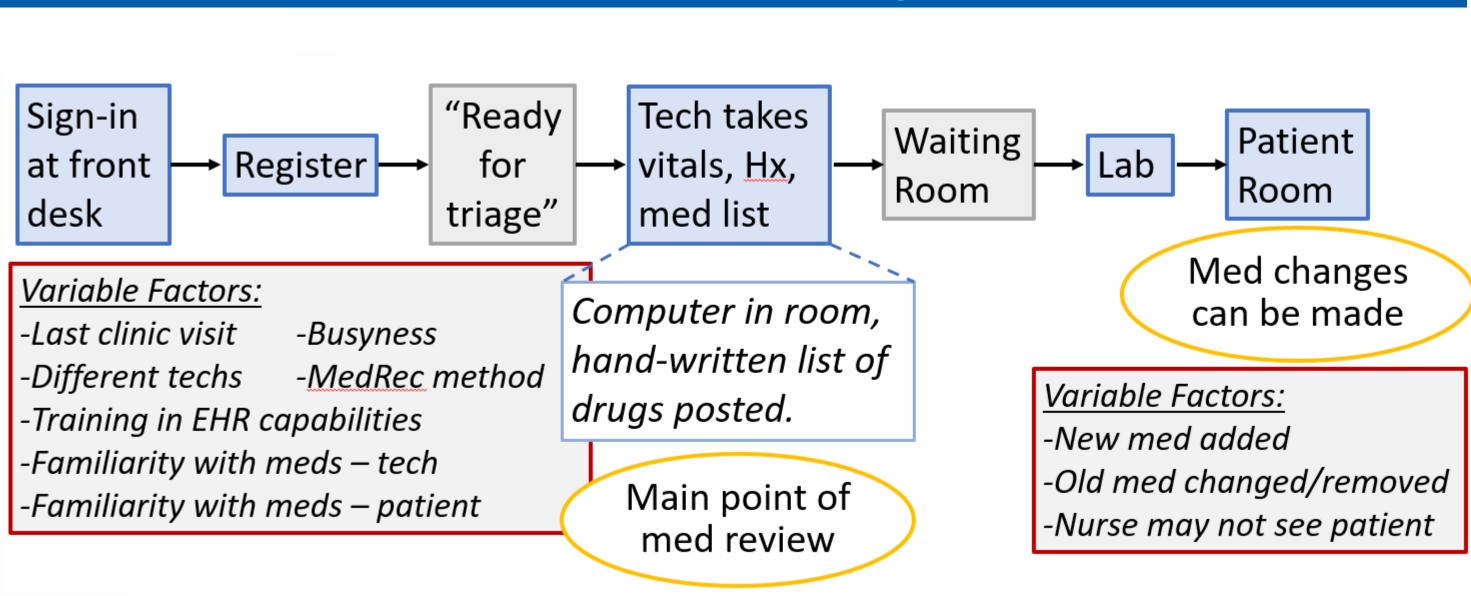


Purpose

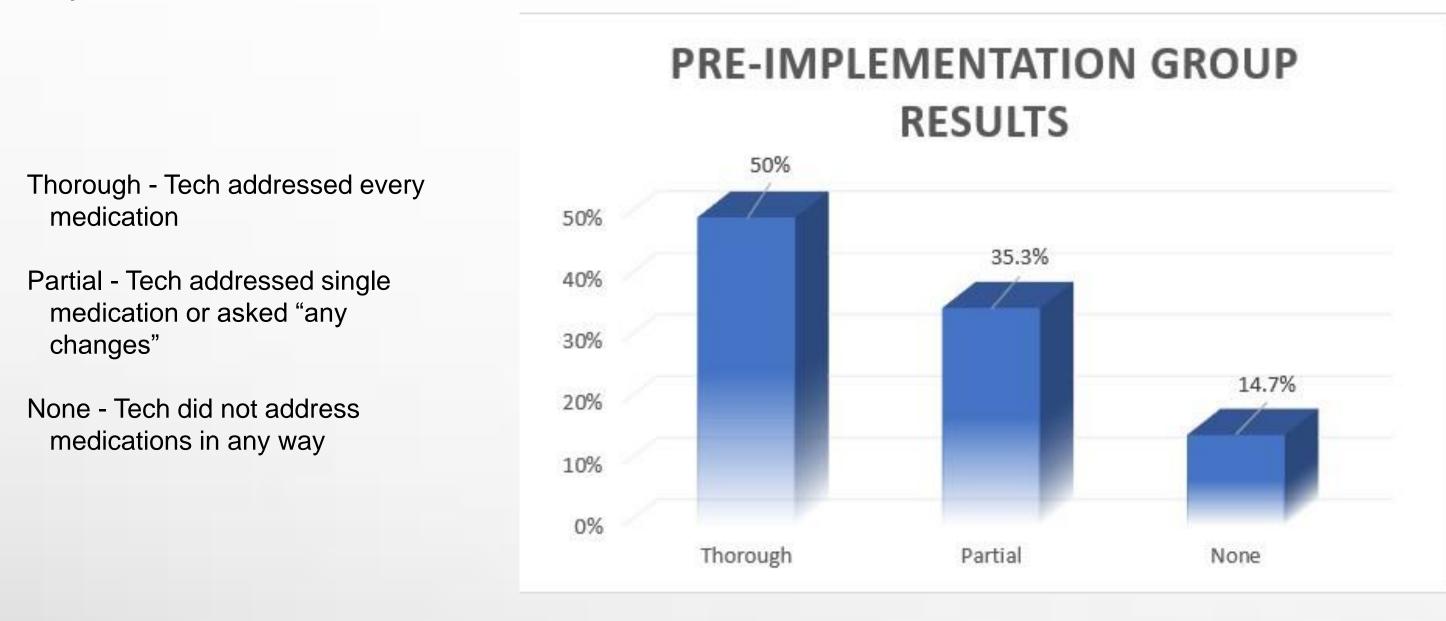
Utilizing the PDSA cycle, the purpose of this project was to identify an area of improvement and implement a change to positively affect accuracy and adherence to the practice of medication reconciliation at the University of Kentucky Markey Cancer Center, Multidisciplinary Clinic (MCC MDC).

Current Knowledge



Identify the Problem

The EMR list of current medications is often inaccurate. Our data showed that MedRec was not thoroughly performed during all triage encounters. This is potentially detrimental because the EMR cannot reliably check for potential drug interactions, correlate medication regimen with patient outcomes, and it cannot promote participation in experimental treatments.



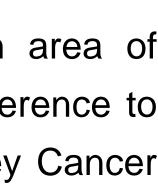
SMART Goal

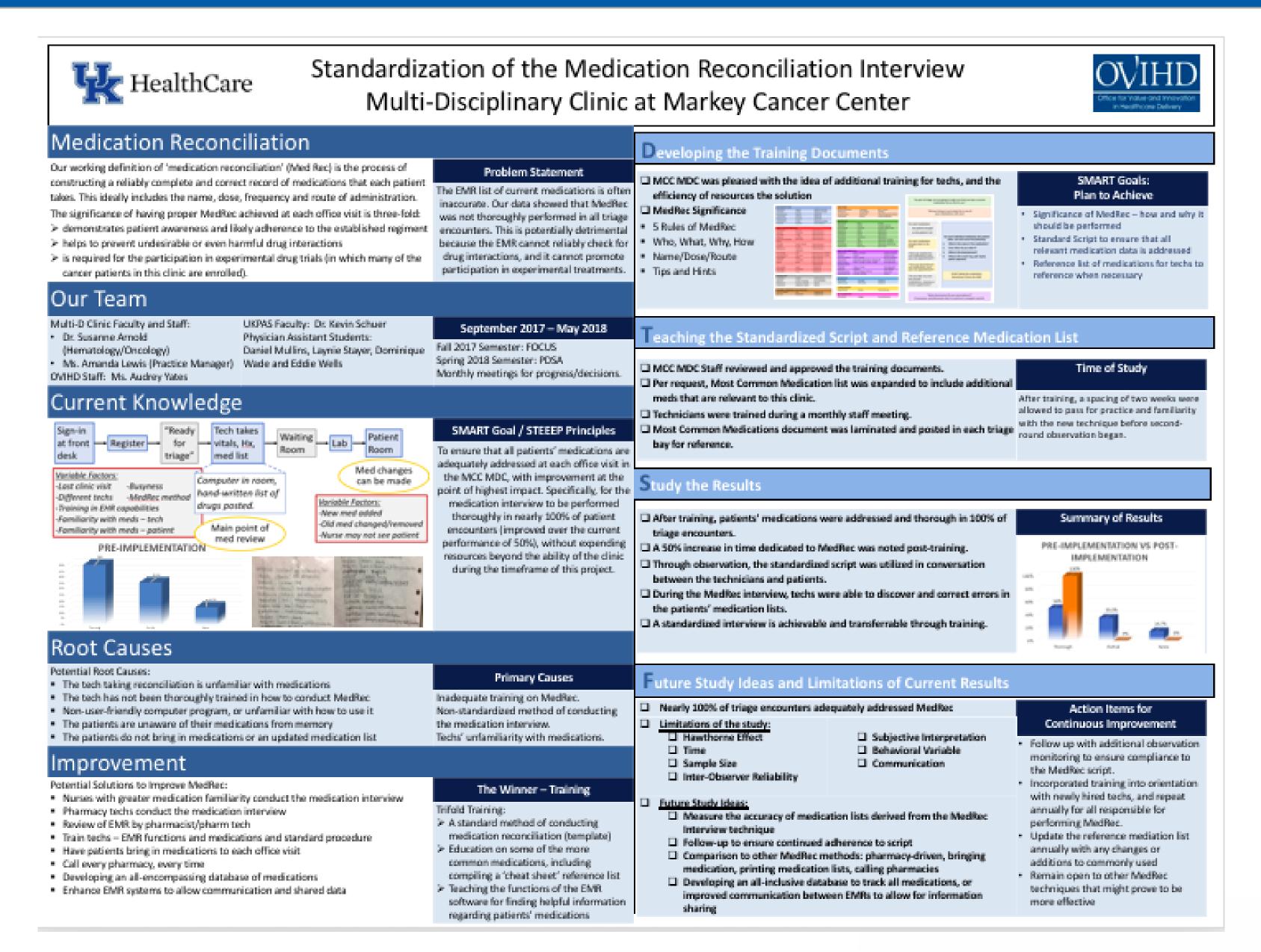
- To ensure that all patients' medications are adequately addressed at each office visit in the MCC MDC, with improvement at the point of highest impact.
- Specifically, for the medication interview to be performed thoroughly in nearly 100% of patient encounters (improved over the current performance of 50%).
- We wanted to do this without expending resources beyond the ability of the clinic during the timeframe of this project.

Standardization of the Medication Reconciliation Interview Authors: <u>Dominique Wade</u>, Laynie Stayer, Eddie Wells, Daniel Mullins, Kevin Schuer DrPH, PA-C. College of Health Sciences Physician Assistant Studies,

UK HealthCare, Lexington, KY

seeblue.





Root Cause Analysis

- Inadequate training on conducting MedRec
- Unfamiliarity with medications by MedRec interviewer
- Non-user-friendly EMR program, or unfamiliar with how to use it
- Patients are unable to recall their medications
- Patients do not bring medications or an updated medication list

Select the Improvement: Standardized Training for Techs

Trifold Medication Reconciliation Training

- 1. Importance and Relevance of MedRec
- 2. Standardized Script for MedRec Interview
- 3. Reference list of most common medications

"Did you brin your	tion list on file for you." ng an up-to-date list or any of nedications with you?	GASTROINTESTINAL Famotidine Ranitidine Esomeprazole Omeprazole Pantoprazole Ondansetron Docusate	Pepcid Zantac Nexium Prilosec Protonix Zofran Senokot
 For each medication the patient brought on the patient's list For each medication already listed in the EMR: "Have you started any new medications since your last appointment?" "Have you discontinued any medications since your last appointment?" 	 For each individual medication the patient takes, ask and record the following: 1. What is the name of the medication? 2. How often do you take it? 3. What is the dose/amount? 4. What is the route? (e.g. pill, liquid, patch, injection) 	HEART & BLOOD PRES Amlodipine Atenolol Carvedilol Diltiazem Hydrochlorothiazide (HCTZ) Lisinopril Losartan Metoprolol Furosemide Lisinopril/HCTZ Clopidogrel Warfarin Aspirin Atorvastatin Pravastatin Simvistatin	SURE Norvasc Tenormin Coreg Cardizem Microzide Zestril, Prinivil Cozaar Toprol XL, Lopressor Lasix Zestoretic Plavix Coumadin Bayer Lipitor Pravachol Zocor
"Do you take any over- the-counter medications, vitamins or herbal supplements?"	If NOT taking the medication, discontinue it from the EMR.	RESPIRATORY Loratadine Albuterol Fluticasone Prednisone VITAMINS / MINERAL	Claritin ProAir, Proventil Flonase, Cutivate Deltasone, Rayos
	acies fill your prescriptions?"	Ferrous Sulfate Klor-Con	Iron Potassium

If necessary, call pharmacies later to construct a complete med list.

100% 80% 60% 30/0 40% 20% 0% Thorough

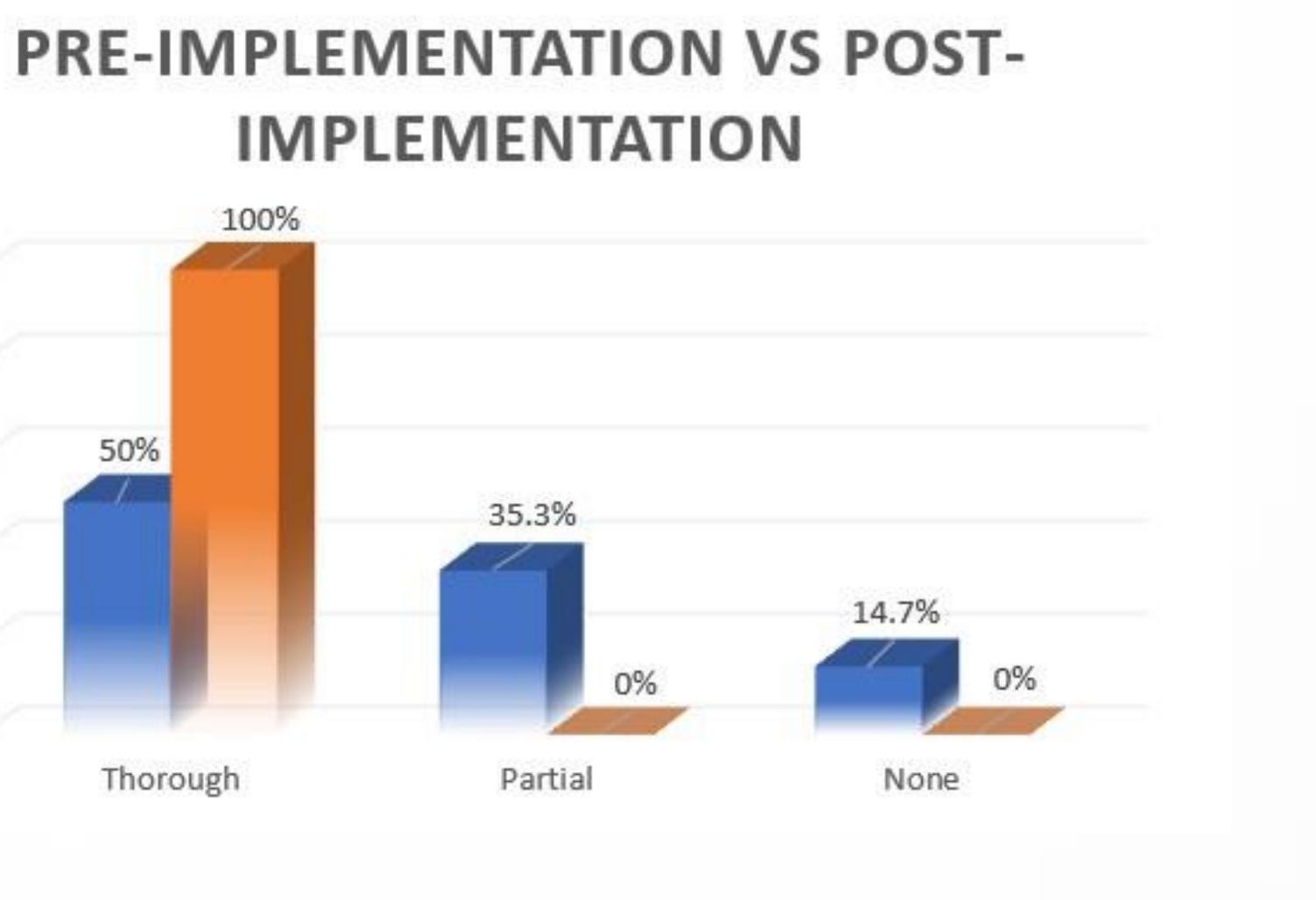
This project aimed to improve the process of medication reconciliation in order to prevent prescribing errors or adverse effects that stem from an inaccurate medication list. The involved clinic was found to have inconsistency in performing medication reconciliation – both in addressing medications with the patient and how medication review was conducted. Implementing a standardized training regimen with a script and reference list of common medications resulted in more consistent medication reconciliation process in the clinic, with medications being addressed for every patient. Those responsible for performing MedRec will benefit from this training material, with increased adherence to the protocol so that each patient is asked about medications. This enhancement will provide a more thorough medication review. It can serve as a starting ground for future studies to compare this standard interview to other methods of collecting patient medication information, and to study the accuracy of the resulting list.

	ENDOCRINE				
GERD/H2 blocker	EE/Norethindrone	*Multiple*	Birth (Birth Control	
GERD/H2 blocker	Metformin	Glucophage	Diabet	Diabetes	
GERD/PPI	Levothyroxine	Synthroid	Thyroi	Thyroid (hypothyroidism)	
GERD/PPI	Tamsulosin	Flomax	Urinar	Urinary Retention	
GERD/PPI					
Nausea/Vomiting	NEUROLOGY				
Stool softener	Alprazolam	Xanax	Anxiet	Anxiety	
	Diazepam	Valium	Anxiet	Anxiety, Seizures	
	Chlorazepate	Tranxene	Anxiet	Anxiety, Sleep Issues	
Blood Pressure	Bupropion	Zyban	Depre	Depression	
Blood Pressure	Citalopram	Celexa	Depre	Depression	
Blood Pressure	Fluoxetine	Prozac	Depre	Depression	
Blood Pressure	Trazodone	Trazodone	Depre	Depression	
Blood Pressure	Paroxetine	Paxil	Depre	Depression, Anxiety	
	Sertraline	Zoloft	Depre	ssion, Anxiety	
Blood Pressure	Venlafaxine	Effexor	Depre	Depression, Nerve Pain	
Blood Pressure	Gabapentin	Neurontin	Nerve	Nerve Pain	
Blood Pressure					
	PAIN & INFLAMMA	ATION			
Blood pressure, edema	Meloxicam	Mobic, Vivlodex		Arthritis (NSAID)	
Blood pressure, edema	Sulindac	Clinoril		Arthritis, Pain	
Blood Thinner	Cyclobenzaprine	Amrix, Fexmid	Muscle relaxant		
Blood Thinner	Oxycodone			Pain (Narcotic)	
Blood Thinner,	Hydrocodone/	Norco, Vicodin, Lorcet, Lortab Pain (Narcotic)		Pain (Narcotic)	
inflammation	Acetaminophen				
Cholesterol	Tramadol	Ultram, Conzip		Pain (Narcotic)	
Cholesterol	Celecoxib	Celebrex		Pain (NSAID)	
Cholesterol	Acetaminophen	Tylenol, Mapap, Ofirmev		Pain, Fever	
	Dexamethasone	Ozurdex, DexPak		Steroid	
Antihistamine	ANTIBIOTICS				
Bronchodilator	Amoxicillin	Moxatag	Antibi	Antibiotic	
Steroid	Azithromycin	Zithromax	Antibi	Antibiotic	
Steroid					
	CHEMOTHERAPY				
	Capecitabine	Xeloda	Chem	otherapy	
Supplement					
Supplement	DRY MEMBRANES				
	Pilocarpine	Salagen	Dry M	embranes	

- Furthering our study to measure accuracy of medication list
- Comparisons to other MedRec methods:
- Follow-up to ensure continued adherence to script
- Developing KASPER-like system to track all medications



Study the Results



Discussion

Future Study Ideas