1. A 60 year old plumber attend the ED with painful swelling to his left knee. Clinical examination demonstrates a hot, erythematous knee with a range of movement from 20 degrees to 120 degrees. His observations are normal.

What is the most appropriate treatment?



- A) Arthroscopic washout
- B) Flucloxacillin
- C) Incision and drainage
- D) Naproxen
- E) Penicillin V

2. A 17 year old man attends the ED with a rash. He had a cold sore the previous week and has now developed multiple lesions to his hands and torso. He is systemically well.

Which of the following is the most likely diagnosis?



- A) Erythema migrans
- B) Erythema multiforme
- C) Gianotti-Crosti syndrome
- D) Pityriasis Rosea
- E) Stevens-Johnson syndrome

3. An 18 month old child is brought to the ED with a widespread rash. She has been ill with a fever and upper respiratory type symptoms for three days, but her fever settled earlier this morning. She appears clinically well with a n otherwise normal examination.

What is the most likely diagnosis?



- A) Erythema infectiosum
- B) Kawasaki syndrome
- C) Measles
- D) Roseola infantum
- E) Scarlet fever

A 45 year old woman presents to the ED with a two day history of abdominal 4. pain. Abdominal examination confirms generalised tenderness. Her x-ray is shown.

What is the x-ray abnormality demonstrated?



- A) Gastric distension
- B) Gastric volvulus
- Inflammatory small bowel changes Large bowl obstruction C)
- D)
- Small bowl obstruction E)

5. An 11 year old boy presents with his parents to the ED having developed a limp over the last week. He is systemically well and has no medical history.

What is the most likely diagnosis?



- A) Perthes disease
- B) Primary bone neoplasm
- C) Septic arthritis
- D) Slipped upper femoral epiphysis
- E) Transient synovitis

6. A 37 year old man is brought to the ED following a house fire. He is GCS 10 and agitated on arrival with a HR of 120 beats per minute and BP 105/85. He has sooty deposits around his face and mouth but no burns elsewhere on his body. He appears cyanosed and is receiving 10 L/min of oxygen through a face mask.

On oxygen 10 litres.

What is his calculated anion gap?

рН	7.15	Na	145 mmol/L
PaCO2	6.0 kPa	K+	4 mmol/L
PaO2	7.5 kPa	Urea	3 mmol/L
O ₂ sats	98%	CI	90 mmol/L
HCO3	25	Blood Sugar	5

- **A) 30** B) 38 C) 49
- D) 55
- E) 293

7. A 22 year old man presents with a three day history of sore throat and fever. His temperature in the department is 39°C. He has malaise and complains of mild upper abdominal pain. His oropharynx is as shown.

What is the most likely diagnosis?



- A) Infectious mononucleosis
- B) Influenza A infection
- C) Paramyxovirus infection (mumps)
- D) Streptococcal tonsillitis
- E) Viral pharyngitis
- 8. A 28 year old woman who is 36 weeks pregnant presents with vaginal bleeding. Her previous scans have confirmed an intra-uterine pregnancy. She is rhesus negative. She has no abdominal pain and ongoing significant bleeding.

What pathology is the most likely explanation for her haemorrhage?

- A) Placenta praevia
- B) Placental abruption
- C) Progression of Labour
- D) Threatened miscarriage
- E) Uterine rupture