

How To Decrease Estrogen Level In Female

Estrogen (medication) Estrogens are An estrogen (E) is a type of medication which is used most commonly in hormonal birth control and menopausal hormone therapy, and as part of feminizing hormone therapy for transgender women. Examples of estrogens include bioidentical estradiol, natural conjugated estrogens, synthetic steroidal estrogens like ethinylestradiol, and synthetic nonsteroidal estrogens like diethylstilbestrol. They can also be used in the treatment of hormone-sensitive cancers like breast cancer and prostate cancer and for various other indications. In men, estrogens can cause breast development, feminization, infertility, low testosterone levels, and sexual dysfunction among others. Estrogens are one of three types of sex hormone agonists, the others being androgens/anabolic steroids like testosterone and progestogens like progesterone. They are available in a wide variety of formulations and for use by many different routes of administration. Estrogens are used alone or in combination with progestogens

SERMs are also being explored for gender-affirming hormone therapy in some non-binary transgender individuals that were assigned male at birth. Unlike full estrogen receptor agonists like estradiol which cause the broad development of feminine secondary sex characteristics, SERMs can be used to achieve partial feminization in individuals who wish...

Conjugated estrogens estrogens (CEs), or conjugated equine estrogens (CEEs), sold under the brand name Premarin among others, is an estrogen medication which is used in menopausal Conjugated estrogens (CEs), or conjugated equine estrogens (CEEs), sold under the brand name Premarin among others, is an estrogen medication which is used in menopausal hormone therapy and for various other indications. CEEs are usually taken by mouth, but can also be given by application to the skin or vagina as a cream or by injection into a blood vessel or muscle. It is a mixture of the sodium salts of estrogen conjugates found in horses, such as estrone sulfate and equilin sulfate. CEEs are available in the form of both natural preparations manufactured from the urine of pregnant mares and fully synthetic replications of the natural preparations. They are formulated both alone and in combination with progestins such as medroxyprogesterone acetate

ER β is... EIS is an extremely rare occurrence. As of 2016, there have been three published reports of EIS, involving a total of five individuals. The reports include a male case published in 1994, a female case published in 2013, and a familial case involving two sisters and a brother which was published in 2016. == Function == SERMs are used for various estrogen-related diseases, including treatment of ovulatory dysfunction in the management of infertility treatment, prevention of postmenopausal osteoporosis, treatment and risk reduction of breast cancer, and treatment of dyspareunia due to menopause. SERMs are also used in combination with conjugated estrogens indicated for the management of estrogen deficiency symptoms and of vasomotor symptoms associated with menopause.

Hormone replacement therapy by low levels of female sex hormones (e. g. Progesterone Hormone replacement therapy (HRT), also known as menopausal hormone therapy or postmenopausal hormone therapy, is a form of hormone therapy used to treat symptoms associated with female menopause. g. estrogens) that occur during menopause. estrogens) that occur during menopause. They are mostly caused by low levels of female sex hormones (e. Estrogens and progestogens are the main hormone drugs used in HRT. Effects of menopause can include symptoms such as hot flashes, accelerated skin aging, vaginal dryness, decreased muscle mass, and complications such as osteoporosis (bone

loss), sexual dysfunction, and vaginal atrophy cbe9afec71

Female body shape formation. They also affect body fat distribution, causing fat to be stored Female body shape or female figure is the cumulative product of a woman's bone structure along with the distribution of muscle and fat on the body. Estrogens cause higher levels of fat to be stored in a female body than in a male body cbe9afec71

Other medications used include GnRH agonists and antagonists to completely suppress estrogen and progesterone; progestins like medroxyprogesterone acetate to suppress menstruation; and 5 α -reductase inhibitors to prevent pattern hair loss. Sometimes another... cbe9afec71

Estrogen insensitivity syndrome by a defective estrogen receptor (ER) – specifically, the estrogen receptor alpha (ER α) – that results in an inability of estrogen to mediate its biological Estrogen insensitivity syndrome (EIS), or estrogen resistance, is a form of congenital estrogen deficiency or hypoestrogenism which is caused by a defective estrogen receptor (ER) – specifically, the estrogen receptor alpha (ER α) – that results in an inability of estrogen to mediate its biological effects in the body. Congenital estrogen deficiency can alternatively be caused by a defect in aromatase, the enzyme responsible for the biosynthesis of estrogens, a condition which is referred to as aromatase deficiency and is similar in symptomatology to EIS cbe9afec71

== Estrogen == cbe9afec71 ER β is a member of the family of estrogen receptors and the superfamily of nuclear receptor transcription factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17- β -estradiol, estriol or related ligands, the encoded protein forms homo-dimers or hetero-dimers with estrogen receptor α that interact with specific DNA sequences to activate transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been fully characterized. cbe9afec71 ER β may inhibit cell proliferation and opposes the actions of ER α in reproductive tissue. ER β may also have an important role in adaptive function of the lung during pregnancy. cbe9afec71 Side effects of CEEs include breast tenderness and enlargement, headache, fluid retention, and nausea among others. It may increase the risk of endometrial hyperplasia and endometrial cancer in women with an intact uterus if it is not taken together with a progestogen like progesterone. The medication may also increase the risk of blood clots, cardiovascular disease, and, when combined with most progestogens, breast cancer. CEEs are estrogens... cbe9afec71

Estrogen and neurodegenerative diseases For example, neurodegenerative diseases can cause different physiological effects in males and females. Subsequently, large-scale efforts were initiated to screen for useful estrogen family molecules. Estrogen was initially proposed to be a possible treatment for certain types of neurodegenerative diseases but a plethora of harmful side effects such as increased susceptibility to breast cancer and coronary heart disease overshadowed any beneficial outcomes. result in abnormal estrogen levels. Estrogen and estrogen-like molecules form a large family of potentially beneficial alternatives that can have dramatic effects on human homeostasis and disease. Furthermore, scientists discovered new ways to synthesize estrogen-like compounds that can avoid many side effects. In particular Neurodegenerative diseases can disrupt the normal human homeostasis and result in abnormal estrogen levels. These are called nonsteroidal estrogens, which come from natural or synthetic products including plants, fungi, and chemicals. In particular, estrogen studies have revealed complex interactions with neurodegenerative diseases. On the other hand, Estrogen Replacement Therapy has shown some positive effects with postmenopausal women. For example, neurodegenerative diseases can cause different physiological effects in males and females cbe9afec71

Masculinizing hormone therapy ("bottom growth"). It stops menstruation, and

reduces production of estrogen, the primary female sex hormone. It is used by trans men and transmasculine individuals as part of gender transition, to align their body with their gender identity. This can alleviate gender dysphoria, and help individuals be correctly perceived as their respective gender ("passing"). It cannot reverse breast development, which may Masculinizing hormone therapy is a form of transgender hormone therapy which develops male secondary sex characteristics and suppresses or minimizes female ones cbe9afec71

Side effects of estrogens include breast tenderness, breast enlargement, headache, nausea, and edema among others. Other side effects of estrogens include an increased risk of blood clots, cardiovascular disease, and, when combined with most progestogens, breast cancer. In men, estrogens can cause breast development, feminization, infertility... cbe9afec71 == Medical uses == cbe9afec71

Effects of estrogen on schizophrenia However, in contradictory studies, estrogen either increased or decreased dopamine receptors, depending on the duration of the experiment. While the first onset of schizophrenia generally occurs between the ages of 20 and 25 for men, first onset occurs approximately 5 years later for women, with a second peak (late onset schizophrenia) between the ages of 40 and 45. This observation has led An increase in symptoms of schizophrenia has been observed to correspond with decreasing levels of estrogen in menopausal women. An increase in symptoms of schizophrenia has been observed to correspond with decreasing levels of estrogen in menopausal women. This observation has led researchers to propose a link between estrogen and schizophrenia. Animal studies suggest that estrogen acts as a barrier to dopamine receptors, and so may prevent the increase in dopamine found in patients with schizophrenia cbe9afec71

Estrogens and progestogens are the main hormone drugs used in HRT. Progesterone is the main female sex hormone that occurs naturally and is also manufactured into a drug that is used in menopausal hormone therapy. Although both classes of hormones can have symptomatic benefit, progestogen is specifically added to estrogen regimens, unless the uterus has been removed, to avoid the increased risk of endometrial cancer. Unopposed estrogen therapy promotes endometrial hyperplasia and increases the risk of cancer, while progestogen reduces this risk. Androgens like testosterone are sometimes used as well. HRT is available through a variety of different routes. cbe9afec71 When estrogen levels are low, women are more susceptible and respond poorly to anti-psychotic drugs. Consequently, estrogen is often used to treat schizophrenia in women. Studies show that estrogen patches can reduce the positive symptoms of schizophrenia (at least in the short term). Researchers believe that estrogen could also be used to treat this disease in men. cbe9afec71 Reflecting the wide range of individual beliefs on what is best for physical health and what is preferred aesthetically, there is no universally acknowledged ideal female body shape. Ideals may also vary across different cultures, and they may exert influence on how a woman perceives her own body image. cbe9afec71 EIS is analogous to androgen insensitivity syndrome (AIS), a condition in which the androgen receptor (AR) is defective and insensitive to androgens, such as testosterone and dihydrotestosterone (DHT). The functional opposite of EIS is hyperestrogenism, for instance that seen in aromatase excess syndrome. cbe9afec71 The long-term... cbe9afec71

Selective estrogen receptor modulator Compared to pure ER agonists-antagonists (e. Selective estrogen receptor modulators (SERMs), also known as estrogen receptor agonists/antagonists (ERAAAs), are a class of drugs that act on estrogen receptors Selective estrogen receptor modulators (SERMs), also known as estrogen receptor agonists/antagonists (ERAAAs), are a class of drugs that act on estrogen receptors (ERs). , full agonists and silent antagonists), SERMs are more tissue-specific, allowing them to selectively inhibit or stimulate estrogen-like action in various tissues. g cbe9afec71

Masculinizing hormone therapy involves taking testosterone, the primary male sex hormone. This causes many of the same bodily changes seen in male puberty, including

deeper vocal pitch, greater facial and body hair, heightened sex drive, muscle growth, fat redistribution, and enhanced size and sensitivity of the clitoris ("bottom growth"). It stops menstruation, and reduces production of estrogen, the primary female sex hormone. It cannot reverse breast development, which may necessitate chest reconstruction ("top surgery"). cbe9afec71 Female figures are typically narrower at the waist than at the bust and hips. The bust, waist, and hips are called inflection points, and the ratios of their circumferences are used to define basic body shapes. cbe9afec71 Gender differences have been observed in the age of onset of schizophrenia... cbe9afec71 == Physiology == cbe9afec71 == History == cbe9afec71

Estrogen receptor beta affects neural signaling and plasticity. In humans ERβ is encoded by the ESR2 gene. Specifically, lower estrogen levels lead to decreased dendritic spines and improper signaling, inhibiting plasticity Estrogen receptor beta (ERβ) also known as NR3A2 (nuclear receptor subfamily 3, group A, member 2) is one of two main types of estrogen receptor—a nuclear receptor which is activated by the sex hormone estrogen cbe9afec71

== Age of onset == cbe9afec71

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