## Northwest Community EMS System July 2022 CE: Pharmacology: Routes & Dosing Credit Questions

lame (Print):			EMS Agency:		
EMS Educator:					
Date submitted Score:		☐ Acceptable ☐ Not acceptable		☐ Incomplete ☐ Incorrect answers	Date returned w/ feedback
Resubmission received:	Score:	☐ Acceptable		☐ Incomplete ☐ Incorrect answers	Date returned w/ feedback:
# CE Hours awarded:			Date		
This packet		o complete – wh	nich earns the	e equivalent of the 2 hou	live CE class.
		em Memos #40	5 & 406 (car	n be found on our system	website), and
What are the	meeting requirements/	expectations di	uring continu	ing education classes? (	System Memo #405)
_					
POLST forms	no longer require witne	ess signatures			
☐ True	☐ False	oo oignataroo.			
EMS may hon	or POLST forms with o	or without signate	ure forms?		
□ True	☐ False	· · · · · · · · · · · · · · · · · · ·			
List (in sequer to Cardiac Arr		wer of power red	commendatio	ons starting at from the ET	tube to the BVM? (Refer
	the patient is not being	oxygenated.			
☐ True	□ False		(D	. f t . O t	0)
_		required to wea	r a gown. (R	efer to System Memo #40	(6)
☐ True	☐ False				
	no longer require witne	ess signatures.			
☐ True How much IV	☐ False fluid is indicated for a p	ot who goes into	cardiac arres	st d/t anaphylaxis? Pt wei	ghs 120 kg.
Midazolam is	the preferred drug for p	ost invasive airv	vay sedation	and analgesia.	
□ True	□ False		,		

elements ar	e needed to maintain adequate perfusion?
What is the	minimum acceptable MAP for a patient using CPAP?
When is CP	AP contraindicated?
_	
	esents with dizziness and chest pain for the past hour. He also reports bloody stools for the past 2 be included in your IMC?
What is the	action of MRA's prescribed for heart failure prevention and/or treatment?
What is the treatment?	action of sodium-glucose cotransporter 2 inhibitors prescribed for heart failure prevention and/or
What are the	e indications for IV acetaminophen?
What are the	e contraindications for acetaminophen?

Scenario 1: EMS responds to a 6yr. old child at school having an allergic reaction. The child is awake, anxious, and appears tired with labored breathing. You note hives and facial edema. An Epi Jr pen was administered PTA. Child

Pulse is noted to be weak, fast; skin is cool to touch. Lung sounds diminished in all lung fields. Pulse ox is 85% on room air.

22. What is the minimum acceptable SBP for this child?

weighs 36 lb. / 16kg.

hat is the first medication that should be given? Specify drug, dose, volume, and route.				
What medication should be given as soon as venous access is obtained? Specify drug, dose, volume, and route.				
What is the max total dose for this patient?				
What is the max <b>single</b> dose for first administration?				
How long would it take (in minutes) to give the complete dose for this patient?				
Pt begins to vomit a moderate amount of liquid and is suctioned. What medication may help to prevent repeat vomiting and risk of airway contamination/obstruction? <i>Specify drug, dose, volume, route and rate of administration.</i>				
Lung sounds reveal wheezing. What medication(s) should this patient receive? Specify drug, dose, volume, route and max dose.				
What remaining medication will EMS administer per SOP.? Specify drug, dose, volume, route, max, and rate of administration.				
<b>Scenario 2</b> : EMS responds to a park district gym for a child having an asthma attack. The 10 y/o pt is sitting on the bleachers, in obvious resp distress, tripod position, able to speak only 2-3 words at a time, with retractions. Pts inhaler was empty when he attempted to use.				
Exam: HR 136 w/ strong pulses, RR 32, SpO <sub>2</sub> 88% on RA, ETCO <sub>2</sub> 27 and shark fin waveform. Lung sounds diminished to absent bilaterally. The patient gasps "please hurry – I'm getting really tired". His weight is <b>95 lb. (43 kg).</b>				
What level of severity is this patient in at this time?				
How much oxygen, and by what device, would you provide initially?				
What is the <i>first medication</i> that should be given? <i>Specify drug, dose, volume, route, and max.</i>				
What med(s) is given immediately after Epi is administered?				
The patient becomes fatigued and is now struggling to breathe. SpO <sub>2</sub> 89%, ETCO <sub>2</sub> is 25, HR 140. Patient eye opening to pressure. No change in his breath sounds. And EMS begins assisting ventilations and prepares for advanced airway.				
What medication is needed immediately? Specify drug, dose, volume, route, and max.				
Patient becomes difficult to ventilate w/ BVM. SpO <sub>2</sub> 90% and EtCO <sub>2</sub> 27. HR is bradycardic. While preparing for an advanced airway the patient moans attempts to pull away from the BVM mask. An IV is in place. What is sedative				

**Scenario 3**: EMS responds to a home for a 3 yr. old with a fever. Upon entry to child's bedroom, responders note generalized tonic-clonic seizure activity. Mom states pt has had a fever, sore throat, and cough for 2 days. Pt was seen by pediatrician one day prior, with instructions to administer Tylenol for fever and encourage fluids. Child has no PMH, meds or allergies. Tylenol was last given 3 hrs. ago for temp 100.4 °F. Weight was **30 lb. (14 kg)**.

- 37. What medication should be given at this time? *Specify drug, dose, route, volume and max single dose.* No IV access is established yet.
- 38. Seizure activity stops. Patient is unconscious (GCS 3): pt is pale, and breathing is shallow and slow. Bronchial breath sounds are noted on the left, clear on the right. EMS begins manual ventilation via BVM with good compliance. SpO<sub>2</sub> 90%, ETCO<sub>2</sub> 25. Mottling noted on her extremities. Pulses are weak at 154, cap refill 4-5 sec. SBP is 68. IO is in place. What is indicated next?
- 39. Transport is begun and a sepsis alert is called. If SBP does not rise to minimum target from IVF, what is indicated?

**Scenario 4:** EMS responds to a multifamily residence for a child not breathing. Scene cleared by PD. Residence is cluttered and dirty; EMS notes drug paraphernalia on end table. Mother is crying and reports child was found on the floor unresponsive when mother woke up from a nap. A "neighbor" is attempting CPR. Patient is 2 ½ year old, unresponsive with agonal breathing 4/min, with a slow, weak pulse. Mom denies recent trauma or illness. No allergies. Weight per Broselow is **20 lb. / 9 kg**.

EMS begins O<sub>2</sub> 15L/BVM. The patient is easy to ventilate. Initial RA SpO<sub>2</sub> is 84% and ETCO<sub>2</sub> is 70 with a square waveform. Lungs are clear. Initial ECG showed sinus bradycardia, 48-50. Pupils are 1-2 mm, round and equal. Glucose is 98.

40. What do you suspect, and what intervention is indicated?