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THIRD WEEK OF DEVELOPMENT

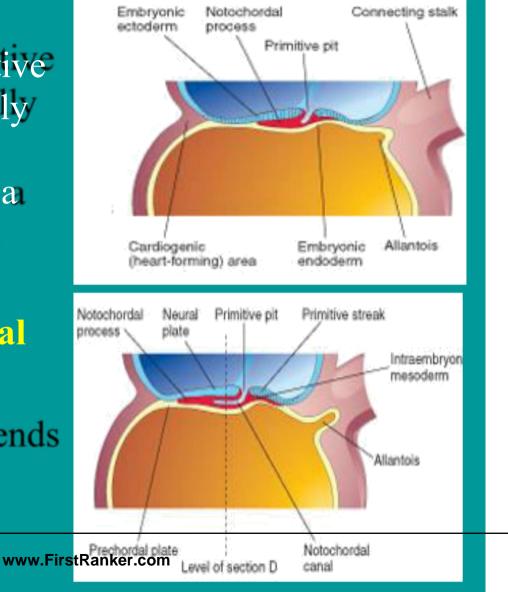
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FORMATION OF NOTOCHORD

Prenotochordal cells invaginating in the primitive pit, move forward cranially until they reach the prechordal plate forming a median cellular cord, the notochordal process.

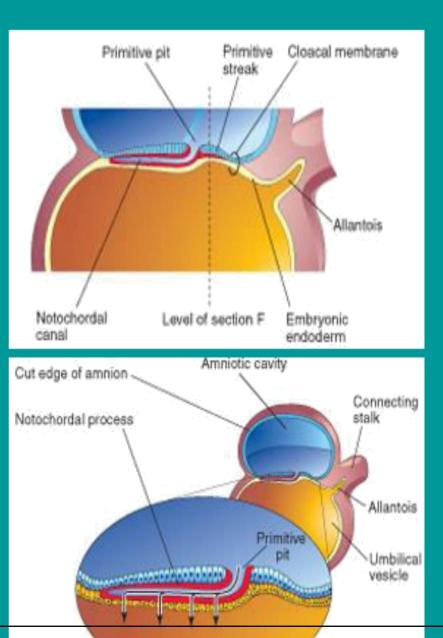
Formation of notochordal canal

Notochordal process extends éxtends from prechordal plate to primitive node



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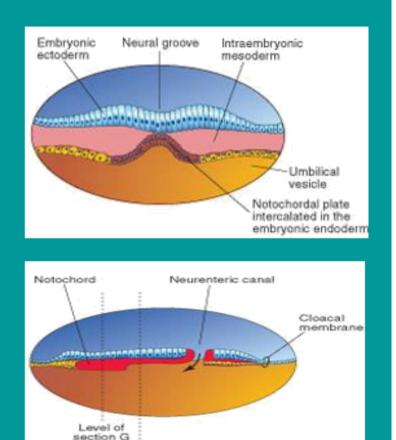
The floor of the notochordal process fuses with the underlying embryonic endoderm. The fused layers gradually undergo degeneration, resulting in the formation of openings in the floor of the notochordal process, which brings the notochordal canal into communication with the ksac.

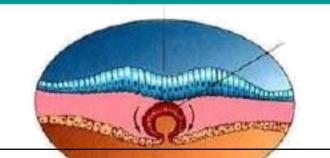


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The openings rapidly become confluent and the floor of the notochordal canal disappears; the remains of the notochordal process form a flattened, grooved notochordal plate Beginning at the cranial end 6 of the embryo, the notochordal cells proliferate d the notochordal plate notochord. VP





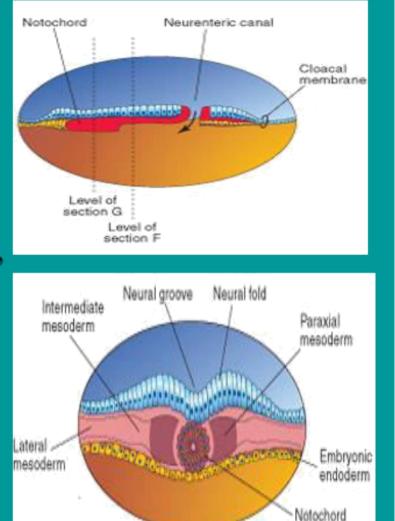
Level of section F

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The proximal part of the notochordal canal persists temporarily as the neurenteric canal , which

forms a transitory communication between the amniotic and yolk sac cavities. When development of the notochord is complete, the neurentericlete, canal normally obliterates. The notochord becomes

Continuous layer and itself to the definitive itself to the definiti



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THE NOTOCHORD

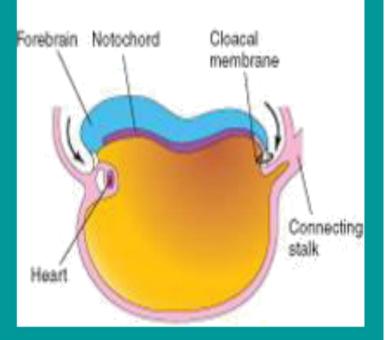
- The notochord degenerate as the bodies of vertebrae form but small portions of it persist as Nucleus pulposus.
- Provides signals that are necessary for the development of axial musculoskeletal structures and the central nervous system
 Defines the primordial longitudinal axis of the embryo and gives it some rigidity

Remnants of notochord tissue

 Both benign and malignant tumorss (chordomas) may form from vestigiall remnants of notochordal tissuee

ALLANTOIS

- Sausage shaped diverticulum appears on the16th day and grows into into the mesoderm of the connecting stalk.
- In humans allantoic sac remains small.
- It has a respiratory or excretory function in embryos of reptiles, birds and some mammals.



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Thank You