

STANOZOLOL®

Stanozolol USP29, Ph.Eur.5.5, Supermicronized grade Suspension Injectable

Formula: C₂₂H₃₆N₂O (CAS-10161-34-9)
Molecular Weight: 344.5392 gm/mol
Active life: 8 hours
Detection time: 9 weeks
Anabolic/Androgenic ratio: 320/30

DESCRIPTION:

Stanozolol®, brand of Stanozolol suspension injection, is an anabolic steroid, a synthetic derivative of testosterone. Each ml. contains 50, 75 and 100 mg Stanozolol USP29, Ph.Eur.5.5, supermicronized grade. It is designated chemically as 17-methyl-2'H -5α-androst-2-en[3,2-c]pyrazol-17β-ol.

Stanozolol® is a sterile solution of Stanozolol USP in Sodium phosphate dibasic, Polysorbate 80, Sodium merthiolate, Sodium chloride, Sterilized water for injection.

CLINICAL PHARMACOLOGY:

Anabolic steroids are synthetic derivatives of testosterone. Certain clinical effects and adverse reactions demonstrate the androgenic properties of this class of drugs. Complete dissociation of anabolic and androgenic effects has not been achieved. The actions of anabolic steroids are therefore similar to those of male sex hormones with the possibility of causing serious disturbances of growth and sexual development if given to young children. They suppress the gonadotropic functions of the pituitary and may exert a direct effect upon the testes.

Stanozolol® has been found to increase low-density lipoproteins and decrease high-density lipoproteins. These changes are not associated with any increase in total cholesterol or triglyceride levels and revert to normal on discontinuation of treatment.

Hereditary angioedema (HAE) is an autosomal dominant disorder caused by a deficient or nonfunctional C1 esterase inhibitor (C1 INH) and clinically characterized by episodes of swelling of the face, extremities, genitalia, bowel wall, and upper respiratory tract.

In small scale clinical studies, Stanozolol® was effective in controlling the frequency and severity of attacks of angiotedema and in increasing serum levels of C1 INH and C4.

Stanozolol® is not effective in stopping HAE attacks while they are under way. The effect of Stanozolol® on increasing serum levels of C1 INH and C4 may be related to an increase in protein anabolism.

INDICATIONS AND USAGE:

-General deterioration status, different origin slimness, anorexia not responding to treatment, convalescence, chronic and weakening diseases.

-Nephrotic and asthmatic syndromes, rheumatoid arthritis etc., for counteracting catabolic effects produced by corticosteroids.

-As coadjuvant in the treatment of decubitus ulcers, bone fractures of slow recovery, osteoporosis, extensive burns, periods before and after a surgical operation.

-In paediatrics, in growth failure in length and weight, somatic hypoevolutism, dystrophia and immaturity.

Stanozolol® is an aqueous suspension formulated for a prolonged absorption and with no local irritative effects. Its use is preferable provided that the doctor considers separate in time parenteral administrations more safe or more convenient than oral dairy administration. Shake the vial before its use.

A diet rich and equilibrated is convenient when the product is being administered.

CONTRAINDICATIONS:

The use of Stanozolol® is contraindicated in the following:

1. Carcinoma of the prostate or breast in male patients.
 2. Carcinoma of the breast in some females.
 3. Nephrosis or the nephrotic phase of nephritis.
 4. Stanozolol® can cause fetal harm when administered to a pregnant woman.
- Stanozolol® is contraindicated in women who are or may become pregnant. If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to the fetus.
5. Hypersensitivity to stanozolol,

WARNINGS:

Anabolic steroids have the potential capacity of generating masculinizing effects, which can appear in the girls. If this happens, the treatment must be strictly controlled by the doctor.

Long term treatment to promote growth must be interrupted when the skeletal age (to be controlled by radiology every 6 months) approaches the chronological age.

It is informed to sportsmen that this product contains a component that can give a positive analytical result in doping control.

LIVER CELL TUMORS ARE REPORTED. MOST OFTEN THESE TUMORS ARE BENIGN AND ANDROGEN DEPENDENT, BUT FATAL MALIGNANT TUMORS HAVE BEEN REPORTED. WITH DRAWAL OF DRUG OFTEN RESULTS IN REGRESSION OR CESSATION OF PROGRESSION OF THE TUMOR. HOWEVER, HEPATIC TUMORS ASSOCIATED WITH ANDROGENS OR ANABOLIC STEROIDS ARE MUCH MORE VASCULAR THAN OTHER HEPATIC TUMORS AND MAY BE SILENT UNTIL LIFE-THREATENING INTRA-ABDOMINAL HEMORRHAGE DEVELOPS.

PELIOSIS HEPATIS, A CONDITION ARE ALSO REPORTED IN WHICH LIVER AND SOMETIMES SPLENIC TISSUE IS REPLACED WITH BLOOD-FILLED CYSTS, HAS BEEN REPORTED IN PATIENTS RECEIVING ANDROGENIC ANABOLIC STEROID THERAPY. THESE CYSTS ARE SOMETIMES PRESENT WITH MINIMAL HEPATIC DYSFUNCTION, BUT AT OTHER TIMES THEY HAVE BEEN ASSOCIATED WITH LIVER FAILURE. THEY ARE OFTEN NOT RECOGNIZED UNTIL LIFE-THREATENING LIVER FAILURE OR INTRA-ABDOMINAL HEMORRHAGE DEVELOPS. WITHDRAWAL OF DRUG USUALLY RESULTS IN COMPLETE DISAPPEARANCE OF LESIONS.

BLOOD LIPID CHANGES THAT ARE KNOWN TO BE ASSOCIATED WITH INCREASED RISK OF ATHEROSCLEROSIS ARE SEEN IN PATIENTS TREATED WITH ANDROGENS AND ANABOLIC STEROIDS. THESE CHANGES INCLUDE DECREASED HIGH-DENSITY LIPOPROTEIN AND SOMETIMES INCREASED LOW-DENSITY LIPOPROTEIN. THE CHANGES MAY BE VERY MARKED AND COULD HAVE A SERIOUS IMPACT ON THE RISK OF ATHEROSCLEROSIS AND CORONARY ARTERY DISEASE.

General: Women should be observed for signs of virilization (deepening of the voice, hirsutism, acne, and clitoromegaly). To prevent irreversible change, drug therapy must be discontinued, or the dosage significantly reduced when mild virilism is first detected. Such virilization is usual following androgenic anabolic steroid use at high doses. Some virilizing changes in women are irreversible even after prompt discontinuance of therapy and are not prevented by concomitant use of estrogens. Menstrual irregularities may also occur. The insulin or oral hypoglycemic dosage may need adjustment in diabetic patients who receive anabolic steroids.

Information for the Patient: The physician should instruct patients to report any of the following side effects of androgens:

Adult or Adolescent Males: Too frequent or persistent erections of the penis, appearance or aggravation of acne.

Women: Hoarseness, acne, changes in menstrual periods, or more hair on the face.

All Patients: Any nausea, vomiting, changes in skin color, or ankle swelling.

Laboratory Tests: Women with disseminated breast carcinoma should have frequent determination of urine and serum calcium levels during the course of androgenic anabolic steroid therapy (see WARNINGS).

Because of the hepatotoxicity associated with the use of 17-alpha-alkylated androgens, liver function tests should be obtained periodically.

Periodic (every 6 months) x-ray examinations of bone age should be made during treatment of prepubertal patients to determine the rate of bone maturation and the effects of androgenic anabolic steroid therapy on the epiphyseal centers. In common with other anabolic steroids, Stanozolol® has been reported to lower the level of high-density lipoproteins and raise the level of low-density lipoproteins. These changes usually revert to normal on discontinuation of treatment. Increased low-density lipoproteins and decreased high-density lipoproteins are considered cardiovascular risk factors. Serum lipids and high-density lipoprotein cholesterol should be determined periodically.

Carcinogenesis, Mutagenesis, Impairment of Fertility:

Stanozolol has not been tested in laboratory animals for carcinogenic or mutagenic effects. No tumorigenic or cancer inducing properties of Stanozolol were seen in one-year toxicity studies in rats.

Stanozolol administered orally (intragastrically) to pregnant rats at dosages of 2.5 mg/kg/day to 20 mg/kg/day increased the ano-genital distance in rat fetuses, indicative of a masculinizing effect. Stanozolol prevented pregnancy when given orally to rat from the 1st to the 21st day of gestation.

No teratogenic effects or congenital malformation were observed in offspring of rabbits given 0.5 mg/day, 1.0 mg/day, or 5.0 mg/day of Stanozolol from the 8th through the 16th day of pregnancy, nor were there any adverse effects on the course of pregnancy at these dose levels.

Pregnancy: Category X See CONTRAINDICATIONS section.

Nursing Mothers: It is not known whether anabolic steroids are excreted in human milk. Many drugs are excreted in human milk and because of the potential for adverse reactions in nursing infants from Stanozolol®, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric use: Anabolic agents may accelerate epiphyseal maturation more rapidly than linear growth in children, and the effect may continue for 6 months after the drug has been stopped. Therefore, therapy should be monitored by x-ray studies at 6 month intervals in order to avoid the risk of compromising the adult height. The safety and efficacy of Stanozolol® in children with hereditary angioedema have not been established.

OVERDOSAGE:

Cholestatic hepatitis and jaundice occur with 17-alpha-alkylated androgens at relatively low doses. If cholestatic hepatitis with jaundice appears, the anabolic steroid should be discontinued. If liver function tests become abnormal, the patient should be monitored closely and the etiology determined. Generally, the anabolic steroid should be discontinued although in cases of mild abnormalities, the physician may elect to follow the patient carefully at a reduced drug dosage.

In patients with breast cancer, anabolic steroid therapy may cause hypercalcemia by stimulating osteolysis. In this case, the drug should be discontinued.

Edema with or without congestive heart failure may be a serious complication in patients with preexisting cardiac, renal, or hepatic disease.

Geriatric male patients treated with androgenic anabolic steroids may be at an increased risk for the development of prostatic hypertrophy and prostatic carcinoma.

Anabolic steroids have not been shown to enhance athletic ability.

At the therapeutically dosages, no acute toxicity should be expected.

DRUG INTERACTION:

Anabolic steroids may increase sensitivity to anticoagulants; therefore, dosage of an anticoagulant may have to be decreased in order to maintain the prothrombin time at the desired therapeutic level.

Drug/Laboratory Test Interferences. Therapy with androgenic anabolic steroids may decrease levels of thyroxine binding globulin resulting in decreased total T₄ serum levels and increase resin uptake of T₃ and T₄. Free thyroid hormone levels remain unchanged and there is no clinical evidence of thyroid dysfunction.

Anabolic steroids may cause an increase in prothrombin time.

ADVERSE REACTIONS:

Hepatic: Cholestatic Jaundice with, rarely, hepatic necrosis and death. Hepatocellular neoplasms and peliosis hepatic have been reported in association with long-term androgenic-anabolic steroid therapy (see WARNINGS). Reversible changes in liver function tests also occur including increased bromsulphalein (BSP) retention and increases in serum bilirubin, glutamic oxaloacetic transaminase (SGOT) and alkaline phosphatase.

Genitourinary System: *In men. Prepubertal:* Phallic enlargement and increased frequency of erections.

Postpubertal: Inhibition of testicular function, testicular atrophy and oligospermia, impotence, chronic priapism, epididymitis and bladder irritability.

In women: Clitoral enlargement, menstrual irregularities.

In both sexes: Increased or decreased libido.

CNS: Habituation, excitation, insomnia, depression.

Gastrointestinal: Nausea, vomiting, diarrhea.

Hematologic: bleeding in patients on concomitant anticoagulant therapy.

Breast: Gynecomastia.

Larynx: Deepening of the voice in women.

Hair: Hirsutism and male pattern baldness in women.

Skin: Acne (especially in women and prepubertal boys).

Skeletal: Premature closure of epiphyses in children (see PRECAUTIONS, **Pediatric use**).

Fluid and Electrolytes: Edema, retention of serum electrolytes (sodium, chloride, potassium, phosphate, calcium).

Metabolic/Endocrine: Decreased glucose tolerance (see PRECAUTIONS), increased serum levels of low-density lipoproteins and decreased levels of high-density lipoproteins (see PRECAUTIONS, **Laboratory Tests**), increased creatine and creatinine excretion, increased serum levels of creatinine phosphokinase (CPK).

Some virilizing changes in women are irreversible even after prompt discontinuance of therapy and are not prevented by concomitant use of estrogens (see PRECAUTIONS)

PATIENT MONITORING:

Lipid profile: Serum Cholesterol, HDL, LDL, TG.

Hemoglobin and Hematocrit,

Liver function test: Total protein, Albumin, Globulin, Total and direct bilirubin, AST, ALT and alkaline phosphatase, tumor marker for liver: AFP and CA19-9

Prostatic specific antigen: PSA, Testosterone: total, free, and bioavailable.

Dihydrotestosterone & Estradiol

Male patients over 40 should undergo a digital rectal examination and evaluate PSA prior to androgen use. Periodic evaluations of the prostate should continue while on androgen

therapy, especially in patients with difficulty in urination or with changes in voiding habits.

DOSAGE AND ADMINISTRATION:

The use of anabolic steroids may be associated with serious adverse reactions, many of which are dose related; therefore, patients should be placed on the lowest possible effective dose.

Hereditary Angioedema The dosage requirements for continuous treatment of hereditary angioedema with Stanozolol® should be individualized on the basis of the clinical response of the patient.

Children: according to medical prescription.

For Body building: Adult male: suggested dose 50 –100 mg per day intramuscular injection under care of physician, female: suggested dose 2.5 –10 mg per day.

HOW SUPPLIED – Stanozolol® suspension Injection, Solution- Intramuscular

-50 mg/ml is supplied in 1 ml vial with red color flip cap and in multiple dose 10 ml vial with orange color flip cap

-75 mg/ml is supplied in multiple dose 10 ml vial with warm red color flip cap

-100 mg/ml is supplied in multiple dose 10 ml vial with yellow color flip cap

For shelf-life please refer to the imprint on the pack.

Shake the vial before its use.

Keep out of reach of children.

Should be at controlled room temperatures 15-30°C (59-86°F)

Do not freeze

Protect from sun light

This drug has not been shown to be safe and effective for the enhancement of athletic performance!

Manufactured and Distributed by: LA Pharma S.r.l.

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