AL-ZAHRAA MEDICAL COLLEGE



## The module: Cardiovascular system Session 2, Lecture 1 Duration : 1 hr

# Early Development of the Cardiovascular System

Module staff:

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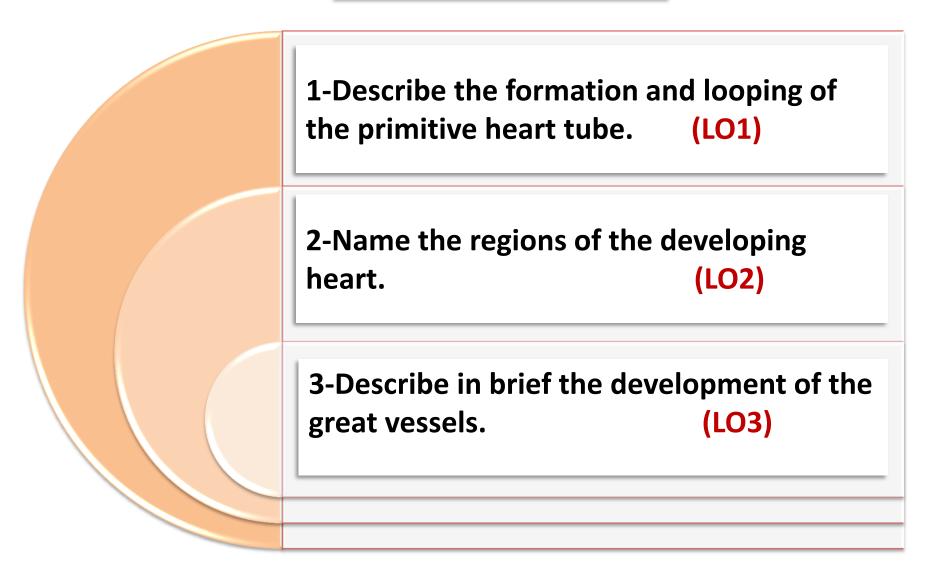
## As in work book



For more discussion, questions or cases need help please post to the session group



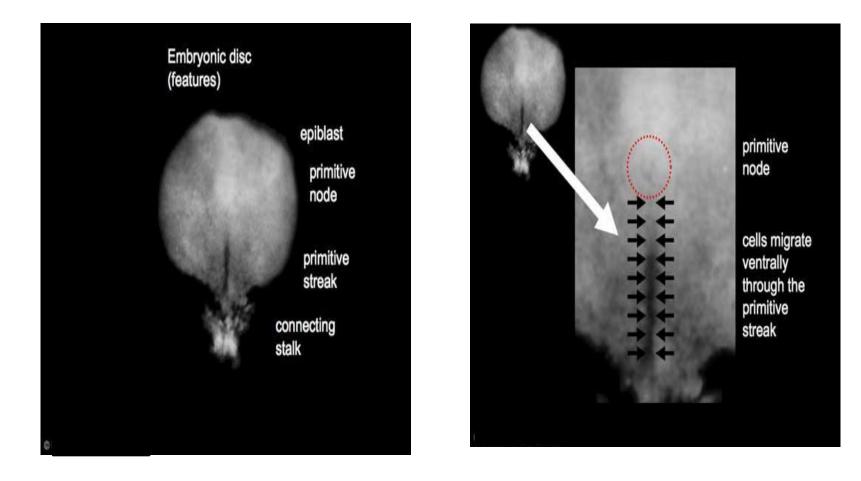
Learning outcomes:







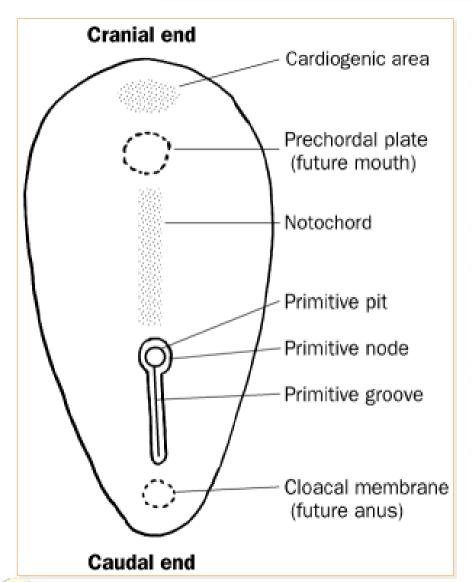
## **Gastrulation and the cardiogenic field**





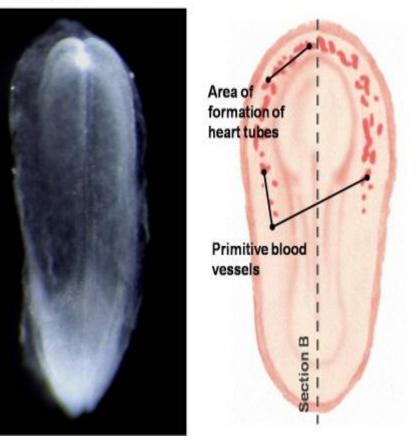


# Gastrulation and the cardiogenic field



### Embryo approximately 18 Days

#### A Dorsal view

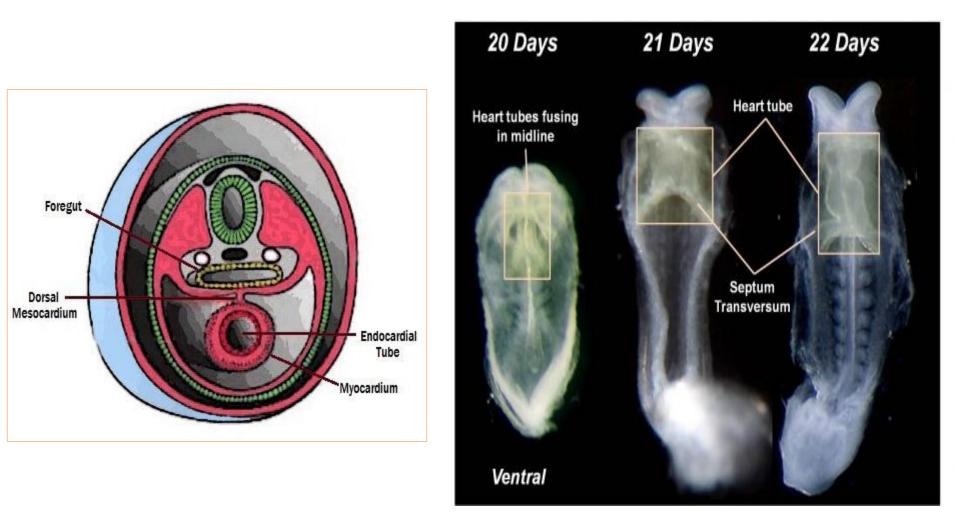






**LO1** 

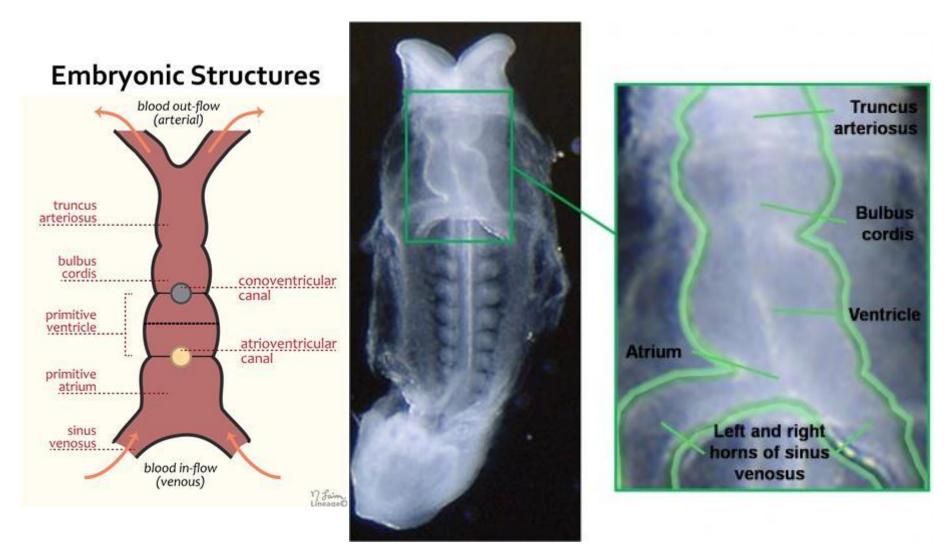
# The formation of heart tubes







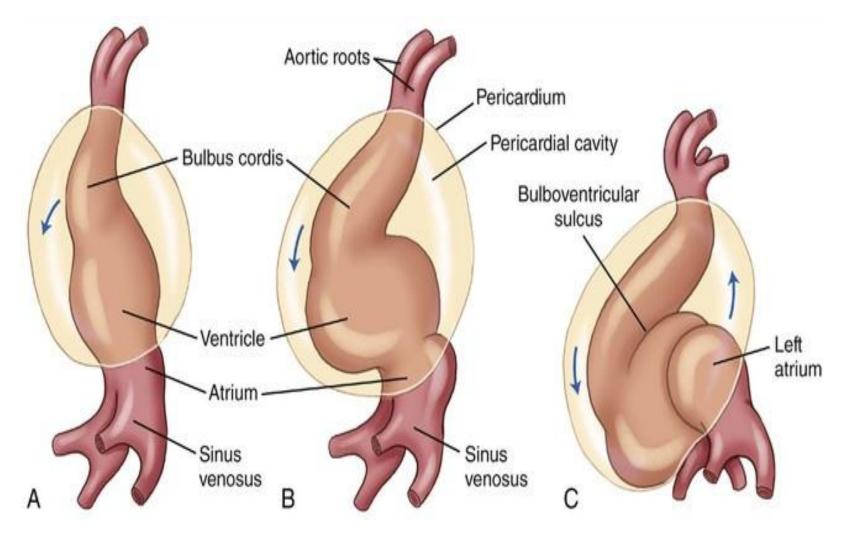
The primitive heart tube







# The primitive heart tube

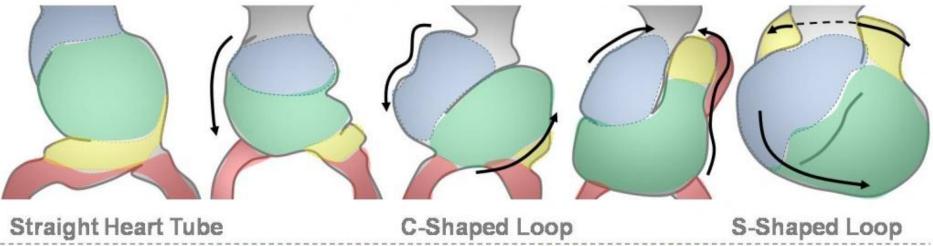






# Looping of the primitive heart tube and development of the great vessels

## Sequence of Events in Looping



Blue = Bulbus Cordis Green = Ventricle

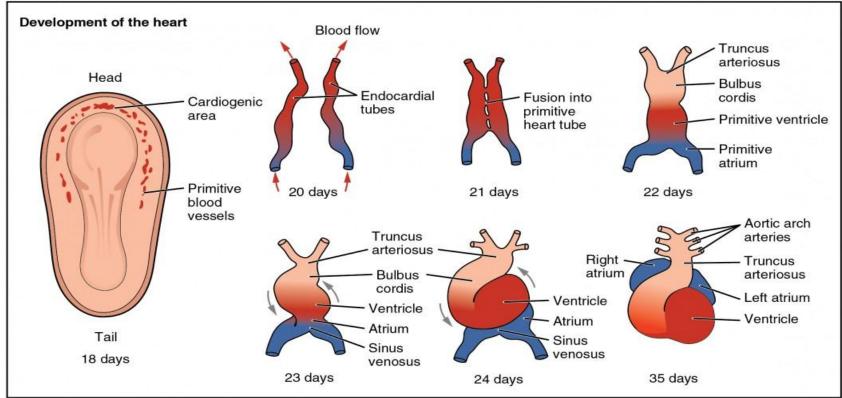
Yellow = Atrium Red = Sinus Venosus

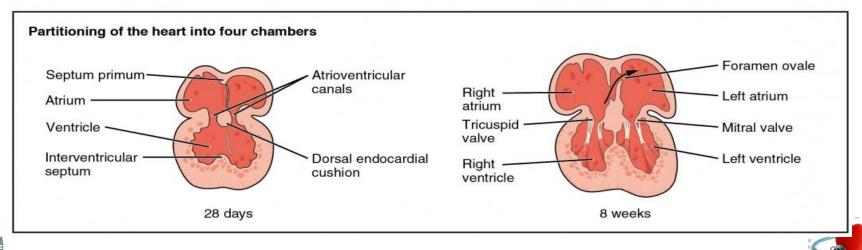
Looping places both the inflow and outflow cranially with the inflow dorsal to (behind) the outflow.





LO3







Embryological dilation	Adult structures
Primitive atrium	Trabeculated part of right and left atria
Primitive ventricle	Trabeculated part of left ventricle
Bulbus cordis	Part of right ventricle
Truncus arteriosus	roots and proximal portions of the pulmonary trunk and aorta.



