTA list	Average time to complete medication reconciliation (minutes)
10.2 (Range: 0-30)	11.36 (Range: 0-40)	89% (43/48)	32.7 (Range: 5-90)

Table 2. Stratification of Medication Discrepancies

	Omitted Medications	Completed/Discontinued Therapies	Incorrect doses	Duplicate entries
Percent of patients with at least one discrepancy performed by nurses	70% 34/48	50% 24/48	31.3% 15/48	29% 14/48
Average number of discrepancies (Nurses)	3.73 (Range: 0-30)	2.84 (Range: 0-22)	0.653 (Range: 0-4)	0.93 (Range: 0-13)
Percent of patients with at least one discrepancy performed by pharmacy interns	2.1% 1/48	4.1% 2/48	8.3% 4/48	2.1% 1/48



Conclusion/Limitations

- Pharmacy personnel have the medication knowledge to prevent key medication errors
- Expansion of pharmacy-based medication reconciliations
- Need for additional retrospective cohort studies in larger patient populations and or academic medical centers



Thank you!

- For Questions, please direct them to Tony Vo, tonyvo@usc.edu