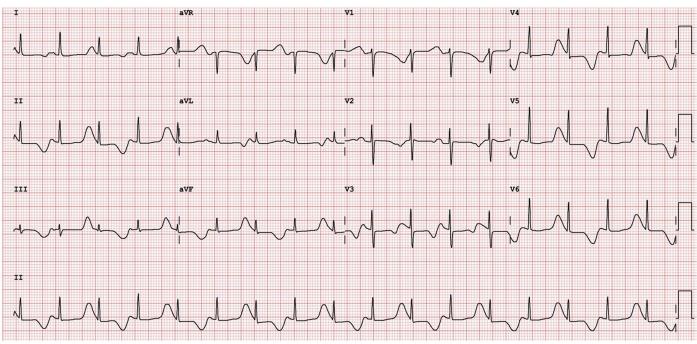


OSCE Questions HKCEM Joint Clinical Meeting October 2021

Question 1

A 52-year-old woman was gasping for air in the resuscitation bay. Cardiopulmonary resuscitation with endotracheal intubation was initiated immediately. She was then treated for Torsade de Pointes. Her blood pressure was 102/62 mm Hg, pulse rate was 84 beats/min, and SaO2 was 98% after resuscitation. The systemic examination was unremarkable. Routine laboratory investigations, including cardiac enzymes and serum electrolytes, were within normal limits. A postcardioversion 12-lead ECG was performed.



(a) Identify 3 abnormalities in this 12-lead ECG. (3)
(b) Diagnose this condition. (2)
(c) Further history did not reveal any history of chest pain, drug intake, or fever. Name ONE more history specific to this ECG condition. (2)
(d) Name TWO investigation (2)

(e) List TWO treatment available for this condition.	
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Question 2

A 49-year-old man presented to the emergency department (ED) with cyanosis and altered mental status. Emergency medical services reported that he was found unresponsive at a bar, hypotensive and hypoxic to 88%. In the ED, he remained confused and cyanotic. His blood pressure was 100/61, pulse 131 bpm; and SpO₂ 81%. He stated he "meant to drink [his] a drink, but drank the wrong bottle" (figure 2a). Cardiovascular examination was normal otherwise. The duty physician took arterial blood for blood gas analysis (figure 2b).





(Figure 2a)

(Figure 2b)

- (a) Identify the abnormality of blood sample shown in Figure 2b. (1)
- (b) Name the toxic agent contributing to the pathology. (1) Explain the pathophysiology. (3)

- (c) Name two non-medical effects of the agent stated in (b). (2)
- (d) State the specific treatment (1) and its dose (1) for this condition.

(e) In addition to drinks (figure 2a), name a known food source of this agent.	

Question 3

A 28-year-old woman was brought into the emergency department (ED) for unresponsiveness after she had suffered an apparent seizure at a party. In the ED, the patient had a blood pressure of 153/83 mm Hg, a pulse rate of 147 beats/min, and an O2 saturation of 84% on room air. She was lethargic but had no focal neurological deficits. Her urine toxicology screen was negative for benzodiazepines, barbiturates, cocaine, opiates, and methadone. She had initially Chest X-ray and then Computed tomography of the abdomen (figure 3a & 3b).



Figure 3a



Figure 3b

(a)	State and explain any radiological abnormality in Figure 3a & 3b. (1)	
(b)	Name TWO causative agents in this condition. (2)	
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(c)	Name three lethal complications in her condition if treatment not successful. (3)	
(0)	Traine three lethal complications in her condition in treatment not educedual. (c)	
/ _d /\	Name three complications which surrow is indicated (2)	
(a)	Name three complications which surgery is indicated. (3)	
(e)	Name one abnormal physical finding associated with this condition at triage. (1)	

A 8-year-old boy was brought to ED by his mother for persistent right little finger swelling for 2 week after an injury during a football game. Otherwise, he was well. A set of radiographs was taken as below.



(a) Describe the radiograph. (3)
(b) Give account to his management. (4)

(c) Indication of operative management for this injury. (3)	
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Question 5

A 25-year-old woman was involved in a motor traffic accident at somewhere 1 hour-drive away from the ED. She is 32 week pregnant and has rib tenderness, for which she has received analgesia in the first hospital, from which she was sent to you for further care. Her blood pressure was 115/60, pulse 85. Her abdomen was soft without tenderness on examination. She has been given supplementary oxygen with a mask. Assume atmospheric pressure is 760mmHg, and the FiO2 is 50%, her arterial blood gas and electrolytes are as follows:

and the FiO2 is 50%, her arterial blood gas and electrolytes are as follows:
ACID/BASE 37.0 ℃
pH 7.32
pCO ₂ 42 mmHg
pO ₂ 150 mmHg
HCO₃-act 21.3 mmol/L
BE(B) -5.8 mmol/L
(a) Describe the acid-base status. (1)
(b) Explain the acid-base status. (4)
(c) Calculate and interpret the A-a gradient. (5)