## Northwest Community EMS System May 2024 CE: Airway and Chest Wall Diseases Credit Questions

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	Name (Print):			EMS Agency	<u>r</u>				
	EMS Educator:								
r	late submitted Score:		Acceptable Not acceptable		☐ Incomplete☐ Incorrect answers	Date returned w/ feedback			
	Resubmission received:	Score:	Acceptable Not accep		☐ Incomplete ☐ Incorrect answers	Date returned w/ feedback:			
	#CE Hours awarded:		Date						
This packet should take 2 hours to complete – which earns the equivalent of the 2-hour live CE class.									
So	urces of information	n/answers							
Ма	y CE PowerPoint PD	F, NWCEMSS SOPs	, NWCEMSS p	rocedures, v	ideo links, copy of PCR d	iscussed in class			
1.	Anatomical componer #10)	Anatomical components of the "respiratory pump" include which of the following? Select all that apply. (PPT slide #10)							
	□ Respiratory mu	□ Respiratory muscles							
	□ Nerves innerva	Nerves innervating the respiratory muscles							
	□ Ribs, spine, ar	nd sternum							
☐ Heart and pulmonary structures									
2.	Optimal function of	ptimal function of the respiratory pump requires these 3 things? (PPT slide #10)							
	1								
	2								
	3.								
3.									
ა.	Prehospital management of respiratory distress for patients with kyphosis and or scoliosis is supportive. List two interventions that EMS can use given the lack of specific interventions for chest wall deformity. (PPT slide #14)								
4.	Fat deposits in the abdomen and thorax of patients with obesity cause restriction in downward movement of the diaphragm and outward movement of the chest all. This results in production of a lower tidal volume with each breath. What alteration in vital signs should EMS expect as patients compensate for this? (PPT slide #15)								
					d and pulse ox readings agement of this patient	are worsening in			
5.	What oxygen delive	ery device will provide	the most optir	nal pre-oxyg	enation for this patient? (S	SOP p 9)			
6.	How should the obe	ese patient by position	ned for the intu	bation proce	dure? (SOP p 9)				

	What two sites will provide EMS with the most reliable lung sounds for confirming accurate placement of ET tube of						
ar	obese patient? (SOP p 9)						
_	and						
W	hat two effects does the abnormal function of the CFTR protein produce in cystic fibrosis? (PPT slide #21)						
	and						
_							
Co	Common are two respiratory signs and symptoms common in patients with cystic fibrosis are: (PPT slide #21)						
_	and						
Ro	outine daily care of patients with cystic fibrosis is aimed at what? (PPT slide #23)						
E	cacerbation of cystic fibrosis will reveal worsening of what 3 things? (PPT slide #25)						
Lis	st 3 actions or interventions EMS may employ in management of CF exacerbation. (PPT slide # 25)						
W	hat change to lung tissue takes place in pulmonary fibrosis (PF)? (PPT slide # 26)						
re	sulting in ———						
_							
	Signs and symptoms commonly seen in patients with PF include which of the following? Select all that apply. Slide # 26)						
	Dyspnea						
	Persistent dry cough						
	Blueish discoloration to the skin						
	Low energy and activity tolerance						
	Cough productive of thick white mucus						

10.	which of the following puts a person at risk for development of PF? Select all that apply. (PP1 slide #21)					
		Smoking				
		Use of vape pens				
		Agricultural vocation				
		Urban dwelling (vs rural)				
		Farming and or ranching				
		Working in an environment where industrial dust and metal particles may be inhaled				
17.	Which of the following is accurate regarding patients living with PPF? (PPT slide #28)					
		Monitor pulse ox readings at home				
		Exacerbation of symptoms is common				
		Require supplemental O2 twenty-four hours a day				
		Require regular, frequent interventions to loosen airway mucus				
		Pulse ox readings are normally below those for the general, healthy population				
		Diagnosis may be delayed if S&S are assumed to be due to aging or being out of shape				
18.	List	3 signs and symptoms should alert EMS to possible exacerbation of PF? (PPT slide #30)				
19.		What finding specific to a change in SpO2 should alert EMS to a patient experiencing an exacerbation of PF and likel need for intervention? (PPT slide #30)				
20	Wha	at should EMS expect to learn regarding timing of a patient's symptoms, when they are experiencing a				
_0.	exa	exacerbation of their PF? (PPT slide #30)				
21.	Wha	at was the goal for successful intubations from each department for 2023? (slide 34)				
	a. 7	9% b. 70%				
	c. 5	0% d. 67%				
22.	Wha	at is the most common adverse event encountered during the intubation of critically ill patients? (slide 36)				
23	\/\ha	What are 3 complications of oxygen desaturation during an intubation attempt? (slide 36)				
_0.	vvila	talo o complications of oxygen decatal attention during all intubation attempt: (Since 00)				

24	List 3 key points or "gems" of preoxygenation and BVM ventilation: (slides 37 – 38)						
25.	Which of the following is a goal of preoxygenation? (slide 39)						
	<ul> <li>a. Decreases odds of hypoxia during intubation attempt</li> <li>b. Allows EMS to take as long as needed for the intubation attempt</li> <li>c. Maintain high levels of nitrogen in the lungs</li> <li>d. To hyperventilate the patient</li> </ul>						
26.	When a patient breathes 100% oxygen, this washes out the nitrogen and increases the oxygen in the lungs to appropriate volume? (Slide 42)						
	a. 2,000 mL b. 1,000 mL c. 500 mL d. 3,000 mL						
27.	Increasing the volume of oxygen in the lungs greatly decreases your period of safe apnea (period before patient desaturates to unsafe levels)? (slide 43)						
28.	Functional Residual Capacity (FRC) is the most important store of in the body.						
29.	What position promotes an increase in functional residual capacity?						
	<ul><li>a. Trendelenburg position</li><li>b. Head elevated at least 30 degrees</li></ul>						
							c. Supine
	30.	List the 4 benefits of Apneic Oxygenation: (slide 46)					
	1						
	2						
	3.         4.						
31.							
	Flange should rest on patient's lips						
	Distal tip rests behind bas of tongue in the oropharynx						
	Depress tongue with tongue blade						
	Insert airway along curvature of tongue						
	Verify tongue/lips are not caught between teeth and airway						

32.	Once BLS airways are in place, what is the next step for preoxygenating? (slide 51)							
	a. Assist ventilations with BVM b. Insert I-Gel							
	c. Apply 15L O <sub>2</sub> via EtCO <sub>2</sub> nasal cannula d. Provide oxygen via N	IRB mask						
33.	CPAP significantly delays desaturation during apnea? (slide 52)	True	False					
	CPAP helps recruit/open up collapsed alveoli to improve oxygenation?	True	False					
34.	Which of the following is NOT criteria that the patient must meet to be cons	idered for CPAP?(	slide 52)					
	a. RR ≥ 10 b. Alert c. Good ventilatory effort d. U	nresponsive						
35.	What optional piece of equipment limits flow through the BVM to help delive	er safe, effective ver	ntilations? (slide 57)					
	a. Sotair device b. ResQPod c. HEPA filter d. PEEP valve	е						
36.	<ul> <li>a. According to the NASEMSO Prehospital Airway Guidelines, EMS should pay attention to avoid what? (slide 58)</li> <li>a. hypertension and elevated glucose</li> <li>b. increased ICP and tachycardia</li> <li>c. bradycardia and hypercapnia</li> <li>d. hypotension and hypoxemia</li> </ul>							
37.	Once the patient is successfully preoxygenated for 3 minutes, the next step	) is	?					
38 -	– 40. For a patient in respiratory distress with a tracheostomy, put the follow	ring steps in order fo	or assessment/treatment:					
	Manually attempt to ventilate through tube							
	If can't replace trach tube, insert ETT until cuff just passes stoma If trach/ETT not patent after changing, or won't pass, ventilate mask to mouth							
	Attempt to pass suction catheter through trach tube (and su	uction)						
	If suction won't pass and double lumen: remove inner cann single lumen: remove and replace trach tube	nula, suction, clear ir	nner cannula, replace					