



Wed, March 22, 2017

Pick up: none

Honors: Please bring in
field trip forms & sign up
for Wed or Friday

Today you will:

1. Get ISN pg 176-177 stamped
2. Ovulation & Fertilization Notes ISN pg 178
3. Practice Questions ISN pg 179

Homework/Planner:

Anything not complete up to ISN pg 179

Match the function with the correct organ

B 1. Testicles

A 2. Scrotum

D 3. Epididymis

E 4. Vas Deferens

F 5. Seminal vesicle

G 6. Penis

C 7. Seminiferous
tubules

A. Pouch containing testicles

B. Make testosterone & responsible for
generating sperm

C. Tubes within testicles; Produce sperm
cells

D. Long coiled tube on back of each
testicles; transports & stores immature
sperm cells

E. Long, muscular tube that transports
mature sperm to the urethra

F. Sac-like pouches that produce a sugar-
rich fluid that provides sperm with a
source of energy

G. Transports sperm & urine

Testicles -**Make Testosterone & responsible for generating sperm**

Scrotum-**Pouch containing the testicles**

Epididymis-**Long coiled tube on back of testicles; transports & stores immature sperm cells**

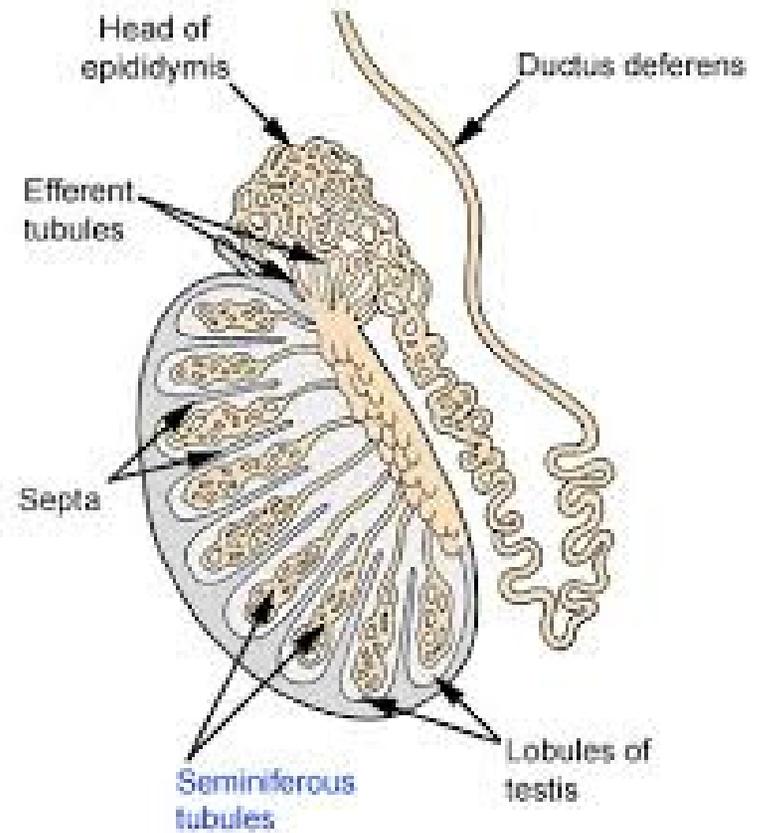
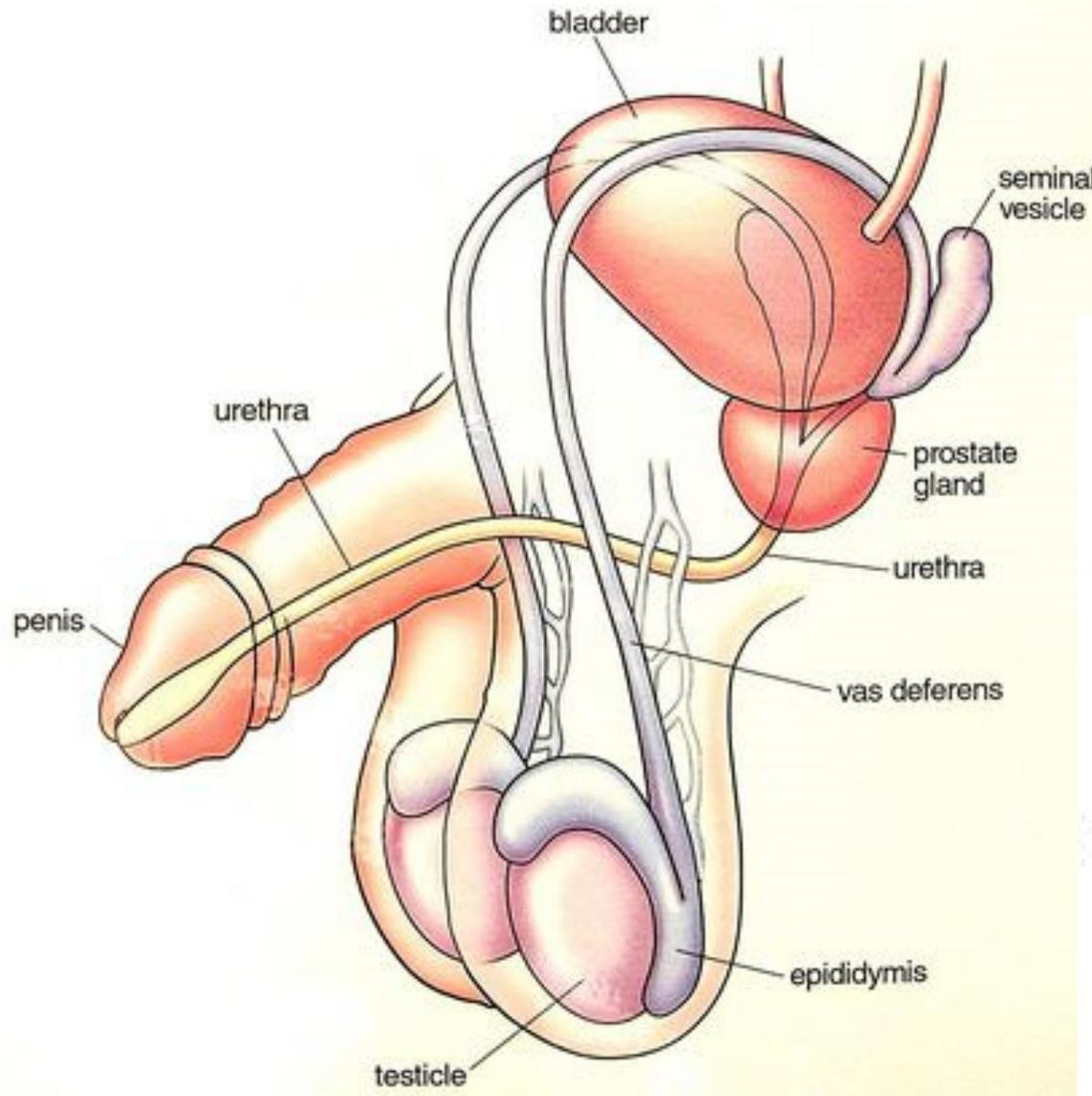
Vas Deferens-**Long, muscular tube that transports mature sperm to the urethra**

Seminal Vesicle-**Sac-like pouches that produce a sugar-rich fluid that provides sperm with a source of energy**

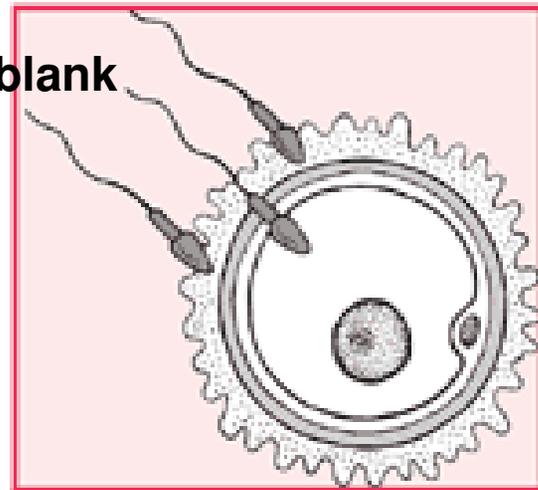
Penis-**Transports sperm & urine**

Seminiferous tubules-**Tubes within testicles; Produce sperm cells**

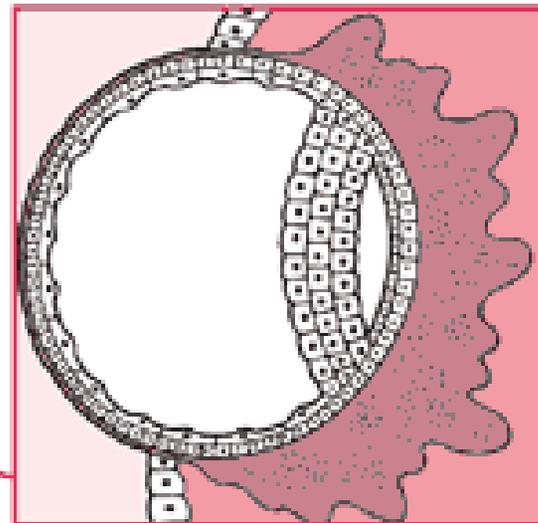
Male Reproductive System



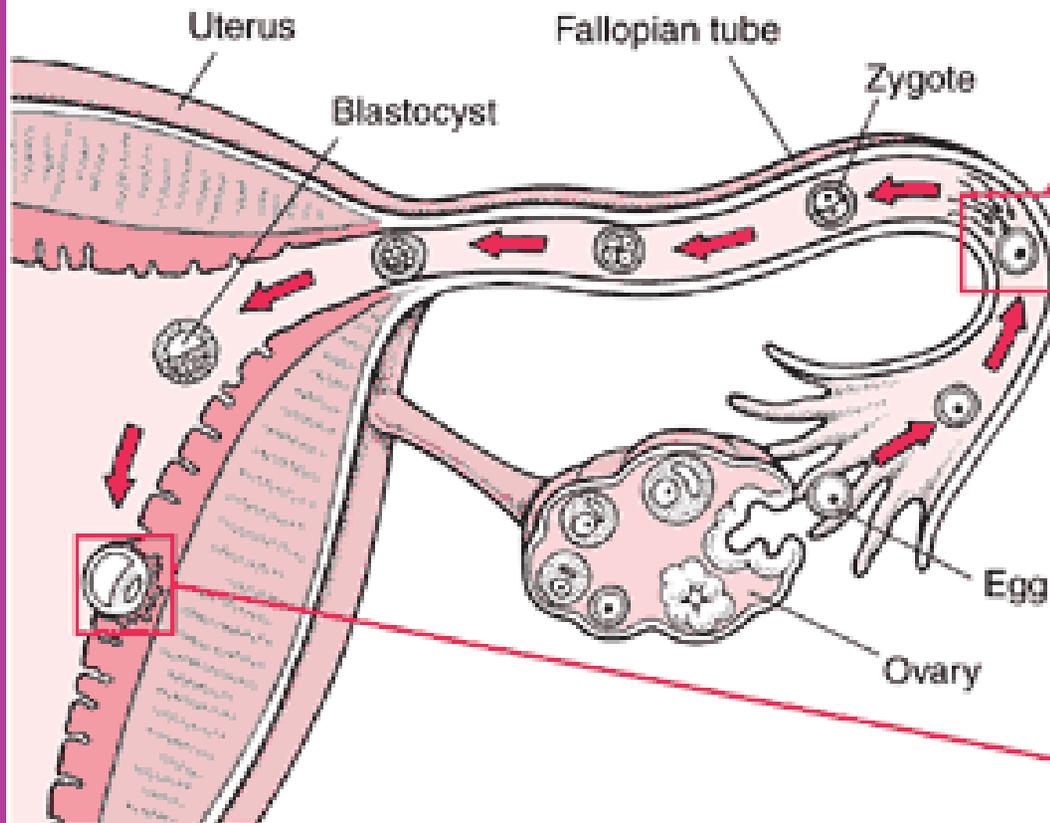
ISN pg 179 Use TB pg 798 to complete fill-in-the-blank



Fertilization



Implantation



OVULATION & FERTILIZATION ISN PG 178 TB CH 34.2

What is
Ovulation?

Release of egg
Occurs approx 14 days before end
of cycle

Fertilization?

Sperm & Egg join together
Zygote is formed
 $23 + 23 = 46$ In fallopian tubes

What if no
Fertilization?

No baby-
Menstruation aka period

OVULATION & FERTILIZATION ISN

PG 178 TB CH 34.3

What is the Placenta & Fx?

Connects the mother & baby allowing oxygen, nutrients, waste to diffuse between them
Blood does NOT mix

Amniotic Sac/fluid & Fx?

Membrane & fluid that cushions & protects the baby from temperature changes and impacts

Umbilical Cord & Fx?

Two arteries & a vein that connects baby to amniotic sac. Nutrients, oxygen & waste travel through this to/from mother/baby

14 week old fetus



What is a Belly Button???

Your very first scar ■

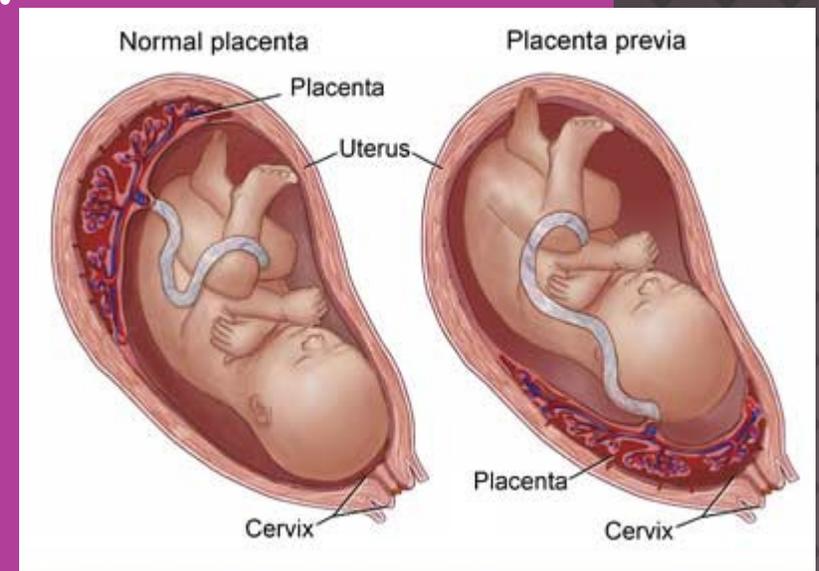
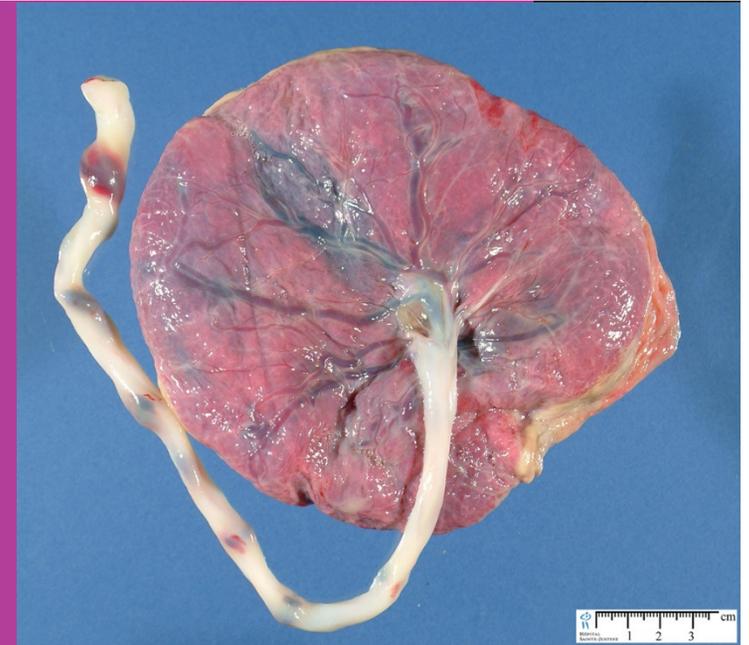


<http://www.blogthings.com/whatdoesyourbellybuttonayaboutyouquiz/>

1. Scar tissue left over from where umbilical cord joined you to your mother's **placenta** when you were in her womb.
2. Nourishment going to the baby & all wastes coming out passed through belly button, via the umbilical cord.
3. Once delivered, umbilical cord was usually clamped or tied, and then cut → stump withers & falls off after a few days, leaving behind the scar we call the belly button.

The Placenta

- Organ created during pregnancy to nourish fetus, remove its waste & prod. hormones to sustain pregnancy.
- Attached to wall of uterus by blood vessels that supply fetus with oxygen & nutrition & remove waste from fetus & transfer it to mother.
- Fetus attached to placenta by umbilical cord. Through this, the fetus receives nourishment & oxygen & expels waste.
- On one side of the placenta, the mother's blood circulates, and on the other side, fetal blood circulates.



<http://pregnancy.about.com/cs/placentas/a/pla>

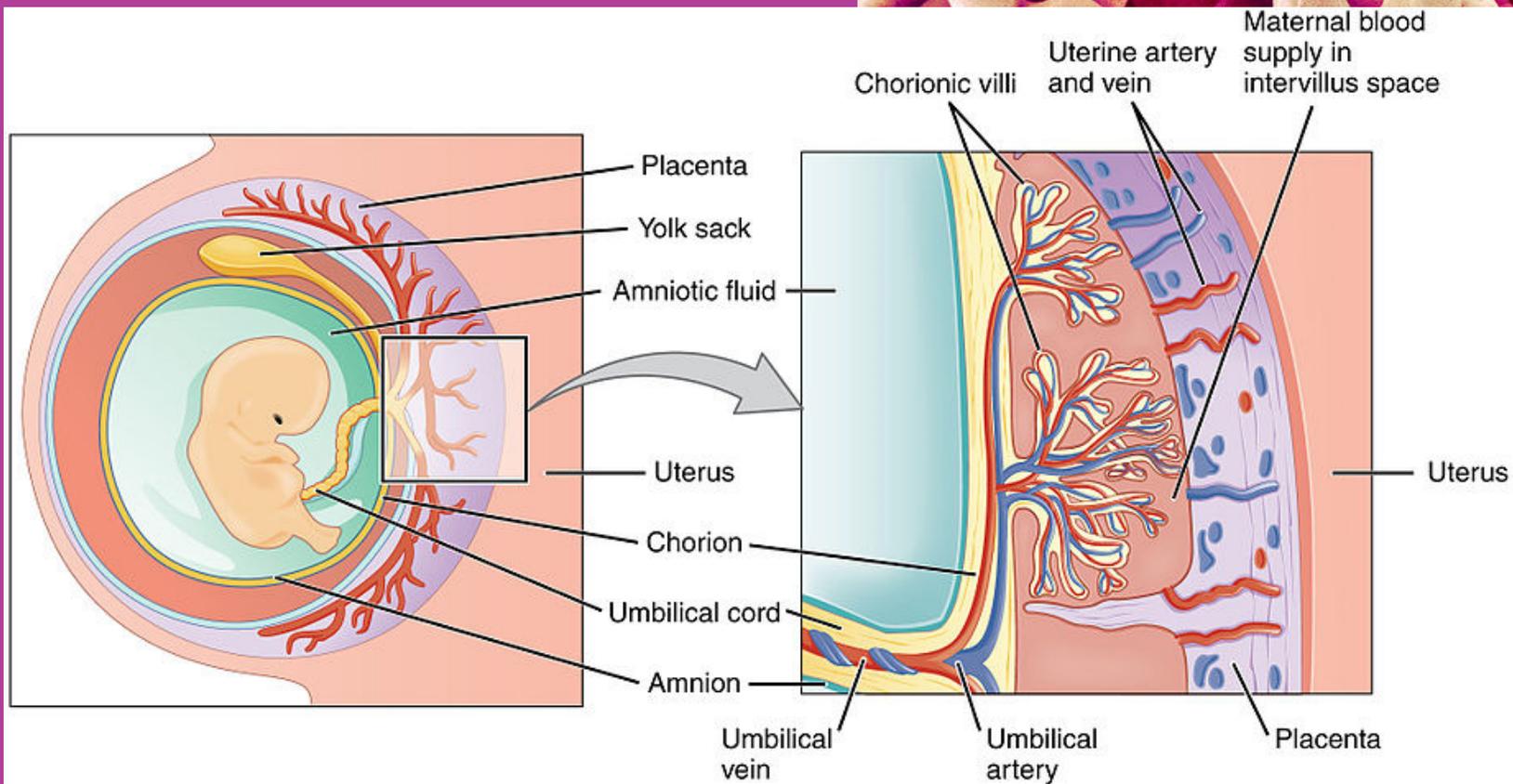
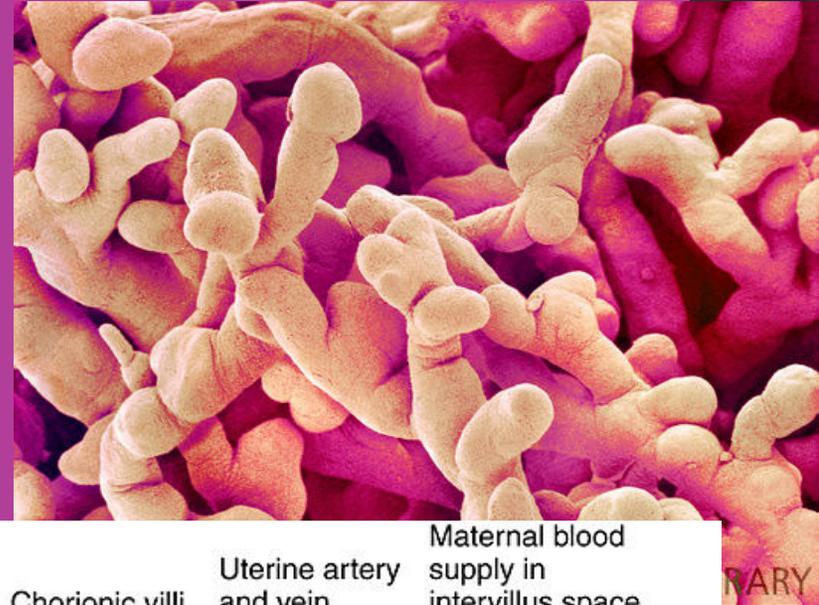
<http://pregnancy.about.com/cs/rhfactor/a/aa0506>

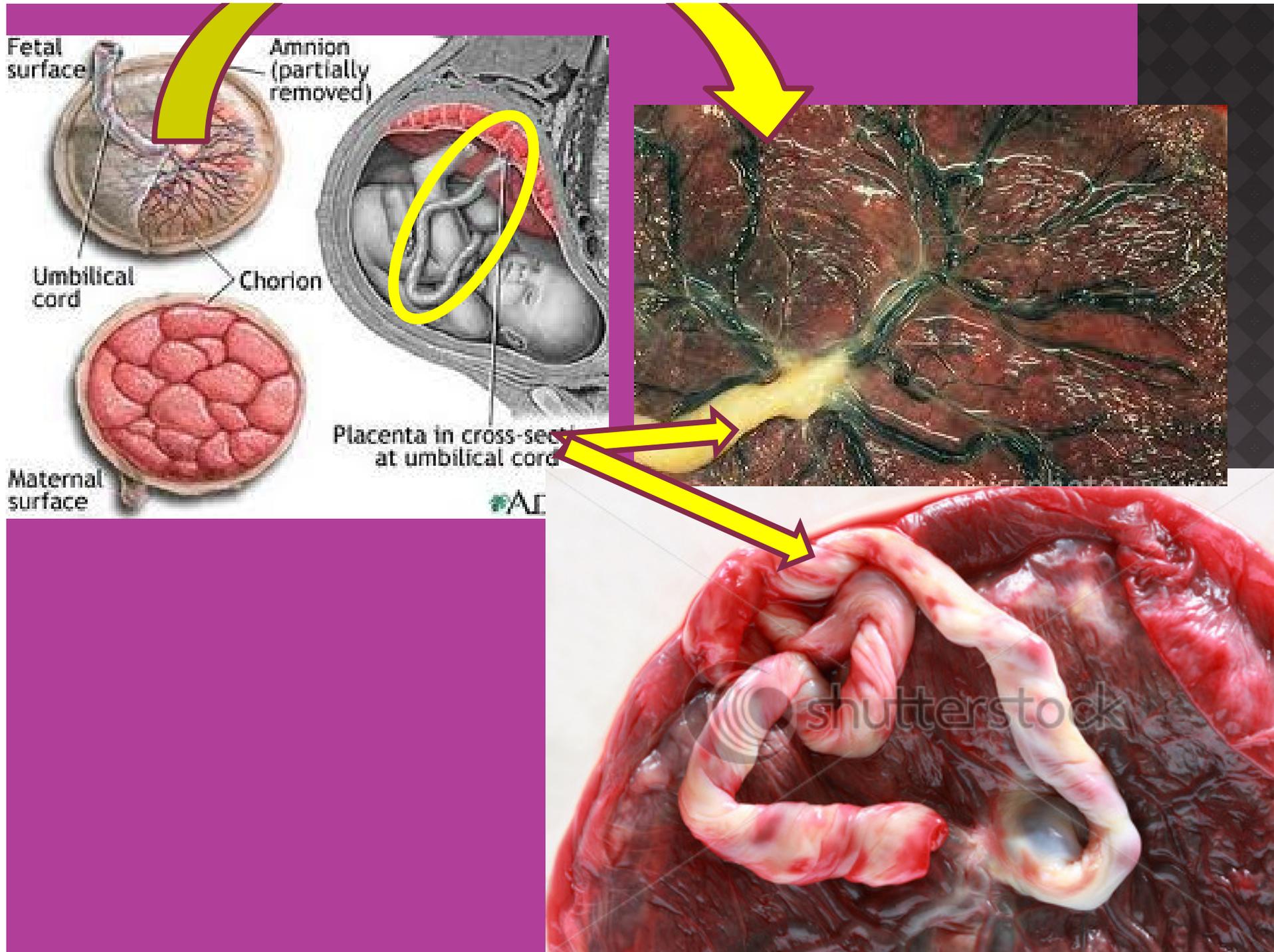
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Colored SEM of Villi in placenta at the time of childbirth.

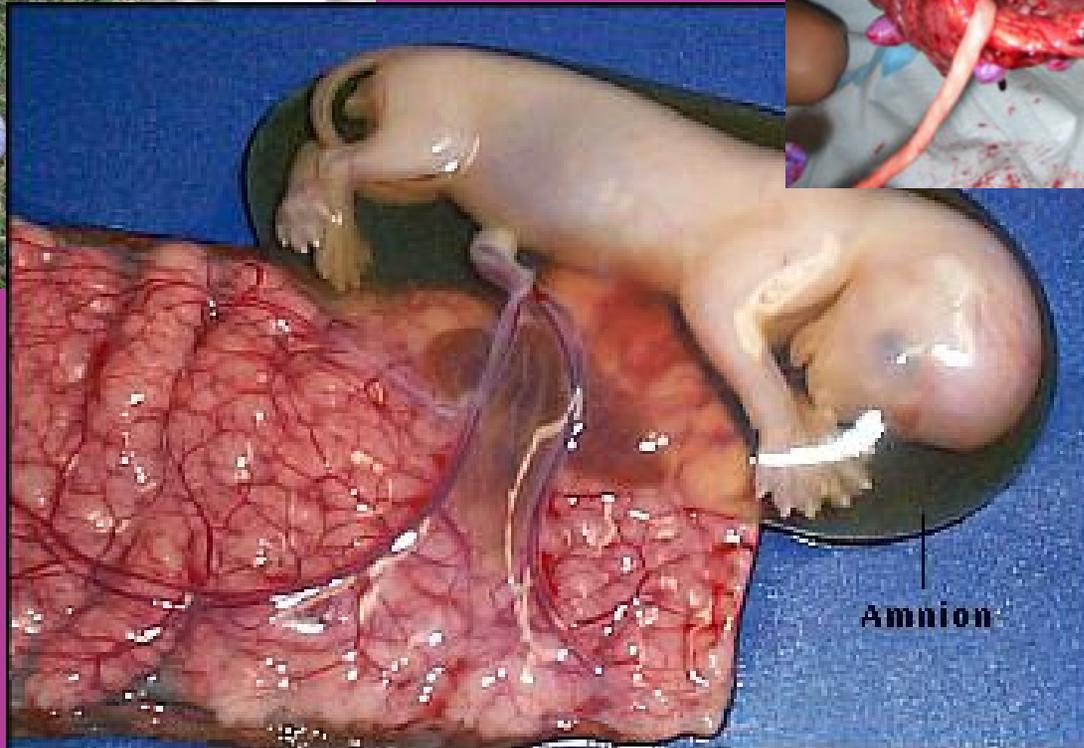
○ Villi → projections of fetal tissue into maternal part of the placenta

○ Packed with blood vessels, allowing the fetus' blood supply to come very close to the mother's blood.

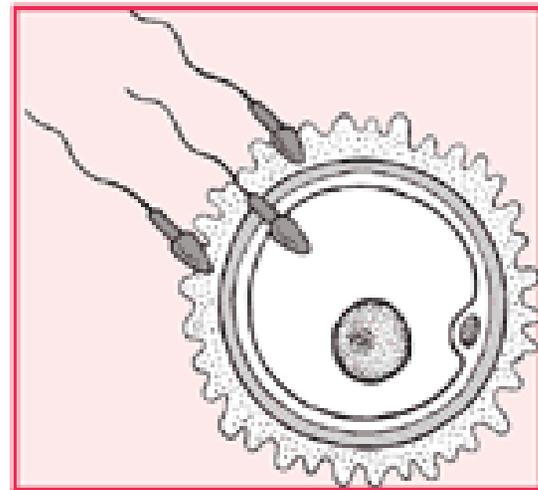




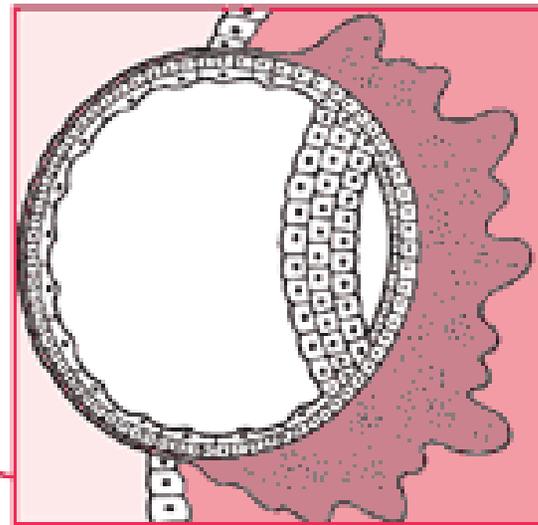
Speaking of the Amniotic Sac, Placenta.. the Afterbirth



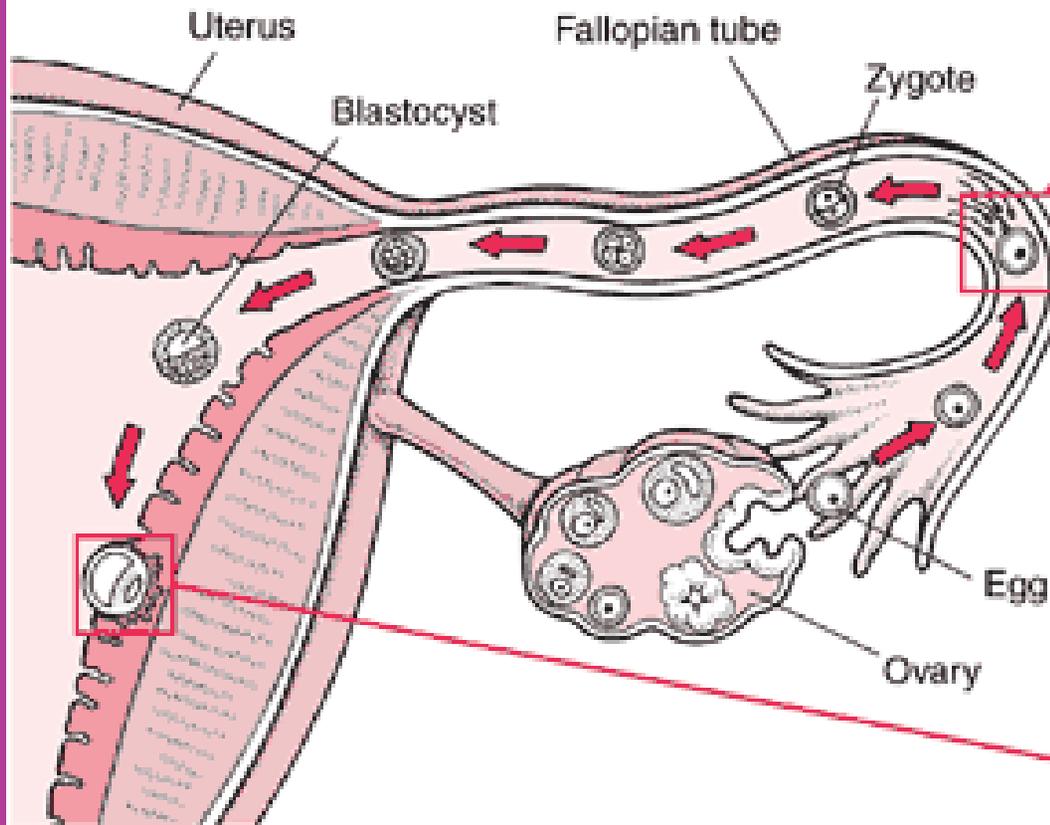
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Fertilization



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- <https://www.youtube.com/watch?v=jk0F-TnKFwU>