

LECTURE 3

PRENATAL DEVELOPMENT:

GERMINAL STAGE (week 0-2)

EMBRYONIC STAGE (week 3-8)

FETAL STAGE (week 9- birth)

4 PROCESSES OF DEVELOPMENT:

1. CELL DIVISION- each cell always contains full and identical complement of genetic material
2. CELL MIGRATION- new cells move to different locations of embryo
3. CELL DIFFERENTIATION- stem cells begin to specialise
4. APOPTOSIS- programmed cell death.



GERMINAL STAGE Week0-2:

Zygote (germinal) rapid cell division, each containing the same genetic material. Also known as a blastocyst. Travels down the fallopian tube before being embedded in the uterus wall. After 2 weeks the embryonic stage begins.

EMBRYONIC STAGE Week3-8:

structures are distinct and now recognisable as a human baby
huge increase in size during this stage, very rapid

inner mass differentiates into 3 layers;

- endoderm –inner organs like lungs & liver;
- mesoderm – muscles & skeleton;
- ectoderm – nervous system(neural tube), skin

the support system begins to develop:

- umbilical cord
- placenta
- amniotic sac

Especially rapid development and differentiation - embryo is vulnerable to environmental factors

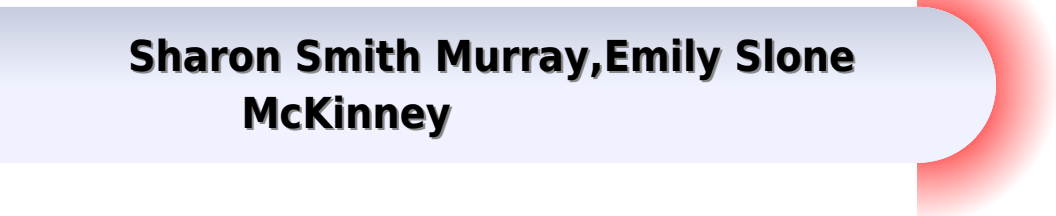
4th week sees the head develop and buds that form the arms and legs appear

- Cephalocaudal(development from head down)
- Proximal-distal (development from inner core out)
- Most spontaneous abortions occur at this stage

FETAL STAGE (week 9-birth)

Prenatal Development Study Guide Answers

**Sharon Smith Murray, Emily Slone
McKinney**



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