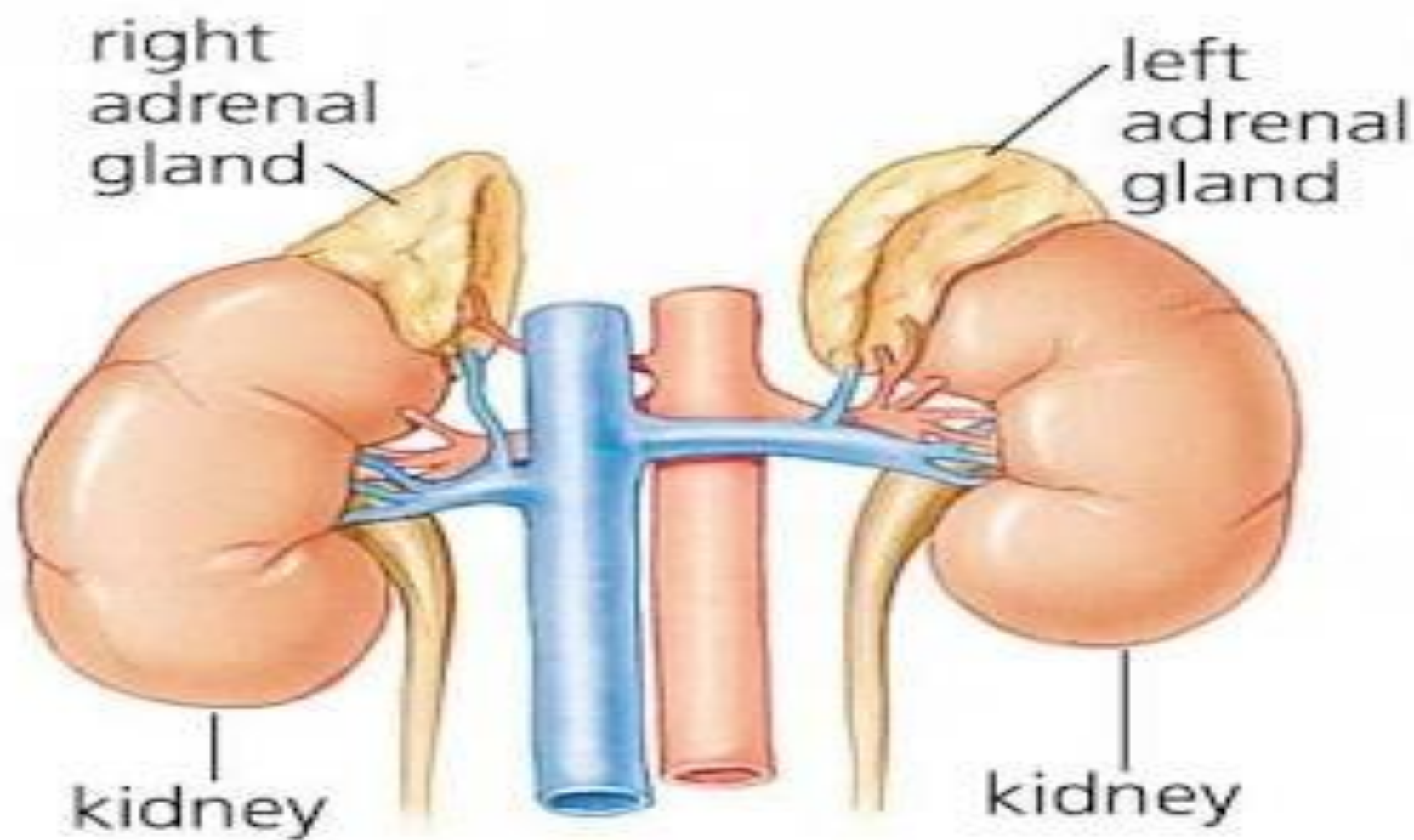
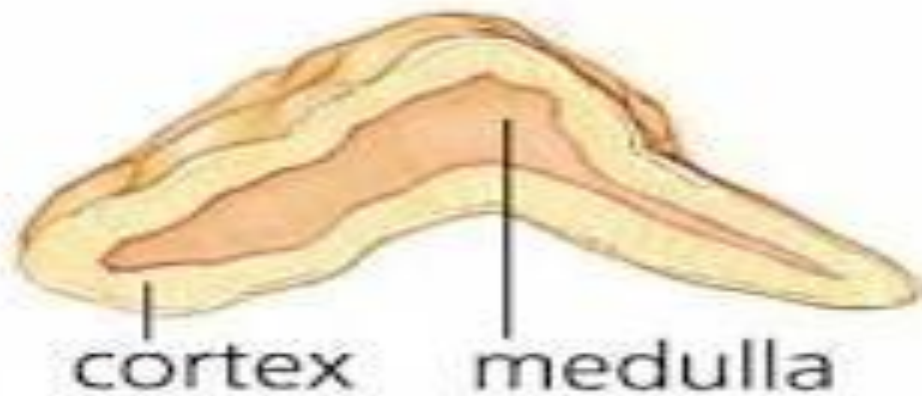


# Suprarenal gland

- **Other name-** adrenal gland
- The right and left suprarenal glands lie in close relationship to the upper poles of the corresponding kidneys.
- They are paired endocrine glands, richly vascular and yellowish pink in colour.
- They are enclosed with the kidney in the renal fascia, but lie outside the renal capsule.



- **Diameter-** vertical- 50mm  
transverse-30mm  
AP - 10mm

**Weight-** 5 gm

**Right suprarenal gland-** Pyramidal in shape, it has 3 borders ( anterior, medial, lateral), 3 surfaces (anterior, posterior), apex and base.

**Left suprarenal gland-** semilunar in shape

It has 2 borders (lateral and medial), 2 surfaces (anterior and posterior), 2 poles( upper and lower)

<b>Right supra renal gland</b>	<b>Left suprarenal gland</b>
<b>Apex- liver</b>	<b>Upper end- close to spleen</b>
<b>Base- Right kidney</b>	<b>Lower end- close to hilum, left suprarenal vein emerges from here</b>
<b>Anterior surface- IVC, Bare area of liver</b>	<b>Stomach (cardiac end) , pancreas, splenic artery</b>
<b>Posterior surface- Right kidney, Right crus of diaphragm</b>	<b>Left kidney, left crus of diaphragm</b>
<b>Anterior border- hilum , right supra renal vein emerges here</b>	
<b>Medial border- Coeliac ganglion</b>	<b>Coeliac ganglion</b>
<b>Lateral border- Liver</b>	<b>Stomach</b>

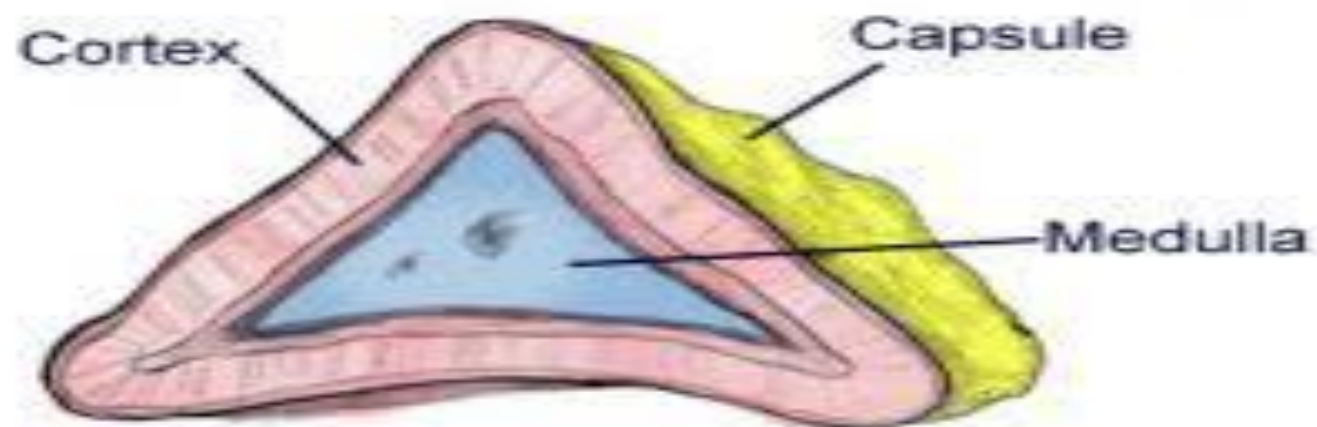
- **Structure-**

The suprarenal gland is surrounded by a capsule. Septa arising from the capsule extend into the substance of the gland.

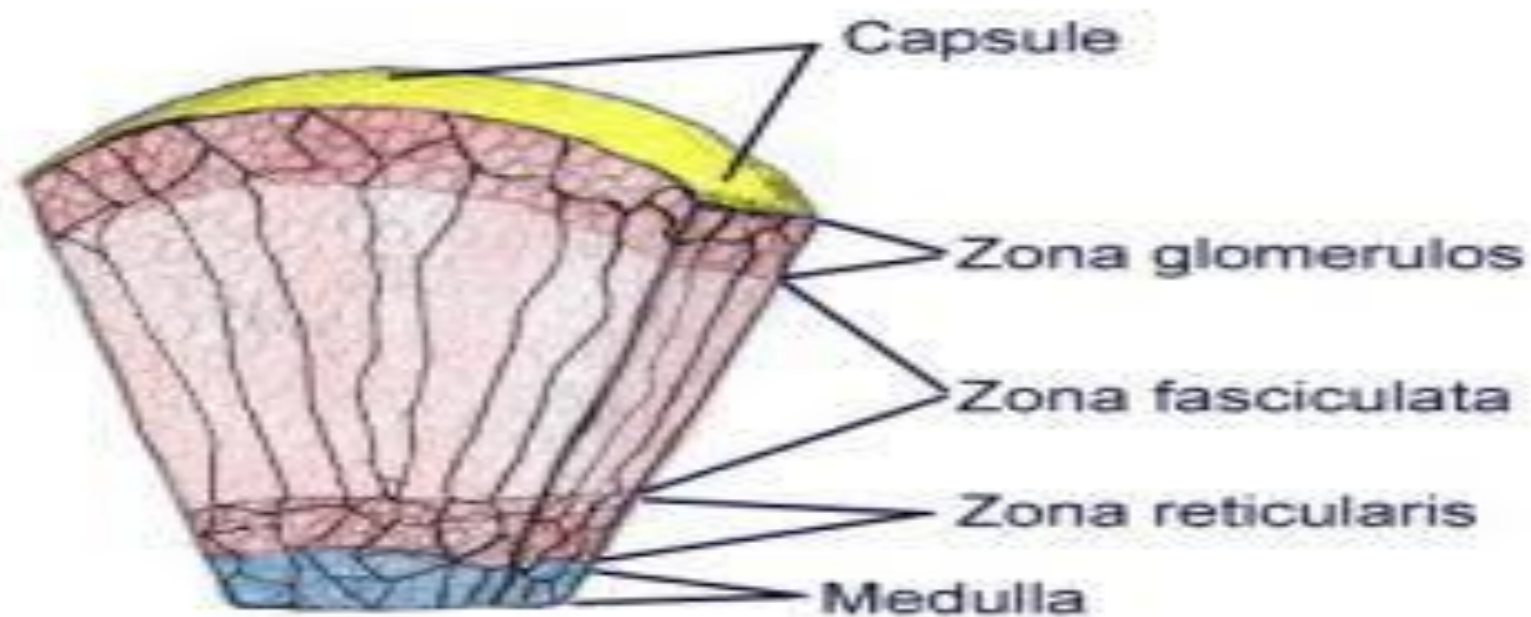
The gland is made up of a superficial part called the cortex and a deeper part called the medulla.

Cortex can be divided into 3 zones-

1. The outermost zone - **zona glomerulosa-mineralocorticoids**
2. The middle zone- **zona fasciculata-glucocorticoids**
3. The inner zone- **zona reticularis- sex hormones**



Transverse section



Microscopic section

- The medulla is composed of chromaffin cells that secrete adrenalin and noradrenalin. Nerve fibres and neurons are also present.

- **Arterial supply-**

Superior suprarenal artery

Middle ~~~~~~

Inferior~~~~~

- **Venous drainage-**

Right suprarenal- IVC

Left- left renal

- **Nerve supply-**

**The suprarenal medulla has a rich nerve supply through myelinated preganglionic sympathetic fibres. Chromaffin cells homologous with postganglionic sympathetic neurons.**