

Learning objectives

Students are expected to learn and be able to describe the following points:

- the ectodermal origin of the nervous system
- the events leading to primary neurulation
- the progression of events in formation of the neural tube
- the developmental fate of neural crest cells
- the 3 primary and the 5 secondary vesicles of the developing nervous system, and the parts of the nervous system arising from each
- how the ventricular system is formed
- the location and function of the choroid plexus
- the order of major developmental stages, and approximate age at which they occur
- migration of neurons, and the role of radial glia
- the principal malformations resulting from abnormal neural development, diagnostic tests, and treatments/prevention
- progression of postnatal CNS development, including synapse formation and pruning, and myelination