

Federal Employee Program.

ANABOLIC STEROIDS

Anadrol-50 (oxymetholone), Oxandrin (oxandrolone)

RATIONALE FOR INCLUSION IN PA PROGRAM

Background

Anabolic steroids are synthetic derivatives of testosterone. Nitrogen balance is improved with anabolic agents but only when there is sufficient intake of calories and protein. Anadrol-50 (oxymetholone) enhances the production and urinary excretion of erythropoietin in patients with anemias due to bone marrow failure and often stimulates erythropoiesis in anemias due to deficient red cell production (1-2).

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 (1-2).

Regulatory Status

FDA approved indication:

- Anadrol-50 is indicated in the treatment of anemias caused by deficient red cell production. Acquired aplastic anemia, congenital aplastic anemia, myelofibrosis and the hypoplastic anemias due to the administration of myelotoxic drugs often respond (1).
- 2. Oxandrin is indicated as adjunctive therapy to promote weight gain after weight loss following extensive surgery, chronic infections, or severe trauma, and in some patients who without definite pathophysiologic reasons fail to gain or to maintain normal weight, to offset the protein catabolism associated with prolonged administration of corticosteroids, and for the relief of the bone pain frequently accompanying osteoporosis (2).

Anabolic steroids have boxed warnings for peliosis hepatitis, a condition in which liver and sometimes splenic tissue is replaced with blood-filled cysts. 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 (1-2).

Anabolic steroids also have boxed warnings for liver cell tumors and blood lipid changes. The tumors are most often benign and androgen-dependent, but fatal malignant tumors have been reported. The blood lipid changes may include decreased high density lipoprotein and sometimes



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Anadrol-50 (oxymetholone), Oxandrin (oxandrolone) 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 (1-2).

Androgenic anabolic steroid therapy should be used very cautiously in children and only by specialists who are aware of the effects on bone maturation (1-2).

Summary

Anabolic steroids are synthetic derivatives of testosterone. Nitrogen balance is improved with anabolic agents but only when there is sufficient intake of calories and protein. Anadrol-50 (oxymetholone) enhances the production and urinary excretion of erythropoietin in patients with anemias due to bone marrow failure and often stimulates erythropoiesis in anemias due to deficient red cell production. Androgenic anabolic steroid therapy should be used very cautiously in children and only by specialists who are aware of the effects on bone maturation (1-2).

Prior approval is required to ensure the safe, clinically appropriate and cost effective use of Anabolic Steroids while maintaining optimal therapeutic outcomes.

References

- 1. Anadrol-50 [package insert]. Marietta, GA: Alaven Pharmaceutical LLC; October 2012.
- 2. Oxandrin [package insert]. Greenville, NC: DSM Pharmaceuticals, Inc.; April 2007.