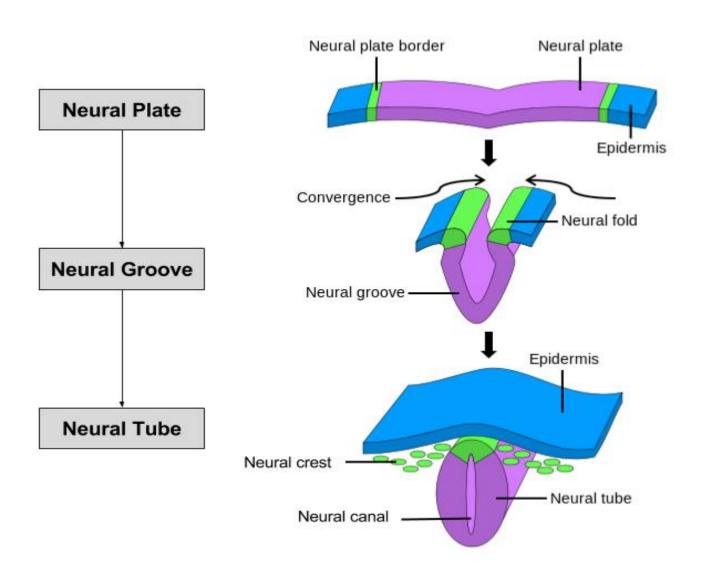
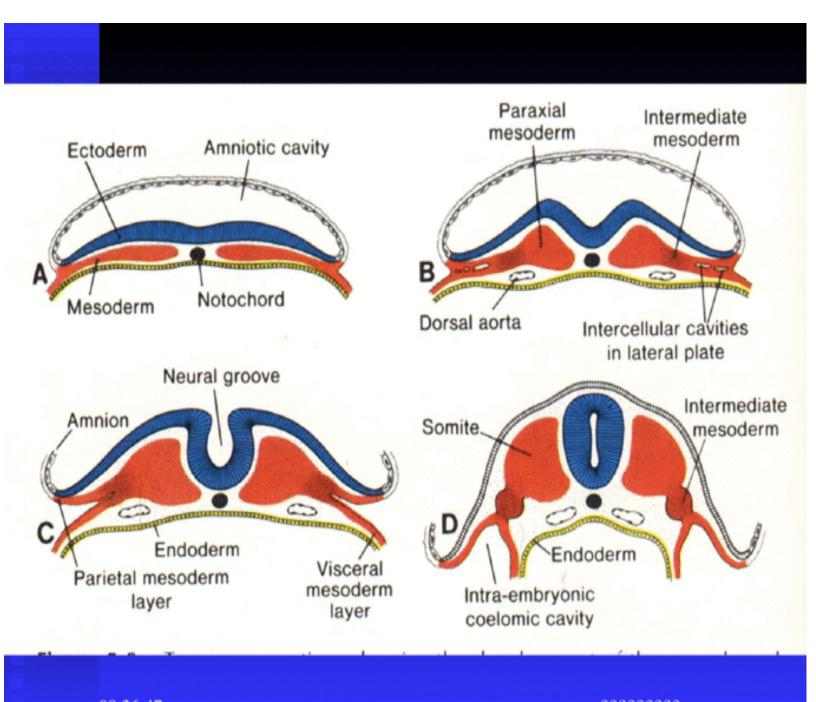
★ Neurulation:

- It is the **beginning** of development of the central nervous system by **formation of the neural tube** as follows:
- 1. At the beginning of 3rd. week , the notochord stimulates proliferation of the overlying ectoderm leading to formation of the **neural plate** .
- 2. Formation of the **neural groove** & its raised edges form **neural folds**.
- 3.**Fusion** of the neural folds , **starts** in the middle of the embyo and **proceeds** in a cranial and caudal directions , with formation of **neural tub** .
- 4. The surface ectoderm regains its continuity again.
- 5. The **fusion** of the folds is **absent** at the anterior & posterior **end**s of the tube leaving 2 openings on the surface ectoderm called **the anterior & posterior neuropores**.
- 7.Anterior neuropore closes at 23rd day while posterior neuropore **closed** at 25th day.
- 8. The closed neural tube develops into the **brain and spinal cord**.



★ Please see this excellent video for nurulation : https://www.youtube.com/watch?v=IGLexQR9xGs



08:36:47 ????????

★ Dorsal View to the Embryo at the beginning of 3rd. Week

