



MED437  
KING SAUD UNIVERSITY



# OSPE

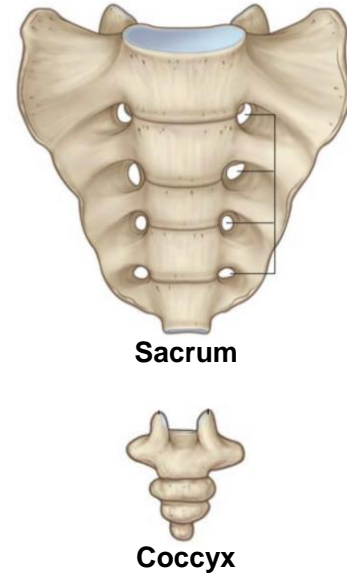
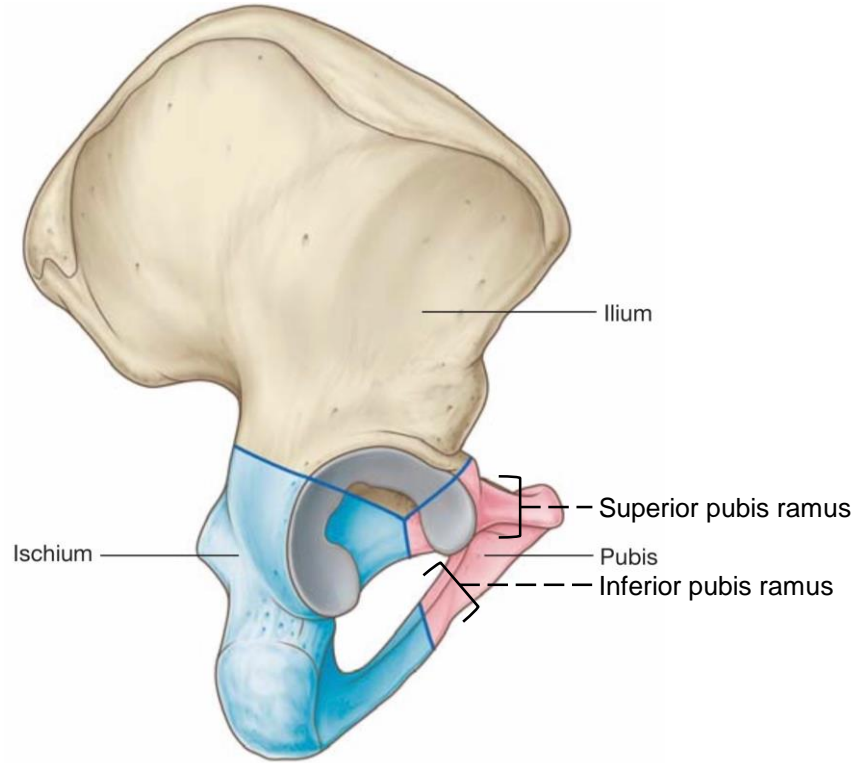
Reproductive Block

{وَمَنْ يَتَوَكَّلْ عَلَى اللَّهِ فَهُوَ حَسْبُهُ}

# Pelvic Bones & Muscles

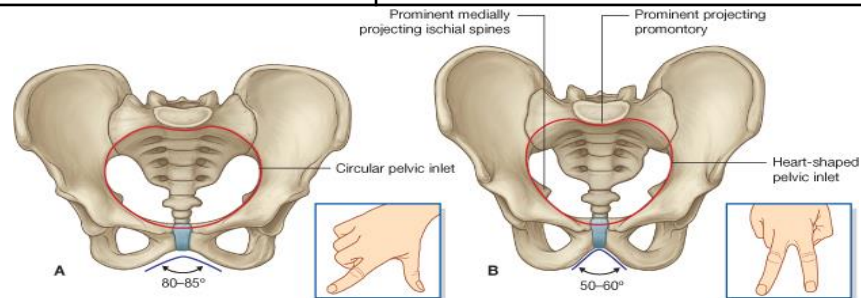
- Identify the structure (name of the bone/muscle)
- You should determine the position (left or right) of the structure
- You should know the different between male & female pelvic
- You should know the muscles attachments of the pelvic bones

# Pelvic Bones



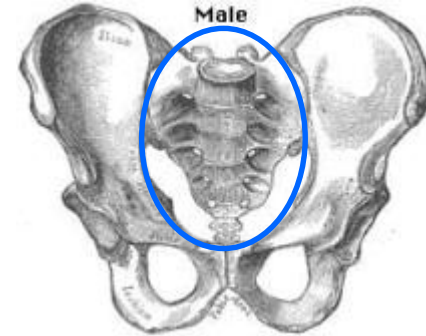
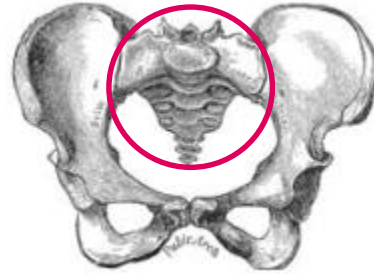
# Differences between Male & Female PELVIC

Difference	FEMALE ♀	MALE ♂
General structure	Thin, smaller & lighter	Thick & heavy
False (major) pelvis	Shallow	Deep
True (lesser) pelvis	Wide & shallow	Narrow & deep
Pelvic inlet	Oval or rounded	Heart shaped
Pelvic outlet	Larger	Small
Pubic arch angle	Wide	Narrow
Obturator foramen	Wider & more triangular	Oval
Pelvic cavity	Wide	Less & small

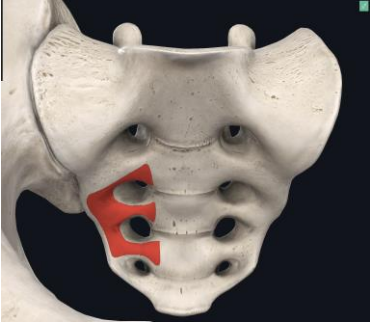
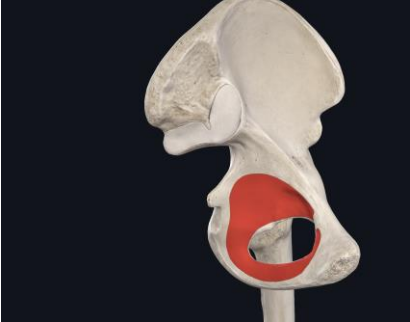
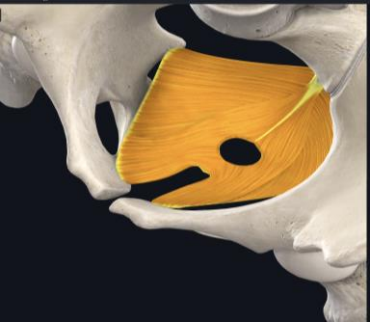


# Differences between Male & Female SACRUM


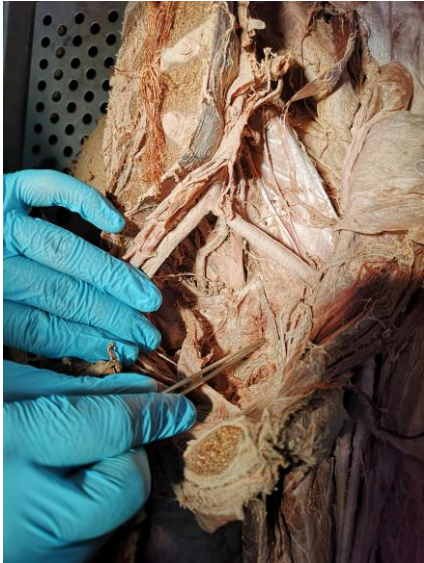

Difference	FEMALE ♀	MALE ♂
Length	Shorter	Longer
Breadth	Wider	Narrower
Curvature	Less curved	More curved



# Pelvic Walls Muscles



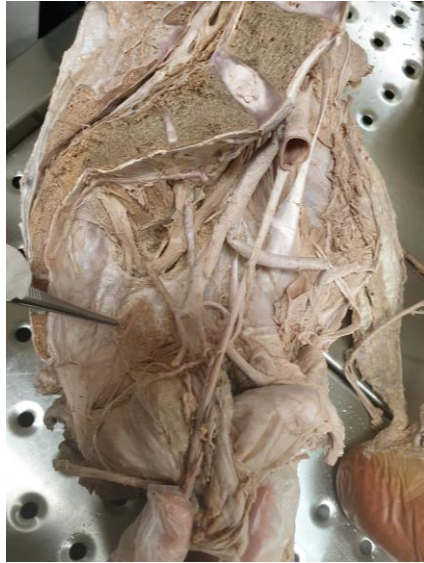
<b>Piriformis muscle</b>	<b>Obturator internus muscle</b>	<b>Levator ani muscle</b>
<p>origin from: <b>Front of S2,3,4 vertebrae</b></p>	<p>origin from: <b>Inner Surface of the obturator membrane</b></p>	<p>Linear origin from:</p> <ol style="list-style-type: none"><li>1- <b>Back of the body of pubis</b></li><li>2- <b>Tentidinous arch of oberator fascia</b></li><li>3- <b>Spine of ischium</b></li></ol>
		

# Pelvic Walls Muscles

Piriformis muscle	Obturator internus muscle	Levator ani muscle
Posterior pelvic wall (behind the sacral plexus)	Lateral pelvic wall	Pelvic floor
		



# Pelvic Walls Muscles

Piriformis muscle	Obturator internus muscle	Levator ani muscle
Posterior pelvic wall (behind the sacral plexus)	Lateral pelvic wall	Pelvic floor
		





# CASE 1

**Q1: Identify which half of the hip is this?**

Left half

**Q2: Identify structure (A)?**

Superior pubis ramus

**Q3: Identify structure (C)?**

Iliac bone

**Q4: The area (D) is the origin of which muscle?**

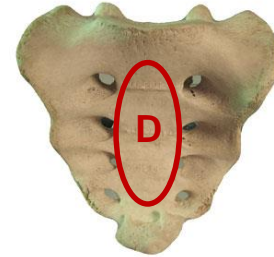
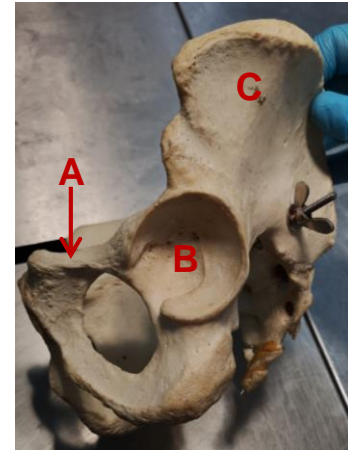
Piriformis muscle

**Q5: What is insertion, nerve supply & action of Piriformis muscle?**

**Insertion** (Greater trochanter of the femur)

**Action** (Lateral rotator of the thigh)

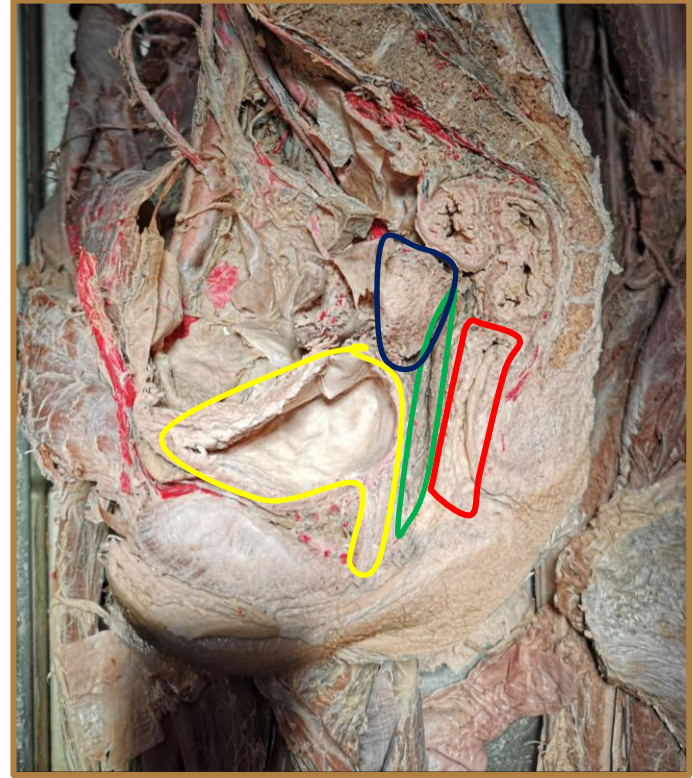
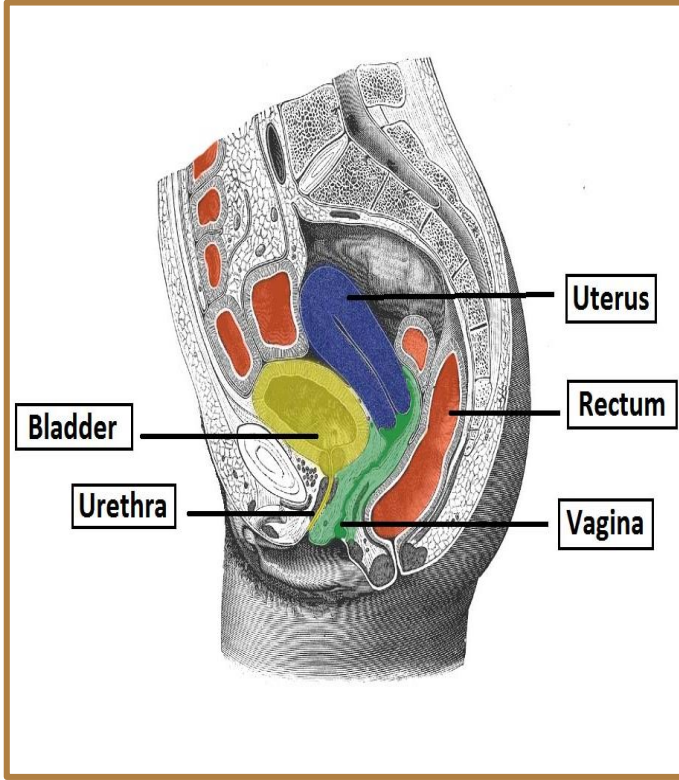
**Innervation** (Sacral plexus)



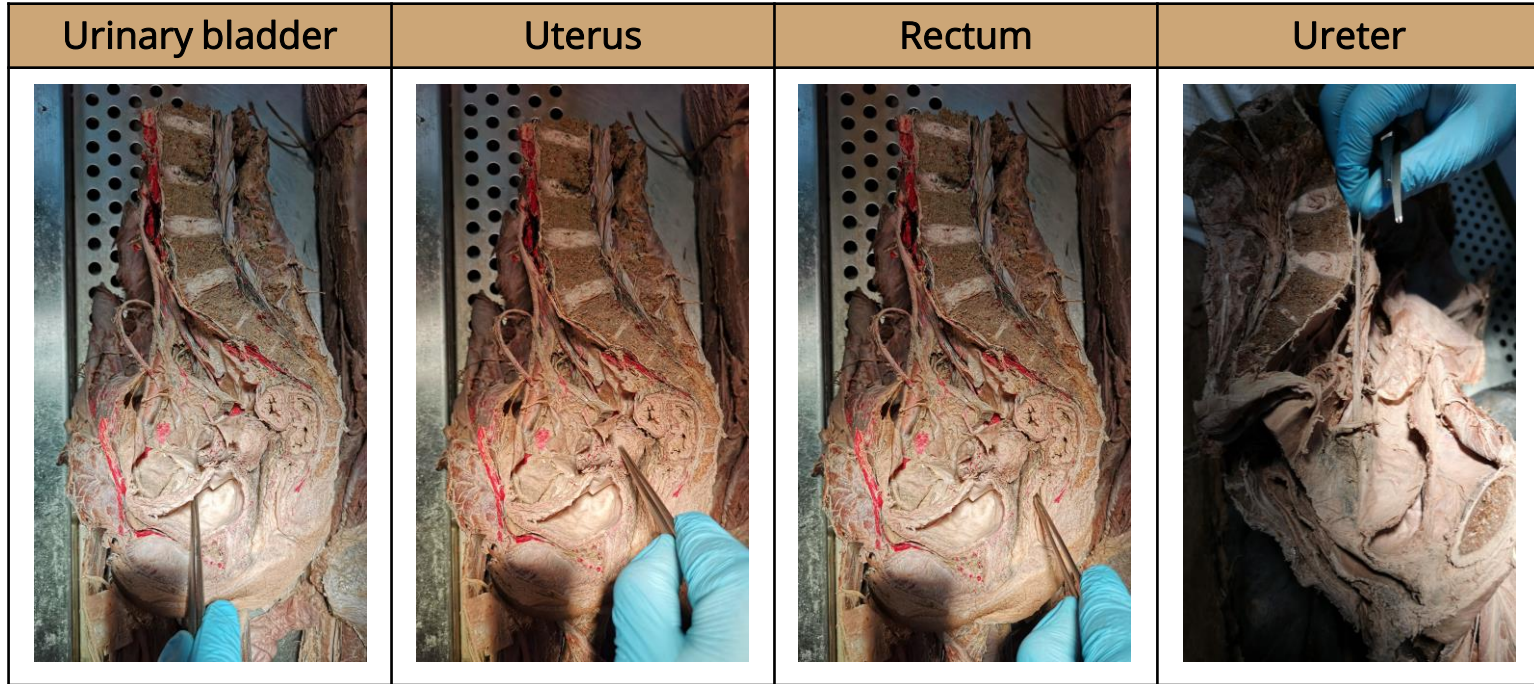
# Pelvic organs (FEMALE)

- Identify the structure (name of the organ)
- You should know the organs of the female reproductive system
- You should know the relations & blood supply of the organs of the female reproductive system

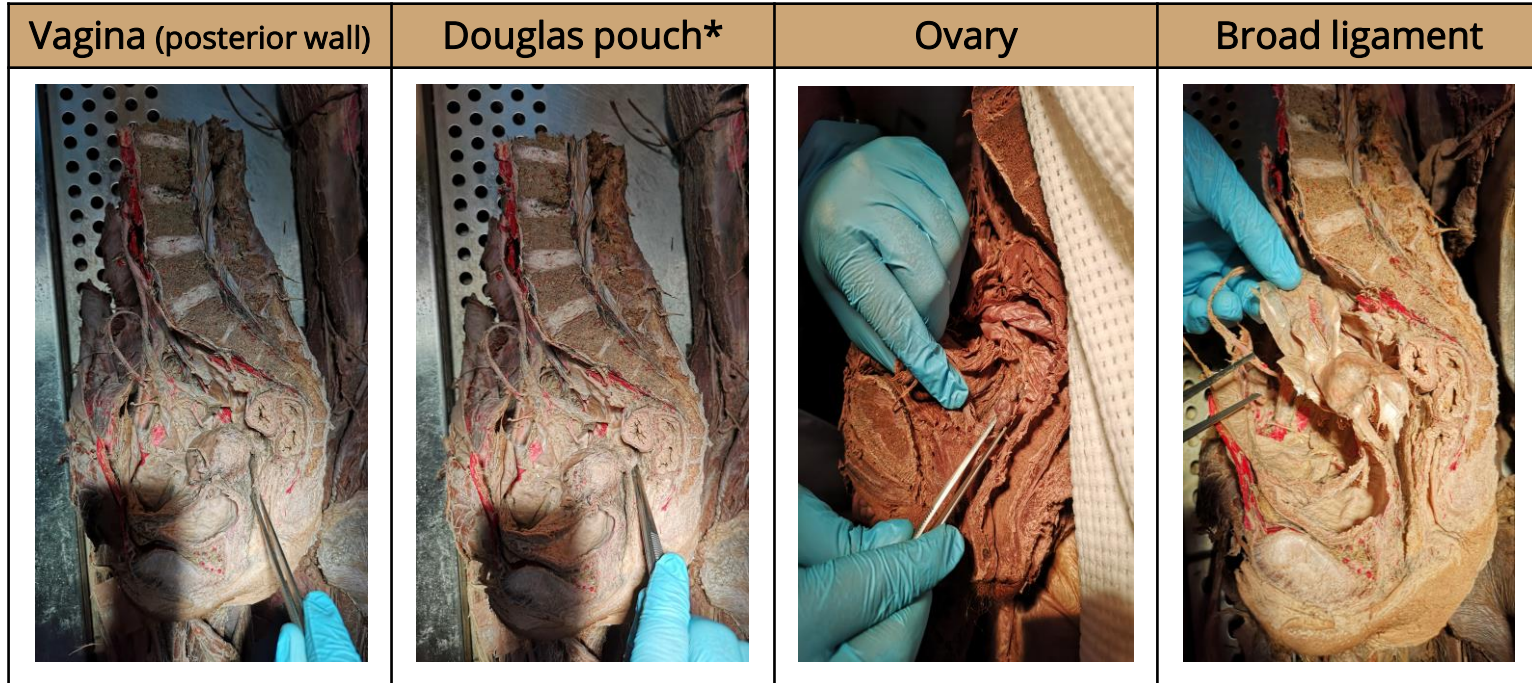
# Female Reproductive System



# Female Reproductive System



# Female Reproductive System



\*Douglas (Rectouterine) pouch: Reflection of peritoneum from rectum to upper part of posterior surface of vagina (posterior fornix)



# Female Reproductive System (Relation)

Organ		Anterior	posterior	Lateral
Uterus	Vaginal part of cervix	Anterior fornix of vagina	Posterior fornix of vagina	Lateral fornix of vagina
	Other parts	Superior surface of urinary bladder	Sigmoid colon	Uterine artery
Vagina	Pelvis	Urinary bladder	Rectum	Ureters
	Perineum	Urethra	Anal canal	-

# Female Reproductive System (Blood supply)

Organ	Arteries	Veins
Ovaries	Ovarian Artery from Abdominal Aorta	Ovarian Vein to inferior vena cava (Right ovary) or to left renal vein (left ovary)
Fallopian Tube	Ovarian Artery Uterine Artery	Ovarian Vein Uterine Vein
Uterus	Uterine Artery from Internal iliac artery	Uterine Plexus to internal iliac vein
Vagina	Vaginal Artery from Internal iliac artery	Vaginal Plexus to internal iliac vein
Urinary Bladder	Superior vesical Artery Vaginal Artery	Internal iliac vein

# CASE 2

**Q1: Identify the gender of the pelvis provided?**

Female

**Q2: Identify structure (A)?**

Rectum

**Q3: Identify the blood supply of structure (B)?**

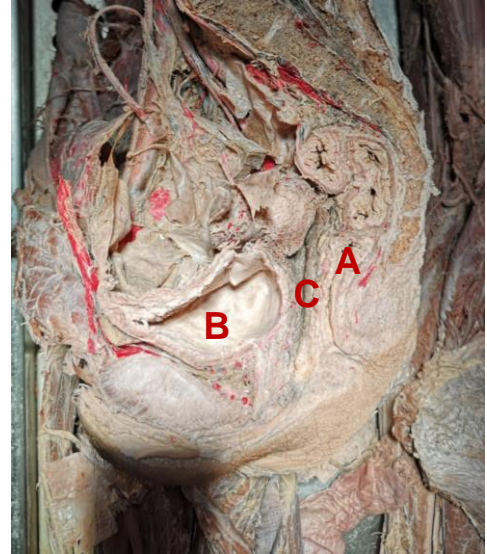
- Arteries → Superior vesical Artery & Vaginal Artery
- Veins → Internal iliac vein

**Q4: Identify the Anterior relation of structure (C)?**

- In the pelvis → Urinary bladder
- In the perineum → Urethra

**Q5: What is the part of uterus?**

Fundus, body & cervix





# Pelvic organs (MALE)

- Identify the structure (name of the organ)
- You should know the organs of the male reproductive system
- You should know the segments of the male urethra
- You should know the relations & blood supply of the organs of the male reproductive system

# Male Reproductive System

Symphysis Pubis



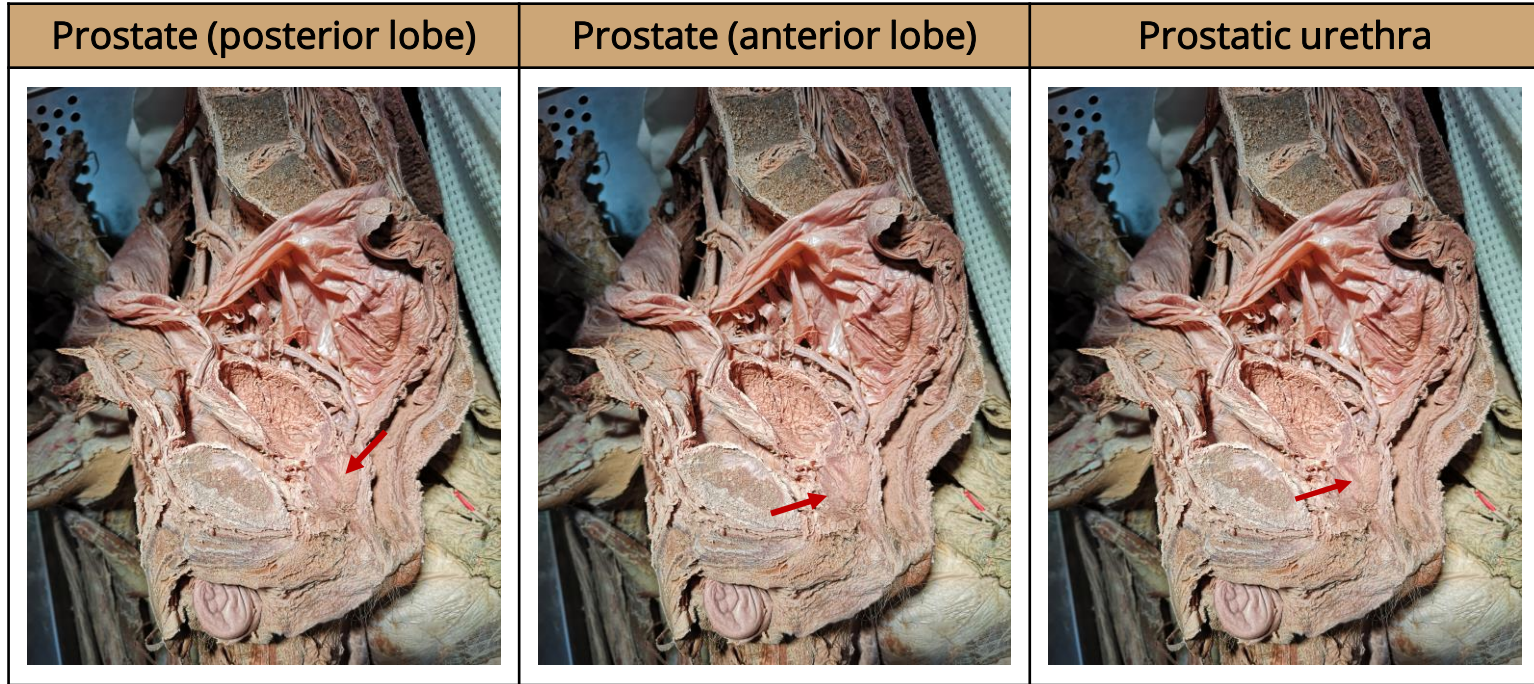
Urinary bladder



Rectum



# Male Reproductive System



# Male Reproductive System

Scrotum



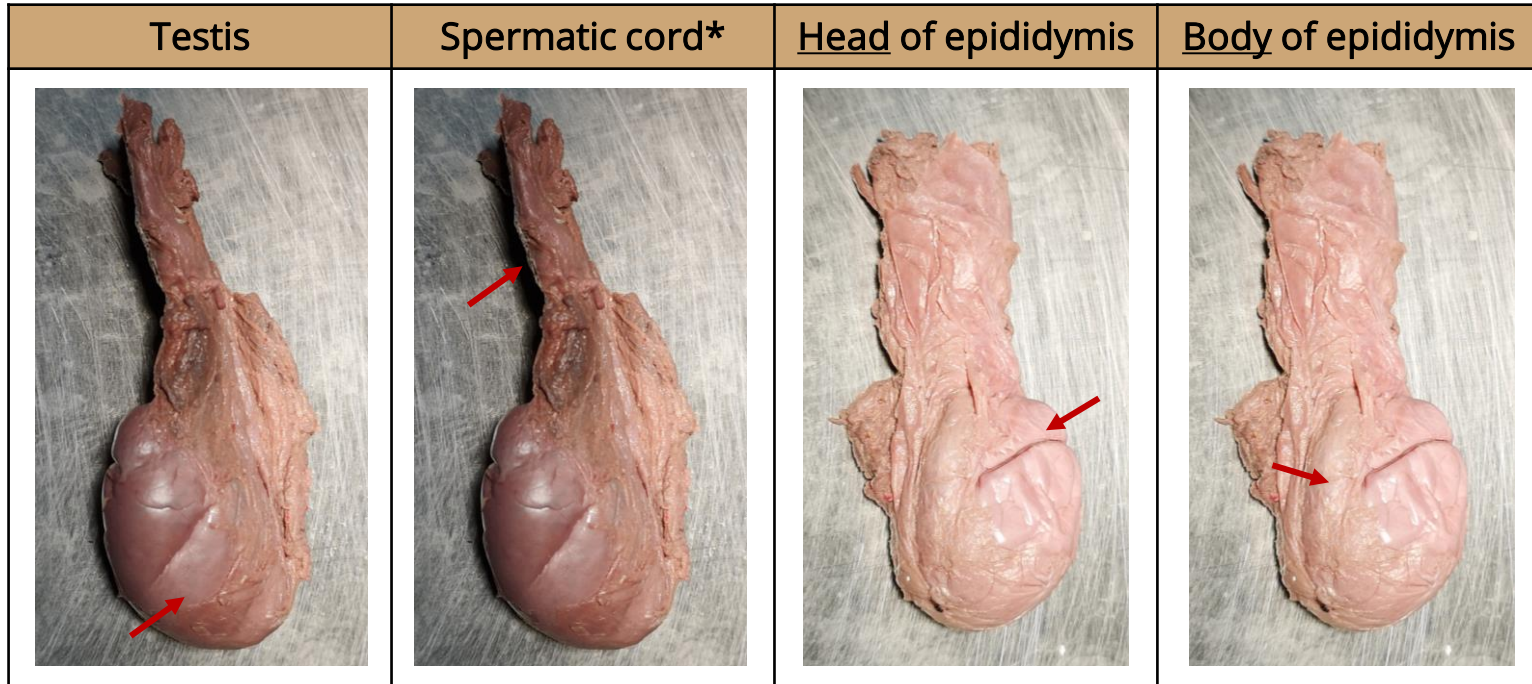
Seminal Vesicles



Vas deferens

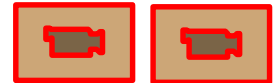


# Male Reproductive System



\*Spermatic cord content :

- **Arteries** (testicular artery, deferential artery, cremasteric artery)
- **Vas deferens** (ductus deferens)
- **Pampiniform plexus & Lymphatic vessels**
- **Tunica vaginalis** (remains of processus vaginalis)
- **Nerves:** nerve to cremaster and testicular nerves (sympathetic nerves)



# Male Reproductive System (Relations)

	Prostate
Anterior	Symphysis pubis
Posterior	Rectum
Superior	Neck of the bladder or internal urethral orifice
Inferior	Urogenital diaphragm
Lateral	levator ani muscles

# Male Reproductive System (Blood supply)

Organ	Arteries	Veins
Testis	Testicular Artery from Abdominal Aorta	Pampiniform Plexus of veins unite to form Testicular vein drain to inferior vena cava (Right testis) or to left renal vein (left testis)
Prostate	Inferior vesical Artery from Internal iliac artery	Prostatic venous Plexus to internal iliac vein
Urinary Bladder	Superior vesical Artery Inferior vesical Artery	Internal iliac vein

# CASE 3

**Q1: Identify the side of the testis?**

Right side

**Q2: Identify structure (A)?**

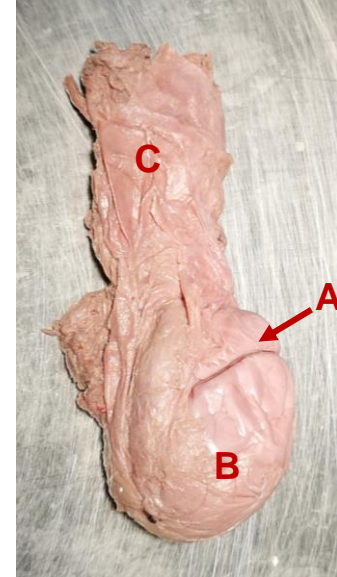
Head of **epididymis**

**Q3: Mention the blood supply of structure (B)?**

- Arteries → Testicular Artery from Abdominal Aorta
- Veins → Pampiniform Plexus of veins unite to form Testicular vein drain to inferior vena cava (Right ovary) or to left renal vein (left ovary)

**Q4: Mention 3 of the contents of the structure (C)?**

- Arteries (testicular artery, deferential artery & cremasteric artery)
- Vas deferens (ductus deferens)
- Pampiniform plexus







MED437  
KING SAUD UNIVERSITY



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Good luck ❤️

Rawan Alharbi & Faisal Alsaif

{وَمَنْ يَتَوَكَّلْ عَلَى اللَّهِ فَهُوَ حَسْبُهُ}