

MCEM SAQ 18 DECEMBER 2006

Duration 2 hours

16 SAQs

1. 35 years old lady fell off ladder from loft, pre syncopal event, deformed left thigh. Xrays show trimalleolar fracture. Asking for emergency medication and has medic alert bracelet

Data card: vital signs Pulse 124/min, BP 78/46 mmHg, RR 24/min, BM 2.1 mmol

ABG: pH 7.31, BE -6.0, P_{CO_2} 3.1, PO_2 10.4, HCO_3^- 16.1

- Questions; a) Give 4 likely causes/diagnosis?
b) Give 4 most appropriate investigations in AE?
c) Which emergency medication, dose and route?

2. ACUTE SEVERE ASTHMA

GP referral, 4 years old with acute asthma

- Questions; a) What are 4 important physical signs of acute severe asthma in this age group
b) What are 4 initial steps in management of this patient?
c) What are the criteria for referral to ICU?

3. FACIAL PALSY (picture on the data card)

35 years old, isolated left lower motor neuron facial palsy, PMH NAD, Rest exam normal

- Questions; a) What is most likely diagnosis?
b) What are other 4 possible causes?
c) What are 4 initial steps of management in A&E?

4. ACUTE GLAUCOMA

GP Referral, acute glaucoma

- Questions; a) What are 2 important findings on slit lamp?
b) What are 2 important drugs you can give, doses and mechanism of action?
c) What are 4 important causes of unilateral dilated pupil?

5. ECTOPIC PREGNANCY

- Questions; a) What are important features in PMH predispose to Ectopic
b) What are 4 important points in history and physical exam?
c) What are 4 initial investigations that confirm diagnosis and management?

6. RASH ON LEGS (Pic on data card with rash on legs)

35 years old Crohns disease, last week bloody diarrhoea and abdominal pain

Questions; a)What is your diagnosis?

b) What are 4 extra abdominal infestations of Crohns disease?

c)What 4 important initial steps in management?

7.RASH AROUND THE KNEES (Pic on data card)

known psoriasis, now warm,tender, swollen around knee T 38 C

Questions; a)What 2 possible causes ?

b) What are 4 other possible diagnosis?

c)What 4 important initial steps in management and investigations?

8.MYOCARDIAL INFARCTION (ECG on data card,Right chest leads, infero-post MI)

Questions; a)What 3 important abnormalities on ECG ?

b) What is the possible diagnosis and what part of myocardium affected?

c)What medication will you not give to this patient?

d)Can you get pulmonary edeme in this patient and why?

9.SUPRACONDYLAR FRACTURE (X ray showing communicated sc frac)

7 years old child,FOOSH

Questions; a)What are 4 abnormalilities on Xray ?

b) What are 4 likely complications?

c)What are 3 other important fractures common in children?

d)What are your 4 initial steps in management?

10.URINARY RETENTION

35 years old female 12 hours history, unable to pass urine, bladder palpable

Questions; a)What 3 symptoms of bladder outflow obstruction?

b) What are 3 important causes in this patient?

c)What 4 important initial steps in management and investigations

11. SALICYLATE POISONING

40 years old man ,toothache for 2 days, took 40 tablets of painkiller over last 24 hours ,still has toothacke,now c/o tinnitus, confusion

Questions; a)What is possible causes?

b) What are 4 important investigations in emergency department?

c)What is mechanism of action of activated charcoal?

d)What is pharmacological principles of alkaline diuresis?

12.HOUSE FIRE/PULSE OXIMETER

35 years old exposes to house fire,now has sats of 75%,sitting comfortably and talking

Questions; a)What 4 important investigations?
b) How will you know that pulse oximeter is giving true reading or not?
c)What are 4 other conditions in which pulse oximeter readings are not reliable?

13.BILATERAL PAROTID SWELLING/MUMP

Questions; a)What 3 other possible causes ?
b) What are 4 steps in your initial management?
c)What are 3 complications of mumps/

14.HEAD INJURY/BASE OF SKULL FRACTURE(Pic on data card)

Questions; a)What are 3 causes of doing urgent CT Head ?
b) What are 3 signs of base of skull fracture?
c)What 4 important initial steps in management and investigations

15.APLS GUIDELINES ON DEHYDRATION OF CHILDREN

2 years old severe diarrhea for 2 day, both mother and father at work

Questions; a)What are percentages of dehydration ?
b) What is criteria for admission to hospital?
c)What 4 important initial steps in management.
d) What are 4 important points in history?
e)What are 6 important clinical signs will you look for/

16.ANGIO-EDEMA (Pic on data card)

Man with swollen lips,known ae,no airway obstruction

Questions; a)What are causes of angioedema?
b) What are important points in history?
c)What are important steps in management ?
d)which anti hypertensive is attached to it?