

OSPE

RENAL BLOCK

- Color Code**
- Nerves
 - Muscles
 - Arteries
 - Lymphatics
 - Veins

اللهم لا سهل إلا ما جعلته سهلاً وأنت تجعل الحزن إذا شئت سهلاً

Important Points

1. Read the questions **carefully**.
2. Make sure you write the FULL name of the structures with the correct **spelling**.

Example: SVC ✗ → Superior Vena Cava ✓

Thoracic aorta ✗ → Descending thoracic aorta ✓

3. There is NO guarantee whether or not the exam will go out of this file.

Good luck!

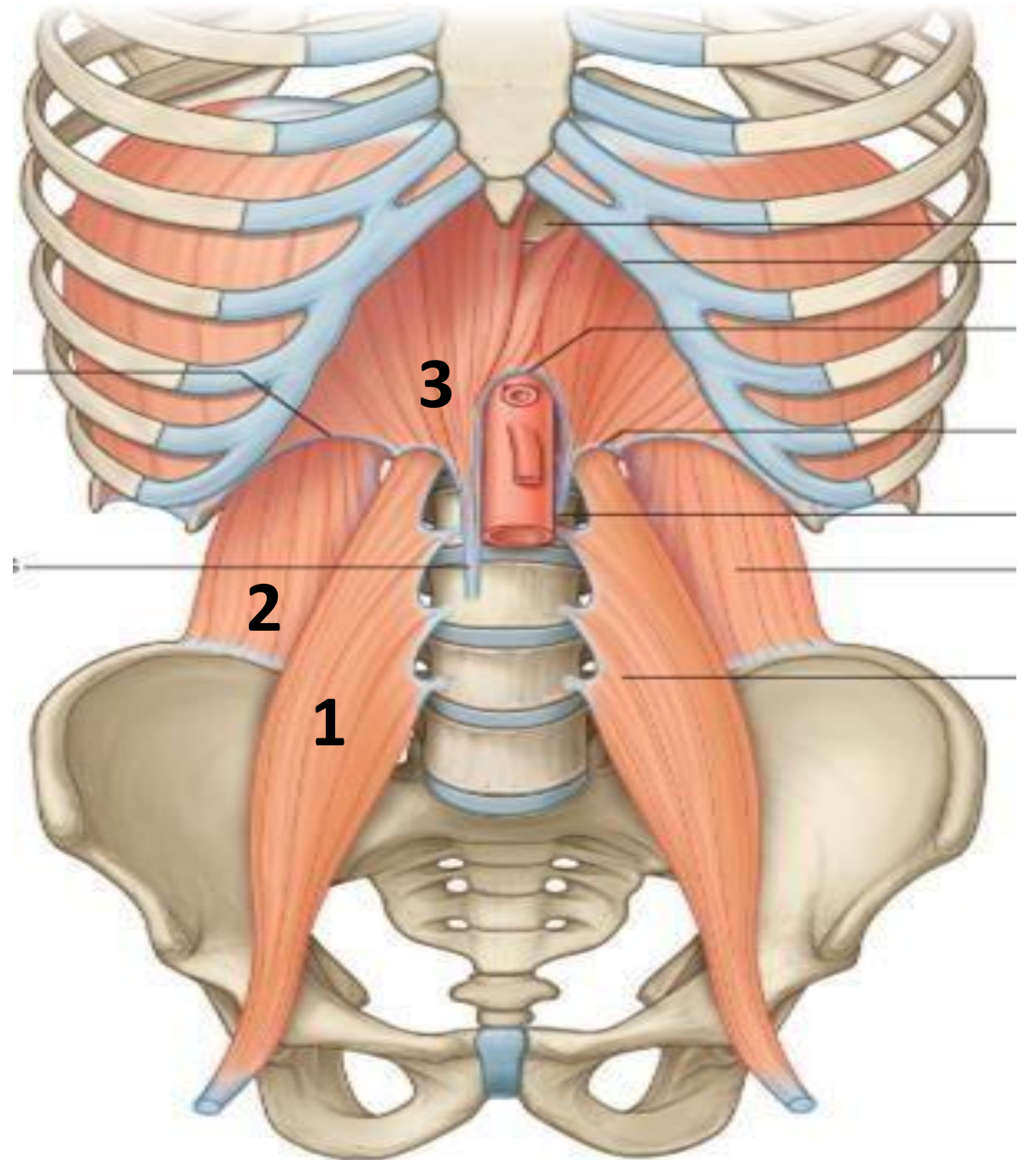
Q 1

Identify the muscles:

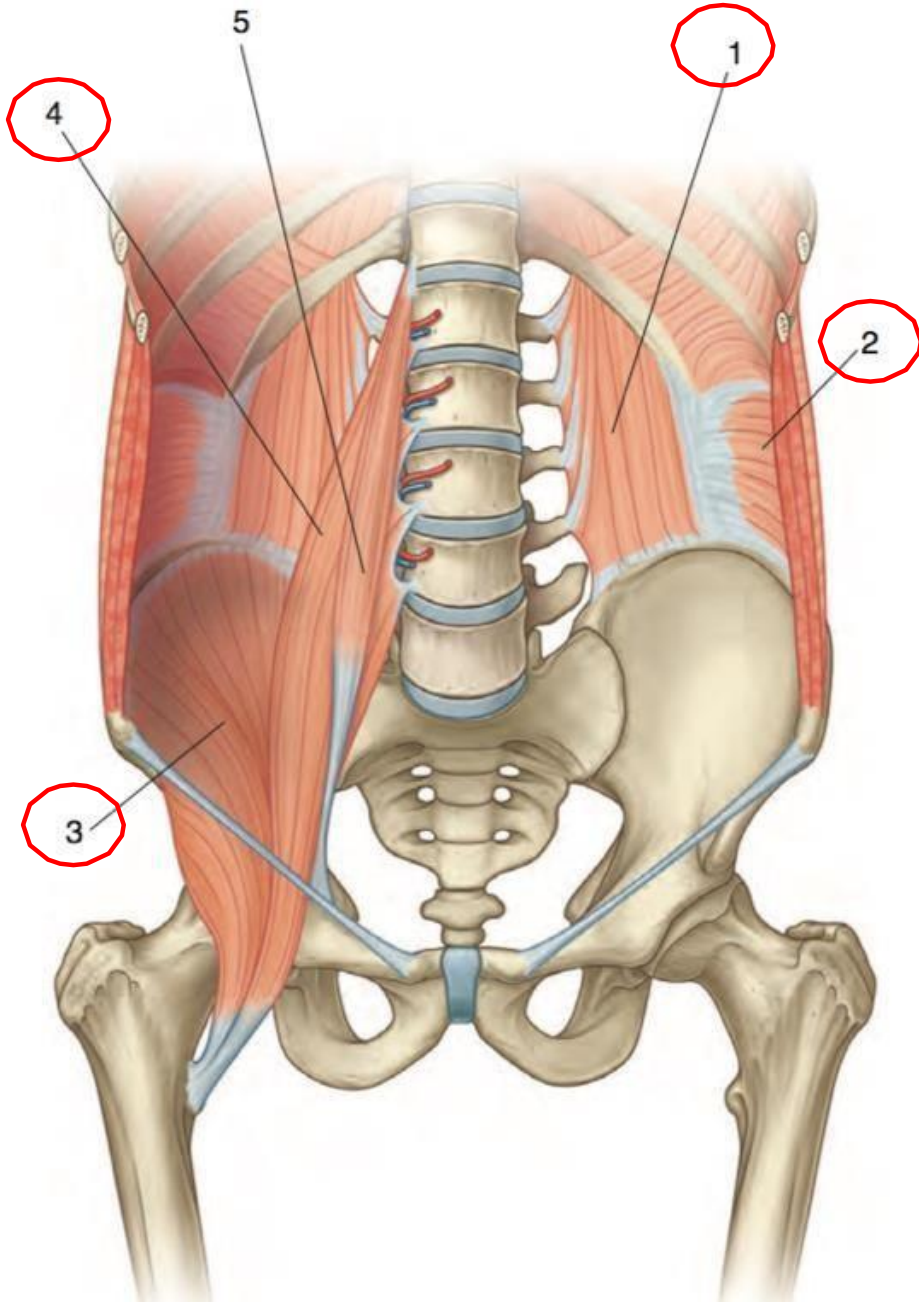
1- Psoas major

2- Quadratus lumborum

3- Diaphragm



Identify the indicated muscles of the posterior abdominal wall.



1. Quadratus lumborum muscle
2. Transversus abdominis muscle
3. Iliacus muscle
4. Psoas major muscle
5. Psoas minor muscle

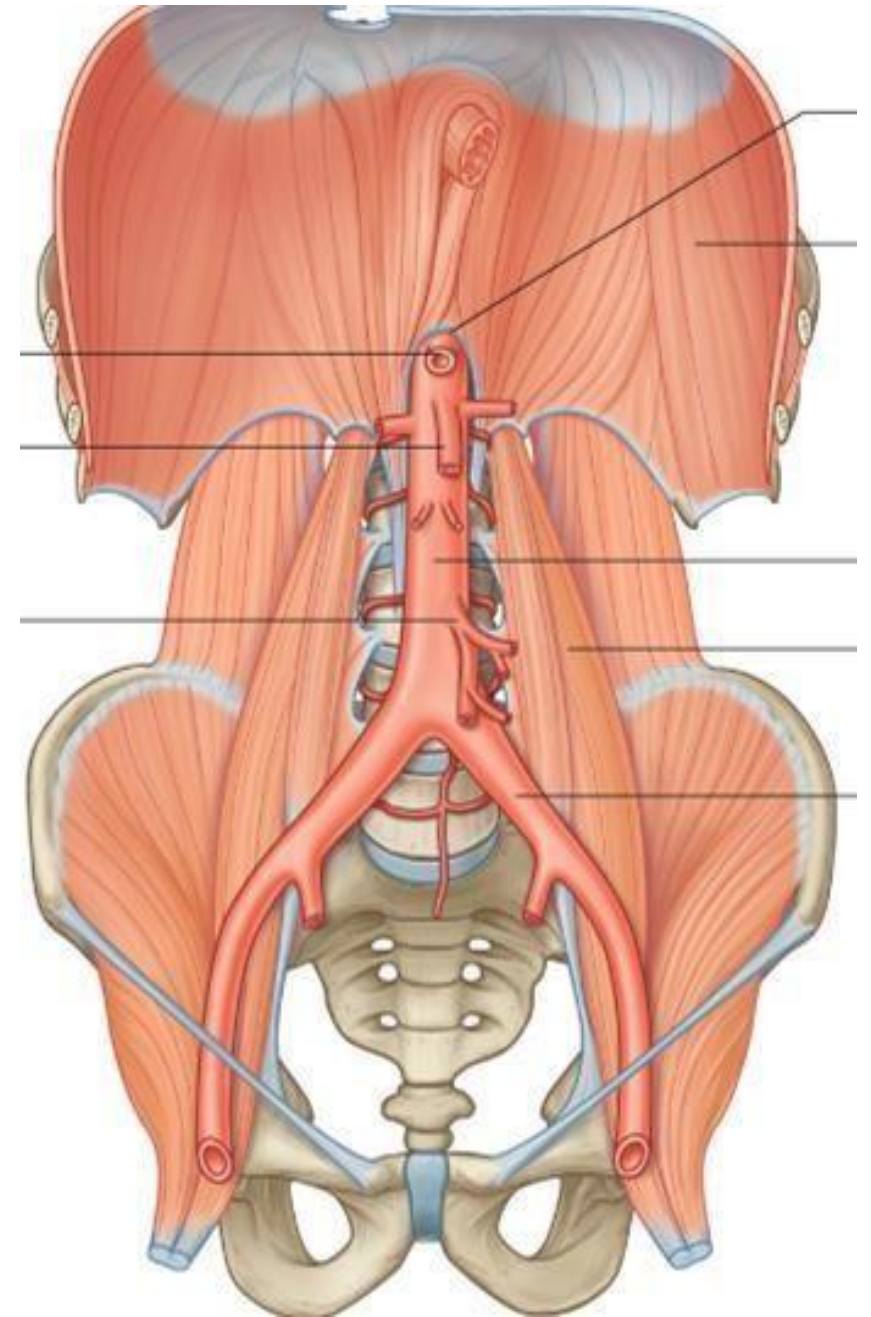
Note: These muscles are part of the posterior abdominal wall and are **posterior relations** of the **kidney**.

Q 2

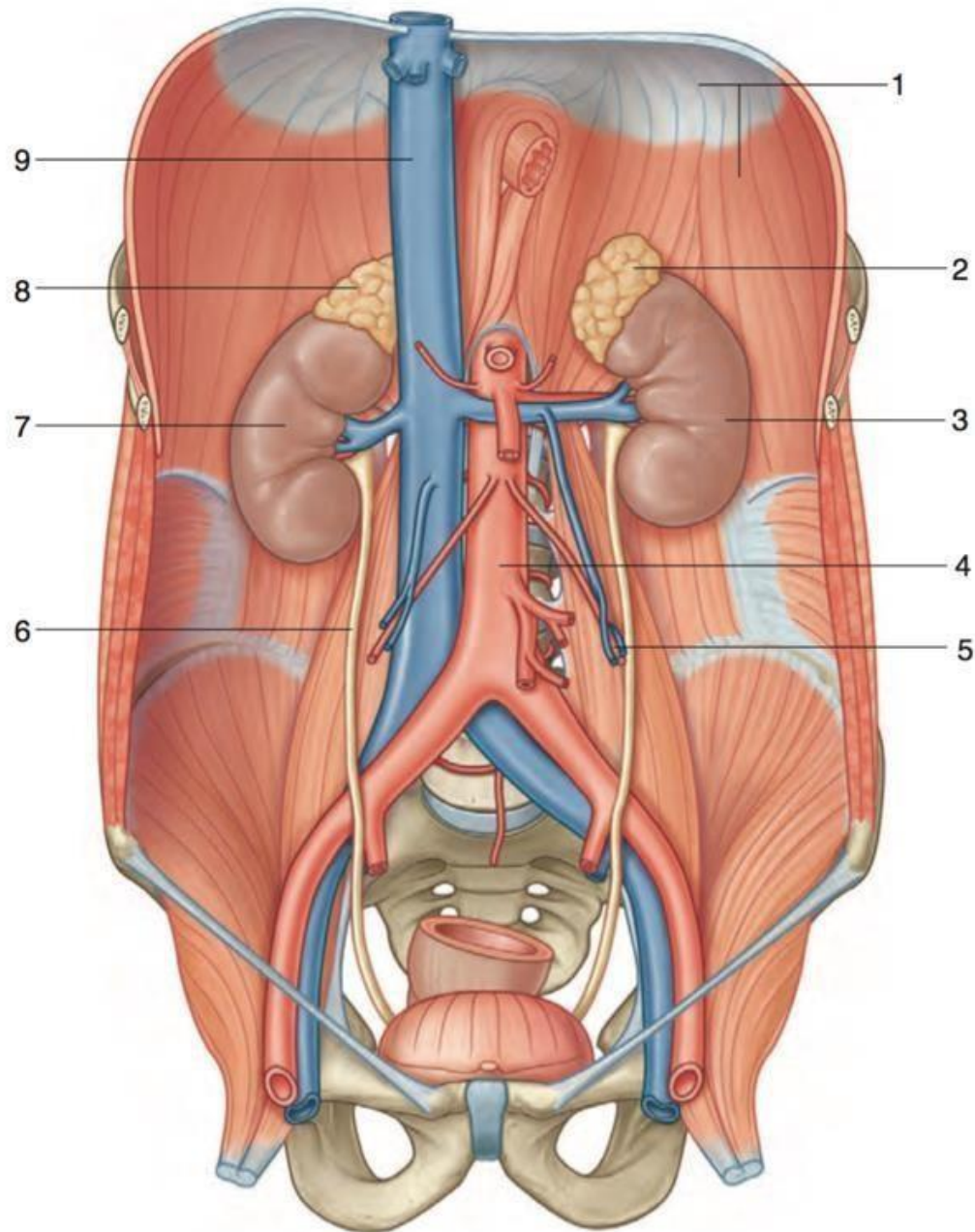
- 1- The **renal** artery arises from abdominal aorta.
- 2- The level of the **renal** artery is L2.
- 3- The **renal** veins drain into inferior vena cava.
- 4- The **right renal** vein is shorter than the **left renal** vein

Identify **two** veins that drain into the left renal vein:

- 1- **Left suprarenal vein**
- 2- **Left gonadal vein**

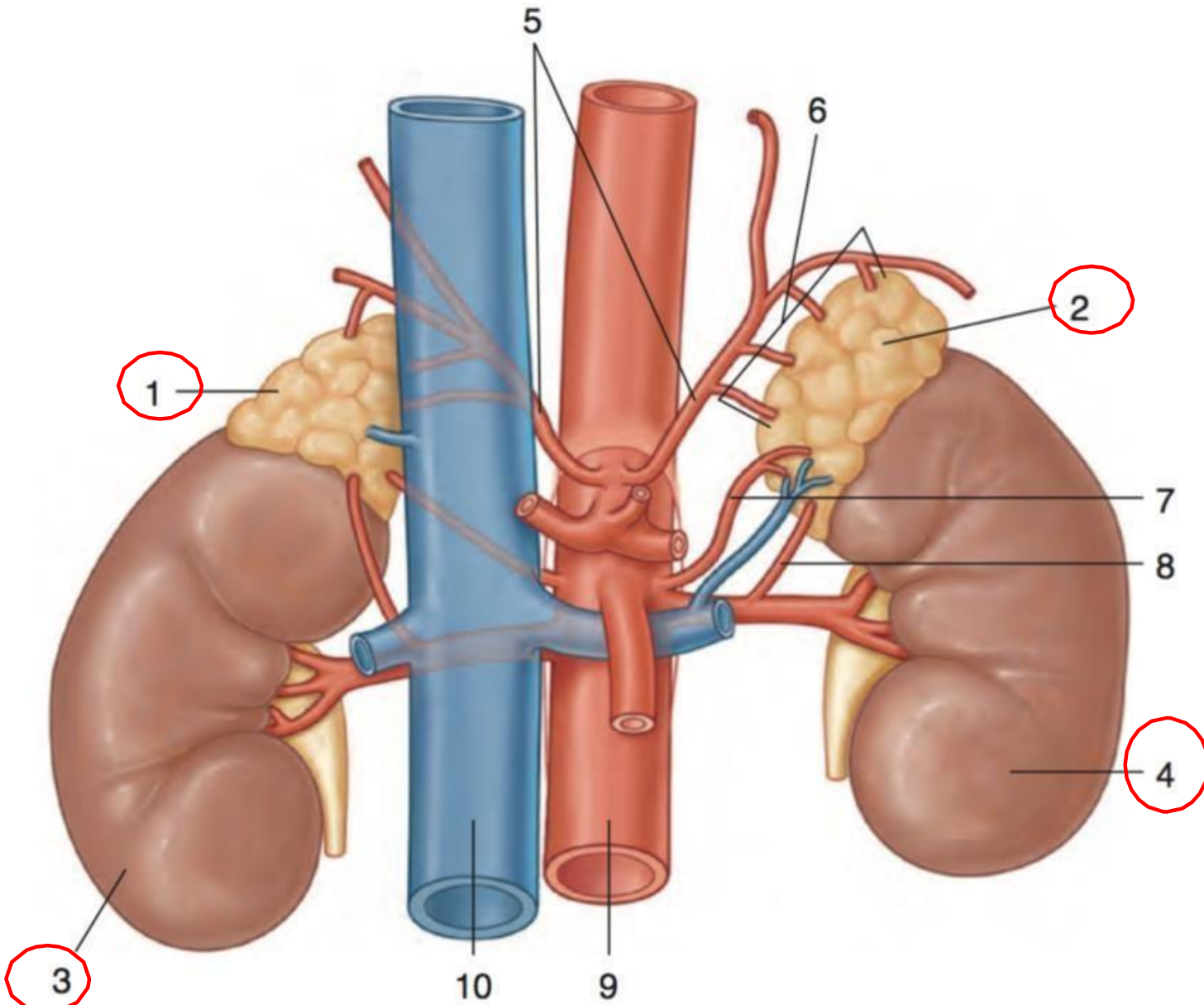


Identify the indicated structures in the posterior abdominal region.



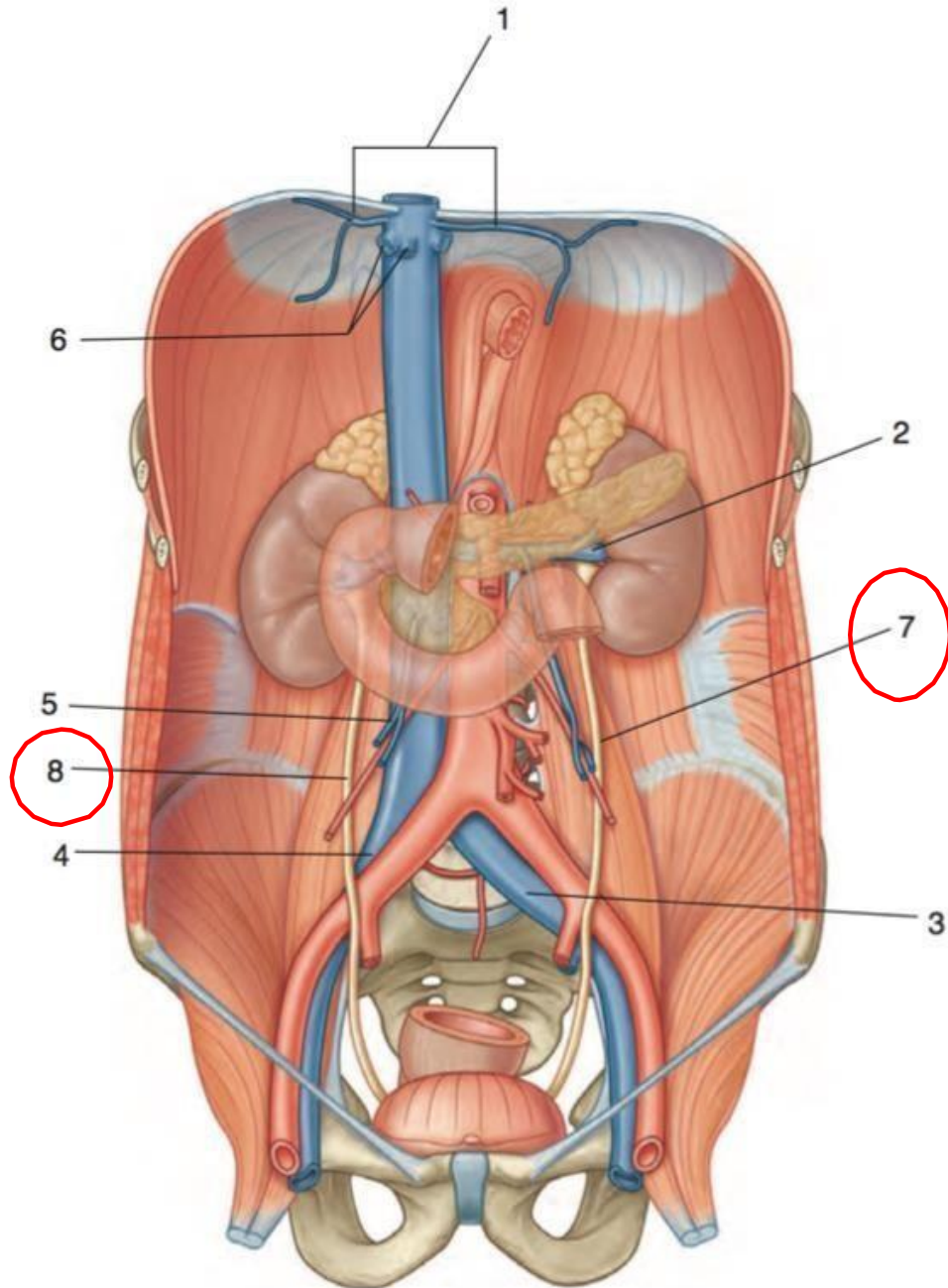
- 1. Diaphragm**
- 2. Left suprarenal gland**
- 3. Left kidney**
- 4. Abdominal aorta**
- 5. Left gonadal vessels**
- 6. Right ureter**
- 7. Right kidney**
- 8. Right suprarenal gland**
- 9. Inferior vena cava**

Identify indicated structures related to the renal and suprarenal glands.



- 1. Right suprarenal gland**
- 2. Left suprarenal gland**
- 3. Right kidney**
- 4. Left kidney**

Identify the indicated tributaries to the inferior vena cava.



7. Left ureter

8. Right ureter

Sites of Constrictions in the ureter:

1. At **ureteropelvic** junction
2. At **pelvic inlet** (site of crossing of **common iliac** artery)
3. At site of **entrance to bladder**

Q 3

Identify :

A- Right adrenal (or suprarenal) gland

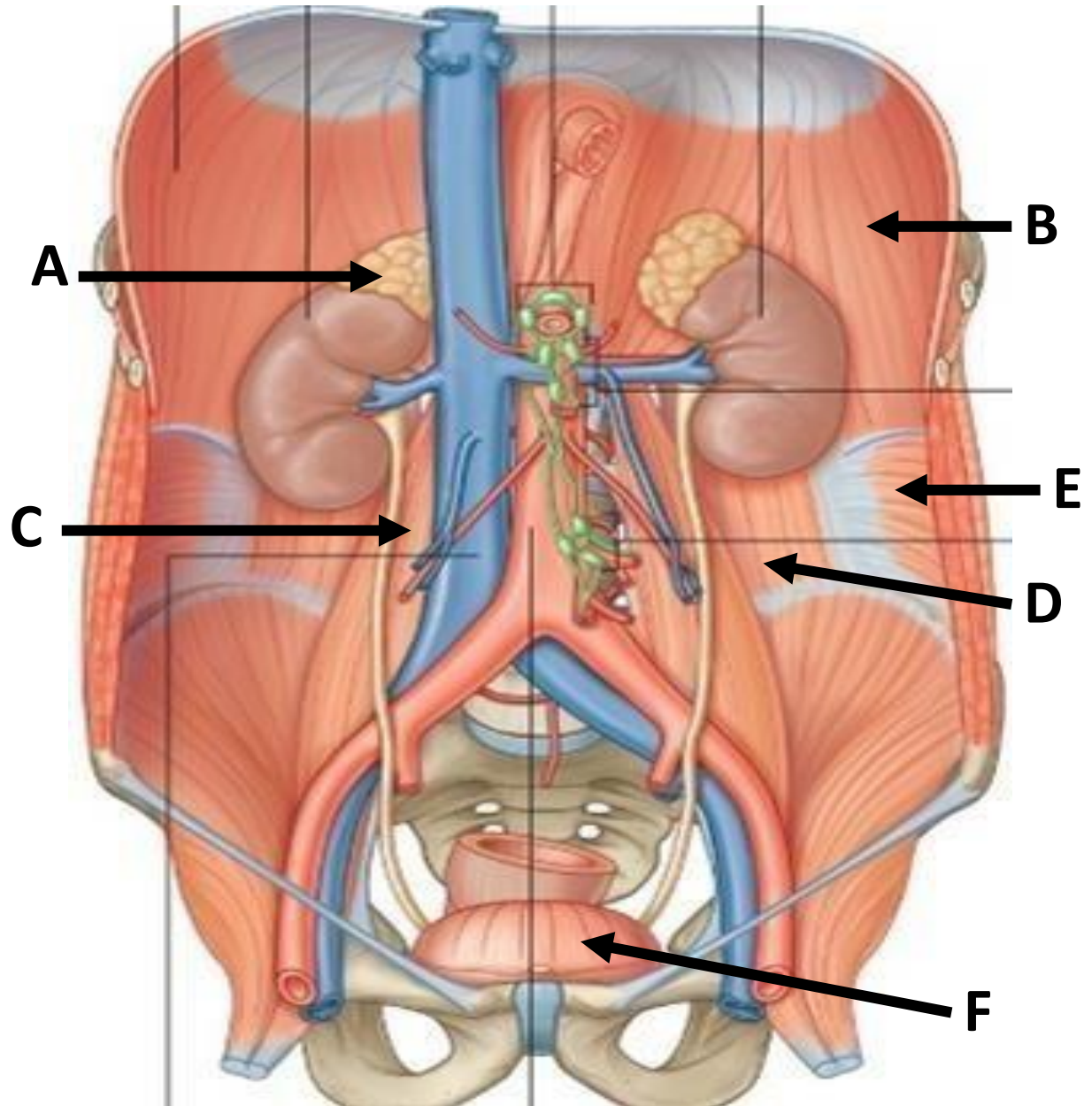
B- **Diaphragm**

C- **Psoas major**

D- **Quadratus lumborum**

E- **Transverse abdominis**

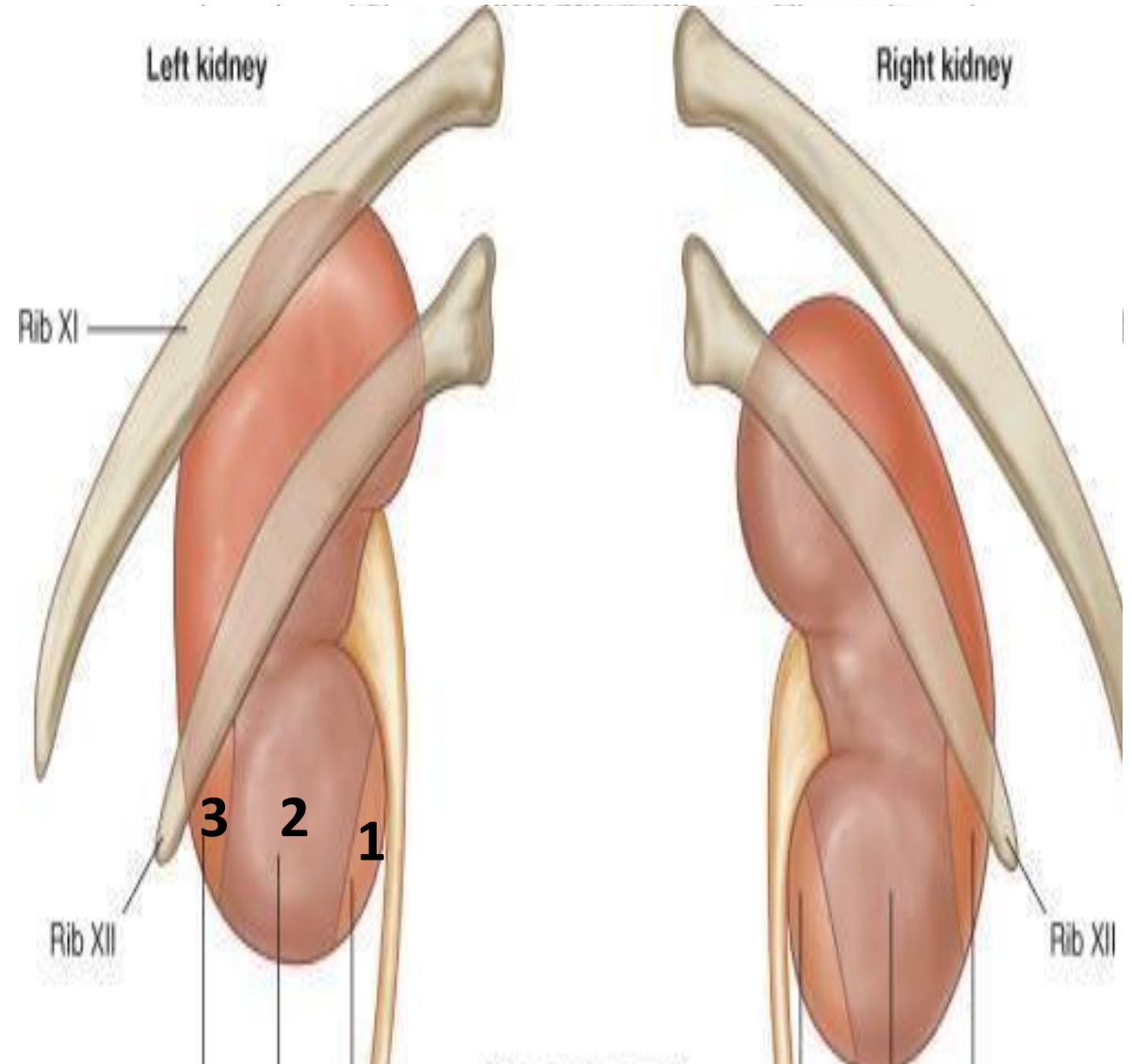
F- Urinary bladder



Q4

Identify the structures related to the marked areas:

- 1- Psoas Major
- 2- Quadratus lumborum
- 3- Transversus abdominis

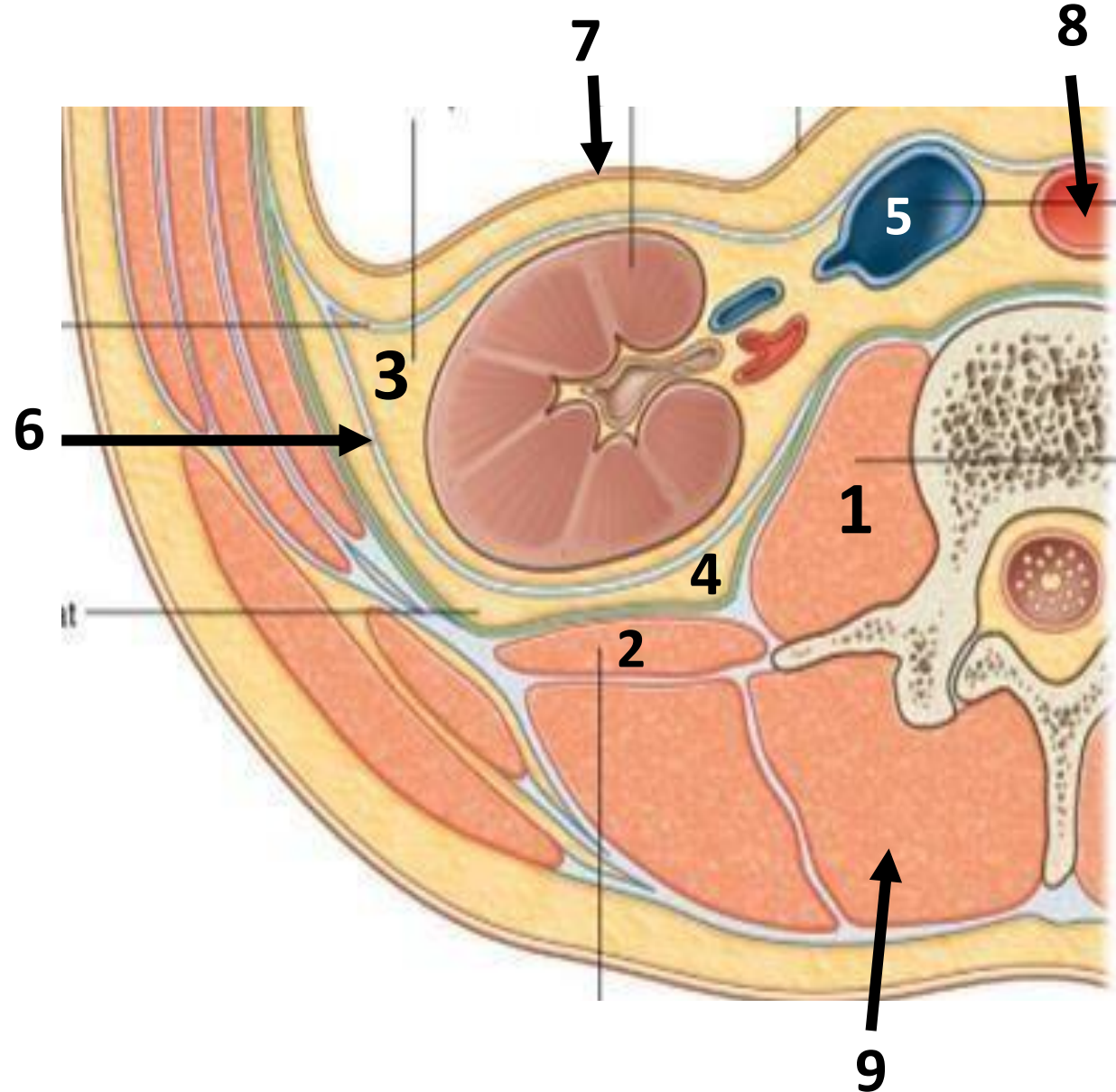


Q5

Identify the structures:

- 1- **Psoas major** muscle
- 2- **Quadratus lumborum** muscle
- 3- Perirenal fat
- 4- Pararenal fat
- 5- **Inferior vena cava**
- 6- Renal fascia
- 7- Peritoneum
- 8- **Abdominal aorta**
- 9- **Erector Spinea**

Perirenal fat → Inside



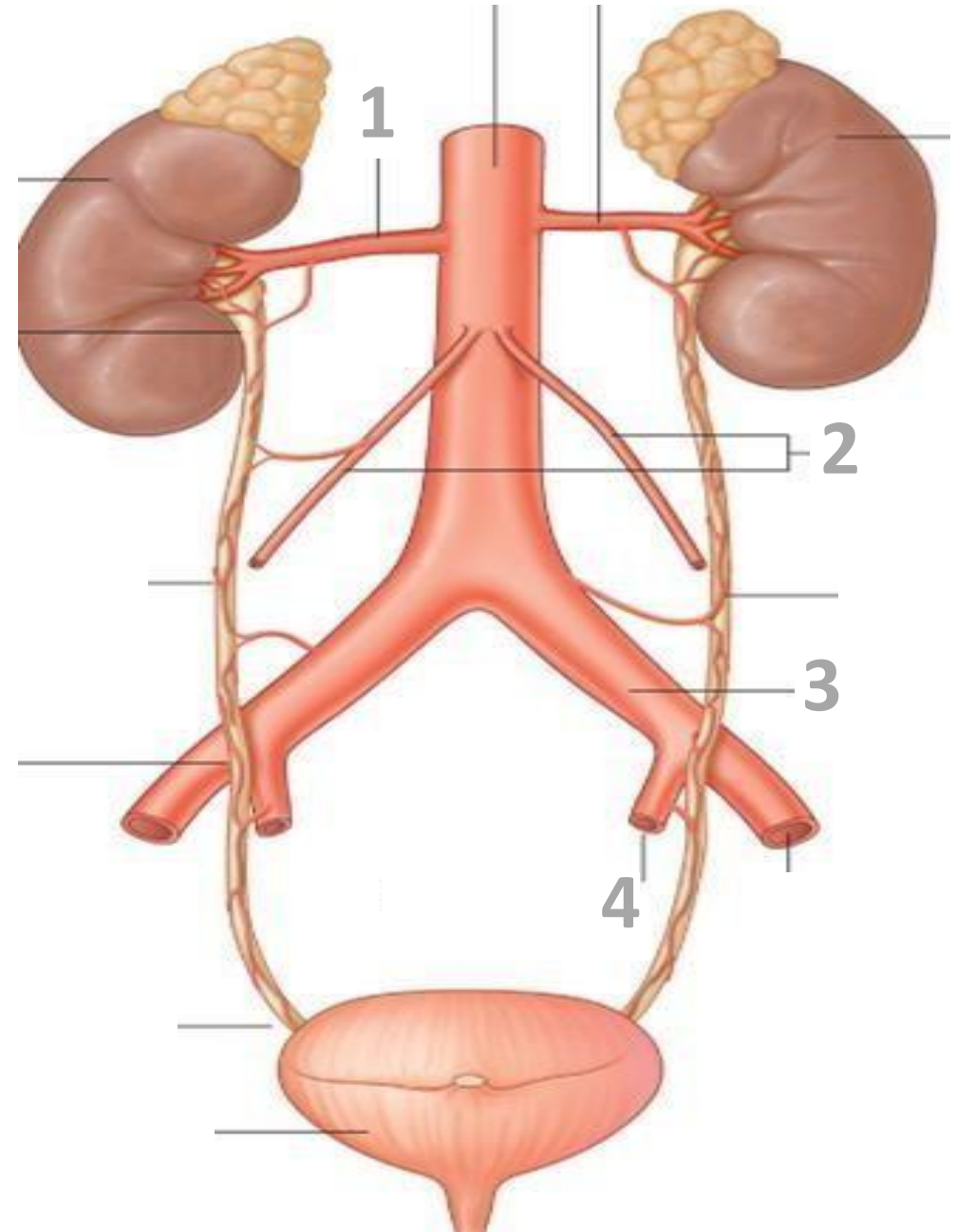
Q 6

The **ureter** is supplied by:

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

The **urinary bladder** is supplied by:

Internal iliac artery



Q7

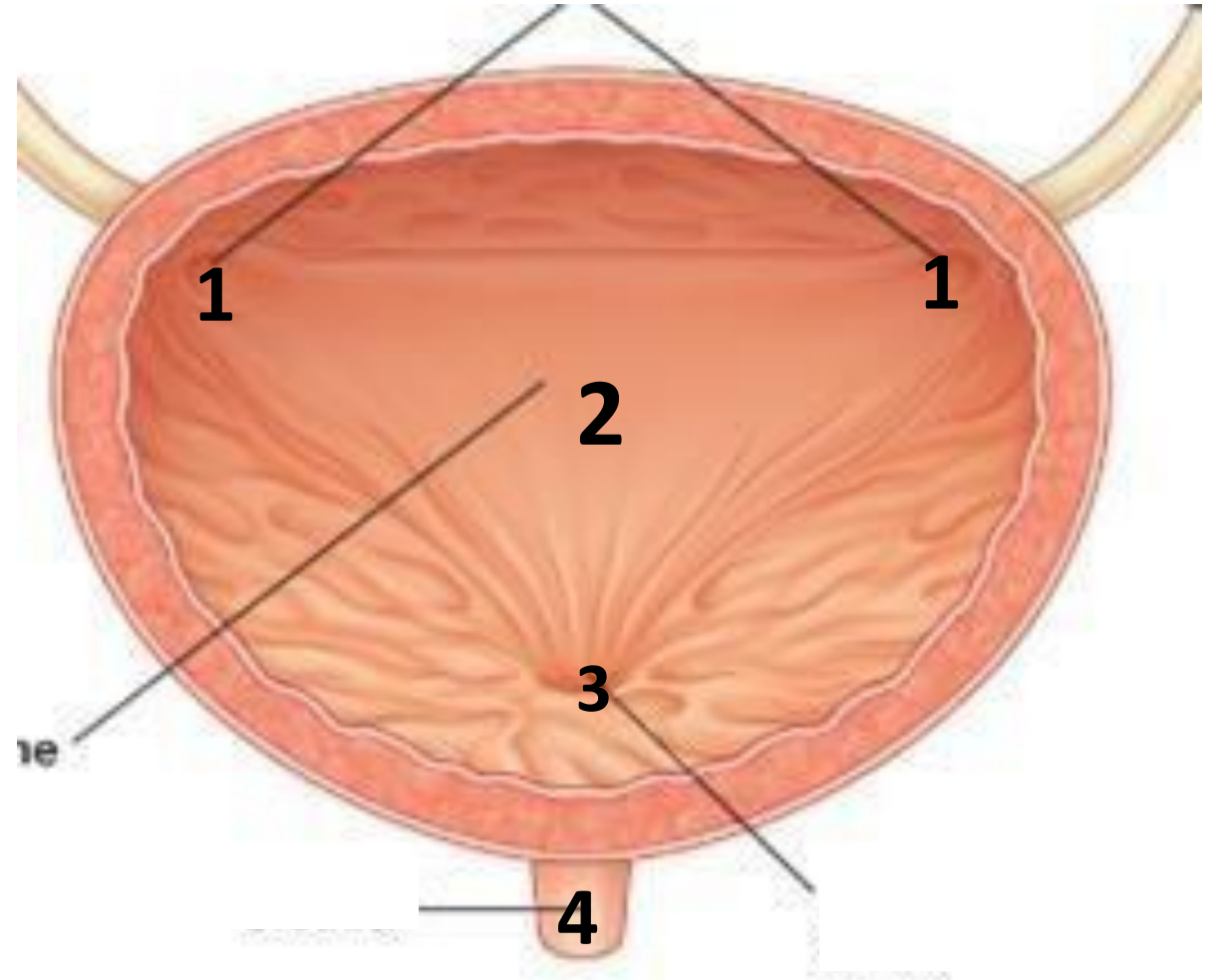
Identify the labeled areas:

1- Ureteric orifice

2- Trigone

3- Internal urethral orifice

4- Urethra



Note: Trigone is smooth and formed by 2 ureteric orifice and 1 urethral orifice

Identify:

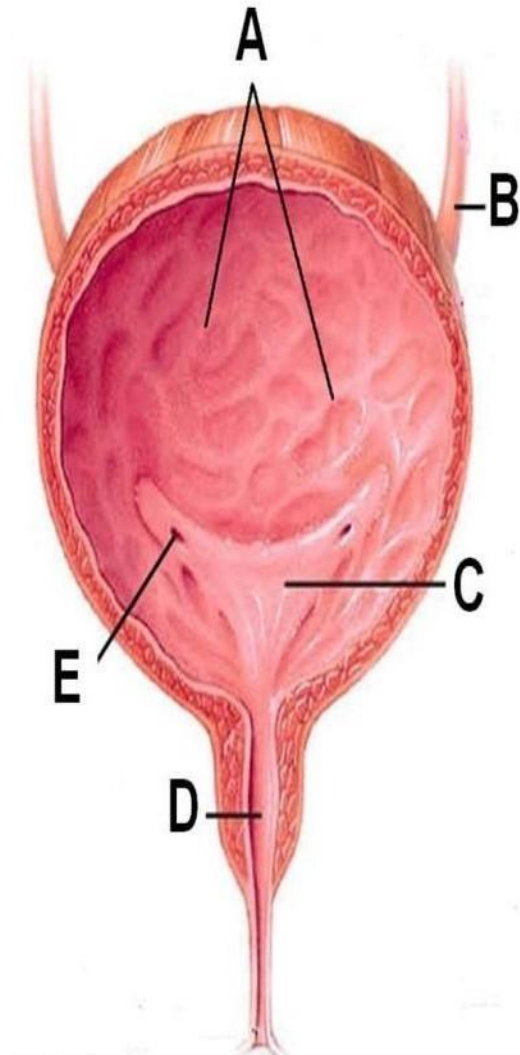
A- Mucosal folds

B- Ureter

C- Trigone

D- Urethra

E- Ureteric orifice



Female

Identify:

A- Trigone

B- Prostate

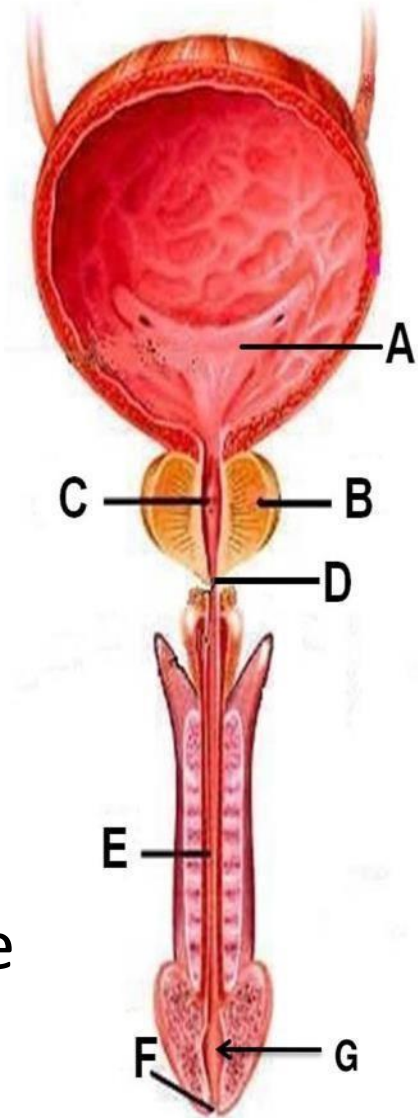
C- Prostatic urethra

D- Membranous urethra

E- Penile urethra

F- External urethral orifice

G- Fossa navicularis



Male

Q 8

Identify the labeled areas:

1- Renal Column

2- Renal Pyramid

3- Renal Papilla

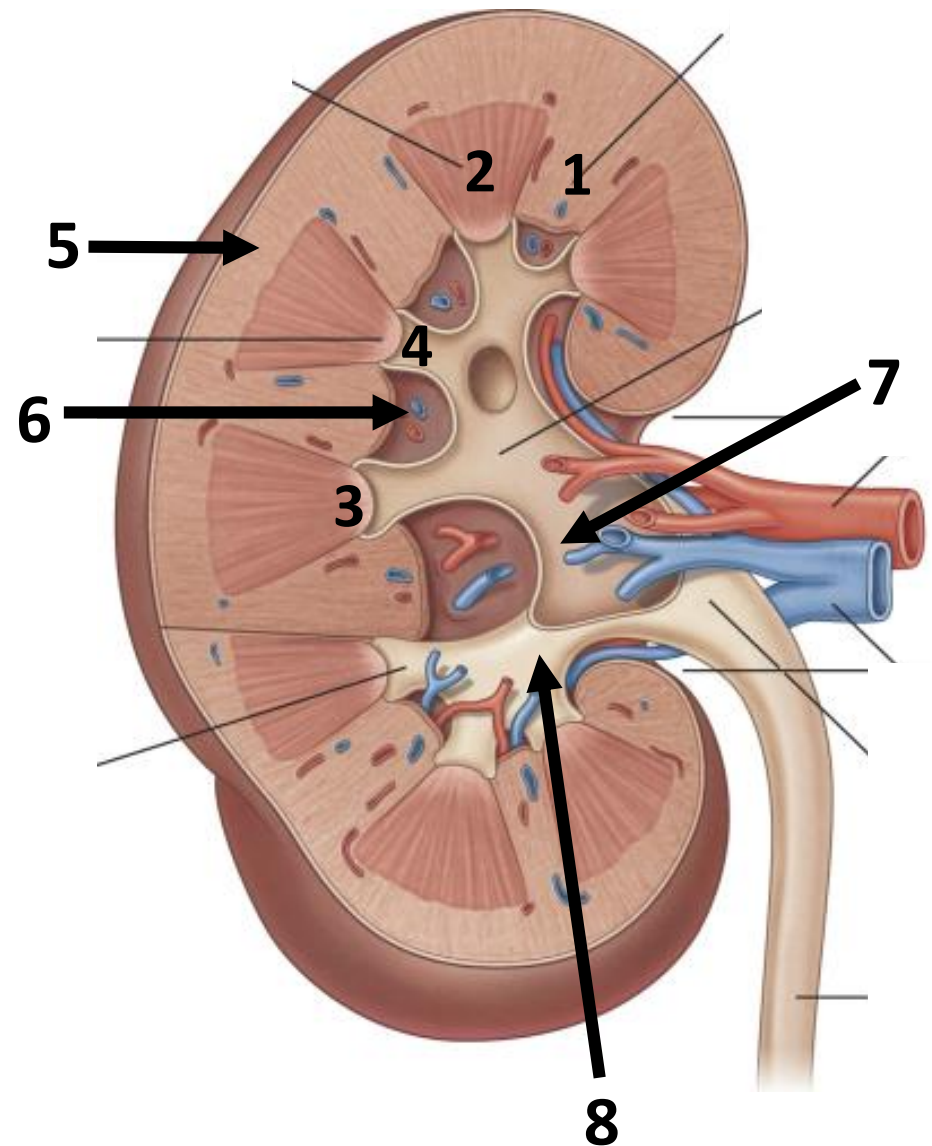
4- Minor Calyx

5- Cortex

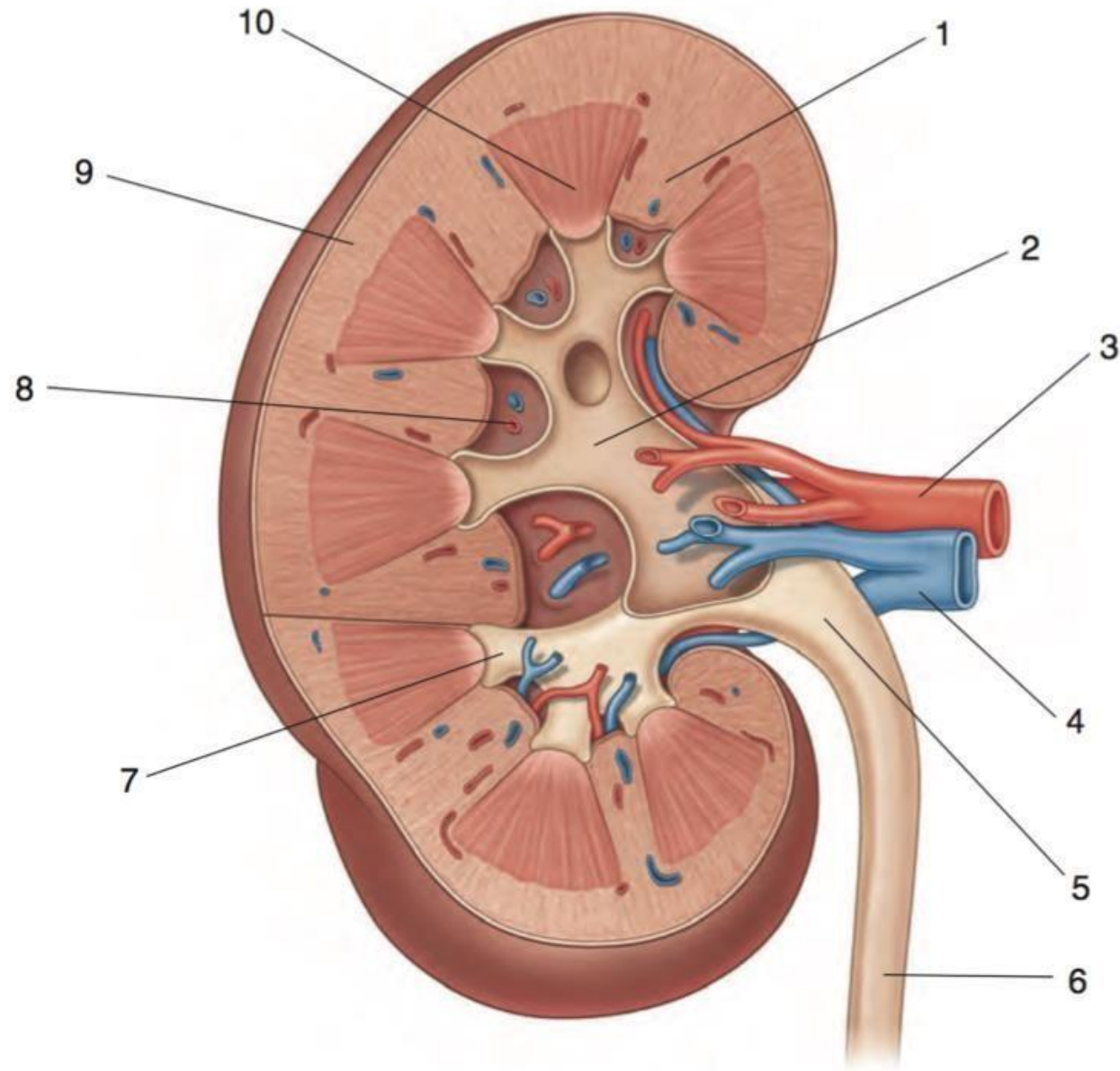
6- Renal Sinus

7- Renal Pelvis

8- Major Calyx



Identify the indicated internal structures of the kidney.



- 1. Renal column**
- 2. Major calyx**
- 3. Renal artery**
- 4. Renal vein**
- 5. Renal pelvis**
- 6. Ureter**
- 7. Minor calyx**
- 8. Renal sinus**
- 9. Renal cortex**
- 10. Pyramid in renal medulla**

Q9

Name the structures anteriorly related to the marked areas on the kidney:

A- **Stomach**

B- **Pancreas**

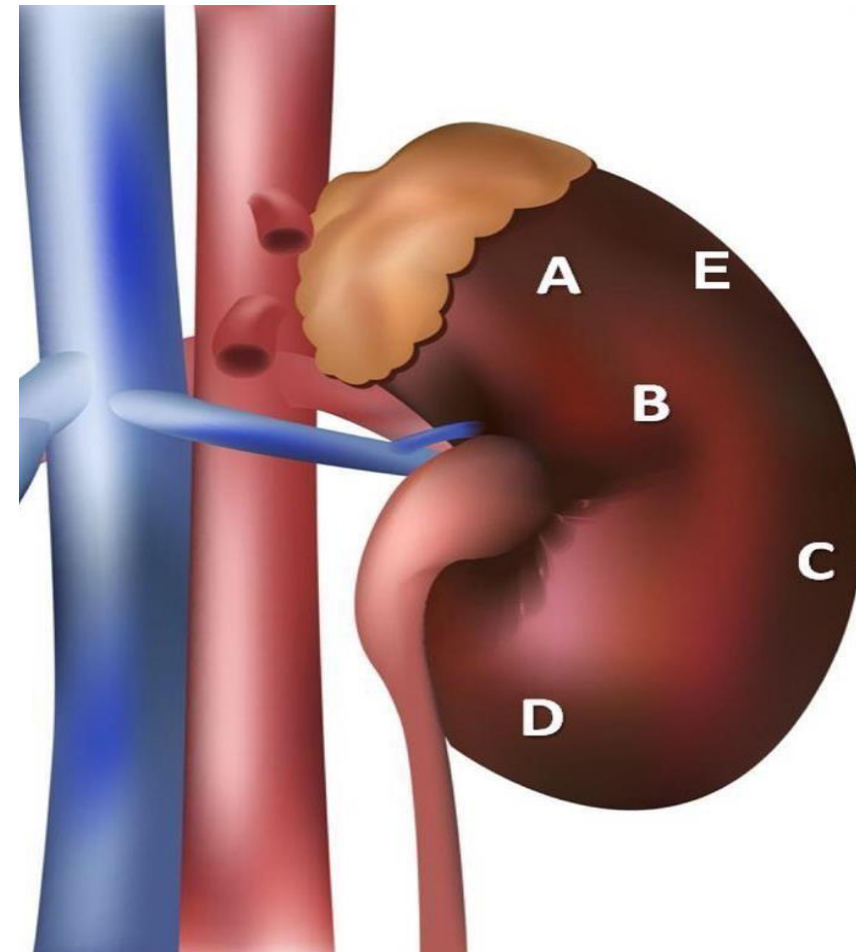
C- **Descending colon**

D- **Small intestine (loop of jejunum)**

E- **Spleen**

With Peritoneum

Without Peritoneum



This is the left kidney because it's closer to the aorta + longer renal vein

Q 10

Name the structures anteriorly related to the marked areas on the kidney:

A- **Liver**

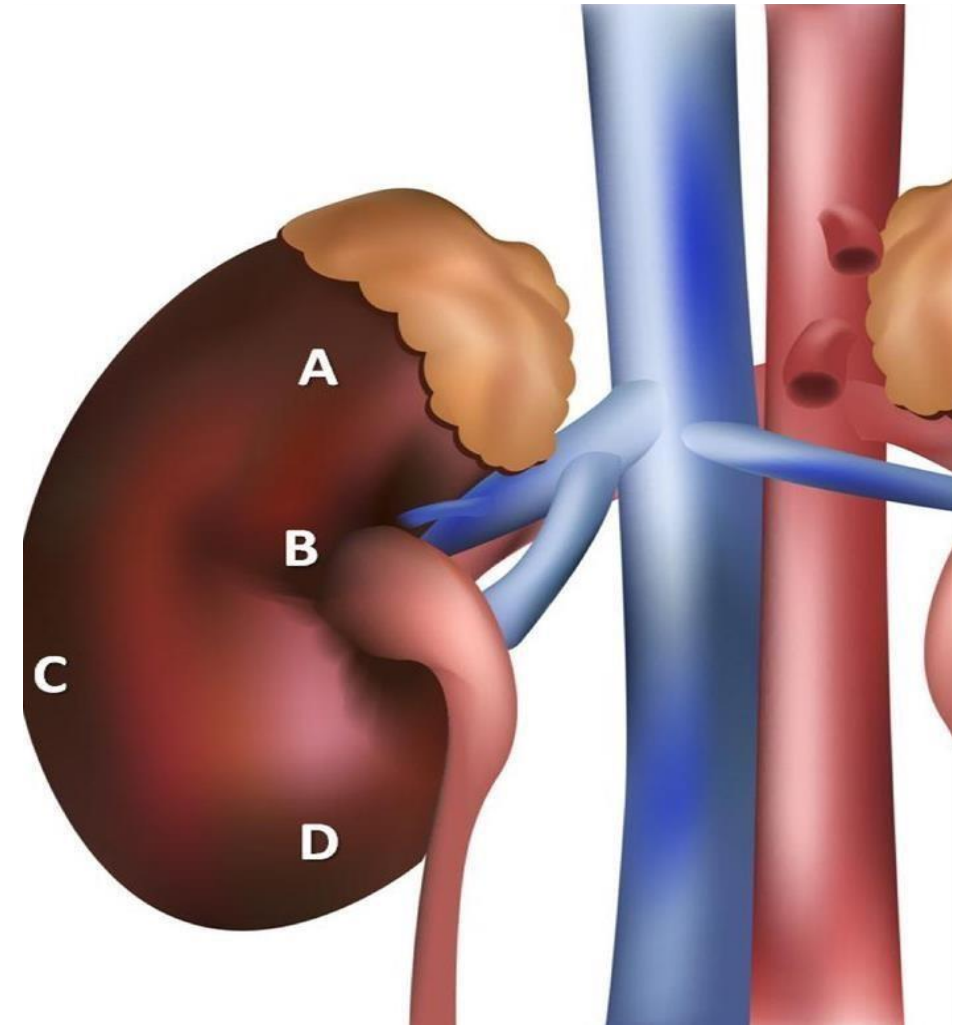
B- Duodenum (2nd Part)

C- Right colic flexure

D- **Small intestine**

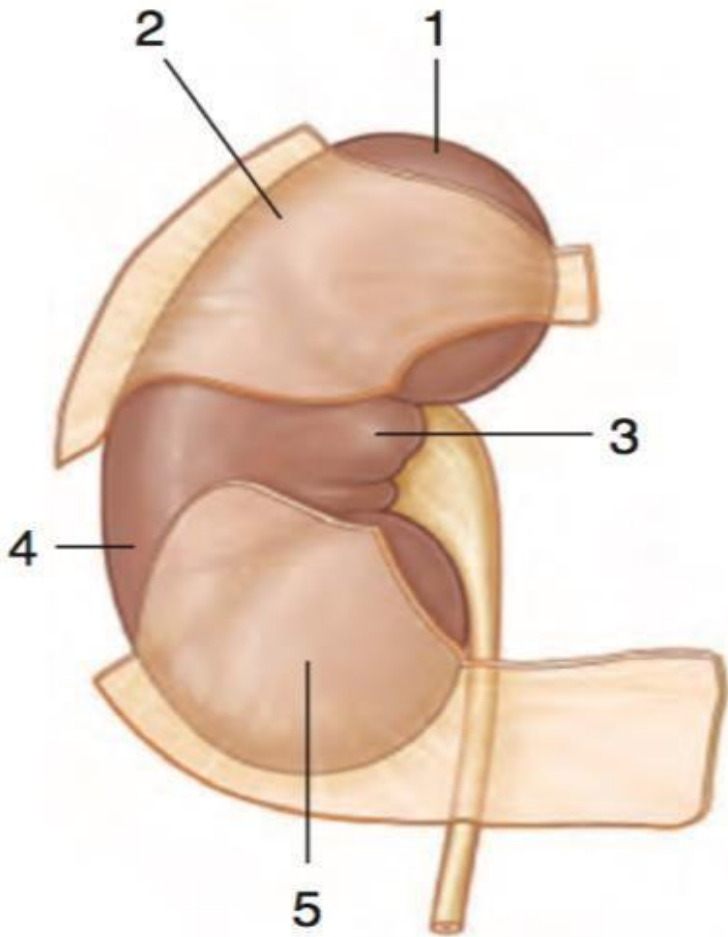
With Peritoneum

Without Peritoneum



This is the right kidney because it's closer to the inferior vena cava

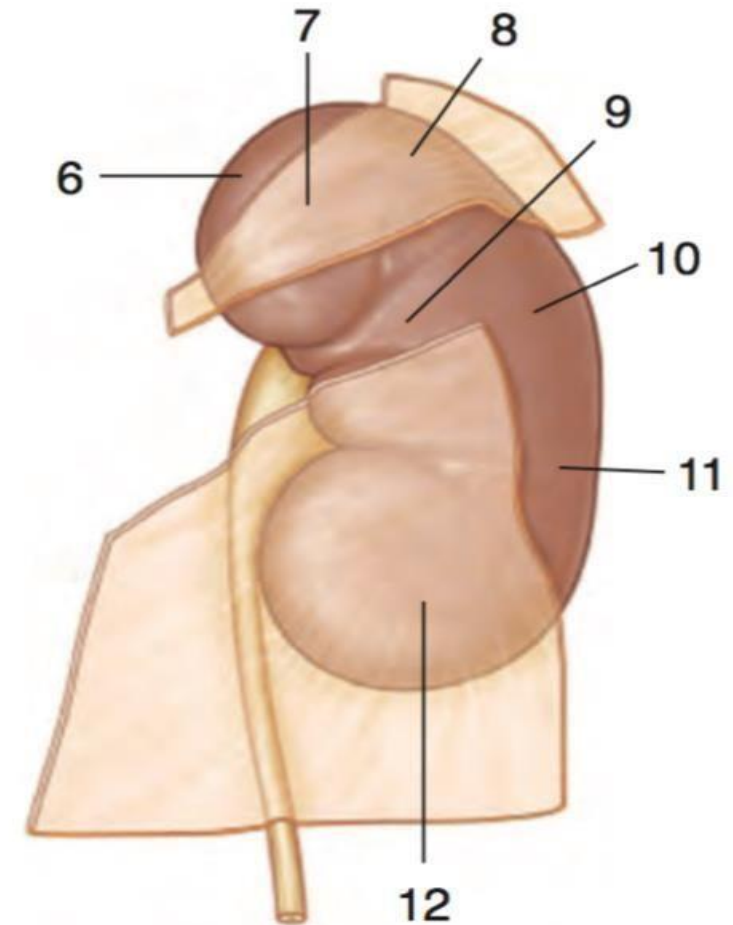
Anterior Relations of the Kidney:



Right Kidney

1. Right suprarenal gland
2. **Liver**
3. Descending part of duodenum
4. Right colic flexure
5. **Small intestines**
6. Left suprarenal gland
7. **Stomach**
8. **Spleen**
9. Pancreas
10. Left colic flexure
11. Descending colon
12. **Jejunum**

With Peritoneum
Without Peritoneum



Left Kidney

Q 11

Name the structures related to the marked areas:

1- Apical segment

2- Caudal segment

3- Anterior superior segment

4- Anterior inferior segment

5- Posterior segment

