

# ANATOMY LAB

UGS





# URINARY & REPRODUCTIVE SYSTEMS

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- URINARY SYSTEM ORGANS

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- KIDNEYS & URETERS MODEL

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- RENAL VASCULATURE MODEL

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- FEMALE REPRODUCTIVE SYSTEM

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- MALE REPRODUCTIVE SYSTEM

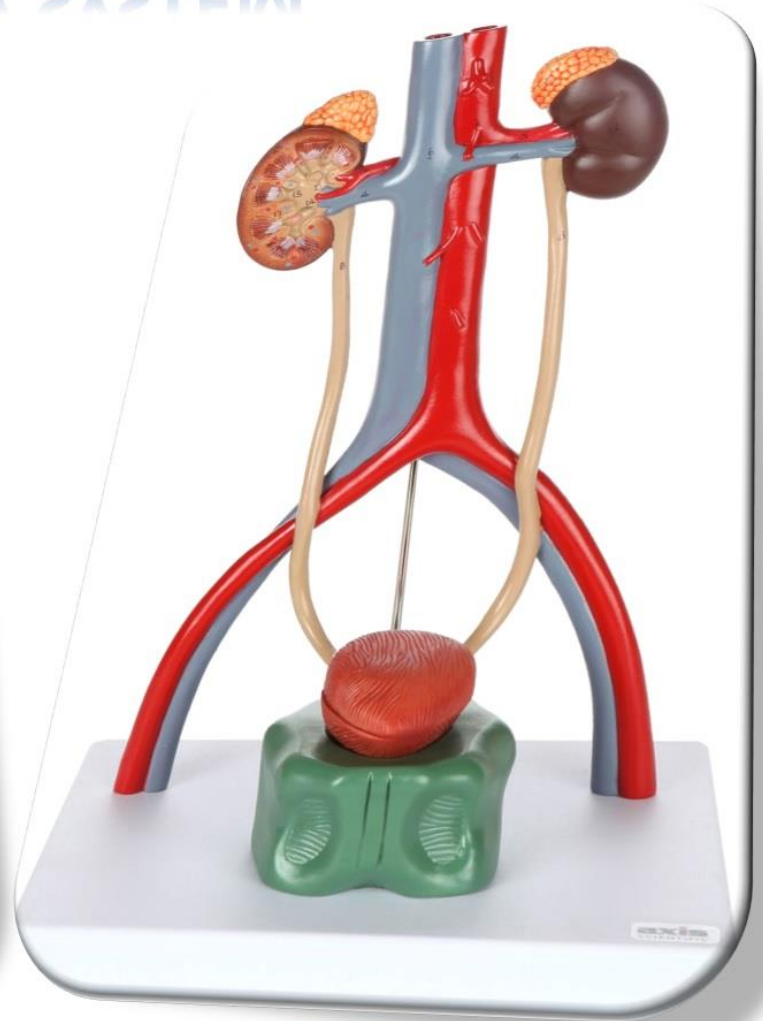
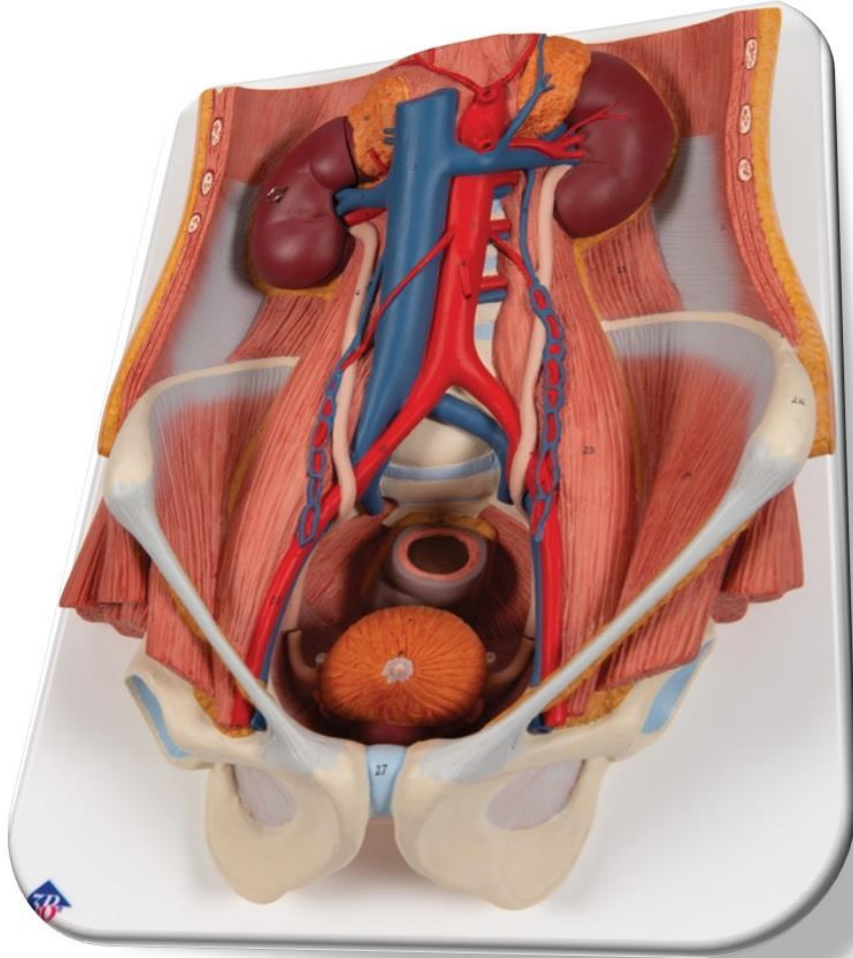
6

- PELVIS

7

- PERINEUM

# URINARY SYSTEM



# Urinary System model

## **Kidneys :**

- Right kidney
- Left kidney

## **Ureters :**

- Right ureter
- Left ureter

## **Urinary bladder**

## **Urethra :**

- Male urethra
- Female urethra

## **Adrenal (suprarenal) glands :**

- Right suprarenal gland
- Left suprarenal gland

## **Blood vessels :**

- Inferior vena cava
- Aorta

# Urinary System

## Kidneys & Ureters

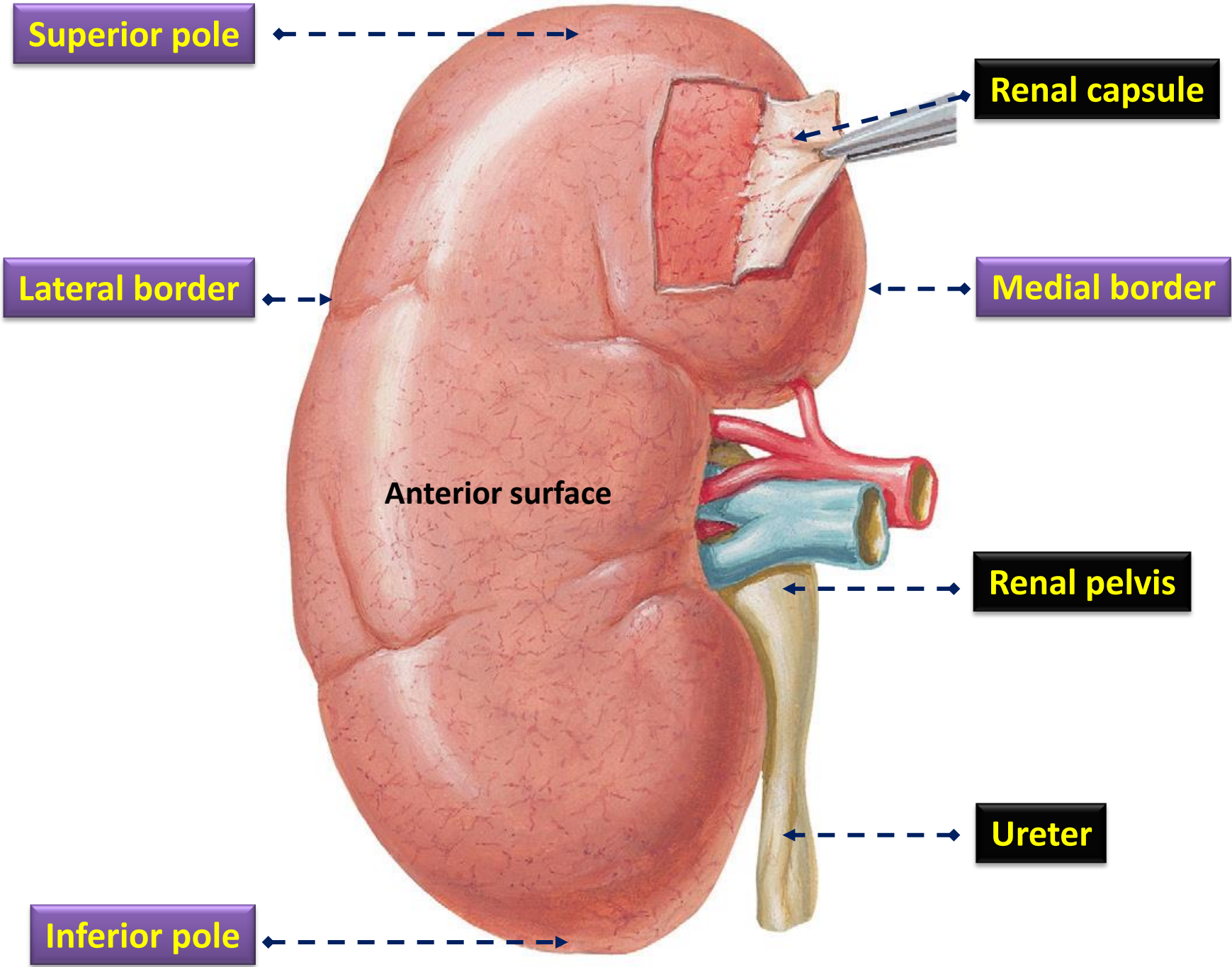
<b>Right kidney &amp; left kidney</b>
<b>Right &amp; left suprarenal glands</b>
<b>Anterior &amp; posterior surfaces of the kidneys</b>
<b>Medial border &amp; lateral border</b>
<b>Superior pole &amp; inferior pole</b>
<b>Renal hilum</b>
<b>Renal capsule</b>
<b>Renal cortex</b>
<b>Medullary pyramids</b>
<b>Renal columns</b>
<b>Major calyx</b>
<b>Minor calyx</b>
<b>Renal papilla</b>
<b>Renal pelvis</b>
<b>Ureter</b>

# Urinary System

## Renal vasculature

<b>1</b>	<b>Renal Artery :</b>
<b>2</b>	➤ Segmental artery
<b>3</b>	➤ Interlobar artery
<b>4</b>	➤ Arcuate artery
<b>5</b>	➤ Interlobular artery
<b>6</b>	<b>Renal vein</b>





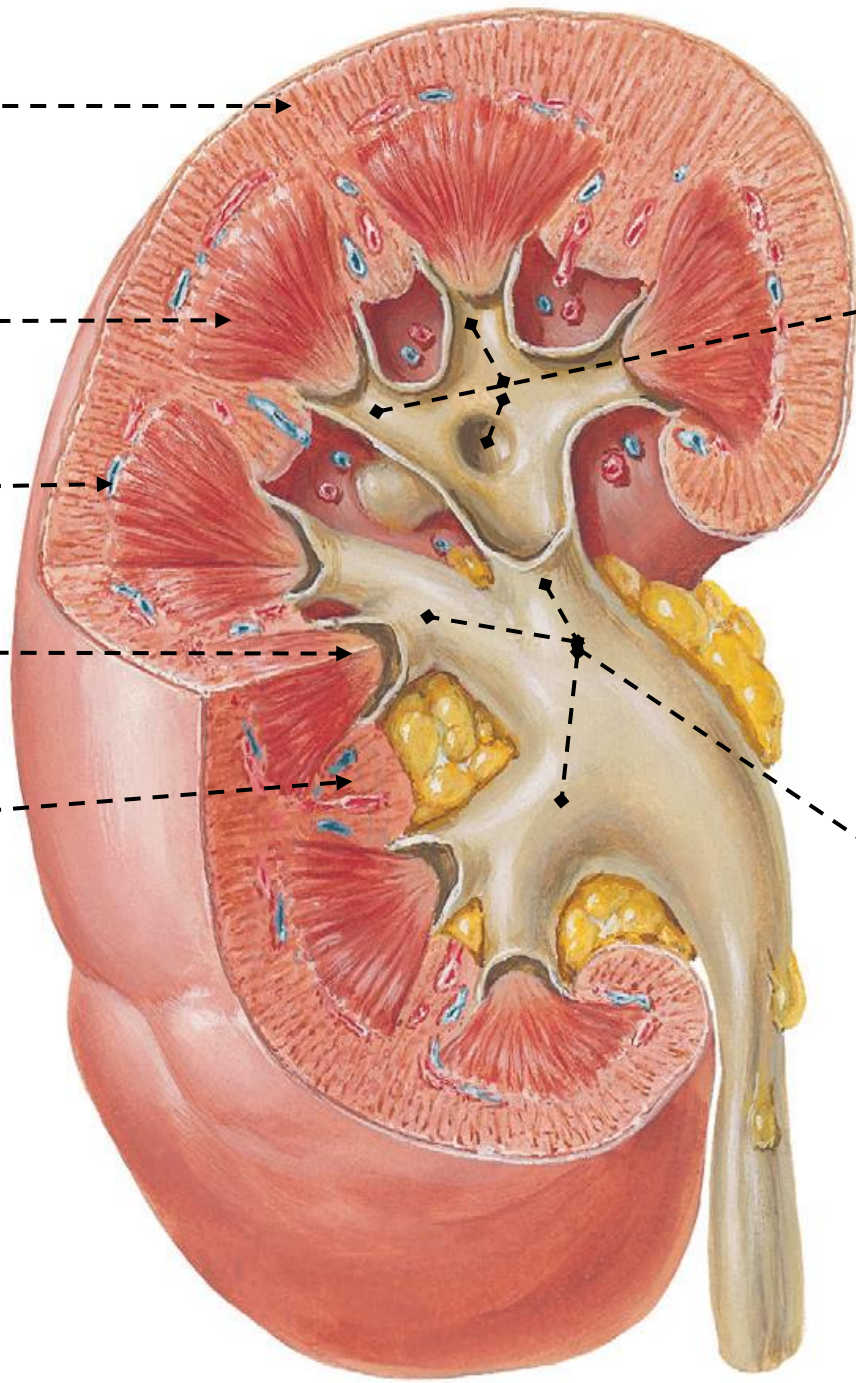
**Cortex**

**Medulla (pyramid)**

**Base of pyramid**

**Renal papilla**

**Renal column**



**Minor calyces**

**Major calyces**



Right adrenal gland

Right kidney

Right ureter

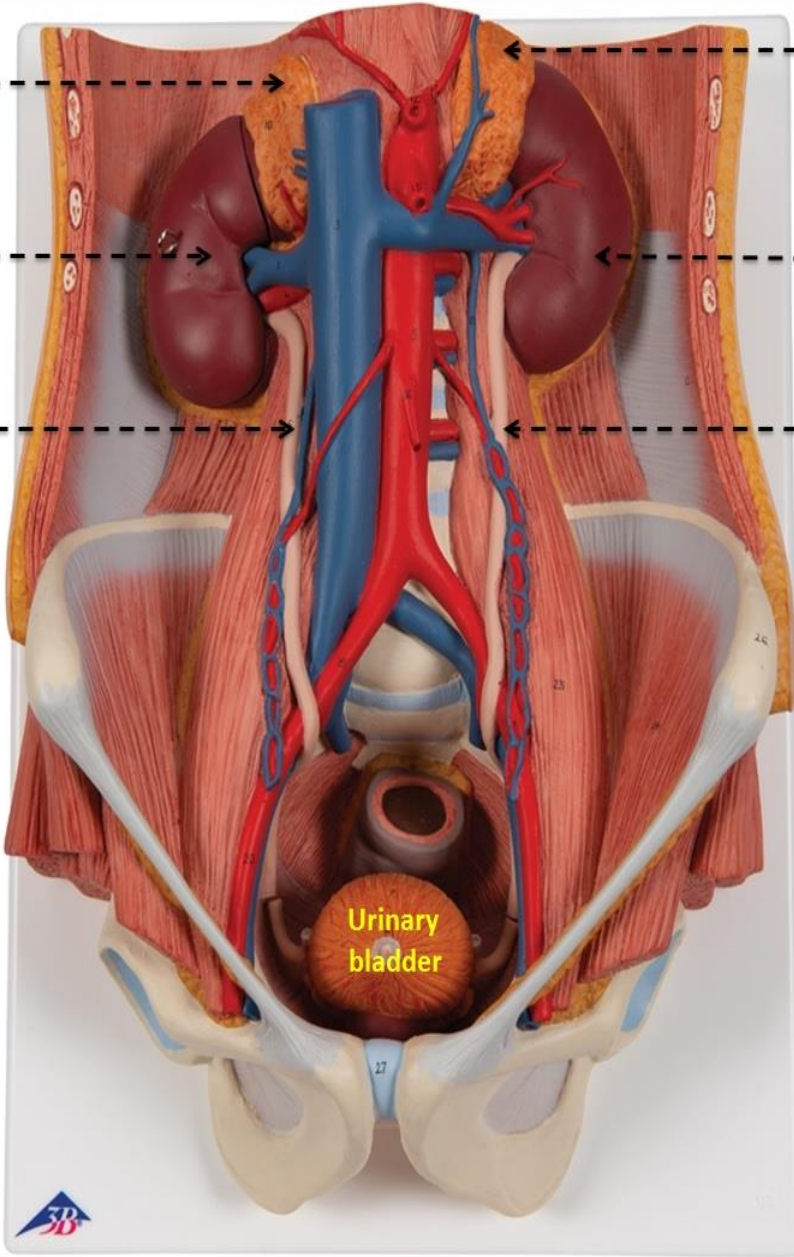
Left adrenal gland

Left kidney

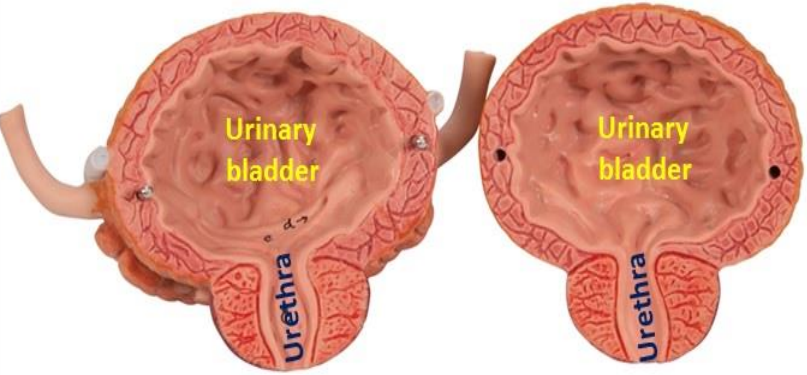
Left ureter

Urethra

Urinary bladder



Urinary bladder



Urinary bladder

Urethra

Urinary bladder

Urethra

Organs of the urinary system : anterior view

Right renal artery

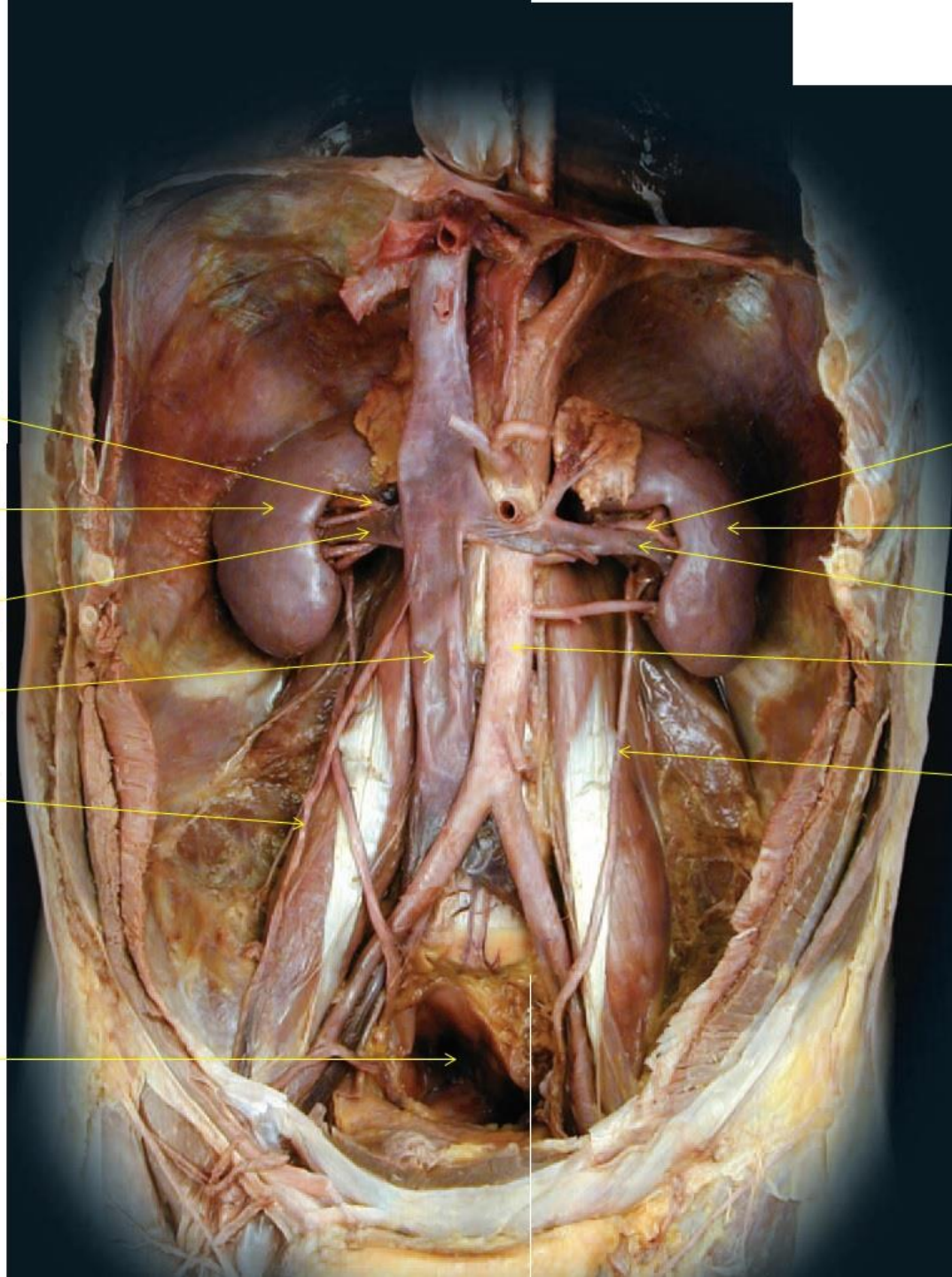
Right kidney

Right renal vein

Inferior vena cava

Right ureter

Urinary bladder



Left renal artery

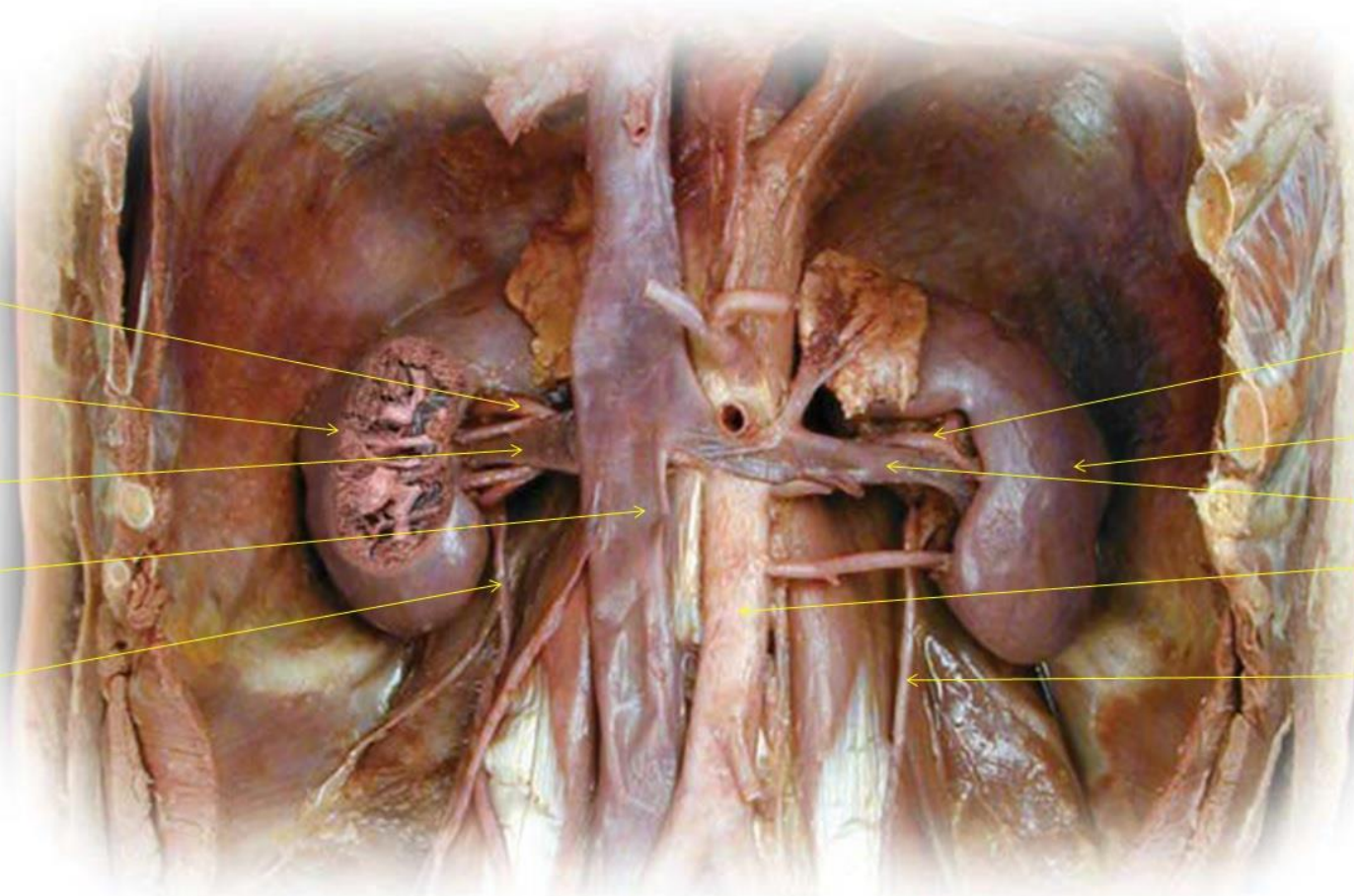
Left kidney

Left renal vein

Abdominal aorta

Left ureter





Right renal artery

Right kidney

Right renal vein

Inferior vena cava

Right ureter

Left renal artery

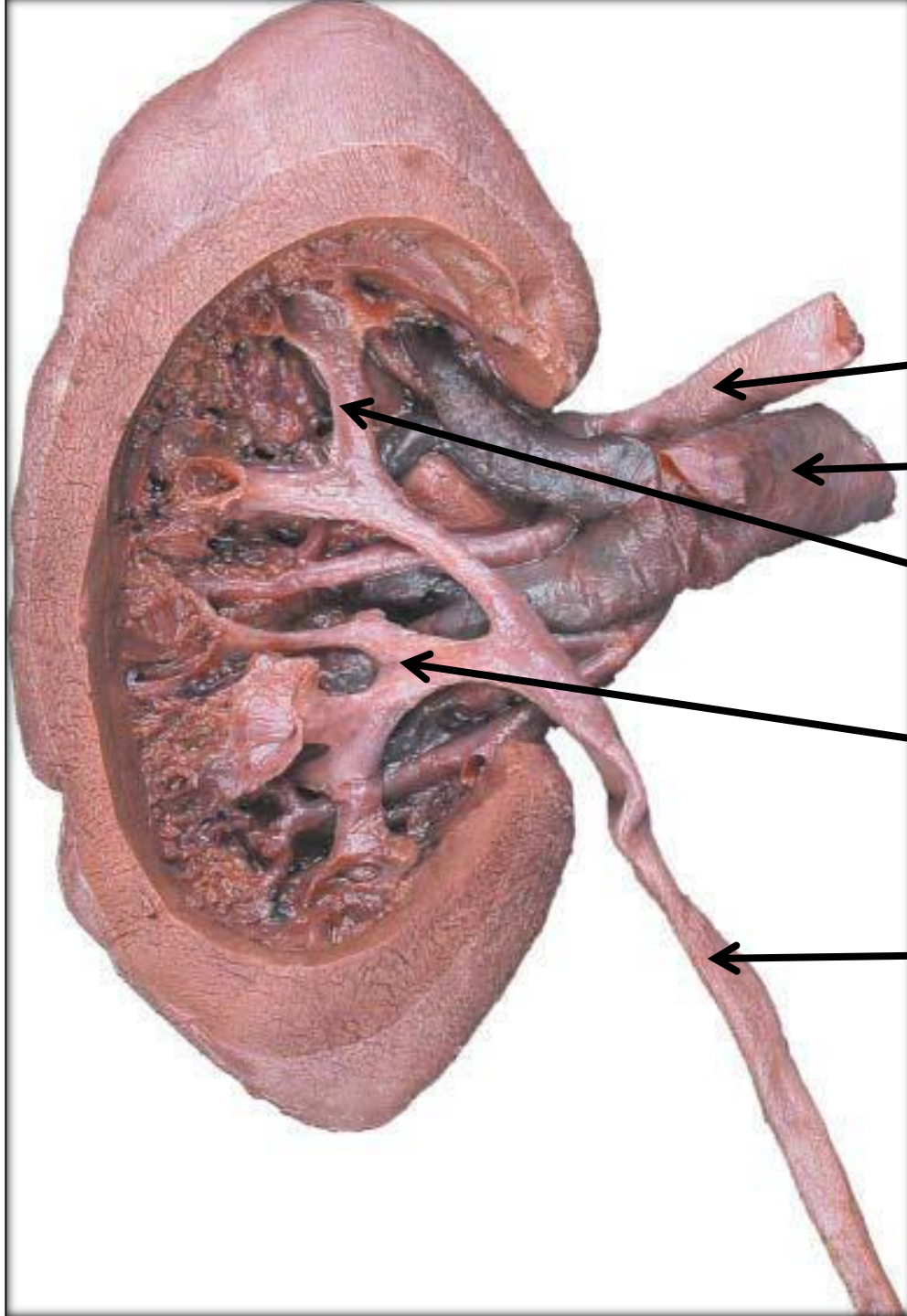
Left kidney

Left renal vein

Abdominal aorta

Left ureter





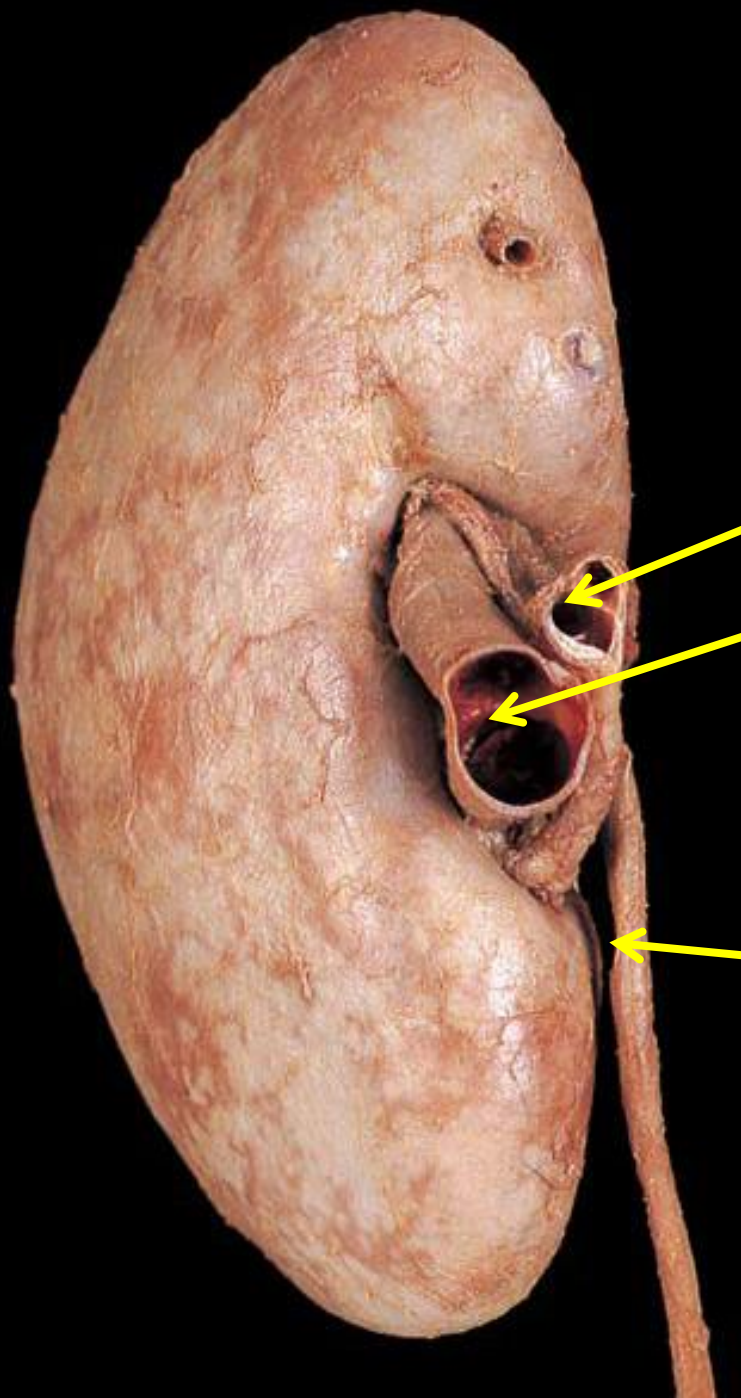
renal artery

Left renal vein

Minor calyx

Major calyx

ureter



renal artery

renal vein

ureter

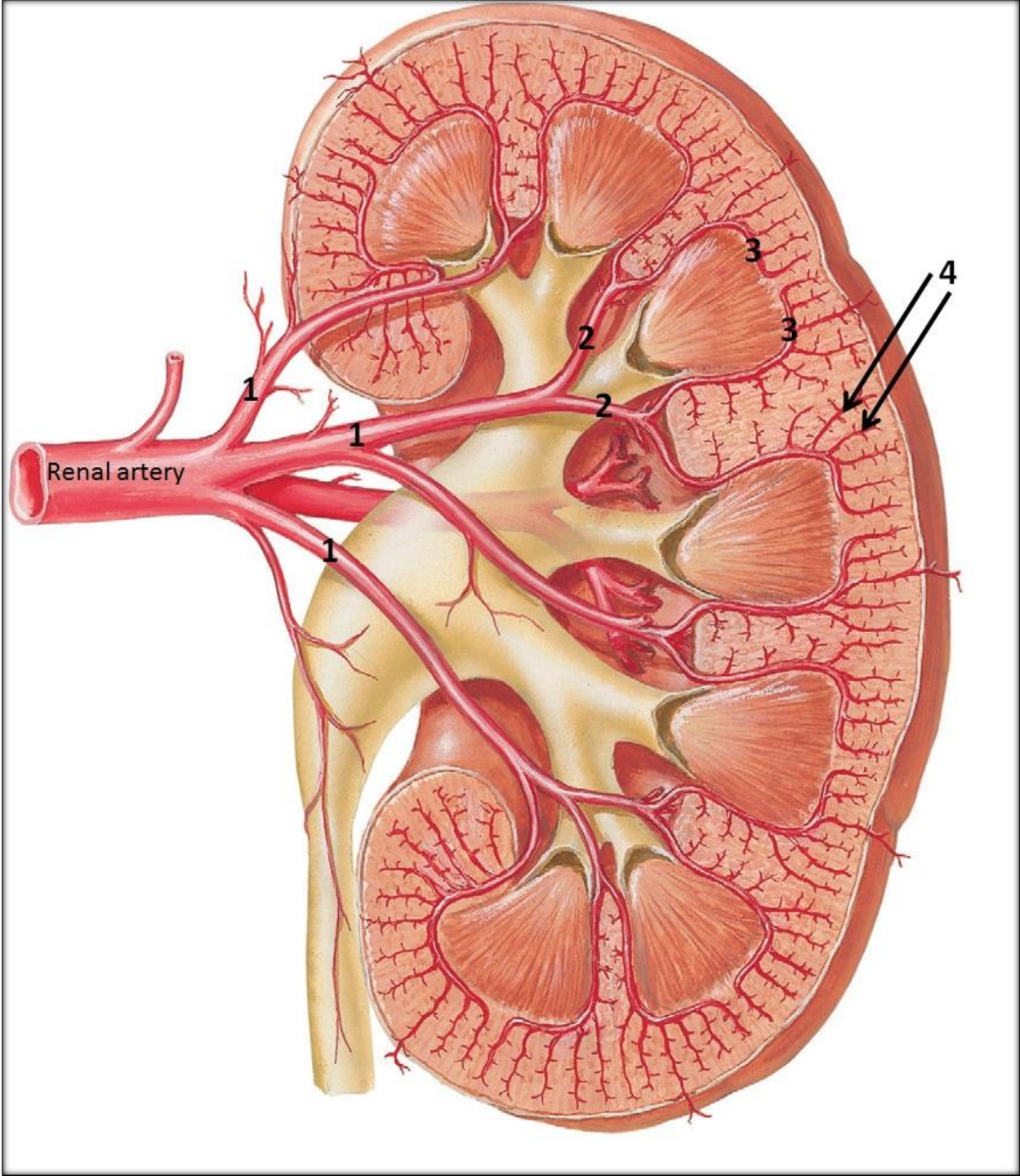
Renal artery

Segmental arteries (1)

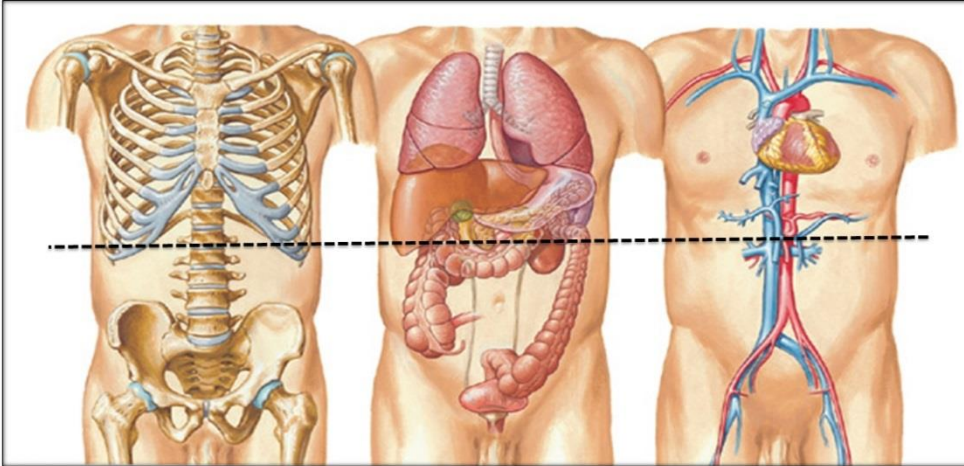
Interlobar arteries (2)

Arcuate arteries (3)

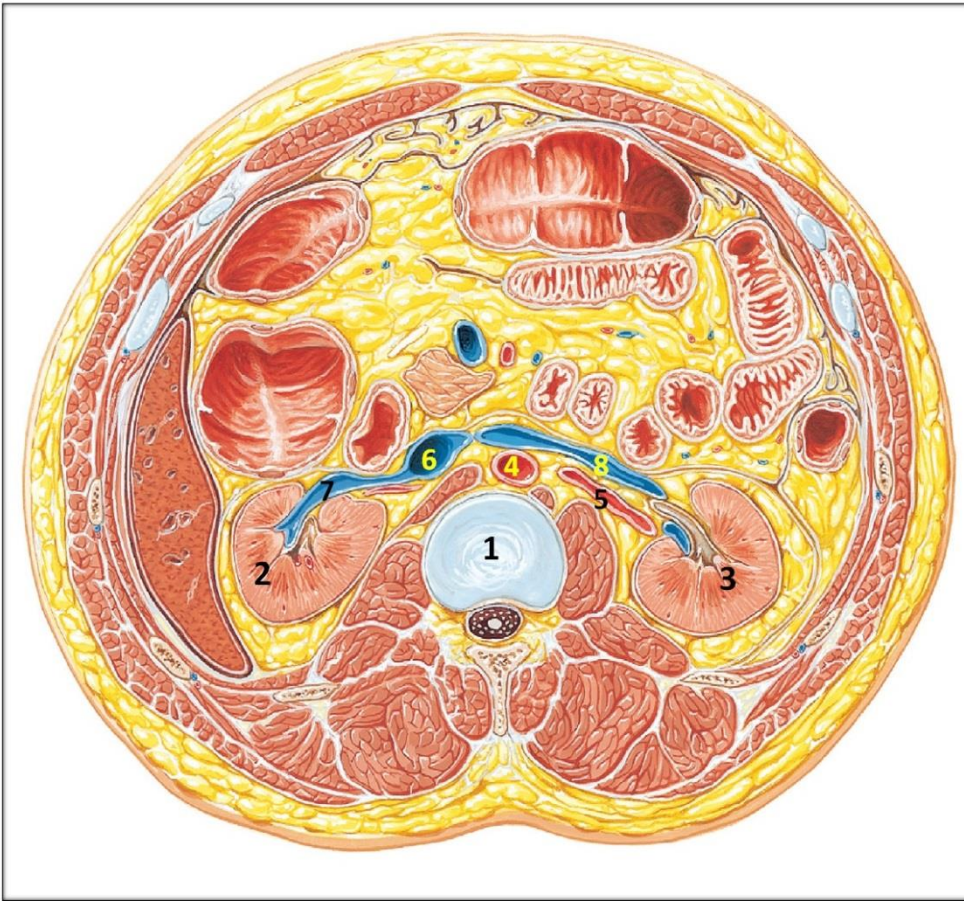
Cortical radiate  
(interlobular) arteries (4)







Cross Section at L1-2, Intervertebral Disc



L1-2 intervertebral disc 1

Right kidney 2

Left kidney 3

Abdominal aorta 4

Left renal artery 5

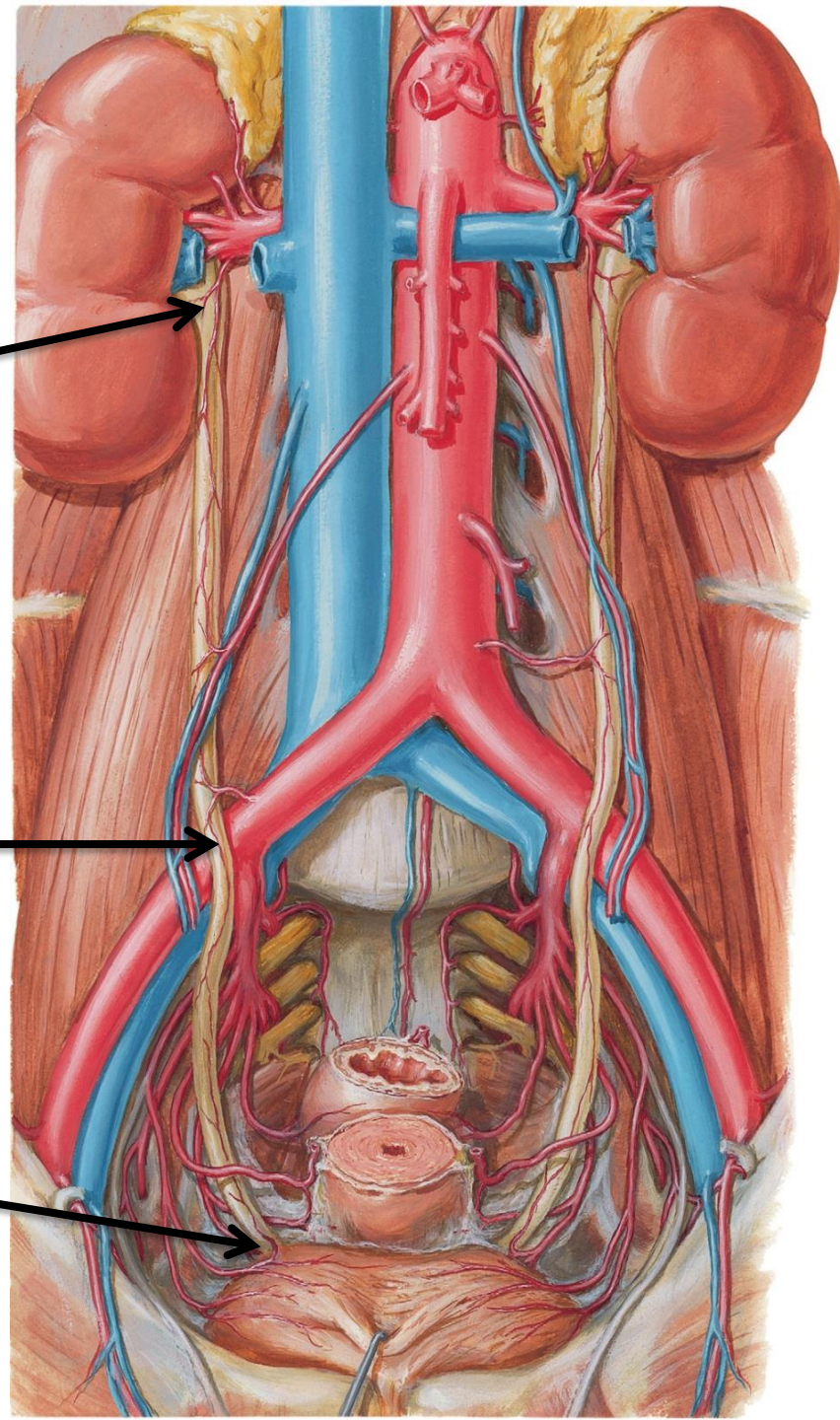
Inferior vena cava 6

Right renal vein (entering inferior vena cava) 7

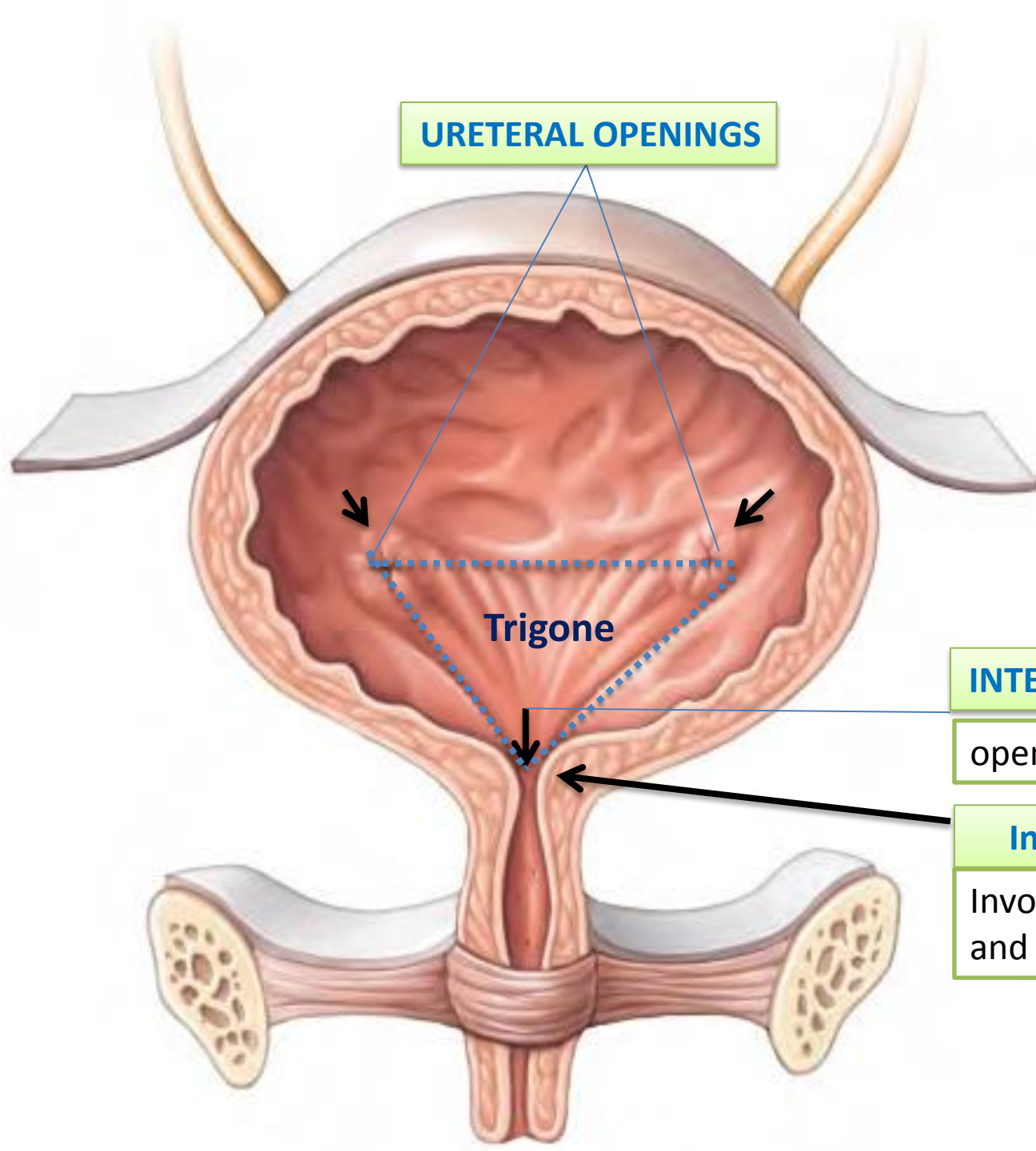
Left renal vein (entering inferior vena cava) 8

☐ At three points along their course the ureters are constricted :

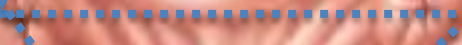
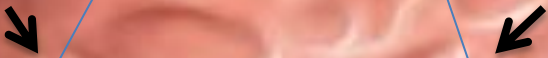
1. the first point is at the **ureteropelvic junction**
2. the second point is where the ureters cross the **common iliac** vessels at the pelvic brim
3. the third point is where the ureters **enter the wall of the bladder**







**URETERAL OPENINGS**



**Trigone**



**INTERNAL URETHRAL ORIFICE**

opening into urethra

**Internal urethral sphincter**

Involuntarily controls opening and closing of urethra



Left ureter

Urinary bladder

Prostate

Left ductus (vas) deferens

Seminal vesicle

Posterior view of male accessory organs of reproduction

