# KIDNEY

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MARYAM SABA

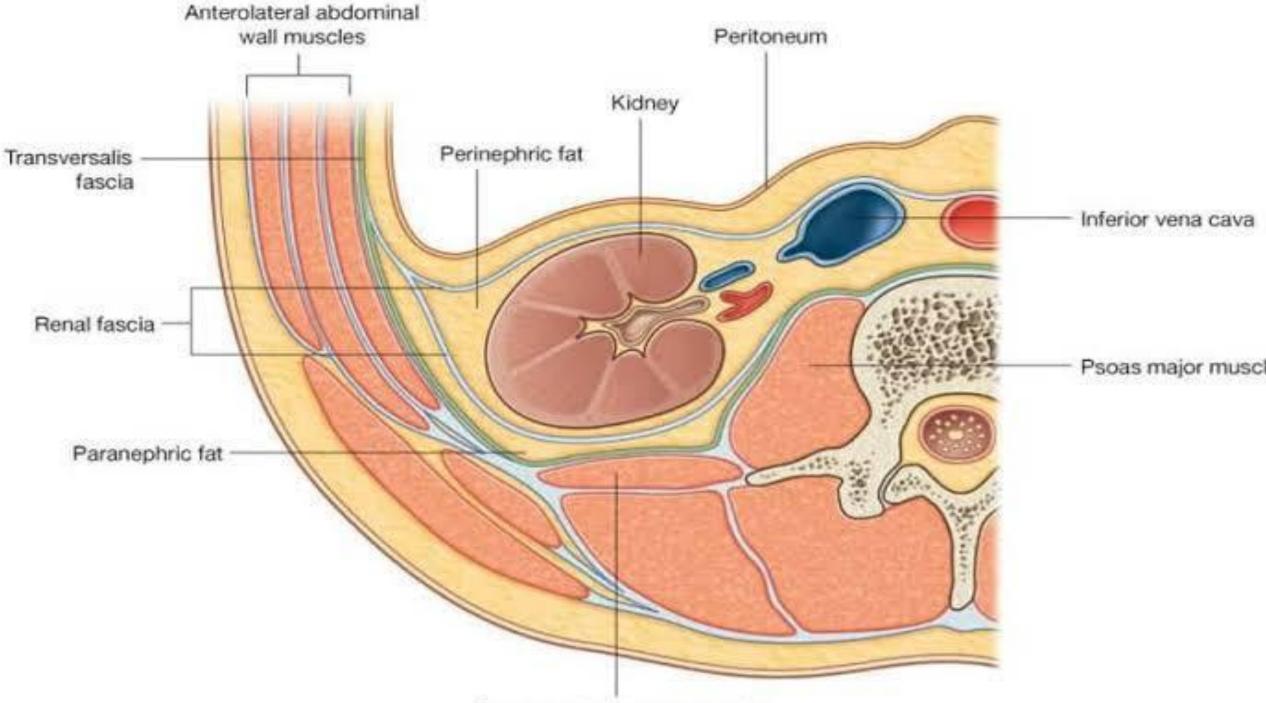
# KIDNEY

Bean shaped retroperitoneal organ
In supine position extend from T12 to L3
Right kidney lower than left because of liver
lobe

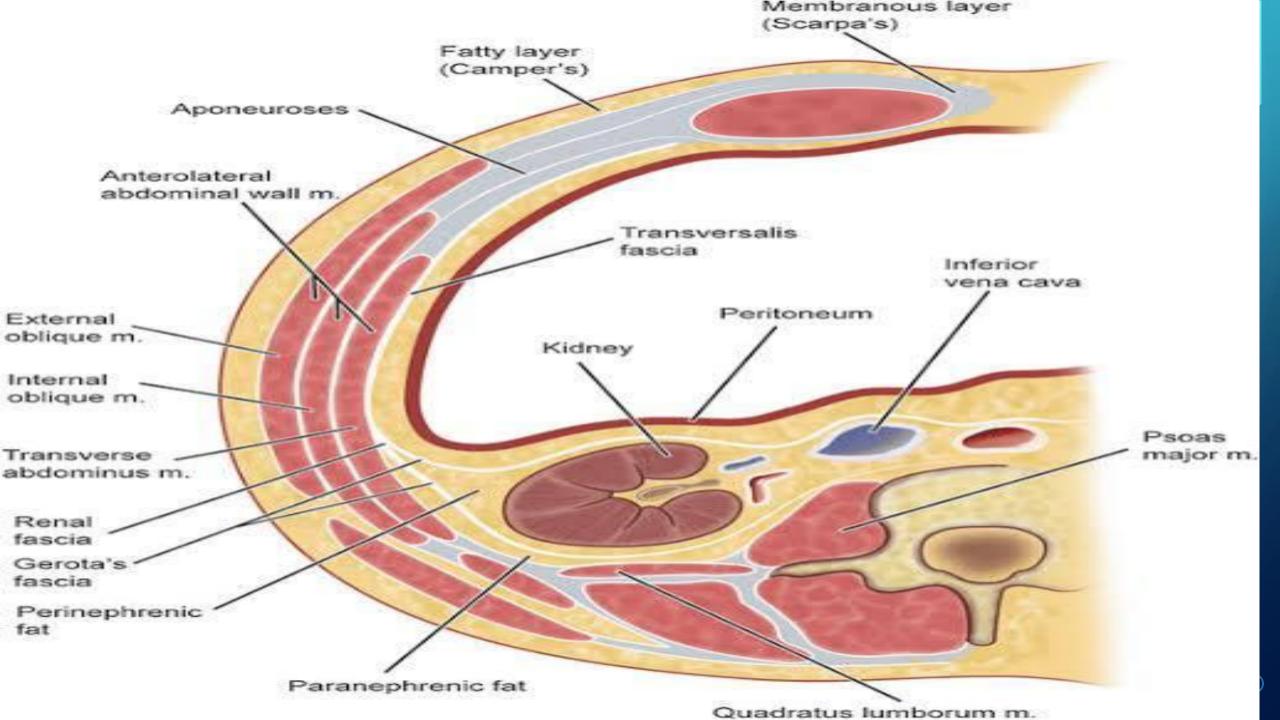
Support by muscles of posterior abdominal wall and extraperitoneal fat and fascia.

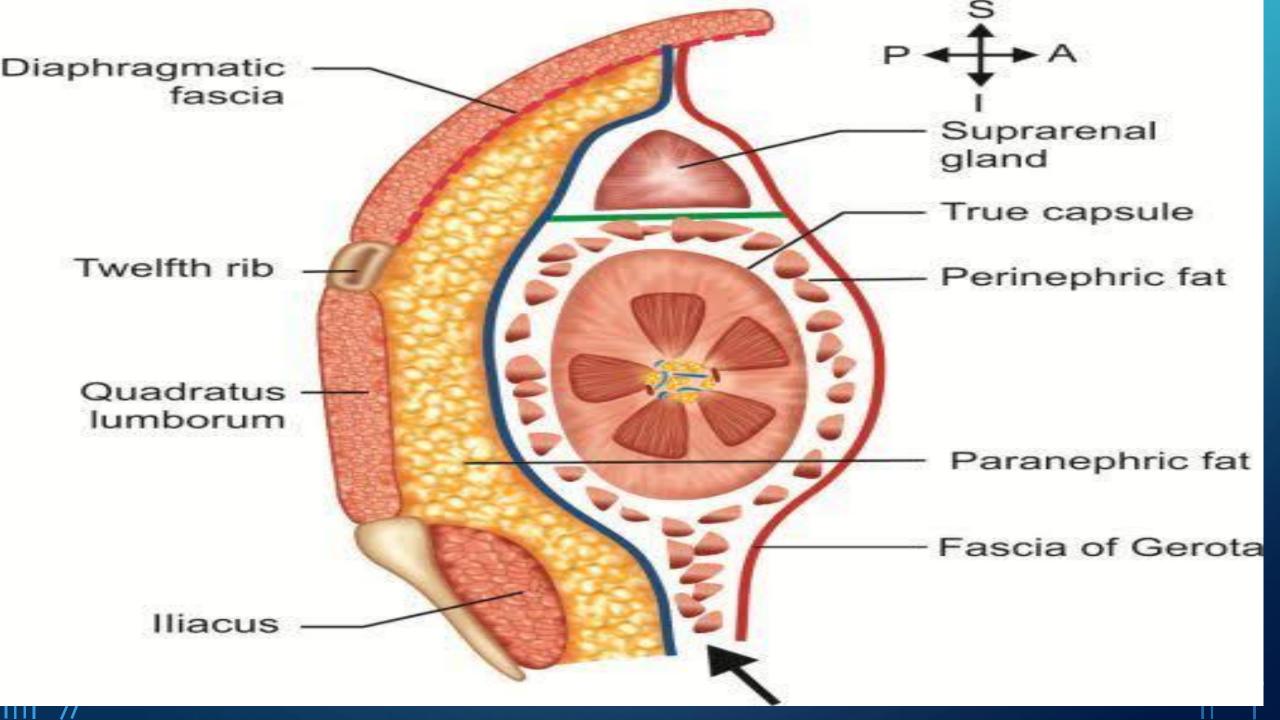


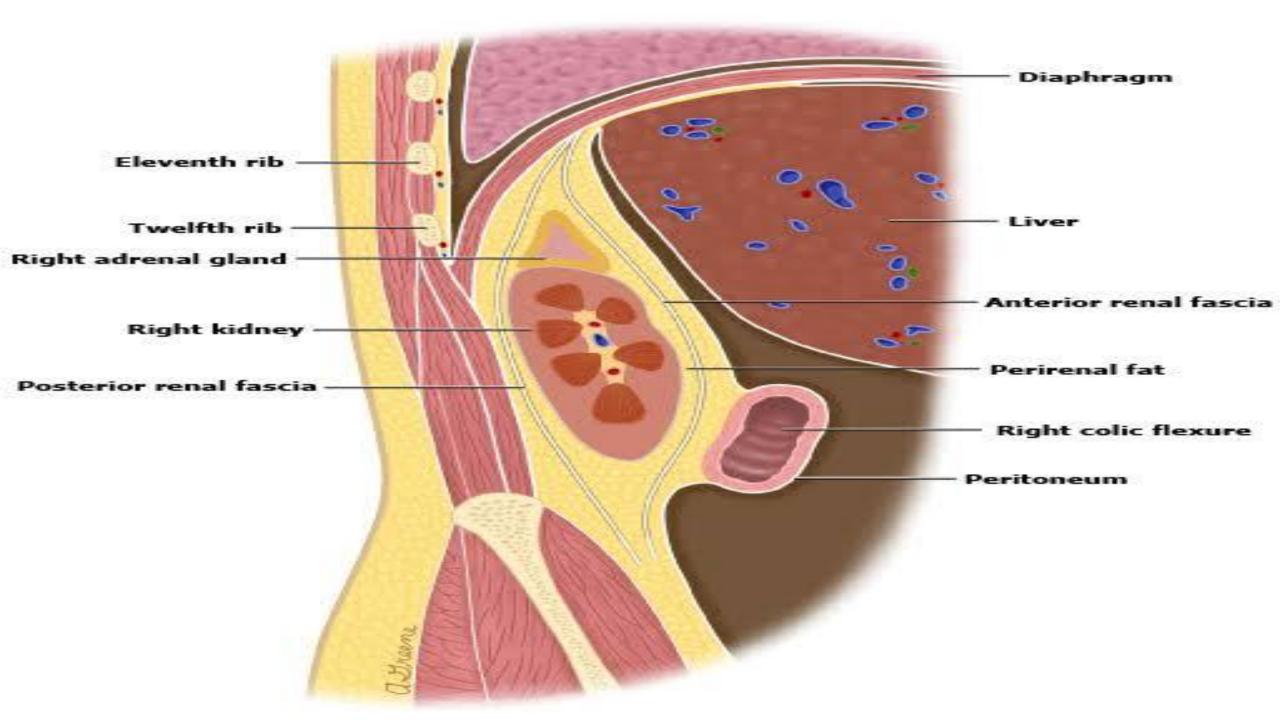
- Fibrous capsulePerirenal fat
- •Renal fascia
- Pararenal fat



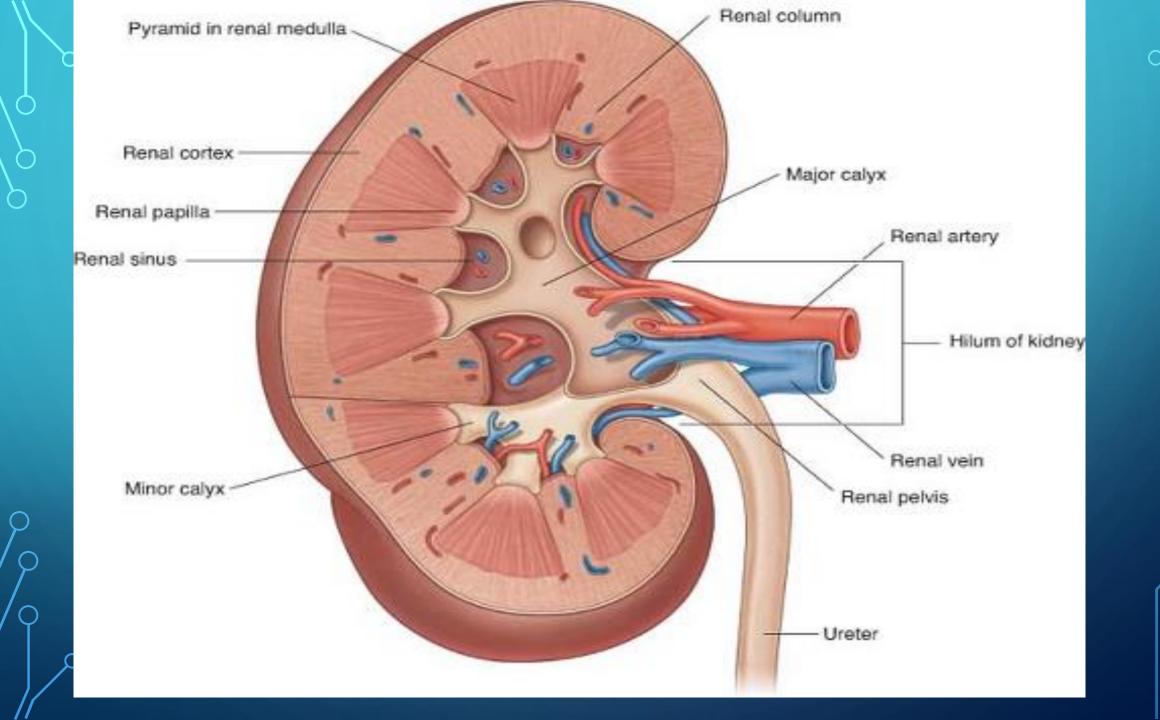
Oundratus lumbos muscle







## **STRUCTURE:** Each kidney has a concave medial border and convex lateral border HILUM is present on medial border of each kidney •The kidney has an : **Outer cortex** Inner medulla



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### HILUM:

- •Hilum is continuous with the renal sinus.
- •Hilum transmit from front to backward:
- Renal vein 2 branches of renal artery

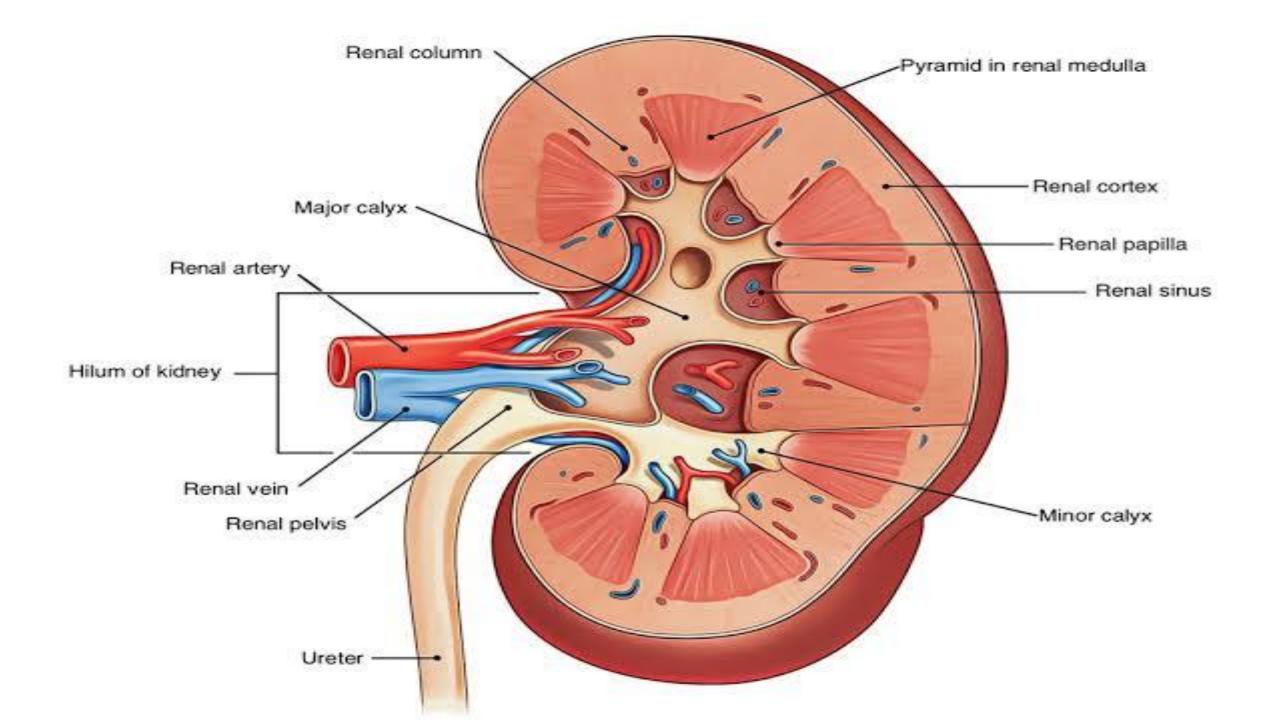
**CORTEX AND MEDULLA:** •Renal cortex is a continuous band of pale tissue that completely surrounds the renal medulla. Extension of renal cortex divide the medulla into pyramids •The base of pyramids are directed stowards renal cortex and apex

#### CONT;

 Renal papilla(apex of pyramid) is surrounded by a minor calyx.

•Minor calices unite in renal sinus to form a major calyx.

•2 or 3 major calices unite to form renal pelvis.



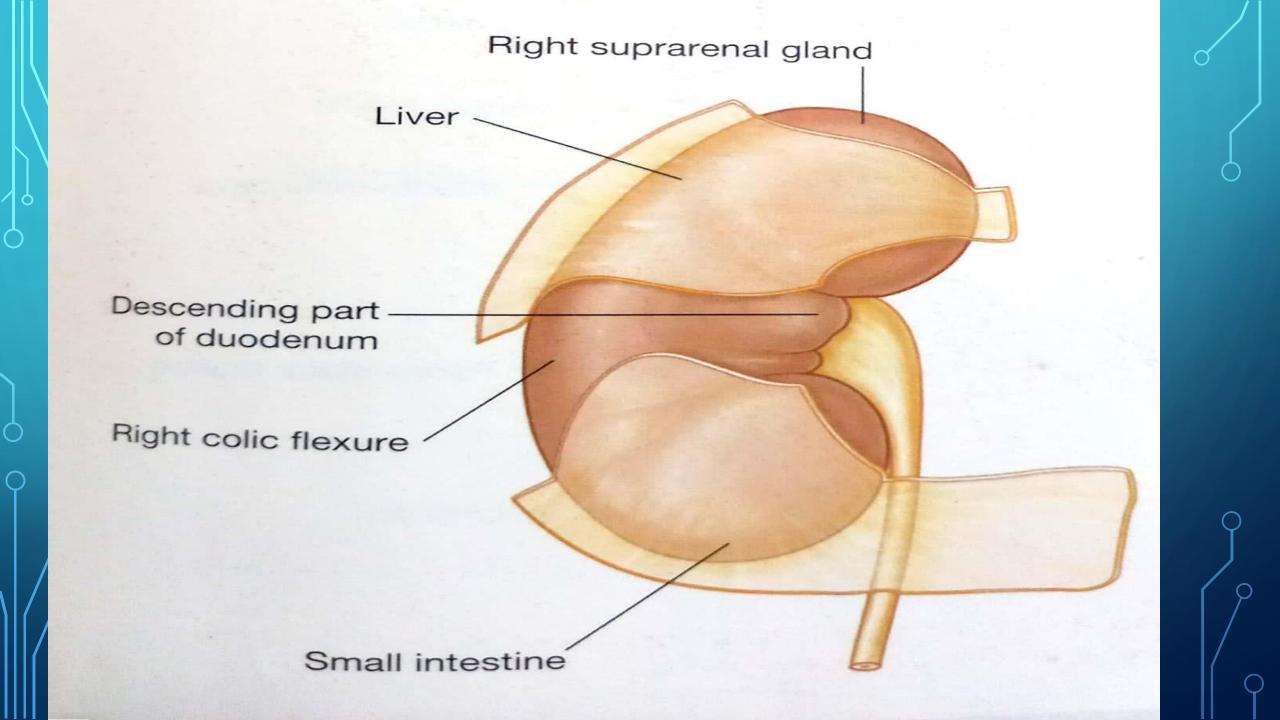
#### **RELATIONS:**

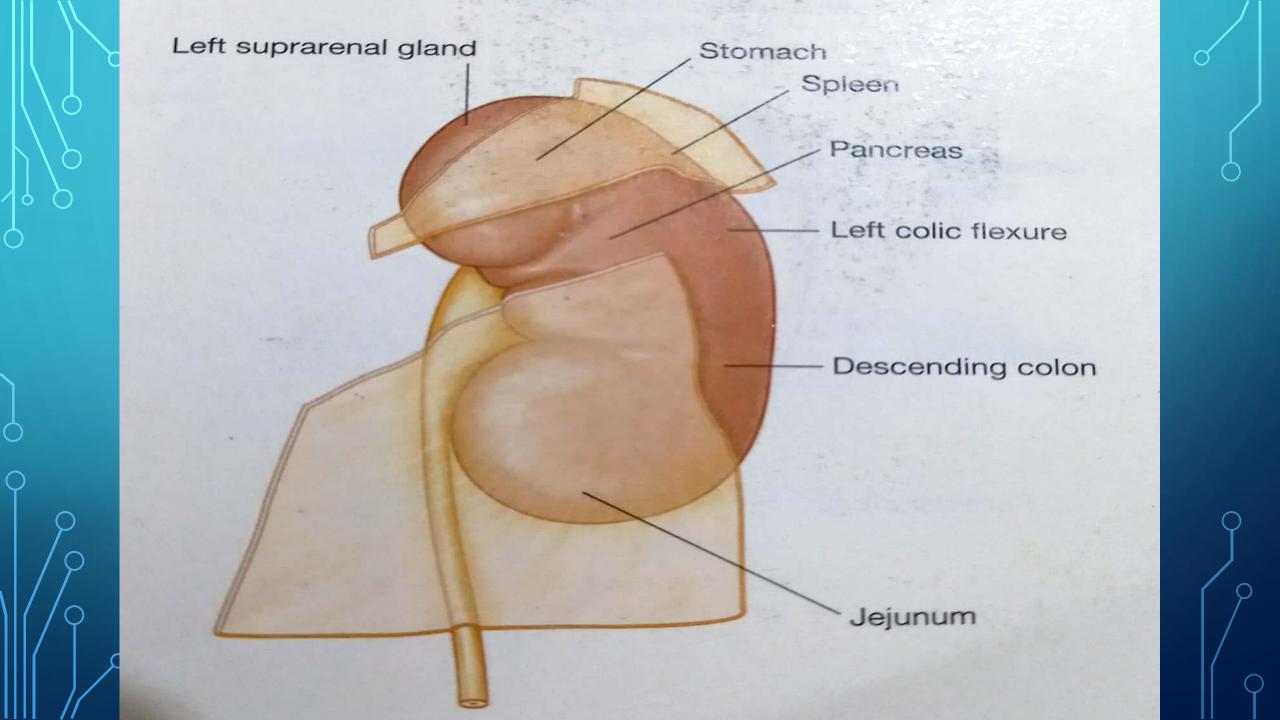
Anterior relations of RIGHT kidney:

Suprarenal gland, liver, 2<sup>nd</sup> part of duodenum, right colic flexure.

Anterior relations of LEFT kindey:

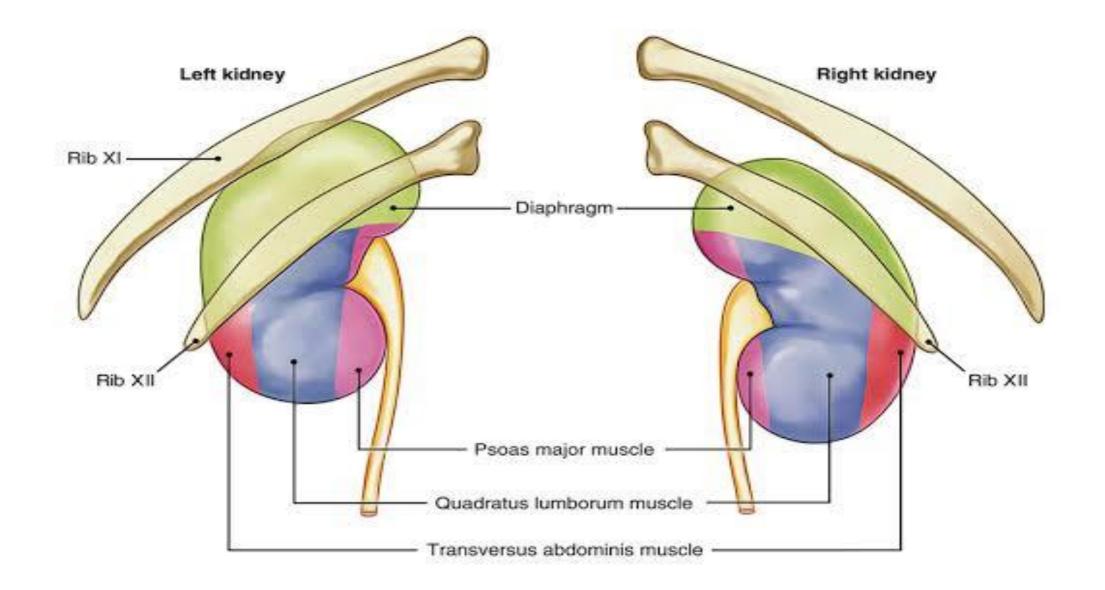
Suprarenal gland,spleen,stomach,pancreas,left colic flexure,coils of jejunum.





#### **POSTERIOR RELATIONS:**

 Diaphragm, costodiaphragmatic recess of pleurs, ribs (12th rib for right kidney and 11 and 12 th both for left kidney), psoas, quadratus lumborum,tranversus abdominis, subcostal, iliohypogastric and ilioinguinal nerve



#### **ARTERIES AND VEINS:**

 Renal arteries and renal veins Renal artery>>5 segmental arteries>>lobar arteries>>interlobar arteries>>arcuate arteries>>interlobular arteries>>affeebt glomerular arterioles

#### Intrarenal Arteries and Renal Segments

