Pre-Natal Development **BABY**

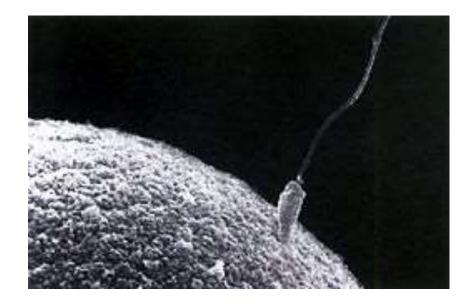
Zygote Embryo Fetus

Prenatal Baby Development

- Development of the baby during the period before birth.
- Develops in three stages
 - Zygote
 - Embryo
 - Fetus

Conception

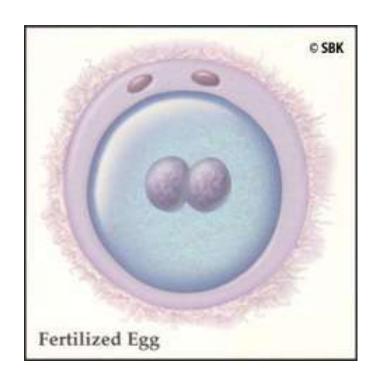
- Once a month and ovum is released
 - Ovum- A female egg
- The Egg moves through the Fallopian Tube to the uterus
 - Uterus-Where the baby develops during pregnancy
- If not fertilized it disintegrates and is flushed away with menstruation



But . . .

If it is fertilized in the Fallopian Tube by a sperm—Conception occurs

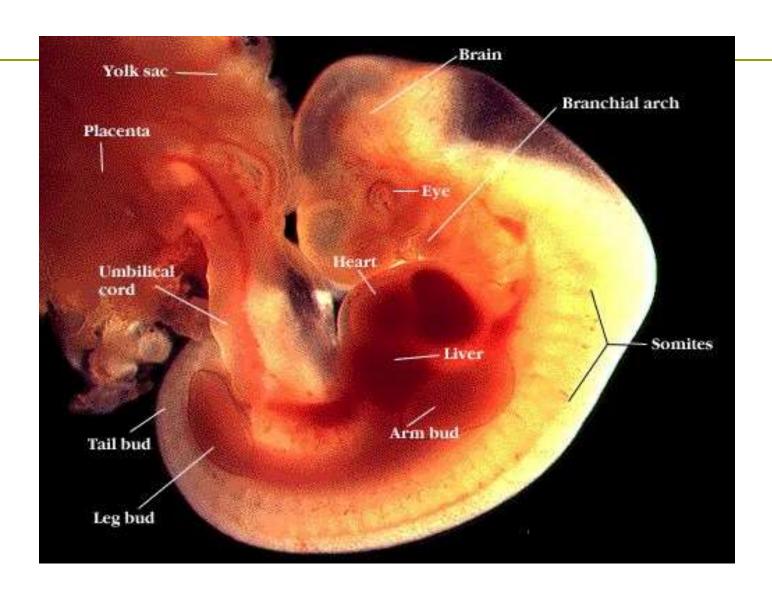
This Union is what we call a zygote!



The Zygote—Month 1

- Fertilized egg reaches the uterus and attaches itself to the uterus.
- Cell multiplication begins
- Internal organs and circulatory system begins to form.
- Cell Division takes place and at the end of two weeks the zygote is the size of a pinhead
- Heart begins to beat
- Small bumps show the beginnings of arms and legs

Parts of the Zygote



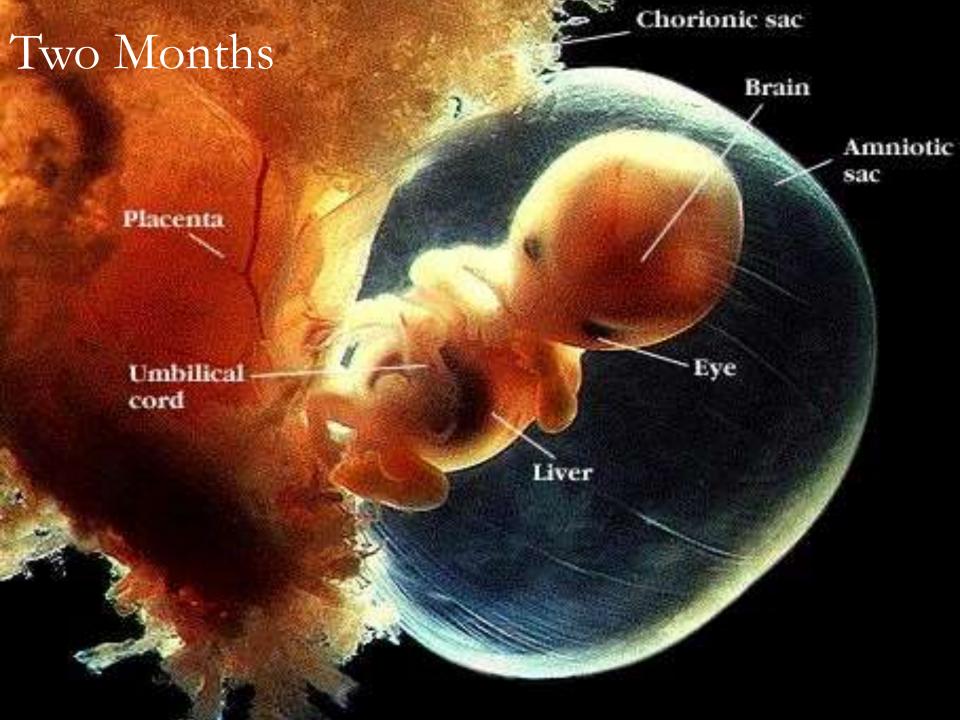


4 Weeks



The Embryo—Month 2

- At 5 weeks the embryo is ¼ inch long
- All major organ systems develop
- The placenta and Umbilical Cord develop
 - Placenta- The tissue that connects the sac around the unborn baby to the mother's uterus
 - Umbilical Cord- Tube that connects the baby to the placenta
 - Brings the baby nourishment and oxygen from the mother's blood
 - Takes away waster products
- Amniotic Fluid surrounds the baby
- Face, and limbs take shape









6 Weeks 7 Weeks 8 Weeks



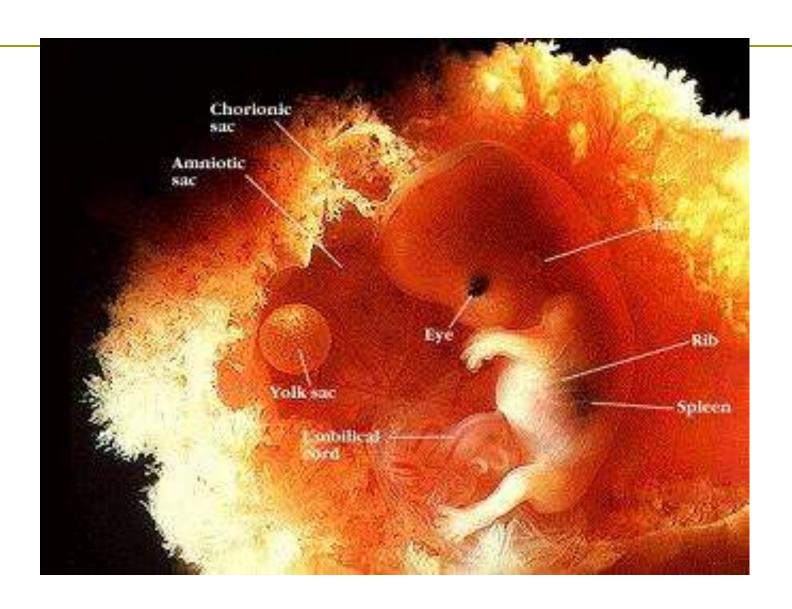
7 weeks

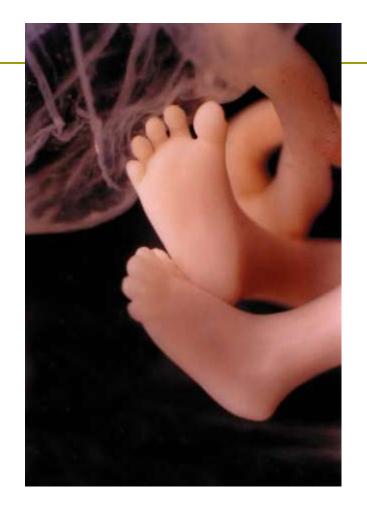


8 weeks

- The fetus is about 1 inch long
- Nostrils, mouth, lips, teeth buds, and eyelids form
- Fingers and toes are almost complete
- Eyelids are fused shut
- Arms, legs, fingers, and toes have developed
- All internal organs are present—but aren't ready to function
- The genital organs can be recognized as male or female

3 Months



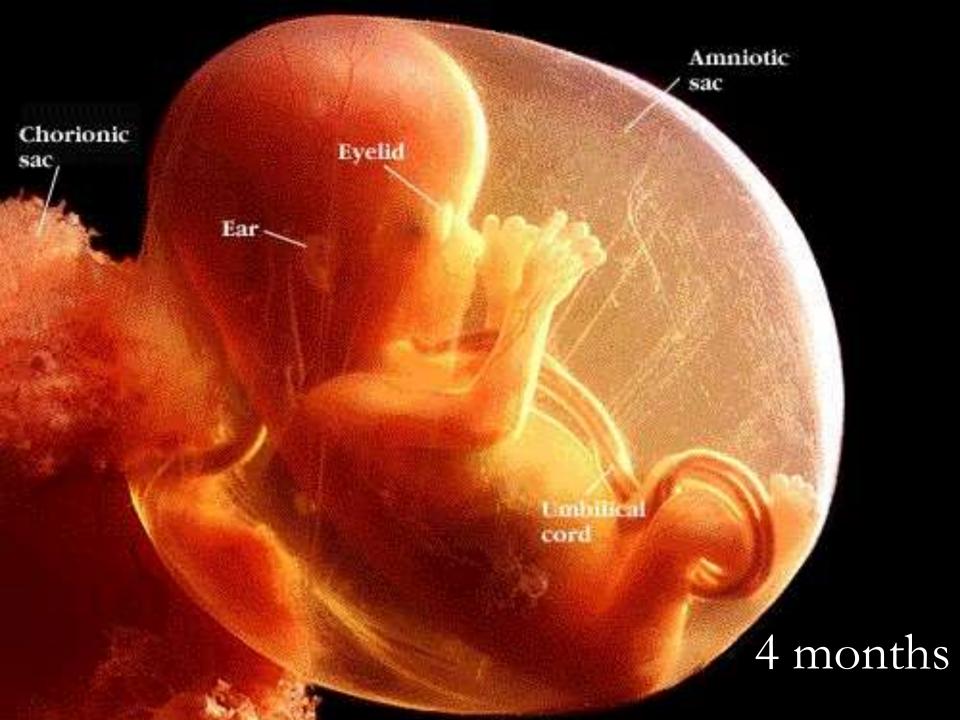


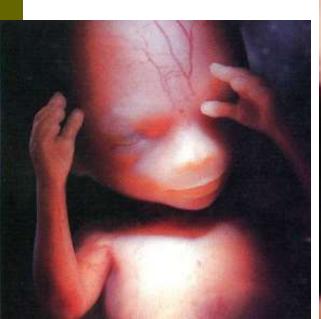
11 Weeks



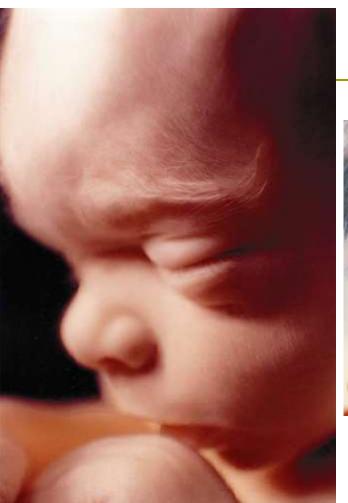
12 Weeks

- Fetus is 3 inches long and weights 5 oz.
- Your baby is covered with a layer of thick, downy hair called lanugo.
- His heartbeat can be heard clearly.
- This may be when you feel your baby's first kick.
- The baby can such thumb, swallow and hiccup.





15 Weeks



16 Weeks



18 Weeks

- The Fetus is about 6 inches long and weighs 4-5 oz.
- A protective coating called vernix begins to form on baby's skin.
- Hair eyelashes and eyebrows appear
- Organs keep maturing
- □ Fetus is very active
- The eyes can open and blink

Smallest baby in the world born At just 22 weeks

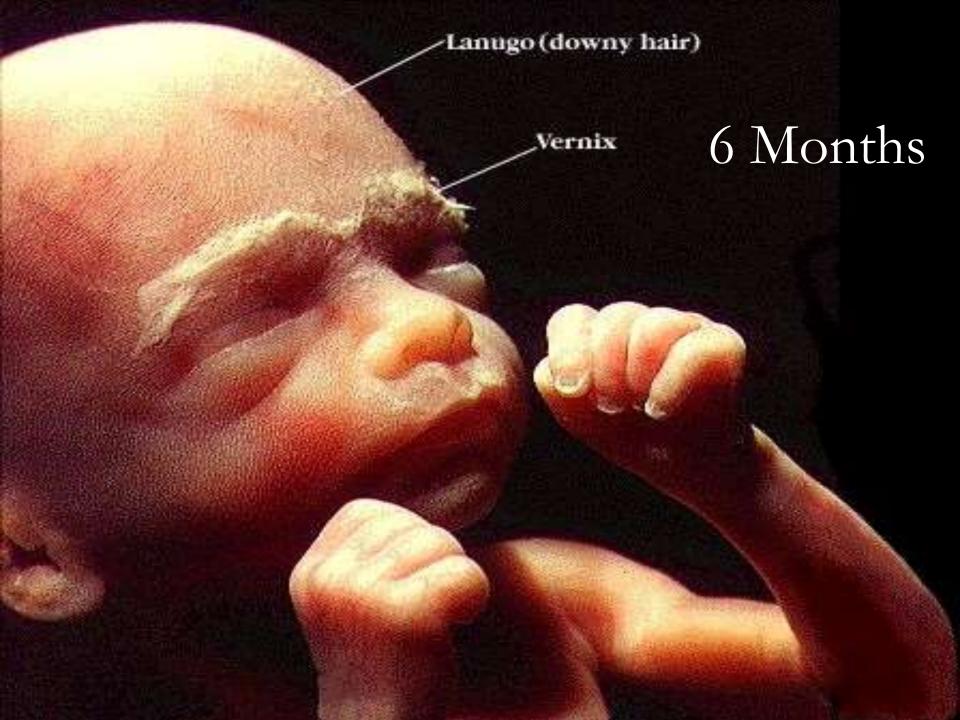
Her little feet





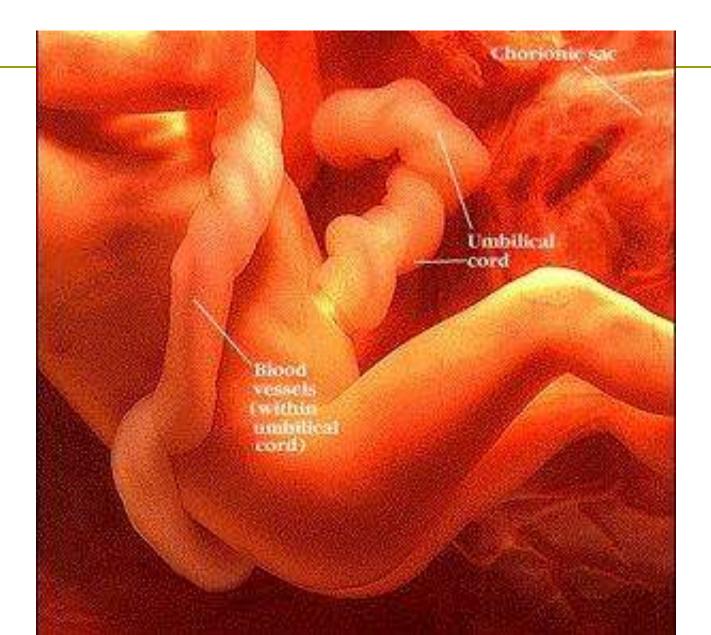
She was 10 OUNCES when born and 9.5 inches. That's just longer than the length of your hand. She weighed less than a can of soda!

- □ The fetus is 8-10 inches long and weighs 4-5 oz.
- Your baby's lungs are filled with amniotic fluid, and he has started breathing motions.
- If you talk or sing, he can hear you.
- Fat is starting to deposit under the skin



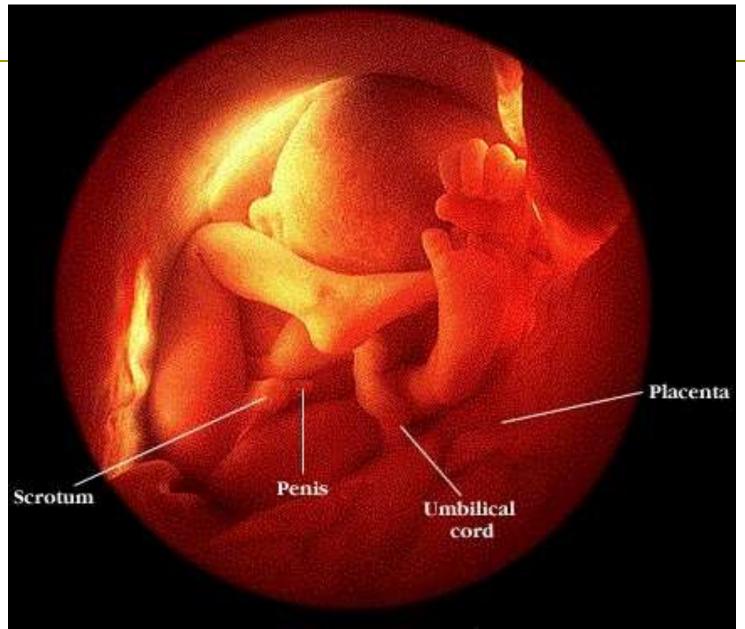
- Fetus is 10-12 inches long and weighs about 1-2 pounds.
- Fetus is active and then rests.
- The baby now uses the four senses of vision, hearing, taste and touch

Seven Months



- The fetus is 14-16 inches long and weighs 2-3 pounds
- Layers of fat are piling on.
- Fetus has probably turned head-down in preparation for birth.
- Fetus may react to noises with a jerking action

Eight Month



- Fetus is about 17-18 inches long and weighs 5-6 pounds
- Skin is smooth because of the fat
- Baby's movement slows down due to lack of room
- "Lightening" occurs when the baby drops in the pelvis
- Disease fighting antibodies are taken from the mother's blood



