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Department::Nursing science

Matric no\_:18/mhs02/161

Course: physiology

**Answer**

(1A).**The cyclic changes in cervix**

Cyclic changes in cervix

Mucosa of uterine cervix does not undergo cyclic desquamation as the body of uterus

regular changes in cervical mucus under influence:

1. estrogens (ovulation) mucus thinner and more alkaline - promotion of survival and transport of sperm, spinnbarkeit at ovulation

2. progesterone (after ovulation, during pregnancy) mucus thick, tenacious, cellular

But the **cyclic changes** in the **cervix** are not limited to the function of the glandular structures and to the physicochemical properties of the **cervical** mucus. The diameter of the **cervical** canal also undergoes **cyclic changes** and is larger during the proliferative phase than during the secretory phase.

(2C).**The cyclic changes in breast**

* These hormones are believed to be responsible for the cyclical changes that many women feel in their breasts just before menstruation. These include swelling, pain, and soreness. During menstruation, many women also have changes in breast texture. Their breasts may feel very lumpy.
* Once ovulation and menstruation begin, the maturing of the breasts begins with the formation of secretory glands at the end of the milk ducts. The breasts and duct system continue to grow and mature, with the development of many glands and lobules. The rate at which breasts grow is different for each young woman.
* Each month, women go through changes in the hormones that make up the normal menstrual cycle. The hormone estrogen is produced by the ovaries in the first half of the menstrual cycle. It stimulates the growth of milk ducts in the breasts. The increasing level of estrogen leads to ovulation halfway through the cycle. Next, the hormone progesterone takes over in the second half of the cycle. It stimulates the formation of the milk glands. These hormones are believed to be responsible for the cyclical changes that many women feel in their breasts just before menstruation. These include swelling, pain, and soreness.
* During menstruation, many women also have changes in breast texture. Their breasts may feel very lumpy. This is because the glands in the breast are enlarging to get ready for a possible pregnancy. If pregnancy does not happen, the breasts go back to normal size. Once menstruation starts, the cycle begins again.

**(2A)The menstrual cycle**

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