

### **CBL - Sem 3 – Renal Mod :**

A 40 years old male, known case of hypertension for 10 years is brought to emergency department with pain in his left flank not radiating any where in the abdomen and is constant. He says that the pain is relieved for some time with over the counter pain killers which he has been taking for some time as these episodes have occurred in the past. He also states that he had blood in urine once on the same day. The patient states that pain is dull in character, 5/10 in intensity. The color of urine was grossly orange to red with no smell and was about a cup full. (His father died suddenly from a subarachnoid hemorrhage at the age 40 years)

On examination, his pulse was 80 bpm, Blood Pressure 170 / 105 mm Hg, liver was palpable , 10 cm below the right costal margin, and both kidneys were palpable with regular surfaces.

#### **Labs:** Blood CP

Hb: 13g /dl  
WBCs:  $5 \times 10^9$ /L  
PLTs:  $247 \times 10^9$ /L  
ESR: 15 mm in 1<sup>st</sup> Hr

#### **Urine Microscopy**

RBCs: Numerous  
Hyalin Cast: ++  
Pus Cells : 2 – 3 /HPF  
Leukocytes: 2 – 3 / HPF

#### **Serum Electrolytes**

Sodium: 139 mmol/L (135-146 mmol/L)  
Potassium: 4.5 mmol/L (3.5-5mmol/L)  
Urea: 20 mmol/L (2.6-6.7 mmol/L)  
Creatinine: 400 mmol/L (50-150 mmol/L)  
Phosphate: 1.9 mmol/L (0.8-1.5 mmol/L)  
Calcium: 2.1 mmol/L (2.2-2.7mmol/L)