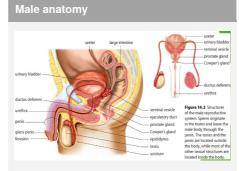
Cheatography

XX - Female

XY - Male

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Embryos identical until 7 weeks, sex is determined after that point when hormones are are present or absent. Hormones gonadotropin releasing hormone (GnRH) stimulates the release of FSH and LH from the anterior pituitary stimulates the release of FSH and LH from the anterior pituitary follicle stimulating hormone (FSH) stimulates the development of the sex organs and gamete production stimulates the development of the sex organs and gamete production luteinizing hormone (LH) stimulates the production of triggers ovulation, and (with FSH) stimulates estrogen production stimulates the development of the female reproductive tract and secondary sex characteristics minor progesterone minor causes ute ine thickening testosterone stimulates the development of the male reproductive tract and secondary sex characteristics minor nhibit FSH production nibit FSH production Spermatogenisis Spermatogenesis ·meiosis in males ·spermatogonium 16-292 At puberty PMAT 5 spermatocytes 46 46 23 23 23 Swith ta



Male anatomy terms 1

- Testes: The two male gonads
- Scrotum: Body of skin holding the testes. Regulates temperature of the testes. Sperm production is most successful at 35°C.
- Seminiferous Tubules: Site of sperm production.
- Sertoli Cells: Found within the seminiferous tubules and provide nourishment for developing sperm.
- Epididymis: Located near the testes and is a place in which sperm mature into motile
- Ductus Deferens: Storage place for mature sperm. It leads to the penis via the ejaculatory duct.

Male anatomy terms 2

- Semen passes through the ejaculatory duct on it's way to the urethra.
- Seminal Vesicles: Produce a mucus energy rich fluid that contains fructose.
- Prostate gland and Cowper's gland: Secrete an alkaline fluid to neutralize the acid fro urine
- Semen: The combination of sperm and fluid. Movement is controlled by parasympathetic and sympathetic nervous syste control and syr
- Urethra: A duct the carries semen through the penis. It also serves as a passage for urine.

Male hormones

Y chromosome carries 'testis-determining factor', (TDF), which triggers male sex hormones called androgens.

Androgens stimulates production of male sex organs in fetus.

Testes develop first in abdominal cavity, then descend toward scrotum and finish at birth.

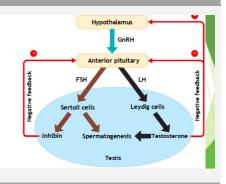
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about 300-500/day

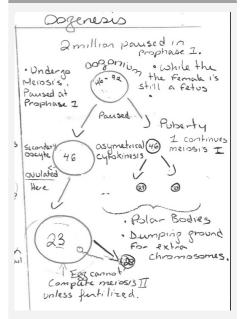
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Spermatogenisis Diagram







Female anatomy



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Female anatomy terms 1

- <u>Uterus</u>: A muscular organ that hold nourishes a developing fetus.
- Endometrium: Lining of the uterus that supplies the developing fetus with nutrie This is also the source of menstruation
- Cervix: Narrow opening at the base of uterus.
- Vagina: Entrance for penis to deposit se
 Vubas External portion of the varian
- <u>Vulva</u>: External portion of the vagina consisting of the labia majora and the labia minora.
 <u>Glans Clitoris</u>: site of arousal during intercourse.

Female anatomy terms 2



Contest: The site of cogenesis. Produce an ovum or cocytes. Alternate each month. Einbrias: "Sweeping" thread that tack the ovum a ovulation and guide tack the ovum at ovulation and guide tack of the failing of the thread of the second Endometrium. Inner lining of the there. Site of avorate implantation.

Female Hormone Regulation

Menstrual cycle regulates hormones and releases an ovum at optimal time.

Cycle lasts about 28 days and includes two events, ovarian cycle and uterine cycle.

Ovarian Cycle

1. Follicle (small bag) develops

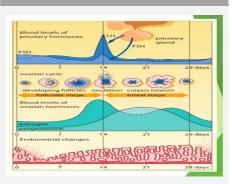
- 2. Ovum released
- 3. Corpus Luteum (yellow body) left behind
- 4. Corpus Luteum produces progesterone

5. Corpus Luteum disintegrates and produces a corpus albicans.

On a diagram, yellow round bodies appear, and as the cycle progresses they get smaller. Corpus albicans is the smallest.

By tessasydneyy

Ovarian Cycle Hormones



Human Chorionic Gonadotropin (hCG)

Maintains the corpus luteum.	Remains at high levels for two months then decreases by four months.
Corpus luteum is maintained for the duration of the pregnancy.	Placenta secretes estrogen and proges- terone for the remainder of
	pregnancy.

Female Hormone Pathway

Anterior Pituitary -> Luteinizing Hormone		
(LH) and Follicle Stimulating Hormone		
(FSH)		
LH:		
Target: Ovary		
Effect: Causes ovulation		
After ovulation, corpus luteum develops and		
secrets progesterone (endometrium		
thickening and maintaining) and Estrogen		
(endometrium thickening + secondary sex		
characteristics)		
FSH:		
Target: Ovary/Follicle		
Effect: Stimulate follicle cells to develop		
Follicle cells secrete estrogen (endom-		
etrium thickening, secondary sex character-		
istics).		

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Male hormone pathway

Luteinizing hormone	Follicle Stimulating Hormone
Target: Leydig cell, inters- titial cell	Target: Sertoli Cells
Effect: Testosterone (secondary sex character- istics, suppert spermatge- nesis)	Effect: Spermatog- ensis
	* <i>Effect</i> : Inhibin (inhibits FSH production)

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