

# Revision Lecture 2

Describe the development of the  
placental villi

**Which of the following statement(s) is correct:**

A: The placenta produces hCG to support the corpus luteum

B: The placenta consist of only maternally-derived tissue

C: The placenta functions as barrier, in metabolism, and in hormone production

D: The placenta consists of only embryonic derived tissue

Which are the 4 (5) major neural crest contributions?

**Which of the following is/are not derived from the neural crest?**

A: Enteric nervous system

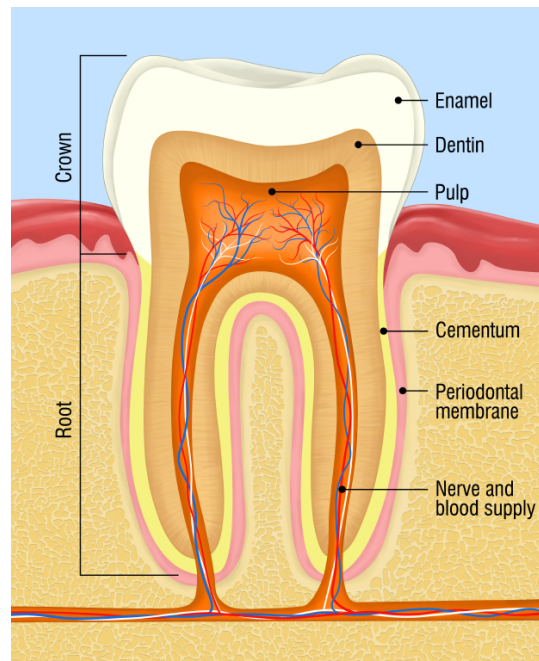
B: Ameloblasts

C: Central nervous system

D: Melanocytes

E: Adrenal medulla

# Describe the development of an odontoblast from the zygote stage onwards



Describe early renal development  
starting from early post-gastrulation

**Which of the following statements is/are correct?**

A: The pronephros acts as the embryonic kidney

B: The adult kidney develops largely from the metanephros

C: The mesonephros contributes to the development of the adult kidney

D: The ureteric bud sprouts from the paramesonephric duct

E: The urogenital sinus has an ectodermal lining



Describe the bipotential gonad cells

**Which of the following statements is/are correct?**

A: SRY is the female sex determining gene, located on the X chromosome

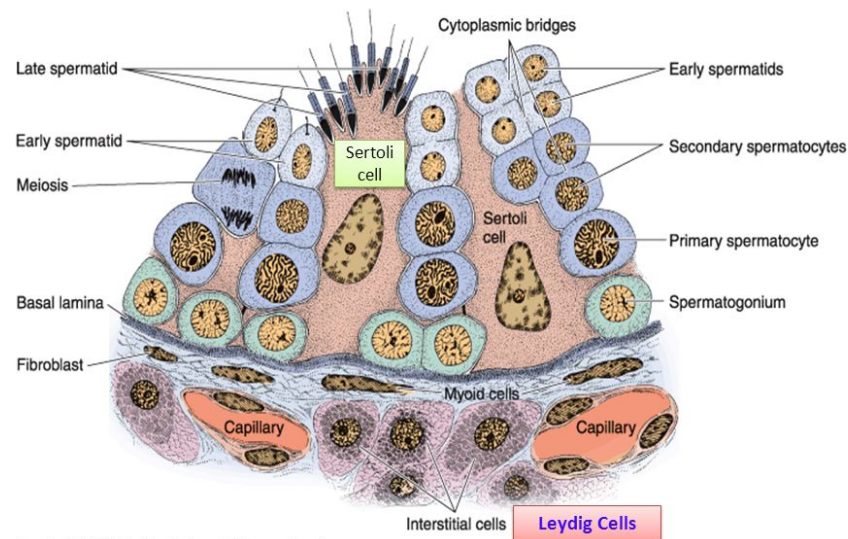
B: SRY activates expression of SOX9, which is a male sex determining gene

C: SOX9 activates AMH production, which results in regression of the mesonephric duct

D: Fetal Leydig cells produce testosterone, which is important for development of the Wolffian duct

E: Theca cells are the supporting cells of the ovary

# Describe the development of a Sertoli cell from the zygote stage onwards

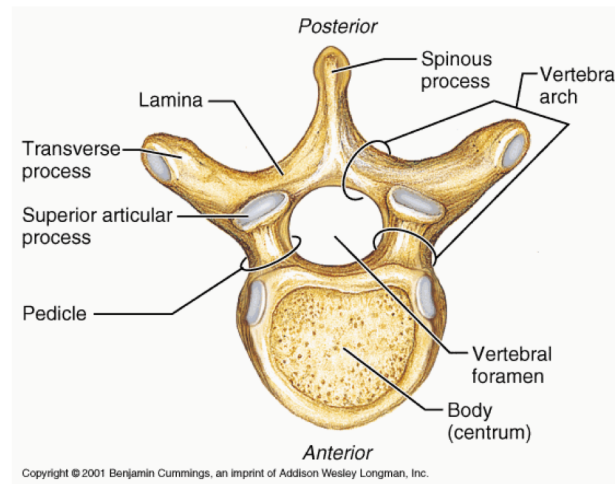


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Describe the development of the  
pituitary

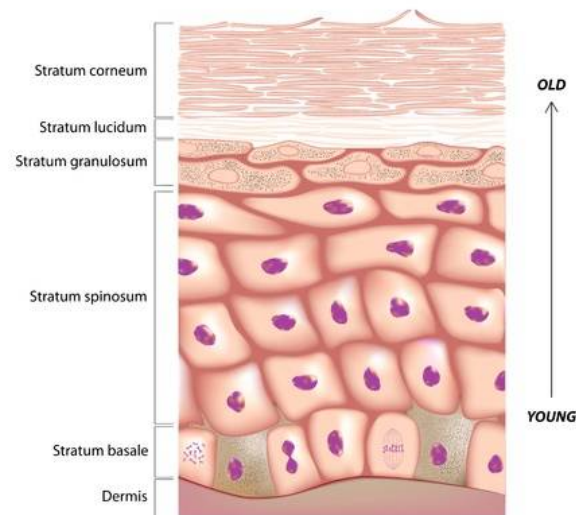
Discuss the types of ossification, and explain the differences

# Describe the development of an vertebral chondroblast from the zygote stage onwards



Describe the process of epidermal  
appendage development

# Describe the development of a keratinocyte from the zygote stage onwards





# Describe the development of an ameloblast from the zygote stage onwards

