

SAQ 1

A 24 year old woman has just died in your ED despite active resuscitation after sustaining massive head injuries in a motor vehicle accident. Police are in attendance but her family members are unaware of the situation.

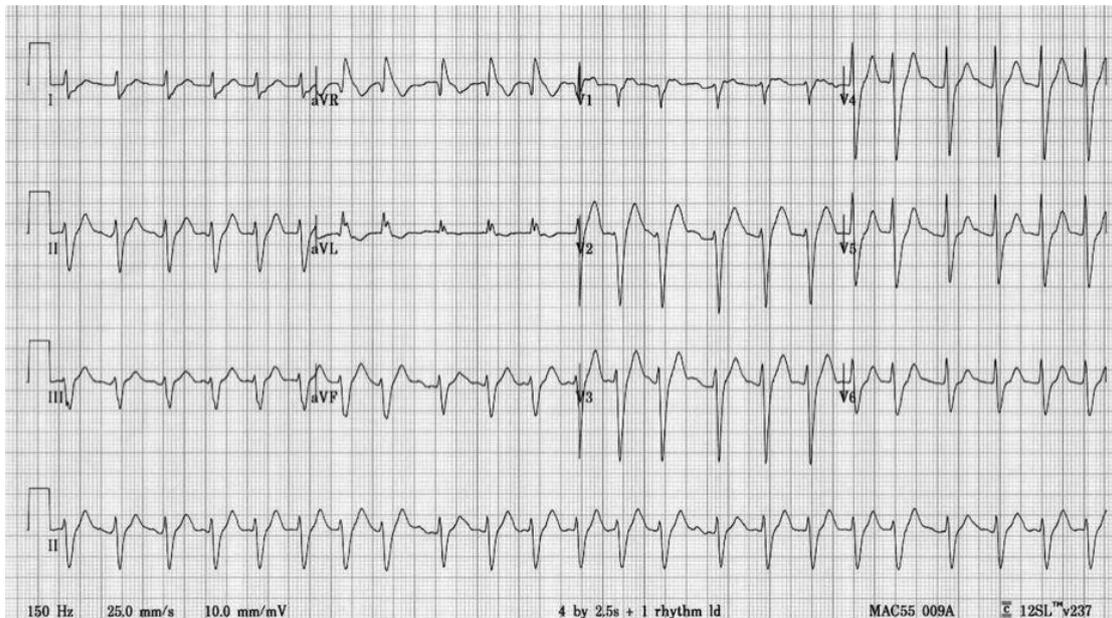
1. How will you break the news to the family? (6 marks)

2. In what circumstances must a death be reported to the coroner? (4 marks)

SAQ 2

A 46 year old man is brought to your emergency department by ambulance following an overdose of unknown medications. He has had a brief generalized seizure en route. On arrival his observations are:

GCS	12		
BP	85/60	mmHg	
Temperature	37.0	°C	
O ₂ Saturation	100	%	on 8 L/min O ₂



Describe the ECG (5 marks)

What are the first 5 things you would do to manage the patient?

SAQ 3

A patient is intubated and has capnography attached.

1. What are four indications of capnography in intubated patients ?(4 marks)

2. Draw the 4 phases of the capnogram, what does each phase represent ?(4 marks)

3. What are the features of a normal capnogram?(3 marks)

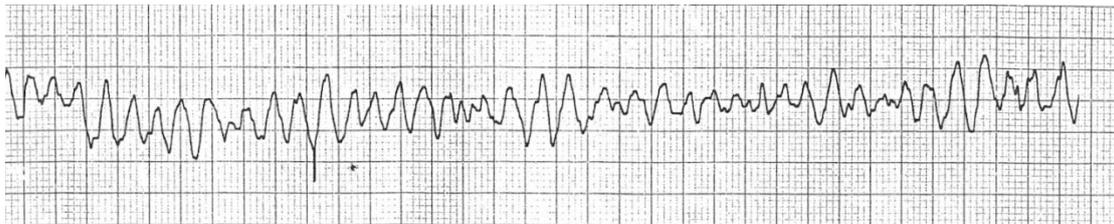
4. What capnogram differences do you see with a patient who has COPD ? (3 marks)

SAQ 4

An elderly man collapses and is unresponsive at a shopping centre.

1. What are the 4 elements in the chain of survival that improve the probability of survival? (2 marks)

He receives prompt BLS from bystanders, then defibrillation from an AED prior to the arrival of the ambulance 10 minutes post-arrest. He is found to be in VF and does not revert with defibrillation by the ambulance crew. He is transported to ED, where he is still pulseless and the monitor shows this rhythm.



2. What are your immediate actions? (8 marks)

c. Complete the following table regarding ketamine usage in paediatric procedural sedation by route of delivery (4 Marks)

	Intra-muscular (i.m)	Intra-venous (i.v)
Initial dose		
Top-up dose		
Advantage		
Disadvantage		

SAQ 6

A 68 yr old female presents to your Emergency Department following a fall. She complains of a painful left wrist. You have been asked by the orthopaedic team to manipulation and plaster this injury in the Emergency Department.

a. List 6 positive findings on the patient's wrist x-ray (6 Marks)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

b. List 2 negative findings on the patient's wrist x-ray (2 Mark)

1. _____
2. _____

c. List 6 factors that would positively influence your decision to perform the manipulation in the Emergency Department (6 Marks)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

d. List 6 factors that would negatively influence your decision to perform the manipulation in the Emergency Department (6 Marks)

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____





SAQ 7

A 75 yr old male presents to your Emergency Department complaining of progressive shortness of breath over 2 weeks.

a. Describe the patient's x-ray (4 Marks)

b. List 4 criteria for categorising a pleural effusion as an exudate (4 Marks)

1.

2.

3.

4.

c. List 4 causes of pleural transudates (4 Marks)

1.

2.

3.

4.

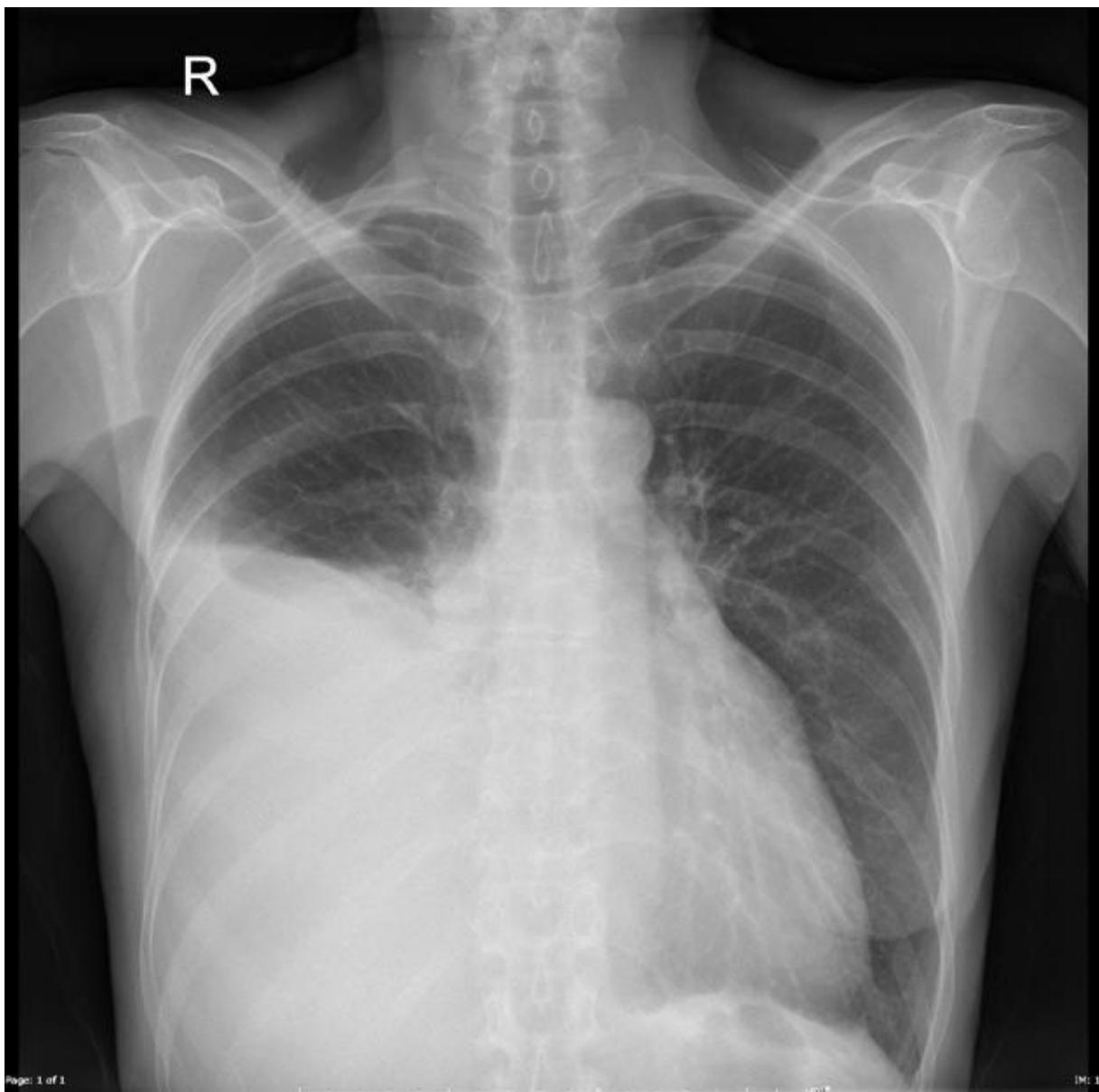
d. List 4 causes of pleural exudates (4 Marks)

1. _____

2. _____

3. _____

4. _____



SAQ 8

A 35 yr old female is brought to your Emergency Department by the police. She states she has been sexually assaulted by an unknown male.

a. Outline the main management issues for this patient's care (5 Marks)

b. What are the three objectives of the forensic examination in cases of alleged sexual assault ? (3 Marks)

c. List four high-risk features for HIV transmission following a sexual assault (4 Marks)

SAQ 9

There have been a number of incidents in your emergency department Short Stay Unit where patients have unexpectedly deteriorated during their stay.

a. What is the role of a Short Stay Unit? (2 Marks)

b. How would you develop a solution to this problem ? (4 Marks)

c. You have been asked to develop a set of exclusion criteria for your Short Stay Unit. Please list your exclusion criteria? (8 Marks)

SAQ 10

A 25 yr old male is brought to your Emergency Department following an overdose of Dothiepin.

His vital signs are:

BP 95/62

Sats 95% on 15 Lmin⁻¹

Temp 37.5 °C

GCS 7 (E=2 M=4 V=1)

BSL 6.8

His ECG is on the following page:

a. What is the dose related risk assessment for this poisoning ? (4 Marks)

DOSE (mg/kg)	Clinical features

b. List the 4 ECG abnormalities shown on his ECG ? (4 Marks)

c. Which ECG features are predictive of clinical features in this overdose ? (2 Marks)

ECG feature	Associated clinical feature

