

Suprarenal glands:

Component of:	the hypothalamic-pituitary-suprarenal axis that is responsible for coordinating stress response and metabolism .		
Location:	<ul style="list-style-type: none"> ➤ Are yellowish retroperitoneal organs. ➤ On the upper poles of the kidneys, at the level of <u>the last thoracic vertebra (T12)</u>. 		
Enclosed within:	Renal fascia with the kidney but in a separate compartment, that allow the two organs to be separated easily during surgery.		
Separated from the kidney by	Peri-renal fat		
Composed of:	Outer yellow cortex		Inner dark brown medulla
	Mineral corticoids	Glucocorticoids	secretes the catecholamines: epinephrine and norepinephrine
	Control of fluid and electrolyte balance	Control of the metabolism of carbohydrates, fats, and proteins	
	Sex hormones "small amounts"	Prepubertal development of the sex organs.	

Right suprarenal gland VS Left suprarenal gland.

		Right Suprarenal gland	Left suprarenal gland
Shape:		pyramidal in shape.	crescentic in shape
Location:		Caps the upper pole of the right kidney. At the level of T12	Extends along the medial border of the left kidney from the upper pole to the hilus T12 → L1
RELATIONS	Ant.	1-Right lobe of the liver . 2-Inferior vena cava.	1-Pancreas . 2-lesser sac , 3-Stomach .
	Post.	Diaphragm .	
	Med.	Celiac plexus and ganglia .	

Blood supply.

Arterial			Venous:	
Superior suprarenal	Middle suprarenal	Inferior suprarenal	Right adrenal vein:	Left adrenal vein:
inferior phrenic artery Abdominal aorta → Inferior phrenic artery → superior suprarenal	abdominal aorta "directly"	renal artery . Abdominal aorta → renal artery → inferior suprarenal	Each vein is a single vein emerge from hilum of each gland.	Each vein is a single vein emerge from hilum of each gland.
			Drains into: the inferior vena cava	Drains into: the left renal vein → IVC. ممكن يقولون وين يصب؟ ويحطون الانفرير من ضمن الخيارات ➤ صدق انه يصب فيه بالنهاية لكن مايبونه بيون انه يصب بالفت رينال Left renal also receives left gonadal.

Lymphatic & Nervous supply.

Lymphatic drainage:	Nervous supply:
The lymph drains into the lateral aortic "para aortic" lymph nodes	<ul style="list-style-type: none"> ▪ Preganglionic sympathetic fibers ▪ Derived from: the splanchnic nerves supply the glands. ▪ Most of the nerves end in the medulla of the gland. <p style="font-size: small; color: magenta;">ONLY sympathetic!! Relay on celiac → Post to supra-renal.</p>