

What Is The Main Cause Of Prostate Enlargement

Treatment options include lifestyle changes, medications, a number of procedures, and surgery. In those with mild symptoms, weight loss, decreasing caffeine intake, and exercise are recommended, although the quality of the evidence for exercise is low. In those with more significant symptoms, medications may include alpha blockers such as terazosin or 5 α -reductase inhibitors... e30a254822

Benign prostatic hyperplasia Complications can include urinary tract infections, bladder stones, and chronic kidney problems. Symptoms may include frequent Benign prostatic hyperplasia (BPH), also called prostate enlargement, is a noncancerous increase in size of the prostate gland. Benign prostatic hyperplasia (BPH), also called prostate enlargement, is a noncancerous increase in size of the prostate gland. Symptoms may include frequent urination, trouble starting to urinate, weak stream, inability to urinate, or loss of bladder control e30a254822

Antiandrogen In men, antiandrogens are used in the treatment of prostate cancer, enlarged prostate, scalp hair loss, overly high sex drive, unusual Antiandrogens, also known as androgen antagonists or testosterone blockers, are a class of drugs that prevent androgens like testosterone and dihydrotestosterone (DHT) from mediating their biological effects in the body. They can be thought of as the functional opposites of AR agonists, for instance androgens and anabolic steroids (AAS) like testosterone, DHT, and nandrolone and selective androgen receptor modulators (SARMs) like enobosarm. They act by blocking the androgen receptor (AR) and/or inhibiting or suppressing androgen production. androgen-dependent conditions. Antiandrogens are one of three types of sex hormone antagonists, the others being antiestrogens and antiprogestogens e30a254822

There are two invasive surgical procedures done for BPH: e30a254822

Surgery for benign prostatic hyperplasia The surgeon inserts a scope through the penis tip into the urethra If medical treatment is not effective, surgery may need to be performed for benign prostatic hyperplasia. surgery is used to relieve moderate to severe urinary symptoms caused by prostate enlargement e30a254822

Androgen backdoor pathway In the canonical pathway, dihydrotestosterone is directly synthesized from testosterone by the enzyme 5 α -reductase The androgen backdoor pathway (the backdoor pathway of androgen biosynthesis) is a metabolic route in which androgens are produced from 21-carbon (C21) steroids bypassing testosterone and androstenedione as intermediates. ovarian syndrome, or prostate enlargement e30a254822

These alternate androgen pathways are active in early male sexual development. In individuals with congenital adrenal hyperplasia due to enzyme deficiencies like 21-hydroxylase or cytochrome P450 oxidoreductase deficiency, these pathways can activate at any age with increased levels of precursors like progesterone or 17 α -hydroxyprogesterone. This activation can lead to symptoms of hyperandrogenism such as acne, hirsutism, polycystic ovarian syndrome, or... e30a254822

Urination The process of urination is under voluntary control in healthy humans and other animals, but may occur as a reflex in infants, some elderly individuals, and those with neurological injury. of the prostate gland that can cause urinary frequency, urgency, and pain Benign prostatic hyperplasia, an enlargement of the prostate that can cause Urination is the release of urine from the bladder through the urethra in placental mammals, or through the cloaca in other vertebrates. It is the urinary system's form of excretion. It is normal for adult humans to urinate up to seven times during the day. It is also known medically as micturition, voiding, uresis, or, rarely, emiction, and known colloquially by various names including peeing, weeing, pissing, and euphemistically number one e30a254822

== Stent placement == e30a254822 Universal screening, also known as mass screening or population screening, involves the screening of individuals within certain age and gender groups, aiming to screen the population for particular cancers or cancer risk factors. Selective screening, also known as targeted screening, identifies individuals with a higher risk of developing cancer, including individuals with a family history (genetic risk) of cancer or individuals engaging in high-risk behaviors such as smoking. e30a254822 Gynecomastia is the most common benign disorder of the male breast tissue and affects... e30a254822

Ureteral stent The stent is usually inserted with the aid of a cystoscope. (prostate enlargement by benign prostatic hyperplasia; narrowing of the urethra by urethral stricture): risk of backflow due to increased pressure in the bladder A ureteral stent (pronounced you-REE-ter-ul), or ureteric stent, is a thin tube inserted into the ureter to prevent or treat obstruction of the urine flow from the

kidney. Additionally, stents come in differing diameters or gauges, to fit different size ureters. One or both ends of the stent may be coiled to prevent it from moving out of place; this is called a JJ stent, double J stent or pig-tail stent. The length of the stents used in adult patients varies between 24 and 30 cm e30a254822

The cause is unclear. Risk factors include a family history, obesity, type 2 diabetes, not enough exercise, and erectile dysfunction. Medications like pseudoephedrine, anticholinergics, and calcium channel blockers may worsen symptoms. The underlying mechanism involves the prostate pressing on the urethra thereby making it difficult to pass urine out of the bladder. Diagnosis is typically based on symptoms and examination after ruling out other possible causes. e30a254822 == Invasive therapies == e30a254822 == Anatomy and physiology == e30a254822

Gynecomastia Physically speaking, gynecomastia is completely benign, but it is associated with significant psychological distress, social stigma, and dysphoria. 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 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 e30a254822

Cancer screening The purpose of screening is early cancer detection, to make the cancer easier to treat and to extend life expectancy. In 2019, cancer was the second leading cause of death globally; more recent data is pending due to the COVID-19 pandemic. Because the antigen is prostate specific it can also be elevated by other concerns in the prostate, like prostatitis and benign enlargements of the gland The objective of cancer screening is to detect cancer before symptoms appear, involving various methods such as blood tests, urine tests, DNA tests, and medical imaging e30a254822

In some animals, in addition to expelling waste material, urination can mark territory or express submissiveness. Physiologically, urination involves coordination between the central, autonomic, and somatic nervous systems. Brain centres that regulate urination include the pontine micturition center, periaqueductal gray, and the cerebral cortex. e30a254822 This process starts with 21-carbon (C21) steroids, also known as pregnanes, and involves a step called "5 α -reduction". This pathway does not require the intermediate formation of testosterone, hence the term "bypassing testosterone" is sometimes used in medical literature as the hallmark feature of this way of androgen biosynthesis. This feature is a key distinction

from the conventional, canonical androgenic pathway, which necessitates the involvement of testosterone as an intermediate in the synthesis of androgens. e30a254822

Bicalutamide It is typically used Bicalutamide, sold under the brand name Casodex among others, is an antiandrogen medication that is primarily used to treat prostate cancer. It is typically used together with a gonadotropin-releasing hormone (GnRH) analogue or surgical removal of the testicles to treat metastatic prostate cancer (mPC). Bicalutamide was also previously used as monotherapy to treat localized prostate cancer (LPC), but authorization for this use was withdrawn following unfavorable trial findings. To a lesser extent, it is used at high doses for locally advanced prostate cancer (LAPC) as a monotherapy without castration. It is taken by mouth. Bicalutamide, sold under the brand name Casodex among others, is an antiandrogen medication that is primarily used to treat prostate cancer. Besides prostate cancer, bicalutamide is limitedly used in the treatment of excessive hair growth and scalp hair loss in women, as a puberty blocker and component of feminizing hormone therapy for transgender girls and women, to treat gonadotropin-independent early puberty in boys, and to prevent overly long-lasting erections in men e30a254822

Prostate Disorders of the prostate include enlargement, inflammation The prostate is an accessory gland of the male reproductive system and a muscle-driven mechanical switch between urination and ejaculation. It is described in gross anatomy as consisting of lobes and in microanatomy by zone. It is surrounded by an elastic, fibromuscular capsule and contains glandular and connective tissue. It differs between species anatomically, chemically, and physiologically. in prostatic fluid have better motility, longer survival, and better protection of genetic material. It is found in all male mammals. Anatomically, the prostate is found below the bladder, with the urethra passing through it e30a254822

The act of cancer screening plays a pivotal role in both preventing cancer and providing early diagnosis, contributing to increased success rates in treatment and ultimately extending life expectancy. Controversy arises when it is not clear whether the benefits of the screening outweigh the risks associated... e30a254822 The prostate produces and contains fluid that forms part of semen, the substance emitted during ejaculation as part of the male sexual response. This prostatic fluid is slightly alkaline, and milky or white in appearance. The alkalinity of semen helps neutralize the acidity of the vaginal tract, prolonging the lifespan of sperm. The prostatic fluid is expelled in the first part of ejaculate, together with most of the sperm, because of the action of smooth muscle tissue within the

prostate. In comparison with the few spermatozoa expelled together with mainly seminal vesicular fluid, those in prostatic fluid have better motility, longer survival, and better protection of...

e30a254822 Antiandrogens are used to treat an assortment of androgen-dependent conditions. In men, antiandrogens are used in the treatment of prostate cancer, enlarged prostate, scalp hair loss, overly high sex drive, unusual and problematic sexual urges, and early puberty. In women, antiandrogens are used to treat acne, seborrhea, excessive hair growth, scalp hair loss, and high androgen levels, such as those that occur in polycystic ovary syndrome (PCOS). Antiandrogens are also used as a component of feminizing hormone therapy for transgender... e30a254822

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. e30a254822 Common side effects of bicalutamide in men include breast growth, breast tenderness, and hot flashes. Other side effects in men include feminization and sexual dysfunction. Some side effects like breast changes and feminization are minimal... e30a254822

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