

ACTIVE LEARNING TEMPLATE: *Medication*

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MEDICATION Estrogen (esterified)

REVIEW MODULE CHAPTER _____

CATEGORY CLASS Hormone

PURPOSE OF MEDICATION

Expected Pharmacological Action

responsible for development/maintenance female reprod system & secondary sex characteristics; modulates release of gonadotropin releasing hormone, reduces FSH & LH [reduces elevated levels of gonadotropins/LH/FSH]

Therapeutic Use

management of mod-severe vasomotor sx associated w menopause. tx hypoestrogen R/T hypogonadism, castration or primary ovarian failure. Prevent osteoporosis in postmenopausal women. Palliative tx inoperable progressive CA of prostate/breast in men, breast in postmenopausal women. Abnormal uterine bleeding (inj). Tx mod-severe vulvar & vaginal atrophy R/T menopause.

Complications

Side Effects: vaginal bleeding (spotting/breakthrough), breast pain/tenderness, gynecomastia, HA, HTN, intolerance to contact lenses, anorexia, nausea, loss of scalp hair, depression

Adverse Effects: prolonged admin may inc r/f breast, cervical, endometrial, hepatic, vaginal carcinoma, CVD, coronary heart disease, gallbladder disease, hypercalcemia

Medication Administration

Vaginal Cream 0.625 mg/g
Inj (powder) 25 mg
Tablets 0.3mg, 0.625mg, 1.25mg

Contraindications/Precautions

Contraindications: hypersensitivity, breast CA (except in pt being tx for metastatic disease), hepatic disease, hx/current thrombophlebitis, undx abnormal vaginal bleeding, pregnancy, DVT, PE, angioedema/anaphylactic rxn to estrogens, estrogen-dependent tumors, thrombophilic disorder

Precautions: asthma, epilepsy, migraines, DM, cardiac/renal dysfx, hx severe hypocalcemia, lupus erythematosus, porphyria, endometriosis, gallbladder disease, hypoparathyroidism, hx cholestatic jaundice

Nursing Interventions

- assess BP periodically
- assess for edema, weigh daily
- monitor for loss of vision, diplopia, migraine, thromboembolic disorder, sudden onset of proptosis

Interactions

Drug: dec therapeutic effect of anticoagulants, anastrozole, exemestane

Herbal: w/ estrogenic properteis (fennel, red clover, ginseng)

Lab: may inc serum glucose, HDL, triglycerides, CA. may dec serum chol, LDH. May effect serum metapyrone testing, thyroid fx tests

Client Education

- avoid smoking (inc r/f heart attack/clots)
- avoid grapefruit products
- promptly report s/sx thromboembolic/thrombotic disorders (sudden severe HA, SOB, vision/speech disturbance, weakness/numbness of extrem, loss of coordination, pain in chest/groin/leg, abnormal vag bleed, depression)
- female: perform breast self exam
- report wt gain of 5+ lbs/week
- stop taking & contact MD if pregnancy suspected

Evaluation of Medication Effectiveness

reduced previously elevated levels of gonadotropins/LH/FSH w/o causing serious SE