



Done By

Hussain Alkaff

Abdulrahman Alkaff

Nourah Al-beeshi

## Scenario

Ahmed is a mildly obese 52-year-old man. He presents to the emergency room complaining of nausea and severe, intermittent lower back pain that is radiating to the groin. These symptoms have progressively worsened over a period of 24 hours. He also reports that his urine volume has been less than normal for the past 3 days. After taking a complete history and performing a physical examination, the physician learns that Ahmed. The medical history is significant for hypertension, hypercholesterolemia, and type 2 diabetes. He also had an episode of gouty arthritis about 2 months ago .

**What is likely the diagnosis ?**

Uric acid kidney stone

**What is the medical term of this disease ?**

Nephrolithiasis

**Name the types of Kidney stones and which of the following is the most common one ?**

- 1- Calcium stones
- 2- Struvite stones
- 3- Uric acid stones
- 4- Cysteine stones

**How to diagnose this disease ?**

- 1-Plain x-ray and ultrasound
- 2-Urinalysis
- 3- Blood test

**Mention names of Bacteria that can cause Kidney stones and which is the type of stone that can cause it :**

- 1- Proteus
  - 2- Klebsiella
- Stuvite kidney stones

**Mention the sites of constriction :**

- 1- Ureteropelvic junction
- 2- Pelvic inlet
- 3- At site of entrance to bladder

**Mention arterial supply to the ureter :**

- 1- Gonadal artery
- 2- Renal artery
- 3- Common iliac artery
- 4- Internal iliac artery

**Mention two possible complication of this disease :**

- 1- Hydronephrosis
- 2- UTI

