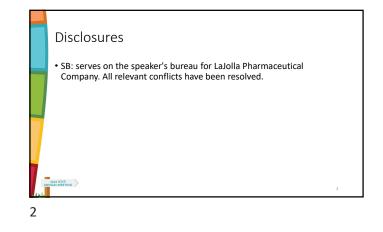
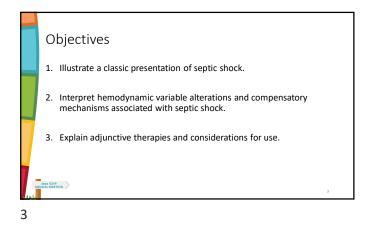
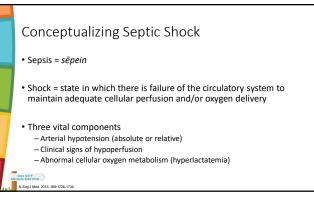
# **I'm Shocked: Adjunctive Vasoactive Therapies in Septic Shock Scott Benken, Pharmo, MHPE, BCPS-AQ Cardiology, FCCM, FCCP** MCU Clinical Pharmacist, Clinical Associate Professor University of Illinois Chicago, College of Pharmacy

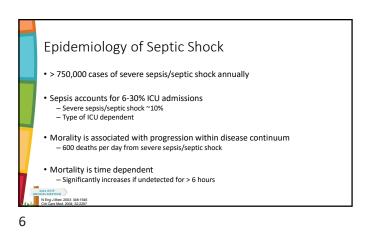


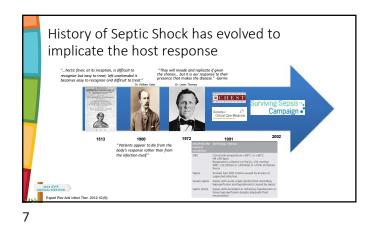


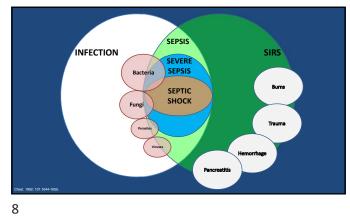
# AUDIENCE ENGAGEMENT ACTIVITY #1 Framing of Outcomes in Septic Shock

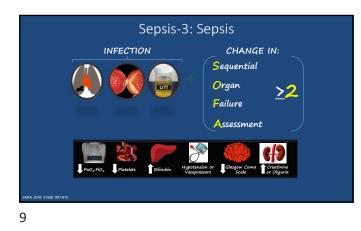
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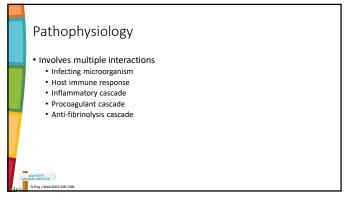




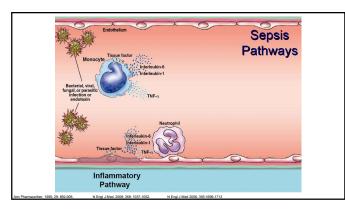


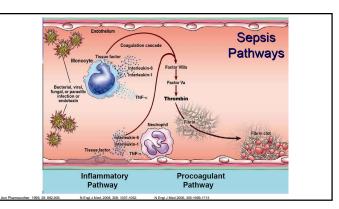


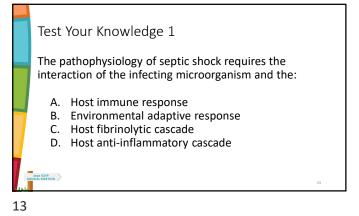


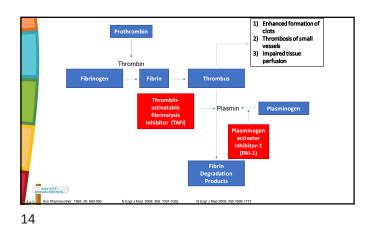






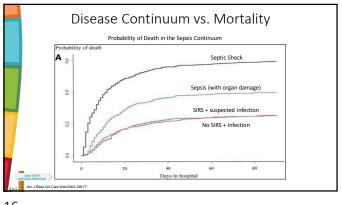




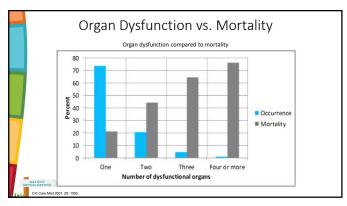


ORGAN		SEQUENTIAL ORGAN FAILURE ASSESSMENT SCORE				
	0	1	2	3	4	
cv	MAP <u>&gt;</u> 70 mmHg	MAP < 70 mmHg	DA < 5 or DB	DA 5.1-15 or EPI/NE <u>&lt;</u> 0.1	DA > 15 or EPI/NE > 0.1	
RESP (PaO <sub>2</sub> :FiO <sub>2</sub> )	<u>&gt;</u> 400 mmHg	< 400 mmHg	< 300 mmHg	< 200 mmHg w/ support	< 100 mmHg w/ support	
RENAL -SCr -UOP	< 1.2 mg/dL	1.2-1.9 mg/dL	2-3.4 mg/dL	3.5-4.9 mg/dL < 500 mL/24hr	> 5 mg/dL < 200 mL/24hr	
HEPATIC	< 1.2 mg/dL	1.2-1.9 mg/dL	2-5.9 mg/dL	6-11.9 mg/dL	> 12 mg/dL	
COAG (Pit x 10 <sup>3</sup> )	<u>&gt;</u> 150 /mcL	< 150 / mcL	< 100 /mcL	< 50 / mcL	< 20 /mcL	
CNS (GCS)	15	13-14	10-12	6-9	< 6	

15









ad that his urine output has drop

struction. The nurse is calling the team to report fe hat his urine output has dropped to 0.3 mL/kg/hr.

ocer s/p resection, chemotherapy, and radiation (2010)

Vital Signs: Temperature: 39.2°C (max 39.5°C) HR: 135 beats/min RR: 38 breaths/min BP: 87/51 mmHg

Labs:

139 | 109 | 40 / 120 3.7 | 23 | 1.69 (baseline 0.4)

20 \<u>8.2</u>/90 /23.9\

HTN

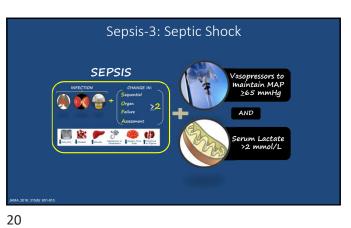
HLD

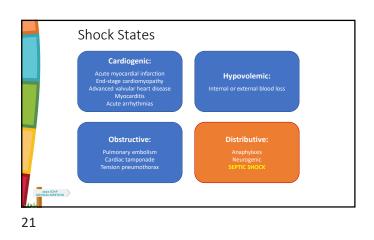
Stroke (2000, 2011)

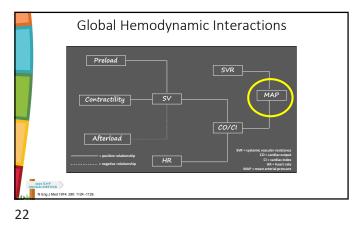
Hypothyroidis

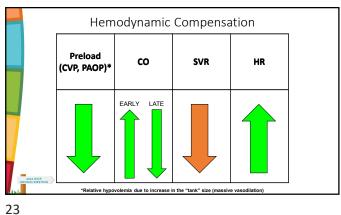
lergies: NKDA

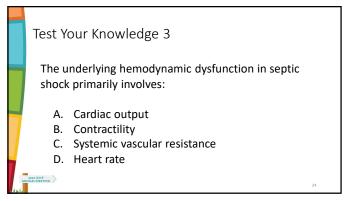














## Test Your Knowledge 4 Case B

# HPI:

Patient is a 72 y/o M who is POD4 from a planned admission for extensive abdominal surgery (abdominal exenteration with ileal conduit) and POD1 pelvic reconstruction. The nurse is calling the team to report fever and that his urine output has dropped to 0.3 mL/kg/hr.

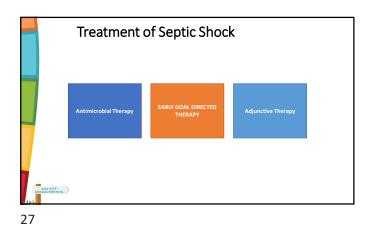
<u>Diagnostics:</u> TTE demonstrating LVEF 75% <u>Arterial Line:</u> MAP 63 mmHg HR: 135 beats/min Cuff blood pressure: BP: 87/51 mmHg Pulse oximeter: SpO2 = 96%

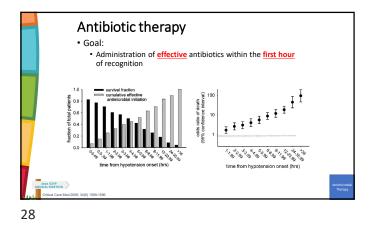
#### 25

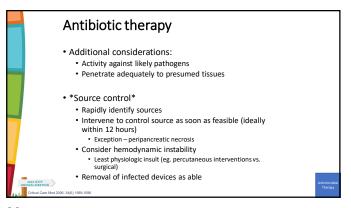
# Test Your Knowledge 4

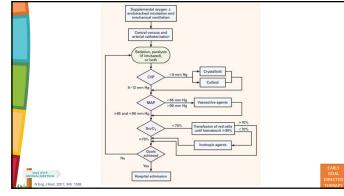
Which of the following hemodynamic variables are most likely a compensatory response for this septic shock patient?

- a. MAP = 63 mmHg
- b. BP = 87/51 mmHg
- c. LVEF = 75%
- d. Oxygen saturation = 96%

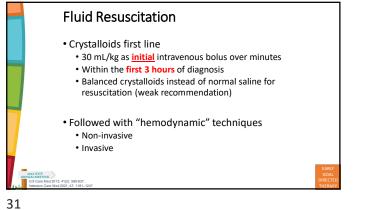


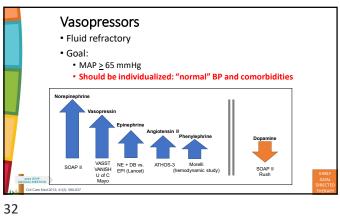


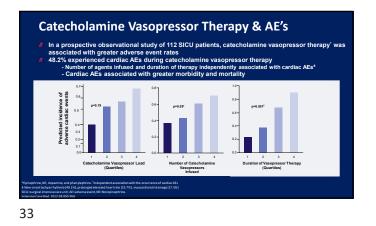


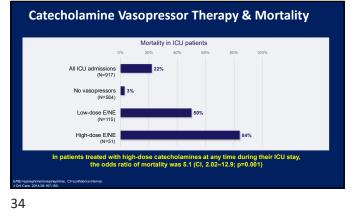








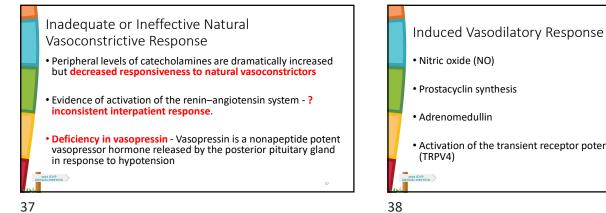


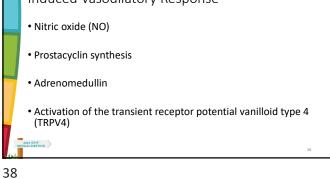


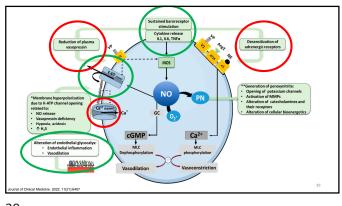




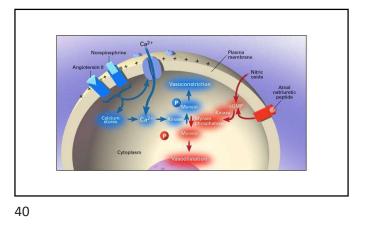


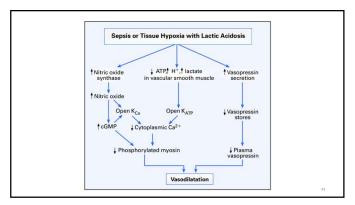




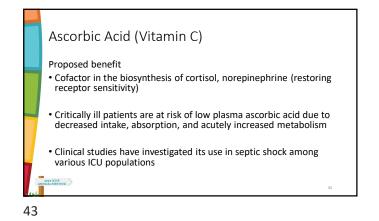


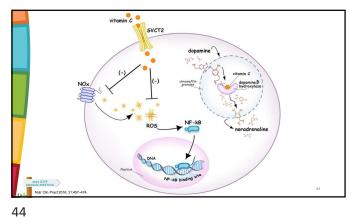




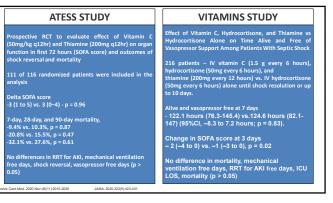




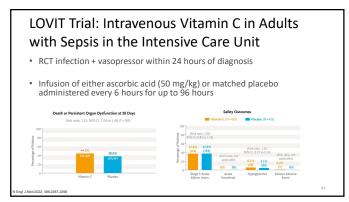


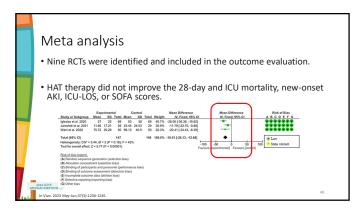


ANIMAL MODEL OF SEPSIS	EARLY EXCITEMENT – MARIK HAT STUDY
Exogenous vitamin C increases perfused capillary density and arteriolar vasoconstrictor responsiveness	Before–after study assessing the combination of IV vitamin C (1.5 g every 6 h), hydrocortisone (50mg every 6 h), and thiamine (200mg every 12 h) in 94 patients with severe sepsis or septic shock Hospital mortality -4 (8.5%) vs. 19 (40.4%) – $p < 0.001$ -Duration of pressors -18.3 ± 9.8 vs. 54.9 ± 28.4 – $p < 0.001$ -RRT for AKI3 -3/31 (10%) vs. 11/30 (33%) – $p = 0.02$
Free Radic Biol Med 2004, 37(8):1282–1289	Chest. 2017; 151(6):1229-1238

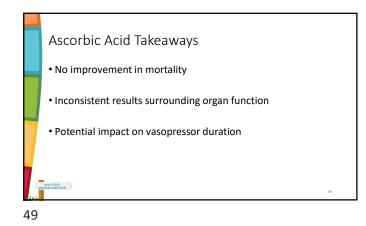


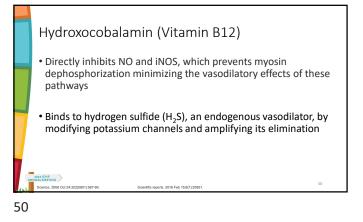


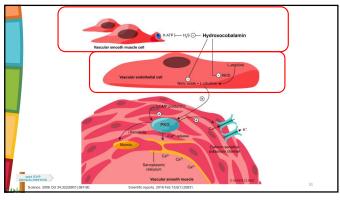




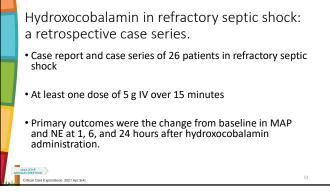




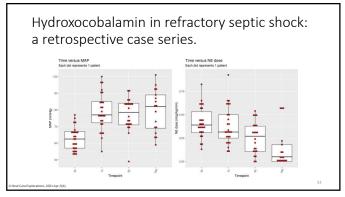


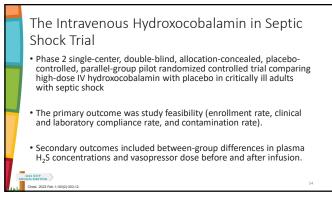


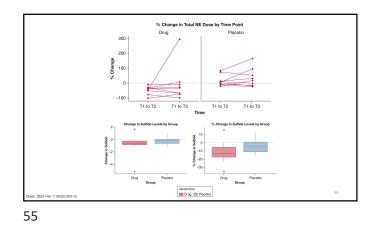


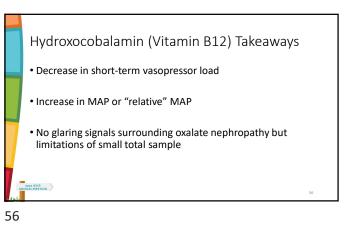


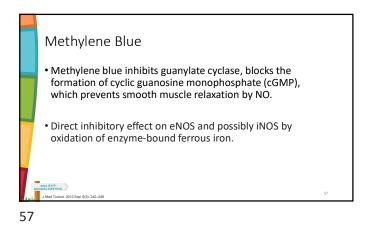


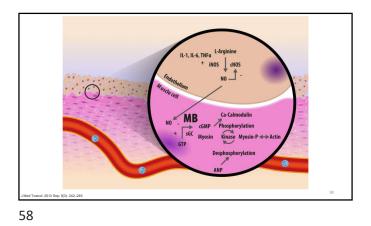


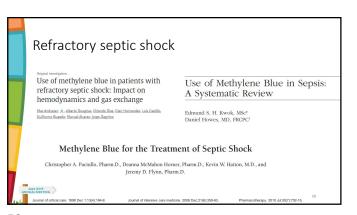


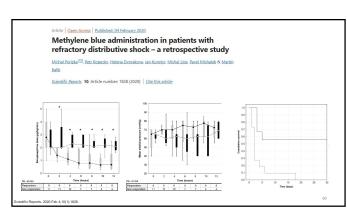




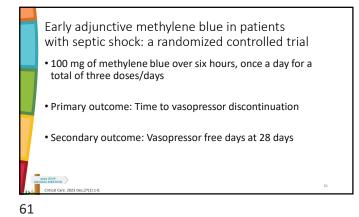


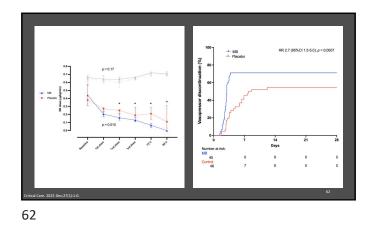


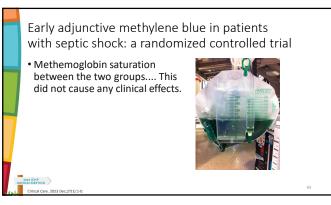


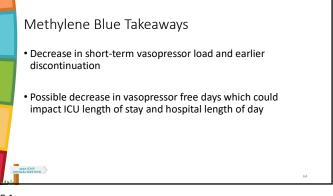




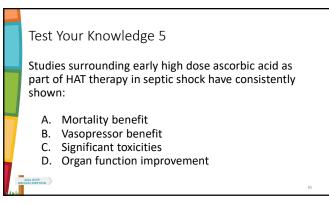


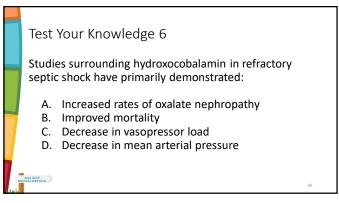














## Test Your Knowledge 7

Studies surrounding methylene blue in both early and refractory septic shock have demonstrated:

- A. Improved survival
- B. Unacceptable rates of serotonin syndrome
- C. Organ function improvement
- D. Decreased vasopressor duration
- 67

