



LESSONS LEARNED FROM FATAL SHOOTING IN THE BSW-IRVING ED

Connie Swickhamer DO FACEP, Barbara Klausing MHA BSN RN NEA-BC, Cindy Schamp MHA FACHE, Blake Johnson MD

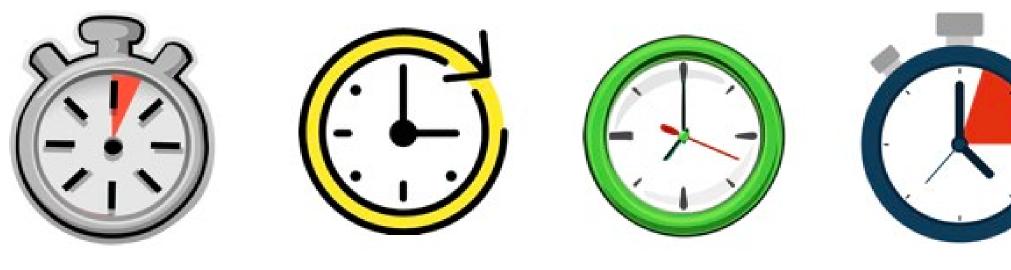
INCIDENT

- ED patient presented for evaluation of cough on the evening of *June 29, 2022*.
- Patient behavior became erratic before ultimately pulling a handgun with ED physician in the room.
- BSW PD contacted immediately, Irving PD already coincidentally in the ED for legal blood draw, also called SWAT for back-up.
- 4 shots were fired in ED by the patient.
- Patient then fatally shot by Irving PD while still in ED treatment room.
- **No ED staff, officers, or patients** were physically harmed by gunfire.

IMMEDIATE RESPONSE

- BSW system and Irving hospital leaders immediately responded to the scene once safe.
- ED Supervisors/Manager contacted off-duty RNs and technicians to come work and allow staff who were present to be relieved.
- ED physician and APP caring for gun-wielding patient were allowed to return home mid-shift.
- BSW-Irving ED went on EMS diversion for next several hours.
- ED became an **active crime scene** –> Additional treatment rooms opened in back of ED to account for 7 ED rooms that were off-limits for the next several days/weeks.

A FEW MINUTES CHANGES EVERYTHING



STARTING THE HEALING PROCESS

- Employee Assistance Program (EAP) counselors prese within 24 hours and available 2 days the following wee
- EAP led formal staff debriefings held within 48 hours.
- BSW System Lead for Peer Support personally called ev staff member the following week to offer support.
- BSW-Irving Hospital President (Cindy Schamp) met wi ED staff at all levels in small group formats to personal what each team member/group needed to feel safe (>) separate meetings).

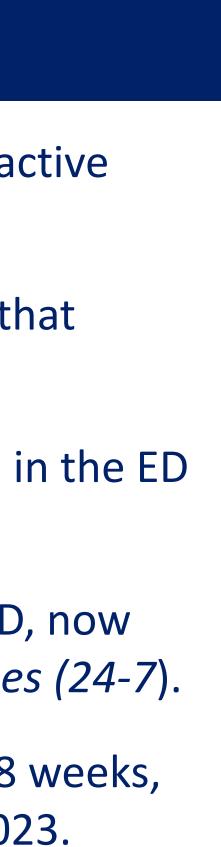
SHORT-TERM CHANGES

- **No Weapons/Knives Policy** implemented and adapted BSW system with aggressive signage throughout the ED.
- ED entrance door open timing shortened from 30 seconds to 15 seconds limiting unauthorized access.
- Intercom system access moved to Unit Secretary phone only.
- New lighting changes on the exterior of ED Triage area and ambulance bay.
- Closed circuit security cameras installed throughout the ED with comprehensive monitor stations in ED Triage and physician charting areas.
- "Red" emergency phones with outside lines added to every nursing station in the ED.



	LONG-TERM OUTCOMES
	 All ED staff and providers participated in formal a shooter training program.
ent	 ED staff members provided with locator badges t include panic buttons if needed.
ek.	 Permanent podium for BSW PD officers installed waiting room.
very	 Additional positions posted and hired for BSW PE staffed with 2-3 police/security officers at all time
rith all lly hear 910	 Trial of Evolv Weapon Detection System within 8 followed by permanent installation in January 20
	TAKE-HOME LESSONS
d by D	• Staff safety is paramount until threat is eliminate

- Debriefing with professionals is important for the healing process.
- Communication of an event to rest of the hospital and ancillary services needs to be optimized. (Hospital units outside the ED, visitors, EMS, etc).
- Mobilizing new staff to relieve affected staff in real time allows the healing process to begin sooner.
- MOST IMPORTANTLY: Every member of our ED staff at BSW-Irving remained employed after the incident, many citing leadership team's focus on healing and staff needs/desires for safety as a reason for their retention.







CAN USING AN EPIC DOT PHRASE (.SEPSISID) **IMPROVE SEPSIS BUNDLE COMPLIANCE IN THE EMERGENCY DEPARTMENT AT BSW IRVING?**

CONNIE SWICKHAMER, DO, FACEP, MARGARIDA CAMACHO, MSN/MHA, RN-BC

INTRODUCTION

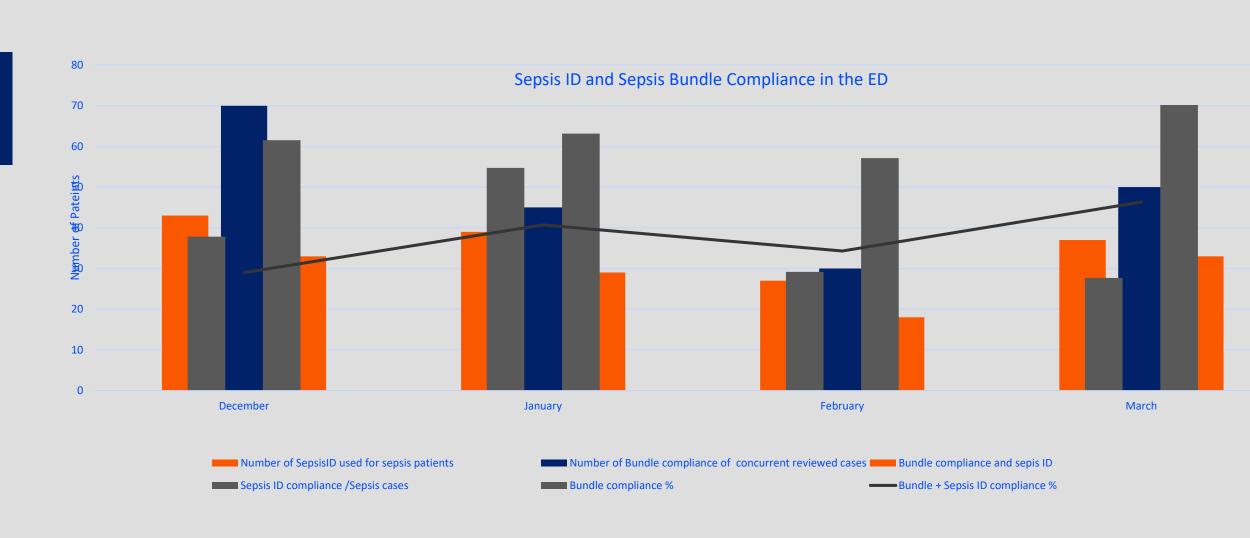
- 1.7 million Americans develop sepsis in a typical year¹
- 1 in 3 people who dies in a hospital had sepsis during their hospitalization
- In almost 87% of cases, patient had sepsis, or the infection causing sepsis prior to arrival in the hospital¹
- Sepsis has been and continues to be a focus in the Baylor Scott& White Health with designation of Sepsis Task Forces for hospitals with Sepsis Accountable Owners

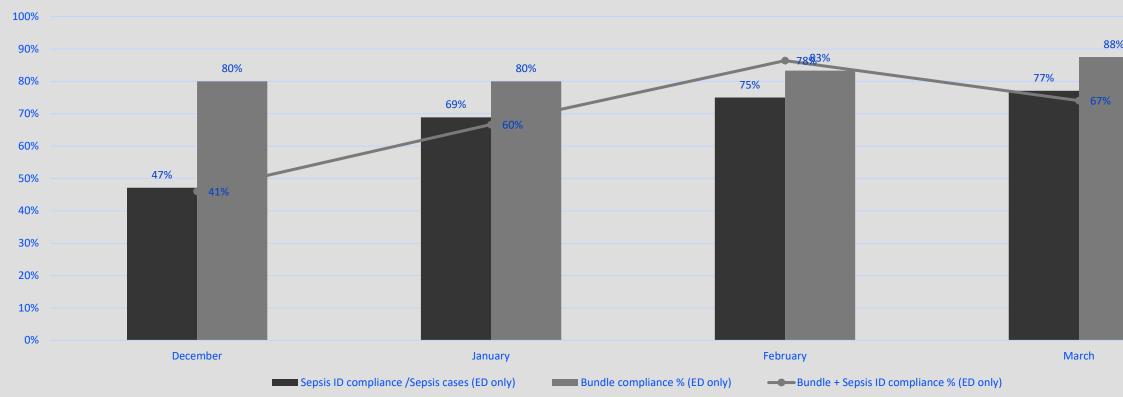
METHOD

- BSW Irving has a process for concurrent real-time sepsis reviews through EPIC
- The sepsis bundle compliance goal for BSW Irving is 70%
- There were a significant number of cases that required daily EPIC contact with physicians, APPs, and nurses from our Sepsis coordinator to assist with improved documentation for possible Sepsis OFI
- Our idea was that we were able to improve compliance with documentation in EPIC there would be improved compliance with the 3 and 6 hour Sepsis Bundle as well

PROCESS

- In October 2022, the BSW Irving ED were given education 415 Sepsis cases underwent concurrent review for on the updated .SEPSISID dot phrase during monthly 4 months December 2022 through March 2023 and 168 cases were excluded with 199 being ED department meeting We started to track data in December 2022 as to whether cases
- or not .SEPSISID dot phrase was utilized on the concurrent reviews that coded as Severe Sepsis/Septic Shock as final diagnosis
- We looked to see if increased utilization of the dot phrase that documents the main points of Sepsis care increased Sepsis Bundle Compliance for the hospital
- Monthly mortality data for Sepsis is also tracked and may be affected by Sepsis Bundle compliance





Sepsis ID and Sepsis Bundle Compliance ED

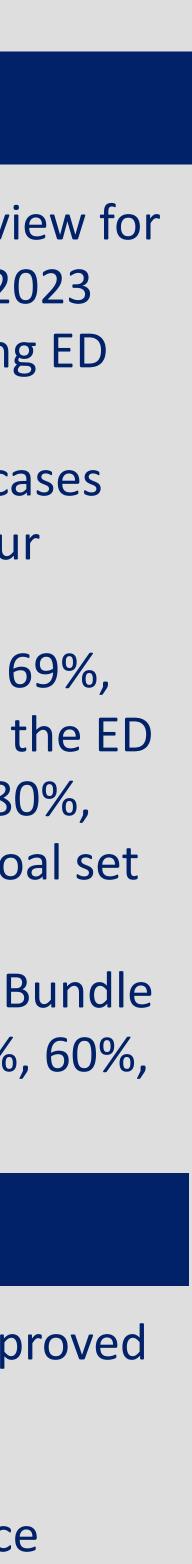
RESULTS

- The number of severe sepsis/septic shock cases included were 70, 45, 36, and 48 for the four months
- .SEPSISID dot phrase compliance was 47%, 69%, 75%, and 77% for the months in review for the ED
- Bundle compliance % for the ED has been 80%, 80%, 83%, and 88% which are above the goal set at 70%
- Percentage of patients that met the Sepsis Bundle and the provider utilized .SEPSISID was 41%, 60%, 78% and 67%

CONCLUSION

- Sepsis Bundle compliance in the ED has improved and remains above goal of 70%.
- There was improvement in both .SEPSISID utilization and the Sepsis Bundle compliance
- It is likely that concurrent reviews and direct communication with providers and staff to address documentation in real time affected Sepsis Bundle compliance
- Our goal is to increase utilization of .SEPSISID dot phrase in Severe Sepsis/Sepsis Shock with the hospitalist, critical care and OB physicians with education to improve facility wide Sepsis Bundle Compliance
- **REFERENCE:** 1. www.cdc.gov.sepsis













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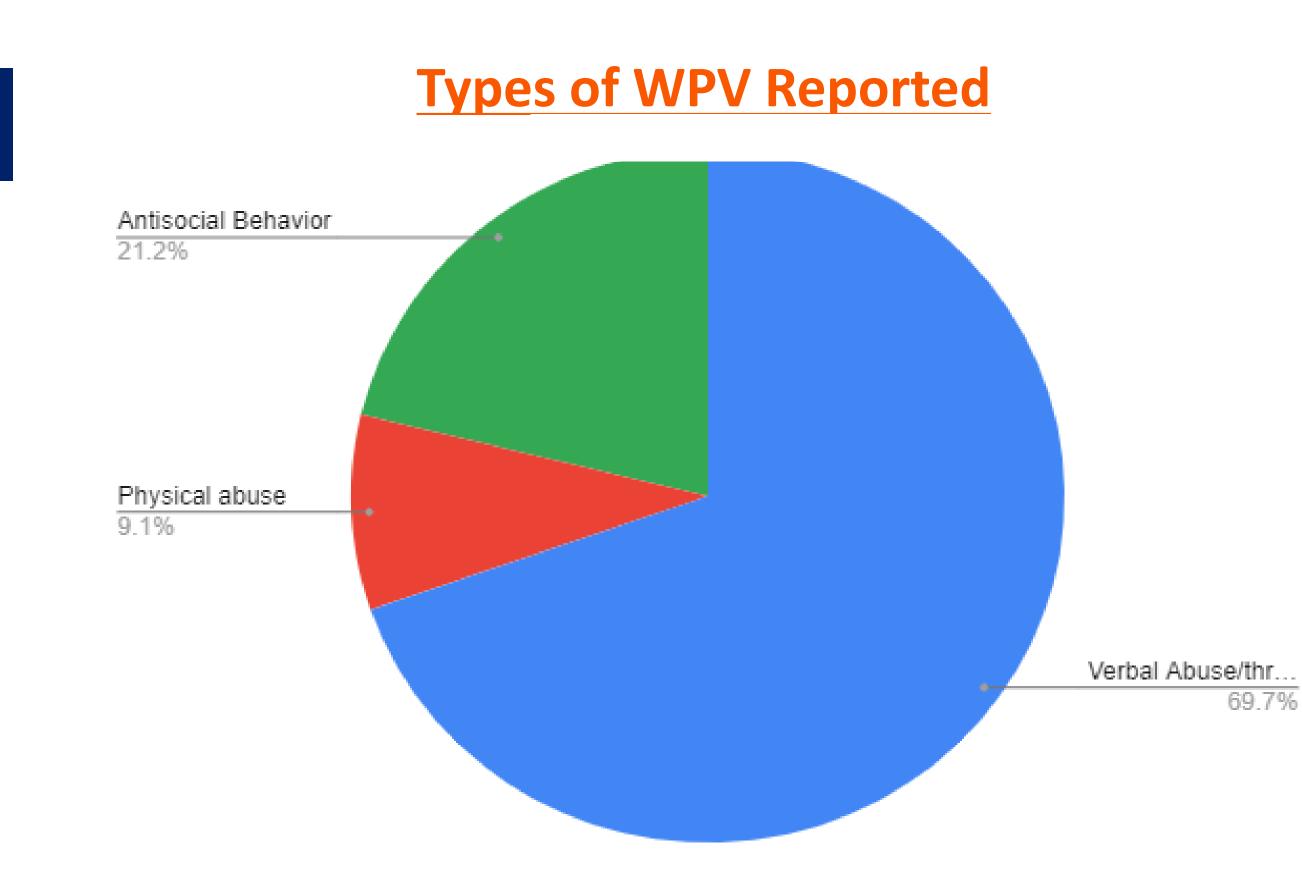
INTRODUCTION

- Workplace violence (WPV) is ANY act or threat of physical violence, harassment, intimidation, or other threatening/disruptive behavior occurring at the work site.
- Of those victims who experience trauma from workplace violence:
 - 68% are female
 - 65% are 25 to 54 years old
 - 70% work in healthcare/social assistance industry
 - 21% require 31 or more days away from work to recover
- In the wake of recent WPV incidents in our department and others, we initiated new processes that would ensure a safe ED for our staff and patients.

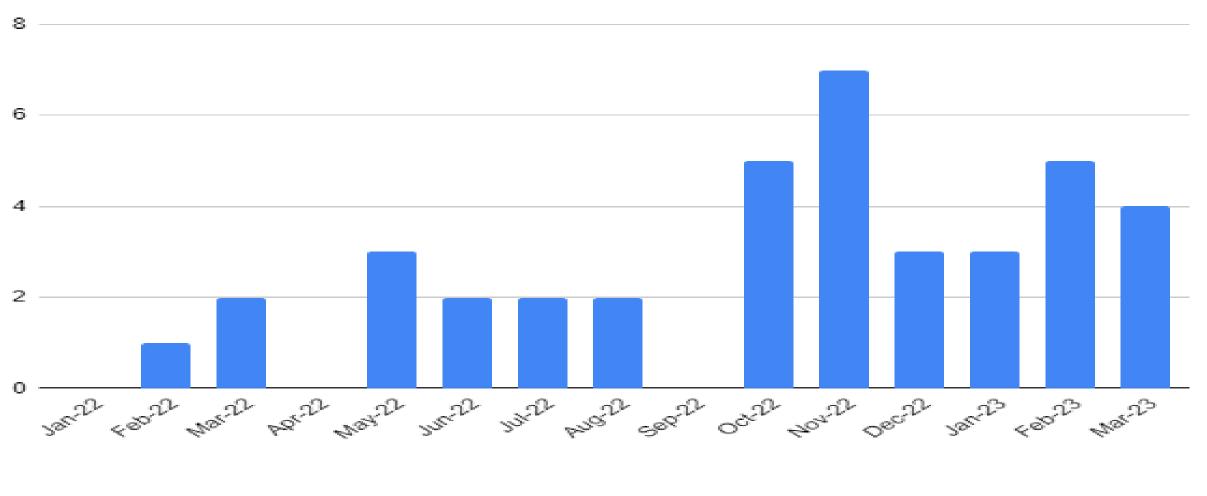
METHODS/PROCESS

- A WPV committee composed of ED staff from all levels was assembled, resulting in the following actions:
 - Awareness campaign with reading materials and inperson education at group meetings
 - ED staff provided locators and panic buttons for personal safety
 - Web-based reporting tool developed and disseminated to ED staff
 - Incidents recorded in MIDAS to ensure thorough follow-up
 - Ongoing reinforcement of education

STOP THE ABUSE! A WORKPLACE VIOLENCE PILOT IN A COMMUNITY ED



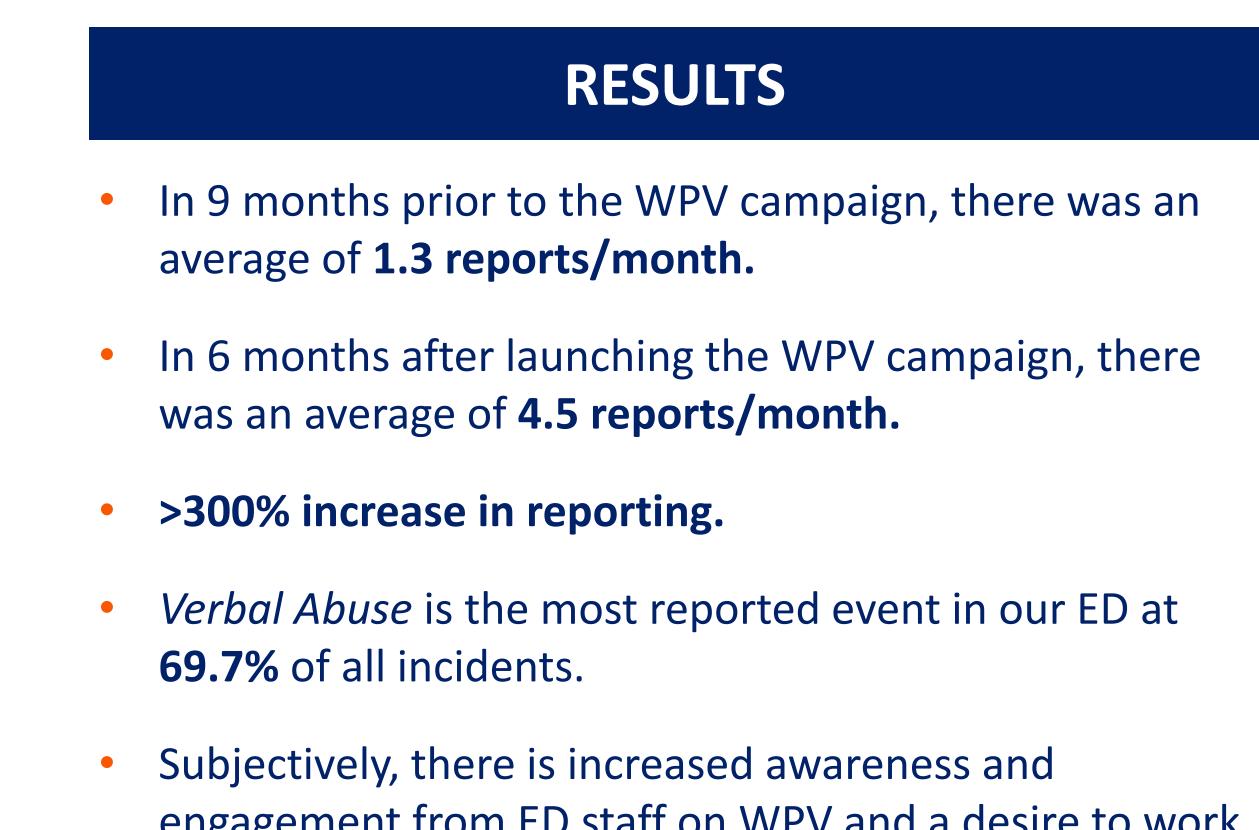
Of Incidents Reported/Month



METHODS/PROCESS (cont)

- Primary focus was addressing the *under-reporting of WPV* events, a widespread issue in healthcare.
- Reported incident data periodically monitored to assess progress.





engagement from ED staff on WPV and a desire to work together to improve the safety of our ED.

CONCLUSION & PLAN

- Since the inception of this WPV campaign, there has been a marked increase in reporting and staff engagement.
- Availability of widespread education, an easy-to-use reporting tool, and access to MIDAS are important drivers of reporting.
- We believe these initiatives have improved safety in the ED for both our patients and staff.
- This data will be used to inform hospital and system administration on the scope of WPV in the ED, in hopes that additional resources will be allocated towards ED security and safety.







ADENOSINE VS DILTIAZEM ON REVERSING SUPRAVENTRICULAR TACHYCARDIA IN EMERGENCY DEPARTMENT (THE ADVISED STUDY): A MULTICENTER COHORT STUDY

Eric H Chou, MD^{1,2}, Benjamin Morrissey, MD², Ali Farzad, MD², Toral Bhakta, DO¹, Dahlia Hassani, MD¹, John Garrett, MD² 1. Dept. of Emergency Medicine, Baylor Scott & White All Saints Medical Center, Fort Worth, TX 2. Dept. of Emergency Medicine, Baylor University Medical Center, Dallas, TX

INTRODUCTION

- Adenosine and Diltiazem are the two most used agents for supraventricular tachycardia (SVT), a common arrhythmia in the emergency department (ED).
- Current guidelines give stronger recommendations for adenosine vs. diltiazem as a first line treatment of SVT.

OBJECTIVES

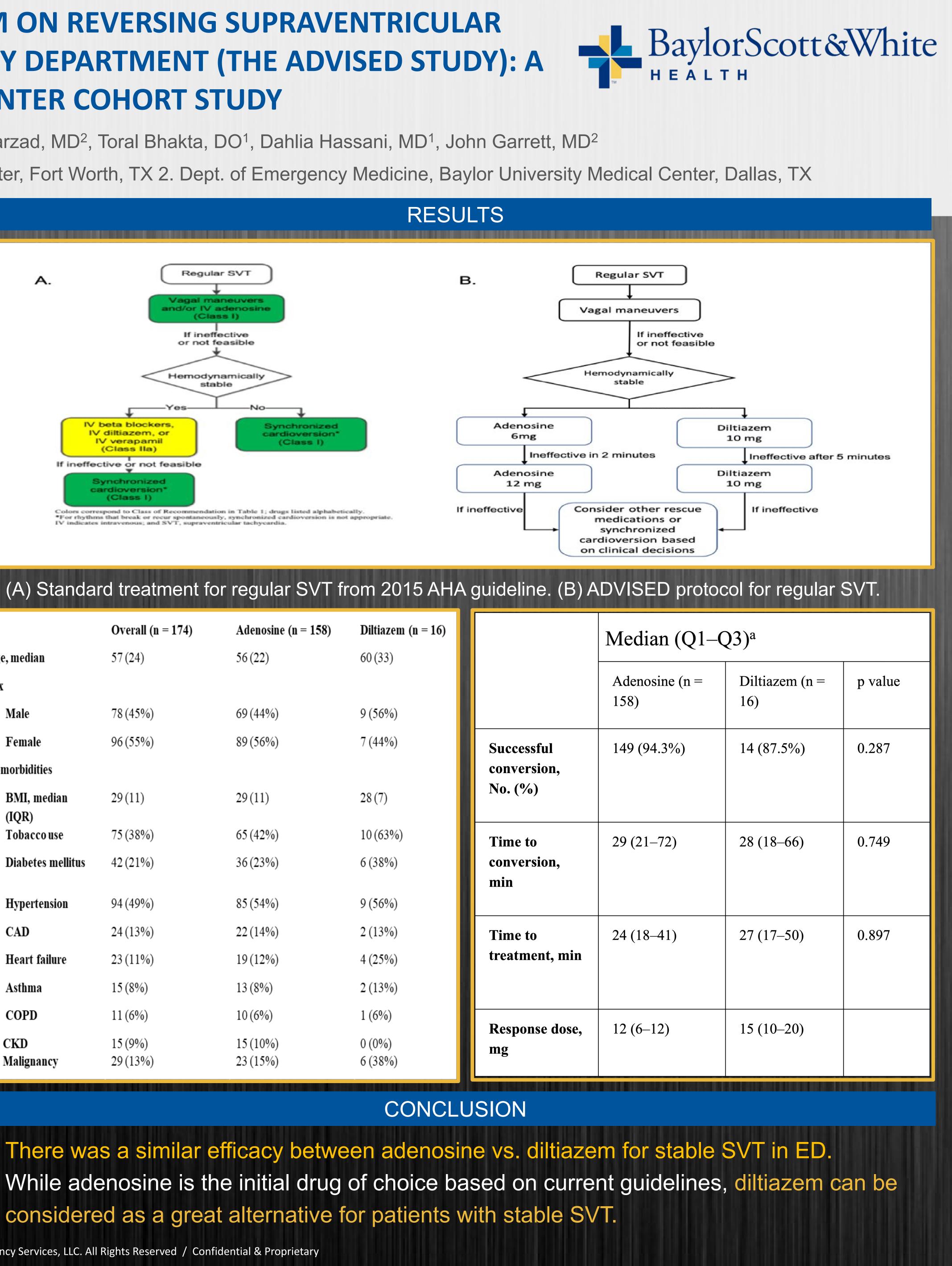
- Compare the efficacy of bolus intravenous adenosine versus diltiazem in the termination of spontaneous SVT in the ED.
- Determine if diltiazem as the potential to become a first line treatment for SVT in the ED.

METHODS

- Retrospective, multi-center, cohort study conducted in 15 community ED's in North Texas.
- All adult patients \geq 18 years presenting with SVT in the ED treated with adenosine or diltiazem as initial treatment were included.
- Primary outcome: Rate of successful conversion to sinus rhythm.
- Secondary outcomes: time to treatment, time to conversion, and response dose of pharmacological agents.
- Wilcoxon rank-sum test and Pearson chi-square test for categorical data comparison between groups.

RESULTS

- The rate of successful conversion had no significant difference in adenosine versus diltiazem group (94.3% vs 87.5%, p=0.287). There is no significant difference in the mean time to conversion (p=0.749) and the mean time to treatment (p=0.897) between both groups.
- To achieve successful conversion, the median required dose of adenosine was 12 mg (IQR 6-12 mg), and the median dose of diltiazem was 15 mg (IQR 10-20 mg).



Age, median 57 (24) 56 (22) Sex Male 78 (45%) 69 (44%) Female 96 (55%) 89 (56%) Comorbidities 29 (11) 29 (11) BMI, median 29 (11) 29 (11) Itemation 75 (38%) 65 (42%) Diabetes mellitus 42 (21%) 36 (23%) Hypertension 94 (49%) 85 (54%) CAD 24 (13%) 22 (14%) Heart failure 23 (11%) 19 (12%) Asthma 15 (8%) 13 (8%) CNPD 11 (6%) 10 (6%) CKD 15 (9%) 23 (15%)			Overall (n = 174)	Adenosine (n =
Male 78 (45%) 69 (44%) Female 96 (55%) 89 (56%) Comorbidities 29 (11) 29 (11) BMI, median (IQR) 29 (11) 29 (11) Tobacco use 75 (38%) 65 (42%) Diabetes mellitus 42 (21%) 36 (23%) Hypertension 94 (49%) 85 (54%) CAD 24 (13%) 22 (14%) Heart failure 23 (11%) 19 (12%) Asthma 15 (8%) 13 (8%) COPD 11 (6%) 10 (6%) CKD 15 (9%) 15 (10%)	Ag	ge, median	57 (24)	56 (22)
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CKD 15 (9%) 15 (10%)		Asthma	15 (8%)	13 (8%)
		COPD	11 (6%)	10 (6%)
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There was a similar efficacy between adenosine vs. diltiazem for stable SVT in ED. considered as a great alternative for patients with stable SVT.

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Background

- •Early administration of intravenous tPA is associated with higher rates of favorable clinical outcomes in acute ischemic strokes
- •Door-to-CT time (DTCT) within 25 minutes of arrival to the hospital is recommended
- •Unclear if race-ethnic and gender disparities play a role in delaying Door-to-CT with the effect of the COVID-19 pandemic.

Objectives

 To investigate the relationship between sociodemographic factors and DTCT in the Emergency Department (ED) under the effect of COVID-19.

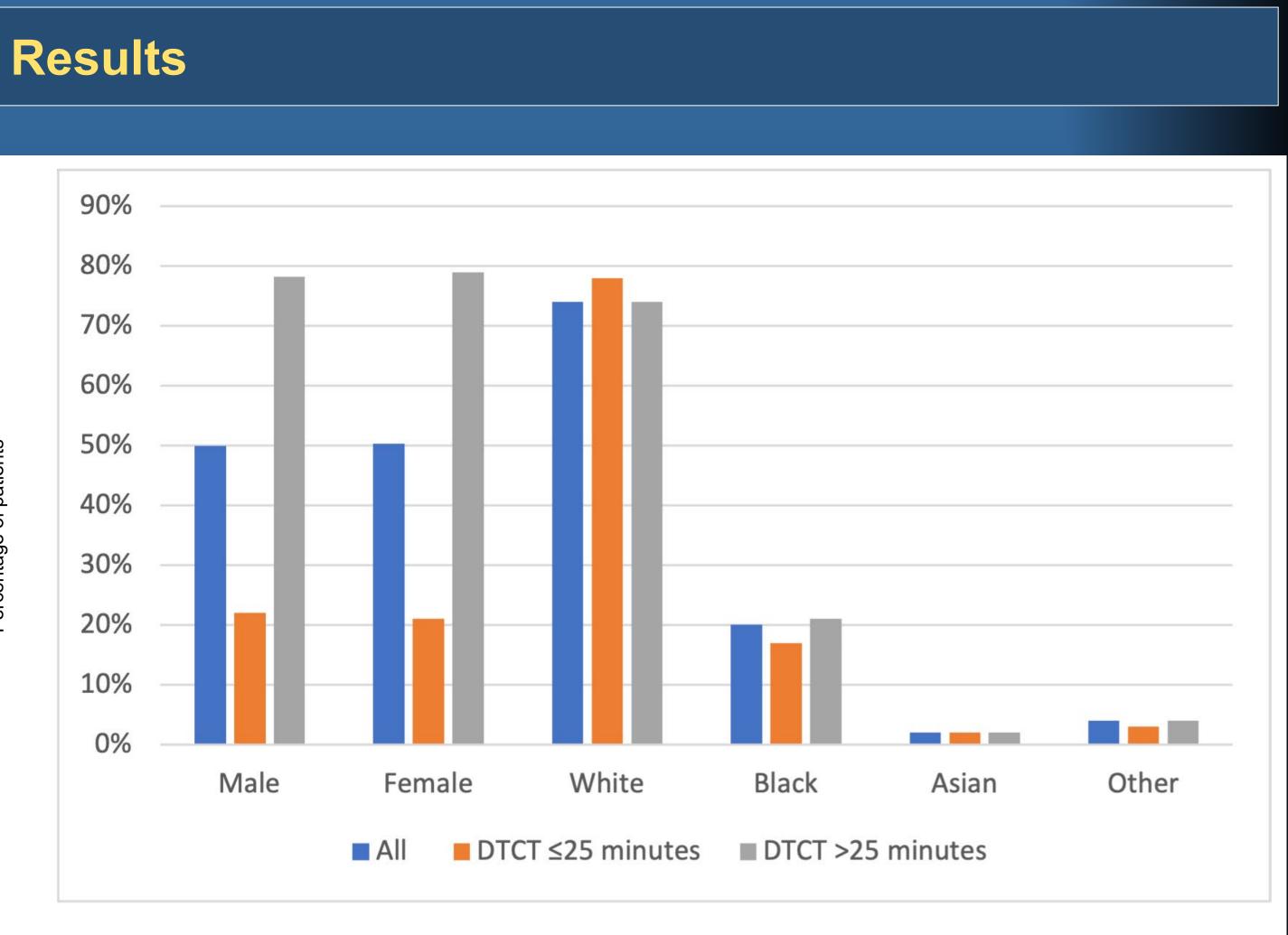
Methods

- Retrospective, multi-center, cohort study conducted in 5 urban community ED's in North Texas.
- We included all adult patients ≥18 years presenting with suspected acute ischemic stroke in the ED.
- Pre-COVID (before March 2020), during COVID, and post-COVID (after March 2022).
- Primary outcome: DTCT ≤25 minutes upon arrival to the ED for all patients suspected of acute ischemic stroke.
- Multivariate logistic regression was performed to examine the associations between independent variables and outcomes

Association Between Sociodemographic Disparities And Door-BaylorScott&White to-ct Time In Acute Ischemic Stroke With The Effect Of COVID-19

Patient characteristics	All (n= 23,364)	Door to CT ≤25 min (n= 4,468)	Door to CT >25 min (n= 16,464)	p-value
Age (year), mean±SD	69±15	70±15	69±15	<mark><0.01</mark>
Sex, n (%)				0.14
Male	11,617 (49.7)	2,255 (21.8)	8,102 (78.2)	
Female	11,747 (50.3)	2,213 (20.9)	8,362 (79.1)	
Race, n (%)				<mark><0.01</mark>
White	17,345 (74.2)	3,481 (77.9)	12,161 (73.9)	
Black	4,745 (20.3)	763 (17.1)	3,369 (20.5)	
Asian	454 (1.9)	72 (1.6)	346 (2.1)	
Other	820 (3.5)	152 (3.4)	588 (3.6)	
Hypertension, n (%)	19,599 (83.9)	3,826 (85.6)	13,782 (83.7)	<mark><0.01</mark>
Diabetes mellitus, n (%)	10,082 (43.2)	1,826 (40.9)	7,202 (43.7)	<mark><0.01</mark>
Coronary artery disease	7,532 (32.2)	1,435 (32.1)	5,280 (32.1)	0.95
Smoking history, n (%)	8,869 (46.4)	1,663 (46.1)	6,243 (46.1)	0.98
COVID status				<mark><0.01</mark>
Pre-COVID	6,852 (29.3)	1,519 (34.0)	4,425 (26.9)	
COVID	13,593 (58.2)	2,397 (53.7)	9,859 (59.9)	
Post-COVID	2,919 (12.5)	552 (12.4)	2,180 (13.2)	

	Odds ratio (95% CI)	p-value	
Race			
White	-	-	
Black	1.35 (1.23-1.49)	<mark><0.001</mark>	
Asian	1.33 (1.01-1.74)	<mark>0.04</mark>	
Other	1.09 (0.90-1.33)	0.38	
Hispanic	1.20 (1.07-1.34)	<mark>0.002</mark>	
Insurance			
None	-	-	
Commercial	1.16 (1.02-1.32)	0.03	
Medicare/Medicaid	1.00 (0.87-1.15)	1.00	
Temperature	1.06 (1.02-1.10)	0.004	
Mean arterial pressure (MAP)	0.99 (0.99-1.00)	<0.001	
Glasgow Coma Scale			
3-8	-	-	
9-12	0.45 (0.35-0.56)	<0.001	
13-15	0.95 (0.78-1.16)	0.59	
Cirrhosis	1.31 (1.16-1.49)	<0.001	
Chronic kidney disease (CKD)	1.13 (1.04-1.22)	0.005	
COVID period			
Pre-COVID	-	-	
During COVID	1.45 (1.34-1.57)	<mark><0.001</mark>	
Post-COVID	1.46 (1.34-1.57)	<mark><0.001</mark>	



Patients evaluated during COVID (OR 1.45; 95% CI 1.34-1.57) and post-COVID (OR 1.46; 95% CI 1.30-1.65) were more likely to have DTCT >25 minutes compared to patients evaluated in the pre-COVID period.

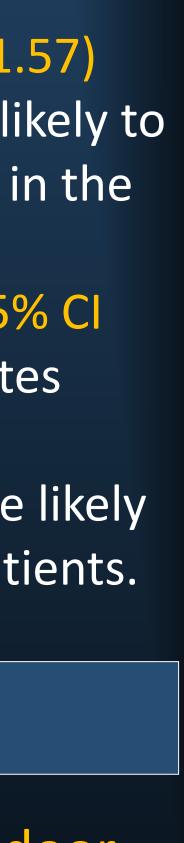
Black (OR 1.35; 95% CI 1.23-1.49) and Asian (OR 1.33; 95% CI 1.01-1.74) race were more likely to have DTCT >25 minutes compared to White race.

Hispanic patients (OR 1.20; 95% CI 1.07-1.34) were more likely to have DTCT >25 minutes compared to non-Hispanic patients.

Conclusion

Race and ethnic disparities were noted in delaying doorto-CT time in acute ischemic stroke patients. We also observed a delayed door-to-CT time within 25 minutes from the effect of COVID pandemic.









CASE REPORT OF PARADOXICAL AGITATION TO ETOMIDATE ADMINISTRATION DURING CONSCIOUS SEDATION

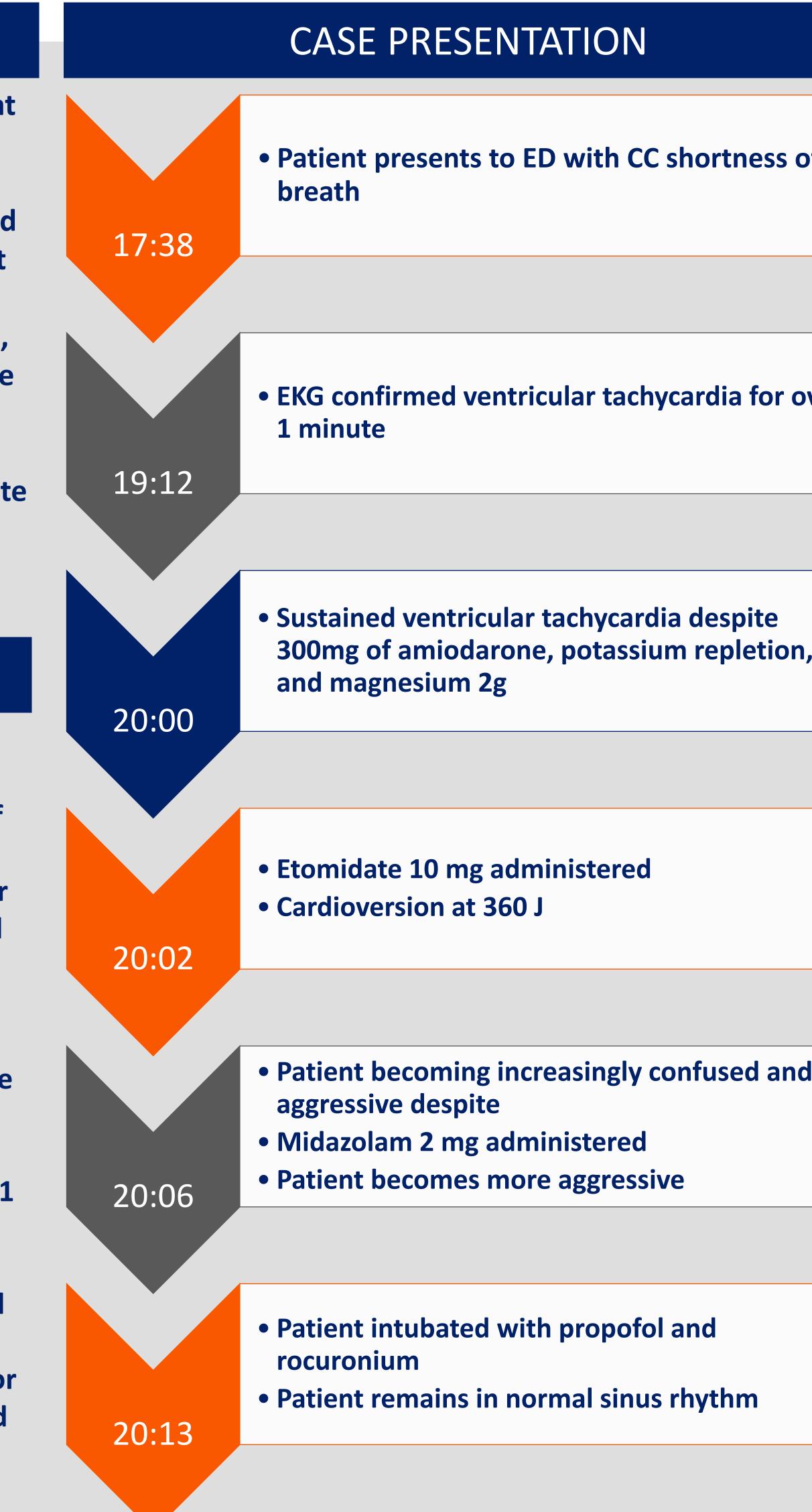
INTRODUCTION

- **Etomidate is an imidazole-derived sedative hypnotic that** stimulates GABA receptors to block neuroexcitation leading to reduced consciousness¹
- The fast onset, short to moderate duration of action, and hemodynamic neutrality make etomidate an ideal agent for procedural sedation, particularly cardioversions²
- Side effects such as myoclonus and adrenal suppression, are well elucidated in the literature. However, some case reports of paradoxical aggression have been seen when etomidate³⁻⁵
- We describe a case of a paradoxical reaction to etomidate causing aggressiveness necessitating mechanical ventilation

EMERGENCY DEPARTMENT COURSE

A 44-year-old male with a past medical history of nonischemic cardiomyopathy with left ventricular assist device (LVAD) presented to the emergency department with a chief complaint of shortness of breath. On presentation, the patient had several occurrences of non-sustained ventricular tachycardia with a pulse eventually culminating in sustained ventricular tachycardia. During this time, the patient remained alert and oriented, and LVAD flow remained unchanged. Interrogation of the LVAD revealed no power spikes, speed drops, or other LVAD alarms. After amiodarone 300 mg bolus and 2 g of magnesium sulfate, the patient remained in ventricular tachycardia. The decision was made to sedate the patient for cardioversion. Etomidate 10 mg (0.1 mg/kg) was administered via peripheral IV. He was successfully cardioverted with 360 J per the cardiologist. After cardioversion, the patient became profoundly agitated requiring multiple staff members to restrain him. Despite administration of midazolam 2mg IV, agitation worsened. For the safety of the patient and staff, the patient was intubated using propofol and rocuronium.

Trey Van Dyke, PharmD; Katie Weigartz, PharmD, BCPS; Christina Bird, DO **Baylor University Medical Center**

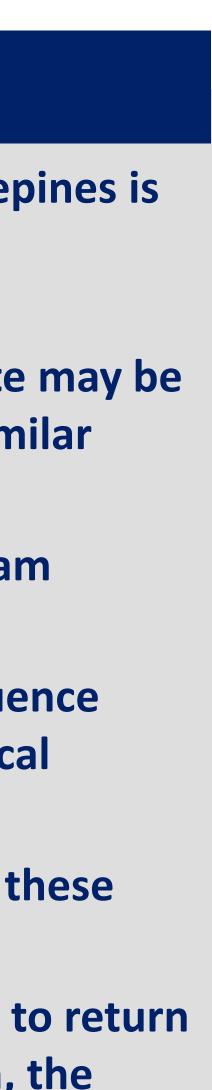


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		DISCUS	SION	
	diosyncratic psych rare but well docu etomidate			
1	Mechanism of this related to those se GABA-A binding si	een in benzo		
	Attempted treatm worsened sympto	•••	ession with	midazola
i	Frequency of eton Intubation has led reactions			
	Due to the short d reactions may qui		ction of et	omidate,
1	For safety of patie to arrhythmia with decision was made	h increasing	HR due to	•
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	Stollings J, et al. Annals of I Falk J, et al. Annals of Phar Mancusco CE, et al. Pharm	macotherapy. 2004	4(38):511-512	

- Perrone J, et al. The American Journal of Emergency Medicine. 2006(24):511-512
- Sondekoppam VR, et al. Saudi Journal of Anaesthesia. 2012(6):303-304









COMPARING THE EFFICACY OF DIFFERENT INITIAL TREATMENTS OF SUPRAVENTRICULAR TACHYCARDIA IN EMERGENCY DEPARTMENT: A MULTI-CENTER COHORT STUDY

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INTRODUCTION

Intravenous adenosine is the current initial drug of choice for stable supraventricular tachycardia (SVT), a common arrhythmia in the emergency department (ED). There is growing evidence of using different medications for

stable SVT patients with good outcomes.

Modified Valsalva maneuvers have also been found to be an effective non-pharmaceutical therapy in converting stable SVT into sinus rhythm

OBJECTIVES

Compare the efficacy of different initial treatments of SVT in the ED across multiple community hospitals.

METHODS

- Retrospective, multi-center, cohort study conducted in 15 community ED's in North Texas.
- We included all adult patients \geq 18 years presenting with SVT in the ED.
- Primary outcome: Rate of successful conversion to sinus rhythm.
- Secondary outcomes: time to treatment, response dose of pharmacological agents, use of electrical cardioversion, hospital admission, and intensive care unit (ICU) stay.

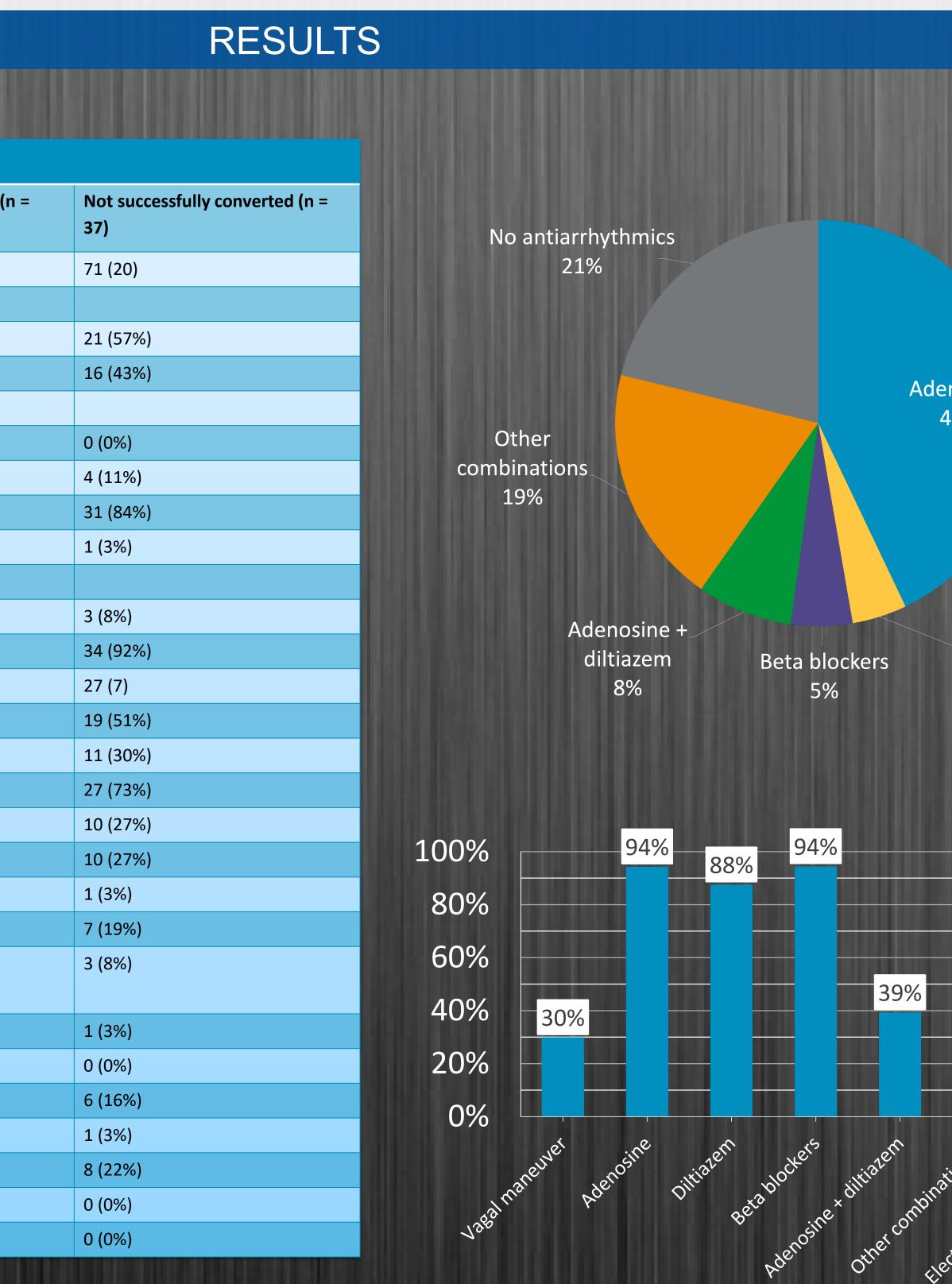
CONCLUSION

Most patients with SVT requiring pharmacological therapies were treated successfully with adenosine alone. The median response dose of adenosine was higher than the initial dose described in current guidelines.

	No. (%) ^a	
	Overall (n = 368) ^b	Successfully converted (308)
Age, median (IQR), y	58 (23)	56 (23)
Sex		
Male	163 (44%)	132 (43%)
Female	188 (51%)	160 (52%)
Race		
Asian	6 (2%)	6 (2%)
Black	65 (18%)	58 (19%)
White	282 (77%)	233 (76%)
Other	10 (3%)	9 (3%)
Ethnicity		
Hispanic	50 (14%)	45 (15%)
Non-Hispanic	316 (86%)	262 (85%)
BMI, median (IQR)	29 (11)	29 (12)
Tobacco use	155 (43%)	127 (42%)
Diabetes mellitus	78 (21%)	66 (22%)
Hypertension	204 (56%)	163 (53%)
Coronary artery disease	45 (12%)	30 (10%)
Heart failure	50 (14%)	36 (12%)
Asthma	34 (9%)	28 (9%)
COPD	21 (6%)	11 (4%)
Cerebrovascular accident	23 (6%)	19 (6%)
Hepatitis	5 (1%)	4 (1%)
Cirrhosis	9 (2%)	8 (3%)
Chronic kidney disease	30 (8%)	23 (8%)
Dementia	10 (3%)	7 (2%)
Malignancy	54 (15%)	42 (14%)
HIV	4 (1%)	4 (1%)
Solid organ transplant	4 (1%)	4 (1%)
		THE REPORT OF THE REPORT OF

- conversions.
- conversions.
- achieved successful conversions. that of diltiazem was 15 mg (IQR 10-21.25 mg).



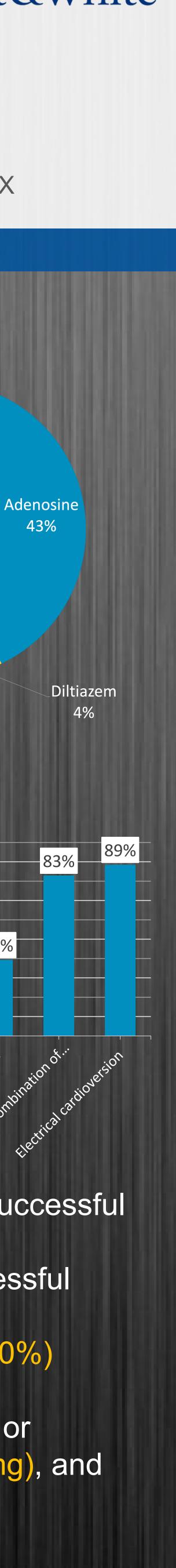


Among 84 patients (45%) receiving adenosine alone, 79 (94%) achieved successful

Among 9 patients (5%) receiving diltiazem alone, 9 (100%) achieved successful

Among 10 patients (5%) receiving beta blockers (metoprolol/atenolol), 8 (80%)

Among the successfully converted patients who received either adenosine or diltiazem, the median response dose of adenosine was 12 mg (IQR 6-18 mg), and





BaylorScott&White **IMPLEMENTATION OF CLINICAL PHARMACIST DRIVEN CULTURE REVIEW PROCESS FOR EMERGENCY DEPARTMENT DISCHARGED PATIENTS**

Katie Weigartz, PharmD, BCPS; Paige Baize, PharmD, BCPS; Stephanie Barre, PharmD; Trey Van Dyke, PharmD; Tyler Brouse, PharmD; Jazmin Agee, PharmD; Christina Bird, DO **Baylor University Medical Center**

INTRODUCTION

- **Emergency Medicine Clinical Pharmacists (EM** pharmacists) receive specialized training to optimize antibiotic coverage for various infectious organisms while prioritizing antimicrobial stewardship¹
- The Emergency Department (ED) poses a challenging environment for review of discharged patient culture results due to the rotating provider schedule
- EM pharmacist managed culture review can lead to less subsequent patient visits, more timely patient follow up, and more accurate revised regimens than provider or nurse-driven review processes²⁻⁴
- EM pharmacists are more likely to complete an intervention related to antimicrobial stewardship and optimization of care⁵
- **Review allows for a streamlined approach to** provider recommendation and ordering

TIMELINE

August 25

EM pharmacists added to shared results folder

September 1

EM pharmacists begin review of blood, urine, skin soft tissue, and other miscellaneous infectious disease results

December 15

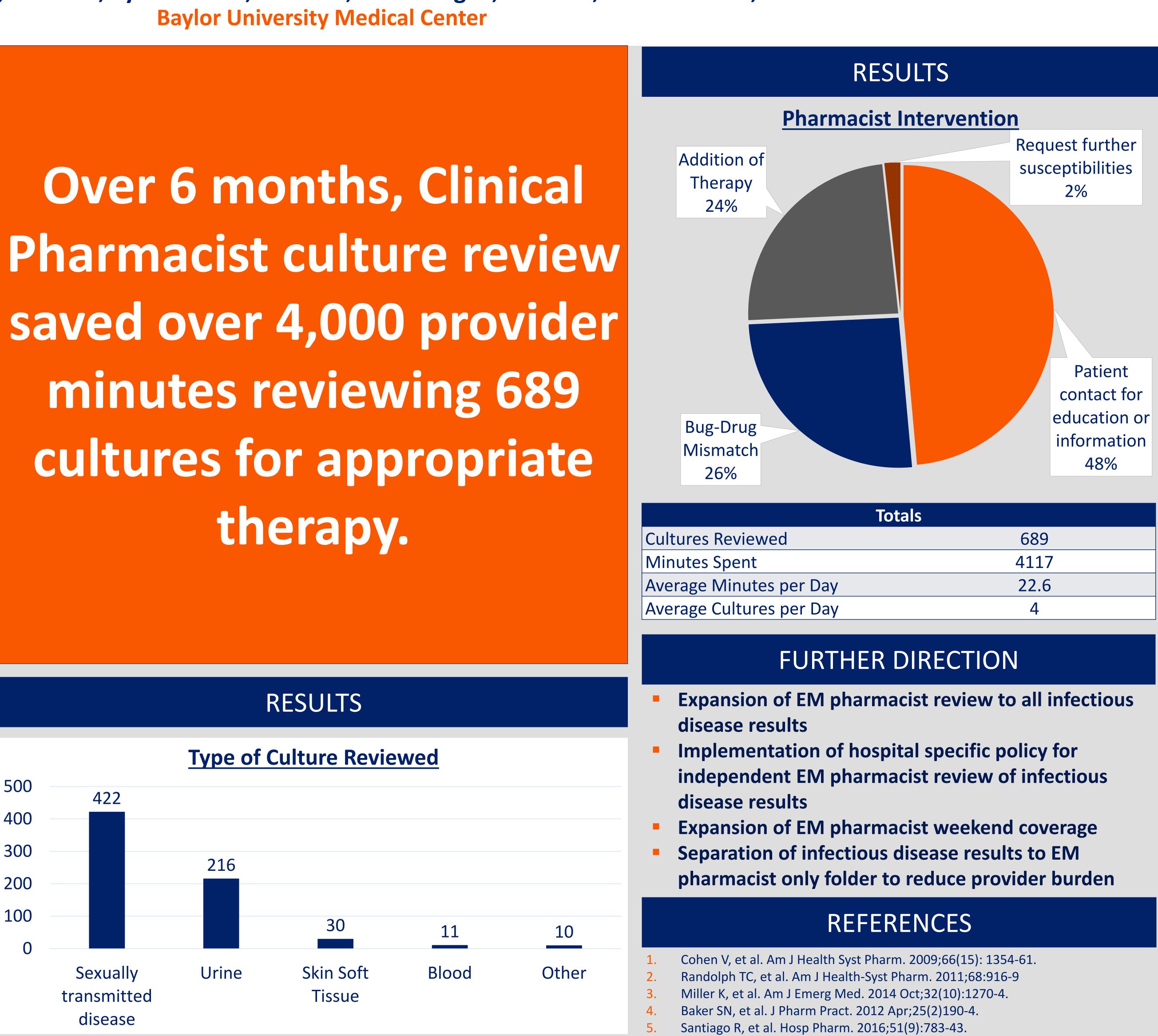
EM pharmacists begin reviewing sexually transmitted disease results; stop reviewing blood culture results

February 5

Algorithm for culture review responsibilities finalized with physicians and nurse coordinators

therapy.









Machine Learning To Predict In-hospital Cardiac Arrest In BaylorScott&White НЕА́ГТН The Emergency Department: A Multicenter Approach

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BACKGROUND

Cardiac arrest in the emergency department is a subset of in-hospital cardiac arrest (IHCA)

Although rare, it affects patients and their caregiv drastically if happens unexpectedly.

STUDY AIM

To construct prediction models to early detect in the ED using machine learning (ML) algorithms

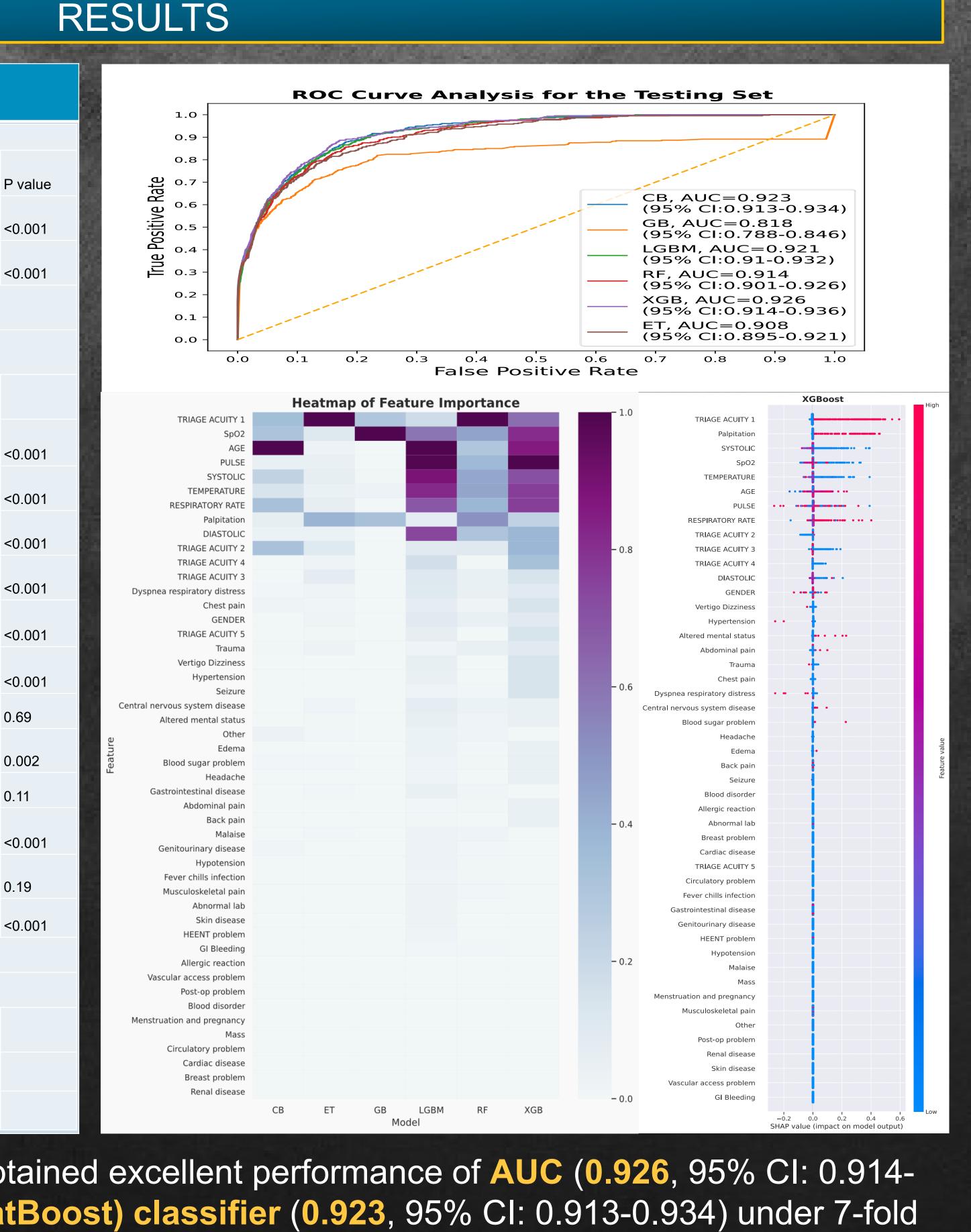
METHODS

- We retrieved data from the EMR of Baylor Scott & White Health (BSWH).
- All adult patients (age \geq 18 years) who visited one the five EDs in BSWH between May 30, 2019 and 17, 2021 were eligible for inclusion. Patients who presented with out-of-hospital cardiac arrest were excluded.
- The primary outcome was IHCA in the ED, defi as unexpected cardiac arrest requiring resuscitati during the ED stay.
- Collected records were split into training (consisting) data from one urban and two suburban hospitals) testing (consisting of data from one urban and one suburban hospitals) cohorts.
- Several ML algorithms were constructed and K-fold cross-validation was adopted during the training process. The models' performances were evaluated by using the area under the receiver operating characteristic curve (AUROC) in the testing cohort.

(ED)	Demograp	hic & C	linical	Cha	racteris	tics	3
		Training Cohort	t(n=200999)		Testing Cohort(n=	=143089)	
vers		IHCA(-) (n=200009)	IHCA(+) (n=990)	P value	IHCA(-) (n=142657)	IHCA(+) (n=432)	Ρ
	AGE, Mean(SD)	49.4 (19.2)	64.6 (17.4)	<0.001	49.1 (19.8)	67.7 (13.9)	<
	GENDER			<0.001			<
	FEMALE	105859 (52.9)	420 (42.4)		87556 (61.4)	184 (42.6)	
ИСА	MALE	94030 (47.0)	563 (56.9)		55091 (38.6)	248 (57.4)	
IHCA NS.	UNKNOWN	120 (0.1)	7 (0.7)		10 (0.0)	0 (0.0)	
	SYSTOLIC, Mean(SD)	138.8 (24.0)	124.6 (37.4)	<0.001	138.4 (23.4)	125.4 (35.0)	<
	DIASTOLIC, Mean(SD)	82.7 (16.3)	74.2 (26.7)	<0.001	79.4 (15.4)	74.2 (25.3)	<
	PULSE, Mean(SD)	88.8 (18.3)	97.4 (30.4)	<0.001	87.4 (17.9)	96.1 (27.8)	<
&	SpO2, Mean(SD) RESPIRATORY_RATE,	97.9 (3.2)	91.3 (14.7)	<0.001	98.2 (2.9)	92.0 (12.7)	<
	Mean(SD) TEMPERATURE, Moon(SD)	18.4 (2.8)	22.9 (10.1)	<0.001	17.7 (2.7) 98.4 (0.8)	22.3 (9.5)	<
e of	Mean(SD)	98.4 (0.9)	97.9 (2.4)			, , , , , , , , , , , , , , , , , , ,	
d April	Abnormal lab Altered mental status	1793 (0.9) 6731 (3.4)	7 (0.7) 65 (6.6)	0.53 <0.001	1386 (1.0) 3389 (2.4)	5 (1.2) 20 (4.6)	0.
	Chest pain	15881 (7.9)	47 (4.7)	<0.001	11540 (8.1)	26 (6.0)	0
9	Dyspnea_respiratory_distress	29925 (15.0)	262 (26.5)	<0.001	20097 (14.1)	132 (30.6)	<
	Fever_chills_infection	8330 (4.2)	41 (4.1)	0.97	6100 (4.3)	13 (3.0)	0
fined	TRIAGE_ACUITY			<0.001			<
ion	1	1653 (0.8)	474 (47.9)		2493 (1.7)	157 (36.3)	
	2	46243 (23.1)	389 (39.3)		29284 (20.5)	197 (45.6)	
ing of	3	111056 (55.5)	125 (12.6)		86686 (60.8)	78 (18.1)	
) and	4	35725 (17.9)	2 (0.2)		23114 (16.2)	0 (0.0)	
) and 1e	5	5332 (2.7)	0 (0.0)		1080 (0.8)	0 (0.0)	

eXtreme Gradient Boosting (XGBoost) obtained excellent performance of AUC (0.926, 95% CI: 0.914-0.936), followed by Category Boosting (CatBoost) classifier (0.923, 95% CI: 0.913-0.934) under 7-fold cross-validation.

The constructed ML models have the potential to predict IHCA in ED and save more lives if successfully implemented in our decision support system.



CONCLUSION





Prognostic Value Of Cardiac Troponin In Patients With Supraventricular Tachycardia In The Emergency Department: A Multi-center Cohort Study

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Introduction

- Supraventricular tachycardia accounts for approximately 50,000 ED visits each year
- Cardiac troponin I (cTnI) elevation indicates underlying heart disease and is known to predict adverse cardiac events.
- •There is limited evidence regarding the prognostic value of cTnl among patients presenting with SVT in the emergency department

Methodology

- Multicenter retrospective cohort study in 15 community EDs in North Texas
- Eligible study subjects were adult patients (age \geq 18 years) presenting with SVT in the ED with serum cTnl testing
- Primary outcome: 30-day Major Adverse **Cardiac Event (MACE)**
- •MACE: Includes acute myocardial infarction, coronary revascularization by PCI, CABG, and all cause mortality

Statistics

• Multivariate logistic regression was performed to examine the factors associated with 30-day MACE and elevated cTnl values

	Odds ratio (95% CI)	<i>p</i> value
Chronic kidney disease	7.33 (1.84–29.30)	0.005
ECG ventricular rate	1.02 (1.00–1.04)	0.018
Mean arterial pressure	0.95 (0.93–0.98)	0.002

	d 95% CI for Risk Facto	rs of Elevated Cardiac T	roponin I in Patients Presenting	Results
with SVT in the ED	Odds ratio (95% CI)	<i>p</i> value		 147 Total patients with SVT with elev
Chronic kidney disease	7.33 (1.84–29.30)	0.005		troponin in 31 patients
ECG ventricular rate	1.02 (1.00–1.04)	0.018		•Elevate troponin (OR 11.97) was
Mean arterial pressure	0.95 (0.93–0.98)	0.002		associated with increased rate of 30-
Table 3. Odds Ratio an	d 95% CI for Risk Facto Odds ratio (95% CI)	rs of 30-Day Major Adve <i>p</i> value	rse Cardiac Event	MACE after SVT
Male gender	10.87 (1.26–94.10)	0.030		 Male gender (OR 10.87) is a risk facto
Elevated troponin ^a	11.97 (2.67–53.67)	0.001		30-day MACE after presenting to the B
^a Elevated troponin is trop		0.001		for SVT
Table 1. Demographic a by Troponin Level		ics of Enrolled Patients P	resenting with SVT in the ED	Conclusion
	No. (%) ^a			
	Overall (<i>n</i> = 147)	Normal Troponin (<i>n</i> = 116) ^b	Elevated Troponin (<i>n</i> = 31) ^b	 Patients who presented to the ER feature
Race				SVT with elevated troponin had a
Asian	3 (2%)	3 (3%)	0 (0%)	higher risk of 30-day MACE when
Black	26 (18%)	20 (17%)	6 (20%)	
White	112 (77%)	88 (76%)	24 (80%)	compared to patients with a norma
Other	4 (3%)	4 (3%)	0 (0%)	troponin level.
Ethnicity				
Hispanic	24 (16%)	18 (16%)	6 (20%)	 In patients with cardiac risk factors,
Non-Hispanic	122 (84%)	98 (84%)	24 (80%)	troponin may be a useful tool to
BMI, median (IQR)	31 (10)	31 (10)	32 (10)	
Tobacco use	59 (40%)	48 (41%)	11 (35%)	determine if a patient should be
Diabetes mellitus	45 (31%)	34 (29%)	11 (35%)	admitted vs discharged home after
Hypertension	91 (62%)	72 (62%)	19 (61%)	treatment for SVT
Coronary artery disease	16 (11%)	11 (9%)	5 (16%)	
Heart failure	25 (17%)	18 (16%)	7 (23%)	Limitations
Cerebrovascular accident	13 (9%)	10 (9%)	3 (10%)	
Chronic kidney disease	13 (9%)	7 (6%)	6 (19%)	• Potrochoctive format of study
Malignancy	23 (16%)	15 (13%)	8 (26%)	 Retrospective format of study
_	(%) unless otherwise indication of 0.05 ng/mL	ated.		 Data collected in North Texas and ma









may S



SOCIODEMOGRAPHIC DISPARITIES IN DOOR-TO-NEEDLE TIME IN ACUTE ISCHEMIC STROKE WITH THE EFFECT OF COVID-19

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INTRODUCTION

Early administration of intravenous (IV) tissue plasminogen activator (tPA) in acute ischemic stroke (AIS) is associated with higher rates of favorable clinic outcomes. The time from emergency department (ED) arrival to initiation of treatment within 60 minutes (door-to-needle time (DTN)<60 minutes) is recommended based on current stroke guidelines.

OBJECTIVES

Determine if sociodemographic disparities affect door-toneedle time in acute ischemic strokes during the COVID-19 pandemic.

METHODS

- Retrospective, multi-center, cohort study conducted in 5 community ED's in North Texas.
- Eligible study subjects were adult patients ≥18 years presenting with SVT in the ED with suspected acute ischemic stroke.
- COVID period was categorized as pre-COVID (before March, 2020), during COVID, and post-COVID (after March, 2022).
- Primary outcome: door-to-needle time<60 minutes upon arrival to the hospital for all patients suspected of acute ischemic stroke.
- T-test and chi-square test were used to analyze continuous and categorical variables, respectively.
- Multivariate logistic regression was performed to examine the associations between independent variables and outcomes.

Patient	All (n= 1,386)	Door to needle	Door to needle	p-value
characteristics		≤60 min (n= 855)	>60 min (n= 531)	
Age (year), mean ±	66±16	67±15	64±16	<0.01
SD				
Sex, n (%)				0.05
Male	699 (50.4)	449 (52.5)	250 (47.1)	
Female	687 (49.6)	406 (47.5)	281 (52.9)	
Race, n (%)				0.94
White	1,056 (76.2)	665 (77.8)	391 (73.6)	
Black	235 (17.0)	138 (16.1)	97 (18.3)	
Asian	22 (1.6)	13 (1.5)	9 (1.7)	
Other	73 (5.3)	39 (4.6)	34 (6.4)	
Hypertension, n (%)	1,165 (84.1)	728 (85.1)	437 (82.3)	0.16
Diabetes mellitus, n	554 (40.0)	322 (37.7)	232 (43.7)	0.03
(%)				
Coronary artery	407 (29.4)	257 (30.1)	150 (28.3)	0.47
disease				
GCS score				0.92
3-8	47 (3.4)	23 (2.7)	24 (4.5)	
9-12	156 (11.3)	95 (11.1)	61 (11.5)	
13-15	1,183 (85.4)	737 (86.2)	446 (84.0)	
COVID status				0.92
Pre-COVID	363 (26.2)	224 (26.2)	139 (26.2)	
COVID	835 (60.3)	523 (61.2)	312 (58.8)]
Post-COVID	188 (13.6)	108 (12.6)	80 (15.1)]

Male patients (OR 0.79; 95% CI 0.63-0.99) were less likely to have DTN >60 minutes compared to female patients. Hispanic patients (OR 1.59; 95% CI 1.16-2.17) were more likely to have DTN >60 minutes compared to non-Hispanic patients. There is no significant difference between different races or COVID periods.

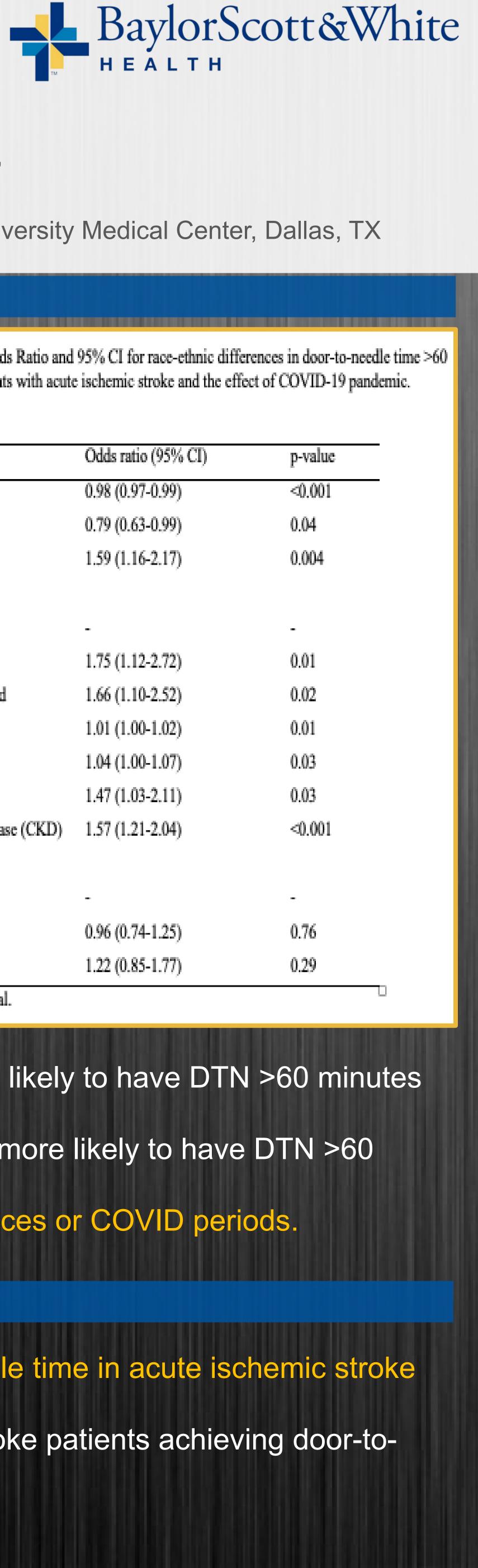
Sex and ethnic disparities were noted in door-to-needle time in acute ischemic stroke patients. COVID-19 pandemic had no significant impact on stroke patients achieving door-toneedle time within 60 minutes based on our cohort.

RESULTS

Table 2. Adjusted Odds Ratio and 95% CI for race-ethnic differences in door-to-needle time >60 minutes among patients with acute ischemic stroke and the effect of COVID-19 pandemic.

•		
	Odds ratio (95% CI)	p-value
Age	0.98 (0.97-0.99)	< 0.001
Male	0.79 (0.63-0.99)	0.04
Hispanic	1.59 (1.16-2.17)	0.004
Insurance		
None	-	-
Commercial	1.75 (1.12-2.72)	0.01
Medicare/Medicaid	1.66 (1.10-2.52)	0.02
Pulse	1.01 (1.00-1.02)	0.01
Respiratory rate	1.04 (1.00-1.07)	0.03
Dementia	1.47 (1.03-2.11)	0.03
Chronic kidney disease (CKD)	1.57 (1.21-2.04)	< 0.001
COVID period		
Pre-COVID	-	-
During COVID	0.96 (0.74-1.25)	0.76
Post-COVID	1.22 (0.85-1.77)	0.29
CI, confidence interval.		

CONCLUSION





VOLUNTARY, PHYSICIAN-DIRECTED UPSTAFFING TO MANAGE INCREASED ED CENSUS

SITUATION

- Baylor Scott & White Medical Center Plano (BSWMC-Plano) has seen significant growth in its ED patient census
- Yearly census is poised to cross into the 30K/year bracket
- Despite that, the department is small enough that day-to-day census lability can be large (from a percentage standpoint) and poses significant staffing challenges
- Additionally, BSWMC-Plano has had definite increases in boarding hours in recent months

DATA

- Weekday float shifts worked per month:
 - January 13
 - February 18
 - March 11
 - April 11
- Decrease in number of expected shifts in March and April due to unexpected staffing adjustment
- Shifts were worked by regular/full time as well as PRN physicians

Nikki Boykin and Alan Weier, MD, Baylor Scott & White Medical Center - Plano

BACKGROUND

- BSWMC-Plano staffs both physicians and APPs
- Half of APP hours are as a provider in triage (PIT)
- Physician shifts:
 - Morning 7A-5P
 - Mid 2P-12A
 - Night 10P-8A
- BSWMC-Plano has 16 standard beds and approximation approximation of the standard beds and approx 10 hall beds available daily, depending on nursing s availability
- Peak patient arrival days and times are similar to of Emergency Departments in the region
- Afternoon hours (mid-shift) are frequently uncomfo busy for patients and providers alike

FINDINGS

- Hours worked were variable and based on Departm needs on a given day (usually 4-6 hours)
- Physicians saw at or above average number of patients/hour while on float shifts (usually 1.8/hour more)
- No attributable improvements to objective through patient experience measures (LBTC, LTR, etc.) identi
 - Possible other unaccounted variables
 - Possible too small a data set
 - Possible no real effect



	INTERVENTION
nately staff	 Flexible, increased physician hours at peak to was needed It did not appear that an additional, full physics shift was warranted based on overall volume It was agreed that a weekday "float shift" stat 12 PM would be offered that had variable duration based on department need Physicians voluntarily assigned themselves to those shifts on a first-come, first-serve basis Plan was to evaluate at later date for effective and unexpected negative consequences Shifts began in January 2023
fortably	

	ANALYSIS		
nent	 Voluntary, physician-directed float shifts: 		
ır or	 Decompressed the transition to busy afternoon hours, made th shifts more manageable 		
hout or	 Reduced stress of the mid shift 		
hput or tified	 Provided opportunity for extra income at physician discretion 		
	 Are rapidly deployable and pro needed flexibility without form "call" schedule 		
	 Provide double-coverage to he or PRN physicians with onboard 		















Seamus Lonergan, MD; Amanda Bradley, NP; Will Huggins, PA

BACKGROUND

- CDC data from 2019 found an estimated 1,189,700 million people aged 13 and older had HIV in the U.S.
- CDC estimates that 13% of people with HIV do not know they have it and 40% of new infections are spread by these same people.
- Texas DSHS reports that EDs account for highest % of new HIV diagnoses.
- Early Diagnosis through ED screening is one way to prevent transmission and slow the epidemic.
- As a critical access point to healthcare for patients in our community, the Baylor University Medical Center(BUMC) ED decided to implement an ED HIV screening program.

IMPLEMENTATION OF HIV TESTING

- Multidisciplinary committee convened: ED providers/nursing, Legal, IT, Lab, Case Management, Infectious Disease, and finance.
- ED providers/nursing: created education program, posters, and referral packets.
- Legal: approved verbal opt out consent plan to be performed by ED providers.
- IT: created EMR BPA based on screening criteria: age 18-65, blood draw, No HIV dx.
- Lab Testing: fourth generation HIV antigen/antibody testing with reflex confirmation.
- Case Management: provided assistance with notification and referral packet information.
- ID-Linkage to care: NTIDC group agreed to next-day follow-up regardless of insurance status.
- Financial support obtained through Gilead Sciences FOCUS award program and funneled through BSW Foundation and finance team.

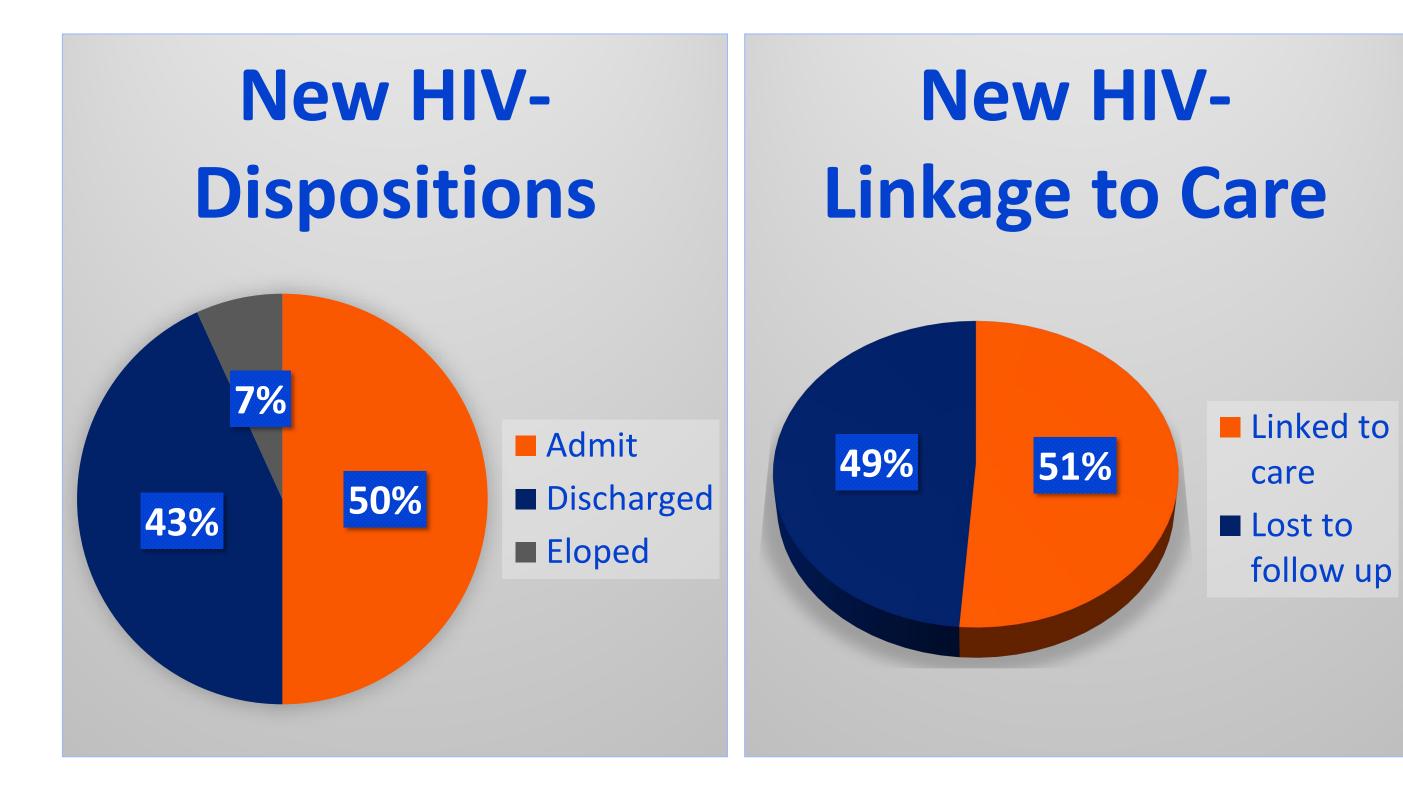
HIV Screening in the ED: A Diagnostic and Linkage to Care Opportunity

RESULTS – 6 MONTHS

BUMC ED HIV SCREENING

New HIV diagnoses ED Census
HIV tests HIV tests, New HIV 7,928, 16% diagnoses, 44, 0.6% ED Census, 49,431

New HIV Demographics W B 22 10 0 2 F



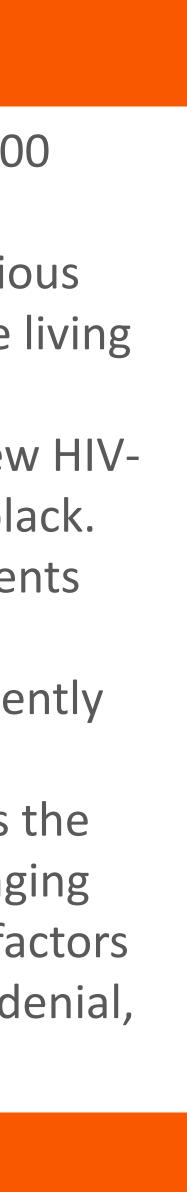
CONCLUSIONS

- We were able to successfully test almost 8000 patients through our ED in 6 months (16%).
- 44 new diagnoses (>7/month) confirm previous research that a large number of patients are living with undiagnosed HIV.
- Demographic data shows the majority of new HIVpositive individuals in our community are black.
- Multiple new diagnoses were made on patients requiring admission for late-stage HIV/AIDS presentations. 3 of these patients subsequently died.
- Diagnosis is important, but linkage to care is the next critical step. Linkage was more challenging than anticipated due to patient-associated factors including homelessness, psychiatric illness, denial, and fear.

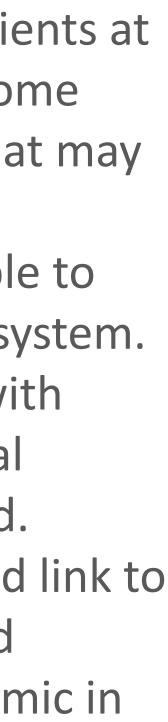
DISCUSSION

- The BUMC ED HIV screening program is unique because most ED HIV screening programs are performed at county and state facilities, as opposed to private hospitals.
- While BUMC ED serves a community of patients at higher risk for HIV, we know all EDs serve some percentage of similarly high-risk patients that may also be living with undiagnosed HIV.
- We would like to make our program available to other Emergency departments in the BSW system.
- A potential cluster of black patients living with undiagnosed HIV was discovered. Additional efforts to provide education may be needed.
- With these efforts to educate, diagnose, and link to care, we hope to decrease transmission and further contribute to slowing the HIV epidemic in the communities that our hospitals serve.











Gordon Aalund MD, Jacquelyn LaRussa MD, Morgen Priest RN, Dennis Hamilton, RJ Johnson

INTRODUCTION

On December 13, 2022 a Tornado caused loss of power at Baylor Scott & White Medical Center at Grapevine. When power failed, one hospital generator did not automatically switch to emergency power due to a mechanical issue. This combined primary and back up power outage affected all hospital operations.

TIMELINE

- **0900** Power loss from Oncor due to tornado damage
- One of the 750 kW generators did not start due to impact of the storm
- The hospital operated on only partial power from one remaining generator
- 0905 Emergency Operations Plan (EOP) activated
- **0930** Command Center set up
- **0945** Grapevine Fire (GF) surveyed damage to hospital campus
- **1000** RAC notified of divert status
- **1151** Hospital closed
- **1511** Partial power restored
- **2050** Generator repaired
- **2054** Hospital issued all clear

ORNA-DON'T MESS WITH TEXAS

Baylor Scott and White Medical Center Grapevine



INITIAL IDENTIFIED PROBLEMS

- No power to the Command Center
- Radios were deployed but were not previously trained on regarding channel usage
- Red emergency phones were functional but needed updated call lists
- Battery-operated systems not charged
- Power Outage Kits (POKs) were not available for all units, especially, clinic locations
- EMS doors initially locked, which required alternate access
- Time for initial damage assessment by GF and delay in allclear for staff
- No fatalities, 11 injured initially to ED



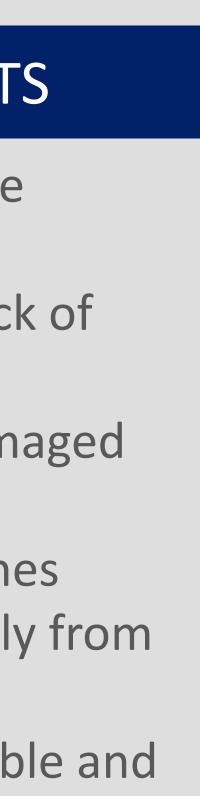


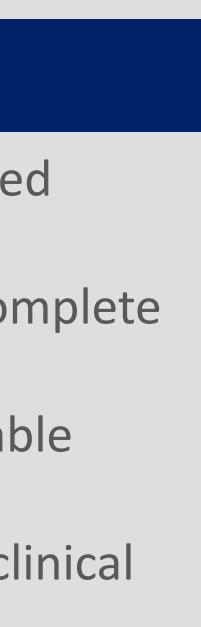
COMBINED POWER LOSS EFFECTS

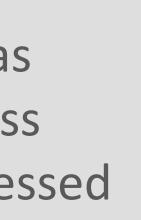
- Parts of the hospital had no power because generator was damaged
- Locked entrances and exits, because of lack of badge access (Omnicells)
- The OR with only partial power due to damaged generator
- There was no power to computers or phones
- There was no lighting in patient rooms, only from hallways and windows
- City power was restored but initially unstable and no back up generator
- Water supply shut down lab

LESSONS LEARNED

- Combined power loss presented unexpected complications
- Portable power and lighting for areas of complete power loss
- Skeleton key for badge doors readily available 24/7 (Omnicells, security)
- Emergency back up power plugs (red) for clinical workstations
- Radios and POKs to all areas
- After-Action Report/Improvement Plan was evaluated at the next Disaster Preparedness Meeting and all identified gaps were addressed











Bert Ridings BSN, TCRN, EMT-P; Jeremy Zobell BSN, MSML; Tiffany Bodetti, BSN;, Mindy Nelson, Med, ATC, LAT; Amy Lary; Terra Rippy BSN, EMT-P; Kim Withrow, BSN; Joshua Mark MD, Eric Daniel, MD, FACEP

INTRODUCTION

BSW Lake Pointe is designated as a Level 3 Trauma Center located in a suburb of the DFW Metroplex. We currently see on average 2900 patients/month with approximately 83 of those being trauma patients. We experienced a 16% increase in overall ED volume from 2021 to 2022. Prior to February 2022 the length of stay for our trauma patients requiring transfer averaged 286 mins (arrival to departure/leaving the facility) with a standard goal of 120 mins. In February 2022 with the hiring of a new Trauma Program Manager we started a PI project to improve the length of stay for our trauma patients requiring transfer to a higher level of care.

INTERVENTIONS

- Simplify/Update activation criteria to increase compliance
- Nursing education on trauma process to decrease time to lab and radiology Including RN transport to CT
- Implementation of a hospital wide trauma activation notification system to ensure necessary parties arrive in a timely manner
- Breakdown of trauma transfers with assigned responsibility
- Triage and transfer policy which clearly identifies injures requiring transfer to a higher level of care
- Involving ED providers to start the transfer process as early as possible
- Opening contracts with multiple EMS providers to help ensure timely transfer
- Working with regional facilities to streamline transfer process and present data to EMS from a regional level
- Adding additional EMS crews including those stationed regionally to reduce transfer times

IMPROVING TRAUMA CARE IN A SUBURBAN LEVEL 3 TRAUMA CENTER

INTERVENTIONS

	IDEA	Date Started	Date Co	
	Review causes of trauma transfer delays with Physicians	February 22	On-	
	Track and trend delays for transfer and report monthly	April 22	On-	
	Breakdown times to determine causes of Delay	April 22	On-	
	Meet with EMS Provider to review trauma transport processes	May 22	Ma	
	Contract new EMS Providers	June 22	Augu	



RESULTS Prior to PI project TAT- 286 minutes Completed -going 2023 Jan-April TAT- 216 minutes -going Arrival to Departure improvement of 70 mins Arrival to Transfer initiation improvement of 46 -going mins ay 22 CONCLUSION gust 22 Caring for trauma patients requires multifaceted processes that involve many people from multiple departments. We have improved our arrival to departure times for our trauma patients requiring transfer by a total of 70 minutes with 46 minutes being improvement in our own internal processes. Breaking down the components of care for trauma patients helps to assign responsibility for delay. It is also a great tool to help programs identify individual contributors of delay instead of attempting to solve the problem as a whole. We have been able to to Depart 110 88

improve our transfer approval to departure 22 minutes by collaborating with regional facilities, existing EMS agencies, and expanding to add new EMS agencies to meet growing transfer needs. This remains our biggest opportunity for improvement and will continue to be a focus. Collaboration between staff and providers from multiple hospital departments, receiving facilities and EMS helps identify and improve delays to provide the best care to our trauma patients.





