

The Prince Charles Hospital
The Royal Brisbane & Women Hospital
Redcliffe Hospital
Caboolture Hospital

Facility/hospital/clinical service name

Metro North Hospitals ACEM Fellowship Trial Examination

2018.1

Short Answer Questions

SAQ Paper

Questions only

Booklet three

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ACEM Fellowship Trial Examination

2018.1

Short Answer Questions

SAQ Paper

Booklet three

Examination time: 180 Minutes

Direction to Candidates:

- 1- All questions must be attempted
- 2- Answer each question in the space provided
- 3- Enter your name for each question
- 4- This paper has been divided into 3 parts, each part is to be completed in 60 minutes

Booklet one:	SAQ 1-9
Booklet two:	SAQ 10-18
Booklet three:	SAQ 19-27
Props Booklet:	All props

SAQ 19: (9 Minutes)
Total 18 Marks

Candidate Name:

A 75yo man presents to your ED with a 2 day history of lower abdominal pain, fevers and malaise. You are unable to obtain more information.

Vital signs:

HR 110
RR 24
Temp 38.2
BP 95/55
GCS E3V4M6 13

A Venous Blood Gas and basic bloods are performed:

pH 7.12
pCO₂ 34
HCO₃ 13
Hb 124
Na 138
K 6.2
Cl 110
Creat 443

FBC:

Hb 121
WCC 15
Plt 4

Chemistry:

Urea 20
Creat 465
ALP 174
GGT 86
ALT 97
AST 372
LDH 1180

His previous liver and renal function tests have all been normal

Questions:

1. For the venous blood gas, calculate, showing your workings, the anion gap (2 marks)

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2. List 3 likely causes of the metabolic derangement in this patient (3 marks)

3. What is the MOST likely unifying diagnosis in this patient, and what are the supporting features? (4 marks)

Diagnosis:
Supportive features:

4. A single slice of the patient's CT scan is shown. List 1 positive and 2 negative features, relevant to this patient's presentation (3 marks)



Positive feature:
Negative Features:
1-
2-

5. List your 3 main management priorities, with justification, for this patient (6 marks)

Management priorities	Justification

**SAQ 20: (6 Minutes)
(12 Marks)**

Candidate Name:

A severely emaciated 14-year-old girl presents to ED with her parents who are very concerned about her weight. She has a known diagnosis of Anorexia Nervosa.

1. List 4 overarching goals in the management of Anorexia Nervosa when admitting patients to the hospital for acute inpatient care.

(2 marks)

2. List 6 clinical, bedside test or lab criteria that would require her to be admitted to the hospital under the Medical inpatient Team.

(6 marks)

3. You decide this patient requires admission to a medical ward.

List 4 medical complications that may occur after this patient commences treatment.

(4 marks)

SAQ 21: (6 Minutes)
Total Marks 12

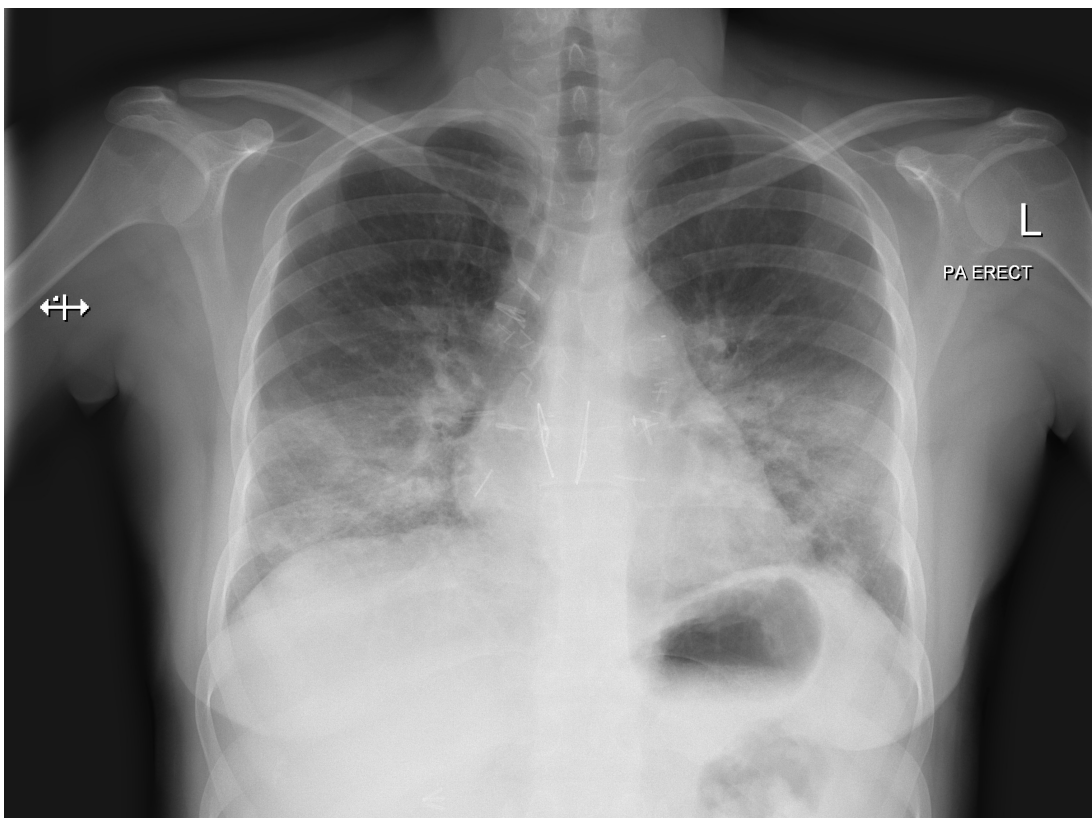
Candidate Name:

A 28 year old female patient presents to your regional ED with a fever and cough. She is 6 months post-op from a double lung transplant for cystic fibrosis.

Her vital signs are:

Temp 38.0
HR 105
BP 120/75
RR 24
O2 sats 91% on RA

Her CXR is shown below.



Questions:

1. Describe the key findings on her CXR. (2 marks)

2. List 5 differential diagnosis for her presentation.

(5 marks)

3. Outline 5 key steps in your management of this patient in the ED.

(5 marks)

SAQ 22: (6 Minutes)
(Total Marks 12)

Candidate Name:

A mother arrives at Triage carrying her son age two years. He is choking on a toy and has an ineffective cough and is cyanosed.

Questions:

1. List three features of an effective cough: (3 Marks)

2. List the three treatment options in the universal algorithm for the choking child (3 Marks)

- 3- Name four (4) features in the basic life support algorithm for children (4 Marks)

- 4- Name two (2) features of chest compressions in children: (2 Marks)

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SAQ 23: (6 Minutes)
(Total marks 12)

Candidate Name:

A 45 year old man has been brought into ED following a fall onto his outstretched arm. On initial assessment, he has tolerable left shoulder pain. He is lying with his left arm abducted above his head. He has no other injuries identified.

This patient's left shoulder XRAY has been reproduced below:



Questions

1. List 2 radiological abnormalities seen in the XRAYs above.

(2 marks)

2. State the expected mechanism that has led to this injury.

(1 mark)

3. List 4 complications that may be associated with this injury.

(4 marks)

4. In 5 steps, state how you would approach this patient's management.

(5 marks)

SAQ 24: (6 minutes)
Total Marks 12

Candidate Name:

A 52 year old male is brought into your Emergency Department after being involved in an altercation at a pub on Friday night.

He sustained a single punch to his face, witnessed to not lose consciousness and complains of facial pain.

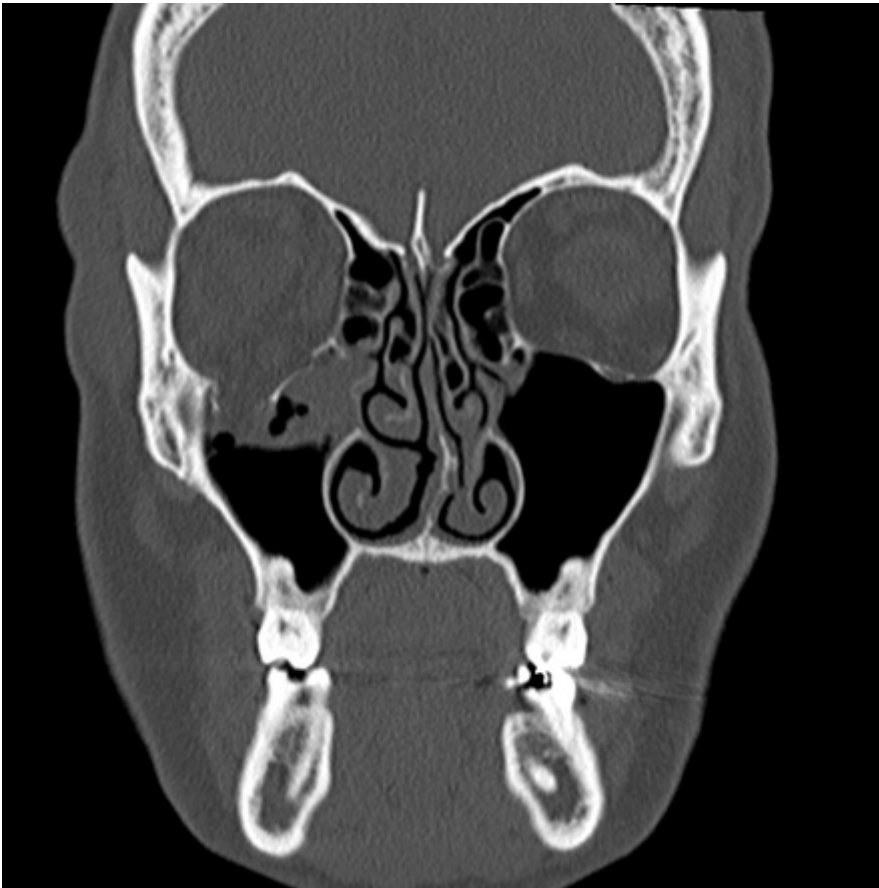
On your review he is GCS 15 with normal vitals.



1. What historical and examination features are important to elicit during assessment?
(3 Marks)

2. What three features on plain Xray suggest an inferior orbital wall fracture?
(3 Marks)

3. He undergoes a CT of his facial bones. Describe the major findings shown on the coronal slice below. (3 Marks)



4. With trauma, list the three (3) causes of optic neuropathy.

(3 Marks)

SAQ 25 (6 minutes)
(Total marks 12)

Candidate name:

A 40 year old known schizophrenic patient presents to your ED by ambulance on an involuntary order. He had been behaving erratically at a train station. Whilst waiting to be seen he absconds from the ED and is unable to be located by ED staff.

Questions:

1-List 5 immediate steps in managing this situation

(5 marks)

2-List 4 features that would make this patient at high risk of self harm.

(4 marks)

3- A few hours later the patient is returned to the ED by police. On arrival he is behaving aggressively and is resisting being moved into a treatment cubicle.

(3 Marks)

List 3 options for chemical restraint, including doses:

SAQ 26 (6 Minutes)
(Total Marks 12)

Candidate name:

A 62 year old female is brought to your emergency department with central pleuritic chest pain and shortness of breath from the local cruise ship terminal.

1. What are the potential differential diagnoses?

(3 Marks)

During your assessment she deteriorates clinically and becomes agitated, tachycardic, hypotensive and hypoxic.

Her vital signs are now:

GCS 13/15 (agitated)
HR 130 Sinus tachy
BP 90/60
Sats 89% RA
RR 28.

2. List 4 immediate investigations and the rationale for each:

(4 Marks)

Investigation	Rational

3. You diagnose a pericardial effusion from your history/examination and investigations.

What are the common causes of **ANY** pericardial collection for patients presenting to the emergency department? (3 Marks, 0.5 each)

4. What are the main ECHO features to support the clinical diagnosis of cardiac tamponade? (2 Marks 0.5 each)

SAQ 27: (9 Minutes)

Candidate name:

(18 marks)

An 8 year old boy is brought into your ED by his mother after falling off a trampoline onto his outstretched arm. He is uncomfortable, crying and has an obvious deformity to his arm. He has a palpable radial pulse with no convincing sensory change. There are no other injuries.

His urgent X-RAY was performed and reproduced below:



1. List 3 abnormalities seen on the XRAY above. (3 marks)

2. State the eponymous name of this fracture. (1 mark)

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3. In the table below, list 3 complications of this injury which should be sought for in the ED. In your answer, list the clinical features associated with them.

(6 marks)

Complications	Clinical features

4. In 4 steps, state how you would approach this patient's care in your ED.

(4 marks)

It is 21:00 hrs and the Orthopaedic registrar on call has asked you to reduce this fracture in ED.

5. State 4 factors to consider before responding.

(4 marks)

Good luck
Oh forgot, still you have SCQ in the afternoon 😊