Anatomy of Adrenal glands

Gland		Right suprarenal	Left suprarenal
Shape		- **Pyramidal** in shape - Caps the upper pole of the right kidney	- **Crescentic** in shape - Extends along the medial border of the left kidney from the upper pole to the hilus.
Relations	Anterior	- Right lobe of the liver - Inferior vena cava (IVC)	- Pancreas - Stomach - Lesser sac
	Posterior	**Diaphragm**	
	Medial	**Celiac plexus and ganglia**	

Blood supply	**1) Superior suprarenal artery** which emerges from **inferior Phrenic artery.** - Right inferior Phrenic artery > Right Superior suprarenal artery. - Left inferior Phrenic artery > Left Superior suprarenal artery.
	2) Middle suprarenal artery which emerges from **Abdominal Aorta.**
	3) Inferior suprarenal artery which emerges from **Renal artery**.
Venous drainage	A **single vein** emerges from the hilum of each gland and drains into the **inferior vena cava on the <u>right side</u>** and the **left renal vein on the <u>left side</u>** In other words : - Right adrenal vein drains into Inferior vena cava (IVC). - Left adrenal vein drains into the left renal vein.
Lymph drainage	The lymph drains into the **lateral aortic lymph nodes.**
Nerve supply	- **Preganglionic sympathetic fibers** derived from the **splanchnic nerves** supply the glands. - Most of the nerves end in the **medulla** of the gland.
Functions	**Cortex :** - Mineralocorticoids : Fluid and electrolytes balance. - Glucocorticoids : Metabolism of carbs, proteins and fats. - Sex steroids : Prepubertal development of sex organs. **Medulla :** Secretion of catecholamine (Epinephrine and Norepinephrine).

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