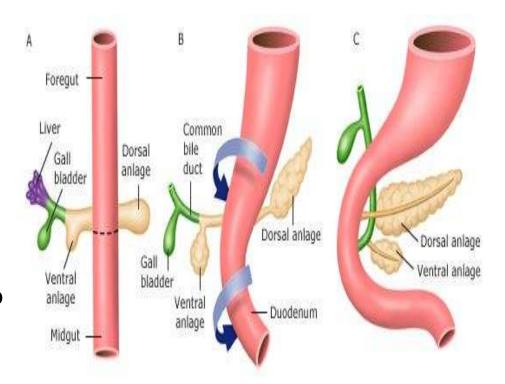
Embryology Of Accessory Organs Of G.I.T.

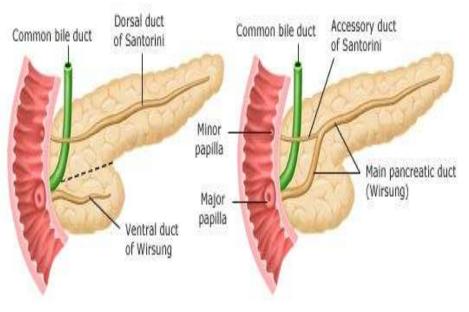
Pancreas:

oIt arised from endoderm that lined duodenum as 2 buds:

1)Dorsal bud

- 2)Ventral bud which moved dorsally to lie below dorsal bud, later the paranchyma & duct system of 2 buds will fused.
- N: Ventral bud form uncinate process
 & inferior part of head while the
 remaining part is derived from dorsal
 bud .



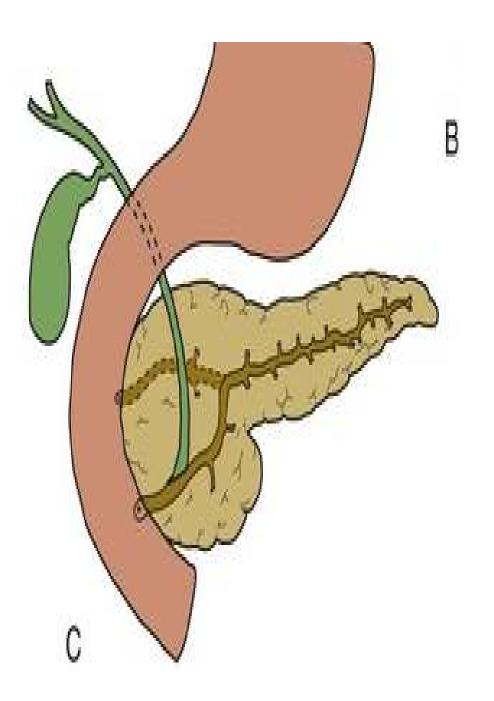


Pancreas divisum

Normal pancreas

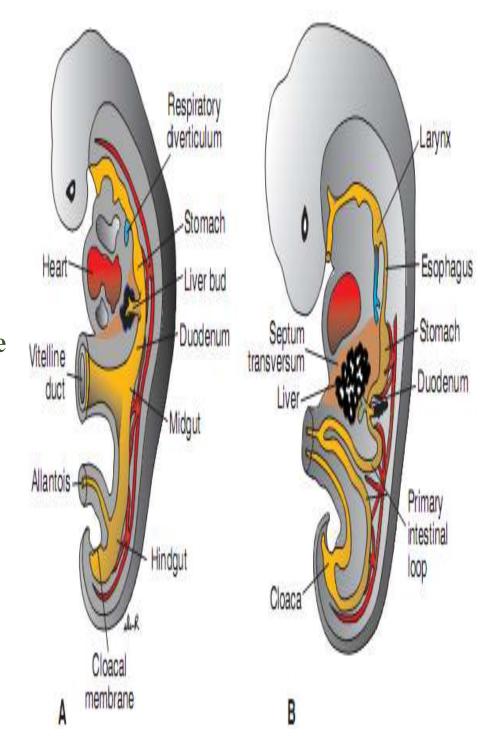
Pancreatic duct system:

- •Main pancreatic duct (Wirsung)
 formed by the distal part of dorsal
 pancreatic duct & entire ventral
 pancreatic duct.
- ■The proximal part of dorsal pancreatic duct either obliterated if it persist called accessory pancreatic duct (Santorini).

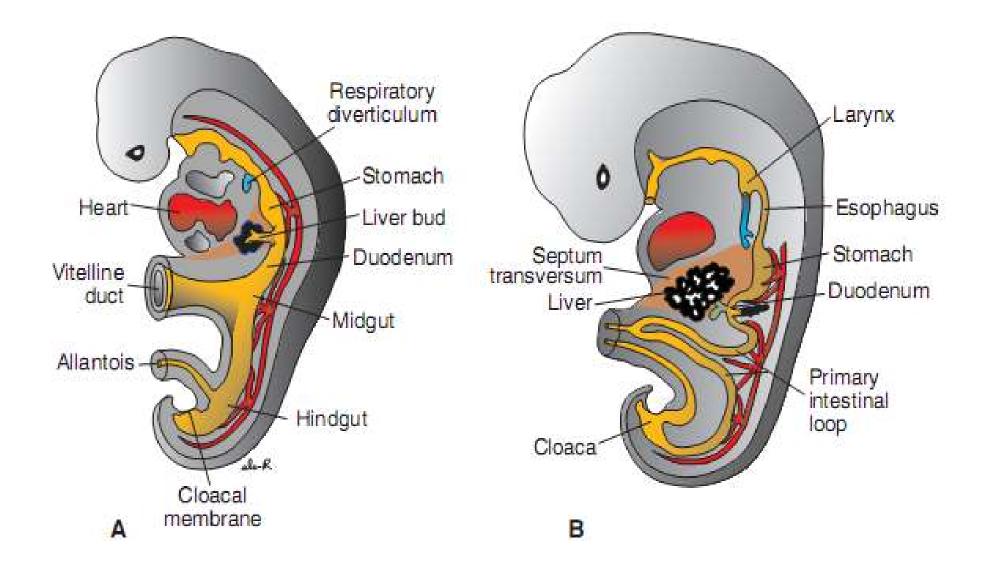


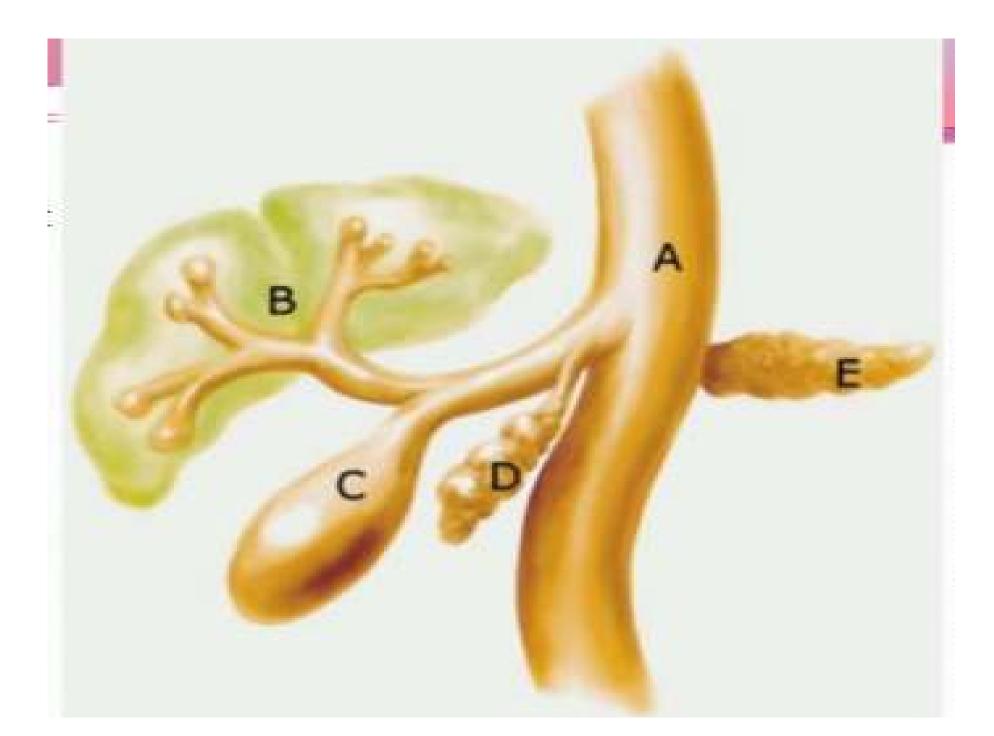
Liver & Gallbladder:

- *At 3rd wk hepatic diverticulum arised from endoderm of foregut.
- **❖It rapidly proliferated & penetrated septum transversum** (mesdermal plate
 between pericardial cavity & stalk of
 yolk sac).



☐ The connection between liver & foregut narrows to form the bile duct, outgrowth from this duct give rise to gallbladder & cystic duct.





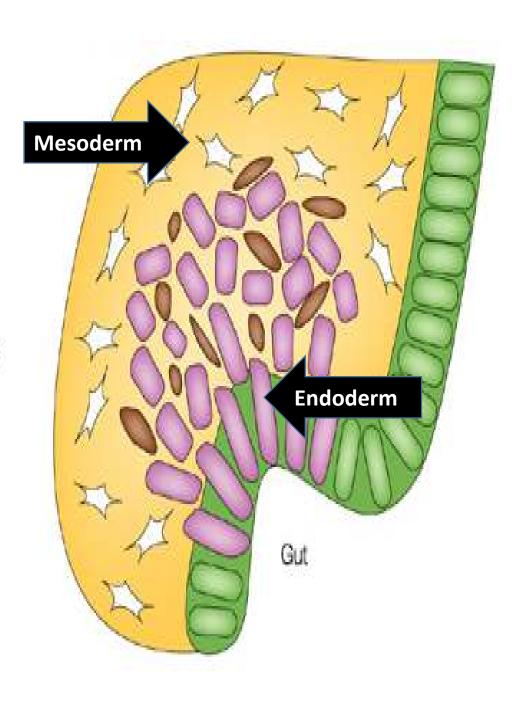
Differentiation of liver:

- oLiver cords are endoderm

 differentiated to parenchyma liver

 cells ,kupffer cell, hematopoietic cell

 lining epithelial of biliary ducts.
- The connective tissue cells arise from mesoderm of septum transversum.



Position of liver:

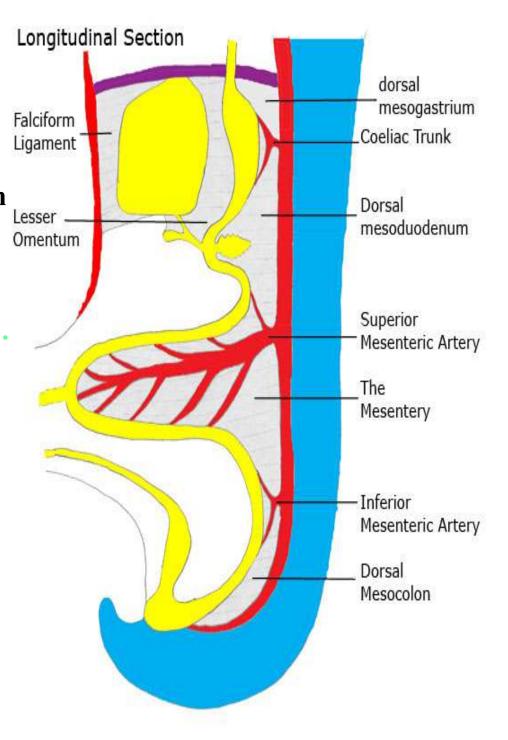
Once liver invades septum

transversum, the mesoderm of septum

transversum be membranous form

falciform ligament & lesser omentum.

The mesoderm on the liver surface give rise to visceral peritoneum .



Function Of Liver:

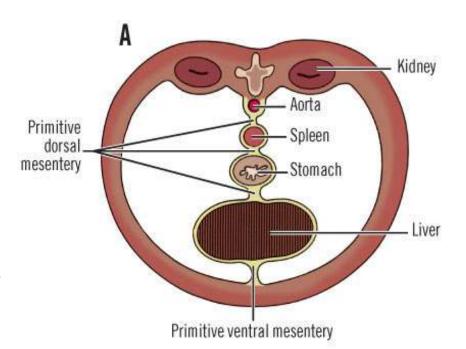
oAt 10 wk the wt. of liver is 10% of TBW because large number of sinusoid & major hematopoietic function.

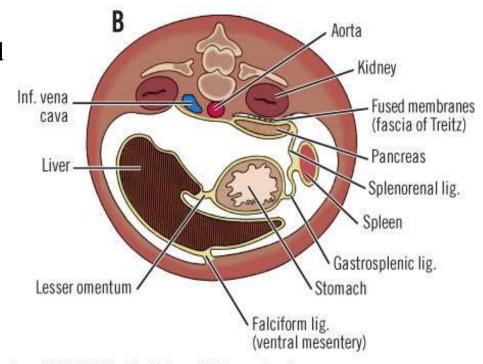
OAt last 2mth of intrauterine life this activity of subside & small hematopoietic islands remain at birth so liver is 5% of TBW.



Spleen:

 At 5th wk of development Spleen primordium appear as mesodermal proliferation between 2 leaves of dorsal mesogastrium & with rotation of stomach the spleen swing to LT & fused with posterior abdominal wall & degenerated,





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