

Endocrine And Reproductive Physiology Mosby Physiology Monograph Series

Dehydroepiandrosterone sulfate

Endocrine and Reproductive Physiology, Mosby Physiology Monograph Series (with Student Consult Online Access),4: Endocrine and Reproductive Physiology. Elsevier

Dehydroepiandrosterone sulfate, abbreviated as DHEA sulfate or DHEA-S, also known as androstenedione sulfate, is an endogenous androstane steroid that is produced by the adrenal cortex. It is the 3 β -sulfate ester and a metabolite of dehydroepiandrosterone (DHEA) and circulates in far greater relative concentrations than DHEA. The steroid is hormonally inert and is instead an important neurosteroid and neurotrophin.

Dehydroepiandrosterone

Reproductive Physiology, Mosby Physiology Monograph Series (with Student Consult Online Access),4: Endocrine and Reproductive Physiology. Elsevier Health

Dehydroepiandrosterone (DHEA), also known as androstenedione, is an endogenous steroid hormone precursor. It is one of the most abundant circulating steroids in humans. DHEA is produced in the adrenal glands, the gonads, and the brain. It functions as a metabolic intermediate in the biosynthesis of the androgen and estrogen sex steroids both in the gonads and in various other tissues. However, DHEA also has a variety of potential biological effects in its own right, binding to an array of nuclear and cell surface receptors, and acting as a neurosteroid and modulator of neurotrophic factor receptors.

In the United States, DHEA is sold as an over-the-counter supplement, and medication called prasterone.

Dominance hierarchy

Genuth, S. M. (1993). *"The endocrine system"*. In Berne, R. M.; Levy, M. N. (eds.). *Physiology*. Vol. 3. St. Louis: Mosby Year Book. pp. 813-1024. Sapolsky

In the zoological field of ethology, a dominance hierarchy (formerly and colloquially called a pecking order) is a type of social hierarchy that arises when members of animal social groups interact, creating a ranking system. Different types of interactions can result in dominance depending on the species, including ritualized displays of aggression or direct physical violence.

In social living groups, members are likely to compete for access to limited resources and mating opportunities. Rather than fighting each time they meet, individuals of the same sex establish a relative rank, with higher-ranking individuals often gaining more access to resources and mates. Based on repetitive interactions, a social order is created that is subject to change each time a dominant animal is challenged...

Shock (circulatory)

(2010). *Rosen's emergency medicine: concepts and clinical practice 7th edition*. Philadelphia, PA: Mosby/Elsevier. p. 2467. ISBN 978-0-323-05472-0. Cherkas

Shock is the state of insufficient blood flow to the tissues of the body as a result of problems with the circulatory system. Initial symptoms of shock may include weakness, elevated heart rate, irregular breathing, sweating, anxiety, and increased thirst. This may be followed by confusion, unconsciousness, or cardiac arrest, as complications worsen.

Shock is divided into four main types based on the underlying cause: hypovolemic, cardiogenic, obstructive, and distributive shock. Hypovolemic shock, also known as low volume shock, may be from bleeding, diarrhea, or vomiting. Cardiogenic shock may be due to a heart attack or cardiac contusion. Obstructive shock may be due to cardiac tamponade or a tension pneumothorax. Distributive shock may be due to sepsis, anaphylaxis, injury to the upper...

Birth control

PMID 30195718. Falcone T, Hurd WW, eds. (2007). *Clinical reproductive medicine and surgery*. Philadelphia: Mosby. p. 409.

ISBN 978-0-323-03309-1. Archived from the

Birth control, also known as contraception, anticonception, and fertility control, is the use of methods or devices to prevent pregnancy. Birth control has been used since ancient times, but effective and safe methods of birth control only became available in the 20th century. Planning, making available, and using human birth control is called family planning. Some cultures limit or discourage access to birth control because they consider it to be morally, religiously, or politically undesirable.

The World Health Organization and United States Centers for Disease Control and Prevention provide guidance on the safety of birth control methods among women with specific medical conditions. The most effective methods of birth control are sterilization by means of vasectomy in males and tubal ligation...

Estradiol (medication)

7-8. ISBN 978-3-642-58616-3. Mosby's GenRx: A Comprehensive Reference for Generic and Brand Prescription Drugs. Mosby. 2001. p. 944. ISBN 978-0-323-00629-3

Estradiol (E2) is a medication and naturally occurring steroid hormone. It is an estrogen and is used mainly in menopausal hormone therapy and to treat low sex hormone levels in women. It is also used in hormonal birth control for women, in feminizing hormone therapy for transgender women and some non-binary individuals, and in the treatment of hormone-sensitive cancers like prostate cancer in men and breast cancer in women, among other uses. Estradiol can be taken by mouth, held and dissolved under the tongue, as a gel or patch that is applied to the skin, in through the vagina, by injection into muscle or fat, or through the use of an implant that is placed into fat, among other routes.

Side effects of estradiol in women include breast tenderness, breast enlargement, headache, fluid retention...

Metformin

DL (2008). Herb, nutrient, and drug interactions: clinical implications and therapeutic strategies. St. Louis, Mo.: Mosby/Elsevier. p. 217. ISBN 978-0-323-02964-3

Metformin, sold under the brand name Glucophage, among others, is the main first-line medication for the treatment of type 2 diabetes, particularly in people who are overweight. It is also used in the treatment of polycystic ovary syndrome, and is sometimes used as an off-label adjunct to lessen the risk of metabolic syndrome in people who take antipsychotic medication. It has been shown to inhibit inflammation, and is not associated with weight gain. Metformin is taken by mouth.

Metformin is generally well tolerated. Common adverse effects include diarrhea, nausea, and abdominal pain. It has a small risk of causing low blood sugar. High blood lactic acid level (acidosis) is a concern if the medication is used in overly large doses or prescribed in people with severe kidney problems.

Metformin...

Cyproterone acetate

Lutwak-Mann C (6 December 2012). Male Reproductive Function and Semen: Themes and Trends in Physiology, Biochemistry and Investigative Andrology. Springer

Cyproterone acetate (CPA), sold alone under the brand name Androcur or with ethinylestradiol under the brand names Diane or Diane-35 among others, is an antiandrogen and progestin medication used in the treatment of androgen-dependent conditions such as acne, excessive body hair growth, early puberty, and prostate cancer, as a component of feminizing hormone therapy for transgender individuals, and in birth control pills. It is formulated and used both alone and in combination with an estrogen. CPA is taken by mouth one to three times per day.

Common side effects of high-dose CPA in men include gynecomastia (breast development) and feminization. In both men and women, possible side effects of CPA include low sex hormone levels, reversible infertility, sexual dysfunction, fatigue, depression...

Estriol (medication)

Simon and Schuster. pp. 1540-. ISBN 978-1-4165-1085-7. Bratman S (2003). Mosby's Handbook of Herbs and Supplements and Their Therapeutic Uses. Mosby/Healthgate

Estriol (E3), sold under the brand name Ovestin among others, is an estrogen medication and naturally occurring steroid hormone which is used in menopausal hormone therapy. It is also used in veterinary medicine as Incurin to treat urinary incontinence due to estrogen deficiency in dogs. The medication is taken by mouth in the form of tablets, as a cream that is applied to the skin, as a cream or pessary that is applied in the vagina, and by injection into muscle.

Estriol is well-tolerated and produces relatively few adverse effects. Side effects may include breast tenderness, vaginal discomfort and discharge, and endometrial hyperplasia. Estriol is a naturally occurring and bioidentical estrogen, or an agonist of the estrogen receptor, the biological target of estrogens like endogenous estradiol...

Bicalutamide

Barbieri RL (28 August 2013). Yen & Jaffe's Reproductive Endocrinology: Physiology, Pathophysiology, and Clinical Management. Elsevier Health Sciences

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). To a lesser extent, it is used at high doses for locally advanced prostate cancer (LAPC) as a monotherapy without castration. Bicalutamide was also previously used as monotherapy to treat localized prostate cancer (LPC), but authorization for this use was withdrawn following unfavorable trial findings. 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...

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