Supplementary Online Content
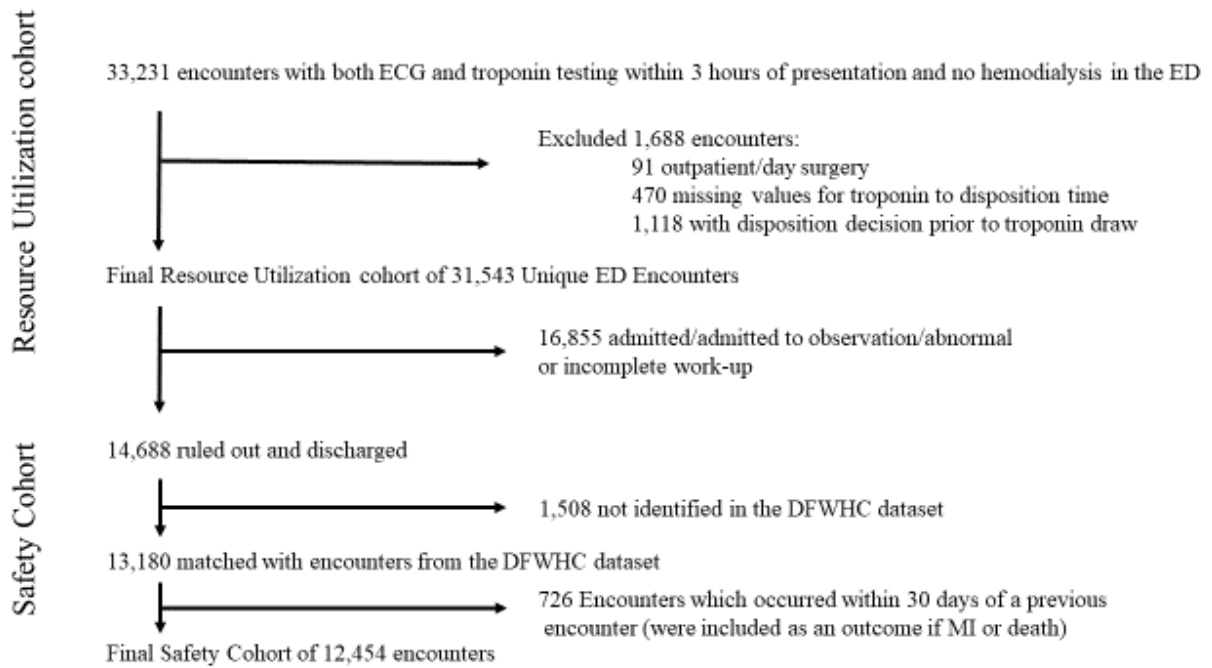
eFigure 1. Resource Utilization and Safety Cohorts

eFigure 2. Parkland Hospital/UT Southwestern Protocol for Rapid Myocardial Infarction Rule-out Using the hs-cTnT Assay

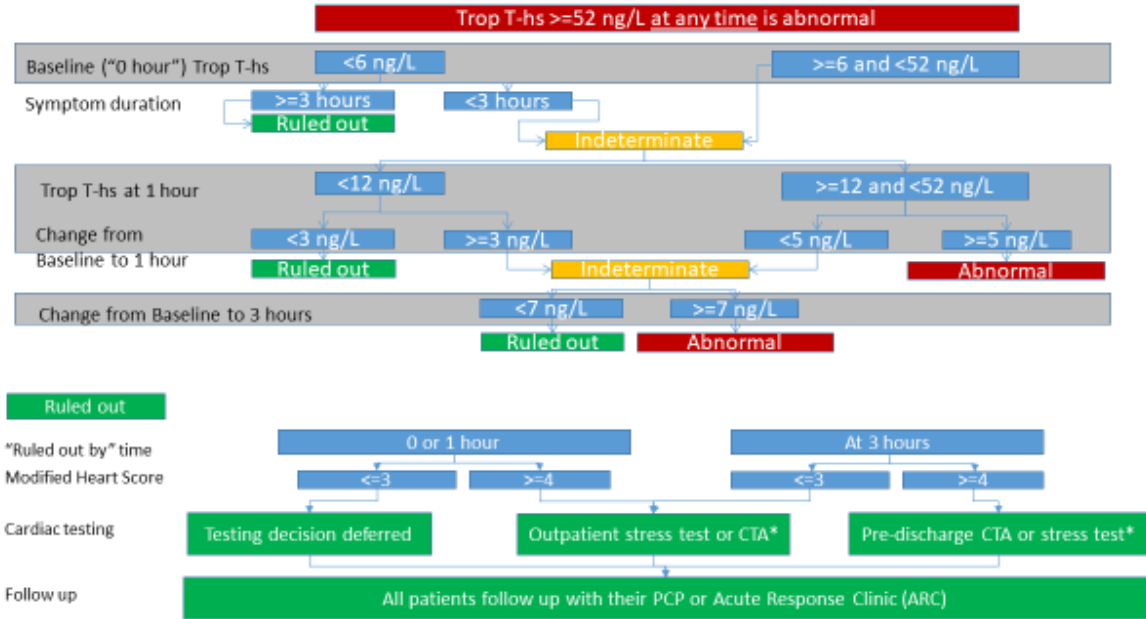**eFigure 3.** Median Monthly Dwell Times and Toponin to Disposition Times Pre and Post-Intervention

eTable 1. Odds of Admission vs Discharge and Observation vs Discharge

This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure 1: Resource Utilization and Safety Cohorts

Resource Utilization cohort

33,231 encounters with both ECG and troponin testing within 3 hours of presentation and no hemodialysis in the ED

Excluded 1,688 encounters:
- 91 outpatient/day surgery
- 470 missing values for troponin to disposition time
- 1,118 with disposition decision prior to troponin draw

Final Resource Utilization cohort of 31,543 Unique ED Encounters

16,855 admitted/admitted to observation/abnormal or incomplete work-up

Safety Cohort

14,688 ruled out and discharged

1,508 not identified in the DFWHC dataset

13,180 matched with encounters from the DFWHC dataset

726 Encounters which occurred within 30 days of a previous encounter (were included as an outcome if MI or death)

Final Safety Cohort of 12,454 encounters

eFigure 2: Parkland Hospital/UT Southwestern protocol for rapid myocardial infarction rule-out using the hs-cTnT assay. CTA = Coronary CT Angiography

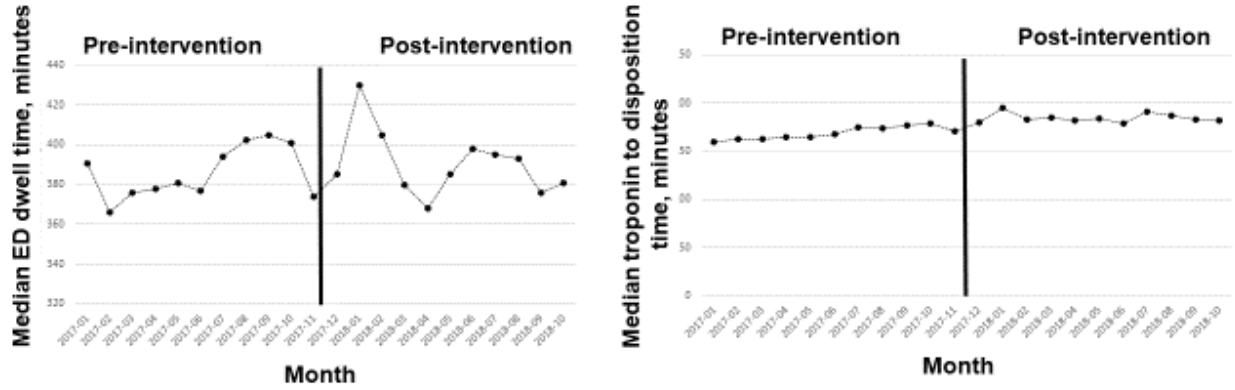eFigure 3: Median Monthly Dwell Times and Toponin to disposition times pre and post-intervention

Table 3. Odds of Admission vs Discharge and Observation vs Discharge

	Preintervention		Postintervention		*P* values (interaction term) for OR admit vs discharge	*P* values (interaction term) for OR observe vs discharge
	OR admit vs discharge	OR observe vs discharge	OR admit vs discharge	OR observe vs discharge		
Odds of admission vs discharge and observation vs discharged pre- and postintervention, unadjusted analysis						
Total cohort (n = 31 543)	0.98 (0.97-1)	0.99 (0.98-1)	0.97 (0.95-1)	1 (0.97-1.03)	.27	.08
Chest pain subcohort (n = 12 845)	0.98 (0.96-1)	0.98 (0.97-1)	0.98 (0.93-1.03)	1.01 (0.97-1.06)	.89	.06
Subcohort with MI excluded (n = 25 611)	0.98 (0.97-0.99)	0.99 (0.98-1)	0.98 (0.94-1.01)	1.01 (0.97-1.04)	.63	.09
Chest pain and MI excluded subcohort (n = 10 917)	0.98 (0.96-1.01)	0.98 (0.97-1)	0.99 (0.93-1.06)	1.01 (0.97-1.06)	.58	.045
Odds of admission vs discharge and observation vs discharged pre- and post-intervention, adjusted analysis						
Total cohort (n = 25 082)	0.98 (0.97-0.99)	0.99 (0.97-1)	0.98 (0.95-1.01)	1.01 (0.98-1.04)	.91	.03
Chest pain subcohort (n = 10 420)	0.98 (0.96-1)	0.98 (0.96-1)	0.99 (0.94-1.04)	1.01 (0.97-1.06)	.54	.02
Subcohort with MI excluded (n = 20 505)	0.98 (0.96-0.99)	0.99 (0.98-1)	0.98 (0.95-1.02)	1.01 (0.98-1.05)	.78	.03
Chest pain and MI excluded subcohort (n = 8930)	0.98 (0.96-1)	0.98 (0.96-1)	1 (0.94-1.06)	1.02 (0.97-1.07)	.35	.01

Abbreviation: IQR, interquartile range.