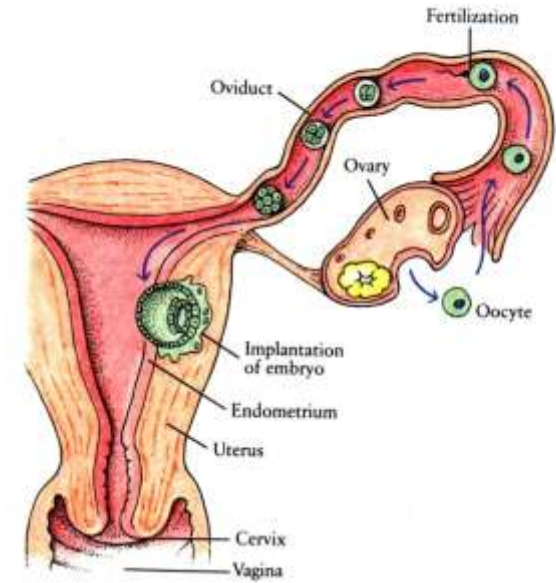


Embryo Development

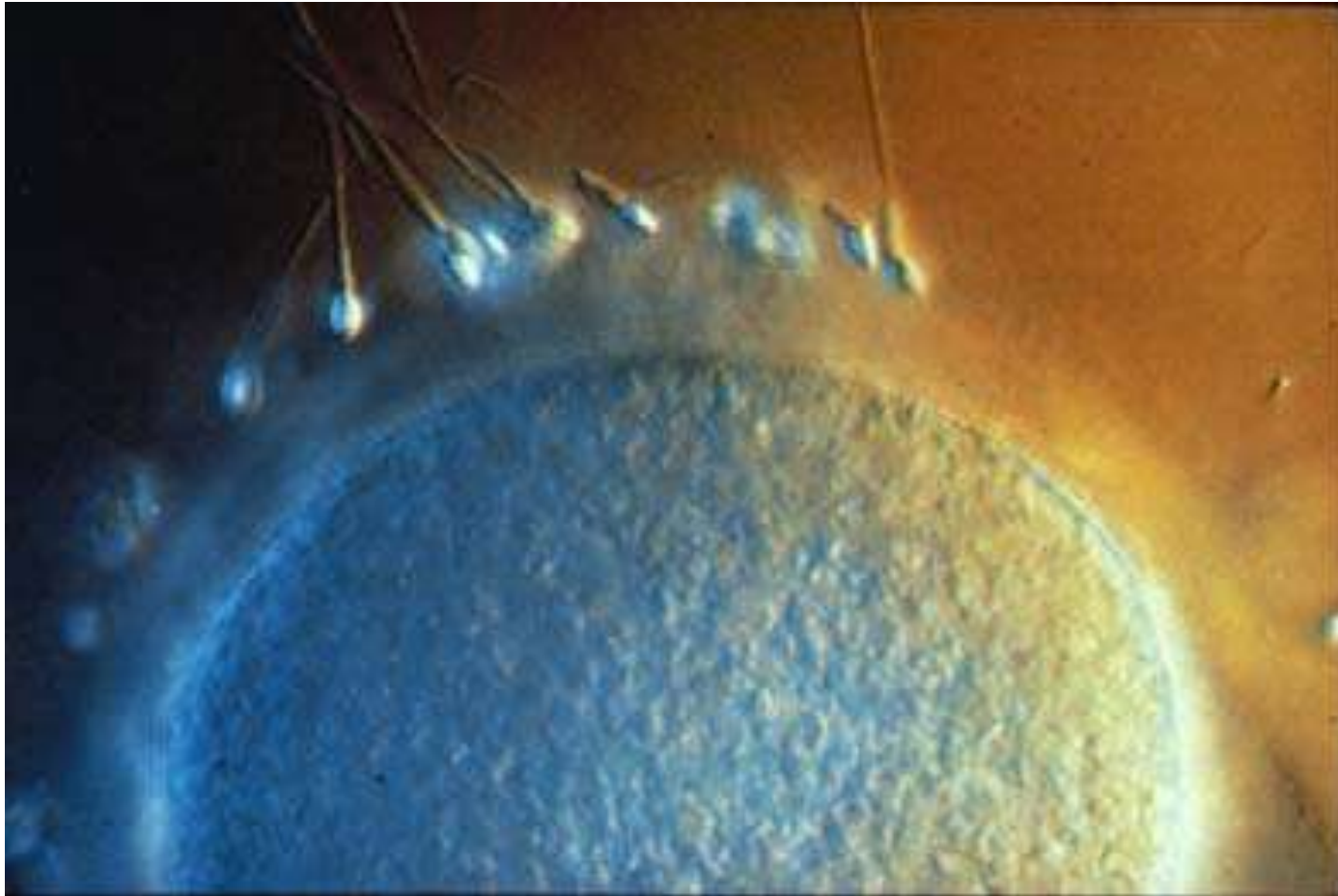


Fertilisation

- Gametes fuse to form a zygote



Fertilisation



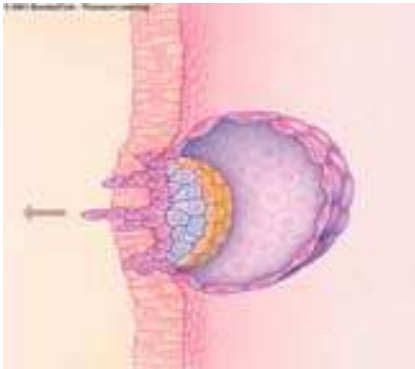
Zygote begins to divide to form a mass of cells



Implantation



- Zygote implants into thick walls of uterus
- Placenta is formed
- Embryo supported via umbilical cord



Implantation

- Progesterone and estrogen levels stay high to support the placenta



1st Trimester



- Heart develops first
- Neural tube develops
- Eyes, ears and legs
- All body systems appear by Week 8

1st Trimester



- The faster and most complicated period
- Worst part of pregnancy for most women



2nd Trimester



- 9 weeks - Now a Foetus
- Mostly growth
- Looks more like a baby
- Arms legs finger and toes
- Some prematures can survive at this stage



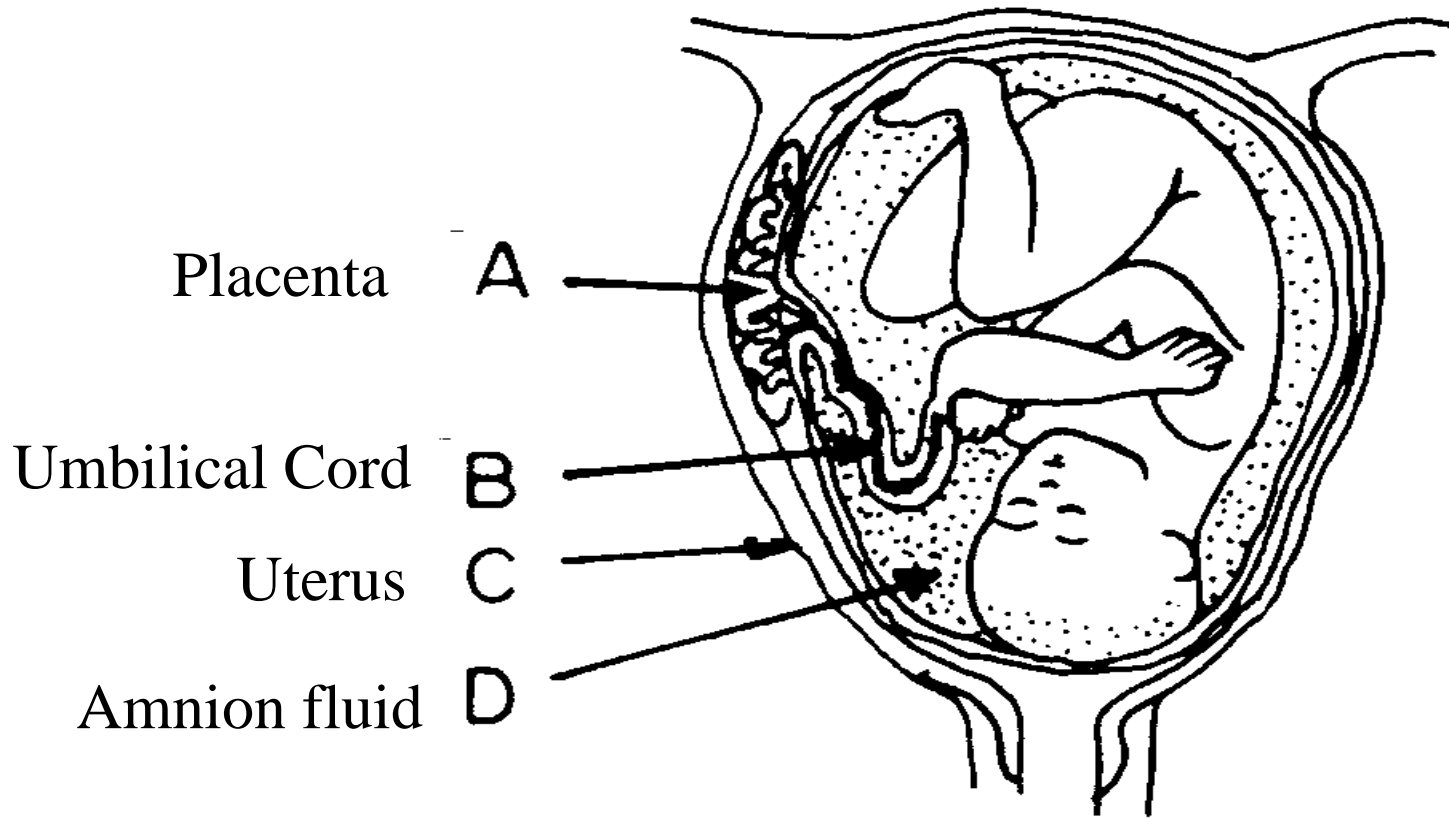
3rd Trimester



- 22 weeks hear a heart beat
- Kicking, rolling, stretching
- Eyes open - Week 32
- Lungs mature
- Rotates to head-down position



Inside the Uterus



Placenta

A

Umbilical Cord

B

Uterus

C

Amnion fluid

D

Inside the uterus



- Amnion - fluid that protects the foetus
- Umbilical cord - cord attached to the foetus from the placenta
- Placenta - where blood from mother runs along side the foetus

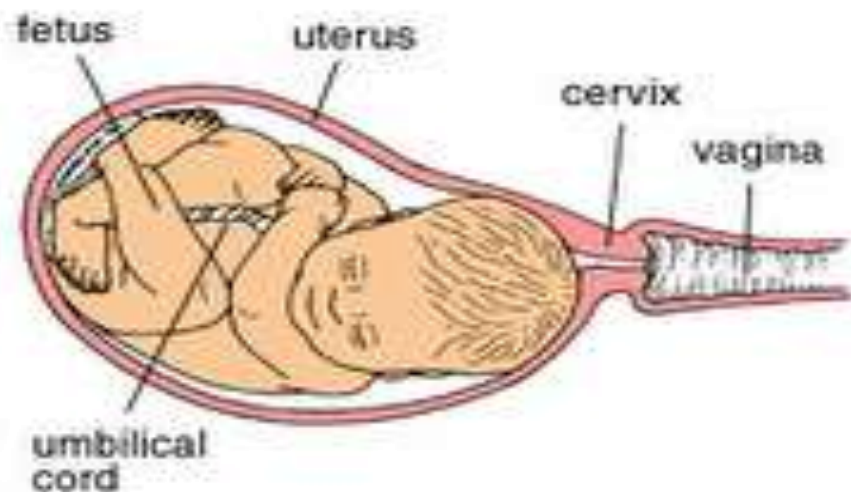
Birth



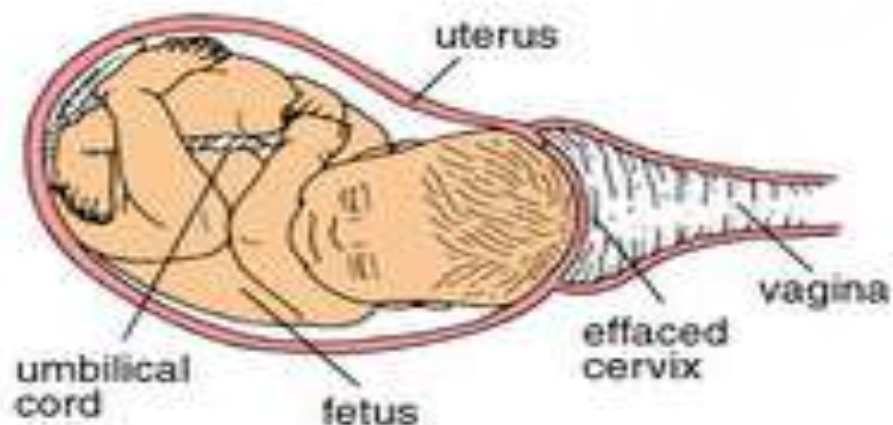
- Labor
 - Uterine contractions begin
 - Cervix dilates to 10 cm.
- Birth
 - Uterus pushes baby through vaginal canal
- Placenta delivered after

Stage 1

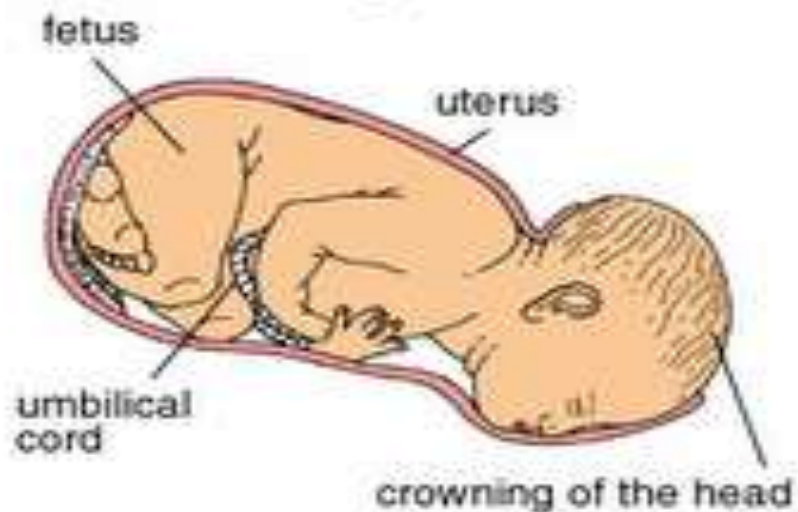
initial (latent) phase



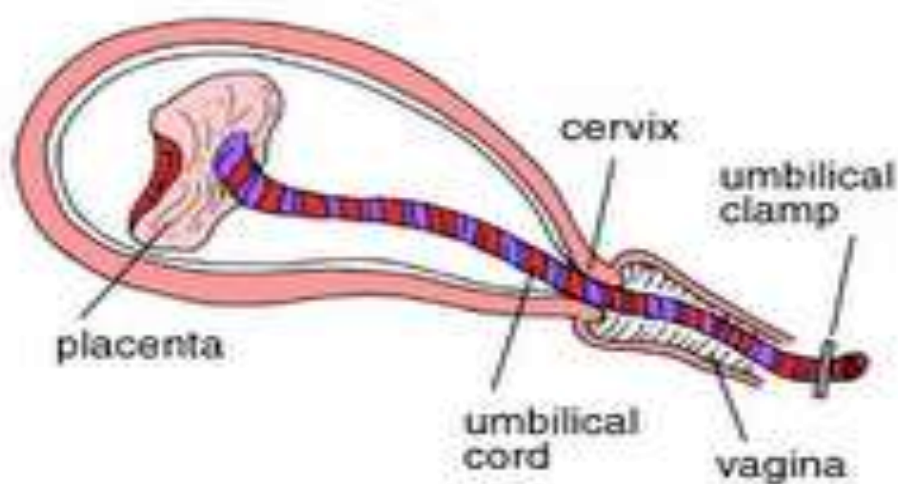
active phase



Stage 2



Stage 3





Gestation of other animals



Animal	Average gestation period (days)
Rabbit	33
Dogs	65
Lion	108
Human	260
Horses	336
Rhino	487
Elephant	600

- What can happen
 - Alcohol
 - Drugs
 - Smoking



Complications

- Breech
- Caesarean birth
- Premature

