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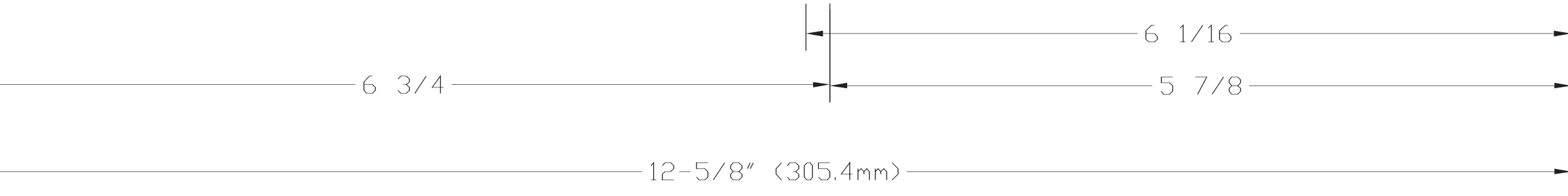
**PRECAUTIONS**  
**A. GENERAL**  
**1. Addition of a progestin when a woman has not had a hysterectomy**  
 Studies of the addition of a progestin for 10 or more days of a cycle of estrogen administration, or daily with estrogen in a continuous regimen, have reported a lowered incidence of endometrial hyperplasia than would be induced by estrogen treatment alone. Endometrial hyperplasia may be a precursor to endometrial cancer. There are, however, possible risks that may be associated with the use of progestins with estrogens compared to estrogen-alone regimens. These include a possible increased risk of breast cancer.  
**2. Elevated blood pressure**  
 In a small number of case reports, substantial increases in blood pressure have been attributed to idiosyncratic reactions to estrogens. In a large, randomized, placebo-controlled clinical trial, a generalized effect of estrogens on blood pressure was not seen. Blood pressure should be monitored at regular intervals with estrogen use.  
**3. Hypertriglyceridemia**  
 In patients with pre-existing hypertriglyceridemia, estrogen therapy may be associated with elevations of plasma triglycerides leading to pancreatitis and other complications.  
**4. Impaired liver function and past history of cholestatic jaundice**  
 Estrogens may be poorly metabolized in patients with impaired liver function. For patients with a history of cholestatic jaundice associated with past estrogen use or with pregnancy, caution should be exercised and in the case of recurrence, medication should be discontinued.  
**5. Hypothyroidism**  
 Estrogen administration leads to increased thyroid-binding globulin (TBG) levels. Patients with normal thyroid function can compensate for the increased TBG by making more thyroid hormone, thus maintaining the free T<sub>4</sub> and T<sub>3</sub> serum concentrations in the normal range. Patients dependent on thyroid hormone replacement therapy who are also receiving estrogens may require increased doses of their thyroid replacement therapy. These patients should have their thyroid function monitored in order to maintain their free thyroid hormone levels in an acceptable range.  
**6. Fluid retention**  
 Because estrogens may cause some degree of fluid retention, patients with conditions that might be influenced by this factor, such as a cardiac or renal dysfunction, warrant careful observation when estrogens are prescribed.  
**7. Hypocalcemia**  
 Estrogens should be used with caution in individuals with severe hypocalcemia.  
**8. Ovarian cancer**  
 The CE/MPA substudy of WHI reported that estrogen plus progestin increased the risk of ovarian cancer. After an average follow-up of 5.6 years, the relative risk for ovarian cancer for CE/MPA versus placebo was 1.58 (95% confidence interval 0.77 - 3.24) but was not statistically significant. The absolute risk for CE/MPA versus placebo was 4.2 versus 2.7 cases per 10,000 women-years. In some epidemiologic studies, the use of estrogen alone, in particular for ten or more years, has been associated with an increased risk of ovarian cancer. Other epidemiologic studies have not found these associations.  
**9. Exacerbation of endometriosis**  
 Endometriosis may be exacerbated with administration of estrogens. A few cases of malignant transformation of residual endometrial implants have been reported in women treated post-hysterectomy with estrogen alone therapy. For patients known to have residual endometriosis post-hysterectomy, the addition of progestin should be considered.  
**10. Exacerbation of other conditions**  
 Estrogens may cause an exacerbation of asthma, diabetes mellitus, epilepsy, migraine or porphyria, systemic lupus erythematosus, and hepatic hemangiomas and should be used with caution in women with these conditions.  
**B. PATIENT INFORMATION**  
 Physicians are advised to discuss the PATIENT INFORMATION leaflet with patients for whom they prescribe ESTRACE® (estradiol vaginal cream, USP, 0.01%).  
**C. LABORATORY TESTS**  
 Estrogen administration should be initiated at the lowest dose approved for the indication and then guided by clinical response rather than by serum hormone levels (e.g., estradiol, FSH).  
**D. DRUG/LABORATORY TEST INTERACTIONS**  
 1. Accelerated prothrombin time, partial thromboplastin time, and platelet aggregation time; increased platelet count; increased factors II, VII antigen, VIII antigen, VIII coagulant activity, IX, X, XII, VII-X complex, II-VII-X complex, and beta<sub>2</sub>-thromboglobulin; decreased levels of anti-factor Xa and antithrombin III; decreased antithrombin III activity; increased levels of fibrinogen and fibrinogen activity; increased plasminogen antigen and activity.  
 2. Increased thyroid-binding globulin (TBG) leading to increased circulating total thyroid hormone, as measured by protein-bound iodine (PBI), T<sub>4</sub> levels (by column or by radioimmunoassay) or T<sub>3</sub> levels by radioimmunoassay. Patients on thyroid replacement therapy may require higher doses of thyroid hormone. T<sub>3</sub> resin uptake is decreased, reflecting the elevated TBG. Free T<sub>4</sub> and free T<sub>3</sub> concentrations are unaltered.  
 3. Other binding proteins may be elevated in serum, i.e., corticosteroid binding globulin (CBG), sex hormone-binding globulin (SHBG), leading to increased circulating corticosteroids and sex steroids, respectively. Free or biologically active hormone concentrations are unchanged. Other plasma proteins may be increased (angiotensinogenin substrate, alpha<sub>1</sub>-antitrypsin, ceruloplasmin).  
 4. Increased plasma HDL and HDL<sub>2</sub> subfraction concentrations, reduced LDL cholesterol concentration, increased triglyceride levels.  
 5. Impaired glucose tolerance.  
 6. Reduced response to metypralone test.  
 7. Reduced serum folate concentration.  
**E. CARCINOGENESIS, MUTAGENESIS, AND IMPAIRMENT OF FERTILITY**  
 Long-term continuous administration of estrogen, with and without progestin, in women with and without a uterus, has shown an increased risk of endometrial cancer, breast cancer, and ovarian cancer. (See **BOXED WARNINGS, WARNINGS AND PRECAUTIONS.**)  
 Long term continuous administration of natural and synthetic estrogens in certain animal species increases the frequency of carcinomas of the breast, uterus, cervix, vagina, testis, and liver.  
**F. PREGNANCY**  
 ESTRACE® (estradiol vaginal cream, USP, 0.01%) should not be used during pregnancy. (See **CONTRAINDICATIONS.**)  
**G. NURSING MOTHERS**  
 Estrogen administration to nursing mothers has been shown to decrease the quantity and quality of the milk. Detectable amounts of estrogens have been identified in the milk of mothers receiving this drug. Caution should be exercised when ESTRACE® (estradiol vaginal cream, USP, 0.01%) is administered to a nursing woman.  
**H. PEDIATRIC USE**  
 Safety and effectiveness in pediatric patients have not been established. Large and repeated doses of estrogen over an extended period of time have been shown to accelerate epiphyseal closure, resulting in short adult stature if treatment is initiated before the completion of physiologic puberty in normally developing children. In patients in whom bone growth is not complete, periodic monitoring of bone maturation and effects on epiphyseal centers is recommended.  
 Estrogen treatment of prepubertal children also induces premature breast development and vaginal cornification, and may potentially induce vaginal bleeding in girls. In boys, estrogen treatment may modify the normal pubertal process. All other physiological and adverse reactions shown to be associated with estrogen treatment of adults could potentially occur in the pediatric population, including thromboembolic disorders and growth stimulation of certain tumors. Therefore, estrogens should only be administered to pediatric patients when clearly indicated and the lowest effective dose should always be utilized.  
**I. GERIATRIC USE**  
 In the Women's Health Initiative Memory Study, including 4,532 women 65 years of age and older, followed for an average of 4 years, 82% (n = 3,729) were 65 to 74 while 16% (n = 803) were 75 and over. Most women (80%) had no prior hormone therapy use. Women treated with conjugated estrogens plus medroxyprogesterone acetate were reported to have a two-fold increase in the risk of developing probable dementia. Alzheimer's disease was the most common classification of probable dementia in both the conjugated estrogens plus medroxyprogesterone acetate group and the placebo group. Ninety percent of the cases of probable dementia occurred in the 54% of women that were older than 70. (See **WARNINGS, Dementia**)  
 There have not been sufficient numbers of geriatric patients involved in studies utilizing ESTRACE® (estradiol vaginal cream, USP, 0.01%) to determine whether those over 65 years of age differ from younger subjects in their response to ESTRACE® (estradiol vaginal cream, USP, 0.01%).  
**ADVERSE REACTIONS**  
 See **BOXED WARNINGS, WARNINGS AND PRECAUTIONS.**  
 Systemic absorption may occur with the use of ESTRACE® (estradiol vaginal cream, USP, 0.01%). The warnings, precautions, and adverse reactions associated with oral estrogen treatment should be taken into account.  
 The following additional adverse reactions have been reported with estrogen and/or progestin therapy.  
**1. Genitourinary system**  
 Changes in vaginal bleeding pattern and abnormal withdrawal bleeding or flow; breakthrough bleeding; spotting; dysmenorrhea, increase in size of uterine leiomyomata; vaginitis, including vaginal candidiasis; change in amount of cervical secretion; changes in cervical ectropion; application site reactions of vulvovaginal discomfort including burning and irritation; genital pruritus; ovarian cancer; endometrial hyperplasia; endometrial cancer.  
**2. Breasts**  
 Tenderness, enlargement, pain, nipple discharge, galactorrhea; fibrocystic breast changes; breast cancer.

**3. Cardiovascular**  
 Deep and superficial venous thrombosis; pulmonary embolism; thrombophlebitis; myocardial infarction; stroke; increase in blood pressure.  
**Gastrointestinal**  
 Nausea, vomiting; abdominal cramps, bloating; cholestatic jaundice; increased incidence of gallbladder disease; pancreatitis, enlargement of hepatic hemangiomas.  
**5. Skin**  
 Chloasma or melasma, that may persist when drug is discontinued; erythema multiforme; erythema nodosum; hemorrhagic eruption; loss of scalp hair; hirsutism; pruritus, rash.  
**6. Eyes**  
 Retinal vascular thrombosis, intolerance to contact lenses.  
**7. Central nervous system**  
 Headache; migraine; dizziness; mental depression; chorea; nervousness; mood disturbances; irritability; exacerbation of epilepsy, dementia.  
**8. Miscellaneous**  
 Increase or decrease in weight; reduced carbohydrate tolerance; aggravation of porphyria; edema; arthralgias; leg cramps; changes in libido; urticaria; angioedema, hypersensitivity, anaphylactoid/anaphylactic reactions; hypocalcemia; exacerbation of asthma; increased triglycerides.  
**OVERDOSAGE**  
 Serious ill effects have not been reported following acute ingestion of large doses of estrogen-containing drug products by young children. Overdosage of estrogen may cause nausea and vomiting, and withdrawal bleeding may occur in females.  
**DOSSAGE AND ADMINISTRATION**  
 Use of ESTRACE® (estradiol vaginal cream, USP, 0.01%), alone or in combination with a progestin, should be limited to the shortest duration consistent with treatment goals and risks for the individual woman. Patients should reevaluate periodically as clinically appropriate (e.g., 3-month to 6-month intervals) to determine if treatment is still necessary (see **BOXED WARNINGS AND WARNINGS**). For treatment of vulvar and vaginal atrophy associated with the menopause, the lowest dose and regimen that will control symptoms should be chosen and medication should be discontinued as promptly as possible. For women who have a uterus, adequate diagnostic measures, such as endometrial sampling, when indicated, should be undertaken to rule out malignancy in cases of undiagnosed persistent or recurring abnormal vaginal bleeding. Attempts to discontinue or taper medication should be made at 3-month to 6-month intervals.  
 Usual Dosage: The usual dosage range is 2 to 4 g (marked on the applicator) daily for one or two weeks, then gradually reduced to one half initial dosage for a similar period. A maintenance dosage of 1 g, one to three times a week, may be used after restoration of the vaginal mucosa has been achieved.  
**NOTE: The number of doses per tube will vary with dosage requirements and patient handling.**  
**HOW SUPPLIED**  
 ESTRACE® (estradiol vaginal cream, USP, 0.01%), N 430-3754-14; tube containing 1 1/2 oz (42.5 g) with a calibrated plastic applicator for delivery of 1, 2, 3, or 4 g.  
**Store at room temperature. Protect from temperatures in excess of 40° C (104° F).**  
 Keep Estrace Vaginal Cream out of the reach of children.

**What is Estrace Vaginal Cream?**  
 Estrace Vaginal Cream is a medicine that contains estrogen hormones.  
**What is Estrace Vaginal Cream used for?**  
 Estrace Vaginal Cream is used to:  
 • treat moderate to severe dryness, itching, and burning in and around the vagina due to menopause. You and your healthcare provider should talk regularly about whether you still need treatment with Estrace Vaginal Cream to control these problems.  
**Who should not use Estrace Vaginal Cream?**  
 Do not start using Estrace Vaginal Cream if you:  
 • have unusual vaginal bleeding  
 • currently have or have had certain cancers  
 Estrogens may increase the chances of getting certain types of cancers, including cancer of the breast or uterus. If you have or have had cancer, talk with your healthcare provider about whether you should use Estrace Vaginal Cream.  
 • had a stroke or heart attack in the past year  
 • currently have or have had blood clots  
 • currently have or have had liver problems  
 • are allergic to Estrace Vaginal Cream or any of its ingredients  
 See the end of this leaflet for a list of ingredients in Estrace Vaginal Cream.  
**think you may be pregnant**  
 Tell your healthcare provider:  
 • if you are breastfeeding  
 The hormone in Estrace Vaginal Cream can pass into your milk.  
 • about all of your medical problems  
 Your healthcare provider may need to check you more carefully if you have certain conditions, such as asthma (wheezing), epilepsy (seizures), migraine, endometriosis, lupus, problems with your heart, liver, thyroid, kidneys, or have high calcium levels in your blood.  
 • about all the medicines you take  
 This includes prescription and nonprescription medicines, vitamins, and herbal supplements. Some medicines may affect how Estrace Vaginal Cream works. Estrace Vaginal Cream may also affect how your other medicines work.  
 • if you are going to have surgery or will be on bed rest.  
 You may need to stop taking estrogens.  
**How should I use Estrace Vaginal Cream?**  
 1. Remove cap from tube. (There is no seal on tube)  
 2. Do not separate plunger from applicator.  
 3. Screw threaded end of applicator onto the opened tube until secure.  
 4. Position upright in order to view the calibrated gram amounts.  
 5. Gently squeeze tube from the bottom to expel the prescribed amount of Estrace Vaginal Cream into the applicator. As cream is squeezed out, plunger will rise to indicate amount of grams.  
 6. Unscrew applicator from tube.  
 7. Replace cap onto tube.  
 8. Lie on back with knees drawn up. To deliver medication, gently insert applicator deeply into vagina and press plunger downward to its original position.  
 9. To cleanse applicator: Pull plunger to remove it from barrel. Wash with mild soap and warm water (DO NOT BOIL OR USE HOT WATER).  
 Estrace Vaginal Cream should be used at the lowest dose possible for your treatment only as long as needed. You and your healthcare provider should talk regularly (for example, every 3 to 6 months) about the dose you are taking and whether you still need treatment with Estrace Vaginal Cream.  
**What are the possible side effects of Estrace Vaginal Cream?**  
 Although Estrace Vaginal Cream is only used in and around the vagina, the risks associated with oral estrogens should be taken into account.  
**Less common but serious side effects include:**  
 • Breast cancer  
 • Cancer of the uterus  
 • Stroke  
 • Heart attack  
 • Blood clots  
 • Dementia  
 • Gallbladder disease  
 • Ovarian cancer  
**These are some of the warning signs of serious side effects:**  
 • Breast lumps  
 • Unusual vaginal bleeding  
 • Dizziness and faintness  
 • Changes in speech  
 • Severe headaches  
 • Chest pain  
 • Shortness of breath

• Pains in your legs  
 • Changes in vision  
 • Vomiting  
 Call your healthcare provider right away if you get any of these warning signs, or any other unusual symptoms that concerns you.  
**Common side effects include:**  
 • Headache  
 • Breast tenderness  
 • Irregular vaginal bleeding or spotting  
 • Stomach/abdominal cramps, bloating  
 • Nausea and vomiting  
 • Hair loss  
 • Vaginal burning, irritation, and itching  
**Other side effects include:**  
 • High blood pressure  
 • Liver problems  
 • High blood sugar  
 • Fluid retention  
 • Enlargement of benign tumors of the uterus ("fibroids")  
 • Vaginal yeast infection  
 • Allergic Reactions  
 These are not all the possible side effects of Estrace Vaginal Cream. For more information, ask your healthcare provider or pharmacist.  
**What can I do to lower my chances of a serious side effect with Estrace Vaginal Cream?**  
 Talk with your healthcare provider regularly about whether you should continue using Estrace Vaginal Cream. See your healthcare provider right away if you get vaginal bleeding while using Estrace Vaginal Cream. Have a breast exam and mammogram (breast x-ray) every year unless your healthcare provider tells you something else. If members of your family have had breast cancer or if you have ever had breast lumps or an abnormal mammogram, you may need to have breast exams more often. If you have high blood pressure, high cholesterol (fat in the blood), diabetes, are overweight, or if you use tobacco, you may have higher chances for getting heart disease. Ask your healthcare provider for ways to lower your chances for getting heart disease.  
**General information about safe and effective use of Estrace Vaginal Cream**  
 Medicines are sometimes prescribed for conditions that are not mentioned in patient information leaflets. Do not use Estrace Vaginal Cream for conditions for which it was not prescribed. Do not use Estrace Vaginal Cream to other people, even if they have the same symptoms you have. It may harm them.  
**Keep Estrace Vaginal Cream out of the reach of children.**  
 This leaflet provides a summary of the most important information about Estrace Vaginal Cream. If you would like more information, talk with your healthcare provider or pharmacist. You can ask for information about Estrace Vaginal Cream that is written for health professionals. You can get more information by calling the toll free number 1-800-521-8813.  
**What are the ingredients in Estrace Vaginal Cream?**  
 Each gram of Estrace Vaginal Cream contains 0.1 mg estradiol in a nonaqueous base containing purified water, propylene glycol, stearyl alcohol, white ceresin wax, mono- and di-glycerides, hypromellose 2208 (4000 cps), sodium lauryl sulfate, methylparaben, edetate di-sodium and tertiary-butylhydroquinone.

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Manufactured by:  
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