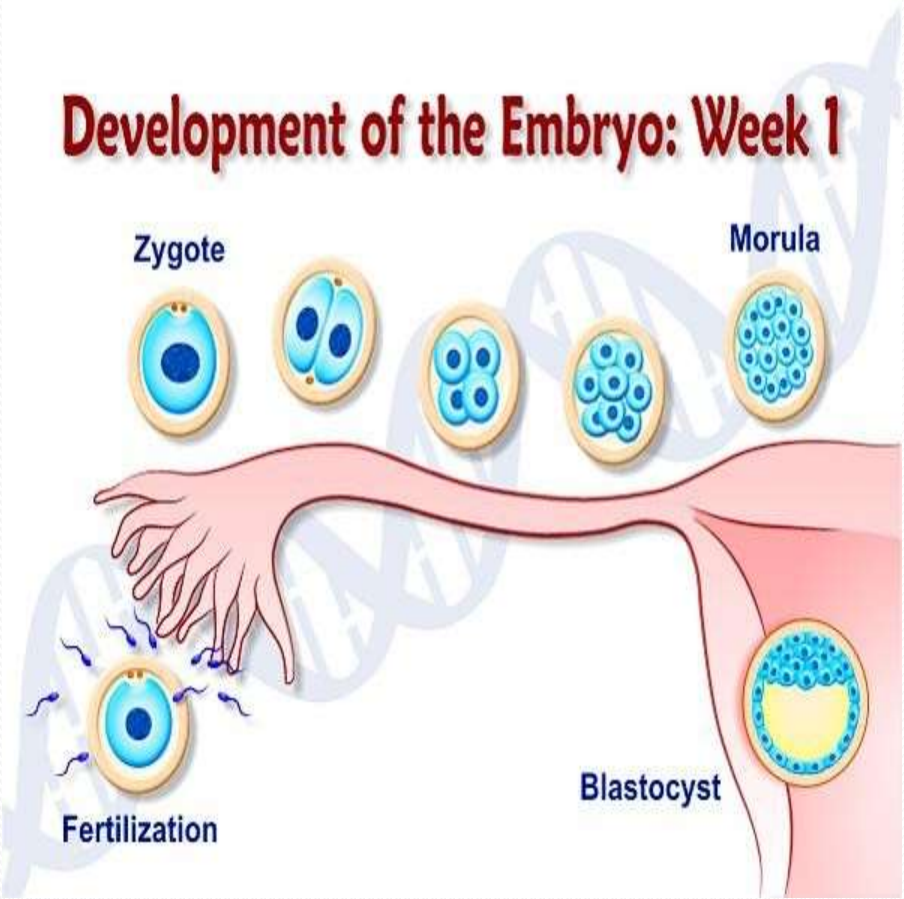
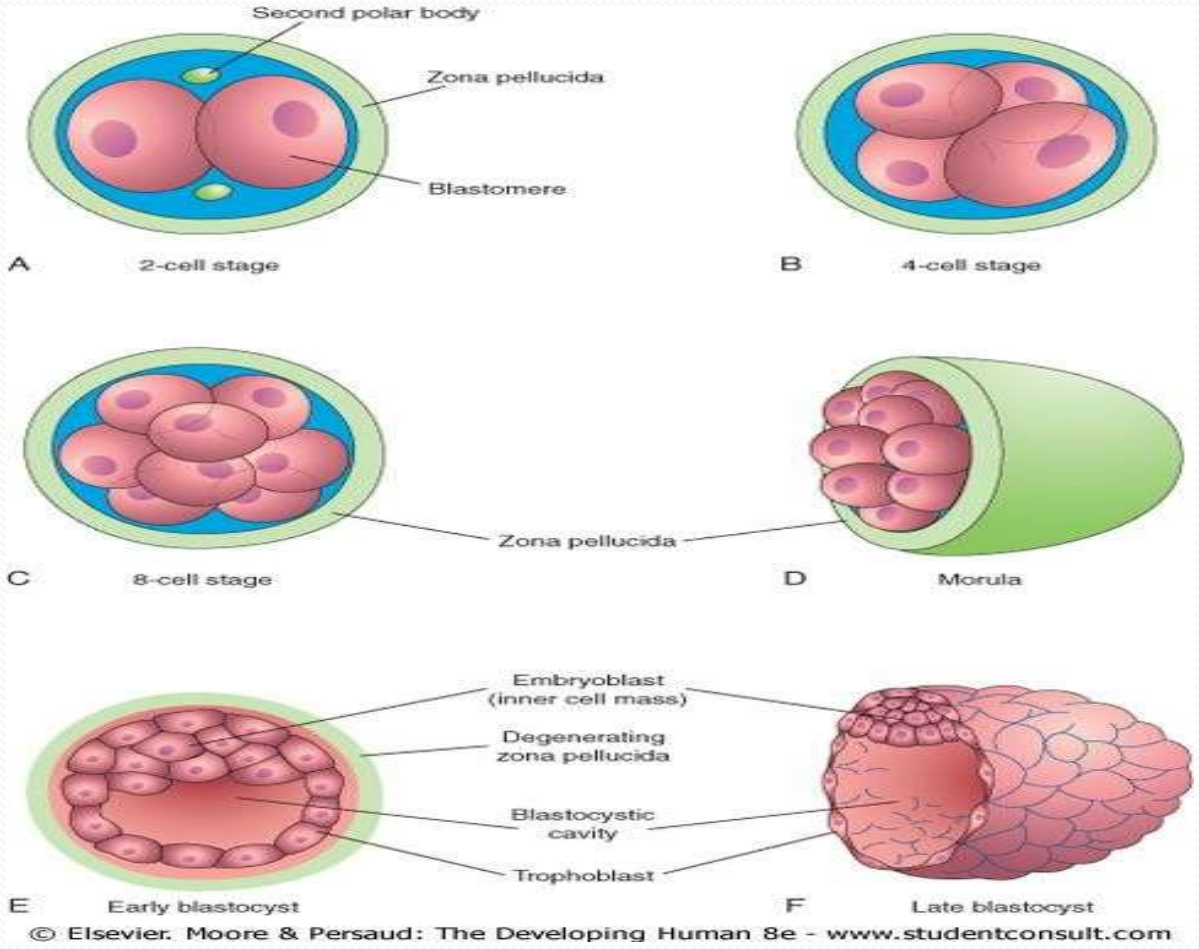
EMBRYOLOGY and oral histology

Senior lecturer
Dr sura talal kadhim
Department of prosthodontics technology

Lab 2

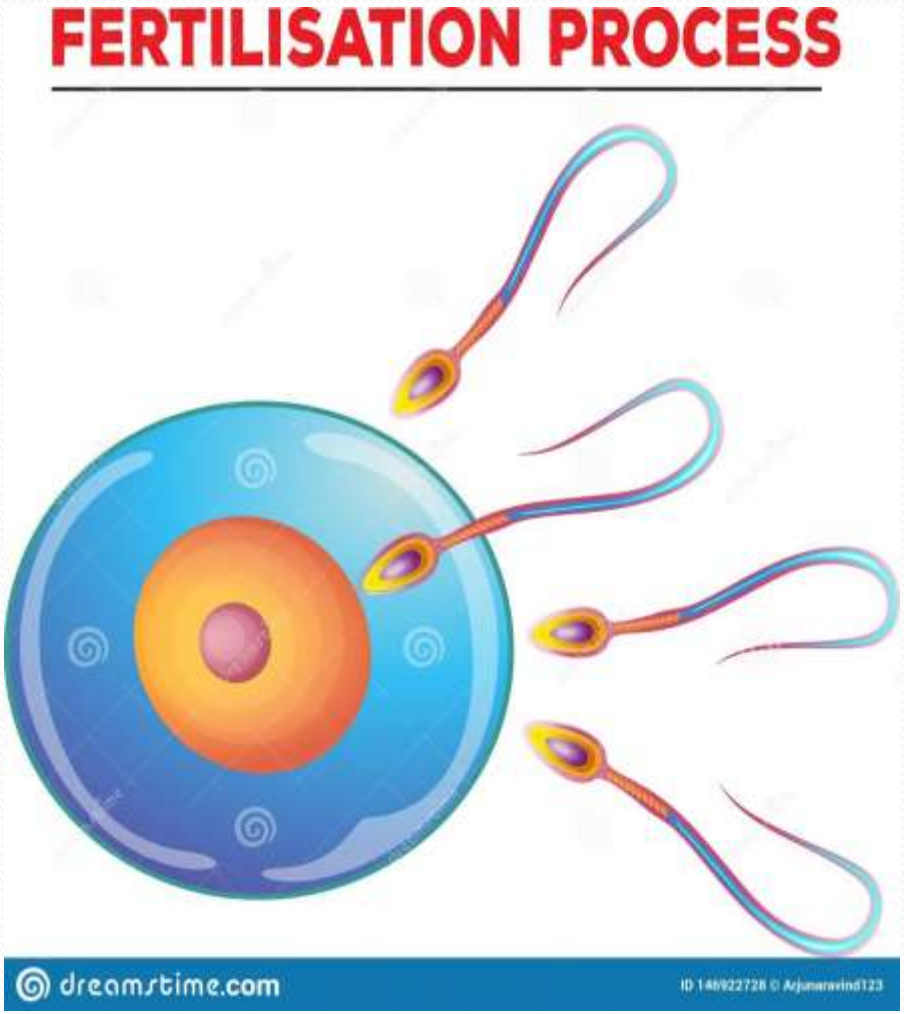

Development of the Embryo: Week 1
Zygote
Morula
Fertilization
Blastocyst

Cleavage of the zygote and formation of the blastocyst

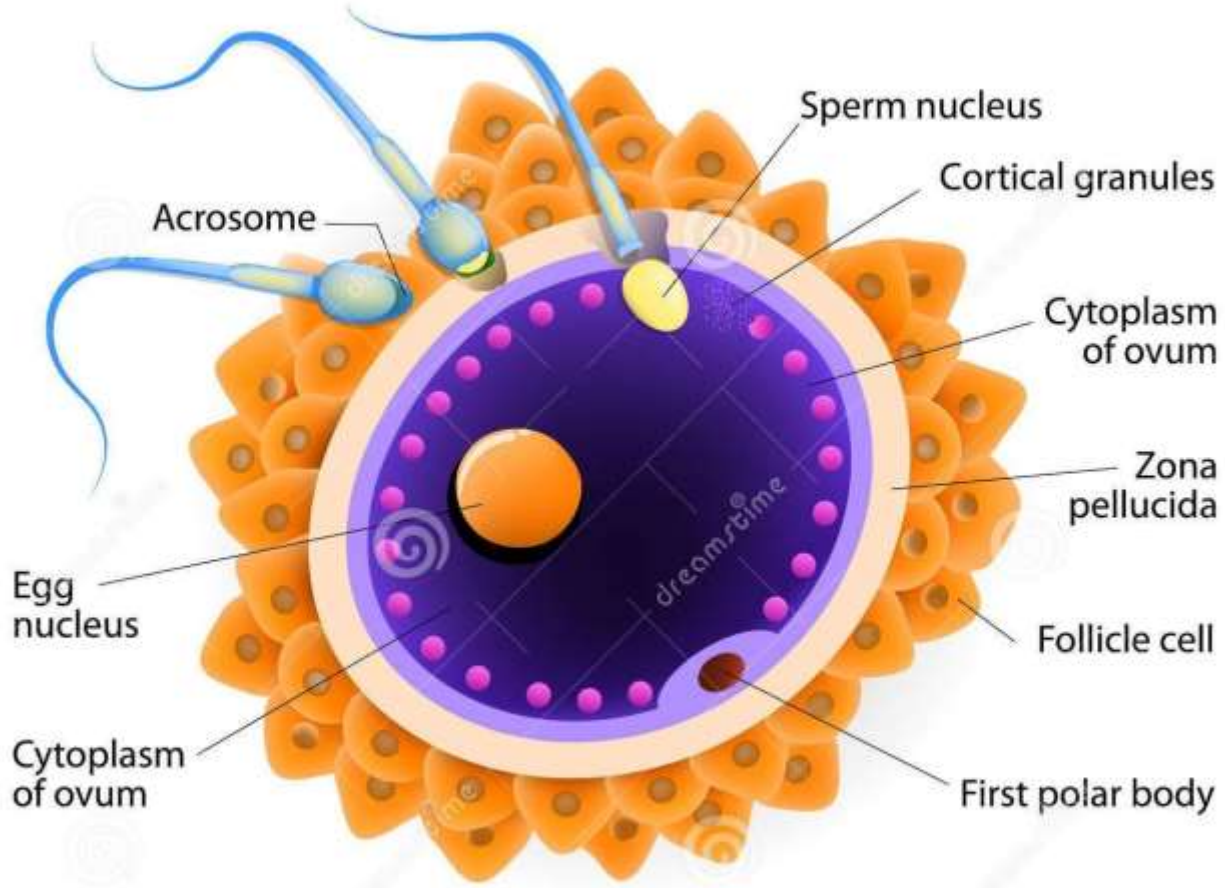


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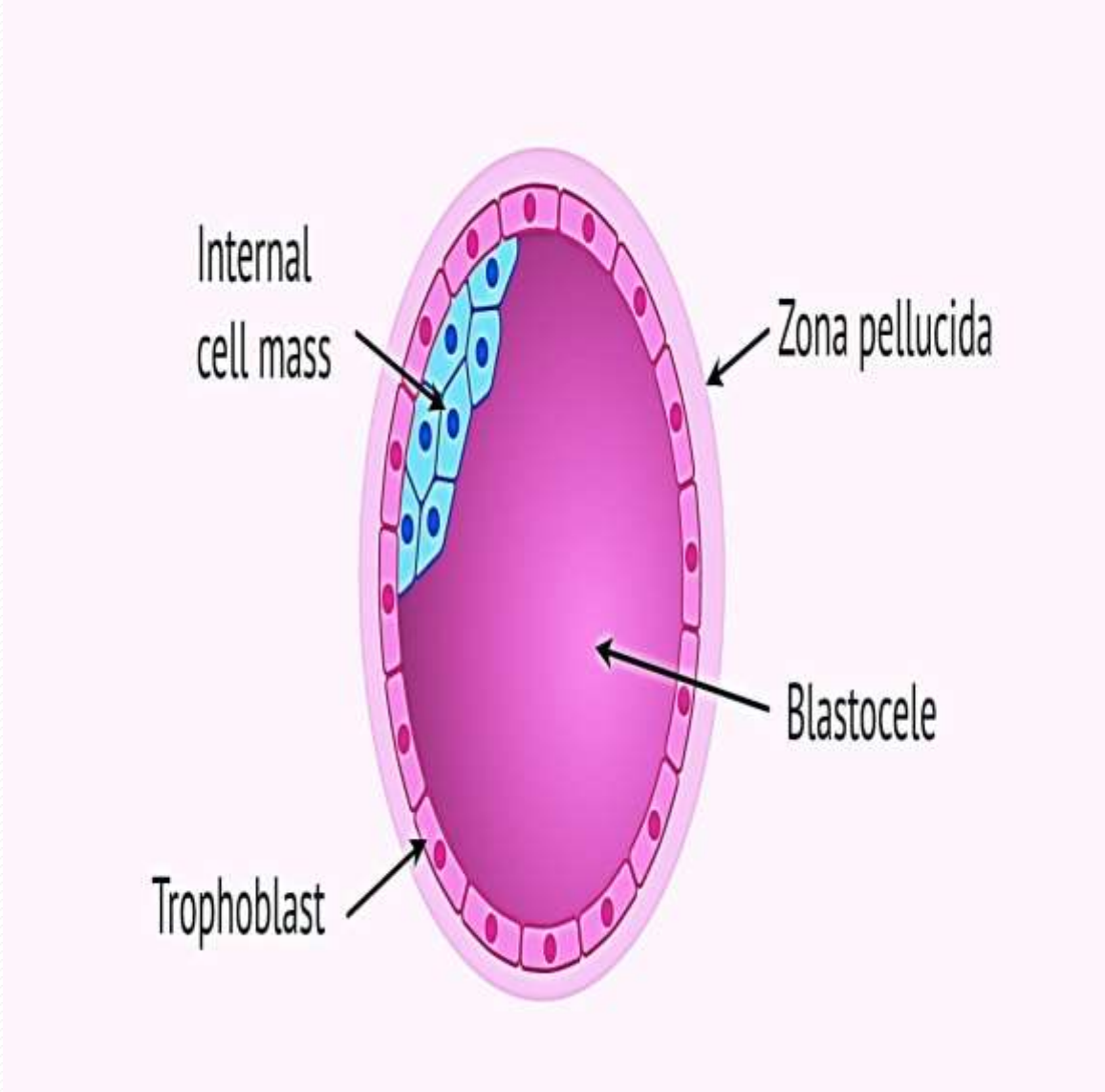
FERTILISATION PROCESS



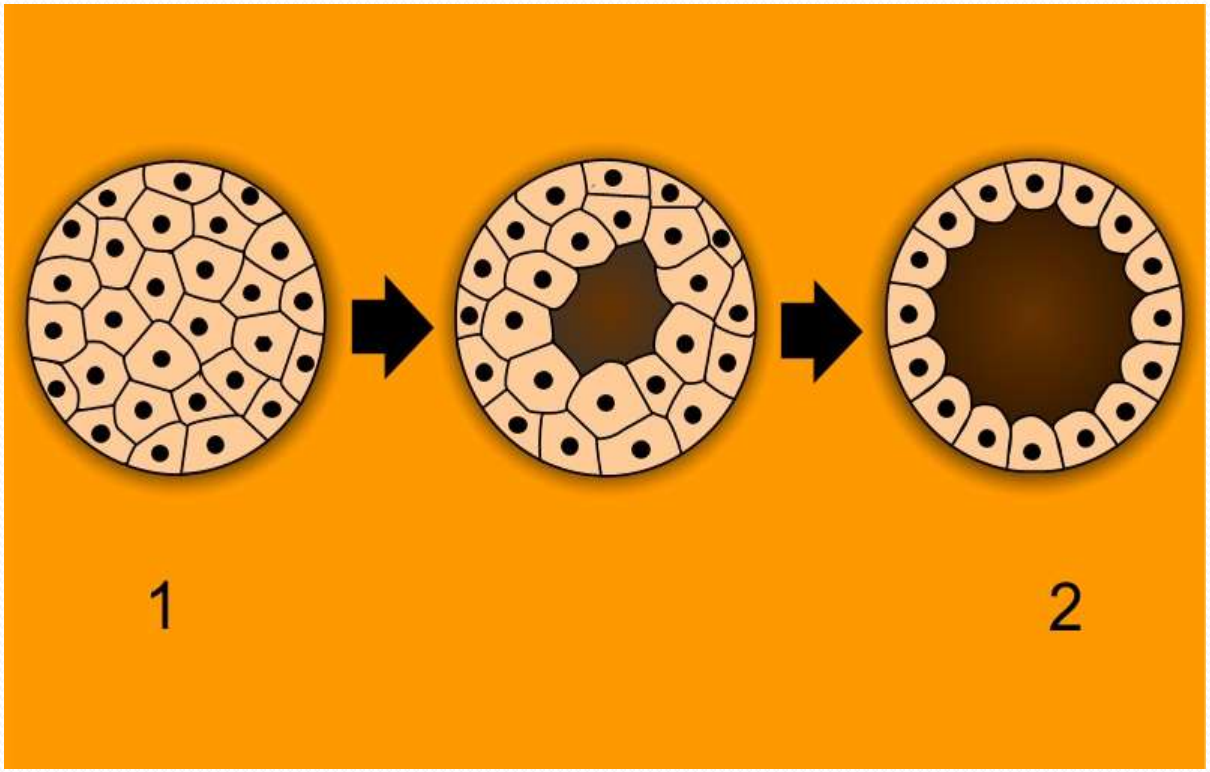
FERTILIZATION



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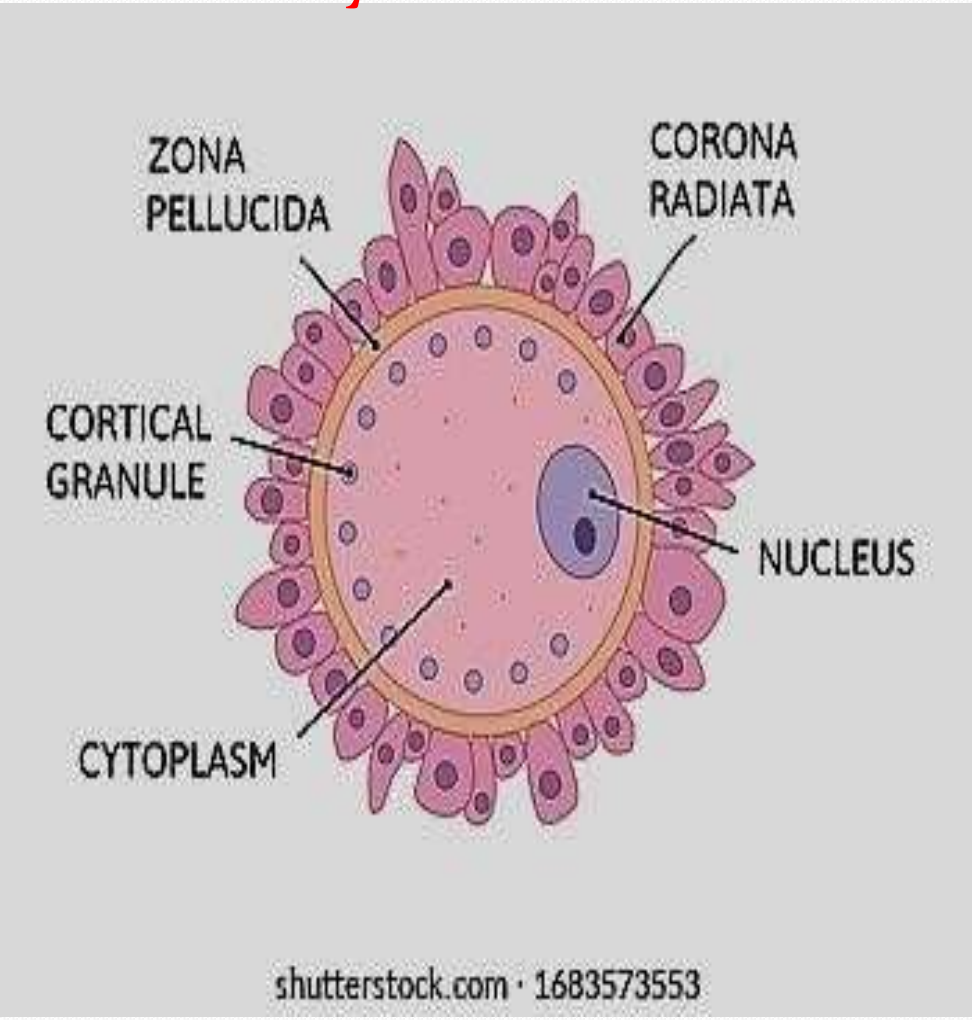

Internal
cell mass
Zona pellucida
Blastocele
Trophoblast

Brastocyst

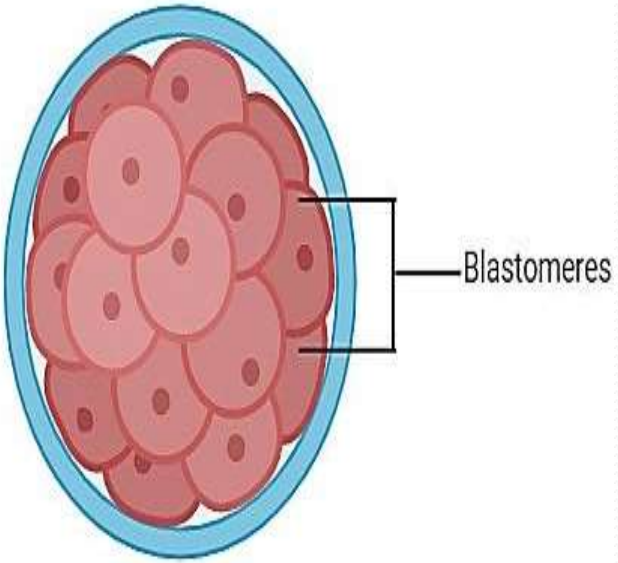


Blastulation

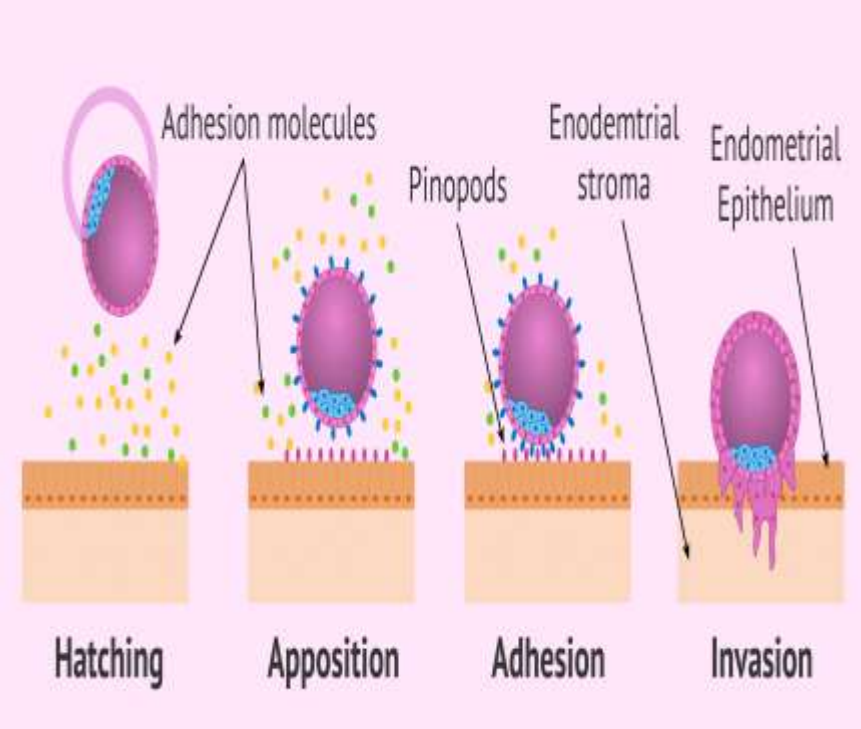
Oocyte


ZONA
PELLUCIDA
CORONA
RADIATA
CORTICAL
GRANULE
NUCLEUS
CYTOPLASM
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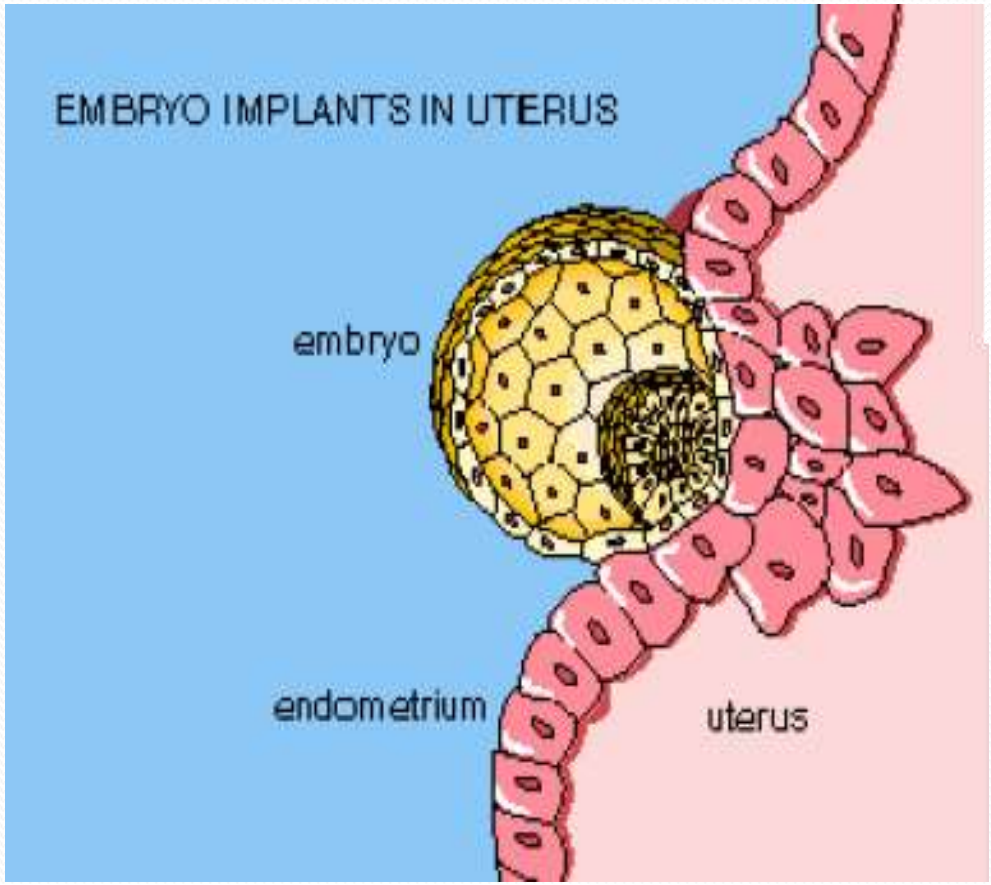


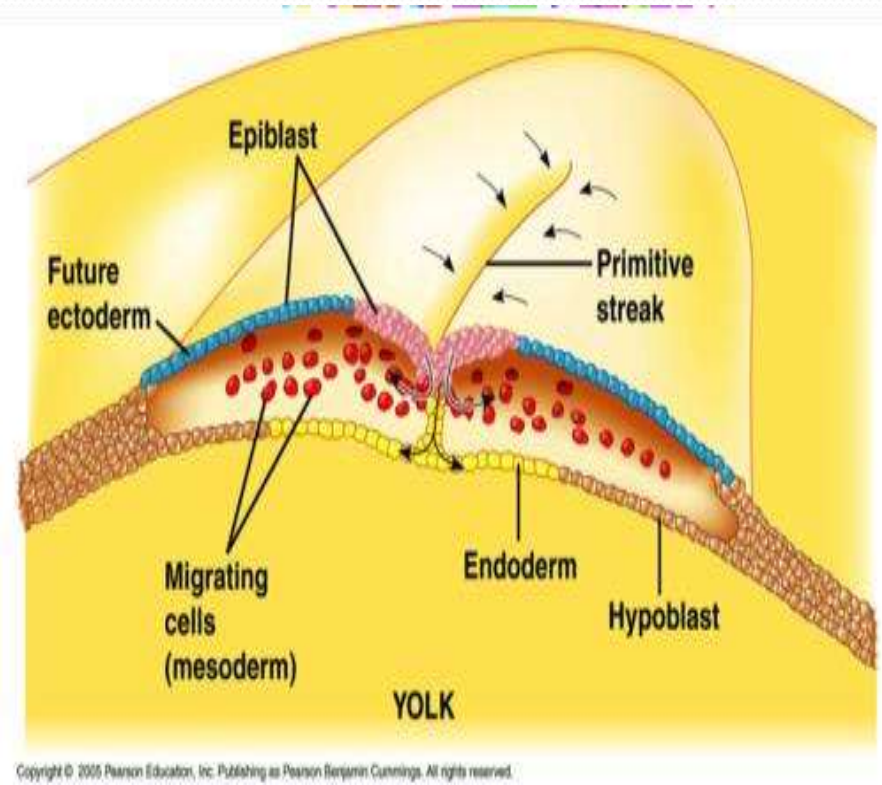


: Morula (16 celled stage)



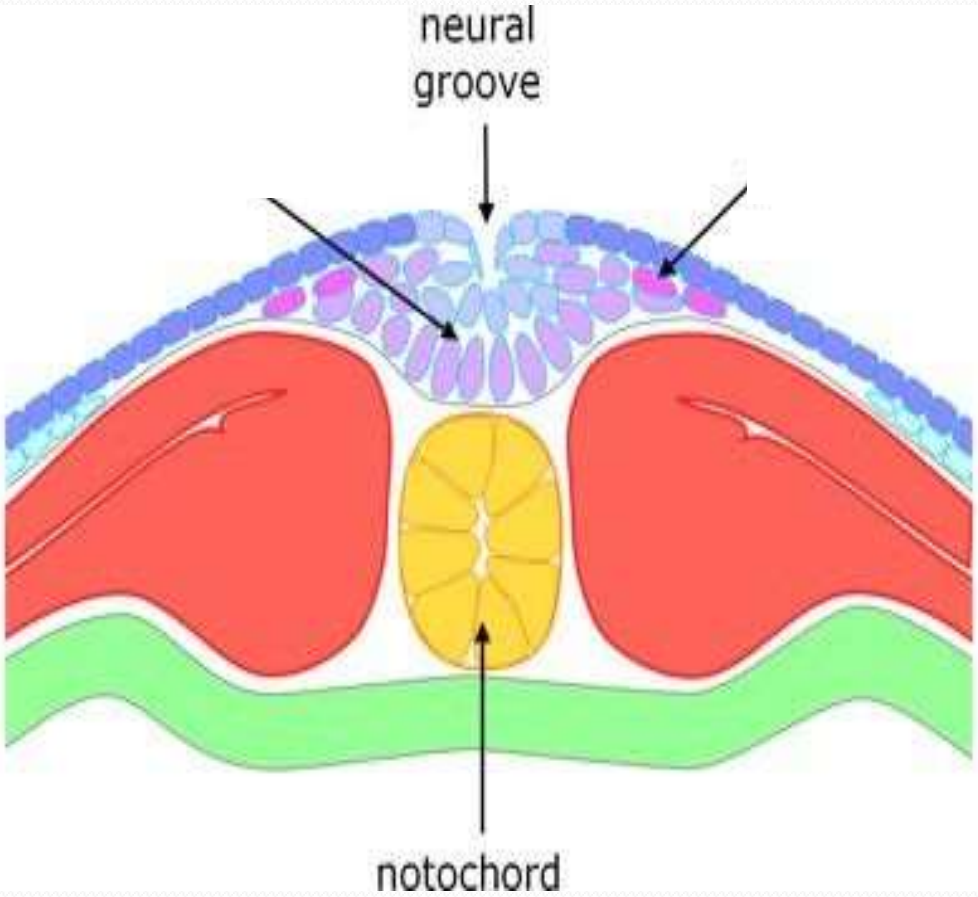
Phases of implantation


EMBRYO IMPLANTS IN UTERUS
embryo
endometrium
uterus

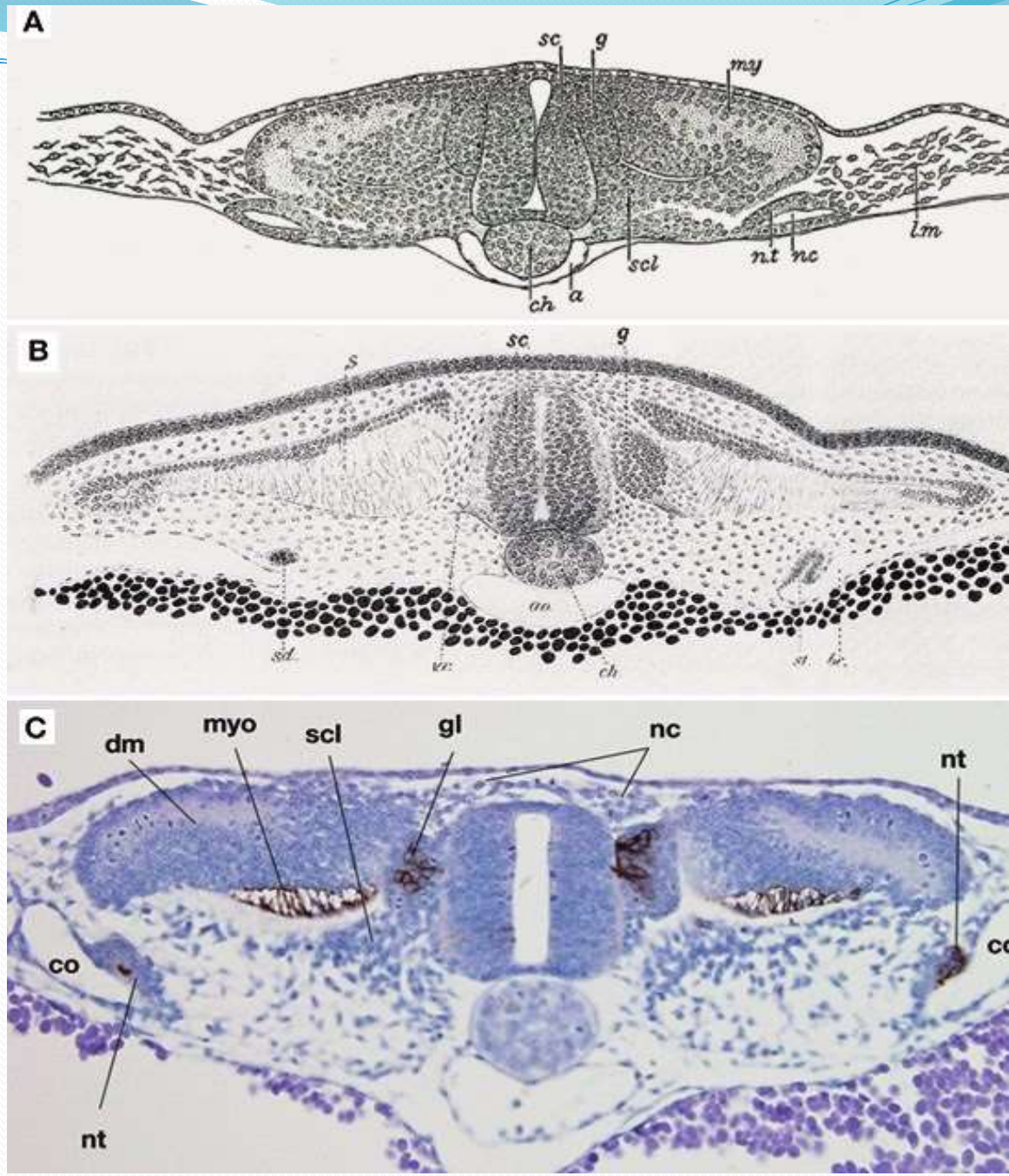


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Development of neural tube

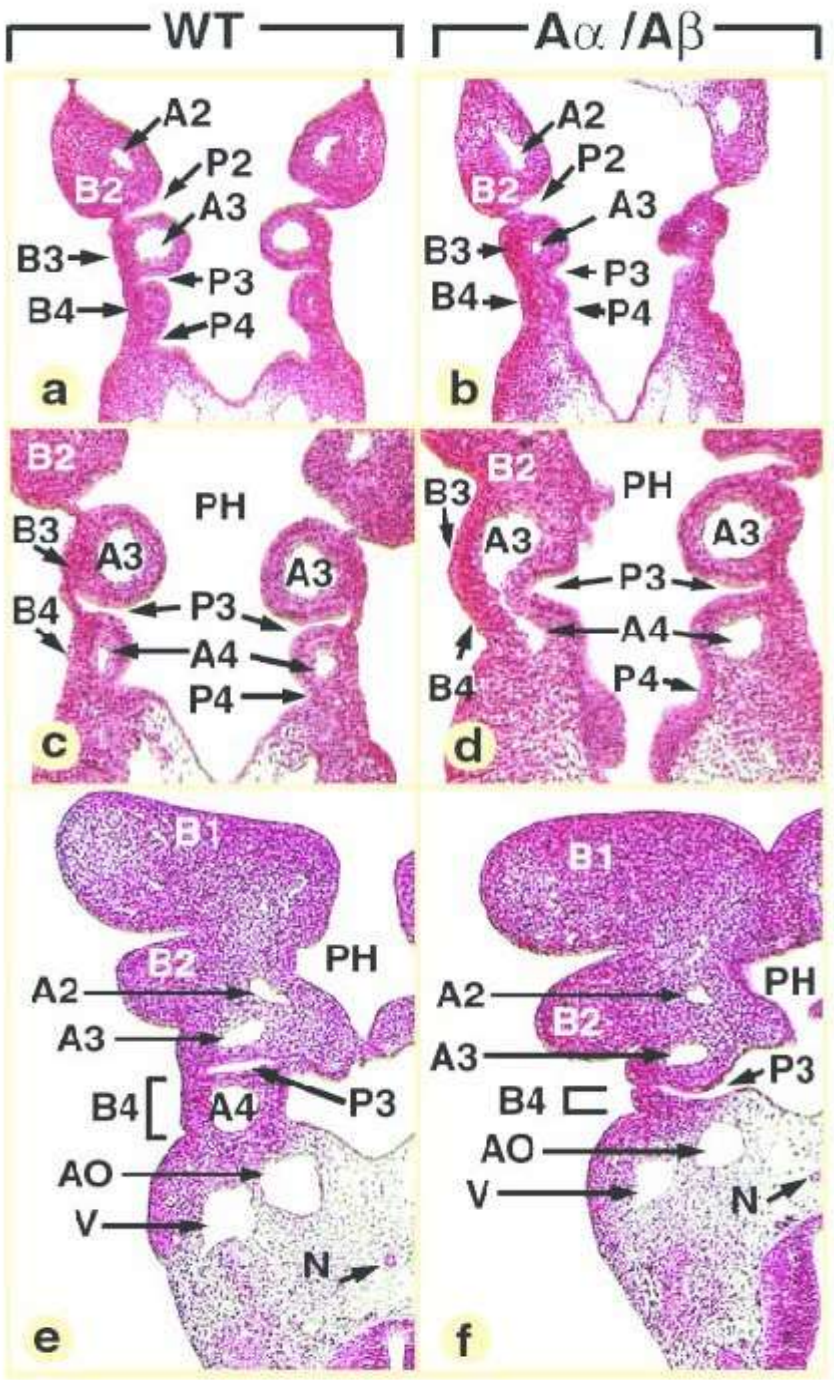

neural
groove
notochord

Development of neural tube

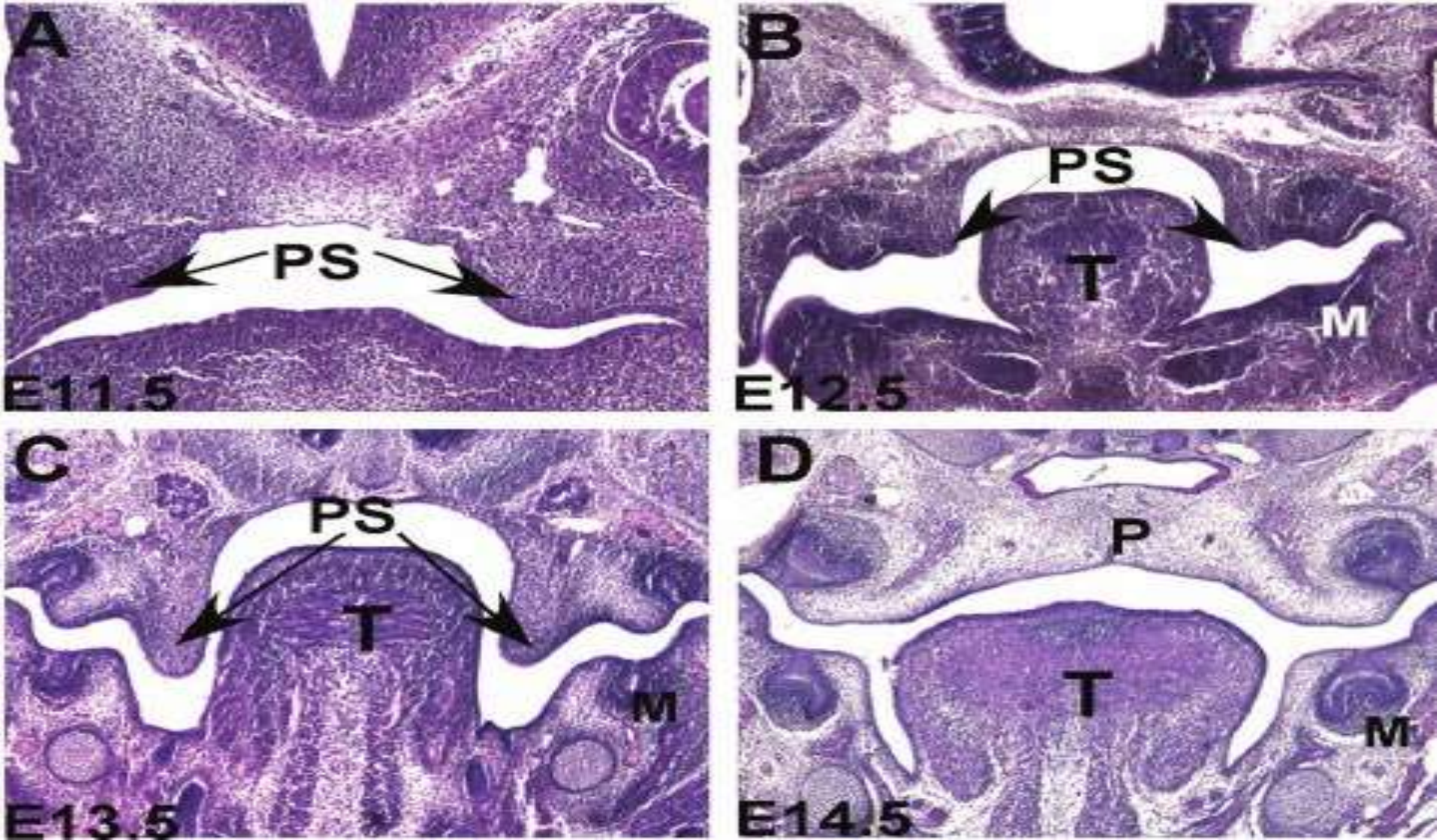


Branchial arches development

B (branchial arch)
A (artery of arch)
P (pouch)
PH (pharynx)
N (notochord)
AO (aorta)
V (vein)

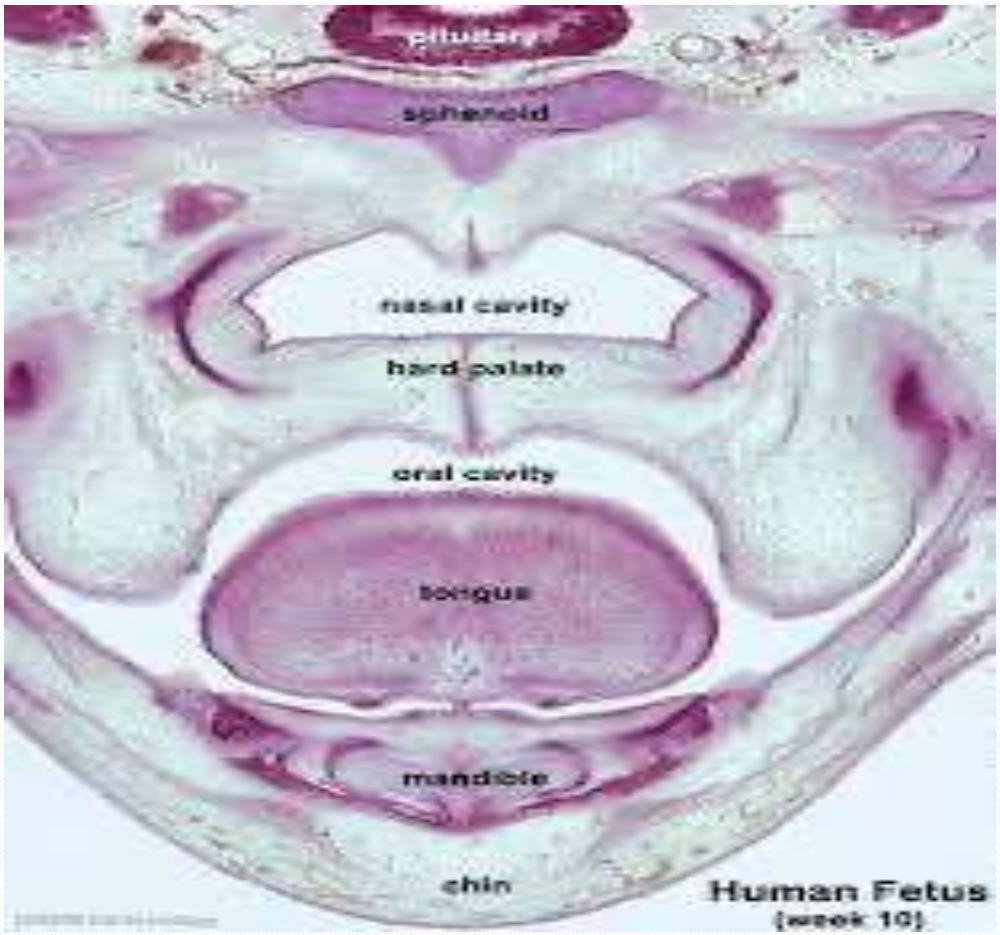


Development of palate



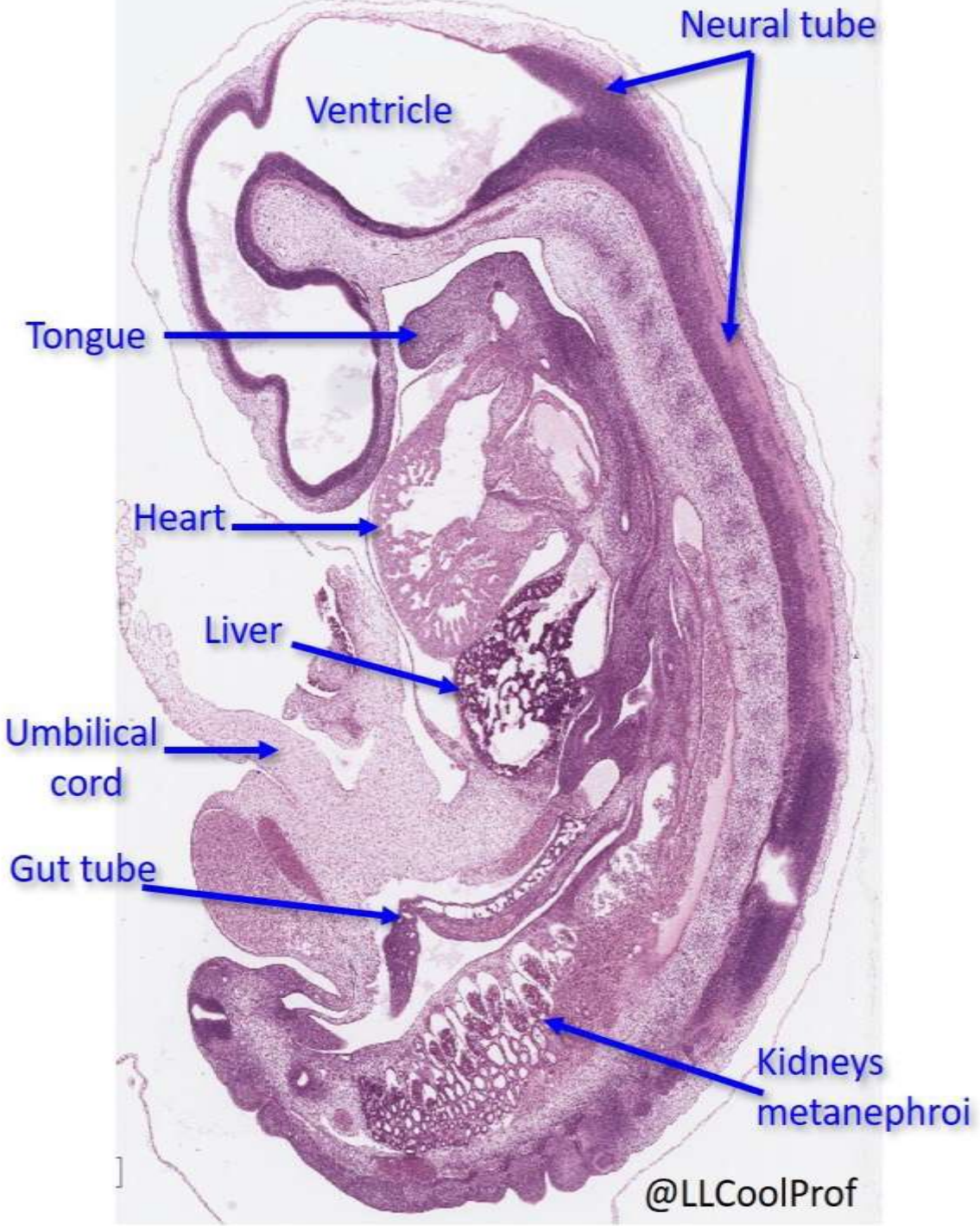
Development of palate

At week 10



Fetal development

At week 10



Thanks