

Urology

* Sign and symptoms of urinary tracts :-

1] Hematuria \Rightarrow Presence of RBC in urine

Classification :

1- Initial \Rightarrow blood in the first 10 ml of urine due to urethral origin (urethritis / urethral tumor)

2- midstream \Rightarrow blood come from bladder

3- Terminal \Rightarrow the last 10 ml of urine indicate source of Prostate or the bladder neck or anterior urethra

(bladder neck contracture / Prostatitis / Prostate cancer)
bladder neck stone

* Intermittent / Continuous hematuria

\hookrightarrow more dangerous \Rightarrow indicate bladder tumor

* The most common cause of ureteric ~~obstruction~~ obstruction \Rightarrow blood clot.

* Double voiding \Rightarrow due to obstruction
(بداخل الحام و يرجع بخله بأقرب من ساعتين)

* Frequency \Rightarrow (بداخل الحام) أكثر من ساعتين
due to irritation

\hookrightarrow urine output = ml / Kg / hr

severity :

- 1- Mild hematuria \Rightarrow Pink blood
- 2- Moderate \Rightarrow fresh blood
- 3- Severe \Rightarrow blood with clot (tumor)

Painful hematuria :- ask 3 Questions

- 1- burning during urination?
 - 2- suprapubic Pain?
 - 3- Flank Pain?
- (Painless لا يوجد ألم ولا في المنطقة الجانبية)
 \hookrightarrow indicate bladder cancer

② Renal Colick (in loin region)

Pseudo Colick	true colick
- Renal colick	- ureter (organ have hollow)
- due to infection	- due to obstruction
- with chill, rigor, sweat	- lower urinary tract symptoms (dysuria, Frequency, urgency)
- Constant / continuous	- intermittent / short time
- in loin or flank area radiate to Costophrenic angle	- in loin radiate to groin, vulva, Penis
- treated by antibiotic	- treated by surgery

③ urgency \Rightarrow strong desire to void

④ incontinence \Rightarrow involuntary loss of urine

Types B

1- urgency \rightarrow involuntary loss of urine ass. with urgency (infection / neurogenic bladder)
إسهال

2- Stress \rightarrow " " " " ass. with \uparrow in intrabdominal pressure (IAP)

3- True \rightarrow due to Fistula

4- Nocturnal \rightarrow in night

5- mixed \rightarrow stress + urgency

6- overflow \rightarrow urine retention usually chronic

⑤- dysuria \Rightarrow Pain/burning during urination

6-

frothy / Fomy urine (جلب) ⇒ Protein in urine

(Pneumaturia)

caused by → Fistula btw bladder and colon ⇒ Crohn's disease, Diverticular

7-

odor → if smell the odor in early morning its normal

→ if all day its infection

dehydration → 3 things

1- strong odor

2- concentrate urine

3- burning in urine (due to acidity)

8-

* intermittency → dis continuation (urination → Pause → urination)

due to obstruction in urinary tract, stone

BPH

most common cause in old age → BPH

Urine retention → inability to void

incomplete voiding → بعض الحماض وجس
الانساني urine

acute (min / hour)

⇓

sever lower abdominal pain

bladder capacity (400-500)

- ass. with renal impairment

Chronic (day/week)

⇓

- Painless

- more than 800

- reflex (البولنبيل للتراطوية)
Kidney شرجع

- Over flow incontinence

- Post obstruction distyis diuresis

* testicular Pain ⇒ usually unilateral

⇓ infection

testicular cancer → Painless

* bifurcated stream متشعب

↳ indicate for obstruction in urethra

* Post void dripping (male)

↳ obstruction

* Narrow stream بوصلة انانطوية
with high pressure

⇒ obstruction, BPH in old, in children < 10 years

due to external meatus stenosis