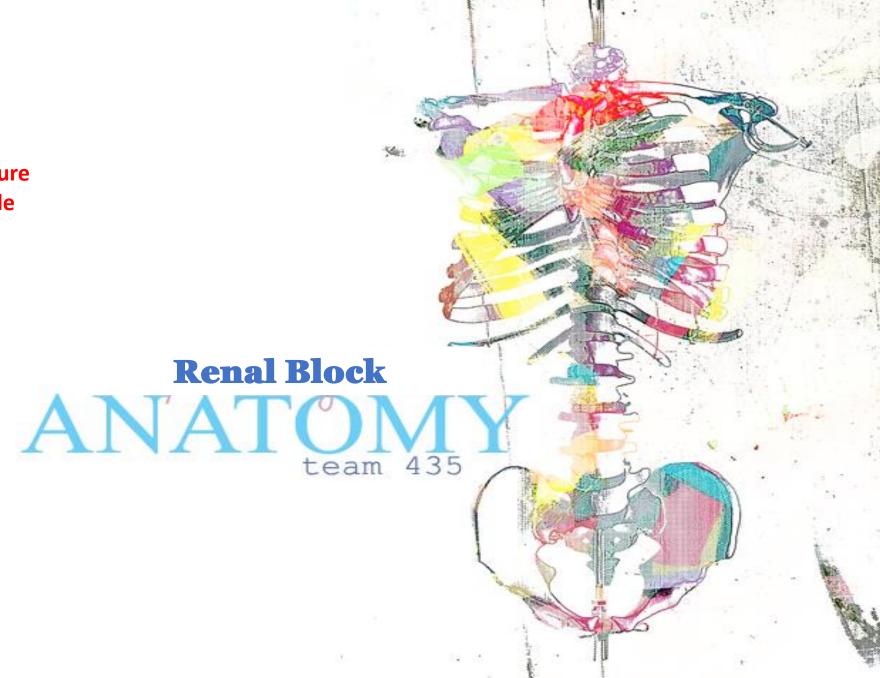


Please study the original lecture before going through this file

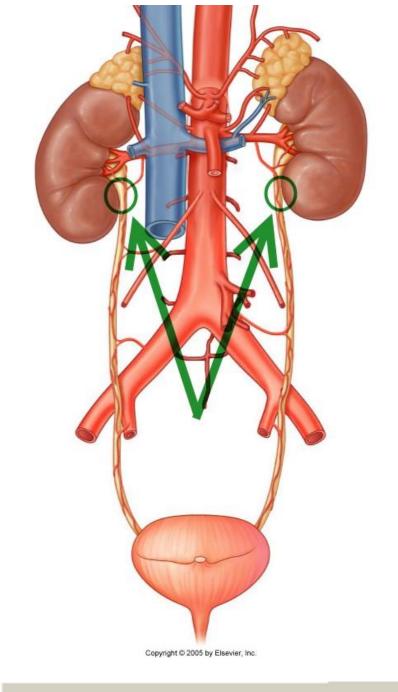




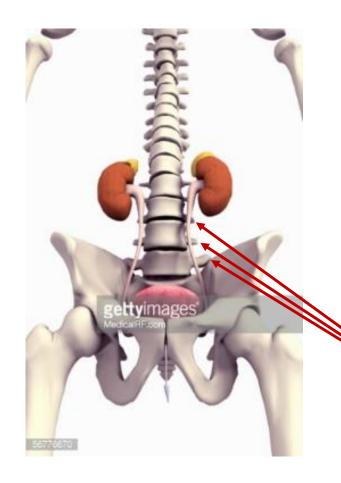
different pics

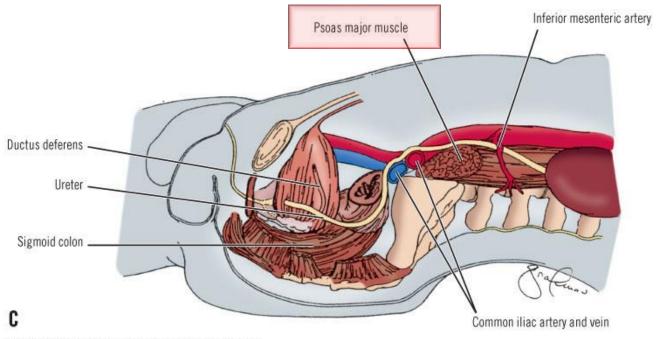
### **Beginning:**

It begins as a continuation of renal pelvis. At the ureteropelvic junction









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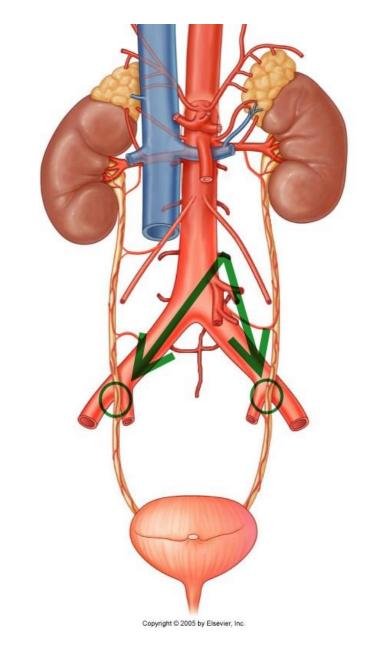
### **Abdominal part:**

Anterior to psoas major (opposite the tips of lumbar transverse processes)



### **Abdominal part:**

It crosses the end (bifurcation) of common iliac artery to enter the pelvis.

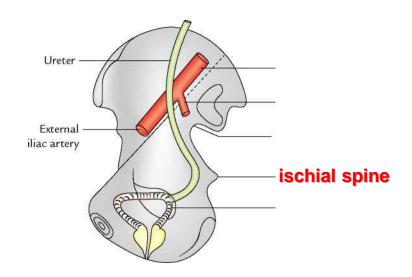


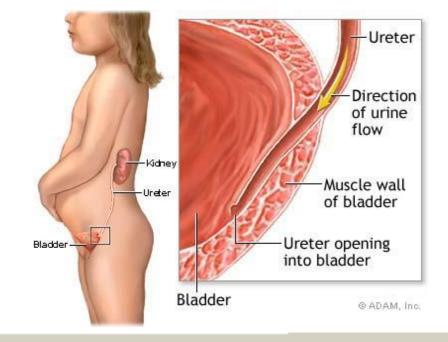


#### **COURSE IN PELVIS & TERMINATION:**

It runs downward & backward to the level of ischial spine.

- It curves forward to open in upper lateral angles of the base of urinary bladder.
- It runs obliquely for ¾ inch in wall of bladder before opening (valve-like part).







## **Ureter**

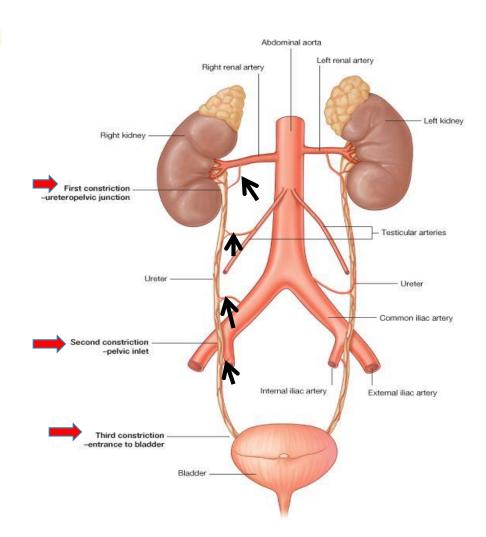
### **Sites of constriction**

**Urologists Passed Exams** 

**U**reteropelvic junction

Pelvic inlet

**E**ntrance of bladder



### **Arterial supply**

Renal artery

 Gonadal artery (testicular artery in males or ovarian artery in females)

Common iliac artery

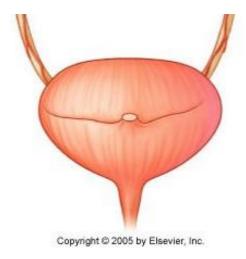
Internal iliac artery



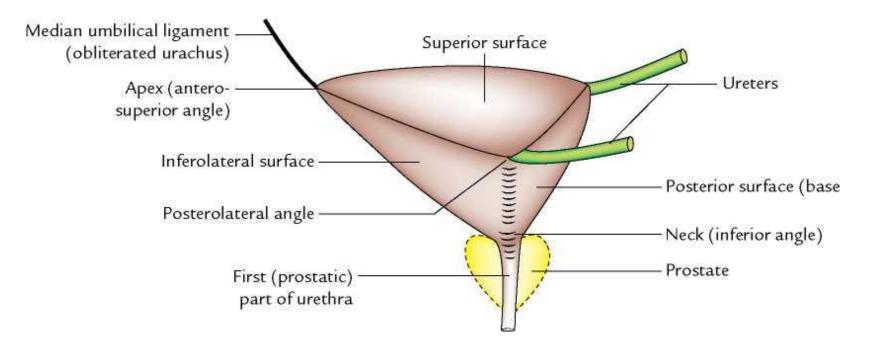
## **Urinary Bladder**

# Shape (Pics only)

#### **Anterior**



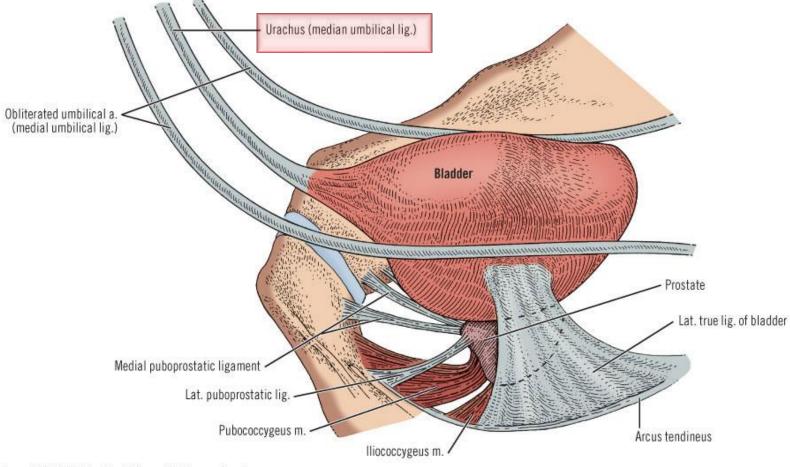
#### **Lateral view**





# Urinary Bladder Apex

- Is related to upper border of symphysis pubis
- Is connected to umbilicus by the median umbilical ligament (remnant of urachus)



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## **Urinary Bladder**

#### Base

#### In MALE:

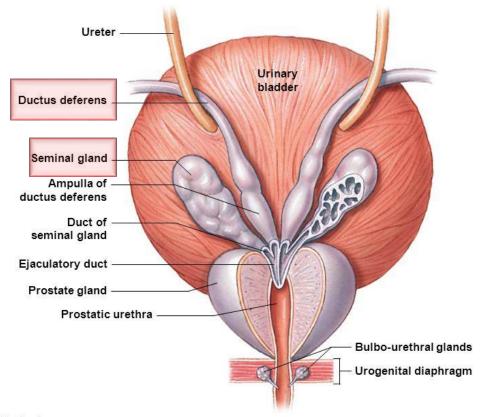
Is related to vas deferens (ductus deferens) & seminal vesicle (seminal glands) of both sides

#### In FEMALE:

Is related to vagina

Figure 27.8a The Ductus Deferens and Accessory Glands

A posterior view of the urinary bladder and prostate gland showing subdivisions of the ductus deferens in relation to surrounding structures.



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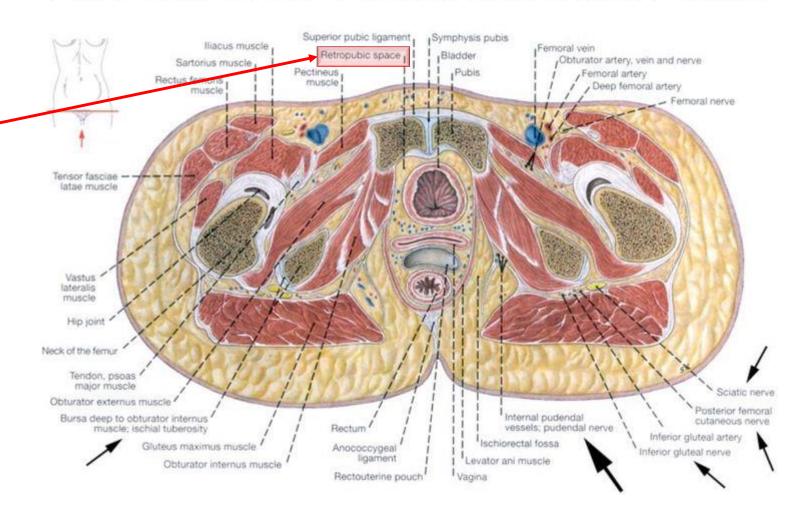


## **Urinary Bladder**

## Infero-lateral surfaces

Are related to retropubic fat separating them from pubic bones

### Full Pelvis Cross Section, Horizontal, Female





## **Urinary Bladder: summary of external structure**

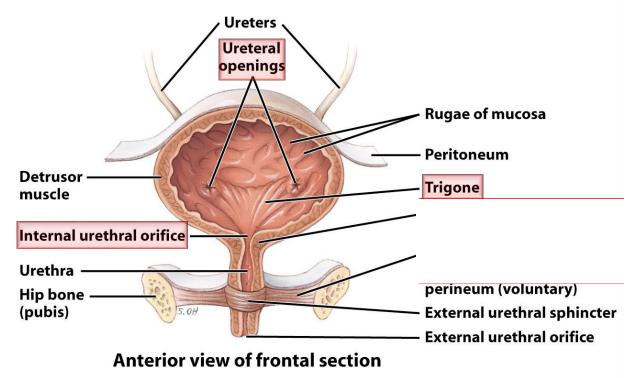
structure	General info	Male relations	Female relations
Apex	median umbilical ligament + median umbilical ligament	Same	
Base		Vas deferens + seminal vesicle	Vagina
Superior surface		coils of ileum + sigmoid colon	Uterus
Inferolateral surface <u>s</u>	related to retropubic fat	Same	
Neck	related to lower border of symphysis pubis	Upper surface of prostate (inferiorly, it rests on the base of prostate)	

Girls' lecture

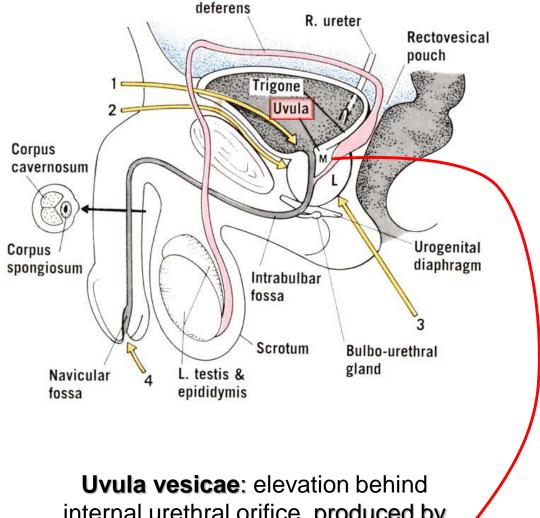
Sensory fibers of blader: transmitting pain due to overdistention of bladder (via general visceral afferent fibres from bldder to CNS).

## **Urinary Bladder: Internal aspect**

Generally it's a folded mucous membrane except for the trigon which is elastic (not folded)



Principles of Anatomy and Physiology, 11/e Wiley & Sons



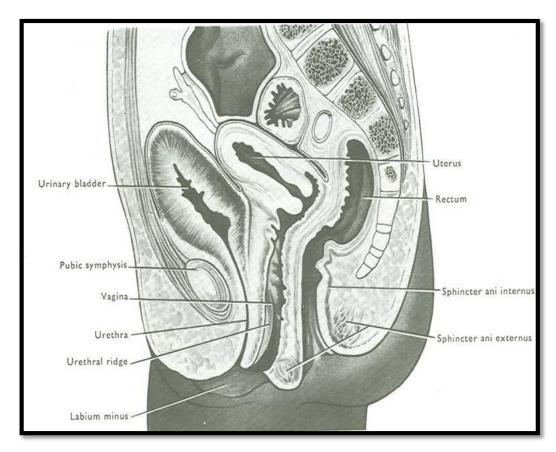
L. ductus

internal urethral orifice, produced by median lobe of prostate gland (M)

## **Urinary Bladder: Postion (Boys' lecture)**

- Is found in abdomen until age of 6 years
- Begins to enter the enlarging pelvis from age of 6 years onward
- Is found entirely in pelvis at puberty

Notice that the apex of bladder isn't at the level of the upper border of symphysis pubis, it is a little higher and when the person has gone through puberty it will finish descending at that level



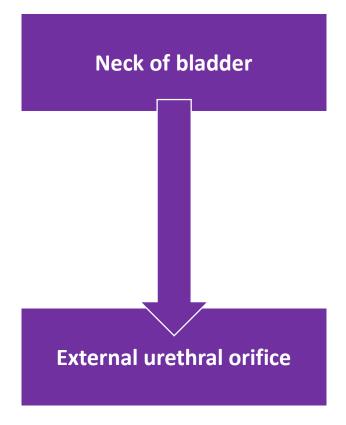
A median sagittal section of a newborn female child



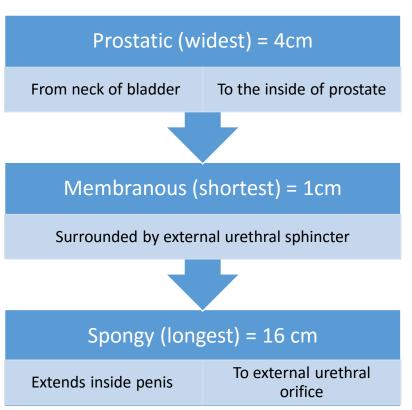
## **Urethra: Male & Female**

/	Male	Female
length	20 cm	4 cm
sections	Prostatic Membranous spongy	
Openings	Ejaculatory ducts + ducts of prostate	None (only urinary function)

#### **Urethra course: female**

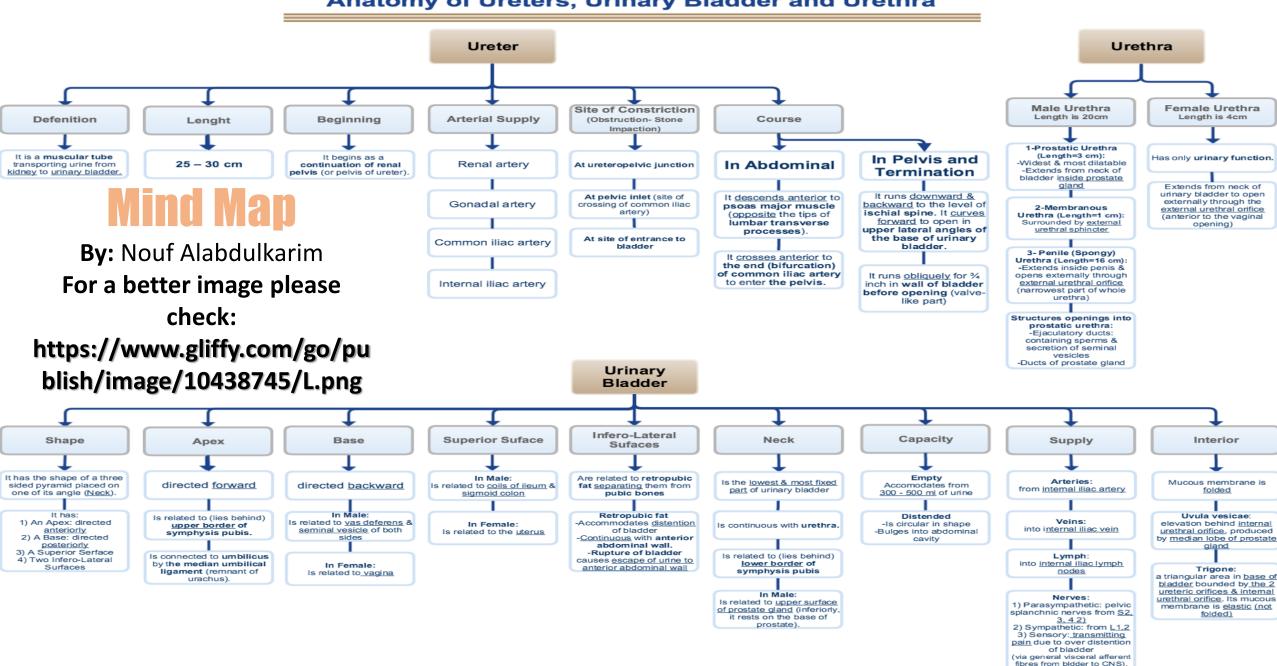


#### **Urethra course:** male





#### Anatomy of Ureters, Urinary Bladder and Urethra



- The length of the ureter is:
  - A. 20 25
  - B. 25 30
  - C. 20 30
  - D. 15 25
- In abdomen, the ureter is anterior to:
  - A. Psoas Minor
  - B. Quadratus Lumborum
  - Transversus Abdominis
  - D. Psoas Major
- The ureters will keep going downward and backward till they reach the level of:
  - A. Symphysis pubis
  - Ala of ilium
  - Ischial spine
  - D. Coccyx
- Which is the **first** common site of constriction of ureters:
  - A. Ureteropelvic junction
  - B. Pelvic inlet
  - Level Common iliac artery bifurication
  - D. Bladder entrance



- (T



- (8
- (5

- 5) Which is not participating in Arterial supply of ureter:
  - A. Ovarian artery (gonadal)
  - B. Renal
  - C. External iliac
  - D. Internal iliac
- The apex of bladder is connected to the umbilicus via:
  - A. Medial Umbilical ligament
  - B. Median Umbilical ligament
  - Inguinal ligament
  - D. Psoas Major
- 7) The base of bladder is related in males to:
  - A. Vas deferens
  - B. Seminal Vesicle
  - C. A&B
  - D. Vagina
- In females, the upper surface of the bladder is related to:
  - A. Sigmoid colon
  - Ileum
  - Uterus
  - D. None of above

- 1) If the bladder raptures towards the anterior abdominal wall the urine will escape to:
  - A. Uterus
  - B. Vagina
  - C. Prostate
  - D. Retropubic fat
- 2) Related to lower border of symphysis pubis:
  - A. Apex of bladder
  - B. Ureter
  - C. Urethra
  - D. Neck of bladder
- 3) Related to upper border of symphysis pubis:
  - A. Apex of bladder
  - B. Ureter
  - C. Urethra
  - D. Neck of bladder
- 4) Uvula vesicea is an elevation caused by:
  - A. Lower lobe of Prostate
  - B. Symphysis Pubis
  - C. Median lobe of prostate
  - D. Anterior lobe of prostate



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- 5) The bladder is interiorly folded except for the which is :
  - A. Trigon, non elastic
  - B. Uvula vesicae, Folded
  - C. Trigon, elastic
  - D. Uvula vesicae, non elastic
- 6) Which is NOT found in the trigon area:
  - A. Internal urethral orifice
  - B. External urethral orifice
  - C. Ureteric orifices
  - D. All of above
- 7) The openings found in male urethra are:
  - A. B&D
  - B. Ejaculatory ducts
  - C. None
  - D. Ducts of prostate
- 8) In males, the widest part of the urethra is:
  - A. Prostatic
  - B. Spongy
  - C. Membranous
  - D. None of above

هذا العمل إجتهاد من طلاب و طالبات إن أصبنا فمن الله وإن أخطأنا فمن أنفسنا و من الشيطان

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