Northwest Community EMS System January 2025 CE: Adult and Pediatric Sepsis Credit Questions

	Name (Print):			EMS Agency	r:						
	EMS Educator:										
	Date submitted Score:		Acceptable Not acceptable		☐ Incomplete☐ Incorrect answers	Date returned w/ feedback					
	Resubmission received:	Score:	Acceptable Not accept		☐ Incomplete ☐ Incorrect answers	Date returned w/ feedback:					
	# CE Hours awarded:			Date							
	This packet shou	uld take 2 hours to cor	mplete – which	n earns the e	equivalent of the 2-hour liv	e CE class.					
	Sources of information	/answers									
,	Jan CE PowerPoint PDF	, NWCEMSS SOPs, I	NWC EMSS J	an Continuin	g Education Case Studie	s, Pulse ox skill sheet					
1.	Which of the following s	statistics are NOT true	e (may be mult	tiple answers	s)? (PPT slide #11)						
	B. It is the most coC. It is the secondD. There is up to a	cause of death in hos mmon reason for read most expensive medic n 80% mortality rate a ion cases of sepsis an	lmission cal condition at ssociated with	septic shock							
2.	According to the "EMS reduces		lministration o erely septic pa	-	EMS before arriving at th	e hospital, significantly					
3.	EMS providers that are trained in sepsis screening, assessment, protocol and alerting the receiving hospital of a sepsis alert, have a lower mortality rate than the overall EMS mortality rate. What percentage lower is that mortality rate? (PPT slide #12)										
	A. 13.6% B. 21.4% C. 11.2% D. 37.0%										
4.	a	nd	of sepsis i	s the key to s	successful management o	f sepsis. (PPT slide #26)					
	☐ Sepsis alert and ar	ntibiotic administration									
	☐ Recognition and tre	Recognition and treatment									
	☐ End-tidal and fluid	management									
5.	List 4 patient populatio	ons that are more susc	ceptible to get	ting sick and	or developing and infection	on. (PPT slide #16)					
6.	List 5 signs and symp	otoms of viral and bac	terial infection	s. (PPT slide	e #18)						

1.

2.

3.

4.

patients.

7.	What a	are the	top 3 most common in	fections found in patient's re	esiding in a nursing home? (PPT slide # 19)	
	A.					
	B.					
	C.					
8.	Seled	ct all of	the following sympton		ith a urinary tract infection. (PPT slide #21, 22)	
	Α.	Abdo	minal pain	F. Burning while urinating		
	В. С	Cloud	ig wound lv/foul smelling urine	G. Increased frequency at H. Productive cough	and urgency to unhate	
		AMS		I. Feeling fatigued/weak		
	E.	Loss	of appetite	J. Confusion		
9.	Fill in	the bla	ank: Often times, espe	ecially in the elderly population	ion, one of the first signs of an infection is a	
				or a change in	. (PPT slide #23)	
10	are a	at a gr			helps EMS identify patients with suspected infection the omponents of qSOFA and the specific criteria for each	
		a.				
		b.				
		C.				
11	eleva devid	ited lev e that	els of lactate. EMS do	es not directly measure lacta	For patients with sepsis or in septic shock, they will havate in the prehospital setting, however there is a monitoring patient is experiencing. What is this measurement too	ng
			Blood pressure			
			Pulse oximetry Capnography			
			Blood glucose			
12	. Base	d on S	OPs and this month's	CE, which of the following m	natches the definition of SEPSIS? (SOPs, PPT slide #3	5)
		a.	S/S of infection + HR	> 100 + fever		
			Fever + SBP < 90 + /			
			EtCO2 \leq 25 + SBP \leq S/S of infection + EtC	$90 + RR \le 20$ $CO2 \le 32 + 2$ or more qSOF.	-A	
13	. – 15.	True	or false (PPT slides 12	2, 13 and 38)		
		a.		time of less than 5 minutes al, it will only slow down nece	s to the hospital, there is no value in starting care prior cessary tx at the hospital. True or False	to
		b.	Initiation of IV fluids in	n the prehospital setting by E	EMS does not reduce the odds of death in severely sept	tic

c. One episode of hypotension in a sepsis patient significantly increases morbidity and mortality.

True or False

True or False

		e the two r PPT slide	main underlying p #43)	hysiologic co	nditions th	at EMS is	addressi	ng with th	eir treatn	nent of se	psis/septic
17.	Fill in the	e blank: A	ccording to Dr. Ar	ntevy, the Ass	st Medical [Director at I	Palm Be	ach: (PP	「slide#⊿	14)	
		"	for s	epsis is as im	portant as	blood is for	r trauma	,,			
18.	with vita	als as follo	a 76 y/o female p ows: HR = 110, l de #45; SOP p 41	BP = 94/70, F							
	b. c.	2 mg vers 200 ml flu	8 mcg/min to ach sed to calm the pa id bolus to achiev for pain managen	atient ⁄e SPB ≥ 100							
we bre is s	aker the pathing and alto alto alto alto alto alto alto alto	past day o ld has an o ered on a	male patient who or two and does elevated respirato few of his orientat Which of the foll	not have mud ry rate of abo ion questions	ch of an apout 30 brea and seems	ppetite. ÉN ths per min s lethargic.	MS notes n. They r Remain	the pation ote a tem der of vita	ent has a op of 101.	in increase .7°F. In a	ed work of ddition, he
	b. c.	200 ml fl 500 ml c	0.1mg q 1 minute uid boluses to ma consecutive fluid b t 8 mcg/min to ac	ax of 500ml; if coluses up to	no improv 1 liter total				cg/min to	achieve S	SBP ≥ 90
20.	Select a	II of follow	ing patients that s	should have a	sepsis ale	rt called. (I	More tha	n one ans	wer). (SC	OP p 41)	
	b. c. d.	Cloudy, Recent I N/V x 2	roductive cough v foul-smelling uring knee replacement days, abdominal p patient not feeling	e, decreased , surgical site pain, weak, Bl	appetite, h appears ir P = 122/78	ard to arou fected, GC , HR = 90,	ise, RR = CS = 15, RR = 14	= 18, BP = RR = 16, , GCS = 1	96/58, E BP = 114 5, EtCO2	TC02 = 30 /82, HR = 2 = 40	108
21.	List the	3 types of	shock that occur	in pediatric pa	atients with	ı sepsis/se _l	ptic shoc	k. (PPT s	lide #55)		
22		of the follo (PPT slide	wing is/are challe +#56)	nges that EM	S faces in	identifying	indicator	s of sepsi	s in child	ren? Seled	ct all that
	□ Syr	mptoms ai	re very obvious ar	nd specific to	peds-aged	patients					
	□ Chi	ldren typic	cally compensate	well, then abr	uptly deter	iorate					
	□ Feb	orile illness	ses occur commo	nly in children	ı, so EMS r	nust asses	s careful	ly for S&S	that may	y signal se	psis
			en presented with I at identifying pos							obtain hx	
		True			☐ False						

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	Which of the following should EMS ask themselves FIRST when evaluating a child who is sick? Select all that apply. (PPT slide #59)
	□ Does the child have an infection?
	□ Does the child have risk factors for infection?
	□ Does the child have S&S suggestive of infection?
25.	Following the above consideration, what is the first "assessment" that should be made? (SOP p 90)
	Watch the video from the link below. Then answer the following question: When monitoring pediatric pulse ox, to ensure as accurate a reading as possible, what criteria must the sensor site meet? (PPT slide # 60) https://www.ems1.com/ems-training-and-education/are-your-pulse-ox-readings-messed-
	up?utm_source=delivra&utm_medium=email&utm_campaign=EMS1-Daily-12-4-24&utm_id=8174826
	List the recommended site for monitoring SpO2 for the following ages. (NWC EMSS Pulse Ox skill sheet) Neonate:
	Infant:
	1yr and older:
28.	After assessing the above, what is the next value that should be assessed? (SOP p 90)
	□ EtCO ₂
	□ Pulse ox
	□ Blood pressure
	□ Respiratory rate
29.	What do the following ranges of EtCO2 readings correlate with in sepsis and septic shock? (SOP p 90)
	EtCO2 ≤ 31:
	EtO2 < 25:
30.	List the 3 qSOFA criteria, and the assessments made for each of those 3 body systems. (SOP p 90)
	Automated peds BP readings may be inaccurate in the setting of hypotension/hypoperfusion. What action should providers consider to ensure as accurate readings as possible? (PPT slide #65)

32. Indicate for each shock. (SOP p 9		vhether it is	indicative of "0" infectio	n but no sepsis, "1" sep	sis, or "2" septic					
+ UTI; EtCO ₂ 28; SBP >70 + (2 X age); alert; rapid pulse; cap refill >3 sec										
High risk for infection; SBP 66-70; slow to respond; EtCO ₂ 20; weak radial pulse										
Suspecte	Suspected infection; fever; SBP > 70 + (2 X age); normal mental, resp and cardiac; EtCO ₂ 35									
Recent k	Recent kidney transplant; fatigued; confused at times; weak pulses; EtCO ₂ 30; SBP > 70 + (2 X age)									
		-	e should have venous a		, ,					
Please refer to the F	CR for the 10/F	with AMS a	and SOB. Then answei	r questions 14 - 20.						
34. List any potentia	sepsis-related fi	ndings for th	ne following assessment	ts for this patient.						
Infection Risk/S&S/Source	SpO2	EtCO2	Neuro qSOFA	Resp qSOFA	Cardiac qSOFA					
35. IVF are indicated	I for this patient.	Answer the	following re: your interve	entions and monitoring.	(SOP p 90)					
Calculate the volu	ume to be admini	stered:								
36. Fluid should be o	delivered at what	rate/within \	what time? (SOP p 90)							
			,							
36. What will your ta	raet SRP and MA	P he2 (SOI	2 n 00)							
30. What will your ta	rget obraild MA	ir be: (SOI	р 90)							
	d	المالية المالية المالية	- 4							
			hat would be indicated n PT slides #71 and 72)	lext? Specify dose/volur	ne for a patient of					
39. How many IV line	es are needed for	EMS to ad	minister NorEpi drip to a	a pediatric patient? (SO	PP p 90)					
	40. Procedure for NorEpi administration to pediatric patients requires that EMS only do so if they have access to what device? (SOP p 110)									