

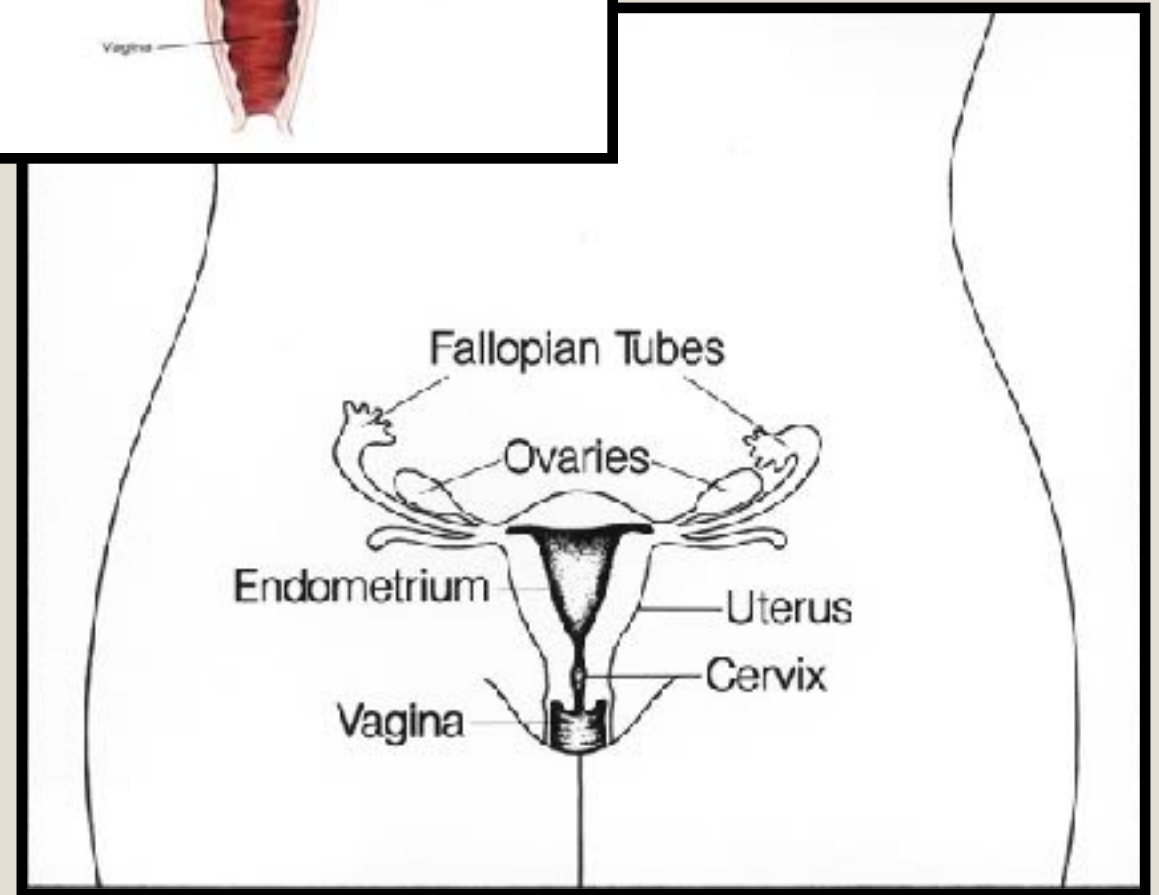
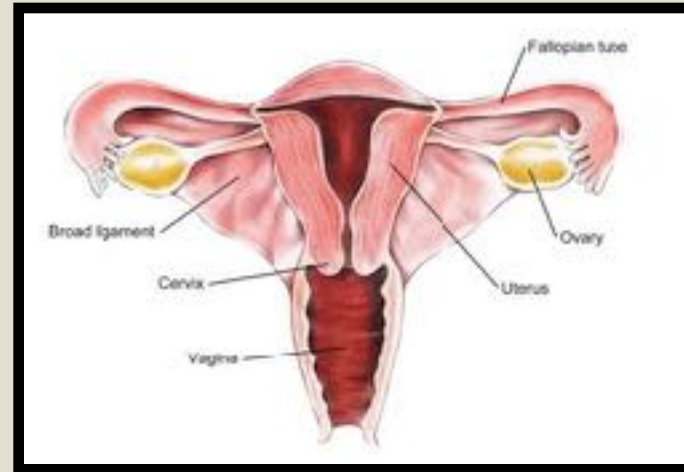


OVARIES

Ana, Dawn, Kamae

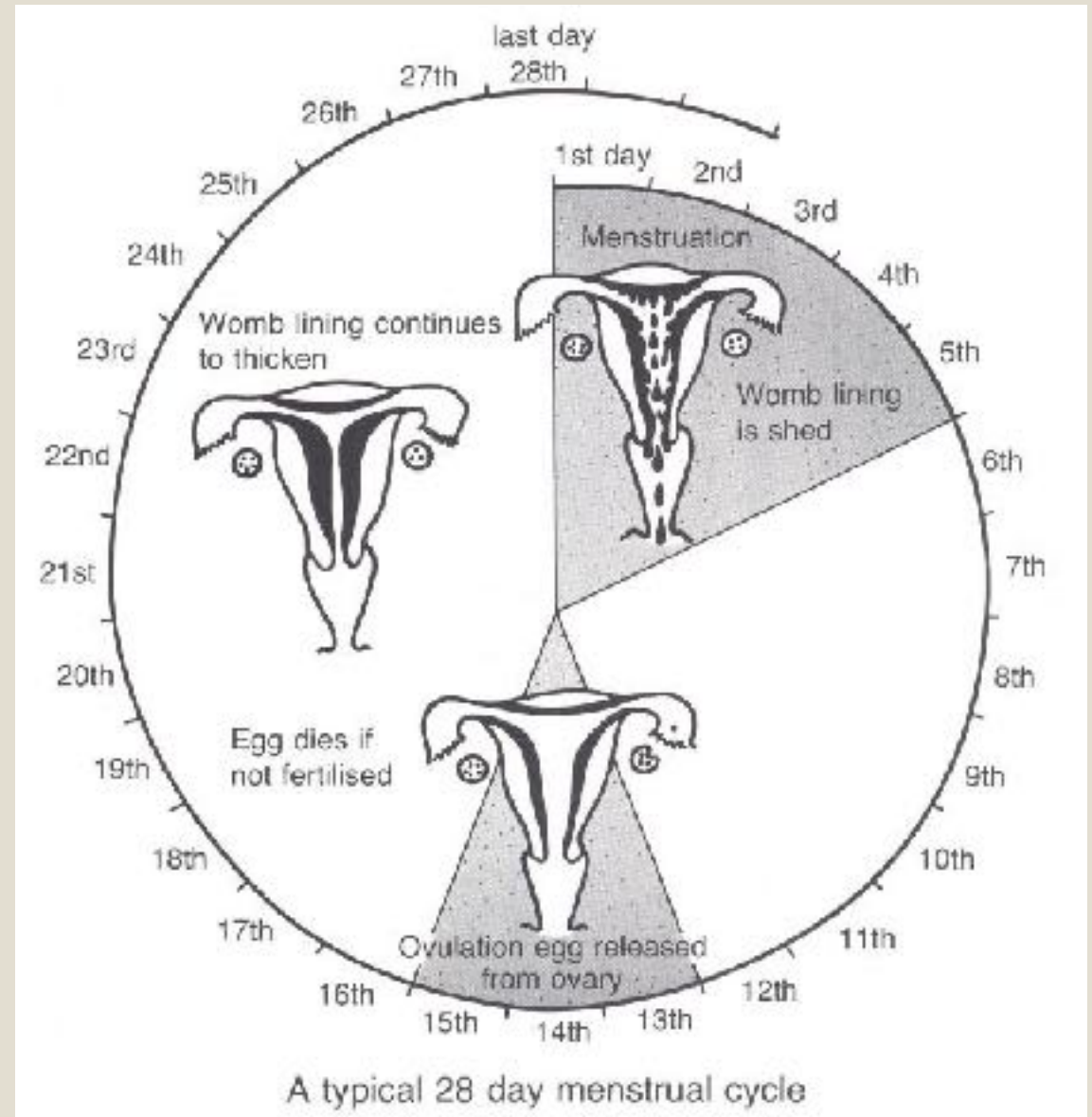
The Ovaries

- The Ovaries are located below the lower abdomen.
- This is why when women have ovarian pain, it is felt in the lower abdominal region.



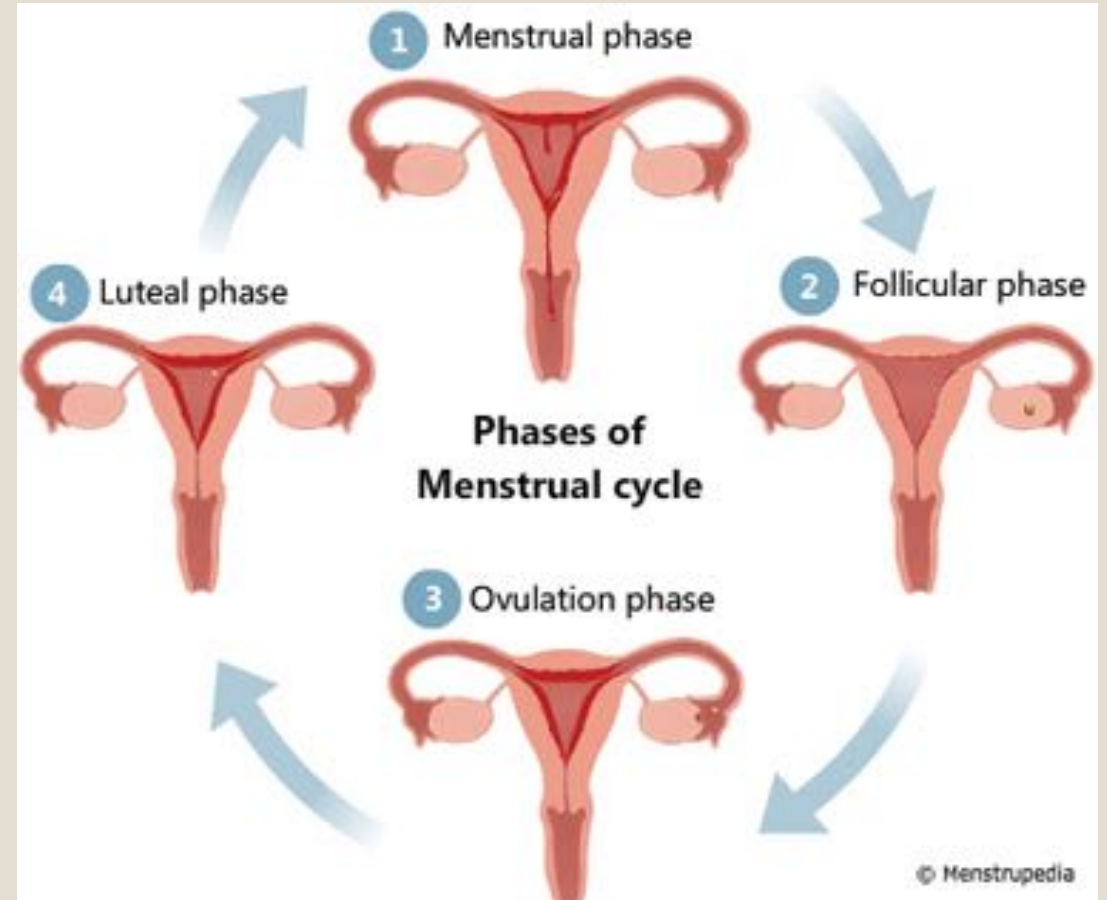
Hormones

- The main female sex hormones are estrogen and progesterone.
- Estrogen is produced by the ovary follicles, that is, by the developing ovules. (It is responsible for the development of the female secondary sexual characteristics and the control of the menstrual cycle)
- Progesterone promotes the secretory (luteal) phase of the menstrual cycle, preparation of the uterus for pregnancy and preparation of the breasts for lactation.



Target

- Like we mentioned before, ovaries produce two hormones: oestrogen and progesterone. Oestrogen targets the ovaries, uterus, and pituitary glands. Oestrogen maintains puberty and the menstrual cycle in females. Oestrogen also prompts the production of LH and FSH. FSH triggers the ovarian follicle which causes an egg to grow. LH causes an egg to be released from the ovary (this process is called ovulation). Progesterone targets the uterus, by managing the lining of the womb.



Functions

- Each month, during the menstrual cycle, an egg is released from one ovary.
- After the egg is released from the ovary it travels to the oviducts: the funnel-shaped ends of the fallopian tubes where the egg starts its multi-day voyage into the uterus.
- The mature egg is moved along its journey through the fallopian tubes by muscle contractions similar to ocean waves, in the fallopian tube.
- The internal lining of each fallopian tube has cilia, which are persistently thrashing microscopic hairs.
- If a woman has unprotected sexual intercourse during this time, the cilia help the sperm to get to the egg.
- The fertilization of an egg takes place in the part of the tubes that is nearest the ovary.
- It takes 5 to 6 days for the fertilized egg to reach the uterus

Disorders

- **Ovarian cancer:**

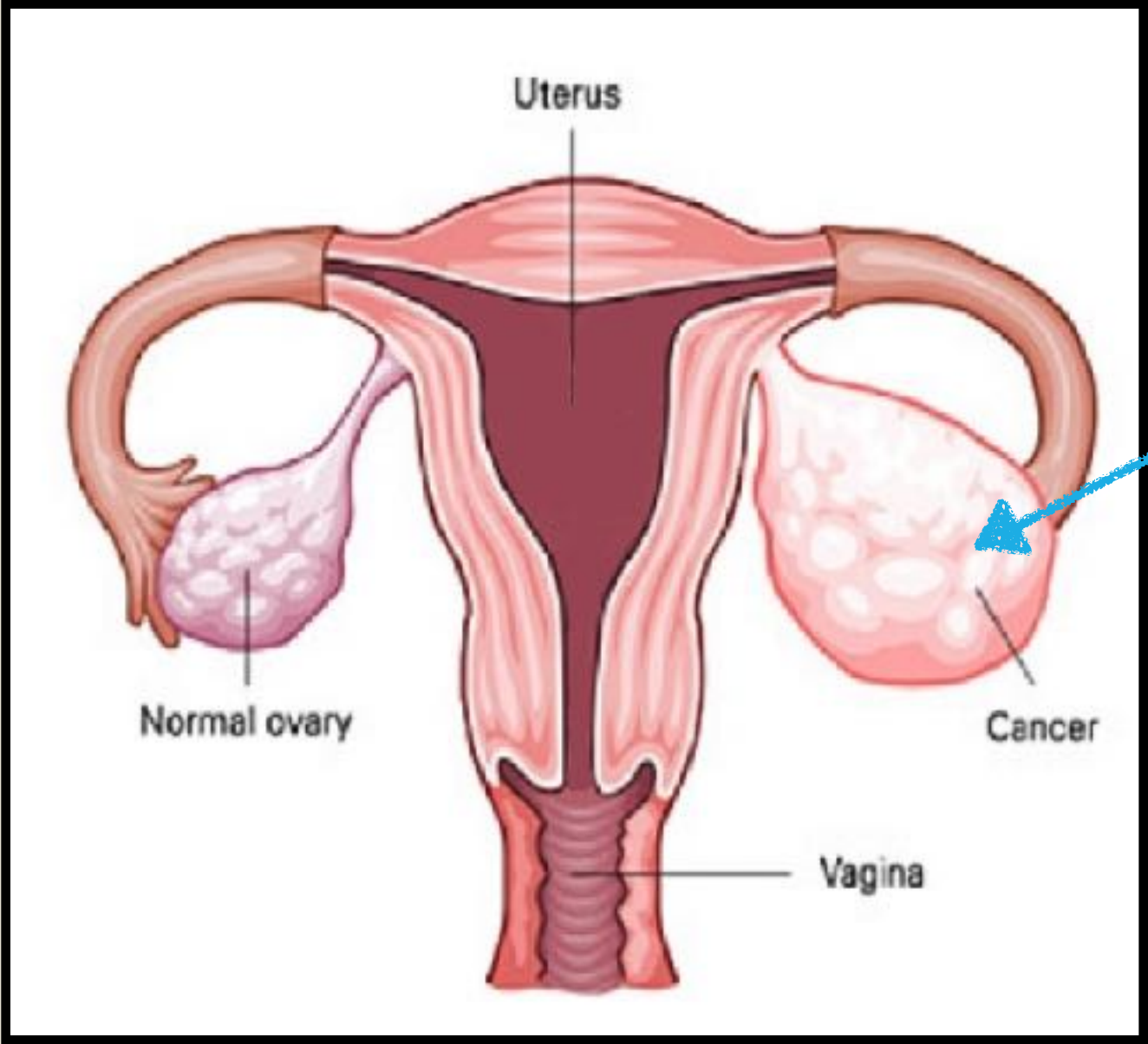
- Ovarian cancer refers to any cancerous growth that occurs in the ovary. When abnormal cells in the ovary begin to multiply out of control, they form a tumor.

- **Ovarian cysts and polycystic ovary syndrome:**

- Polycystic ovarian syndrome, or PCOS, is a condition in which a woman's levels of the sex hormones estrogen and progesterone are out of balance. This leads to the growth of ovarian cysts (benign masses on the ovaries). PCOS can cause problems with a woman's menstrual cycle, fertility and cardiac function.

- **Premature ovarian failure:**

- Premature ovarian failure (POF) is when a woman's ovaries stop working before she is 40. POF is different from premature menopause. With premature menopause, your periods stop before age 40 and you can no longer get pregnant. The cause can be natural or it can be a disease, surgery, chemotherapy, or radiation. With POF, some women still have occasional periods and they may even get pregnant. In most cases of POF, the cause is unknown.





THANKS FOR
LISTENING!