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Researching the Impact of Medication Reconciliation Technicians (MRTs) in the ED

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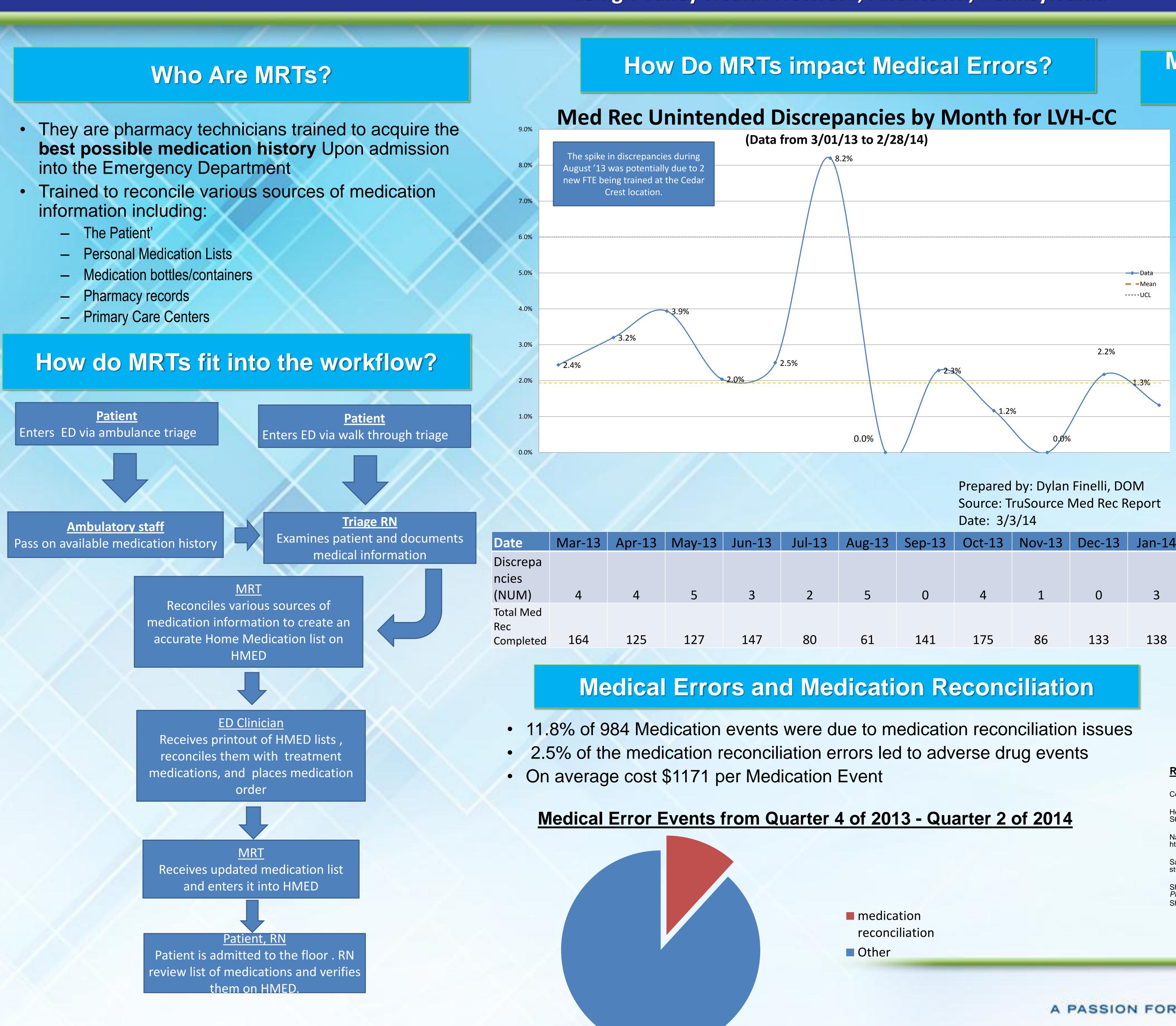
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Researching the Impact of Medication Reconciliation Technicians (MRTs) in the ED



Jon Carlos González, Dr. Leroy Kromis

Lehigh Valley Health Network, Allentown, Pennsylvania

ments

Date	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	
Discrepa													
ncies													
(NUM)	4	4	5	3	2	5	0	4	1	0	3	2	
Total Med													Train
Rec	4 6 4	405	407	4 4 7	00	64		475	0.0	400	400	4 5 0	Crest
Completed	164	125	127	147	80	61	141	175	86	133	138	152	

MRTS Decrease the Average Length of Stay (ALOS)

MRT MSDRG	INP MRT Volume	ALOS	Network Volume	ALOS	ALOS Savings
292 heart failure & shock w cc	73	4.47	940	4.50	-0.03
378 g.i. hemorrhage w cc	71	4.25	605	4.26	-0.01
392 esophagitis, gastroent & misc digest disorders w/o mcc	71	3.48	1,568	3.50	-0.02
871 septicemia or severe sepsis w/o mv 96+ hours w mcc	57	6.05	1,076	6.20	-0.15
191 chronic obstructive pulmonary disease w cc	54	3.99	511	4.06	-0.07
603 cellulitis w/o mcc	52	3.27	891	3.57	-0.30
683 renal failure w cc	47	3.73	615	4.28	-0.55
194 simple pneumonia & pleurisy w cc	47	4.22	596	4.26	-0.04
312 syncope & collapse	38	2.73	466	2.88	-0.15
690 kidney & urinary tract infections w/o mcc	36	3.59	585	3.90	-0.31
291 heart failure & shock w mcc	35	6.03	454	6.68	-0.65
872 septicemia or severe sepsis w/o mv 96+ hours w/o mcc	34	3.99	610	4.57	-0.58
193 simple pneumonia & pleurisy w mcc	32	5.07	332	5.50	-0.43
065 intracranial hemorrhage or cerebral infarction w cc	31	4.13	428	4.25	-0.12
948 signs & symptoms w/o mcc	28	3.37	274	3.80	-0.42
190 chronic obstructive pulmonary disease w mcc	28	3.90	297	4.20	-0.30
176 pulmonary embolism w/o mcc	26	3.51	310	3.66	-0.15
641 misc disorder of nutrition, metabolism, and fluids & electrolytes /wo mcc	24	3.20	393	3.45	-0.25
309 cardiac arrhythmia & conduction disorders w cc	22	3.12	448	3.19	-0.07
202 bronchitis & asthma w cc/mcc	21	3.85	394	3.93	-0.08
Total	827		11,793		

- patients

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• Time saved by MRTs ranged from 0.01-0.65 days MRTs save an average of 0.23 days/ Patient = 5 hours/Patient • Savings of \$36,727 When applied to all 827 MRT treated

Outlook for the Future

15 more MRTs to treat all ED patients for Cedar st and Muhlenberg Campuses

Decrease the rate of medical errors in order to provide better quality patient care.

Reduce cost of patient care by decreasing the ALOS, and reducing medication error events.

Educate patients on the importance of knowing their own medication list

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