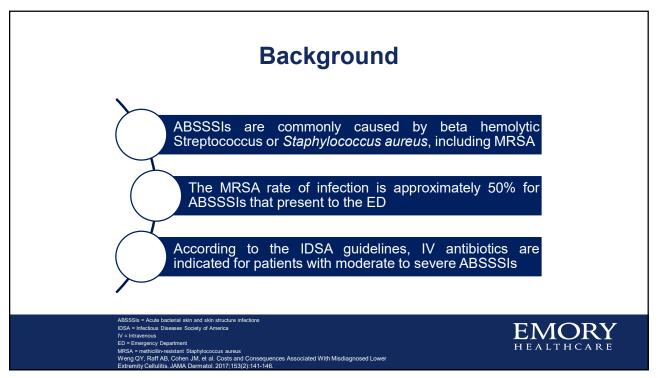




Dalbavancin utilization in the emergency department and impact on hospital admission for acute bacterial skin and skin structure infections

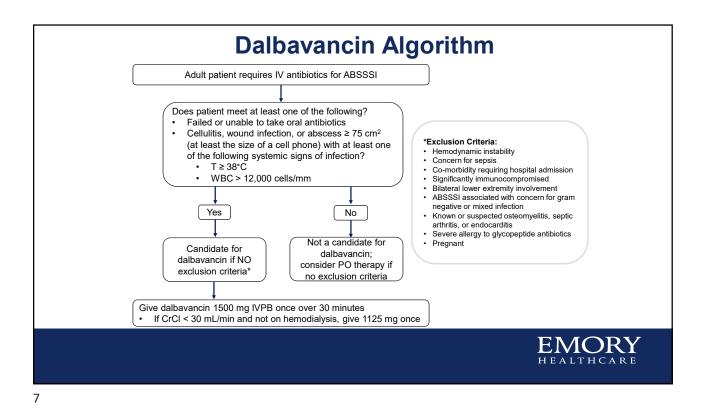
> Ruchi Shah, PharmD PGY-1 Pharmacy Practice Resident Emory St. Joseph's Hospital ruchi.shah@emoryhealthcare.org

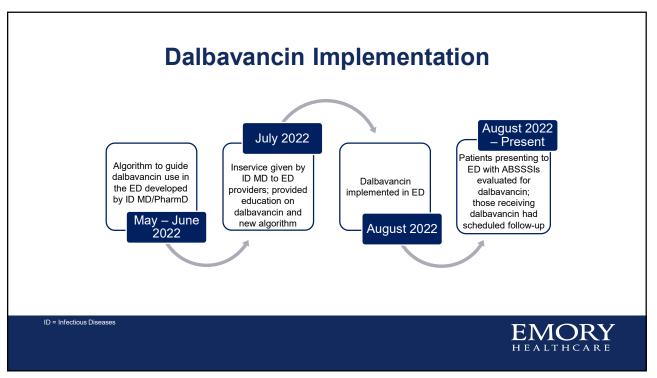
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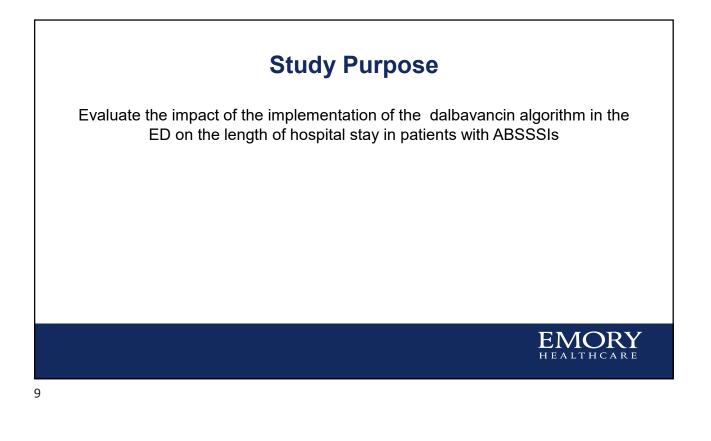


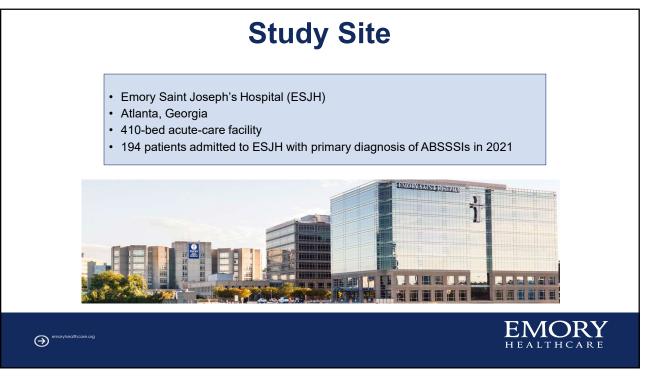
– Hi se – Re	evere MRSA infections equires patient specific	dard for empiric coverage dosing and close monitori		
• Dalba – No		piotic with approximately 1 f ABSSSIs with a single de	•	
Study DISCOVER 1 DISCOVER 2	Primary Endpoint Early clinical response: cessation of spread of 	Inclusion Adults who required at least 3 days of IV antibiotic 	Clinical Impact Dalbavancin found non-inferior to	

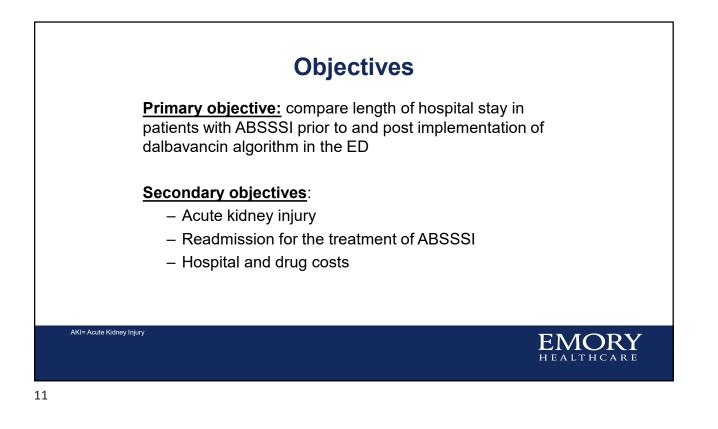
Study	Intervention	Clinical Impact
Talan et. al (2015)	 Preintervention vs. postintervention Standard of care vs. single dose dalbavancin 	 Dalbavancin showed decrease in hospital admission
Koziatek et. al (2018)	 Retrospective cohort Included patients diagnosed with cellulitis and treated with dalbavancin in the ED Primary outcome: cellulitis- related return to the ED within one week of initial ED arrival 	 Decreased hospital length of stay None of the patients who received dalbavancin required hospitalization

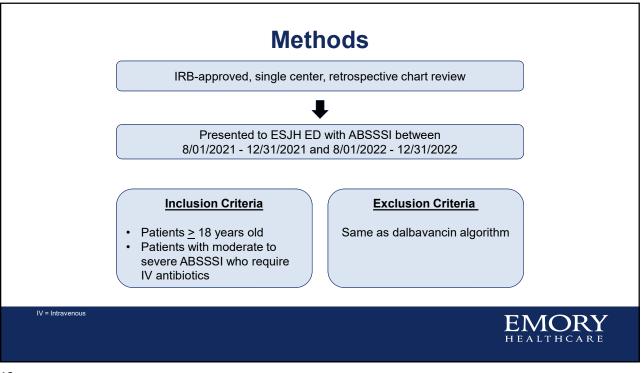


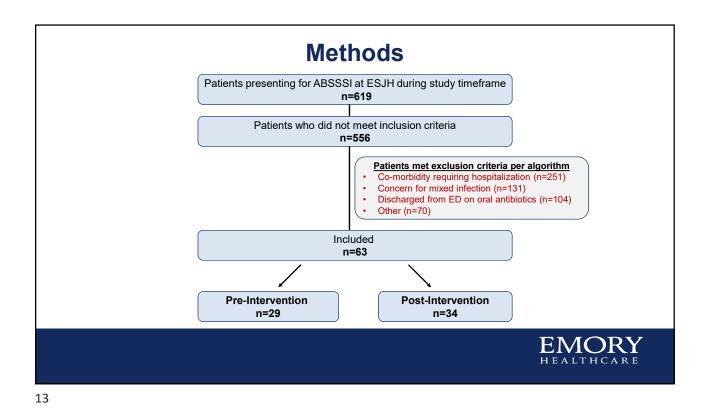


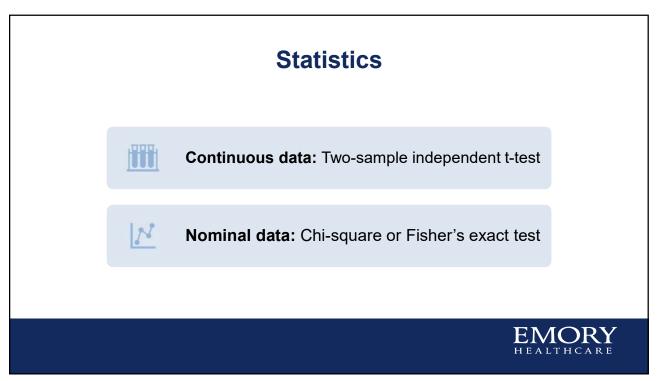






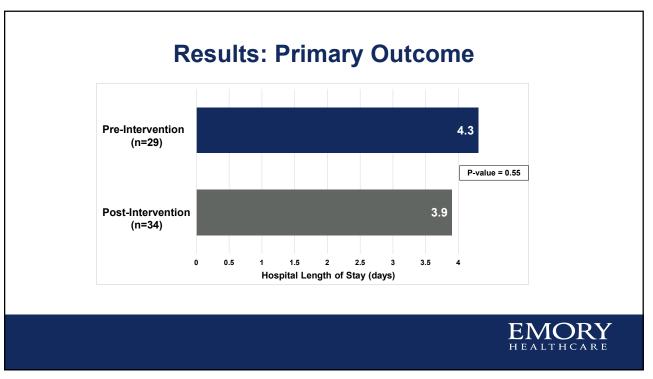


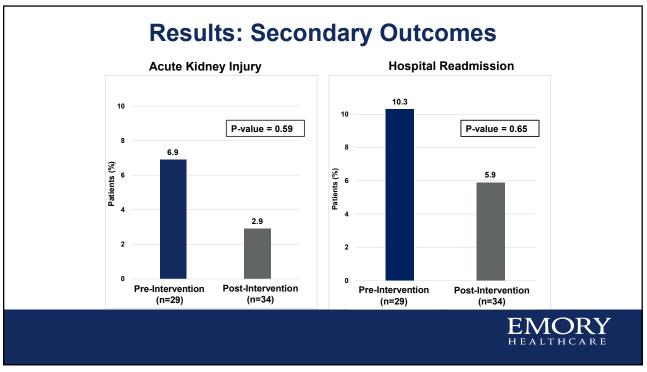


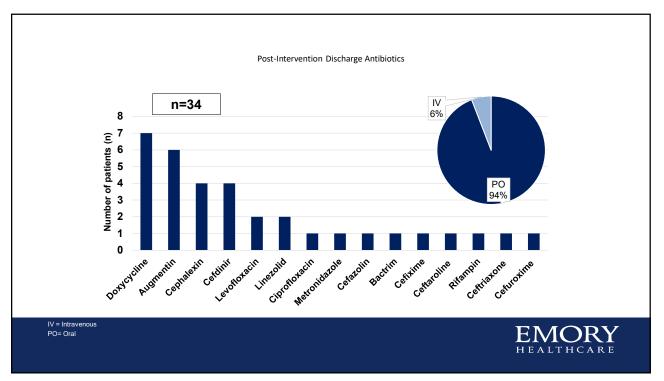


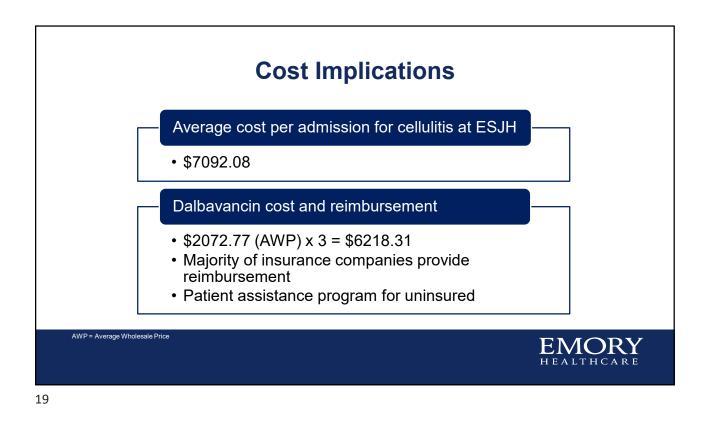
Characteristic	Pre-Intervention (n=29)	Post-Intervention (n=34)	P-value
Sex (male), n (%)	18 (62.1)	14 (41.2)	0.16
Age (years), mean (SD)	62.4 (18.5)	83.4 (124.6)	0.37
BMI (kg/m ²), mean (SD)	29.8 (7.6)	28.0 (6.1)	0.32
Weight (kg), mean (SD)	91.4 (33.5)	82.4 (22.7)	0.23
SCr (mg/dL) on admission, mean (SD)	1.3 (1.4)	1.0 (0.4)	0.27
Heart Failure, n (%)	3 (10.3)	1 (2.9)	0.33
CKD, n (%)	4 (13.8)	3 (8.8)	0.69
Diabetes, n (%)	3 (10.3)	4 (11.8)	0.99
Dalbavancin (n)	1	5	

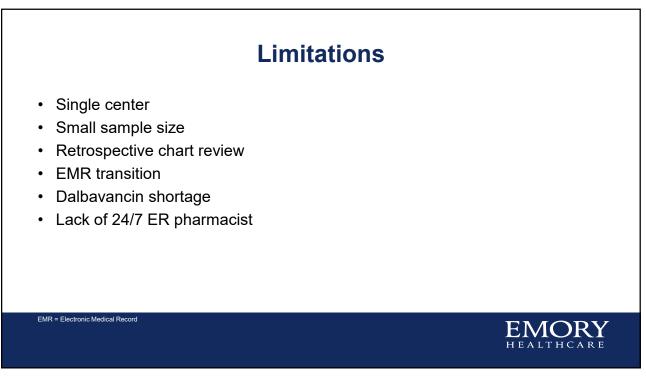


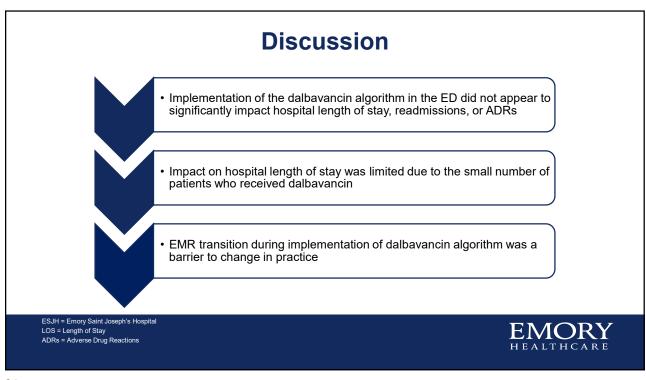




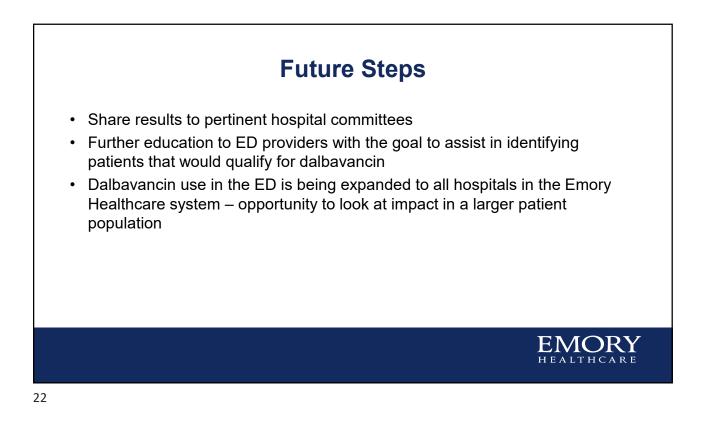




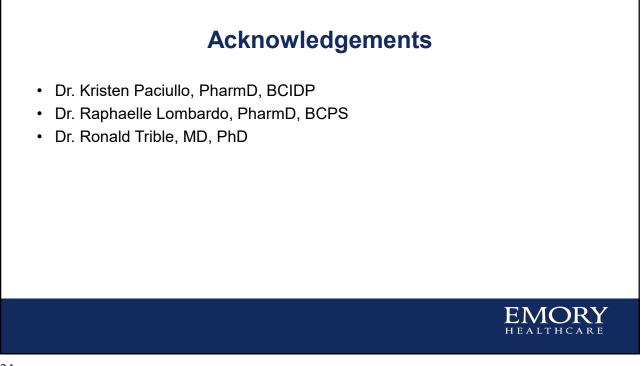








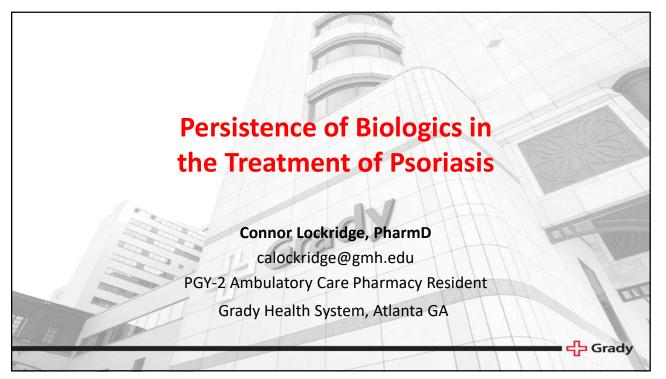
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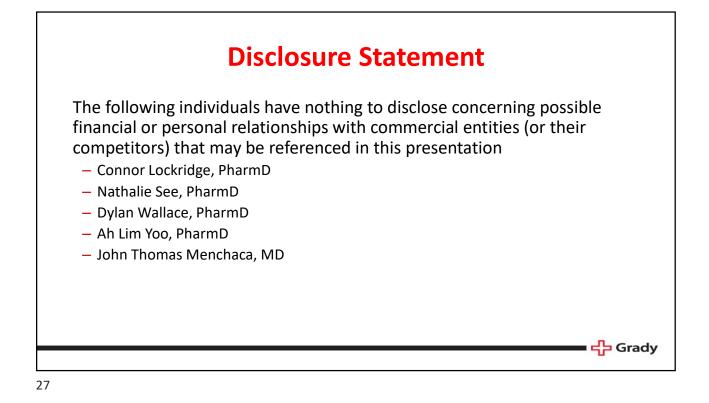




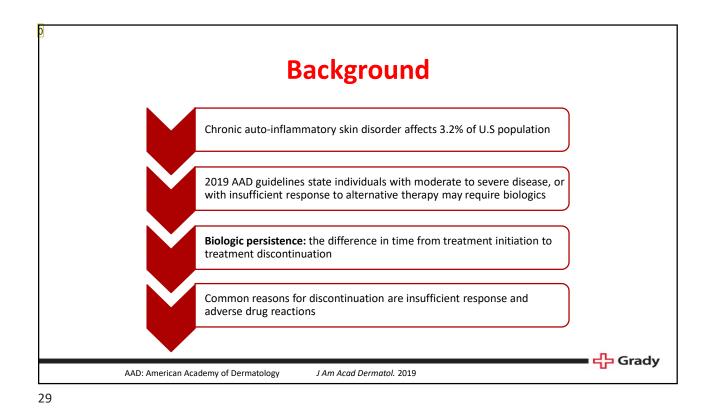
Dalbavancin utilization in the emergency department and impact on hospital admission for acute bacterial skin and skin structure infections

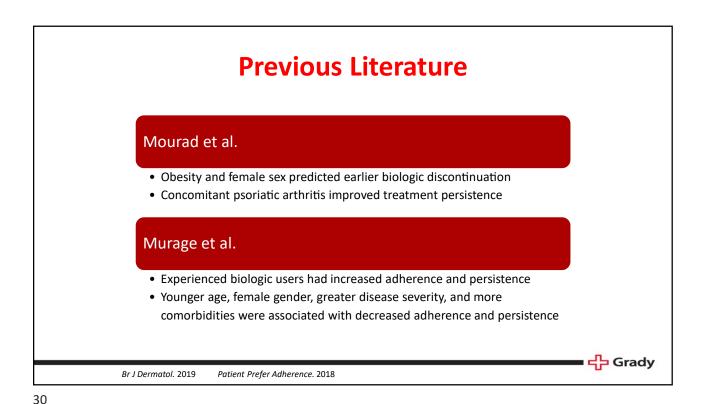
Ruchi Shah, PharmD PGY-1 Pharmacy Practice Resident Emory St. Joseph's Hospital ruchi.shah@emoryhealthcare.org





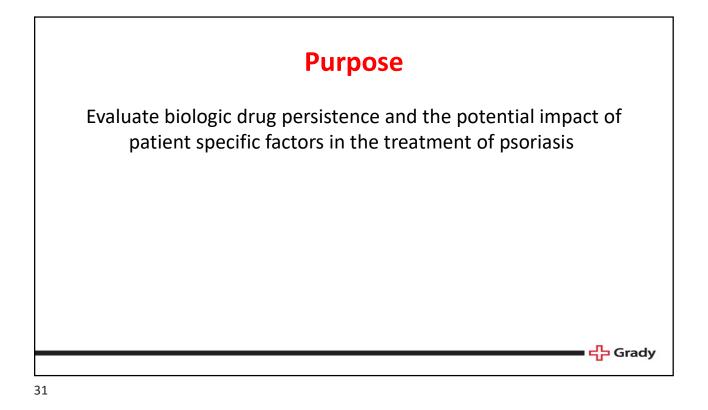


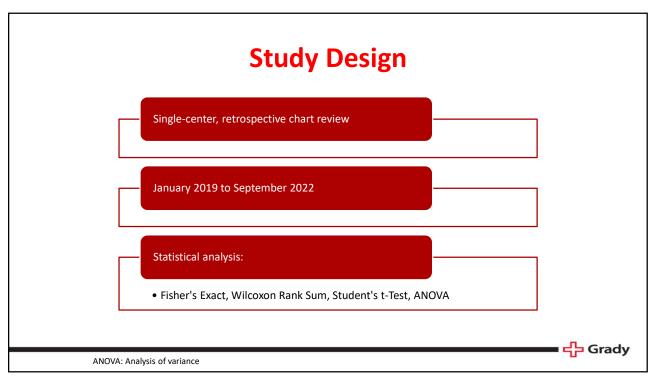


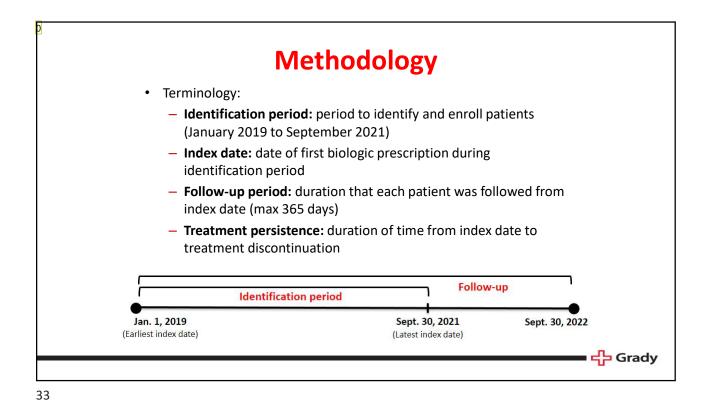


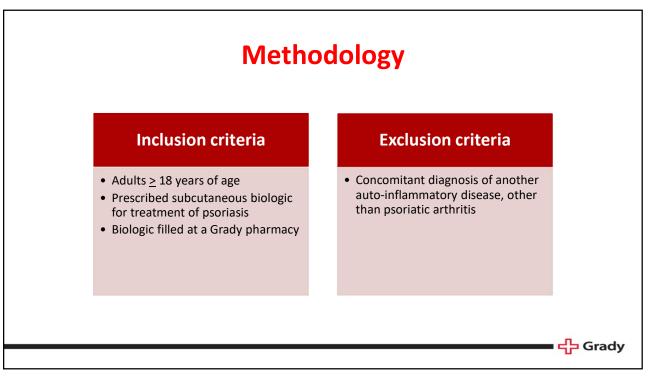
Slide 29

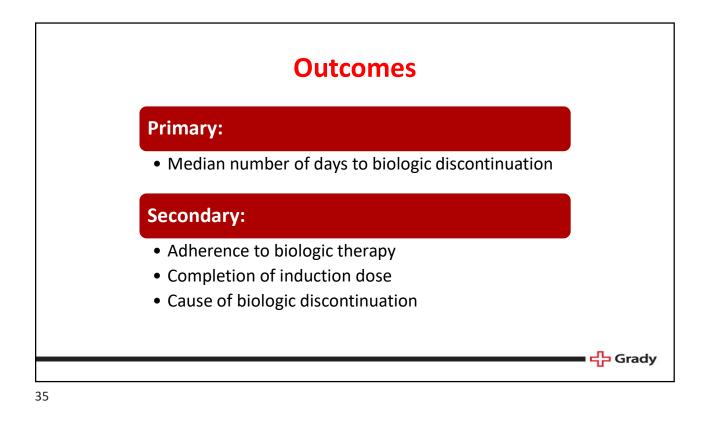
0 I think you need to reorganize the background points a little to make it flow better. I'd have to hear you speak to say for sure. , 2023-03-23T12:50:56.757





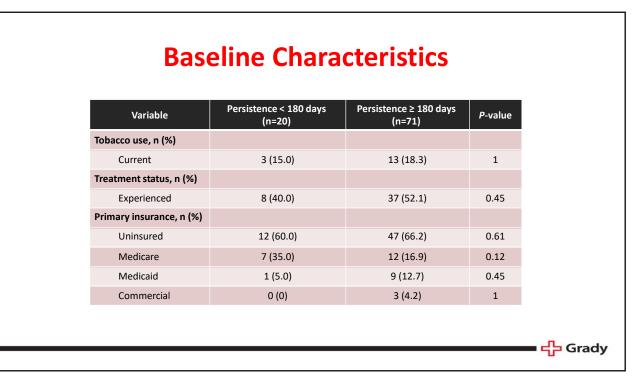


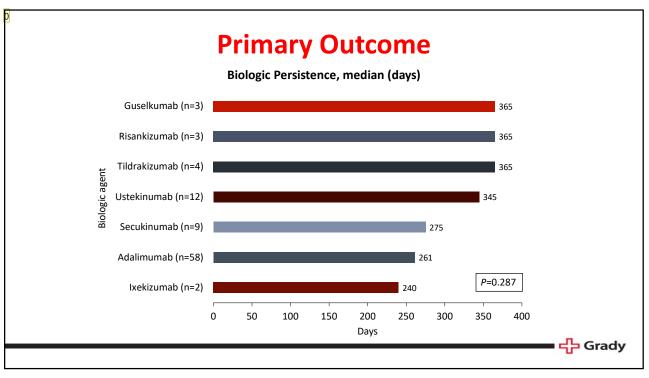




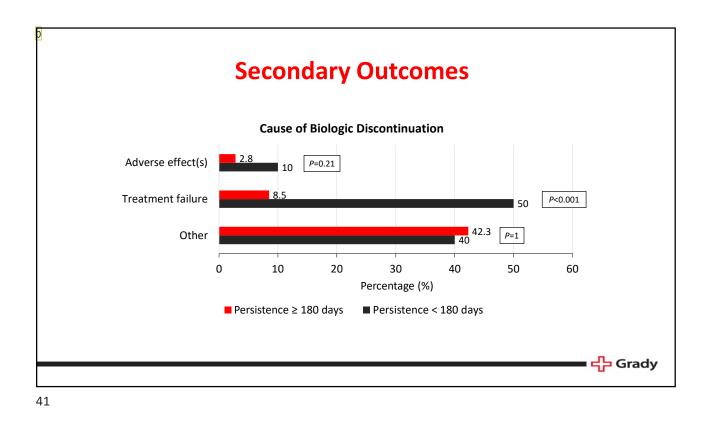
ce ≥ 180 days n=71) <i>P</i> -value
. (12.0)
0 (12.0) 0.63
26.3, 37.8) 0.72
(50.7) 0.80
(54.9) 1
(22.5) 0.77
(15.5) 1
(7.0) 1

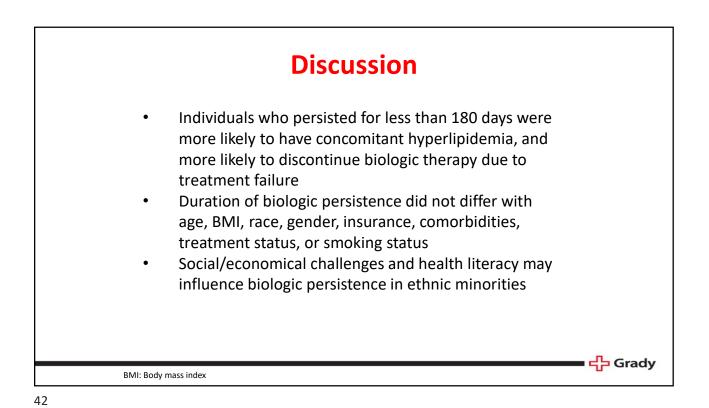
Comorbidities, n (6) Persistence < 180 days (n=20)	Persistence ≥ 180 days (n=71)	P-value
Hypertension	11 (55.0)	39 (54.9)	1
Hyperlipidemia	10 (50.0)	16 (22.5)	0.03
Diabetes	6 (30.0)	19 (26.8)	0.78
Psoriatic arthritis	5 (25.0)	13 (18.3)	0.53
History of CVA/TIA	1 (5.0)	9 (12.7)	0.45
History of MI	0 (0.0)	6 (8.5)	0.33

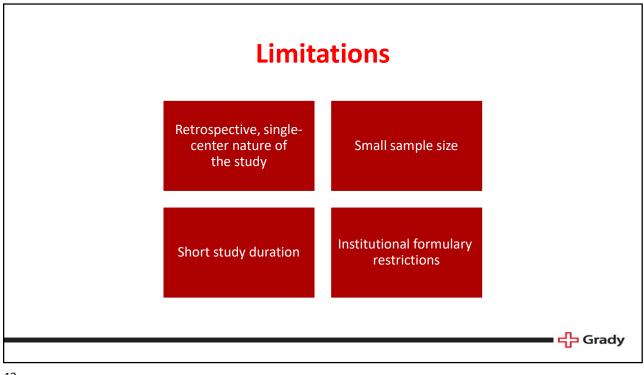


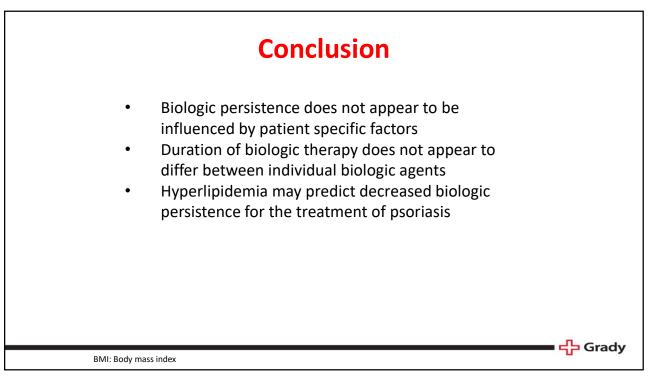


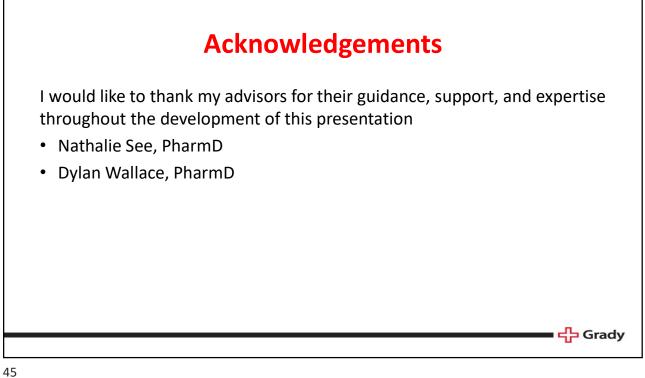
Second	lary Outco	omes	
Variable	Persistence < 180 days (n=20)	Persistence ≥ 180 days (n=71)	P-value
Adherence (PDC), n (%)			
PDC ≥ 80%	12 (60)	41 (57.7)	1
Completion of induction dose, n (%)			
Yes	18 (90.0)	64 (90.1)	1
Cause of biologic discontinuation, n (%)			
Treatment failure	10 (50)	6 (8.5)	<0.001
Adverse effect(s)	2 (10)	2 (2.8)	0.21
Other	8 (40)	30 (42.3)	1
0			
DC: Proportion of days covered			



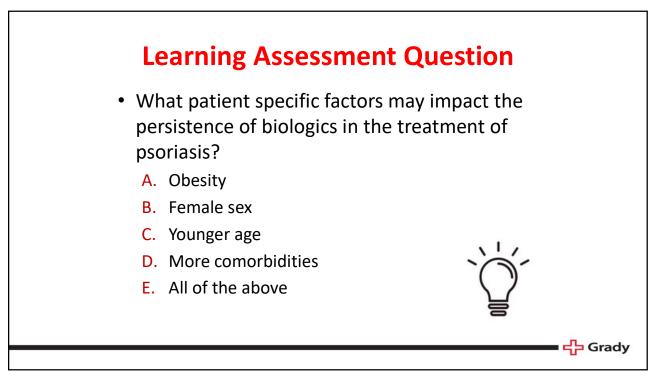


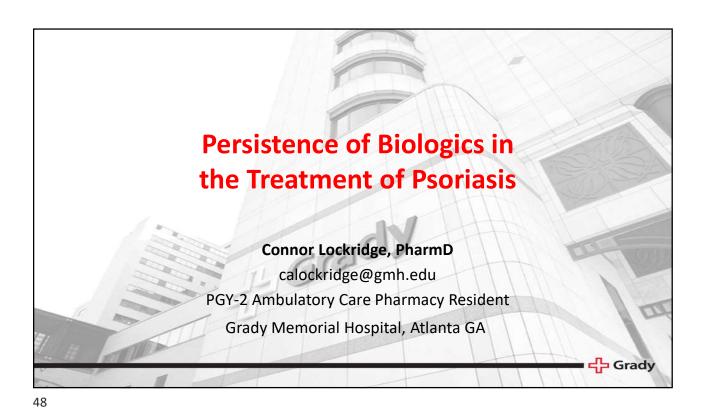


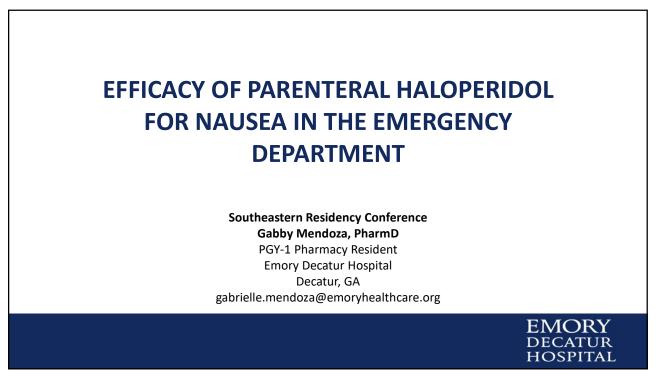


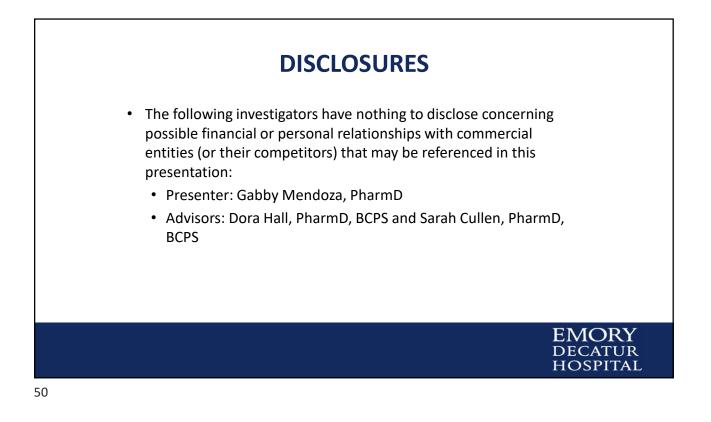


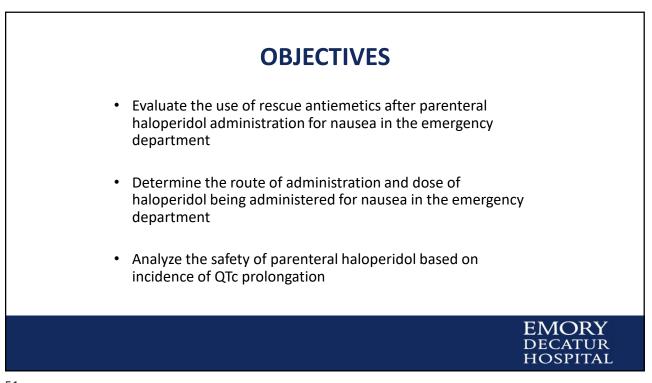


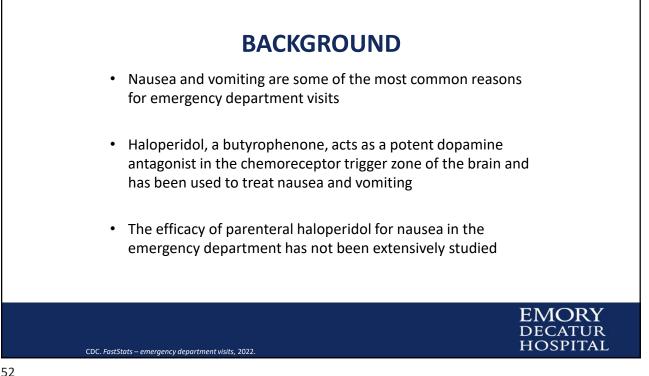








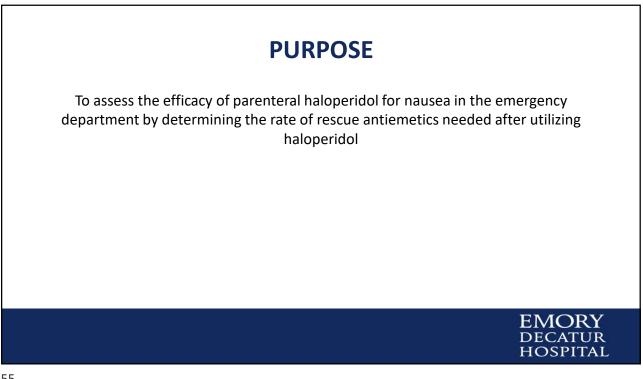


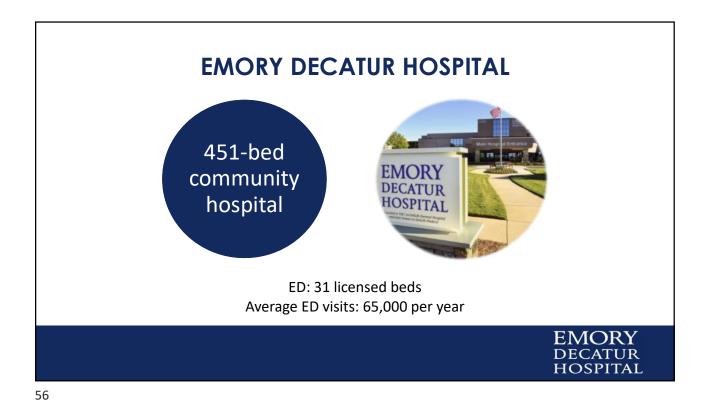


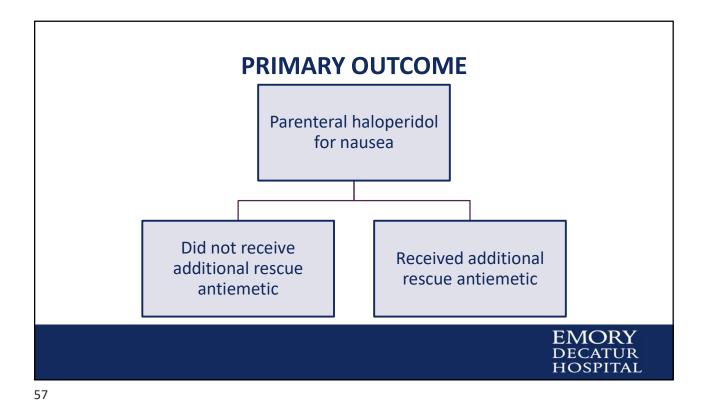
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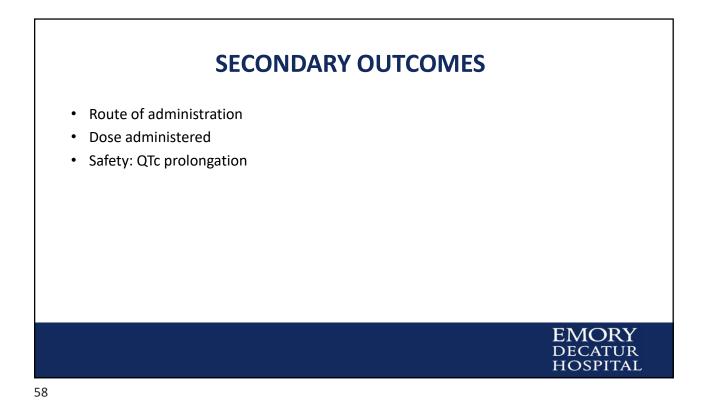
	BACKGROUND		
Title	Haloperidol Use in the Emergency Department for Gastrointestinal Symptoms: Nausea, Vomiting, and Abdominal Pain		
Design	Retrospective chart review		
Inclusion	 Patients ≥18 years in the ED Patients with ICD-10 codes for any of the following: nausea, vomiting, abdominal pain, epigastric pain, abdominal tenderness, gastroparesis, cyclical vomiting, functional dyspepsia 		
Results	 56.6% discharged home vs. 43.2% admitted to hospital Receiving haloperidol as the only medication in the ED led to lower hospital admission (OR = 0.25, P <0.005) Approximately 4.4% of patients developed side effects 		
Conclusion	 Most patients successfully treated and discharged home Haloperidol seemed safe and led to less frequent hospital admissions 		
ED – emergency d	epartment EI		

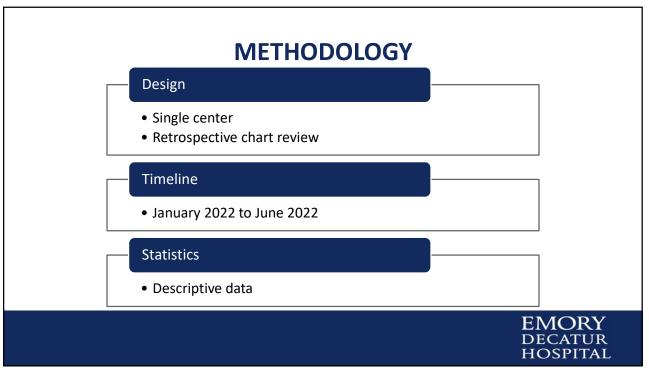
	BACKGROUND	
Title	Intravenous Haloperidol for the Treatment of Intractable Vomiting, Cyclical Vomiting, and Gastroparesis	
Design	Retrospective, case-control, cross-over study	
Inclusion	 Patients with 2+ ED visits for the treatment of intractable vomiting, cyclical vomiting, or gastroparesis that did not receive haloperidol for one visit but did receive it during a previous or subsequent visit 	
Results	 Reduced hospitalization rate in the haloperidol group (OR 0.083, 95% CI, P = 0.004) No adverse effects were documented in the haloperidol group 	
Conclusion	 Haloperidol seems to be an effective adjunctive treatment in the ED for intractable vomiting, cyclical vomiting, and gastroparesis Haloperidol is more effective than traditional care in reducing hospitalization rate 	
Notes	 Most common dose was 5 mg and was typically given as a secondary agent Haloperidol has a long half-life and adverse effects may not be immediately apparent 	











Inclusion

- Adults ≥18 years of age
- Patients receiving IM or IV haloperidol
- ED patients with the ICD-10 codes for:
- nausea and vomiting
- gastroparesis

IM – intramuscular

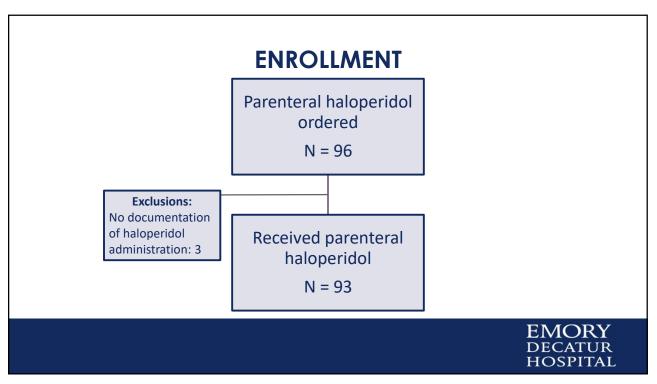
IV - intravenous

- cannabis use without complication
- cyclic vomiting syndrome
- cannabis use with other disorder
- cannabis use with unspecified cannabis-induced disorder

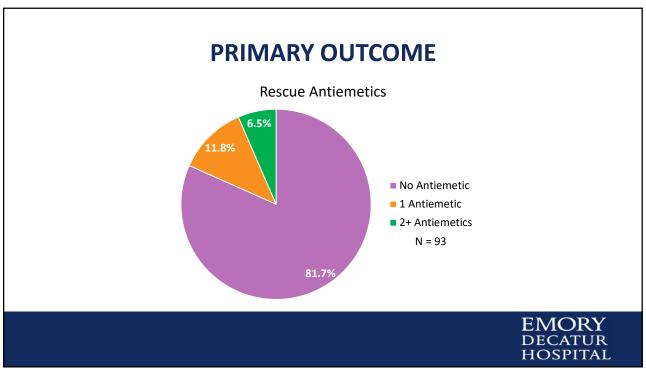
Exclusion

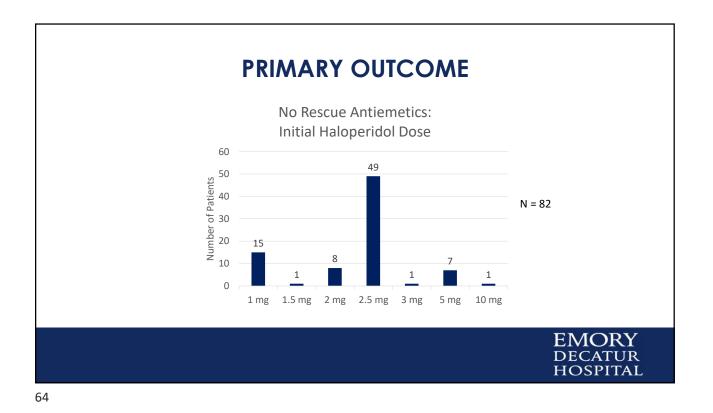
- Patients <18 years of age
- Patients receiving haloperidol decanoate
- Pregnant patients
- Prisoners
- Patients with cognitive disabilities

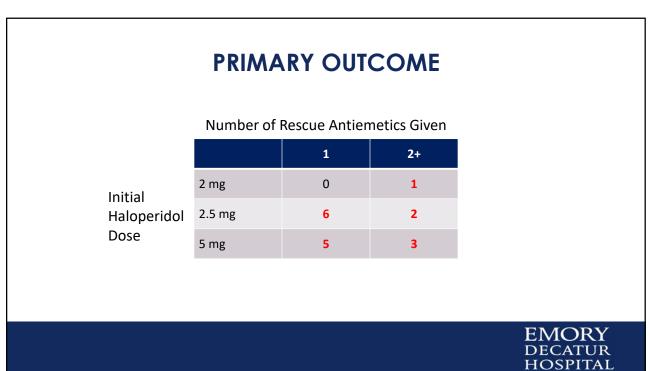




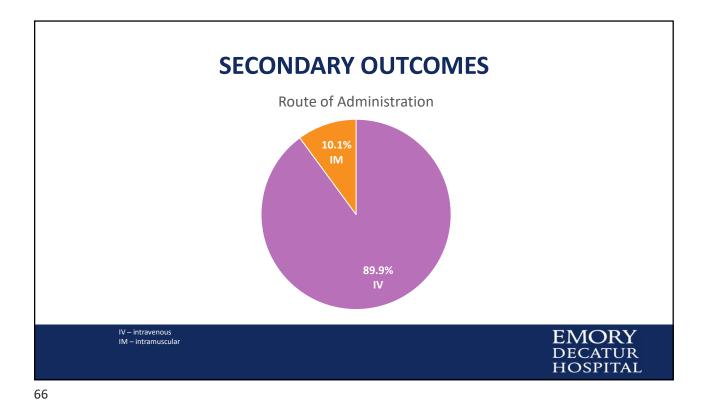
Characteristics	N = 93
an age	35 (17-85)
ender (male)	30 (30.3%)
Race	
African American	80 (86.0%)
Caucasian	11 (11.8%)
Hispanic	1 (1.1%)
Other	1 (1.1%)
Antiemetics Given Before Haloperidol	
None	32 (34.4%)
1	33 (35.5%)
2	28 (30.1%)

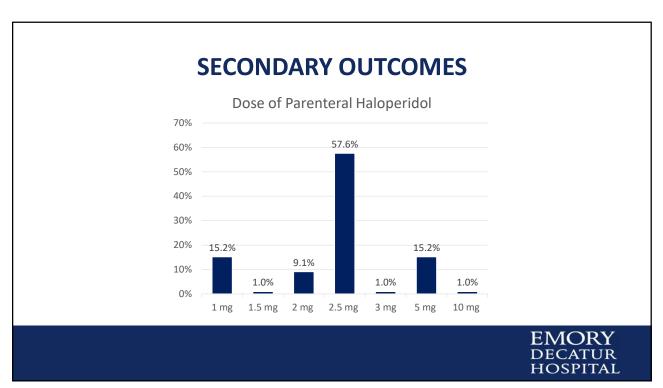


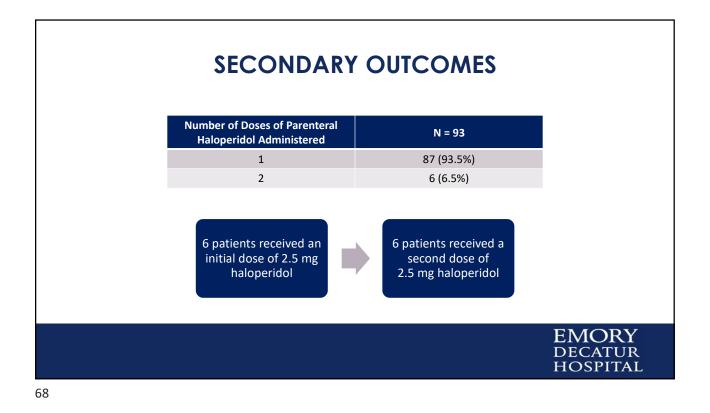


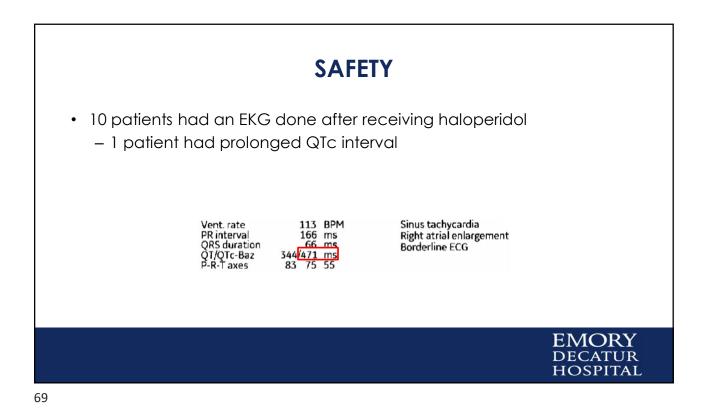


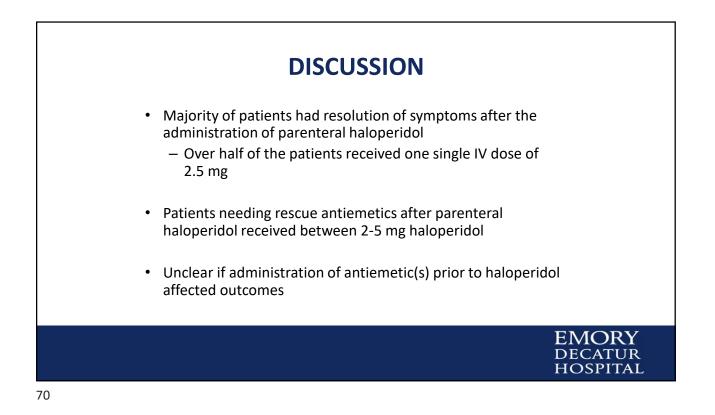
PITAL

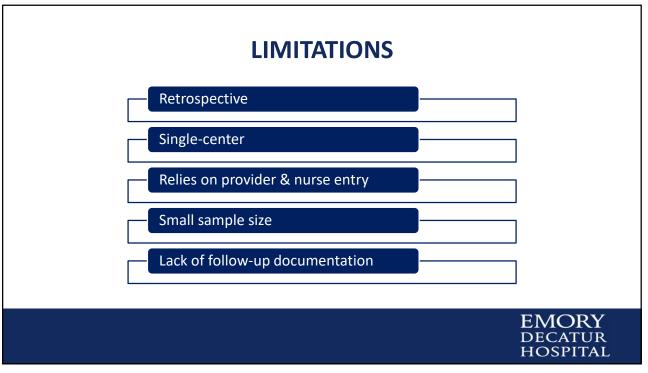


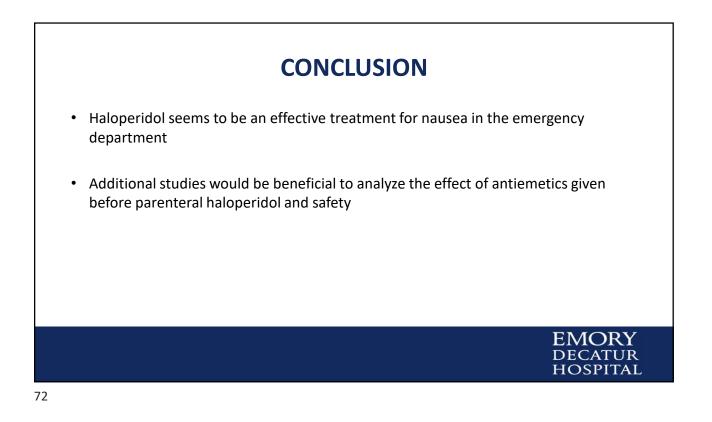


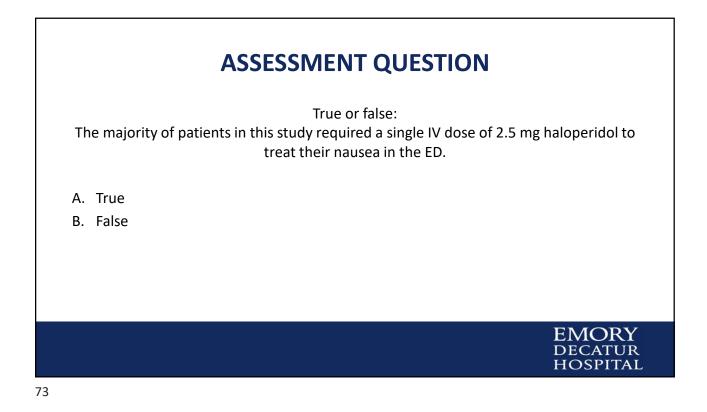












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Dora Hall, PharmD, BCPS Sarah Cullen, PharmD, BCPS Rodna Larson, PharmD





EFFICACY OF PARENTERAL HALOPERIDOL FOR NAUSEA IN THE EMERGENCY DEPARTMENT

Southeastern Residency Conference Gabby Mendoza, PharmD PGY-1 Pharmacy Resident Emory Decatur Hospital Decatur, GA gabrielle.mendoza@emoryhealthcare.org



Piedmont

A retrospective comparison of warfarin versus direct oral anticoagulants (DOACs) for treatment of intracardiac thrombus in hospitalized patients

Madeline Shepherd, PharmD PGY1 Pharmacy Resident Piedmont Atlanta Hospital Atlanta, Georgia

The investigators declare that there are no relevant or material financial interests that relate to the research described here.

Presenter: Madeline Shepherd, PharmD

Advisors: Chelsea Moran, PharmD, BCPS Kristin Fernandes, PharmD, BCPS NaaDede Badger-Plange, PharmD, BCPS Nassim Najafisales, PharmD, BCPS Natalie Morgan, PharmD, BCPS Reena Patel, PharmD, BCPS

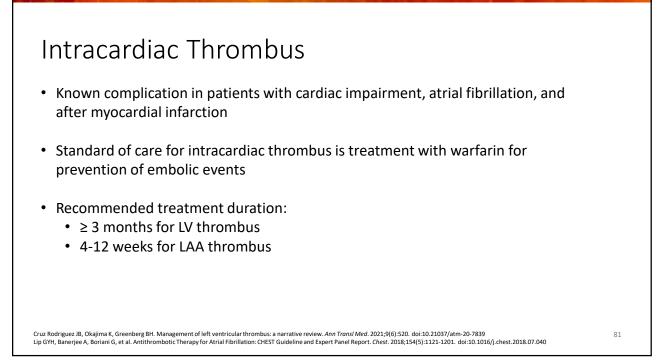
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Piedmont Atlanta Hospital (PAH)

- 600+ bed quaternary care hospital
- Affiliated with Piedmont Healthcare
- Cardiac care:
 - Heart transplantation
 - Left ventricular assist device (LVAD)
 - Extracorporeal membrane oxygenation (ECMO)
 - Level 1 cardiovascular emergency program
 - Advanced electrophysiology and cardiovascular imaging



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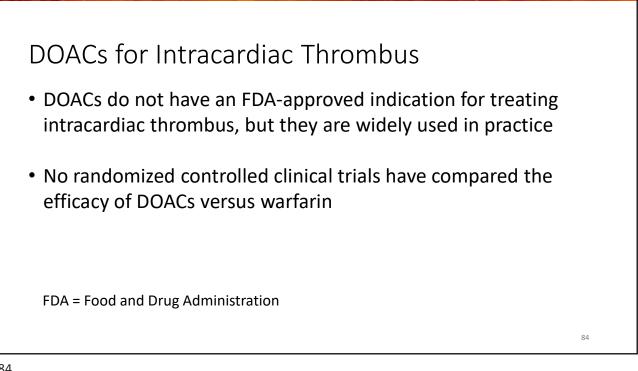




Therapy Comparison

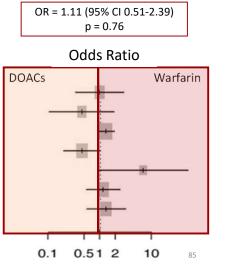
	DOACs	Warfarin		
Monitoring	Regular monitoring not required	Frequent INR monitoring		
Food and Drug Interactions	Fewer drug and food interactions	Many drug and food interactions		
Dosing	Fixed dosing	Variable dosing		
PK Considerations	Rapid onset (hours) Caution in renal impairment	Slow onset (5-7 days) No renal dosing		
DOAC = direct oral anticoagulant; INR = international normalized ratio; PK = pharmacokinetic				
Xarelto (rivaroxaban) [prescribing information]. Titusville, NJ: Janssen Pharmaceuticals Inc; February 2023.; Eliquis (apixaban) [prescribing information]. Princeton, NJ: Bristol-Myers Squibb Company; April 2021.				
	th Wales, PA: Teva Pharmaceuticals USA, Inc; November 2017.	(presenting mormation). Effectivity, to: pristor wyers squibb company, April 2221 82		

	ROCKET AF	ARISTOTLE
Drug studied	Rivaroxaban	Apixaban
Mean CHADS2	3.5	2.1
Treatment Groups	Rivaroxaban Warfarin	Apixaban Warfarin
Primary Efficacy Endpoint	Rivaroxaban noninferior to warfarin	Apixaban superior to warfarin
Safety	Major bleeding similar Increased risk of GI bleeding with rivaroxaban	Major bleeding significantly lower with apixaban

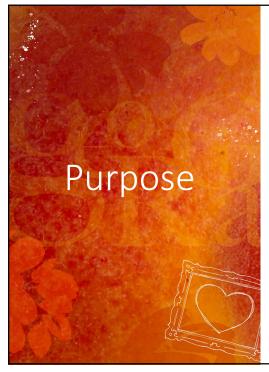


Warfarin versus DOACs for treating left ventricular thrombus: a systematic review and meta-analysis

	DOAC Group		DOAC Group Warfarin Group		n Group
Study	Thrombus resolution	Total	Thrombus resolution	Total	
Daher et al	12	17	30	42	
Jaidka et al	10	12	25	37	
Robinson et al	56	121	131	236	
Jones et al	33	41	38	60	
Yunis et al	62	64	200	200	
Ali et al	18	32	37	60	
lqbal et al	13	22	42	62	



Dalia T, Lahan S, Ranka S, et al. Warfarin versus direct oral anticoagulants for treating left ventricular thrombus: a systematic review and meta-analysis. Thromb J. 2021;19(1):7. Published 2021 Feb 1. doi:10.1186/s12959-021-00259-w

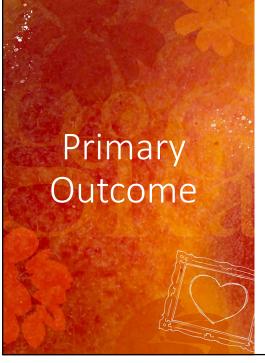


Compare the efficacy of warfarin versus DOACs for the treatment of LV and LAA thrombus and to characterize their safety profiles

Methodology

- Single-center
- Retrospective chart review
- January 1, 2018 February 1, 2023
- Statistical analysis
 - Continuous variables: two-sided Student's t-test
 - Categorical variables: Fisher's exact test

lethodology	
Inclusion	Exclusion
 Adults age ≥ 18 years Patients with LV or LAA thrombus diagnosed by imaging who were treated with warfarin, apixaban, or rivaroxaban 	 No repeat imaging* within 1 year of diagnosis Patients who switched or discontinued anticoagulants Surgical thrombectomy Left ventricular assist device (LVAD), mechanical valve(s), or moderate to severe mitral stenosis



Resolution of LV or LAA thrombus confirmed by repeat imaging at six months

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Secondary Outcomes

- Length of hospital stay
- Incidence of ischemic stroke*
- Incidence of systemic embolic events*
- Incidence of major bleeding as defined by the ISTH*
- Incidence of clinically relevant non-major bleeding as defined by the ISTH*
- All-cause mortality at 12 months
- Resolution of thrombus within 6 to 12 months

*While on therapy and within 12 months of starting anticoagulation

ISTH = International Society on Thrombosis and Haemostasis

ISTH Definitions

Major Bleeding

- Fatal bleeding
- Bleeding in critical area or organ (intracranial, intraspinal, retroperitoneal, pericardial, etc.)
- Bleeding causing fall in hemoglobin of ≥ 2 g/dL or leading to transfusion of ≥ 2 units of blood

Clinically relevant non-major bleeding

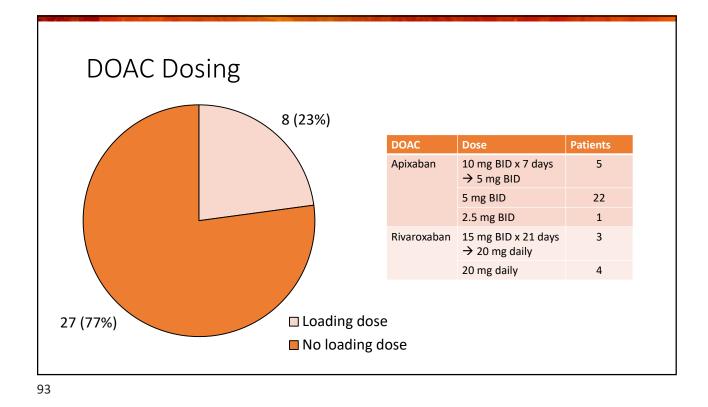
- Medical intervention by a healthcare professional
- Hospitalization or increased level of care
- Face to face evaluation

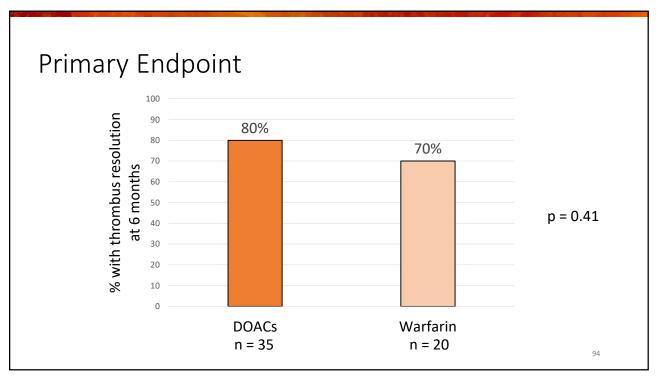
Kaatz, S, Ahmad, D, Spyropoulos, AC, Schulman, S, for the Subcommittee on Control of Anticoagulation. Definition of clinically relevant non-major bleeding in studies of anticoagulants in atrial fibrillation and venous thromboembolic disease in non-surgical patients: communication from the SSC of the ISTH. J Thromb Haemost 2015; 13: 2119– 26.

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Patient Demographics

	DOACs N = 35	Warfarin N = 20	P-value
Male	29 (83%)	15 (75%)	0.49
Age, years	61.7	60	0.68
LAA thrombus	16 (46%)	2 (10%)	0.006
LV thrombus	19 (54%)	18 (90%)	0.006
Comorbidities			
Myocardial infarction	11 (31%)	9 (45%)	0.32
HFrEF	22 (63%)	15 (75%)	0.37
Atrial fibrillation	18 (51%)	4 (20%)	0.022
Stroke or TIA	7 (20%)	5 (25%)	0.67
HFrEF = Heart failure with reduced ejection fraction; TIA = transient ischemic event 92			





Secondary Endpoints

	DOACs N = 35	Warfarin N = 20	P-value
Average length of hospital stay	5 days	8.2 days	0.13
Ischemic stroke*	1 (3%)	0 (0%)	0.45
Embolic events*	1 (3%)	1 (5%)	0.69
Major bleeding*	0 (0%)	2 (10%)	0.19
Clinically relevant non-major bleeding*	1 (3%)	2 (10%)	0.11
All-cause mortality at 12 months	4 (11%)	2 (10%)	0.87
Thrombus resolution at 6-12 months	4 (11%)	1 (5%)	0.43
*While on therapy and within 12 months of starting anticoagulation			

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Conclusions

DOACs

- Higher percentage of resolution of thrombus at 6 months
- Higher percentage of resolution of thrombus between 6 and 12 months
- One incidence of ischemic stroke

Warfarin

- Longer length of stay
- Higher incidences of major and clinically relevant nonmajor bleeding

Discussion

- One patient in DOAC group with ischemic stroke
 - Cardioembolic stroke 4 days after starting DOAC
 - Attributed to large apical LV thrombus
 - Loading dose used
- Longer length of hospital stay in warfarin group
 - Affected by time to reach therapeutic INR
- Both major bleeding events in warfarin group
 - Two gastrointestinal bleeds requiring readmission

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Limitations

- Single-center, retrospective chart review
- Limited sample size
- Lack of quantifiable documentation of size of thrombus
- Lack of standardized timing for follow-up imaging
- Variability in DOAC dosing
- Lack of documented time in therapeutic range for warfarin
- Variability in type of imaging used

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Future Directions

- A randomized controlled trial is needed to evaluate the efficacy and safety profiles of DOACs versus warfarin for treatment of intracardiac thrombus
- Present results to cardiology/electrophysiology team
 - Work with cardiology team to arrange follow-up imaging at predetermined times in future studies

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Self Assessment Question

True or False:

DOACs are as effective as warfarin for resolution of intracardiac thrombus.

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Piedmont

A retrospective comparison of warfarin versus direct oral anticoagulants (DOACs) for treatment of intracardiac thrombus in hospitalized patients

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AFE? It's A-OK!: A Review of Amniotic Fluid Embolism and Treatment

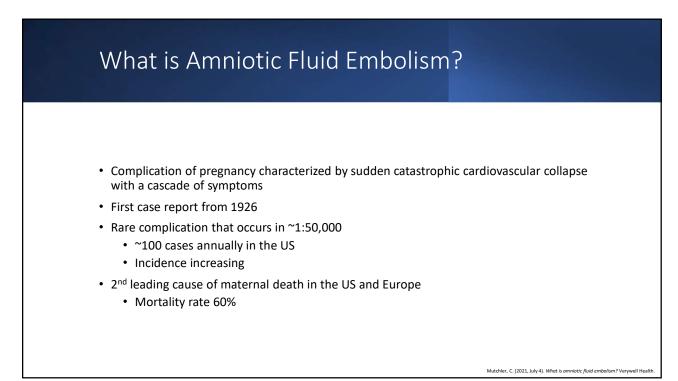
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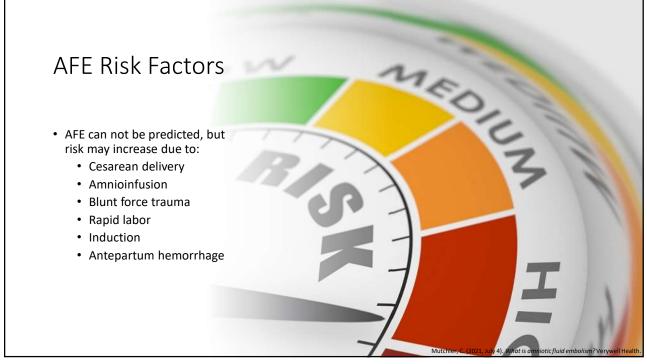


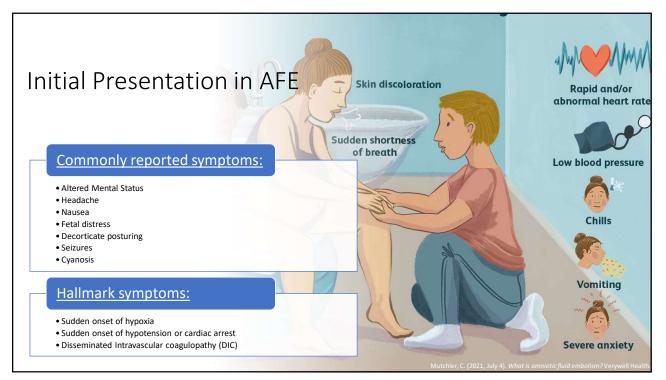
Abb	previations	
	ACLS	Advanced Cardiac Life Support
	AFE	Amniotic Fluid Embolism
	CPR	Cardiopulmonary Resuscitation
	DIC	Disseminated Intravascular Coagulopathy
	DVT	Deep Vein Thrombosis
	ECMO	Extracorporeal Membrane Oxygenation
	FFP	Fresh Frozen Plasma
	G	Gravidity
	INR	International Normalized Ratio
	MI	Myocardial Infarction
	Р	Parity
	PE	Pulmonary Embolism
	PLT	Platelets
	PRBC	Packed Red Blood Cells
	PT	Prothrombin Time
	PTT	Partial Thromboplastin Time
	ROSC	Return of Spontaneous Circulation

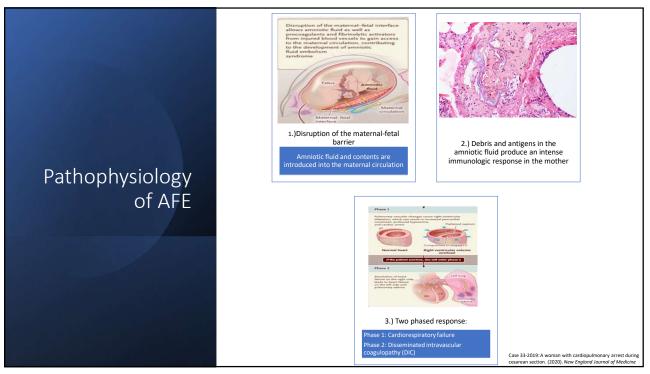
Objective

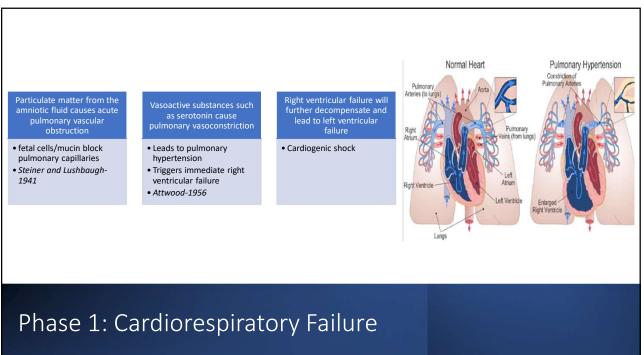
Identify factors that may require early, aggressive intervention in amniotic fluid embolism











Pulmonary hypertension. ACHA. (n.d.)

Widespread microthrombi Consumptive coagulopathy • Platelets consumed • Fibrinogen consumed • Prolonged PT and APTT Uncontr	ollable bleeding Thromboxane A2 Multi-Organ Damage
DISSEMINATED INTRAVASCULAR	Laboratory Findings in Acute DIC
COAGULATION (DIC) RARE but LIFE-THREATENING CONDITION	Laboratory Findings in Acute DIC - Platelet Count - Fibrinogen Laboratory Findings in Acute DIC
	- PT (INR) ↑ - PTT ↑
* ACCELERATED CLOTTING within BLOOD VESSELS & CLOTTING FACTORS BLEEDING	- D-dimer ↑
Phase 2-DIC	Disseminated intravascular coagulation (DIC). Mount Sinai Health System. (n.d.).

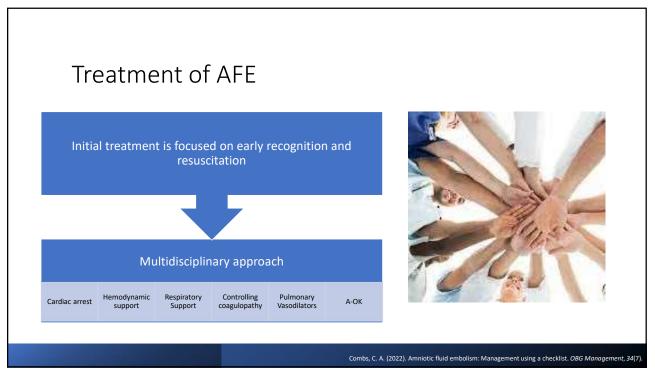


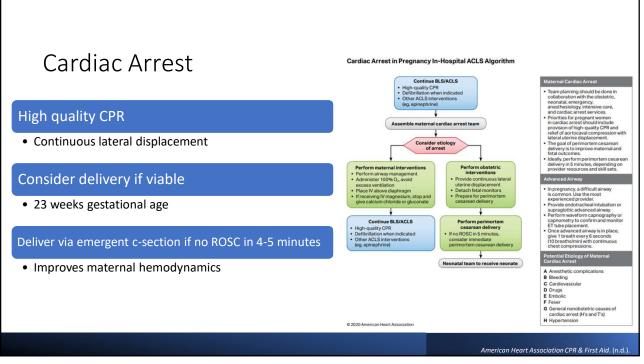
Survivability

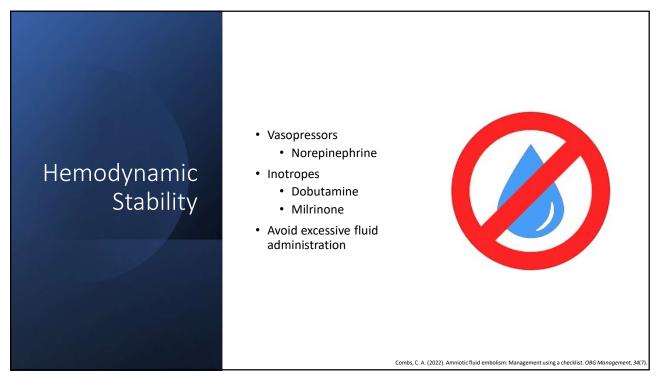
• Dependent upon several factors:

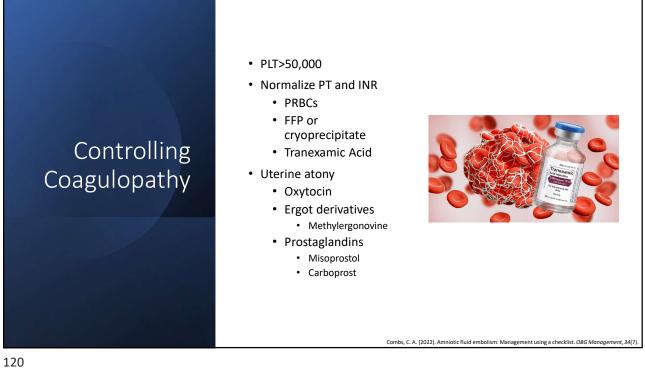
- Variability in immune response
- Delivery location (home, birth center, hospital)
- Type of hospital and level of services (critical care, NICU, OB, etc.)
- Timing of event-before or after delivery
- Immediacy of recognition and aggressive treatment

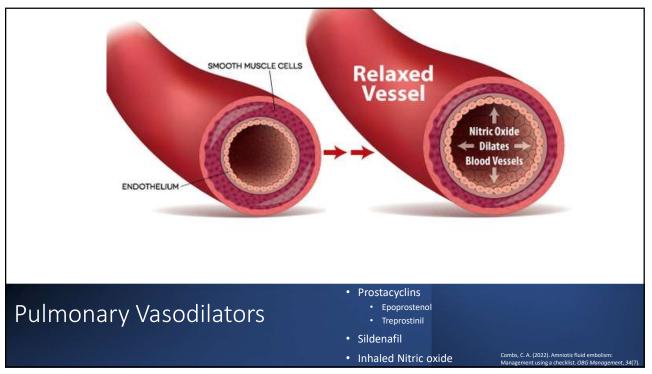


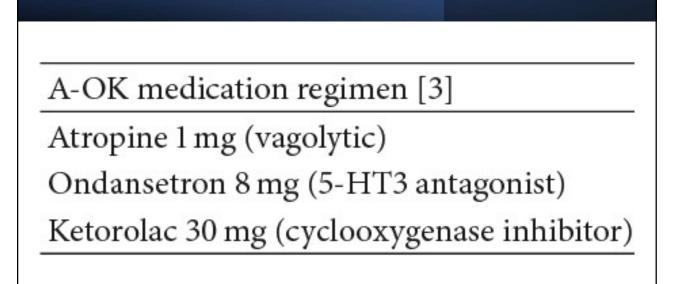








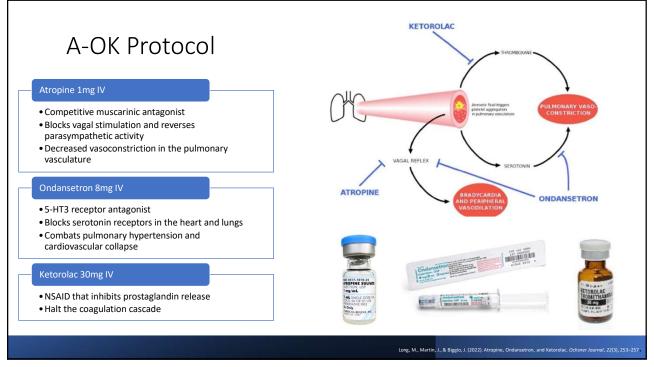




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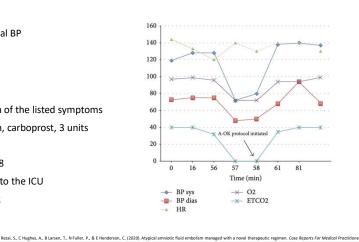
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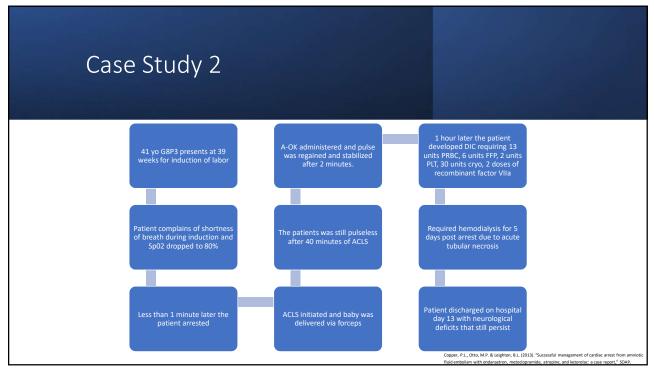
What is A-OK?

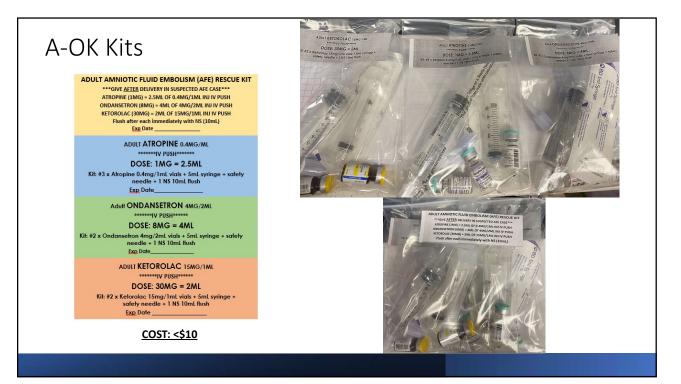


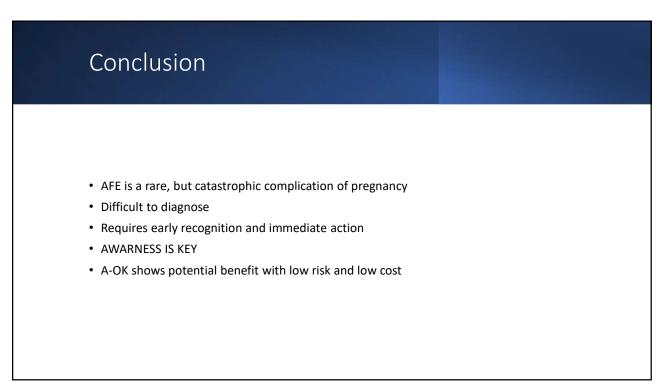
Case Study 1

- 26 yo G2P1001 at 38+1, BMI 41, gestational diabetes
- Presented to ED with SOB, T: 39 fever-O2 sats 97%, normal BP
 Started on fluids and ABX for suspected sepsis
- · Underwent stat primary low transverse c-section
- BP dropped to 72/48 and O₂ dropped to 72%
 End tidal CO2 fell from 32 to 0
- The anesthesia team initiated A-OK protocol within 1 min of the listed symptoms
- EBL: 2L; Uterine atony/hemorrhage treated with oxytocin, carboprost, 3 units
- PRBC, 1 unit of FFP, and 3.5L IV fluids
- Within 3 minutes sats recovered to 97% and BP to 138/68
- Once stabilized, she remained intubated and transferred to the ICU
- No evidence of PE, DVT, or DIC-no changes in PT, PTT, INR
- The patient was extubated postop day 1 and discharged postop day 3









Learning Assessment Questions

What are the two phases of AFE?

- A. Cardiorespiratory failure and DIC
- B. Sepsis and shock
- C. DIC and PE
- D. Cardiorespiratory failure and renal failure



AFE? It's A-OK!: A Review of Amniotic Fluid Embolism and Treatment

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