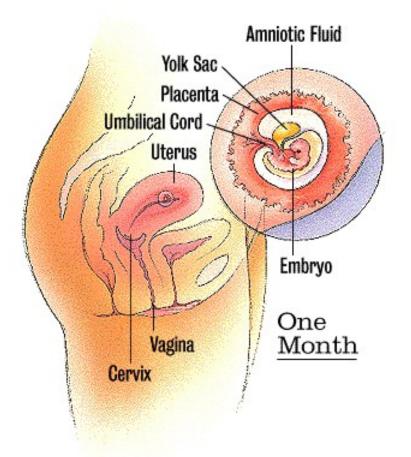


# FACULTY OF NURSING

## **FETAL DEVELOPMENT**

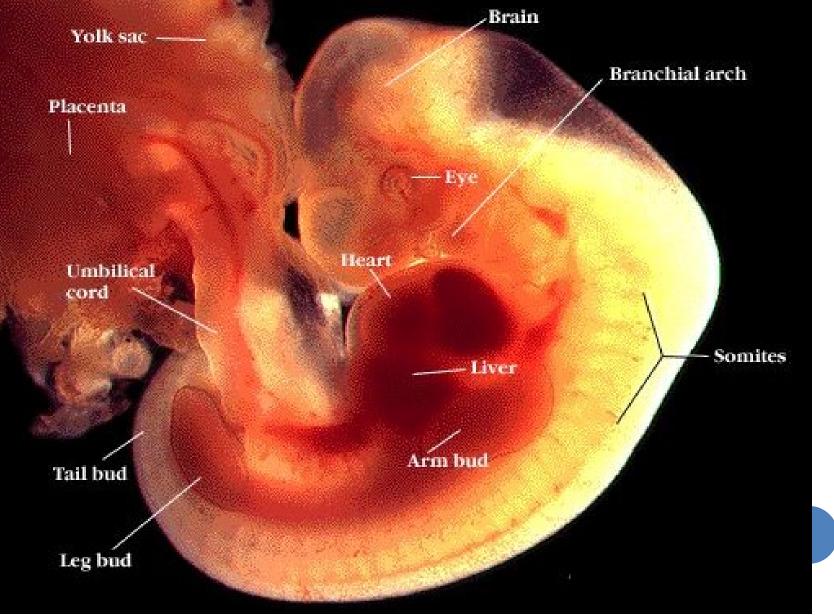
By JASMI JOHNSON H.O.D (OBS/GYN) RAMA COLLEGE OF NURSING

#### FIRST MONTH



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.

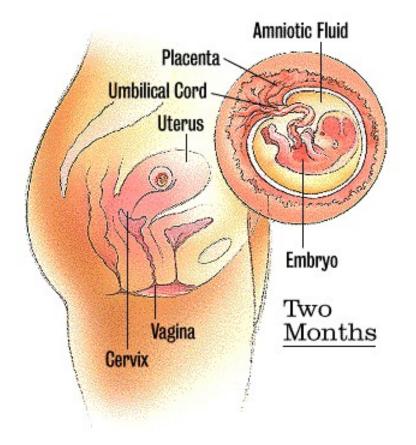
## FIRST MONTH



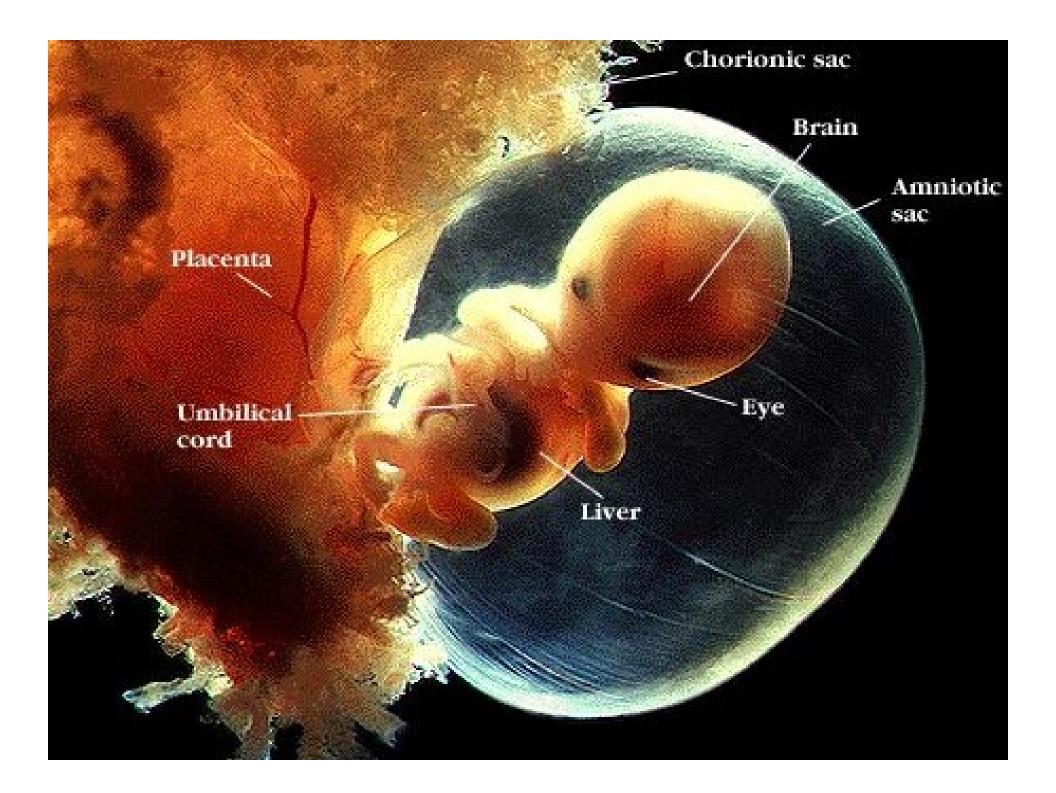
## **0-4 WEEKS**

- Primitive form of some body system
- Heart develops and begins to beat
- Covered with a layer of skin
- Limb buds form
- Gender determines

#### TWO MONTHS



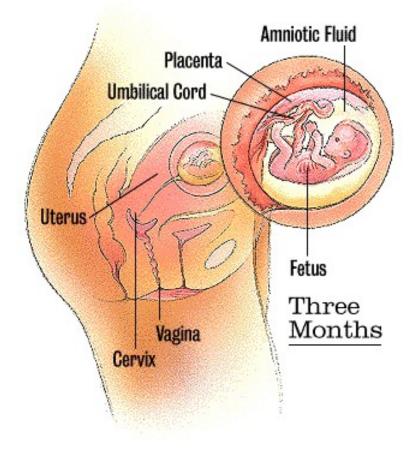
 The embryo is about
1 inch long and has distinct, slightly
webbed fingers.
Veins are clearly
visible. The heart
has divided into right
and left chambers.



## **4-8 WEEKS**

- Very rapid cell division
- More body systems laid down in primitive forms
- Blood is pumped around the vessels
- Lower respiratory systems begins
- Head and facial features develop
- Early movements
- Visible on USG from 6week

#### THREE MONTHS

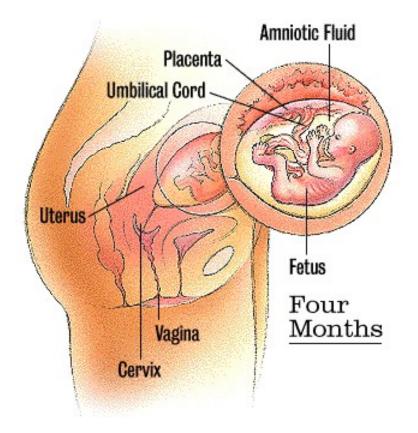


 By now the fetus is 2 1/2 to 3 inches long and is fully formed. He has begun swallowing and kicking. All organs and muscles have formed and are beginning to function.

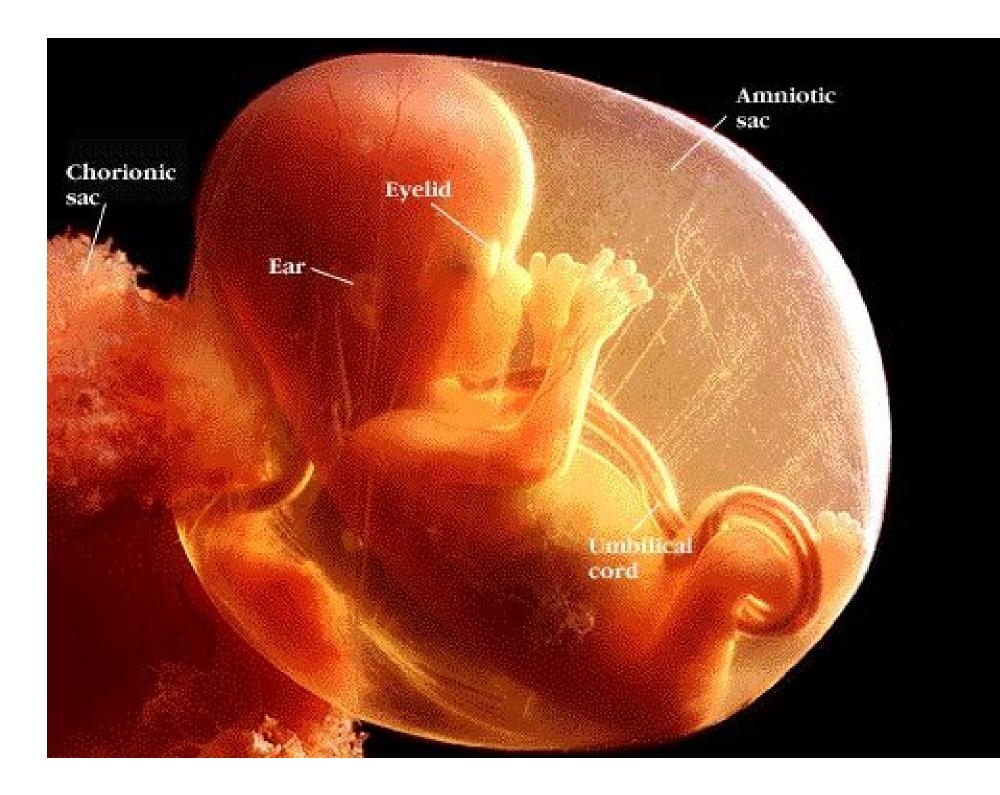
#### 8-12 WEEKS

- Rapid weight gain
- Eyelids fuse
- Urine passed at 10 week
- Swallowing begins
- External genitalia present but gender not distinguishable
- Fingernails develop
- Some primitive reflexes present

#### FOUR MONTHS



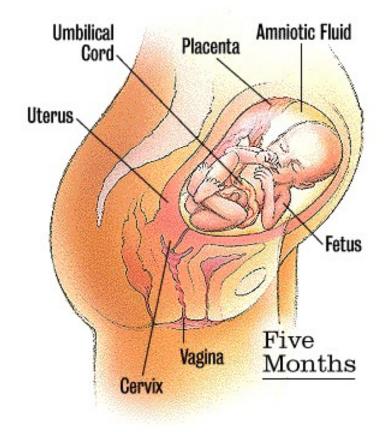
• Your baby is covered with a layer of thick, downy hair called **lanugo**. His heartbeat can be heard clearly. This is when you may feel your baby's first **kick**.



### **12-16 WEEKS**

- Rapid skeletal movement
- Meconium present in gut
- Nasal septum and palate fuse
- Gender distinguishable
- Lanugo appears

#### FIVE MONTHS

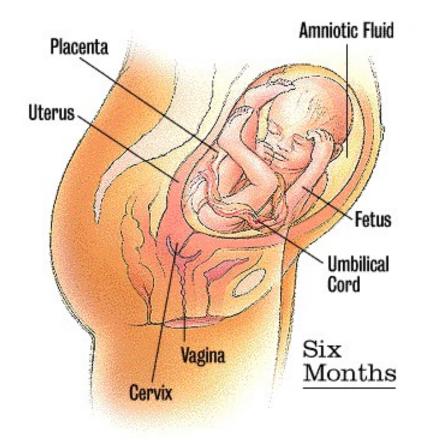


 A protective coating called vernix caseosa begins to form on baby's skin. By the end of this month, your baby will be nearly 8 inches long and weigh almost a pound.

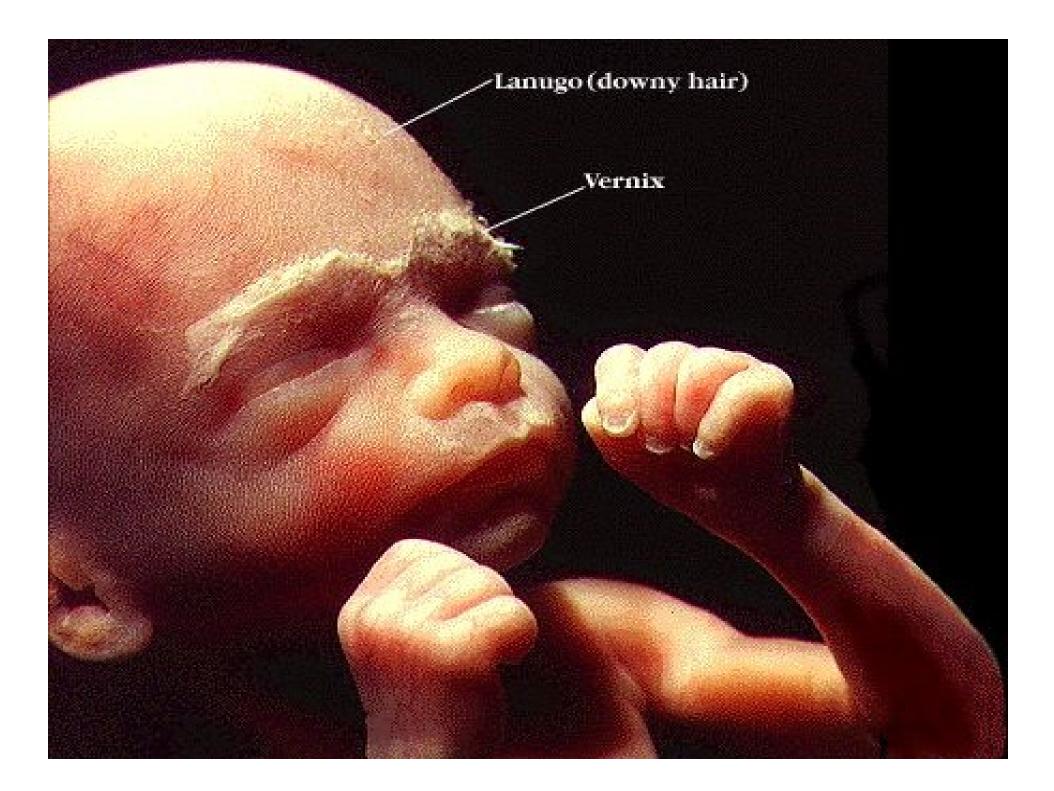
## **16-20** WEEKS

- Constant weight gain
- **Quickening** -mother feels the fetal movement
- Fetal heart sound on auscultation
- Vernix caseosa appears
- Skin cells begin to be renewed

#### SIX MONTHS



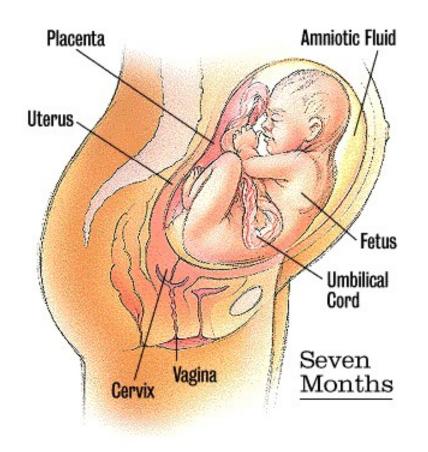
• Eyebrows and eyelids are visible. Your baby's lungs are filled with amniotic fluid, and he has started breathing motions. If you talk or sing, he can hear you.



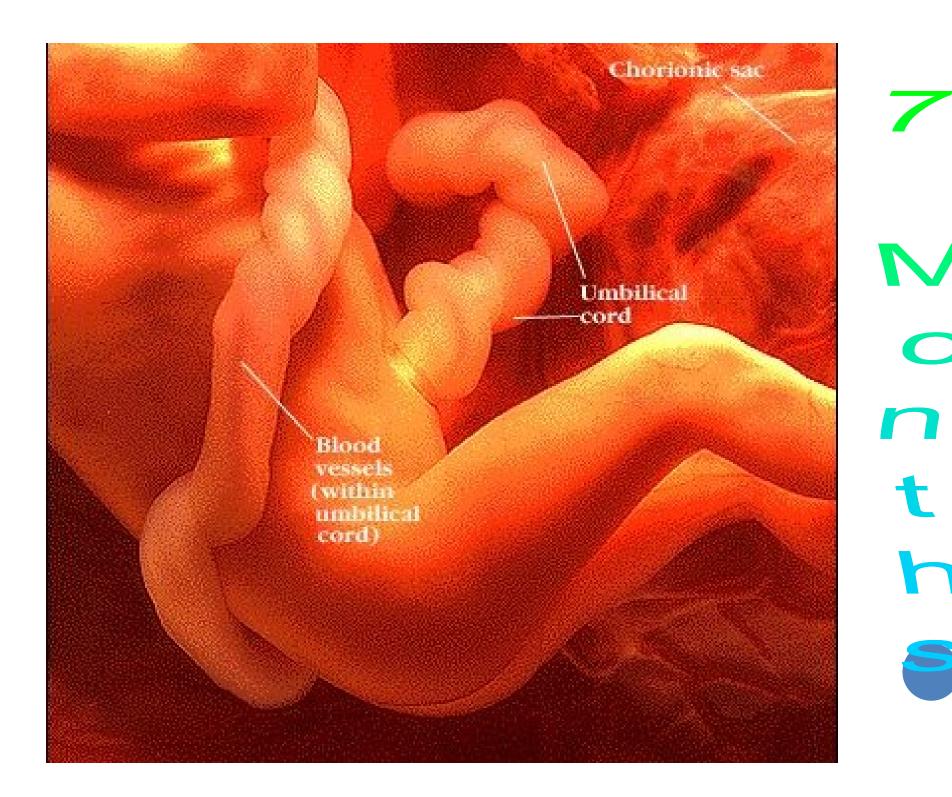
#### **20-24 WEEKS**

- Most organs functioning well
- Eyes complete
- Periods of sleep and activity
- Ear apparatus developing
- Responds to sound
- Skin red and wrinkled

#### SEVEN MONTHS



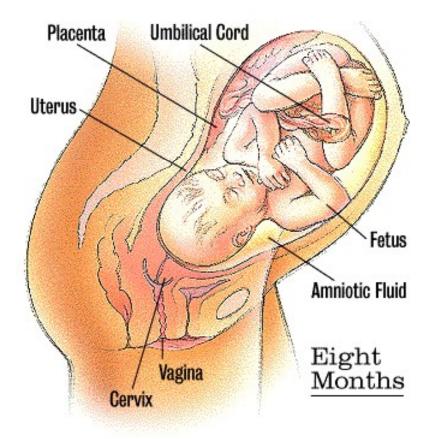
By the end of the seventh month, your baby weighs about 3
1/2 pounds and is about 12 inches
long. His body is well-formed.
Fingernails cover his fingertips



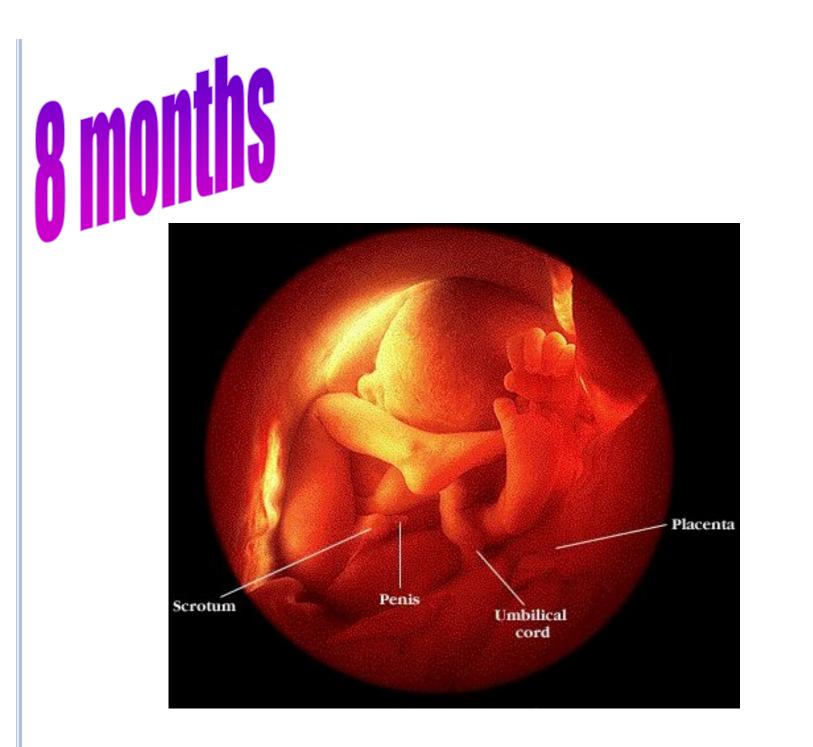
#### **24-28 WEEKS**

- Legally viable and survival may be expected if born
- Eyelids open
- Respiratory movements

#### EIGHT MONTHS



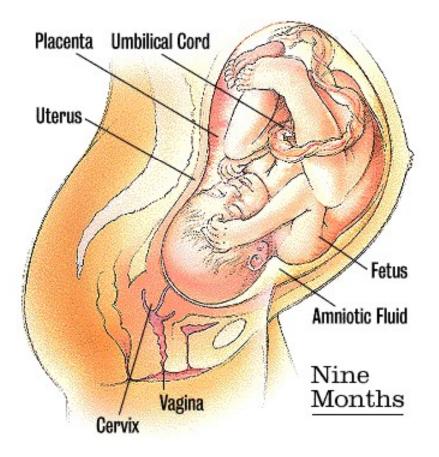
• Your baby is gaining about half a pound per week, and layers of fat are piling on. He has probably turned head-down in preparation for birth. He weighs between 4 and 6 pounds.



#### **28 - 32 WEEKS**

- Begins to store fat and iron
- Testes descend into scrotum
- Lanugo disappears from face
- Skin becomes paler and less wrinkled

#### NINE MONTHS



 Your baby is a hefty
6 to 9 pounds and measures between
19 and 22 inches. As
he becomes more
crowded, you may
feel him move
around less.

#### **32-36 WEEKS**

- Lanugo disappears
- Head hair lengthens
- Nails reach tips of fingers
- Ear cartilage soft
- Plantar creases visible

