

How To Check Testosterone Levels

== Biological function == 46e31ad781 The condition is classified as an inherited metabolic disorder. CAH is an autosomal recessive condition since it results from inheriting two copies of the faulty CYP21A2 gene responsible for 21-hydroxylase enzyme deficiency. The most common forms of CAH are: classical form, usually diagnosed at birth, and nonclassical, late onset form, typically diagnosed during childhood or adolescence, although it can also be identified in adulthood when seeking medical help for fertility concerns or other related issues, such as PCOS or menstrual irregularities. Carriers for the alleles of the nonclassical forms may have no symptoms, such form of CAH is sometimes called cryptic form. Congenital adrenal hyperplasia due to 21-hydroxylase deficiency in all its forms accounts for over 95% of diagnosed cases of all types of congenital adrenal hyperplasia. Unless another specific enzyme is mentioned, CAH in most contexts refers to 21-hydroxylase deficiency. CAH is one of the most common autosomal recessive genetic diseases in humans. 46e31ad781

Dihydrotestosterone In the condition, circulating testosterone levels are within or slightly above the normal male range, but DHT levels are low (around 30% of normal) Dihydrotestosterone (DHT, 5 α -dihydrotestosterone, 5 α -DHT, androstanolone or stanolone) is an endogenous androgen sex steroid and hormone primarily involved in the growth and repair of the prostate and the penis, as well as the production of sebum and body hair composition 46e31ad781

Neolamprologus pulcher pulcher include daffodil cichlid, fairy cichlid, princess of Zambia and lyretail cichlid. Dominant male Neolamprologus pulcher is a species of cichlid endemic to Lake Tanganyika. It can also be found in the aquarium trade. breeders perform the most care and also display the highest levels of plasma testosterone compared to other individuals within the social group. This species can reach a length of 10 centimetres (3. 9 in) TL. The common names for N 46e31ad781

In 2011, the International Association of Athletics Federations (now World Athletics) and IOC (International Olympic Committee... 46e31ad781 Gynecomastia is the most common benign disorder of the male breast tissue and affects... 46e31ad781

Transgender people in sports difficult to enforce in secondary education because of the lack of resources to test testosterone levels, and medical professionals are often hesitant to prescribe The participation of transgender people in competitive sports, a traditionally sex-segregated institution, has become a subject of debate and discussion, particularly in relation to the inclusion of transgender women and girls in women's sports 46e31ad781

Sex verification and intersex athletes at the Olympic Games A. F. Initial concerns that prompted the approval of suspicion-based sex testing were of national teams exploiting intersex athletes for Olympic success, and testing first became a requirement in the 1960s when many female athletes were doped and it was harder to tell physical differences between them and men. A. known as the I. In this time, there have been many different regulations for sex testing, as well as different types of tests used. , two years to provide more persuasive scientific evidence linking 'enhanced testosterone levels and improved athletic performance The Olympic Games mandates sex verification of athletes in women's competitions, and has done since the 1930s 46e31ad781

== Taxonomy and phylogeny == 46e31ad781

Sex verification in sports Using Sex verification in sports (also known as gender verification, gender determination, or a sex test) consists of tests conducted to

determine an athlete's eligibility for sporting events that are restricted to women or for mixed-sex competitions with specific gender requirements. Issues have arisen multiple times in the Olympic games and other high-profile sporting competitions, for example allegations that certain male athletes attempted to compete as women or that certain female athletes had intersex conditions perceived to give unfair advantage. The topic of sex verification is related to the more recent question of how to treat transgender people in sports. 7% of women had high levels with complete overlap between the sexes. Practice has varied tremendously over time, across borders and by competitive level. Sex verification is not typically conducted on athletes competing in the male category because there is generally no perceived competitive advantage for a female or intersex athlete to compete in male categories. The authors found that: 16. 5% of men had low testosterone levels, whereas 13 46e31ad781

Congenital adrenal hyperplasia due to 21-hydroxylase deficiency high testosterone levels. A cosyntropin stimulation test may be needed in mild cases, but usually, the random levels of 17OHP are high enough to confirm Congenital adrenal hyperplasia due to 21-hydroxylase deficiency (CAH) is a genetic disorder characterized by impaired production of cortisol in the adrenal glands 46e31ad781

An early printed reference to "testosterone poisoning" came in 1975 from actor Alan Alda. In a parody of self-help writing, Alda diagnosed the "ailment" of masculinity and offered methods for its "cure". He wrote: 46e31ad781

Testosterone poisoning It is also used by transfeminine people, including transgender women and nonbinary individuals, to describe the negative effects that testosterone has had on their bodies. But if you consider how abnormal their behavior is, then you are led to the hypothesis Testosterone poisoning is a popular term used to explain behaviors that are deemed excessively masculine. the level of testosterone in men is normal simply because they have it 46e31ad781

Previously, it was believed that *N. pulcher* and *N. brichardi* were two distinct species. Now they are considered the same species, the only difference being that *Neolamprologus brichardi* has a black stripe running from its eye to its gill cover and a yellow spot just above it, both of which are absent in *N. pulcher*. Because *Neolamprologus pulcher* is the older of the two scientific names, the rules of scientific nomenclature would make this the correct name for the species. The daffodil cichlid, when it was still known as *N. brichardi*, was named after Pierre Brichard, a Belgian who set up a collection station, for the export of Tanganyikan cichlids in 1971, named "Fishes of Burundi." 46e31ad781 The purpose of the therapy is to cause the development of the secondary sex characteristics of the desired sex, such as breasts and a feminine pattern of hair, fat, and muscle distribution. It cannot undo many of the changes produced by naturally occurring puberty, which may necessitate surgery and other treatments to reverse (see below). The medications used for feminizing hormone therapy include estrogens, antiandrogens, progestogens, and gonadotropin-releasing hormone modulators (GnRH modulators). 46e31ad781

Gynecomastia This may occur even if the levels of estrogens and androgens are both appropriate Gynecomastia (also spelled gynaecomastia) is the non-cancerous enlargement of one or both breasts in men due to the growth of breast tissue as a result of a hormone imbalance between estrogens and androgens. metabolic dysfunction, or a natural decline in testosterone production. Physically speaking, gynecomastia is completely benign, but it is associated with significant psychological distress, social stigma, and dysphoria 46e31ad781

DHT is biologically important for sexual differentiation of the male genitalia during embryogenesis, maturation of the penis and scrotum at puberty, growth of facial, body, and... 46e31ad781 Historically, transgender athletes were often excluded or required to compete based on sex assigned at birth. As gender-affirming treatments

became more common, sports bodies introduced criteria like hormone requirements and sex verification. The International Olympic Committee has mandated sex verification for the Olympic Games since the 1930s and has adjusted its policy since then. In... 46e31ad781 In addition to its role as a natural hormone, DHT has been used as a medication, for instance in the treatment of low testosterone levels in men; for information on DHT as a medication, see the androstanolone article. 46e31ad781

Hyperandrogenism Symptoms of hyperandrogenism may include acne, seborrhea, hair loss on the scalp, increased body or facial hair, and infrequent or absent menstruation. It occurs in approximately 5% of women of reproductive age. Complications may include high blood cholesterol and diabetes. It is more common in women than men. Hyperandrogenism, especially high levels of testosterone, can cause serious adverse effects if left untreated. High testosterone levels are associated with other Hyperandrogenism is a medical condition characterized by high levels of androgens 46e31ad781

Polyendocrine metabolic ovarian syndrome accounts for about 70% of hyperandrogenism cases. Other causes include Congenital adrenal hyperplasia, insulin resistance, hyperprolactinemia, Cushing's disease, certain types of cancers, and certain medications. Diagnosis often involves blood tests for testosterone, 17-hydroxyprogesterone, and prolactin, as well as a pelvic ultrasound. 46e31ad781 Treatment depends on the underlying cause. Symptoms of hyperandrogenism can be treated with birth control pills or antiandrogens, such as cyproterone acetate or spironolactone. Other measures may include hair removal techniques. 46e31ad781 In its history, different sex testing methods at the Olympics have been known to produce false positive and false negative results, incorrectly excluding some women. Through sex testing, there are no confirmed cases of athletes inaccurately stating their sex. The International Olympic Committee re-confirmed the use of sex verification in several meetings in the 1980s and 1990s, each time confirming its use for preventing "male imposters", and not aiming to exclude intersex women. 46e31ad781 Gynecomastia can be normal in newborn male babies due to exposure to estrogen from the mother, in adolescent boys going through puberty, in older men over the age of 50, and in obese men. Most occurrences of gynecomastia do not require diagnostic tests. Abnormal hormone changes that cause gynecomastia may be caused by any condition that leads to an increase in the ratio of estrogens/androgens such as liver disease, kidney failure, thyroid disease and some non-breast tumors. Alcohol and some drugs can also cause breast enlargement. Other causes may include Klinefelter syndrome, metabolic dysfunction, or a natural decline in testosterone production. This may occur even if the levels of estrogens and androgens are both appropriate, but the ratio is altered. 46e31ad781 Feminizing hormone therapy has been empirically shown to reduce the distress and discomfort associated with gender... 46e31ad781

Feminizing hormone therapy It is a common type of transgender hormone therapy (another being masculinizing hormone therapy) and is used to treat transgender women and non-binary transfeminine individuals. Some, in particular intersex people, but also some non-transgender people, take this form of therapy according to their personal needs and preferences. above suppress testosterone levels by about 90%, while estradiol levels of 500 pg/mL and above suppress testosterone levels by about 95%, or to an equivalent Feminizing hormone therapy, also known as transfeminine hormone therapy, is a form of gender-affirming care and a gender-affirming hormone therapy to change the primary and secondary sex characteristics of transgender people from masculine to feminine 46e31ad781

Sex verification in sports began in the 1940s with "femininity certificates" provided by a physician. It subsequently evolved into visual inspections, physical examinations, chromosome testing, and later testosterone level testing. These... 46e31ad781 Opponents of including transgender athletes in competitive sports argue that physiological differences create unfair advantages and safety concerns,

while proponents highlight the effects of hormone therapy and the importance of inclusion. These debates have led to scrutiny of sex verification and eligibility rules, which some view as necessary for fairness and others as discriminatory. With no unified international policy, individual sports organizations set their own standards, and some have restricted transgender women's participation in women's categories. 46e31ad781 The earliest known description of the condition is attributed to Hippocrates. 46e31ad781 Due to... 46e31ad781 Sex testing at the Olympics has been criticized for a variety of reasons, and was briefly stopped. Various international medical and sports professionals have advocated for the abolition... 46e31ad781 == Origins == 46e31ad781 The enzyme 5α -reductase catalyzes the formation of DHT from testosterone in certain tissues including the prostate gland, seminal vesicles, epididymides, skin, hair follicles, liver, and brain. This enzyme mediates reduction of the C4-5 double bond of testosterone. DHT may also be synthesized from progesterone and 17α -hydroxyprogesterone via the androgen backdoor pathway in the absence of testosterone. Relative to testosterone, DHT is considerably more potent as an agonist of the androgen receptor (AR). 46e31ad781

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