

Prenatal development



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Stage 1, Germinal Period 8-10 days, zygote, fertilization, and implantation, amnion forms, placenta forms amnion a thing, tough, transparent membrane that holds the amniotic fluid, and surrounds the embryo

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Now placenta an organ that is made up of tissue from both the mother and the fetus that serves as a barrier and a filter between their bloodstream, umbilical chord is attached umbilical chord a flexible helical structure containing blood vessels that connects the developing organism to the placenta

Plasticity vs Specialization totipotent cells-any cell can become anything (stem cells), specialization multipotent cells- the cell transforms to the surrounding cells

Stage 2, Embryonic Period 2-8 weeks, embryo, forming major systems, a sensitive period (harmful to environmental factors), neural tube at 26 days (spine + brain become nervous system), 6 weeks arm buds and eyes form, takes cephalocaudal trend cephalocaudal trend from head to tail growth

Stage 3, Fetal stage 9th week till birth, fetus, all basic tissues are formed, fetus grows rapidly in size, age of viability

Teratogens abnormalities from environmental factors that harm the normal development of the baby determined by dose, heredity, sum total, and timing.

caffeine (in large doses) spontaneous abortion, low birth weight (messes with placenta and nutrient flow)

tobacco Deprives fetus of oxygen and nutrition, low birth weight, associated with SIDS (sudden infant death syndrome w/in 1st 3 months)

alcohol 3 drinks or more on a single occasion, affects physical and mental development, FAS (fetal alcohol syndrome): mentally retarded, poor motor/attention/memory, language deficits, overactivity, slow physical growth.

viable at 7 months or 28 weeks, to live outside the womb, digestive and respiratory systems working, born 1.5 lbs able to survive

Prenatal learning

<https://assignbuster.com/prenatal-development/>

(hearing) Salk: study of newborns, heart beating, and weight gain,
found: infants react positively to stimuli similar to those in prenatal
stages prenatal learning DeCasper & Spence Mothers read a story during
pregnancy to

fetus, tested newborns 2/3 days old, read old and new story, preferred old
story, and sucking rate went with diction of words