## DEVELOPMENT OF THE SUPRARENAL GLAND

## \* *The suprarenal cortex:* is **mesodermal** in origin.

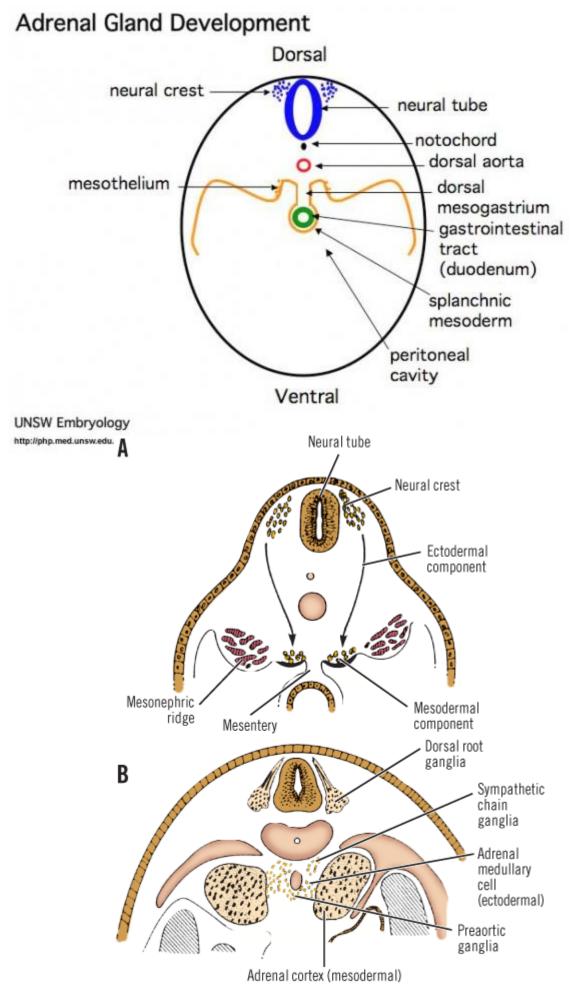
- During the 5<sup>th</sup> week , **mesothelial cells** of the coelomic epithelium on either side of the mesentery of the gut proliferate to form the *fetal cortex.*
- A second layer of cells develop from the coelomic mesothelium and surround the fetal cortex to form the *permanent cortex.*
- \* *The suprarenal medulla:* is ectodermal in origin.
- Chromaffin cells derived from the **neural crest** migrate to enter the medial aspect of the fetal cortex and form the *suprarenal medulla*.

## \* FATE:

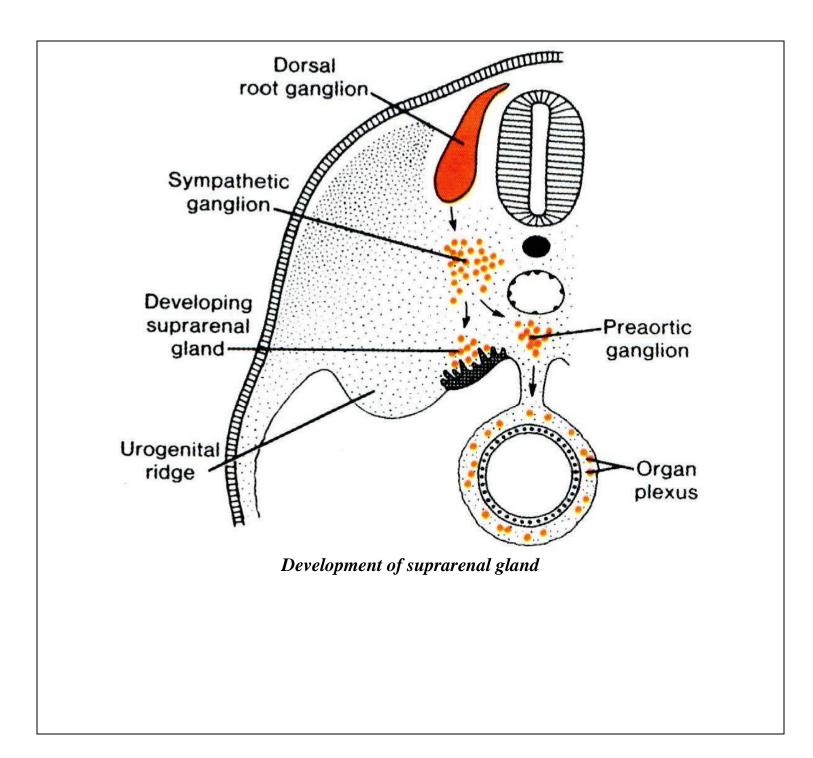
- The **fetal cortex** regresses rapidly except its outer layer which differentiated into *zona reticularis*.
- The permanent cortex differentiates into: *zona glomerulosa and zona fasciculate*.
- Zona glomerulosa and zona fasciculate are present at birth while zona reticularis not recognizable until the end of third year.

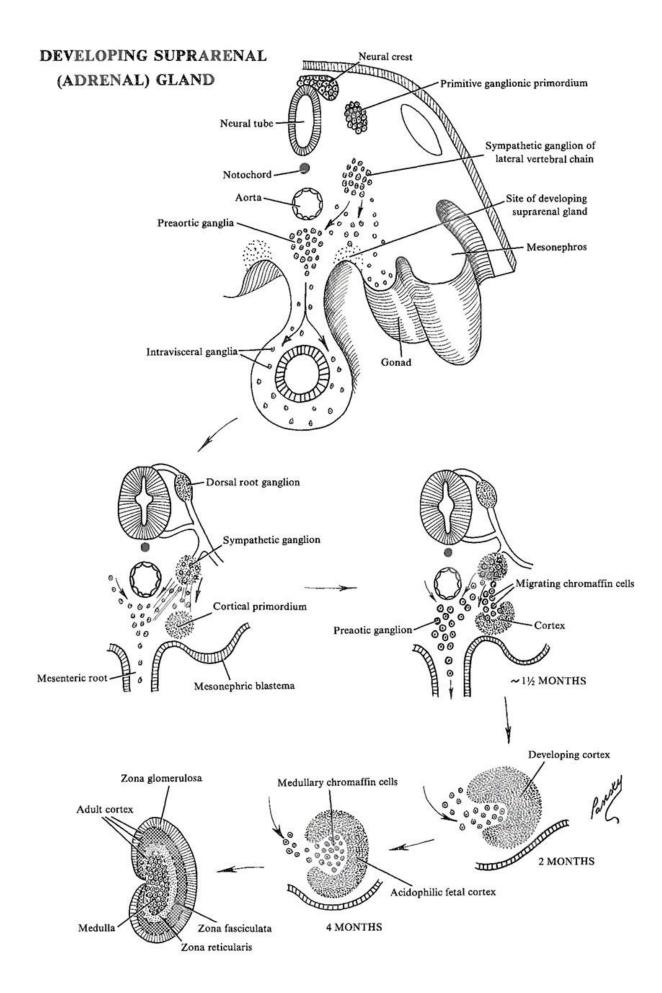
## \* CONGENITAL ADRENAL HYPERPLASIA:

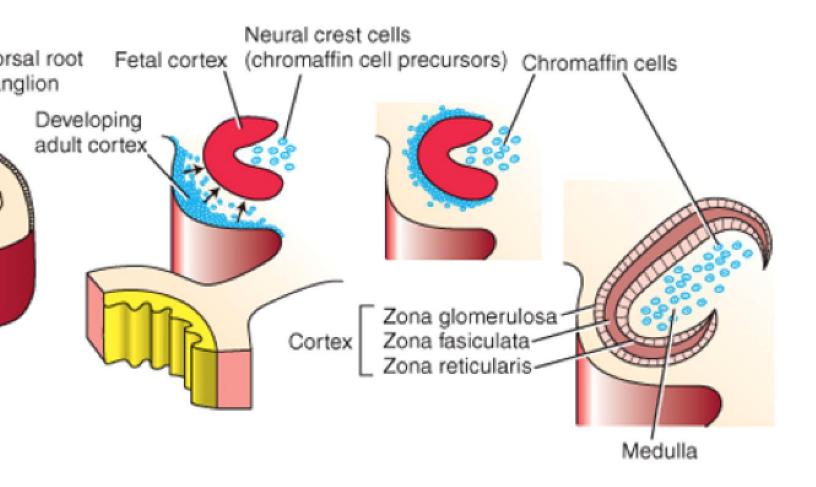
- It is a genetic disorder associated with excess ACTH secretion by the pituitary leading to hypertrophy of suprarenal cortex and over production of androgens.
- It results in pseudohermaphrodism in the female.

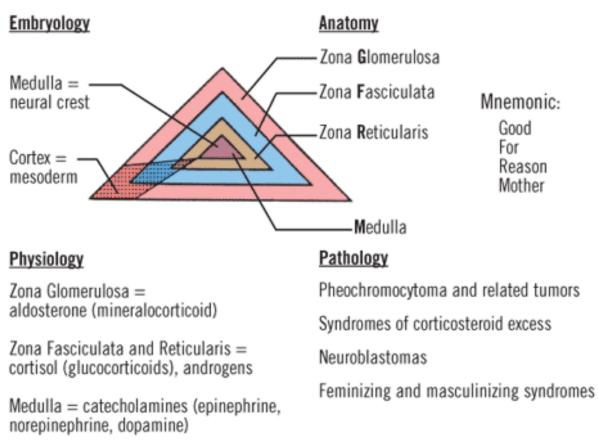


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