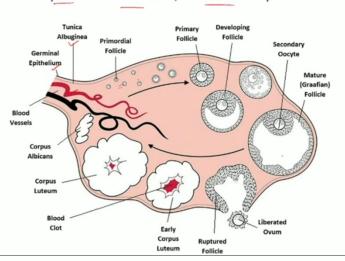


Testes Ovaries

Ovaries

• A pair of small sized, almond-shaped.

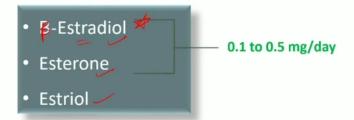


Endocrine part

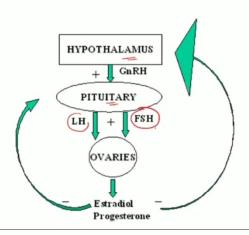
- Estrogen
- Progesterone
- Relaxin

Estrogen

- Steroid hormone
- Secreted by follicular epithelial cells of membrane granulosa of graafian follicle
- Also secreted by Leydig's cells of testes, adrenal cortex and placenta.



Control on secretion



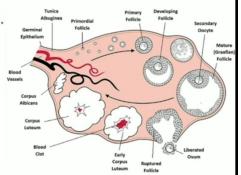
Functions

- Control the growth and development of female secondary sex organs
- Stimulates the development of female secondary sexual characters
- Development of sexual desire.
- Retardation of growth rate due to uniting the epiphyses with the shafts of the long bones.
- Increase the level of glycogen in the endometrial cells.
- Decrease (FSH) secretion but increase LH secretion.

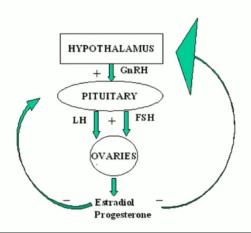


- Steroid hormone
- Secreted by yellow endocrine gland, corpus luteum, formed from empty graafian follicle during pregnancy.

Also secreted by adrenal cortex and placenta.



Control on secretion



Functions

- Proliferation of endometrium
- Desensitizes the uterine muscles to the action of oxytocin so called antiabsorption hormone.
- Help in implantation, placenta formation and normal development of the foetus in the uterus.
- Suspends ovulation during pregnancy as suspended LH secretion.
- Stimulates proliferation of mammary glands.

Functions

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- Help in implantation, placenta formation and normal development of the foetus in the uterus.
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- Stimulates proliferation of mammary glands.
- Promotes the retention of Na salts and water through the renal tubules.

Relaxin

- Proteinous hormone /
- Secreted by corpus albicans.
- Its level is maximum during the terminal stage of human pregnancy and disappear within one day after delivery.

 Turks Albugines Printy Folicle Folicle

Functions

- Softens the pubic symphysis so widens the pelvis.
- Inhibits the contraction of uterine muscles.

Synthesis of ovarian hormones Progestins Progestins Androstenedione Progesterone Progesterone Synthesis of ovarian hormones Characteria (C19) Androstane (C19) Estrane (C18) Androstenedione Progesterone Hypogonadism

Eunuchoidism

- Infant-like sex organs, failure of development of secondary sexual characters, prolonged growth of long bones so causing increased height, etc.
- > Amenorrhea



(1) Hypergonadism

- Hypertrophy of the uterine endometrium
- Irregular bleeding from the endometrium

granulese cell