*ACEM FELLOWSHIP EXAM 2009.2 SCE 1*

**SCENARIO**

**You are asked to see a 61 year-old man on holiday from the United Kingdom. He presents with recent onset of sharp left-sided chest pain, worse with breathing. He is a smoker. There is no history of trauma.**

**Sent to x-ray from triage, he has returned with the films.**

***Question 1: Describe and interpret the x-ray (x-ray in exam room).***

*ACEM FELLOWSHIP EXAM 2009.2 SCE 2*

**SCENARIO**

**A 4 year old boy presents with a 2-day history of increasing nausea, vomiting and epigastric pain. Some of his preliminary results are depicted below:**

**pH 7.08 (7.35 – 7.45)**

**pCO2 30 mmHg (35 – 45)**

**pO2 135 mmHg (80 – 95)**

**HCO3 10 mmol/L (22 - 28)**

**Base excess - 20  (- 3 to +3)**

**O2 sats 98% (>95)**

**Na+ 140 mmol/L (134 – 146)**

**K+ 4.1 mmol/L (3.4 – 5)**

**Cl- 100 mmol/L (98 – 106)**

**Creatinine 160 mcmol/L (50 – 100)**

**Urea 20 mmol/L (3 – 8)**

**Lactate 4.7 mmol/L (<1.3)**