#### EEMT HS- estrogens, esterified and methyltestosterone tablet, coated EEMT- estrogens, esterified and methyltestosterone tablet, coated CREEKWOOD PHARMACEUTICAL, INC,

Disclaimer: This drug has not been found by FDA to be safe and effective, and this labeling has not been approved by FDA. For further information about unapproved drugs, click here.

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Physician Labeling ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE Tablets

#### WARNINGS

# **1. ESTROGENS HAVE BEEN REPORTED TO INCREASE THE RISK OF ENDOMETRIAL CARCINOMA**

Three independent case control studies have reported an increased risk of endometrial cancer in postmenopausal women exposed to exogenous estrogens for prolonged periods.1-3 This risk was independent of the other known risk factors for endometrial cancer. These studies are further supported by the finding that incidence rates of endometrial cancer have increased sharply since 1969 in eight different areas of the United States with population-based cancer reporting systems, an increase which may be related to the rapidly expanding use of estrogens during the last decade.4

The three case control studies reported that the risk of endometrial cancer in estrogen users was about 4.5 to 13.9 times greater than in nonusers. The risk appears to depend on both duration of treatment1 and on estrogen dose.3 In view of these findings, when estrogens are used for the treatment of menopausal symptoms, the lowest dose that will control symptoms should be utilized and medication should be discontinued as soon as possible. When prolonged treatment is medically indicated, the patient should be reassessed on at least a semiannual basis to determine the need for continued therapy. Although the evidence must be considered preliminary, one study suggests that cyclic administration of low doses of estrogen may carry less risk than continuous administration,3 it therefore appears prudent to utilize such a regimen.

Close clinical surveillance of all women taking estrogens is important. In all cases of undiagnosed persistent or recurring abnormal vaginal bleeding, adequate diagnostic measures should be undertaken to rule out malignancy.

There is no evidence at present that "natural" estrogens are more or less hazardous than "synthetic" estrogens at equiestrogenic doses.

# 2. ESTROGENS SHOULD NOT BE USED DURING PREGNANCY

The use of female sex hormones, both estrogens and progestogens, during early pregnancy may seriously damage the offspring. It has been shown that females exposed in utero to diethylstilbestrol, a non-steroidal estrogen, have an increased risk of developing in later life a form of vaginal or cervical cancer that is ordinarily extremely rare.5,6 This risk has been estimated as not greater than 4 per 1000 exposures.7 Furthermore, a high percentage of such exposed women (from 30 to 90 percent) have been found to have vaginal adenosis,8-12 epithelial changes of the vagina and cervix. Although these changes are histologically benign, it is not known whether they are precursors of malignancy. Although similar data are not available with the use of other estrogens, it cannot be presumed they would not induce similar changes.

Several reports suggest an association between intrauterine exposure to female sex hormones and congenital anomalies, including congenital heart defects and limb reduction defects.13-16 One case control study16 estimated a 4.7 fold increased risk of limb reduction defects in infants exposed in utero to sex hormones (oral contraceptives, hormone withdrawal tests for pregnancy, or attempted treatment for threatened abortion). Some of these exposures were very short and involved only a few days of treatment. The data suggest that the risk of limb reduction defects in exposed fetuses is somewhat less than 1 per 1000.

In the past, female sex hormones have been used during pregnancy in an attempt to treat threatened or habitual abortion. There is considerable evidence that estrogens are ineffective for these indications, and there is no evidence from well controlled studies that progesterones are effective for these uses.

IF ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE FULL STRENGTH or ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE HALF STRENGTH is used during pregnancy, or if the patient becomes pregnant while taking this drug, she should be

#### DESCRIPTION

ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE FULL STRENGTH: Each light green, capsule-shaped, film-coated oral tablet contains: 1.25 mg of Esterified Estrogens, USP and 2.5 mg of Methyltestosterone, USP.

ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE HALF STRENGTH: Each light blue, capsule-shaped, film-coated oral tablet contains: 0.625 mg of Esterified Estrogens, USP and 1.25 mg of Methyltestosterone, USP.

#### **Esterified Estrogens**

Esterified Estrogens, USP is a mixture of the sodium salts of the sulfate esters of the estrogenic substances, principally estrone, that are of the type excreted by pregnant mares. Esterified Estrogens contain not less than 75.0 percent and not more than 85.0 percent of sodium estrone sulfate, and not less than 6.0 percent and not more than 15.0 percent of sodium equilin sulfate, in such proportion that the total of these two components is not less than 90.0 percent.

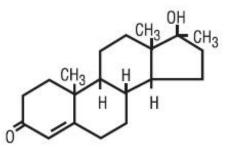
Category: Estrogens

#### **Methyltes tos terone**

Methyltestosterone is an androgen. Androgens are derivatives of cyclopentano-perhydrophenanthrene. Endogenous androgens are C-19 steroids with a side chain at C-17, and with two angular methyl groups. Testosterone is the primary endogenous androgen. Fluoxymesterone and methyltestosterone are synthetic derivatives of testosterone.

Methyltestosterone is a white to light yellow crystalline substance that is virtually insoluble in water but soluble in organic solvents. It is stable in air but decomposes in light.

Methyltestosterone structural formula:



C 20H 30O 2. 302.46

Androst-4-en-3-one, 17-hydroxy-17-methyl-, (17B)-. Category: Androgen.

ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE FULL STRENGTH TABLETS and ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE HALF STRENGTH TABLETS contain the following inactive ingredients: lactose, magnesium stearate, microcrystalline cellulose, titanium dioxide, and other minor ingredients.

ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE FULL STRENGTH TABLETS also contain: FD&C Blue No. 1 and D&C Yellow No. 10 and PEG.

ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE HALF STRENGTH TABLETS also contain: D&C Yellow No. 10, FD&C Blue No. 1.

# CLINICAL PHARMACOLOGY

## Estrogens

Estrogens are important in the development and maintenance of the female reproductive system and secondary sex characteristics. They promote growth and development of the vagina, uterus, and fallopian tubes, and enlargement of the breasts. Indirectly, they contribute to the shaping of the skeleton, maintenance of tone and elasticity of urogenital structures, changes in the epiphyses of the long bones that allow for the pubertal growth spurt and its termination, growth of axillary and pubic hair, and pigmentation of the nipples and genitals. Decline of estrogenic activity at the end of the menstrual cycle can bring on menstruation, although the cessation of progesterone secretion is the most important factor in the mature ovulatory cycle. However, in the preovulatory or nonovulatory cycle, estrogen is the primary determinant in the onset of menstruation. Estrogens also affect the release of pituitary gonadotropins. The pharmacologic effects of esterified estrogens are similar to those of endogeneous estrogens. They are soluble in water and are well absorbed from the gastrointestinal tract.

In responsive tissues (female genital organs, breasts, hypothalamus, pituitary) estrogens enter the cell and are transported into the nucleus. As a result of estrogen action, specific RNA and protein synthesis occurs.

## **Estrogen Pharmacokinetics**

Metabolism and inactivation occur primarily in the liver. Some estrogens are excreted into the bile; however they are reabsorbed from the intestine and returned to the liver through the portal venous system. Water soluble esterified estrogens are strongly acidic and are ionized in body fluids, which favor excretion through the kidneys since tubular reabsorption is minimal.

# Androgens

Endogenous androgens are responsible for the normal growth and development of the male sex organs and for maintenance of secondary sex characteristics. These effects include the growth and maturation of prostate, seminal vesicles, penis, and scrotum; the development of male hair distribution, such as beard, pubic, chest and axillary hair, laryngeal enlargement, vocal cord thickening, alterations in body musculature, and fat distribution. Drugs in this class also cause retention of nitrogen, sodium, potassium, phosphorus, and decreased urinary excretion of calcium. Androgens have been reported to increase protein anabolism and decrease protein catabolism. Nitrogen balance is improved only when there is sufficient intake of calories and protein. Androgens are responsible for the growth spurt of adolescence and for the eventual termination of linear growth centers. In children, exogenous androgens accelerate linear growth rates, but may cause a disproportionate advancement in bone maturation. Use over long periods may result in fusion of the epiphyseal growth centers and termination of growth process. Androgens have been reported to stimulate the production of red blood cells by enhancing the production of erythropoietic stimulating factor.

## Androgen Pharmacokinetics

Testosterone given orally is metabolized by the gut and 44 percent is cleared by the liver in the first pass. Oral doses as high as 400 mg per day are needed to achieve clinically effective blood levels for full replacement therapy. The synthetic androgens (methyltestosterone and fluoxymesterone) are less extensively metabolized by the liver and have longer half-lives. They are more suitable than testosterone for oral administration.

Testosterone in plasma is 98 percent bound to a specific testosteroneestradiol binding globulin, and about 2 percent is free. Generally, the amount of this sex-hormone binding globulin in the plasma will determine the distribution of testosterone between free and bound forms, and the free testosterone concentration will determine its halflife.

About 90 percent of a dose of testosterone is excreted in the urine as glucuronic and sulfuric acid conjugates of testosterone and its metabolites; about 6 percent of a dose is excreted in the feces, mostly in the unconjugated form. Inactivation of testosterone occurs primarily in the liver. Testosterone is metabolized to various 17-keto steroids through two different pathways. There are considerable

variations of the half-life of testosterone as reported in the literature, ranging from 10 to 100 minutes.

In many tissues the activity of testosterone appears to depend on reduction to dihydrotestosterone, which binds to cytosol receptor proteins. The steroid-receptor complex is transported to the nucleus where it initiates transcription events and cellular changes related to androgen action.

# **INDICATIONS & USAGE**

ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE FULL STRENGTH and ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE HALF STRENGTH are indicated in the treatment of: Moderate to severe vasomotor symptoms associated with the menopause in those patients not improved by estrogens alone. (There is no evidence that estrogens are effective for nervous symptoms or depression without associated vasomotor symptoms, and they should not be used to treat such conditions.)

ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE FULL STRENGTH and ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE HALF STRENGTH HAVE NOT BEEN SHOWN TO BE EFFECTIVE FOR ANY PURPOSE DURING PREGNANCY AND ITS USE MAY CAUSE SEVERE HARM TO THE FETUS (SEE BOXED WARNING).

# CONTRAINDICATIONS

Estrogens should not be used in women with any of the following conditions:

- 1. Known or suspected cancer of the breast except in appropriately selected patients being treated for metastatic disease.
- 2. Known or suspected estrogen-dependent neoplasia.
- 3. Known or suspected pregnancy (See Boxed Warning).
- 4. Undiagnosed abnormal genital bleeding.
- 5. Active thrombophlebitis or thromboembolic disorders.
- 6. A past history of thrombophlebitis, thrombosis, or thromboembolic disorders associated with previous estrogen use (except when in treatment of breast malignancy).

Methyltestosterone should not be used in:

- 1. The presence of severe liver damage.
- 2. Pregnancy and in breast-feeding mothers because of the possibility of masculinization of the female fetus or breast-fed infant.

# WARNINGS

Associated with Estrogens

Induction of malignant neoplasms. Long term continuous administration of natural and synthetic estrogens in certain animal species increases this frequency of carcinomas of the breast, cervix, vagina, and liver. There is now evidence that estrogens increase the risk of carcinoma of the endometrium in humans (See Boxed Warning).

At the present time there is no satisfactory evidence that estrogens given to postmenopausal women increase the risk of cancer of the breast,18 although a recent long-term follow-up of a single physician's practice has raised this possibility.18a Because of the animal data, there is a need for caution in prescribing estrogens for women with a strong family history of breast cancer or who have breast nodules, fibrocystic disease, or abnormal mammograms.

Gallbladder disease. A recent study has reported a 2 to 3-fold increase in the risk of surgically confirmed gallbladder disease in women receiving postmenopausal estrogens,18 similar to the 2-fold increase previously noted in users of oral contraceptives.19-24a In the case of oral contraceptives the

increased risk appeared after two years of use.24

Effects similar to those caused by estrogen-progesterone oral contraceptives. There are several serious adverse effects of oral contraceptives, most of which have not, up to now, been documented as consequences of postmenopausal estrogen therapy. This may reflect the comparatively low doses of estrogen used in postmenopausal women. It would be expected that the larger doses of estrogen used to treat prostatic or breast cancer or postpartum breast engorgement are more likely to result in these adverse effects, and, in fact, it has been shown that there is an increased risk of thrombosis in men receiving estrogens for prostatic cancer and women for postpartum breast engorgement.20-23

a. Thromboembolic disease. It is now well established that users of oral contraceptives have an increased risk of various thromboembolic and thrombotic vascular diseases, such as thrombophlebitis, pulmonary embolism, stroke, and myocardial infarction.24-31 Cases of retinal thrombosis, mesenteric thrombosis, and optic neuritis have been reported in oral contraceptive users. There is evidence that the risk of several of these adverse reactions is related to the dose of the drug.32-33 An increased risk of postsurgery thromboembolic complications has also been reported in users of oral contraceptives.34-35 If feasible, estrogen should be discontinued at least 4 weeks before surgery of the type associated with an increased risk of thromboembolism, or during periods of prolonged immobilization.

While an increased rate of thromboembolic and thrombotic disease in postmenopausal users of estrogens has not been found, 18-36 this does not rule out the possibility that such an increase may be present or that subgroups of women who have underlying risk factors or who are receiving relatively large doses of estrogens may have increased risk. Therefore estrogens should not be used in persons with active thrombophlebitis or thromboembolic disorders, and they should not be used (except in treatment of malignancy) in persons with a history of such disorders in association with estrogen use. They should be used with caution in patients with cerebral vascular or coronary artery disease and only for those in whom estrogens are clearly needed.

Large doses of estrogen (5 mg esterified estrogens per day), comparable to those used to treat cancer of the prostate and breast, have been shown in a large prospective clinical trial in men37 to increase the risk of nonfatal myocardial infarction, pulmonary embolism and thrombophlebitis. When estrogen doses of this size are used, any of the thromboembolic and thrombotic adverse effects associated with oral contraceptive use should be considered a clear risk.

b. Hepatic adenoma. Benign hepatic adenomas appear to be associated with the use of oral contraceptives. 38-40 Although benign and rare, these may rupture and may cause death through intraabdominal hemorrhage. Such lesions have not yet been reported in association with other estrogen or progestogen preparations but should be considered in estrogen users having abdominal pain and tenderness, abdominal mass, or hypovolemic shock. Hepatocellular carcinoma has also been reported in women taking estrogen-containing oral contraceptives.39 The relationship of this malignancy to these drugs is not known at this time.

c. Elevated blood pressure. Increased blood pressure is not uncommon in women using oral contraceptives. There is now a report that this may occur with use of estrogens in the menopause41 and blood pressure should be monitored with estrogen use, especially if high doses are used. d. Glucose tolerance. A worsening of glucose tolerance has been observed in a significant percentage of patients of estrogen-containing oral contraceptives. For this reason, diabetic patients should be carefully observed while receiving estrogens.

*Hypercalcemia*. Administration of estrogens may lead to severe hypercalcemia in patients with breast cancer and bone metastases. If this occurs, the drug should be stopped and appropriate measures taken to reduce the serum calcium level.

# Associated with Methyltestosterone

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

Prolonged use of high doses of androgens has been associated with the development of peliosis

hepatis and hepatic neoplasms including hepatocellular carcinoma. (See PRECAUTIONS – Carcinogenesis).

Peliosis hepatis can be a life-threatening or fatal complication.

Cholestatic hepatitis and jaundice occur with 17-alpha-alkylandrogens at a relatively low dose. If cholestatic hepatitis with jaundice appears or if liver function tests become abnormal, the androgen should be discontinued and the etiology should be determined. Drug-induced jaundice is reversible when the medication is discontinued.

Edema with or without heart failure may be a serious complication in patients with preexisting cardiac, renal, or hepatic disease. In addition to discontinuation of the drug, diuretic therapy may be required.

# PRECAUTIONS

Associated with Estrogens

A. General Precautions

A complete medical and family history should be taken prior to the initiation of any estrogen therapy. The pretreatment and periodic physical examinations should include special reference to blood pressure, breasts, abdomen, and pelvic organs, and should include a Papanicolaou smear. As a general rule, estrogen should not be prescribed for longer than one year without another physical examination being performed.

Fluid retention— Because estrogens may cause some degree of fluid retention, conditions which might be influenced by this factor such as asthma, epilepsy, migraine, and cardiac or renal dysfunction, require careful observation.

Certain patients may develop undesirable manifestations of excessive estrogenic stimulation, such as abnormal or excessive uterine bleeding, mastodynia, etc.

Oral contraceptives appear to be associated with an increased incidence of mental depression.24 Although it is not clear whether this is due to the estrogenic or progestogenic component of the contraceptive, patients with a history of depression should be carefully observed. Preexisting uterine leiomyomata may increase in size during estrogen use.

The pathologist should be advised of estrogen therapy when relevant specimens are submitted. Patients with a past history of jaundice during pregnancy have an increased risk of recurrence of jaundice while receiving estrogen-containing oral contraceptive therapy. If jaundice develops in any patient receiving estrogen, the medication should be discontinued while the cause is investigated. Estrogens may be poorly metabolized in patients with impaired liver function and they should be administered with caution in such patients.

Because estrogens influence the metabolism of calcium and phosphorus, they should be used with caution in patients with metabolic bone diseases that are associated with hypercalcemia or in patients with renal insufficiency.

Because of the effects of estrogens on epiphyseal closure, they should be used judiciously in young patients in whom bone growth is not complete.

Certain endocrine and liver function tests may be affected by estrogen-containing oral contraceptives. The following similar changes may be expected with larger doses of estrogen:

a. Increased sulfobromophthalein retention.

b. Increased prothrombin and factors VII, VIII, IX and X; decreased antithrombin 3: increased norepinephrineinduced platelet aggregability.

c. Increased thyroid binding globulin (TBG) leading to increased circulating total thyroid hormone, as measured by PBI, T4 by column, or T4 by radioimmunassay. Free T3 resin uptakes is decreased, reflecting the elevated TBG; free T4 concentration is unaltered.

d. Impaired glucose tolerance.

e. Decreased pregnanediol excretion.

f. Reduced response to metyrapone test.

- g. Reduced serum folate concentration.
- h. Increased serum triglyceride and phospholipid concentration.
- B. Information for the Patient

See text of Patient Package Insert which appears after the REFERENCES.

C. Pregnancy Category X

See CONTRAINDICATIONS and Boxed WARNING.

D. Nursing Mothers

As a general principle, the administration of any drug to nursing mothers should be done only when clearly necessary since many drugs are excreted in human milk.

Associated with Methyltestosterone

A. General Precautions

Women should be observed for signs of virilization (deepening of the voice, hirsutism, acne, clitoromegaly, and menstrual irregularities). Discontinuation of drug therapy at the time of evidence of mild virilism is necessary to prevent irreversible virilization. Such virilization is usual following androgen use at high doses.

Prolonged dosage of androgen may result in sodium and fluid retention. This may present a problem, especially in patients with compromised cardiac reserve or renal disease.

Hypersensitivity may occur rarely.

PBI may be decreased in patients taking androgens.

Hypercalcemia may occur. If this does occur, the drug should be discontinued.

B. Information for the Patient

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

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

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

C. Laboratory Tests

Women with disseminated breast carcinoma should have frequent determination of urine and serum calcium levels during the course of androgen therapy (see WARNINGS).

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

Hemoglobin and hematocrit should be checked periodically for polycythemia in patients who are receiving high doses of androgens.

# D. Drug Interactions

Anticoagulants C-17 substituted derivatives of testosterone, such as methandrostenolone, have been reported to decrease the anticoagulant requirements of patients receiving oral anticoagulants. Patients receiving oral anticoagulant therapy require close monitoring, especially when androgens are started or stopped.

Oxyphenbutazone. Concurrent administration of oxyphenbutazone and androgens may result in elevated serum levels of oxyphenbutazone.

Insulin. In diabetic patients the metabolic effects of androgens may decrease blood glucose and insulin requirements.

E. Drug/Laboratory Test Interferences

Androgens may decrease levels of thyroxine-binding globulin, resulting in decreased T4 serum levels and increased resin uptake of T3 and T4. Free thyroid hormone levels remain unchanged, however, and there is no clinical evidence of thyroid dysfunction.

## F. Carcinogenesis

Animal Data. Testosterone has been tested by subcutaneous injection and implantation in mice and rats. The implant induced cervical-uterine tumors in mice, which metastasized in some cases. There is suggestive evidence that injection of testosterone into some strains of female mice increases their susceptibility to hepatoma. Testosterone is also known to increase the number of tumors and decrease the degree of differentiation of chemically induced carcinomas of the liver in rats.

Human Data. There are rare reports of hepatocellular carcinoma in patients receiving long-term therapy with androgens in high doses. Withdrawal of the drugs did not lead to regression of the tumors in all cases.

Geriatric Patients treated with androgens may be at an increased risk for the development of prostatic hypertrophy and prostatic carcinoma.

G. Pregnancy

Teratogenic Effects. Pregnancy Category X (see CONTRAINDICATIONS).

H. Nursing Mothers

It is not known whether androgens are excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from androgens, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

## **ADVERSE REACTIONS**

#### Associated with Estrogens

(See Warnings regarding induction of neoplasia, adverse effects on the fetus, increased incidence of gallbladder disease, and adverse effects similar to those of oral contraceptives, including thromboembolism). The following additional adverse reactions have been reported with estrogenic therapy, including oral contraceptives:

#### Genitourinary system.

Breakthrough bleeding, spotting, change in menstrual flow.

Dysmenorrhea.

Premenstrual-like syndrome.

Amenorrhea during and after treatment.

Increase in size of uterine fibromyomata.

Vaginal candidiasis.

Change in cervical erosion and in degree of cervical secretion.

Cystitis-like syndrome.

#### Breasts.

Tenderness, enlargement, secretion.

## Gas trointes tinal.

Nausea, vomiting.

Abdominal cramps, bloating.

Cholestatic jaundice.

## Skin.

Chloasma or melasma which may persist when drug is discontinued.

Erythema multiforme.

Erythema nodosum.

Hemorrhagic eruption.

Loss of scalp hair.

Hirsutism.

Eyes.

Steepening of corneal curvature.

Intolerance to contact lenses.

CNS.

Headache, migraine, dizziness.

Mental depression.

Chorea.

# Miscellaneous.

Increase or decrease in weight.

Reduced carbohydrate tolerance.

Aggravation of porphyria.

Edema.

Changes in libido.

# Associated with Methyltestosterone

# A. Endocrine and Urogenital.

Female: The most common side effects of androgen therapy are amenorrhea and other menstrual irregularities, inhibition of gonadotropin secretion, and virilization, including deepening of the voice and clitoral enlargement. The latter usually is not reversible after androgens are discontinued. When administered to a pregnant woman androgens cause virilization of external genitalia of the female fetus.

Skin and Appendages: Hirsutism, male pattern of baldness, and acne.

Fluid and Electrolyte Disturbances: Retention of sodium, chloride, water, potassium, calcium, and inorganic phosphates.

Gastrointestinal: Nausea, cholestatic jaundice, alterations in liver function test, rarely hepatocellular neoplasms, and peliosis hepatis (see WARNINGS).

Hematologic: Suppression of clotting factors, II, V, VII, and X, bleeding in patients on concomitant anticoagulant therapy, and polycythemia.

Nervous System: Increased or decreased libido, headache, anxiety, depression, and generalized paresthesia.

Metabolic: Increased serum cholesterol.

Miscellaneous: Inflammation and pain at site of intramuscular injection or subcutaneous implantation of testosterone containing pellets, stomatitis with buccal preparations, and rarely anaphylactoid reactions.

# OVERDOSAGE

Numerous reports of ingestion of large doses of estrogen-containing oral contraceptives by young children indicate that serious ill effects do not occur. Overdosage of estrogen may cause nausea, and withdrawal bleeding may occur in females.

There have been no reports of acute overdosage with the androgens.

# **DOSAGE & ADMINISTRATION**

1. Given cyclically for short-term use only:

For treatment of moderate to severe vasomotor symptoms associated with the menopause in patients not improved by estrogen alone.

The lowest dose that will control symptoms should be chosen and medication should be discontinued as promptly as possible.

Administration should be cyclic (e.g., three weeks on and one week off). Attempts to discontinue or taper medication should be made at three to six month intervals.

# **Usual Dosage Range**

1 tablet of ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE FULL STRENGTH or 1 to 2 tablets of ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE HALF STRENGTH daily as recommended by the physician.

Treated patients with an intact uterus should be monitored closely for signs of endometrial cancer and appropriate diagnostic measures should be taken to rule out malignancy in the event of persistent or recurring abnormal vaginal bleeding.

# HOW SUPPLIED

ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE TABLETS Full Strength in bottles of 100.

ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE TABLETS Full Strength light green, capsule-shaped, film-coated, oral tablets, debossed "SYNTHO" on one side and "231" on other. Contains: 1.25 mg of Esterified Estrogens, USP and 2.5 mg of Methyltestosterone, USP.

ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE TABLETS Half Strength in bottles of 100.

ESTERIFIED ESTROGENS AND METHYLTESTOSTERONE TABLETS Half Strength light blue, capsule-shaped, film-coated, oral tablets, debossed "SYNTHO" on one side and "230" on other.

Contains: 0.625 mg of Esterified Estrogens, USP and 1.25 mg of Methyltestosterone, USP.

Store at 20°-25°C (68°-77°F); excursions permitted to 15°-30°C (59°-86°F). [See USP Controlled Room Temperature.]

Rx only

## REFERENCES

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# PACKAGE LABEL

## Rx only

Manufactured By: Syntho Pharmaceuticals, Inc. Farmingdale, NY 11735

MG #17286(1) Rev. 5/12

NDC: 15310-010-01

EEMT<sup>TM</sup>

(esterified estrogens and methyltestosterone Tablets 1.25mg/2.5mg)

Each tablet contains: Esterified Estrogens, USP 1.25 mg Methyltestosterone, USP 2.5 mg

Rx only 100 TABLETS

C P CREEKWOOD PHARMACEUTICAL INC.

NDC: 15310-020-01

EEMT<sup>TM</sup> HS

(esterified estrogens and methyltestosterone Tablets 0.625mg/1.25mg)

Each tablet contains: Esterified Estrogens, USP 0.625 mg Methyltestosterone, USP 1.25 mg

Rx only 100 TABLETS

#### C P CREEKWOOD PHARMACEUTICAL INC.

Rx only

100 TABLETS



NDC: 15310-010-01



CREEKWOOD

PHARMACEUTICAL INC



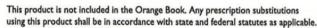
DOSAGE: See package insert for full Prescribing Information.

DISPENSER: Include one "WHAT YOU SHOULD KNOW ABOUT ESTROGENS" Patient Information leaflet with each package dispensed.

Keep this and all medications out of the reach of children. In case of accidental overdose, seek professional assistance or contact a poison control center immediately.

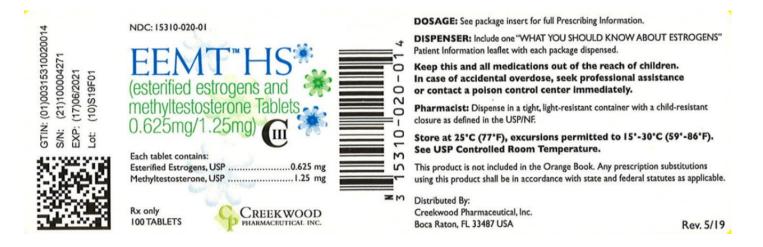
Pharmacist: Dispense in a tight, light-resistant container with a child-resistant closure as defined in the USP/NF.

Store at 25°C (77°F), excursions permitted to I5°-30°C (59°-86°F). See USP Controlled Room Temperature.



Distributed By: Creekwood Pharmaceutical, Inc. Boca Raton, FL 33487 USA

Rev. 5/19



EEMT HS								
estrogens, esterified and methyltestosterone tablet, coated								
Product Information								
Product T ype	HUMAN PRESCRIPTION DRUG Item Code (Source)				NDC:15310-020			
Route of Administration	ORAL	DEA Schedule	ASchedule					
Active Ingredient/Active Moiety								
In	Basis of Streng	gth	Strength					
METHYLTESTOSTERONE (UNII: V9EFU16ZIF) (METHYLTESTOSTERONE - UNII: V9EFU16ZIF) METHYLTESTOSTERONE								
ESTROGENS, ESTERIFIED (UNII: 3ASP8Q3768) (ESTROGENS, ESTERIFIED - UNII:3ASP8Q3768)ESTROGENS, ESTERIFIED								

Inactive Ingredients							
	Ingredient Name		Strength				
ALUMINUM OXIDE (UNII	:LMI26O6933)						
SODIUM CITRATE (UNII:	SODIUM CITRATE (UNII: 1Q73Q2JULR)						
TITANIUM DIO XIDE (UN	II: 15FIX9V2JP)						
TALC (UNII: 7SEV7J4R1U)	)						
SODIUM BICARBONATE	C(UNII: 8MDF5V39QO)						
POLYVINYL ALCOHOL,	, <b>UNSPECIFIED</b> (UNII: 532B59J990)						
D&C YELLOW NO. 10 (UNII: 35SW5USQ3G)							
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)							
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)							
POLYETHYLENE GLYCO	POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)						
MAGNESIUM STEARATE (UNII: 70097M6I30)							
ANHYDROUS LACTOSE (UNII: 3S Y5LH9 PMK)							
CELLULOSE, MICRO CRYSTALLINE (UNII: OP1R32D61U)							
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)							
Product Characteristics							
Color	blue (light blue)	Score	no score				

Shape	OVAL (Oblong) Size 14n			14mm	4mm				
Flavor	Imprint Code			Plain;C20					
Contains									
Packaging									
# Item Code		Package Description				ting Start Date	Marl	Marketing End Date	
<b>1</b> NDC:15310-020- 01	NDC:15310-020- 100 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination 09/01/2011								
Marketing In									
Marketing Catego	ry Applicatio	n Number or Monograph	n Citation	Μ	arketing	Start Date	Marketi	ng	End Date
unapproved drug othe	r			09/	0 1/20 11				
Product Informa	ation								
Product T ype		HUMAN PRESCRIPTION DR							5310-010
						СШ			
Route of Administr	ration	ORAL			hedule	,	CI	Π	
						,	CI	Π	
	nt/Active Moie	ety							
Active Ingredie	nt/Active Moio In	ety gredient Name	DE			Basis of			Streng
Active Ingredie	nt/Active Moio In	ety	DE				Strength		
UNII:V9EFU16ZIF)	nt/Active Moie In ERONE (UNII: V9E	ety gredient Name	DE TERONE -	A Scl		Basis of	<b>Strength</b> TOSTERO		<b>Streng</b> 2.5 mg 1.25 mg
Active Ingredies METHYLTESTOSTE UNII: V9 EFU16 ZIF) ESTROGENS, ESTEJ	nt/Active Moie In ERONE (UNII: V9E	<b>ety</b> gredient Name FU16ZIF) (METHYLTESTOS	DE TERONE -	A Scl		Basis of METHYLTES ESTROGENS	<b>Strength</b> TOSTERO		2.5 mg
Active Ingredies METHYLTESTOSTH UNII:V9EFU16ZIF) ESTROGENS, ESTEJ UNII:3ASP8Q3768)	nt/Active Moid In ERONE (UNII: V9E RIFIED (UNII: 3AS	<b>e ty</b> gredient Name FU16ZIF) (METHYLTESTOS P8Q3768) (ESTROGENS, ES	DE TERONE -	A Scl		Basis of METHYLTES ESTROGENS	Strength TOSTERO	NE	2.5 mg 1.25 mg
Active Ingredies METHYLTESTOSTE UNII:V9EFU16ZIF) ESTROGENS, ESTE UNII:3ASP8Q3768) Inactive Ingredi	nt/Active Moie In ERONE (UNII: V9E RIFIED (UNII: 3AS	ety gredient Name FU16ZIF) (METHYLTESTOS P8Q3768) (ESTROGENS, ES Ingredient Name	DE TERONE -	A Scl		Basis of METHYLTES ESTROGENS	Strength TOSTERO	NE	2.5 mg
Active Ingredies METHYLTESTOSTE UNII:V9EFU16ZIF) ESTROGENS, ESTEJ UNII:3ASP8Q3768) Inactive Ingredi ALUMINUMOXIDE	nt/Active Moie In ERONE (UNII: V9E RIFIED (UNII: 3AS ie nts (UNII: LMI260693	ety gredient Name FU16ZIF) (METHYLTESTOS P8Q3768) (ESTROGENS, ES Ingredient Name 3)	DE TERONE -	A Scl		Basis of METHYLTES ESTROGENS	Strength TOSTERO	NE	2.5 mg 1.25 mg
Active Ingredies METHYLTESTOSTH UNII: V9 EFU16 ZIF) ESTROGENS, ESTEJ UNII: 3ASP8Q3768) Inactive Ingredi ALUMINUM OXIDE SODIUM CITRATE (	nt/Active Moie In ERONE (UNII: V9E RIFIED (UNII: 3AS ie nts (UNII: LMI260693 UNII: 1Q73Q2JULH	ety gredient Name FU16ZIF) (METHYLTESTOS P8Q3768) (ESTROGENS, ES Ingredient Name 3) R)	DE TERONE -	A Scl		Basis of METHYLTES ESTROGENS	Strength TOSTERO	NE	2.5 mg 1.25 mg
Active Ingredies METHYLTESTOSTE UNII: V9EFU16ZIF) ESTROGENS, ESTEU UNII: 3ASP8Q3768) Inactive Ingredi ALUMINUM OXIDE SODIUM CITRATE ( TITANIUM DIOXIDE	nt/Active Moie In ERONE (UNII: V9E RIFIED (UNII: 3AS ients (UNII: LMI260693 UNII: 1Q73Q2JULH 3 (UNII: 15FIX9V2J	ety gredient Name FU16ZIF) (METHYLTESTOS P8Q3768) (ESTROGENS, ES Ingredient Name 3) R)	DE TERONE -	A Scl		Basis of METHYLTES ESTROGENS	Strength TOSTERO	NE	2.5 mg 1.25 mg
Active Ingredies METHYLTESTOSTH UNII: V9 EFU16 ZIF) ESTROGENS, ESTEJ UNII: 3A SP8 Q3768) Inactive Ingredi ALUMINUM OXIDE SODIUM CITRATE ( TITANIUM DIOXIDE TALC (UNII: 7SEV7J4	nt/Active Moie In ERONE (UNII: V9E RIFIED (UNII: 3AS ients (UNII: LMI260693 UNII: 1Q73Q2JULH 3 (UNII: 15FIX9V2J 4R1U)	ety gredient Name FU16ZIF) (METHYLTESTOS P8Q3768) (ESTROGENS, ES Ingredient Name 3) R) P)	DE TERONE -	A Scl		Basis of METHYLTES ESTROGENS	Strength TOSTERO	NE	2.5 mg 1.25 mg
Active Ingredies METHYLTESTOSTE UNII: V9 EFU16 ZIF) ESTROGENS, ESTE UNII: 3ASP8Q3768) Inactive Ingredi ALUMINUM OXIDE SODIUM CITRATE ( TITANIUM DIOXIDE TALC (UNII: 7SEV7J4 SODIUM BICARBON	nt/Active Moie In ERONE (UNII: V9 E RIFIED (UNII: 3AS UNII: LMI260693 UNII: 1Q73Q2JULI CUNII: 15FIX9 V2J 4R1U) NATE (UNII: 8MDF	ety gredient Name FU16ZIF) (METHYLTESTOS P8Q3768) (ESTROGENS, ES Ingredient Name 3) R) P)	DE TERONE -	A Scl		Basis of METHYLTES ESTROGENS	Strength TOSTERO	NE	2.5 mg 1.25 mg
Active Ingredies METHYLTESTOSTI UNII: V9EFU16ZIF) ESTROGENS, ESTEJ UNII: 3ASP8Q3768) Inactive Ingredi ALUMINUM OXIDE SODIUM CITRATE ( TITANIUM DIOXIDE TALC (UNII: 7SEV7J4 SODIUM BICARBON POLYVINYL ALCOI	nt/Active Moie In; ERONE (UNII: V9E RIFIED (UNII: 3AS (UNII: LMI260693 UNII: 1Q73Q2JULH 3 (UNII: 15FIX9V2J 4R1U) NATE (UNII: 8MDF HOL, UNSPECIFI	e ty gredient Name FU16ZIF) (METHYLTESTOS P8Q3768) (ESTROGENS, ES <b>Ingredient Name</b> 3) R) P) 5V39QO) ED (UNII: 532B59J990)	DE TERONE -	A Scl		Basis of METHYLTES ESTROGENS	Strength TOSTERO	NE	2.5 mg 1.25 mg
Active Ingredies METHYLTESTOSTH UNII: V9 EFU16 ZIF) ESTROGENS, ESTEJ UNII: 3ASP8Q3768) Inactive Ingredi ALUMINUM OXIDE SODIUM CITRATE ( TITANIUM DIOXIDE TALC (UNII: 7SEV7J4 SODIUM BICARBON POLYVINYL ALCOJ D&C YELLOW NO.	nt/Active Moie In; ERONE (UNII: V9 E RIFIED (UNII: 3AS ients (UNII: LMI260693 UNII: 1Q73Q2JULH 2 (UNII: 15FIX9V2J 4R1U) NATE (UNII: 8MDF HOL, UNSPECIFII 10 (UNII: 35SW5U	e ty gredient Name FU16 ZIF) (METHYLTESTOS P8 Q3768) (ESTROGENS, ES <b>Ingredient Name</b> 3) R) P) 5V39 QO) ED (UNII: 532 B59 J990) SQ3G)	DE TERONE -	A Scl		Basis of METHYLTES ESTROGENS	Strength TOSTERO	NE	2.5 mg 1.25 mg
Active Ingredies METHYLTESTOSTE UNII: V9 EFU16ZIF) ESTROGENS, ESTE UNII: 3ASP8Q3768) Inactive Ingredi ALUMINUM OXIDE SODIUM CITRATE ( TITANIUM DIOXIDE TALC (UNII: 7SEV7J4 SODIUM BICARBON POLYVINYL ALCO D&C YELLOW NO. FD&C BLUE NO. 1 (	nt/Active Moie In ERONE (UNII: V9E RIFIED (UNII: 3AS ients (UNII: LMI260693 UNII: 1Q73Q2JULH 3 (UNII: 15FIX9V2J 4R1U) NATE (UNII: 8MDF HOL, UNSPECIFII 10 (UNII: 35SW5U UNII: H3R47K3TBI	e ty gredient Name FU16ZIF) (METHYLTESTOS P8Q3768) (ESTROGENS, ES <b>Ingredient Name</b> 3) 3) 3) 3) 8) P) 5V39QO) ED (UNII: 532B59J990) SQ3G) D)	DE TERONE -	A Scl		Basis of METHYLTES ESTROGENS	Strength TOSTERO	NE	2.5 mg 1.25 mg
Active Ingredies METHYLTESTOSTE UNII: V9 EFU16 ZIF) ESTROGENS, ESTEJ UNII: 3A SP8 Q3768) Inactive Ingredi ALUMINUM OXIDE SODIUM CITRATE ( TITANIUM DIO XIDE TALC (UNII: 7SEV7) SODIUM BICARBON POLYVINYL ALCOI D&C YELLOW NO. FD&C BLUE NO. 1 ( SILICON DIO XIDE (	nt/Active Moie In; ERONE (UNII: V9 E RIFIED (UNII: 3AS UNII: LMI260693 UNII: 1Q73Q2JULH (UNII: 15FIX9 V2J (UNII: 15FIX9 V2J 4R1U) NATE (UNII: 8MDF HOL, UNSPECIFII 10 (UNII: 35S W5U UNII: H3R47K3TBI UNII: ETJ7Z6 XBU	e ty gredient Name FU16ZIF) (METHYLTESTOS P8Q3768) (ESTROGENS, ES <b>Ingredient Name</b> 3) 3) 3) 3) 8) P) 5V39QO) ED (UNII: 532B59J990) SQ3G) D)	DE TERONE - STERIFIED -	A Scl		Basis of METHYLTES ESTROGENS	Strength TOSTERO	NE	2.5 mg 1.25 mg
Active Ingredies METHYLTESTOSTE UNII: V9 EFU16 ZIF) ESTROGENS, ESTEJ UNII: 3A SP8 Q3768) Inactive Ingredi ALUMINUM OXIDE SODIUM CITRATE ( TITANIUM DIO XIDE TALC (UNII: 7SEV7) SODIUM BICARBON POLYVINYL ALCOI D&C YELLOW NO. FD&C BLUE NO. 1 ( SILICON DIO XIDE (	nt/Active Moie In ERONE (UNII: V9E RIFIED (UNII: 3AS ients (UNII: LMI260693 (UNII: 1073Q2JULH 3 (UNII: 15FIX9V2J) 4R1U) NATE (UNII: 8MDF HOL, UNSPECIFII 10 (UNII: 35SW5U) UNII: H3R47K3TBI UNII: ETJ7Z6XBU	e ty gredient Name FU16 ZIF) (METHYLTESTOS P8 Q3768) (ESTROGENS, ES <b>Ingredient Name</b> 3) 3) 3) 8) 9) 5V39 QO) ED (UNII: 532B59 J990) SQ3G) 0) 4)	DE TERONE - STERIFIED -	A Scl		Basis of METHYLTES ESTROGENS	Strength TOSTERO	NE	2.5 mg 1.25 mg
Active Ingredies METHYLTESTOSTE UNII: V9 EFU16 ZIF) ESTROGENS, ESTET UNII: 3A SP8Q3768) Inactive Ingredi ALUMINUM OXIDE SODIUM CITRATE ( TITANIUM DIOXIDE TALC (UNII: 7SEV7J4 SODIUM BICARBON POLYVINYL ALCOI D&C YELLOW NO. FD&C BLUE NO. 1 ( SILICON DIOXIDE ( POLYETHYLENE G)	nt/Active Moie In; ERONE (UNII: V9 E RIFIED (UNII: 3AS ients (UNII: LMI260693 UNII: 1073Q2JULH 3 (UNII: 15FIX9V2J 4R1U) NATE (UNII: 8MDF HOL, UNSPECIFII 10 (UNII: 35SW5U; UNII: H3R47K3TBI UNII: ETJ7Z6XBU LYCOL, UNSPEC RATE (UNII: 70097	e ty gredient Name FU16ZIF) (METHYLTESTOS P8Q3768) (ESTROGENS, ES <b>Ingredient Name</b> 3) 3) 3) 3) 3) 9) 5V39QO) ED (UNII: 532B59J990) SQ3G) 2) 4) IFIED (UNII: 3WJQ0SDW1A) 7M6I30)	DE TERONE - STERIFIED -	A Scl		Basis of METHYLTES ESTROGENS	Strength TOSTERO	NE	2.5 mg 1.25 mg

FERRIC OXIDE YELLOW (UNII: EX438O2MRT)								
Product	Product Characteristics							
Color		green (light green)	Score		no score			
Shape		OVAL (Oblong) Size 14mm			14mm			
Flavor	Imprint Code PLAIN;C10			PLAIN;C10				
Contains								
Packagi	ng							
# Item	Code	Package DescriptionMarketing StartMarketing EnDateDate			<u> </u>			
1 NDC:153	NDC:15310-010- 11 100 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product 09/01/2011							
Marketing Information								
Marketin	g Category	Application Number or Monograph	Citation	Marketing Start Date	Marketing End Date			
unapproved	l drug other			09/01/2011				

Labeler - CREEKWOOD PHARMACEUTICAL, INC, (618997188)

Establishment						
Name	Address	ID/FEI	Business Operations			
SYNTHO PHARMACEUTICALS. INC.		088797407	manufacture(15310-010, 15310-020), pack(15310-010, 15310-020)			

Revised: 1/2020

CREEKWOOD PHARMACEUTICAL, INC,