

Which Hormones Regulate Menstrual Cycle

Luteinizing hormone It acts synergistically with follicle-stimulating hormone (FSH). Luteinizing hormone (LH, also known as luteinising hormone, lutropin and sometimes lutrophin) is a hormone produced by gonadotropic cells in the anterior pituitary gland. In males, where LH had also been called interstitial cell stimulating hormone (ICSH), it stimulates Leydig cell production of testosterone. In females, an acute rise of LH known as an LH surge, triggers ovulation and development of the corpus luteum. The production of LH is regulated by gonadotropin-releasing hormone (GnRH) from the hypothalamus. 1 (1). Wikijournal of Medicine 834298ded8

Hypothalamic-pituitary-gonadal axis Because these glands often act in concert, physiologists and endocrinologists find it convenient and descriptive to speak of them as a single system. The ovaries produce estrogen and inhibin and to regulate the menstrual cycle and ovarian cycle. Estrogen forms a negative feedback loop by inhibiting The hypothalamic-pituitary-gonadal axis (HPG axis, also known as the hypothalamic-pituitary-testicular/ovarian axis) refers to the hypothalamus, pituitary gland, and gonadal glands as if these individual endocrine glands were a single entity 834298ded8

Follicular phase They are released by pulsatile secretion. The proliferative phase, is the phase of the estrous cycle (or, in primates for example, the menstrual cycle) during which follicles in the ovary mature from primary The follicular phase, also known as the preovulatory phase or proliferative phase, is the phase of the estrous cycle (or, in primates for example, the menstrual cycle) during which follicles in the ovary mature from primary follicle to a fully mature Graafian follicle. It ends with ovulation. The duration of the follicular phase can differ depending on the length of the menstrual cycle while the luteal phase typically lasts around 14 days. The main hormones controlling this stage are secretion of gonadotropin-releasing hormones, which are follicle-stimulating hormones and luteinising hormones 834298ded8

Follicle-stimulating hormone Follicle-stimulating hormone is typically measured in the early follicular phase of the menstrual cycle, typically day three to five, counted Follicle-stimulating hormone (FSH) is a gonadotropin, a glycoprotein polypeptide hormone. FSH is synthesized and secreted by the gonadotropic cells of the anterior pituitary gland and regulates the development, growth, pubertal maturation, and reproductive processes of the body. FSH and luteinizing hormone (LH) work together in the reproductive system. spermatogenesis 834298ded8

== Etymology == 834298ded8 == Overview == 834298ded8

Menstruation The menstrual cycle is characterized by the rise and fall of hormones. Menstruation is triggered by falling progesterone levels, and is a sign that pregnancy has not occurred. Feminine hygiene products are used in order to maintain hygiene during menses. The menstrual cycle is characterized by the rise and fall of hormones. lining of the uterus through the vagina. Menstruation is triggered by falling progesterone Menstruation (also known as a period, among other colloquial terms) is the regular discharge of blood and mucosal tissue from the inner lining of the uterus through the vagina 834298ded8

Hormonal contraception In the ensuing decades, many other delivery methods have been developed. Hormonal contraception is highly effective: when taken on the prescribed schedule, users of steroid hormone methods experience pregnancy rates of less than 1% per year. Currently available methods can only be used by women; the development of a male hormonal contraceptive is an active research area. The oral and injectable methods are by far the most popular. 3% rate or less. menorrhagia to help regulate menstrual cycles and prevent prolonged menstrual bleeding. Almost all methods are composed of steroid hormones, although in India one selective estrogen receptor modulator is marketed as a contraceptive. The original hormonal method—the combined oral contraceptive pill—was first marketed as a contraceptive in 1960. Perfect-use pregnancy rates for most hormonal contraceptives are usually around the 0. The hormonal IUD (Mirena) releases levonorgestrel, which thins the uterine Hormonal contraception refers to birth control methods that act on the endocrine system 834298ded8

In oviparous organisms (e.g. fish, reptiles, amphibians, birds), the HPG axis is commonly referred to as the hypothalamus-pituitary-gonadal-liver axis (HPGL-axis) in females. Many egg-yolk... 834298ded8

Menstrual synchrony Although no scientific evidence has been found to support this theory, the (supposed) phenomenon was dubbed "the McClintock effect" or the "Wellesley effect" (named for the college where it reportedly occurred). The menstrual synchrony theory of psychologist Martha McClintock proposes that living together would tend to synchronize the menstrual cycles of women The menstrual synchrony theory of psychologist Martha McClintock proposes that living together would tend to synchronize the menstrual cycles of women. McClintock's paper in *Nature* proposed that social interaction could affect the menstrual cycle, but her study had methodological flaws and other published studies failed to find synchrony 834298ded8

Menstrual cycle Menarche (the onset of the first period) usually occurs around the age of 12 years; menstrual cycles continue for about 30–45 years. The uterine cycle governs the preparation and maintenance of the lining of the uterus (womb) to receive an embryo. The menstrual cycle is a series of natural changes in hormone production and the structures of the uterus and ovaries of the female reproductive system The menstrual cycle is a series of natural changes in hormone production and the structures of the uterus and ovaries of

the female reproductive system that makes pregnancy possible. These cycles are concurrent and coordinated, normally last between 21 and 35 days, with a median length of 28 days. The ovarian cycle controls the production and release of eggs and the cyclic release of estrogen and progesterone 834298ded8

Polymenorrhagia can result from a variety of underlying medical conditions. Common causes include hormonal imbalances, particularly related to estrogen and progesterone levels, as well as thyroid disorders and ovulatory dysfunction. Other contributing factors may include uterine abnormalities, such as fibroids, endometrial polyps, and adenomyosis. 834298ded8 Naturally occurring hormones drive the cycles; the cyclical rise and fall of the follicle stimulating hormone prompts the production and growth of oocytes (immature egg cells). The hormone estrogen stimulates the uterus lining (endometrium) to thicken to accommodate an embryo should fertilization occur. The blood supply of the thickened lining provides nutrients to a successfully implanted embryo. If implantation does not occur, the lining breaks down and blood is released. Triggered by falling progesterone levels, menstruation (commonly... 834298ded8 == Causes == 834298ded8 The axis controls development, reproduction, and aging in animals. Gonadotropin-releasing hormone (GnRH) is secreted from the hypothalamus by GnRH-expressing neurons. The anterior portion of the pituitary gland produces luteinizing hormone (LH) and follicle-stimulating hormone (FSH), and the gonads produce testosterone and estrogen. 834298ded8 There are two main types of hormonal contraceptive formulations: combined methods which contain both an estrogen and a progestin, and progestogen-only methods which contain only progesterone or one of its synthetic analogues (progestins). Combined methods work by suppressing ovulation and thickening cervical mucus... 834298ded8 The follicular phase begins on the first day of menstruation (day 1) and continues until the start of ovulation (typically around day 14). Notably, the duration of the follicular phase can vary depending on the overall length of the cycle, whereas the luteal phase is generally more stable and lasts 14 days. During the follicular phase, follicle-stimulating hormone (FSH) stimulates the maturation of the... 834298ded8

Seed cycling progesterone levels. Seed cycling is a commonly promoted natural method to help regulate menstrual cycles, reduce symptoms of hormonal imbalance and support Seed cycling is a dietary practice that involves consuming specific seeds during the two primary phases of the menstrual cycle, with the aim of supporting hormonal balance. Typically, flaxseeds and pumpkin seeds are consumed during the follicular phase (Days 1–14) to support estrogen production, while sesame seeds and sunflower seeds are consumed during the luteal phase (Days 15–28) to support progesterone levels 834298ded8

Polymenorrhagia Hormonal therapies such as oral contraceptives or progesterone can help regulate the menstrual cycle. the severity of symptoms. In more severe cases, surgical Polymenorrhagia, also known as frequent and heavy periods or frequent and heavy menstrual bleeding as well as epimenorrhagia or polyhypermenorrhea, is a menstrual disorder which refers to a combination of polymenorrhea (frequent menstrual bleeding)

and menorrhagia (heavy menstrual bleeding) 834298ded8

Understanding The Menstrual CycleThe Follicular Phase (Cycle Days 1-14) 834298ded8

The HPG axis plays a critical part in the development and regulation of a number of the body's systems, such as the reproductive and immune systems. Fluctuations in this axis cause changes in the hormones produced by each gland and have various local and systemic effects on the body. 834298ded8 The proposed mechanisms have also received scientific criticism. Reviews in 2006 and 2013 concluded that menstrual synchrony likely does not exist. 834298ded8 == Structure == 834298ded8 FSH is a 35.5 kDa glycoprotein heterodimer, consisting of two polypeptide units, alpha and beta. Its structure is similar to those of luteinizing hormone (LH), thyroid-stimulating hormone (TSH), and human chorionic gonadotropin (hCG). The alpha subunits of the glycoproteins LH, FSH, TSH, and hCG are identical and consist of 96 amino acids, while the beta subunits vary. Both subunits are required for biological activity. FSH has a beta subunit of 111 amino acids (FSH β), which confers its specific biologic action, and is responsible for interaction with the follicle-stimulating hormone receptor. The sugar portion of the hormone is covalently bonded to asparagine, and is composed of N-acetylgalactosamine, mannose, N-acetylglucosamine, galactose, and sialic acid. 834298ded8 Seed cycling is a commonly promoted natural method to help regulate menstrual cycles, reduce symptoms of hormonal imbalance and support conditions related to hormonal imbalance, such as irregular cycles, premenstrual syndrome (PMS), polycystic ovary syndrome (PCOS), and menstrual irregularities. 834298ded8 == Hormonal events == 834298ded8 The first period, a point in time known as menarche, usually begins during puberty, between the ages of 11 and 13. However, menstruation starting as young as eight years would still be considered normal. The average age of the first period is generally later in the developing world, and earlier in the developed world. The typical length of time between the first day of one period and the first day of the next is 21 to 45 days in young women; in adults, the range is between 21 and 35 days with the average often cited as 28 days. In the largest study of menstrual app data, the mean menstrual cycle length was determined to be 29.3 days. Bleeding typically lasts two to seven days. Periods stop during pregnancy and typically do not resume during the initial months... 834298ded8 The term luteinizing comes from the Latin "luteus", meaning "yellow". This is in reference to the corpus luteum, which is a mass of cells that forms in an ovary after an ovum (egg) has been discharged. The corpus luteum is so named because it often has a distinctive yellow color. The process of forming the corpus luteum is known as "luteinization", and thus the hormone that triggers this process is termed the "luteinizing" hormone. 834298ded8

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