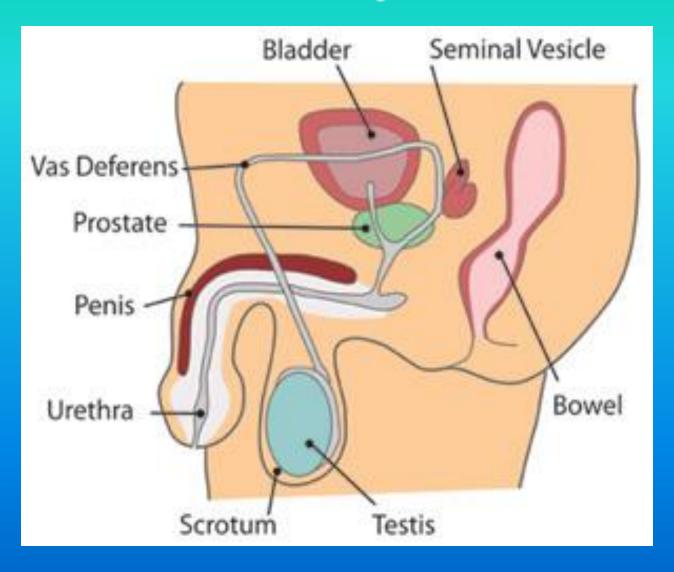
Pregnancy and Birth

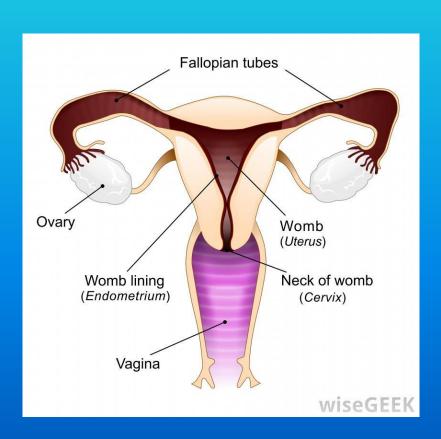


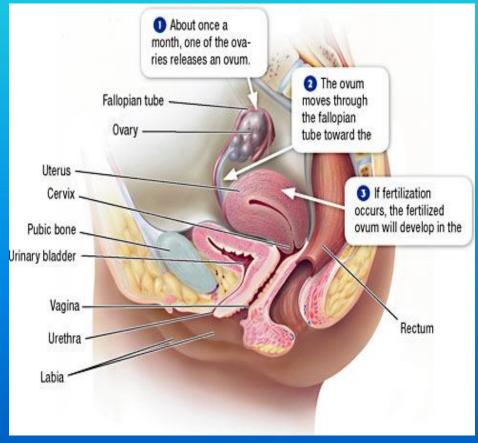


Male Anatomy



Female Reproductory



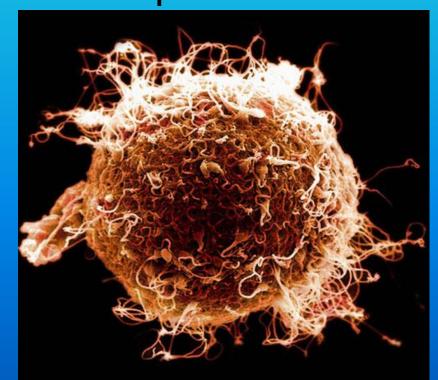


Reproductive Cells

Male= sperm produced in the testes

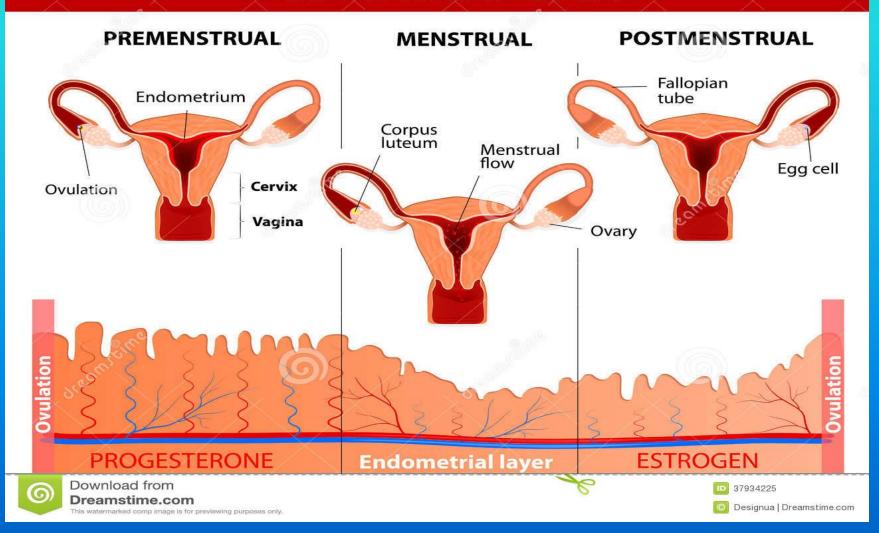
Female= egg or ovum produced in the

ovaries



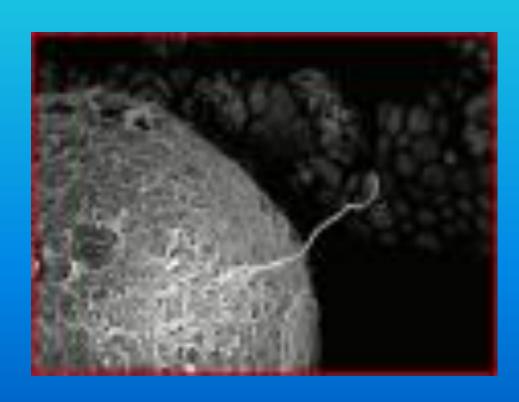
Menstrual Cycle

MENSTRUAL CYCLE



Conception

- The joining of the egg and the sperm
- This is when hereditary traits are determined
- This is also referred to as 'fertilization'



Sex Determination

- Determined at the moment of conception
 - female= X male= X or Y

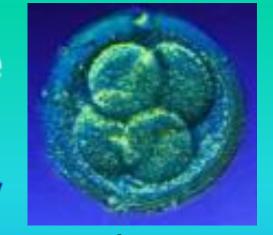
$$XX = girl$$

Who determines the sex of the baby?



Zygote

- starts with conception
- first 2 weeks of pregnancy

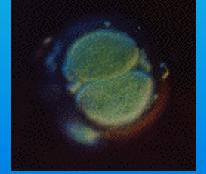


 This is formed when the egg and sperm unite and begin to develop

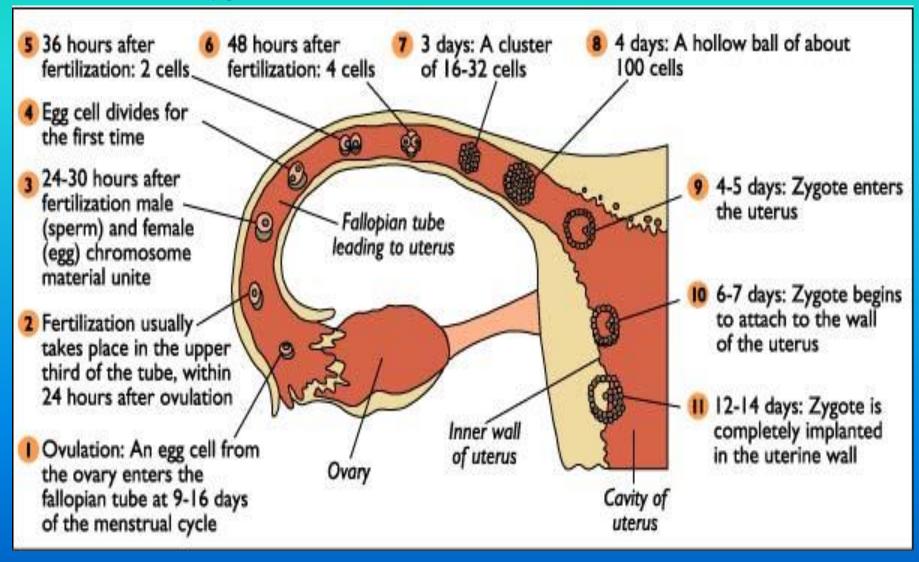
AMNION: fluid filled sac that surrounds

the baby in the uterus

 Yolk Sac – provides nutrients before the placenta takes over



Period of the Zygote



PRENATAL

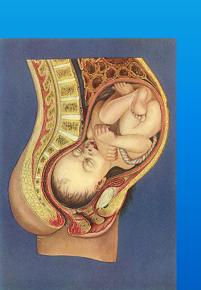
280

"pre"= before "natal" = of or relating to birth



40 weeks

development of a baby during the period before birth



Each Person:

Has 46

chromosomes:

23 from MOM

23 from DAD



Changes for Mom...

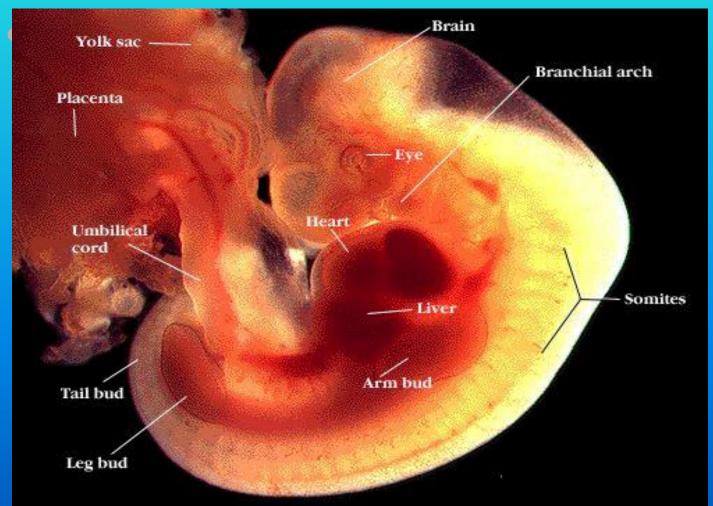
- Doctor visit to check progress
- Morning sickness, breast tenderness, increased urination, and fatigue are very common in early pregnancy
- The wife needs more sleep, healthy diet, less negative stress, regular exercise, no heavy lifting, only specific medicines from doctor.
- The husband needs to help the wife is all ways possible.(house chores etc.)

First Trimester

- Early pregnancy (Weeks 1-13)
- Most critical stage because all major organs begin to form
- Baby now receives good and/or harmful substance from the mother (through the umbilical cord)
- The heartbeat can usually be seen around
 6 weeks via ultrasound, and heard around
 9 weeks via doppler

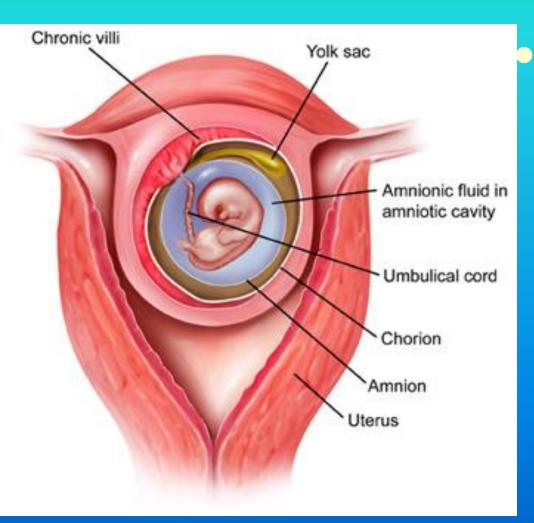
First Month

- Placenta: organ filled with blood vessels that nourishes the baby in the uterus
- Umbilical Cord: connects the baby to the placenta





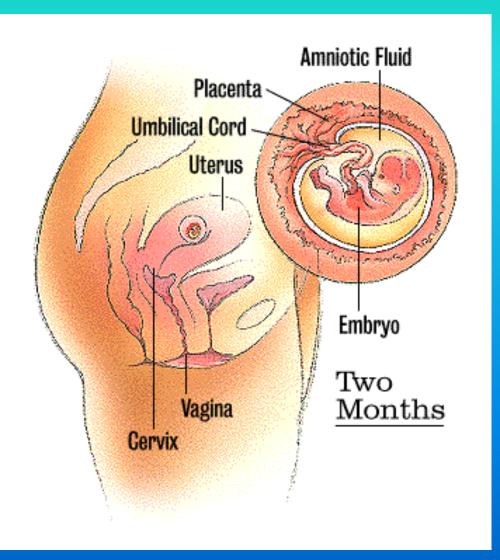
Weeks 5-8



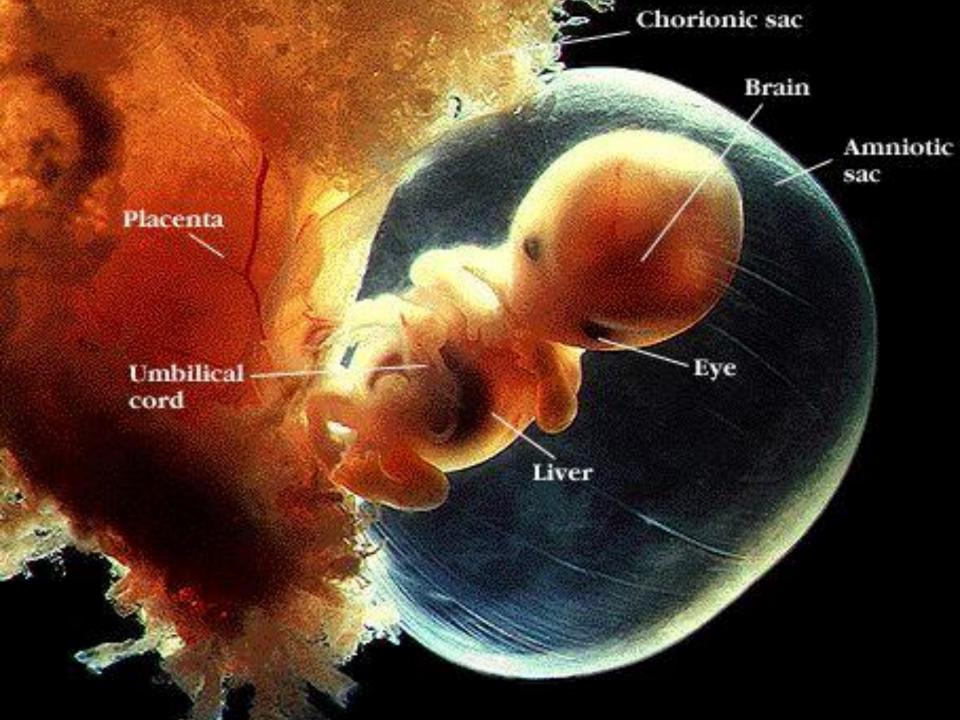
By the end of the first month, the embryo is about 1/10 of an inch long. The heart, which is no larger than a poppy seed, has begun beating.



Weeks 9-12



The embryo is about ¼ inch long and has distinct, slightly webbed fingers.
Veins are clearly visible. The heart has divided into right and left chambers.



Second Trimester

- Starts at the 13th week and ends at week 27 of pregnancy
- Bone cells replace cartilage
- All parts of the body mature
- Overall size quickly increases

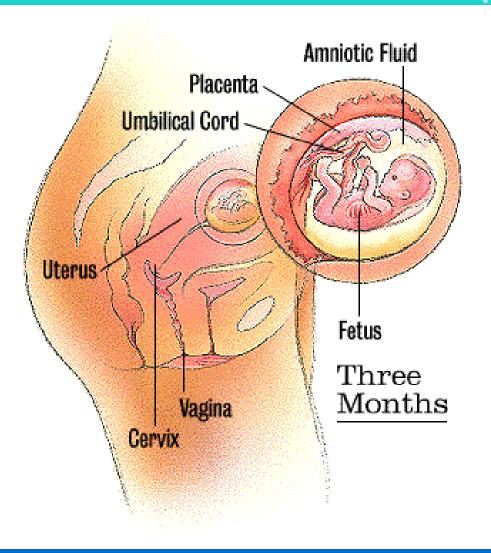


Second Trimester

Highlights of this stage...

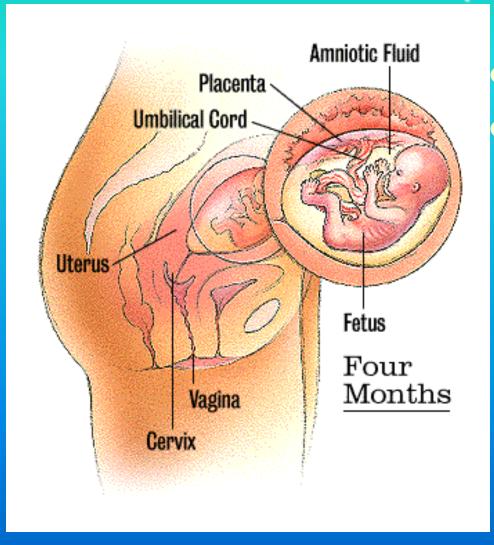
- Quickening occurs: mother feels the baby move for the first time (4th or 5th month or 16 to 20 weeks)
- Referred to as the "best" time in pregnancy for mom
- The gender can be detected around week
 20
- Baby begins to hear

Three Months (Weeks 13-16)

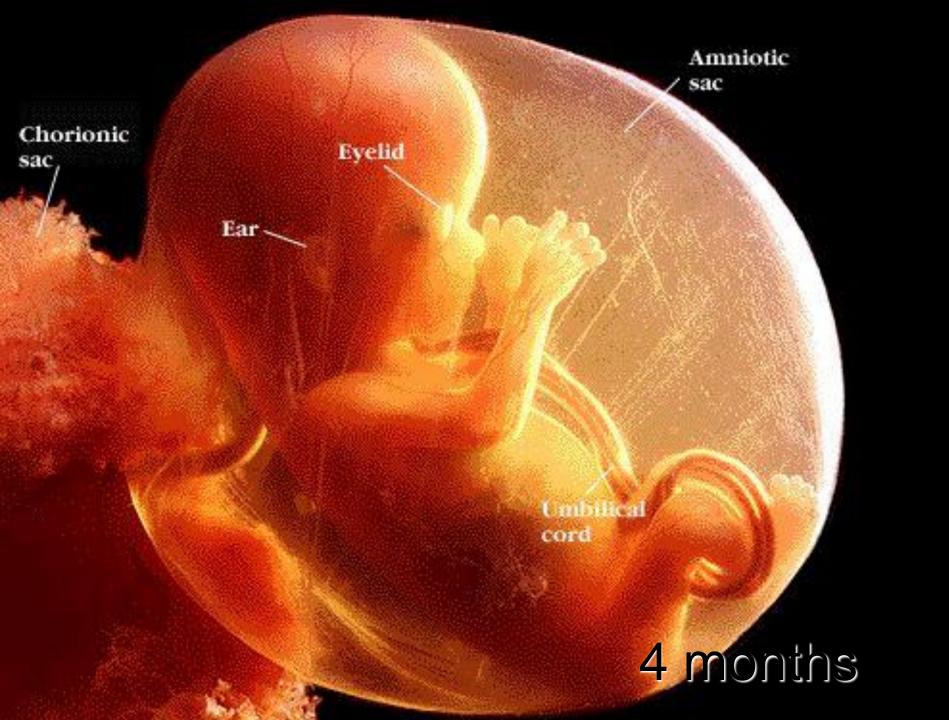


By now the fetus is 1
 inch long and is fully
 formed. He/she has
 begun swallowing and
 kicking. All organs and
 muscles have formed
 and are beginning to
 function.

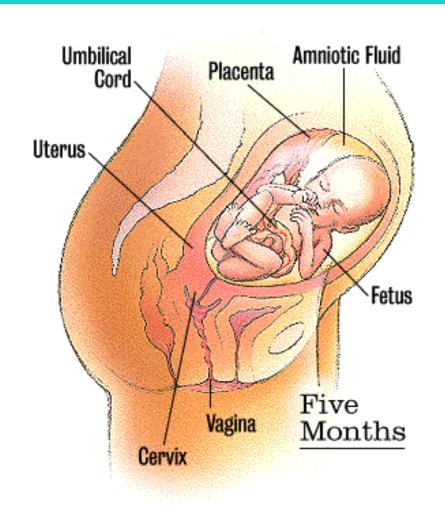
Four Months (Weeks 17-20)



- 3" long
- The baby is covered with a layer of thick, downy hair called lanugo. His/her heartbeat can be heard clearly. This is when the mom may feel his/her baby's first kick.



Five Months (Weeks 21-24)



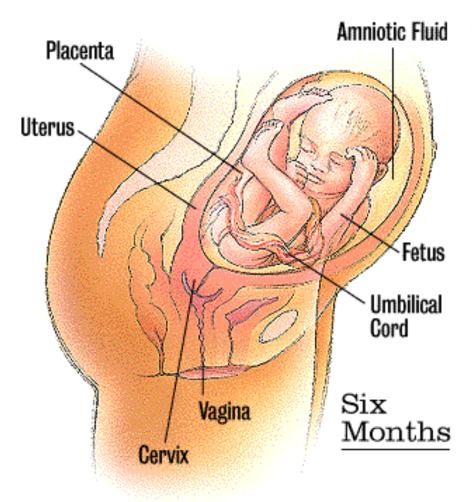
A protective coating called vernix begins to form on baby's skin. By the end of this month, the baby will be about 7 inches long and weigh around ½ lb.



My name is Michael Clancy and I am the photojournalist that photographed Samuel Armas reaching from his mother's womb and reacting to the touch of his surgeon at twenty-one weeks in utero during a spina bifida corrective procedure in 1999."

"Out of the corner of my eye I saw the uterus shake, but no one's hands were near it. It was shaking from within. Suddenly, an entire arm thrust out of the opening, then pulled back until just a little hand was showing. The doctor reached over and lifted the hand, which reacted and squeezed the doctor's finger. As if testing for strength, the doctor shook the tiny fist. Samuel held firm. I took the picture! Wow! It happened so fast that the nurse standing next to me asked, "What happened?" "The child reached out," I said. "Oh. They do that all the time," she responded."

Six Months (Weeks 25-28)



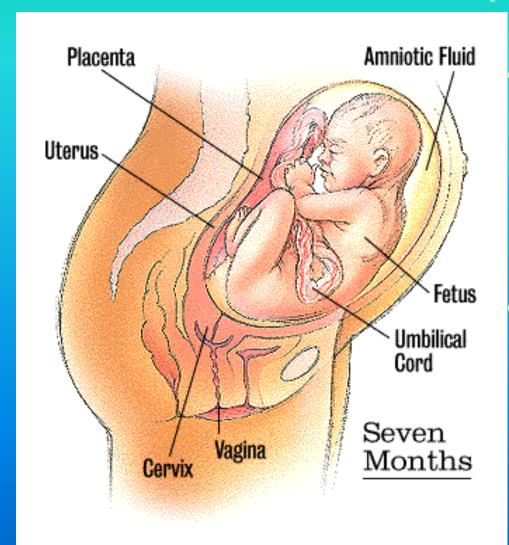
Eyebrows and eyelids are visible. The baby's lungs are filled with amniotic fluid, and he/she has started breathing motions. If someone would talk or sing, he/she can hear you.



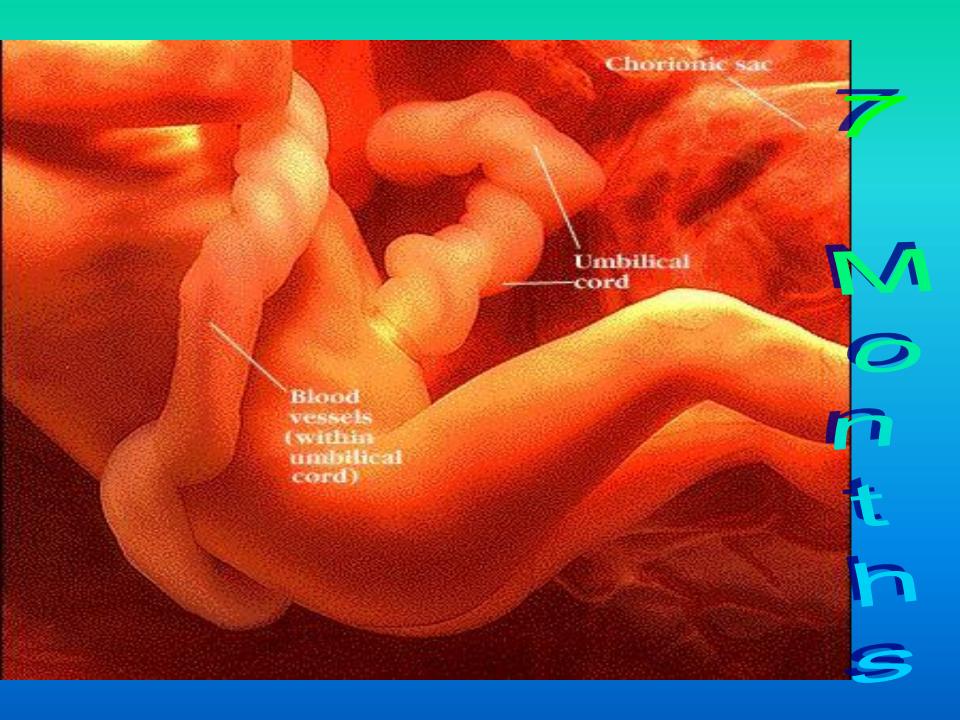
Third Trimester

- Starts at 27 weeks and ends at birth (40 weeks is standard)
- Age of viability: most babies could survive if they were born (around 28 Weeks)
- Baby is fully developed, and just needs to grow and mature in order to be ready for its big debut
- During the 9th month, the placenta provides antibodies to help protect the baby and the lungs are now mature

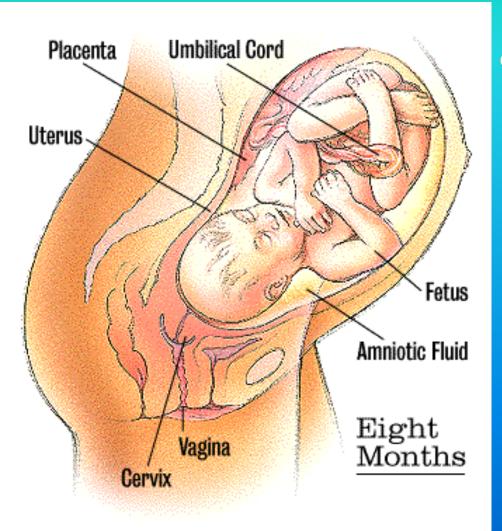
Seven Months (Weeks 29-32)



- By the end of the seventh month, the body is well-formed.
 Fingernails cover the fingertips
- Mother may feel
 Braxton-Hicks
 contractions during
 this month

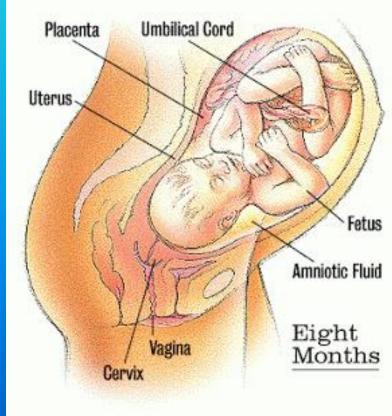


Eight Months (Weeks 33-36)



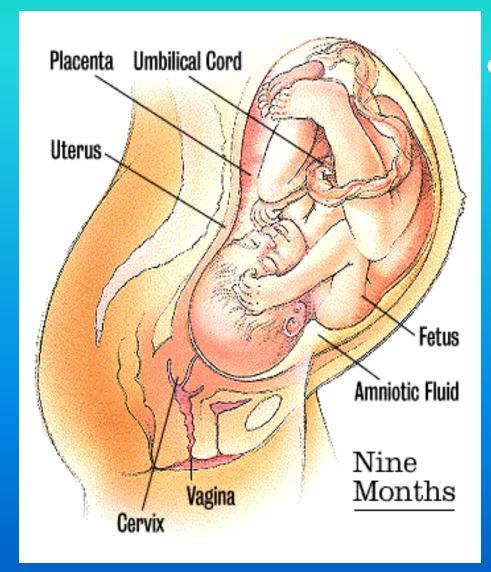
The baby is gaining about half a pound per week, and layers of fat are piling on. He/She has probably turned head-down in preparation for birth. He weighs around 3 – 4 pounds.

8 months



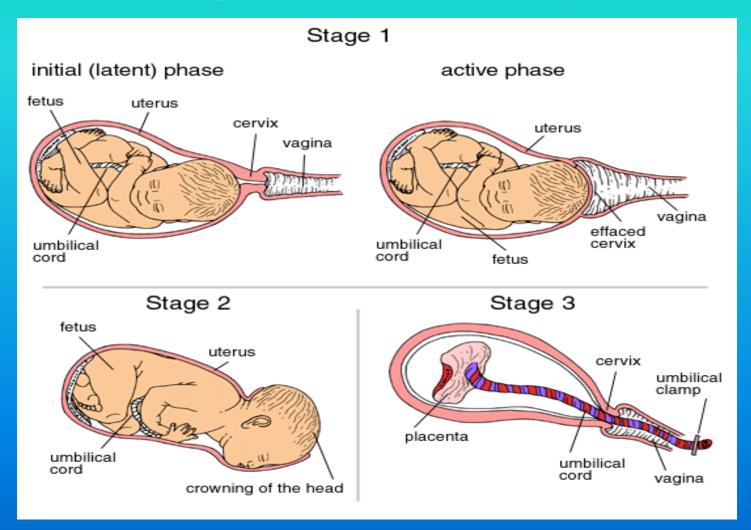


Nine Months (Weeks 37-40)



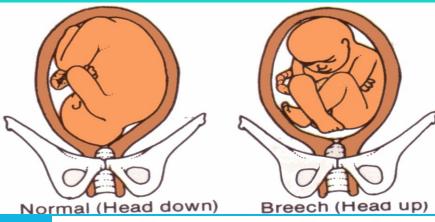
 The baby gains more weight this month and usually weighs between 7-9 lbs. and is 19 - 22 inches when he/she is born. As he/she becomes more crowded, the mom may feel him/her move around less.

Stages of Delivery



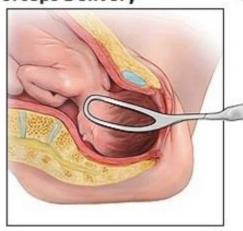
Difficulties of Delivery

BreechC-section

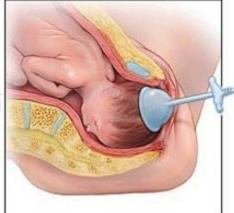




Forceps Delivery







Parenting Requires Emotional Maturity

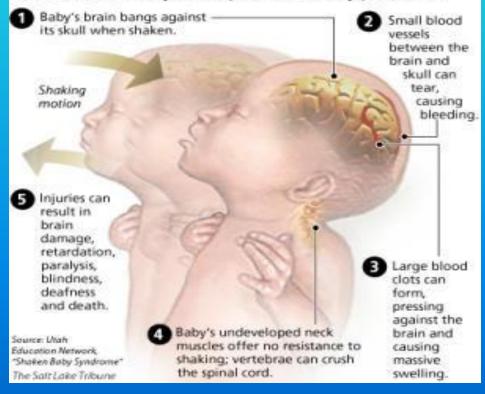
 An emotionally mature parent does not take their anger out on their child.



Shaken Baby Syndrome

Damage caused when a baby is shaken

Babies are especially susceptible to injury when they are shaken because their connecting tissues and bone structure have not sufficiently developed to offer any protection.



Average Cost of Raising a Child

- The average cost of raising a child born in 2013 up until age 18 for a middle-income family in the U.S. is approximately \$245,340 (or \$304,480, adjusted for projected inflation), according to the latest annual "Cost of Raising A Child" report from the U.S. Department of Agriculture. The estimate is 1.8 percent higher than the previous year.
- That equates to roughly \$12,800 \$14,970 per child per year for a two-parent family with a median annual income between \$61,530 and \$106,540. The annual cost can vary based on factors like the child's age, the number of children in the family and the family's income and location.
- The overall cost is a good deal higher than figures estimated in 1960 by the USDA's first "Cost of Raising A Child" report. Back then, "a middle-income family could have expected to spend \$25,230 (\$198,560 in 2013 dollars) to raise a child until the age of 18," according to the new report, which also notes that "health care expenses for a child have doubled as a percentage of total child-rearing costs during that time."