PATIENT & CAREGIVER EDUCATION

Testosterone

This information from UpToDate® Lexidrug™ explains what you need to know about this medication, including what it's used for, how to take it, its side effects, and when to call your healthcare provider.

Brand Names: US

Androderm [DSC]; AndroGel Pump; AndroGel [DSC]; Aveed; Azmiro; Depo-Testosterone; Fortesta [DSC]; Jatenzo; Kyzatrex; Natesto; Testim; Testopel; Tlando; Undecatrex [DSC]; Vogelxo; Vogelxo Pump; Xyosted

Brand Names: Canada

AndroGel; Delatestryl [DSC]; Depo-Testosterone [DSC]; Jatenzo; Natesto; PMS-Testosterone Undecanoate; TARO-Testosterone; TARO-Testosterone Cypionate; Testim

What is this drug used for?

Testosterone cypionate, testosterone enanthate (intramuscular), and testosterone pellets:

- It is used to treat low testosterone levels.
- It is used in certain children when puberty is delayed.

- It may be given to your child for other reasons. Talk with the doctor.

All other products:

- This drug is not approved for use in children. Talk with the doctor.
- If your child has been given this form of this drug, talk with the doctor for information about the benefits and risks. Talk with the doctor if you have questions or concerns about giving this drug to your child.

What do I need to tell the doctor BEFORE my child takes this drug?

- If your child is allergic to this drug; any part of this drug; or any other drugs, foods, or substances. Tell the doctor about the allergy and what signs your child had.
- If your child is male and has breast or prostate cancer.
- If your child has high blood pressure.
- If your child has heart problems.
- If your child has any of these health problems: Kidney disease or liver disease.

If your child is pregnant or breast-feeding a baby:

- If your child is a female. Not all products are approved for use in females. Talk with your child's doctor to see if

this product may be used in females. If your child is a female using this drug, talk with your child's doctor if she is pregnant, plans on getting pregnant, or is breast-feeding.

This is not a list of all drugs or health problems that interact with this drug.

Tell the doctor and pharmacist about all of your child's drugs (prescription or OTC, natural products, vitamins) and health problems. You must check to make sure that it is safe to give this drug with all of your child's other drugs and health problems. Do not start, stop, or change the dose of any drug your child takes without checking with the doctor.

What are some things I need to know or do while my child takes this drug?

- Tell all of your child's health care providers that your child is taking this drug. This includes your child's doctors, nurses, pharmacists, and dentists.
- Have your child's blood work and other lab tests checked as you have been told by the doctor.
- If your child has high blood sugar (diabetes), you will need to watch your child's blood sugar closely.
- New or worse high blood pressure has happened with

this drug. High blood pressure can raise the chance of stroke, heart attack, or other heart problems. Tell the doctor before your child starts this drug if your child has high blood pressure. Have your child's blood pressure checked as you have been told by the doctor.

- There may be a higher chance of prostate cancer. Talk with the doctor.
- If your child has an enlarged prostate, tell the doctor if your child's signs get worse while taking this drug.
- If your child has sleep apnea, talk with your child's doctor. Sometimes, sleep apnea has gotten worse in people using testosterone.
- Treatment with this drug may lead to higher cholesterol and triglycerides. The effect of these changes on heart health is not known. Talk with the doctor.
- This drug may affect certain lab tests. Tell all of your child's health care providers and lab workers that your child takes this drug.
- This drug is an anabolic steroid. Anabolic steroid drugs have been abused and misused before. Anabolic steroid abuse can lead to dependence and very bad health problems. These health problems include heart or blood vessel problems, stroke, liver problems, and mental or mood problems. Talk with the doctor.

- Large doses of this drug may affect sperm in males and may affect being able to father a child. If this happens, this may not go back to normal after the drug is stopped. If you have questions, talk with the doctor.
- If the patient is a child, use this drug with care. The risk of some side effects may be higher in children.
- This drug may affect growth in children and teens in some cases. They may need regular growth checks. Talk with the doctor.

What are some side effects that I need to call my child's doctor about right away?

WARNING/CAUTION: Even though it may be rare, some people may have very bad and sometimes deadly side effects when taking a drug. Tell your child's doctor or get medical help right away if your child has any of the following signs or symptoms that may be related to a very bad side effect:

All products:

- Signs of an allergic reaction, like rash; hives; itching; red, swollen, blistered, or peeling skin with or without fever; wheezing; tightness in the chest or throat; trouble breathing, swallowing, or talking; unusual hoarseness; or swelling of the mouth, face, lips, tongue, or throat.
- Signs of high blood pressure like very bad headache or

dizziness, passing out, or change in eyesight.

- Shortness of breath, a big weight gain, or swelling in the arms or legs.
- Trouble passing urine, pain when passing urine, passing urine in a weak stream or drips, or passing urine more often.
- Not able to control passing urine.
- New or worse behavior or mood changes like depression or thoughts of suicide.
- Enlarged breasts.
- Breast pain.
- Upset stomach or throwing up.
- Trouble breathing when sleeping.
- Feeling sleepy during the day.
- Abnormal heartbeat.
- Weakness on 1 side of the body, trouble speaking or thinking, change in balance, drooping on one side of the face, or blurred eyesight.
- Change in color of skin.
- Change in size or shape of testicles.
- For females, a deep voice, facial hair, pimples, or period changes.

- Erections (hard penis) that happen often or that last a long time.
- Blood clots have happened with this drug. Tell the doctor if your child has ever had a blood clot. Call the doctor right away if your child has signs of a blood clot like chest pain or pressure; coughing up blood; shortness of breath; swelling, warmth, numbness, change of color, or pain in a leg or arm; or trouble speaking or swallowing.
- Liver problems have happened with drugs like this one. Sometimes, this has been deadly. Call the doctor right away if your child has signs of liver problems like dark urine, tiredness, decreased appetite, upset stomach or stomach pain, light-colored stools, throwing up, or yellow skin or eyes.
- High calcium levels have happened with drugs like this one in some people with cancer. Call your child's doctor right away if your child has signs of high calcium levels like weakness, confusion, feeling tired, headache, upset stomach or throwing up, constipation, or bone pain.

Pellet (implant):

- Signs of infection where this drug was placed. This includes oozing, bleeding, heat, swelling, redness, or

pain.

- If it looks like this drug is coming out of the skin.

What are some other side effects of this drug?

All drugs may cause side effects. However, many people have no side effects or only have minor side effects. Call your child's doctor or get medical help if any of these side effects or any other side effects bother your child or do not go away:

Injection:

- Headache.
- Pimples (acne).
- Diarrhea.
- Emotional ups and downs.
- Feeling tired or weak.
- Trouble sleeping.
- Irritation where the shot is given.

Pellet (implant):

- Headache.
- Pimples (acne).
- Emotional ups and downs.

These are not all of the side effects that may occur. If you

have questions about side effects, call your child's doctor. Call your child's doctor for medical advice about side effects.

You may report side effects to your national health agency.

How is this drug best given?

Give this drug as ordered by your child's doctor. Read all information given to you. Follow all instructions closely.

Injection:

- It is given as a shot into a muscle.
- If you will be giving your child the shot, your child's doctor or nurse will teach you how to give the shot.
- Wash your hands before use.
- Be sure you know where to give the shot. If you are not sure where to give the shot, talk with the doctor.
- Do not give into skin that is irritated, tender, bruised, red, scaly, hard, scarred, or has stretch marks.
- Do not use if the solution is cloudy, leaking, or has particles.
- This drug is colorless to a faint yellow. Do not use if the solution changes color.
- Throw away needles in a needle/sharp disposal box. Do

not reuse needles or other items. When the box is full, follow all local rules for getting rid of it. Talk with a doctor or pharmacist if you have any questions.

Pellet (implant):

- This drug is placed under the skin. Your child's doctor will do this.

What do I do if my child misses a dose?

Injection:

- Give a missed dose as soon as you think about it.
- If it is close to the time for your child's next dose, skip the missed dose and go back to your child's normal time.
- Do not give 2 doses at the same time or extra doses.

Pellet (implant):

- Call your child's doctor to find out what to do.

How do I store and/or throw out this drug?

- If you need to store this drug at home, talk with your doctor, nurse, or pharmacist about how to store it.

General drug facts

- If your child's symptoms or health problems do not get better or if they become worse, call your child's doctor.

- Do not share your child's drug with others and do not give anyone else's drug to your child.
- Store this drug in a safe place where children cannot see or reach it, and where other people cannot get to it. A locked box or area may help keep this drug safe. Keep all drugs away from pets.
- Throw away unused or expired drugs. Do not flush down a toilet or pour down a drain unless you are told to do so. Check with your pharmacist if you have questions about the best way to throw out drugs. There may be drug take-back programs in your area.
- Some drugs may have another patient information leaflet. If you have any questions about this drug, please talk with your child's doctor, nurse, pharmacist, or other health care provider.
- If you think there has been an overdose, call your poison control center or get medical care right away. Be ready to tell or show what was taken, how much, and when it happened.

Consumer Information Use and Disclaimer

This generalized information is a limited summary of diagnosis, treatment, and/or medication information. It is not meant to be comprehensive and should be used as a tool to help the user understand and/or assess potential

diagnostic and treatment options. It does NOT include all information about conditions, treatments, medications, side effects, or risks that may apply to a specific patient. It is not intended to be medical advice or a substitute for the medical advice, diagnosis, or treatment of a health care provider based on the health care provider's examination and assessment of a patient's specific and unique circumstances. Patients must speak with a health care provider for complete information about their health, medical questions, and treatment options, including any risks or benefits regarding use of medications. This information does not endorse any treatments or medications as safe, effective, or approved for treating a specific patient. UpToDate, Inc. and its affiliates disclaim any warranty or liability relating to this information or the use thereof. The use of this information is governed by the Terms of Use, available at https://www.wolterskluwer.com/en/know/clinical-effectiveness-terms.

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If you have questions or concerns, contact your healthcare provider. A member of your care team will answer Monday through Friday from 9 a.m. to 5 p.m. Outside those hours, you can leave a message or talk with another MSK provider. There is always a doctor or nurse on call. If you're not sure how to reach your healthcare provider, call 212-639-2000.

For more resources, visit www.mskcc.org/pe to search our virtual library.

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