The *Science* of your Cycle

Day 3: Get to know your cycle (Part I)



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Today's goals

- → Learn how your hormones work together to create the changes that happen during the first two phases of the menstrual cycle
- → Understand what "vaginal discharge" REALLY is and why it's important for your health
- → Understand why pregnancy is only possible during certain parts of your menstrual cycle
- → Learn that your body is AMAZING and WONDERFUL (even if it doesn't always feel that way)

Day 2 recap

- → FSH stimulates the development of follicles (egg sacs)
- → LH triggers ovulation
- → Estrogen creates changes in the cervix
- → Progesterone prepares the uterus for pregnancy, counteracts estrogen, and heats up the body
- → Changes in estrogen and progesterone levels are triggered by changes in FSH and LH.

Why we're learning this...

- → We're led to believe that our cycles are mysterious & unpredictable (they're NOT unpredictable…even if they're irregular!)
- → We're taught that we have **no control** over how painful, irregular, or problematic our periods are (we DO have control)
- → We think our periods show up when they want and there's no way to know when they're coming (this is FALSE, even for irregular cycles)
- → We're taught that we can get pregnant any day, any time (we can't)

Keep in mind

- → Your body's goal is to reproduce (how RUDE and presumptuous!)
- → Your menstrual cycle is made up of TWO cycles (it's true!)
 - Uterine cycle changes to the uterus during a single cycle
 - Ovarian cycle changes within the ovaries during a single cycle
- → The vagina is naturally acidic (which keeps it healthy), but this acidity makes it impossible for sperm to survive
- → If you use hormonal contraception, you do **not** experience a true menstrual cycle

An overview of your cycle

- Menstruation We'll cover these today
 Follicular phase We'll cover these today
- 4. Luteal phase

Menstruation (aka your period)

- → The first day marks the start of the menstrual cycle (not the end)
- → It's part of the uterine cycle
- → It's when the lining of the uterus sheds because a pregnancy did not occur during the previous menstrual cycle
- → It typically lasts for 5–7 days

Follicular phase overview

- → It's part of the **ovarian** cycle
- → It's dominated by the hormone estrogen
- → It varies in length from cycle to cycle
- → It's sensitive to external factors like stress, diet, exercise, sleep, etc.

What happens during the follicular phase?

- 1. The pituitary gland makes FSH
- 2. Follicles make estrogen
- 3. Estrogen changes the cervix

1. The pituitary gland makes FSH

- → The pituitary gland (in your brain) makes FSH (which stands for Follicle Stimulating Hormone)
- → FSH, as its name implies, stimulates the development of a handful of follicles inside the ovaries
- → Follicles are tiny sacs that each contain an immature egg

The pituitary gland makes FSH, which causes immature eggs to grow and develop.

2. Follicles make estrogen

- → FSH stimulates follicles (or immature egg sacs) to grow
- → Growing follicles make and release the sex hormone estrogen
- → The bigger the follicles get, the more estrogen they make

Growing follicles make increasing amounts of estrogen.

3. Estrogen changes the cervix

- → The bigger the follicles get, the more estrogen they make
- → Estrogen triggers the cervix (the lower part of the uterus) to produce a special sperm-friendly fluid called **cervical fluid**
- → Cervical fluid keeps sperm alive in the acidic vaginal environment
 - ◆ It is thick and tacky when estrogen is low and becomes clear and slippery (like raw egg white) when estrogen is high
- → Slippery cervical fluid can keep sperm alive in the female reproductive tract for up to 5 days

As estrogen production increases before ovulation, cervical fluid progresses from thick and tacky to clear and slippery to help sperm reach the egg.

Day 3 Summary

- → Menstruation is the shedding of the uterine lining
- → The vagina's default mode is an acidic, sperm-killing machine
- → Growing follicles make estrogen that triggers cervical fluid production
- → Cervical fluid becomes increasingly wet and slippery before ovulation, allowing sperm to survive and reach the egg
- → Cervical fluid allows sperm to stay alive inside the female reproductive tract

When your vagina sees sperm:



YOUR BODY IS DOPE.