

HUMAN REPRODUCTION

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Key Points: Human Reproduction

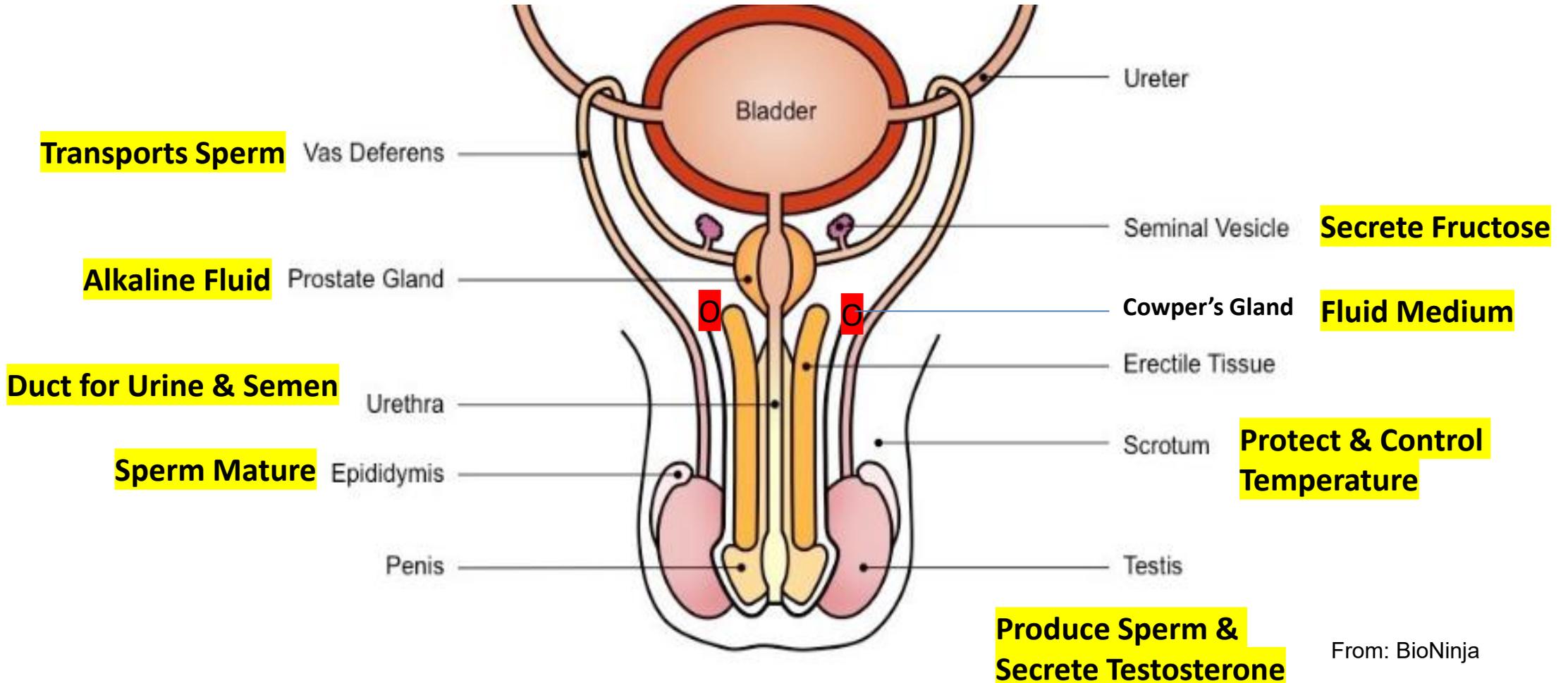
- Role of Meiosis, Fertilisation and Mitosis
- The Male System – Structure and Functions
- Female System – Structure and Functions
- Gametogenesis
- Diagrams of a Sperm cell and Ovum
- The Menstrual Cycle

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Male Reproductive System



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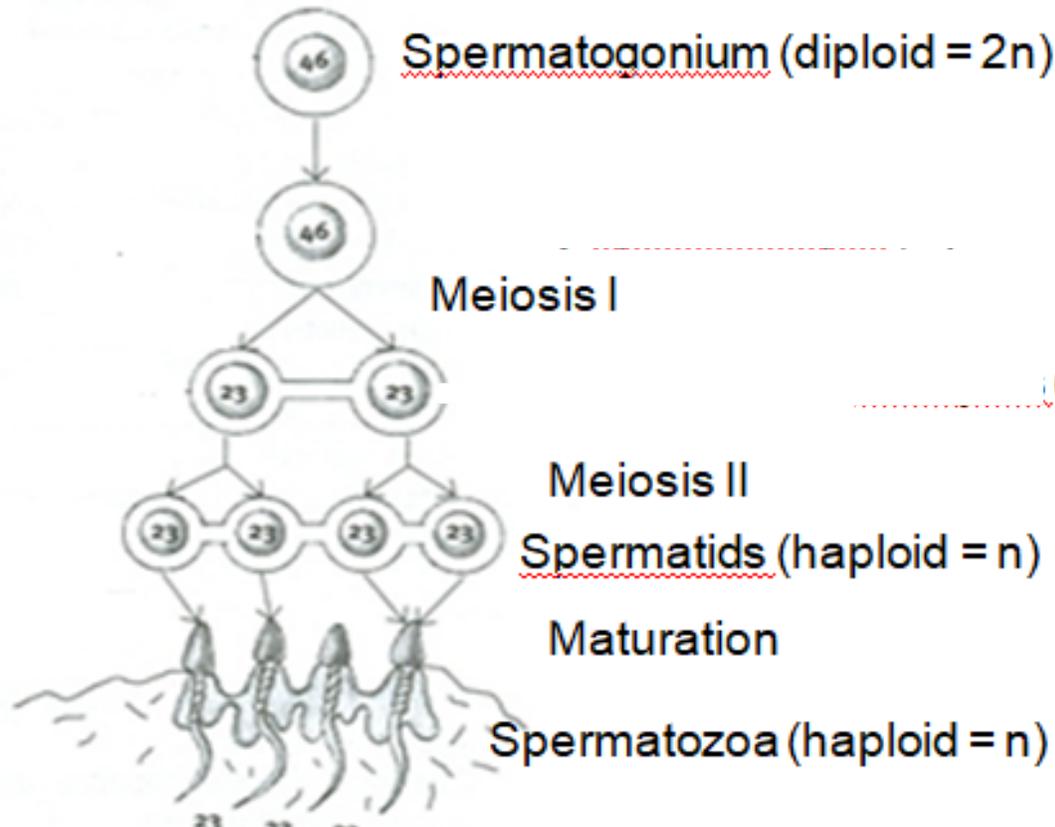
Male System – What are the Functions of ...?

- Testes
- Epididymis
- Vas Deferens
- Seminal Vesicles
- Prostate Gland
- Cowper's Gland
- Urethra

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Spermatogenesis

The major function of the testes is to produce sperm in a process called spermatogenesis



1. Under Influence of Testosterone
a Continuous Process from Puberty

2. Diploid Cells in Seminiferous Tubes

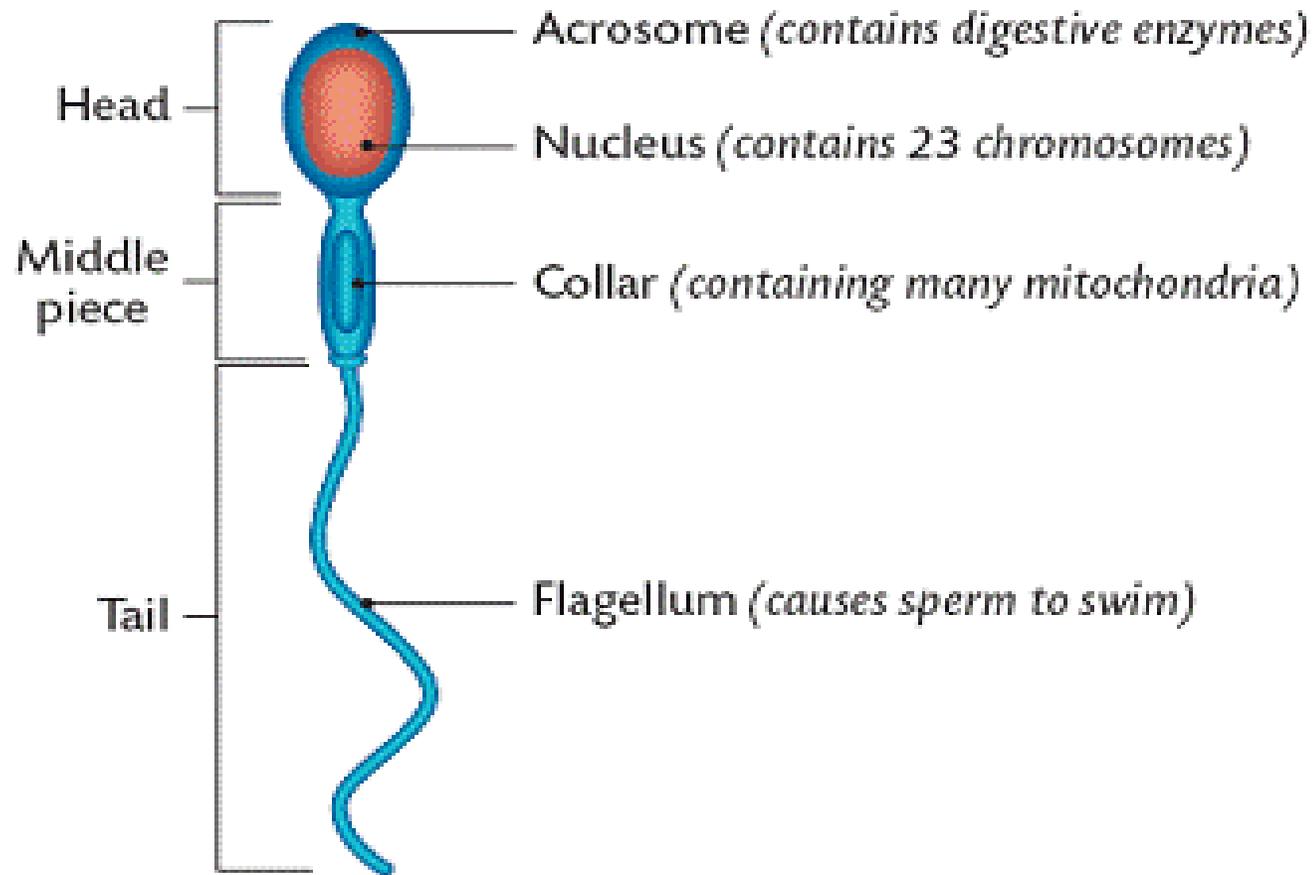
3. Undergo Meiosis

(haploid = n)

4. To Form Haploid Sperm Cells

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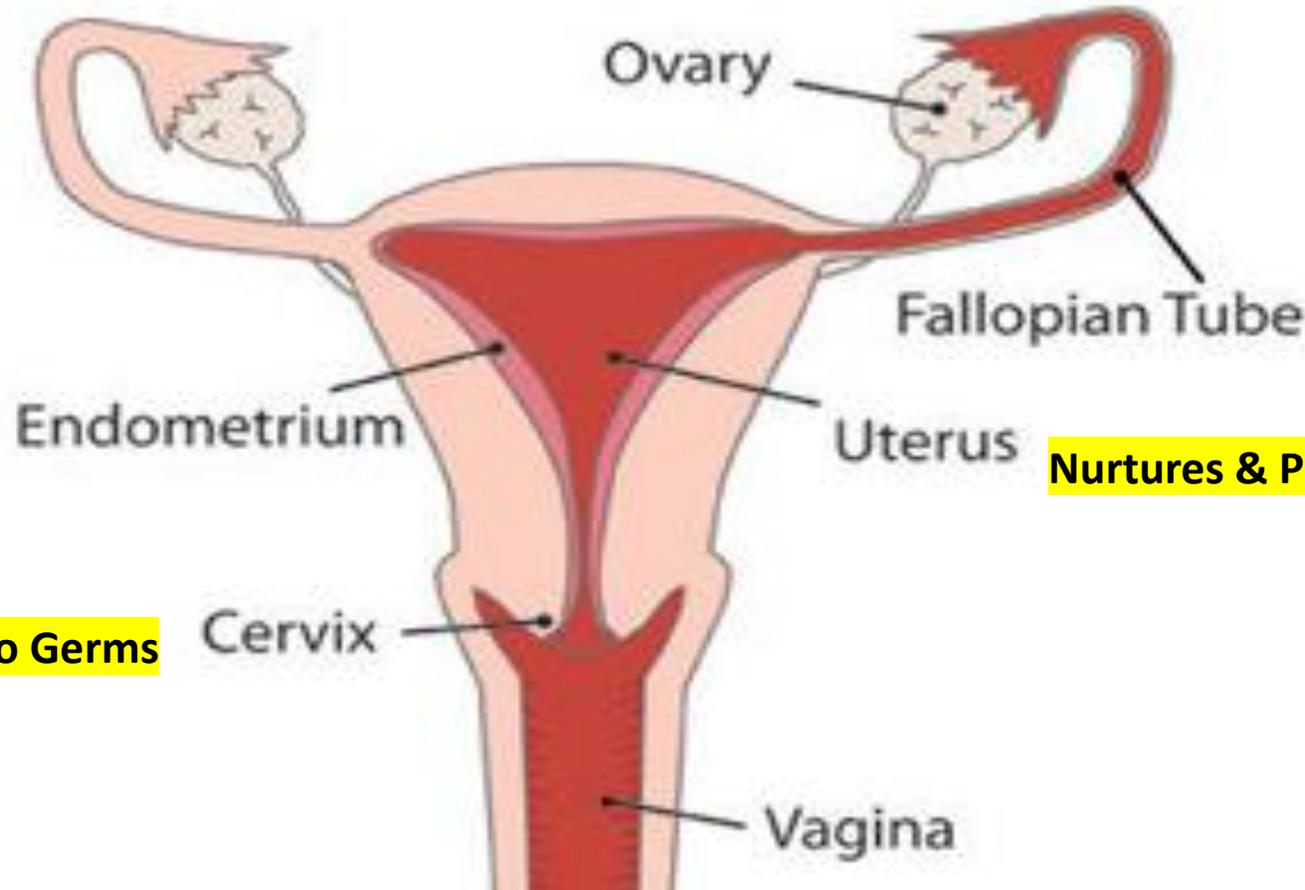
Human Sperm Cell



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Female Reproductive System

1. Produce Ova & Female Hormones – Oestrogen & Progesterone



Implantation of Embryo

Where Fertilisation Occurs

Nurtures & Protects the Foetus

Barrier to Germs

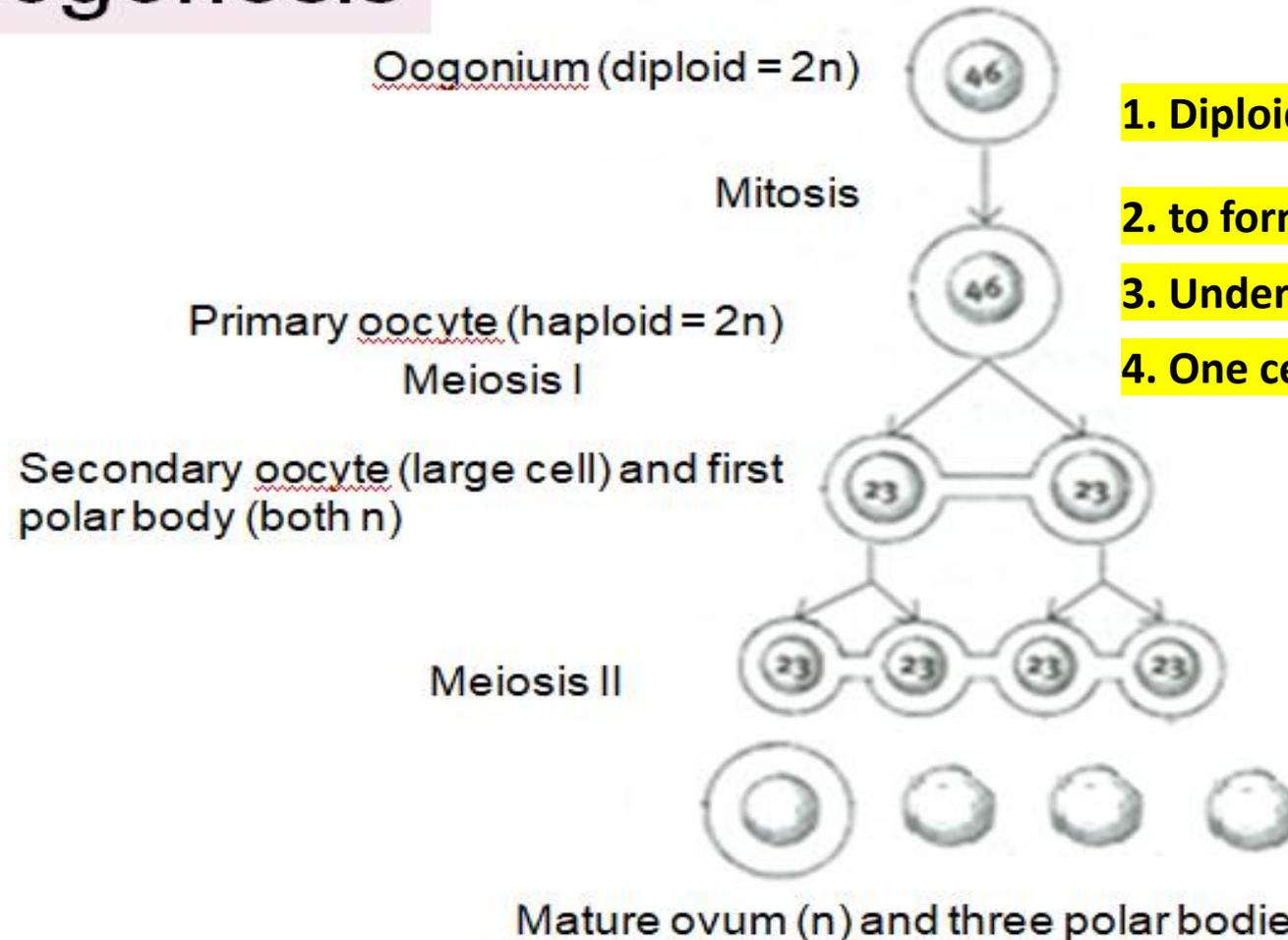
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Female System – What are the Functions of ...?

- Ovaries
- Fallopian Tubes
- Uterus
- Endometrium
- Cervix

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oogenesis



1. Diploid Cells in Ovary Undergo Mitosis

2. to form many follicles during puberty

3. Under the influence of FSH

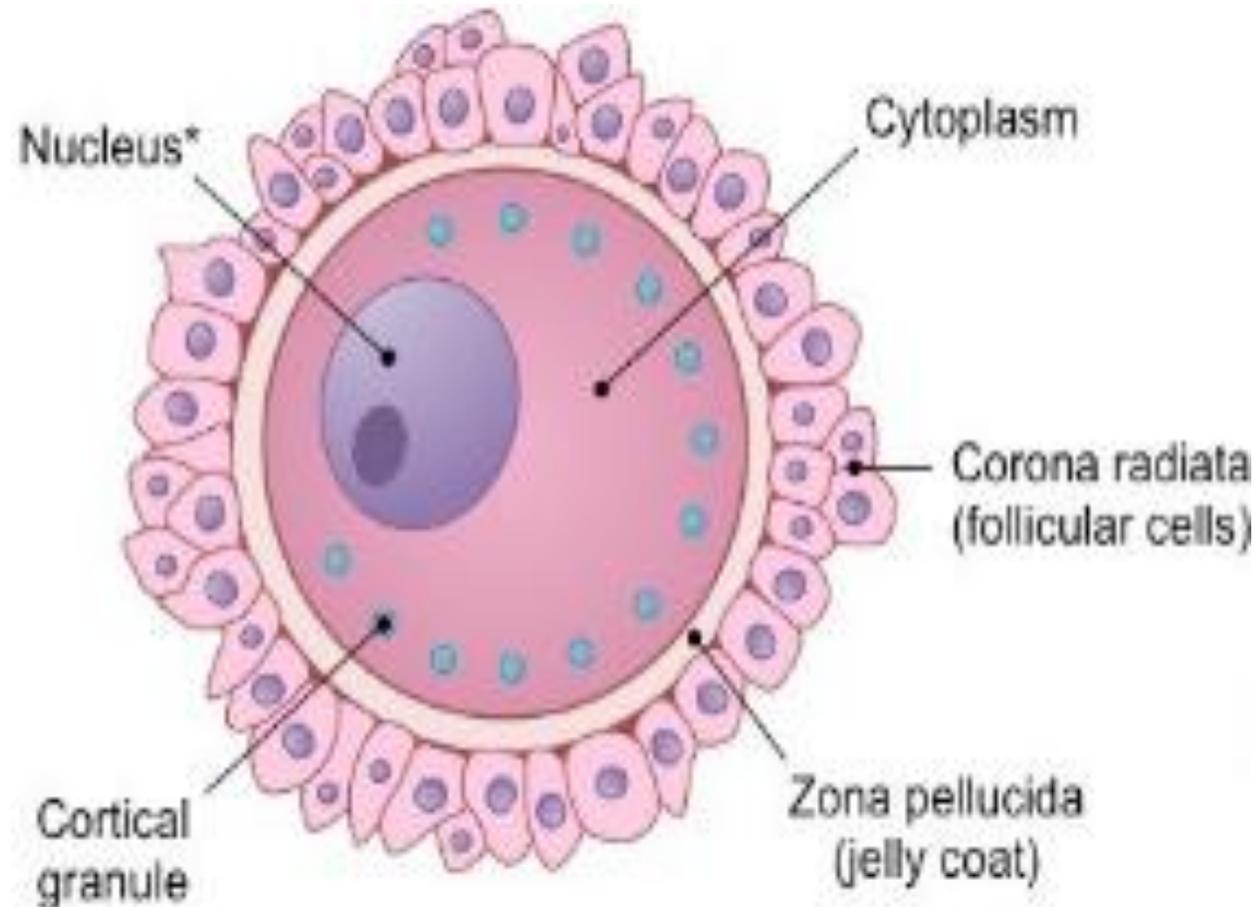
4. One cell in a follicle undergoes Meiosis

5. Of 4 cells produced, 1 becomes a mature haploid ovum

6. This occurs in a monthly cycle

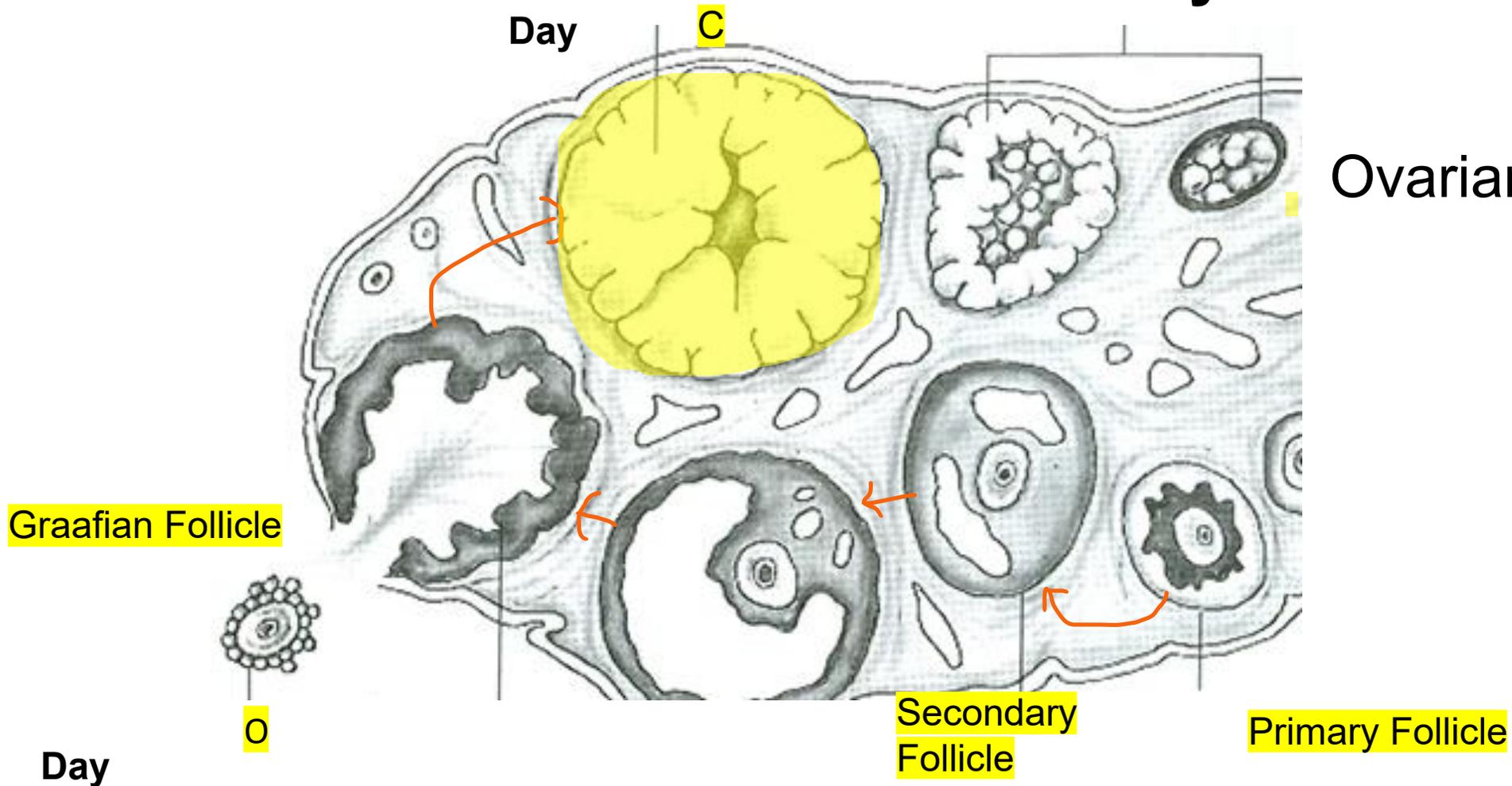
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Human Ovum



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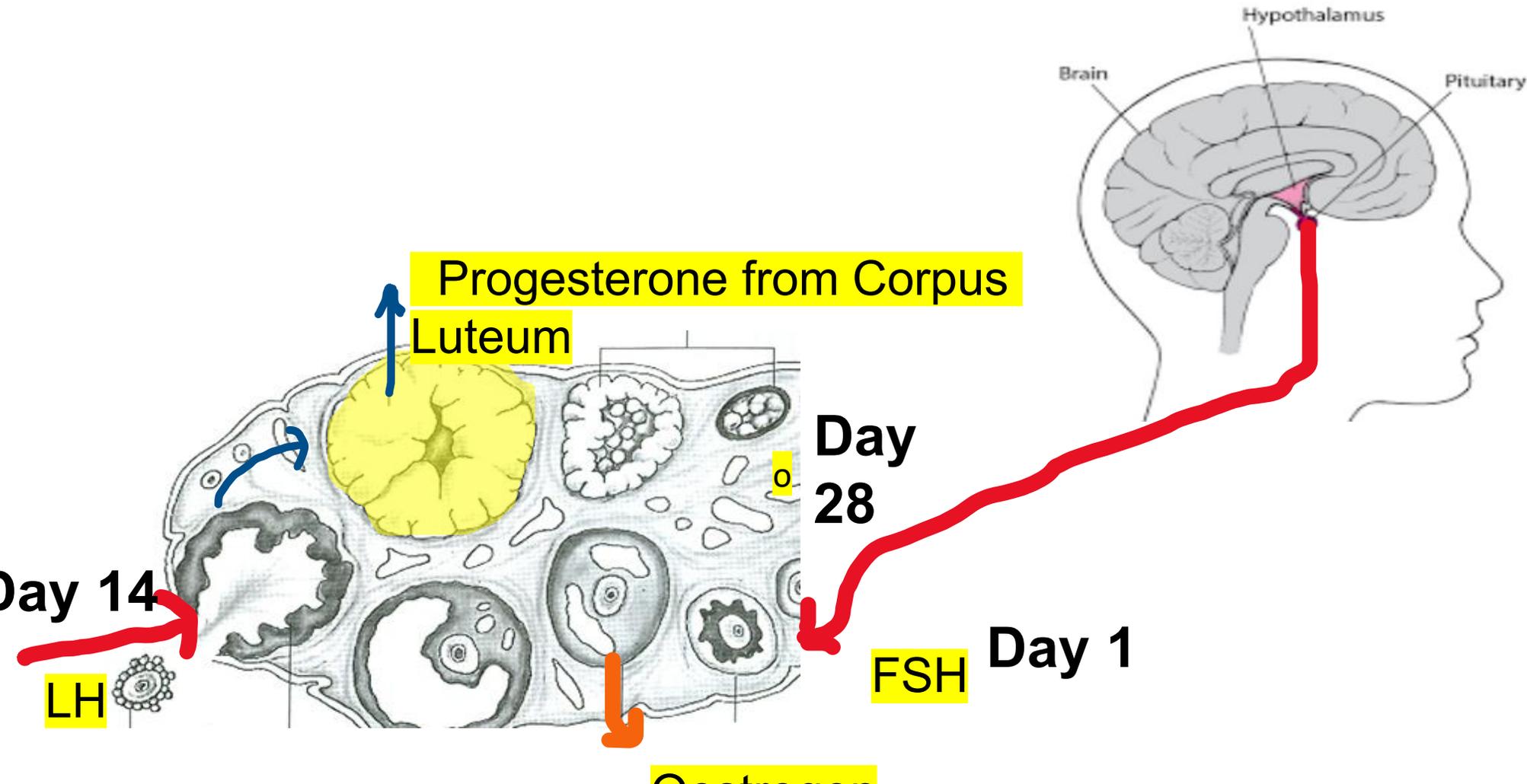
Internal structure of an Ovary



Ovarian Cycle – 28 days

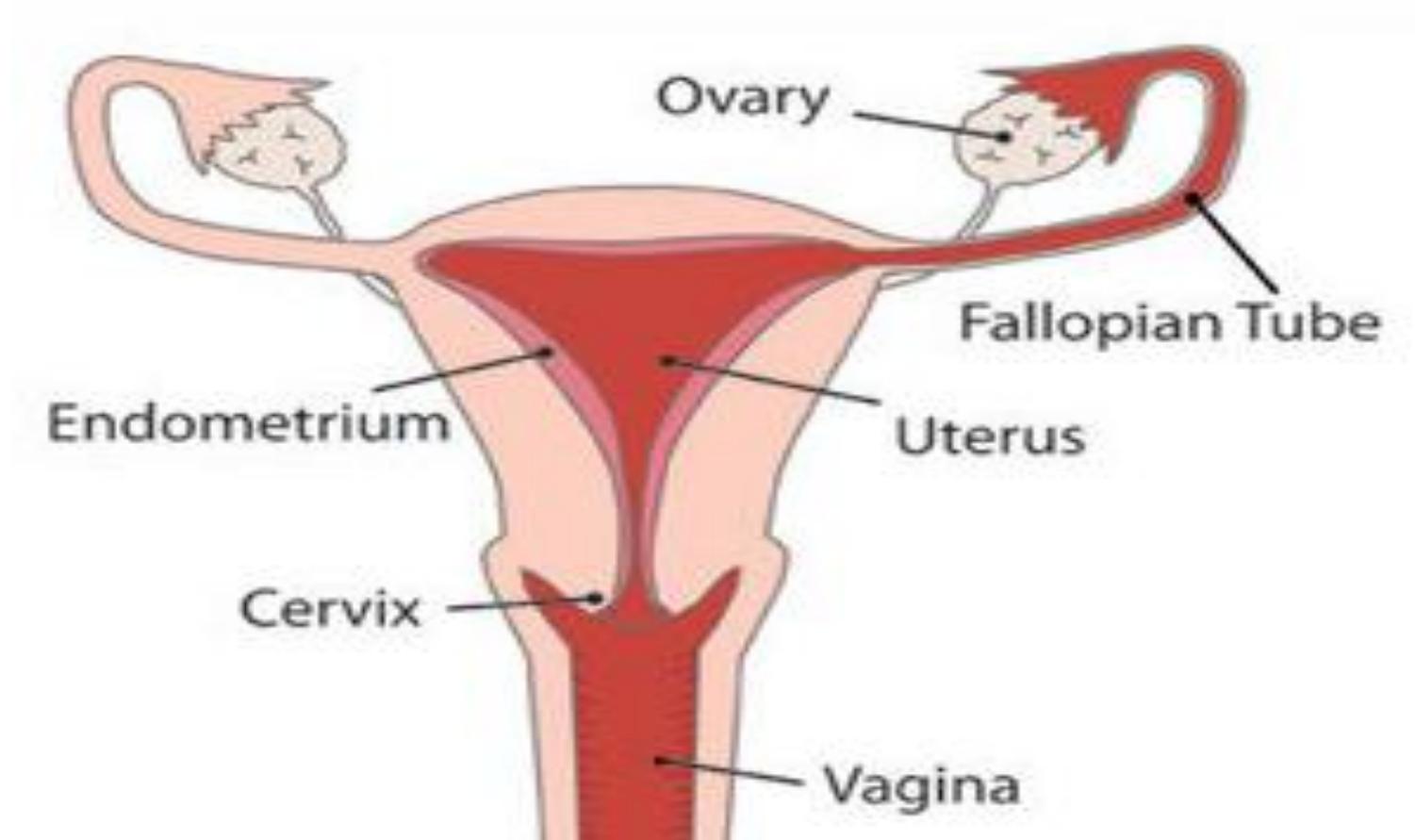
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Female Hormones during the Ovarian Cycle



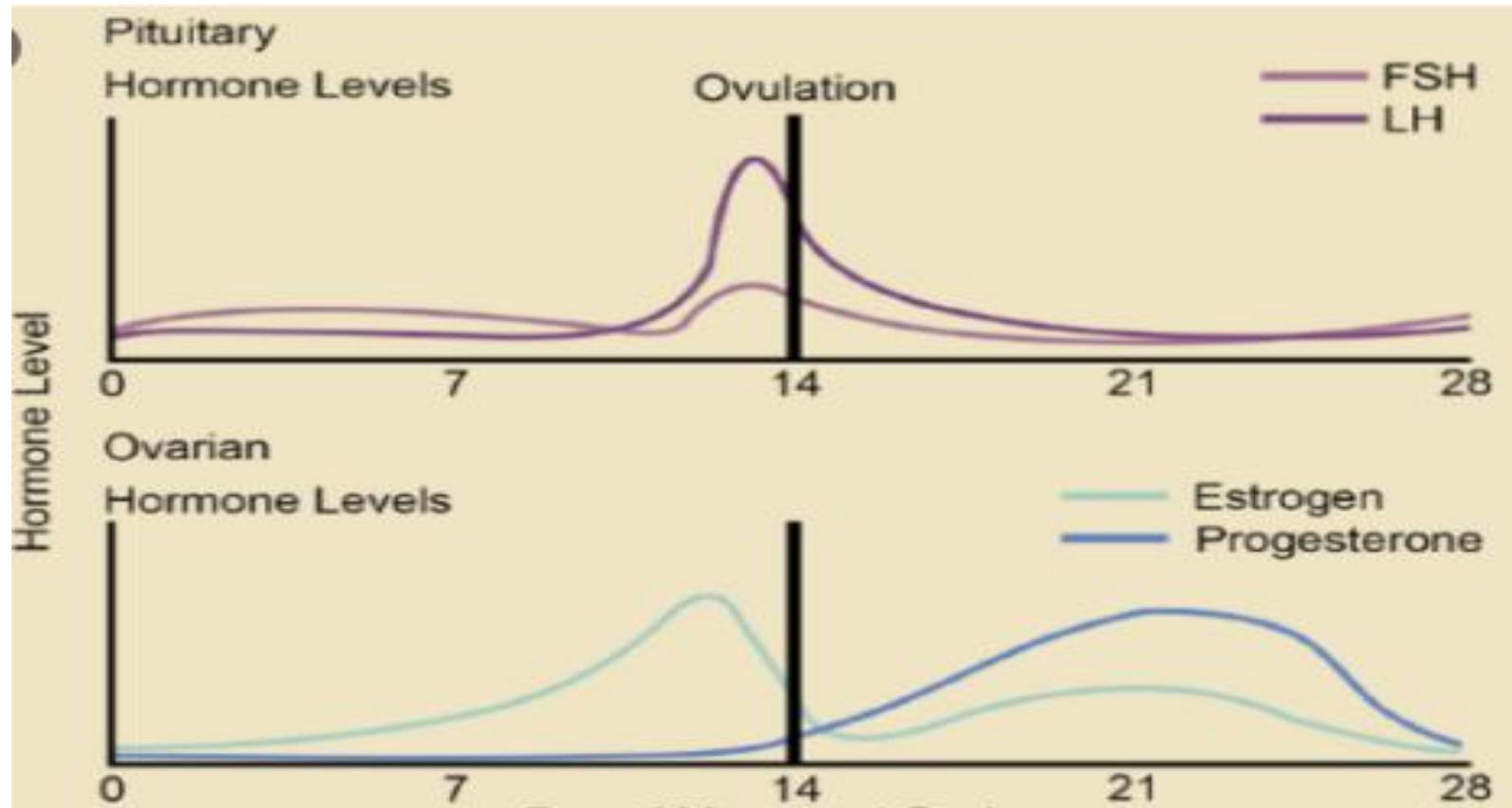
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Menstrual Cycle: The effect of Oestrogen and Progesterone on the Uterus every 28 days



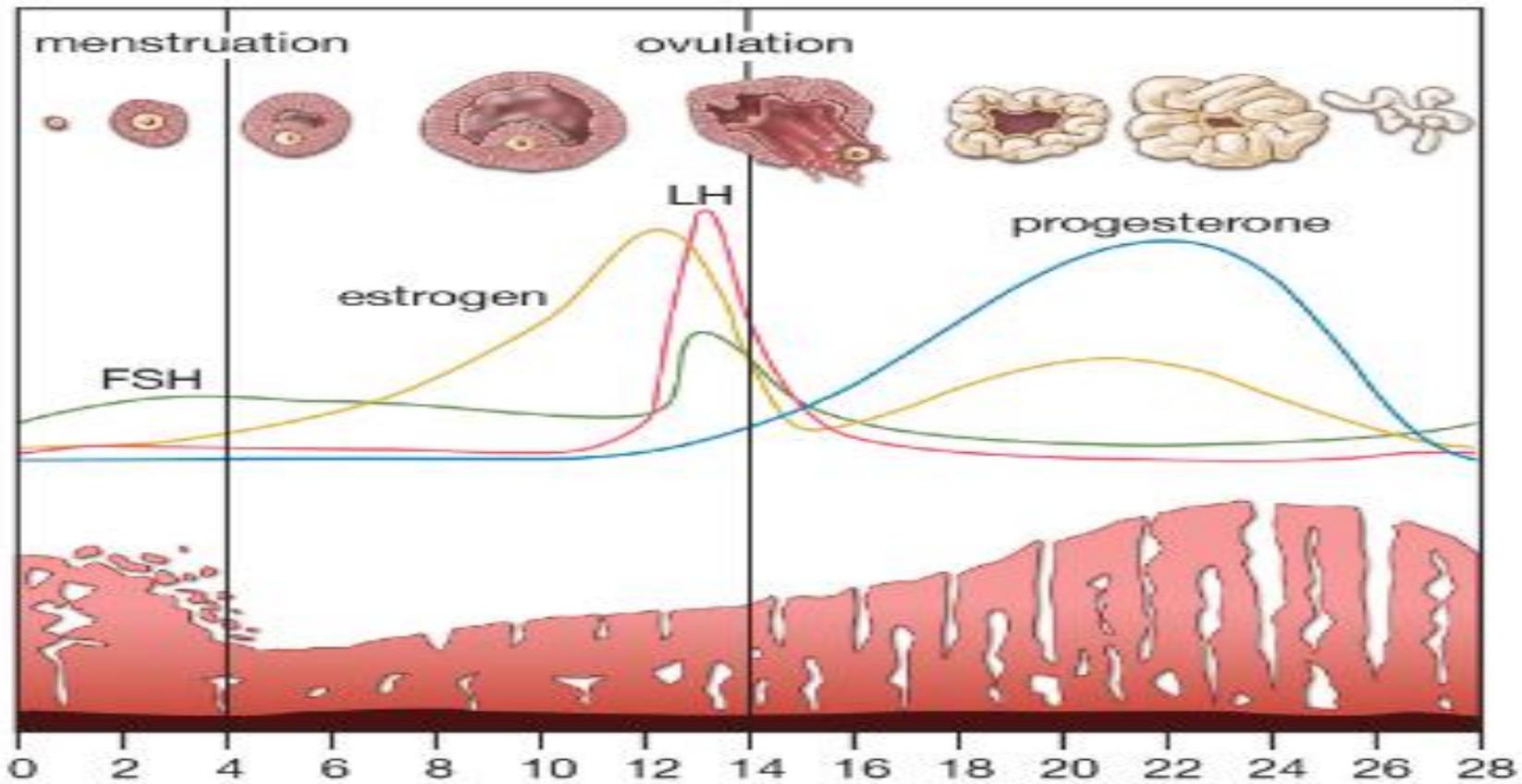
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Hormone Levels of the - 28 day - Menstrual Cycle



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Hormone Levels of the - 28 day - Menstrual Cycle



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