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Duricef-Cont.

HOW SUPPLIED

DURICEF® (cefadroxil monohydrate, USP) 500 mg Capsules: opaque, marcon and white hard gelatin capsules, im-printed with "PPP" and "784" on one end and with "DURICEF" and, "500 mg" on the other end. Capsules are summigd as follows:

supplied as lollows:	
NDC 0087-0784-07	Bottle of 20
NDC 0087-0784-46	Bottle of 50
NDC 0087-0784-42	Bottle of 100
NDC 0087-0784-44	10 strips of 10

individually labeled Store at controlled room temperature (15°-30° C). DURICEF® 1 gram Tablets: white to off white, top bisected,

oval shaped, imprinted with "PPP" on one side of the bisect and "785" on the other side of the bisect. Tablets are supplied as follows:

NDC 0087-0785-43	Bottle of 50
NDC 0087-0785-42	Bottle of 100
NDC 0087-0785-45	4 packs of 10 in

ndividually labeled blisters with 1 tablet per blister re at controlled room temperature (15°-30° C).

DURICEF® for Oral Suspension is orange-pineapple flavored, and is supplied as follows:

125 mg/5 mL	NDC 0087-0786-42	50 mL Bottle
	NDC 0087-0786-41	100 mL Bottle
250 mg/5 mL	NDC 0087-0782-42	50 mL Bottle
	NDC 0087-0782-41	100 mL Bottle
500 mg/5 mL	NDC 0087-0783-42	50 mL Bottle
	NDC 0087-0783-05	75 mL Bottle
	NDC 0087-0783-41	100 mL Bottle

Prior to reconstitution: Store at controlled room temperature (15°-30° C).

REFERENCES

1. National Committee for Clinical Laboratory Standards, Approved Standard, Performance Standards for Antimi-crobial Disk Susceptibility Test, 4th Edition, Vol. 10 (7): M2-A4, Villanova, PA, April, 1990. 2. National Committee for Clinical Laboratory Standards, Approved Standard: Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria that Groun Aerobically, 2nd Edition, Vol. 10 (8): MT-A2, Villanova, PA, April, 1990. 0782DIM-05

Revised March 1998 E3-B001-3-98

Bristol-Myers Squibb Company Princeton, NJ 08543

USA

Shown in Product Identification Guide, page 307

ESTRACE® (ESTRADIOL VAGINAL'CREAM, USP, 0.01%)	Ŗ
les trace) ESTRACE® (ESTRADIOL TABLETS, USP)	₿⁄

Rx only

WARNINGS

DOCKE.

1. ESTROGENS HAVE BEEN REPORTED TO INCREASE THE RISK OF ENDOMETRIAL CARCINOMA IN POST-MENOPAUSAL WOMEN,

lose clinical surveillance of all women taking estrogens is important. Adequate diagnostic measures, including endometrial sampling when indicated, should be undertaken to rule out malignancy in all cases of undiagnosed persistent or recurring abnormal vaginal bleeding. There is no evidence that "natural" estrogens are more or less hazardous than "synthetic" estrogens at equiestrogenic dos

ESTROGENS SHOULD NOT BE USED DURING PREGNANCY.

There is no indication for estrogen therapy during pregnancy or during the immediate postpartum period. Es-trogens are ineffective for the prevention or treatment of threatened or habitual abortion. Estrogens are not indicated for the prevention of postpartum breast engorgement.

Estrogen therapy during pregnancy is associated with an increased risk of congenital defects in the reproduc-tive organs of the fetus, and possibly other birth defects. Studies of women who received diethylstilbestrol (DES) during pregnancy have shown that female offspring have an increased risk of vaginal adenosis, squamous cell dysplasia of the uterine cervix, and clear cell vaginal cell dysplasia of the uterine cervix, and clear cell vaginal cancer later in life; male offspring have an increased risk of urogenital abnormalities and possibly testicular cancer later in life. The 1986 DES Task Force concluded that use of DES during pregnancy is associated with a subsequent increased risk of breast cancer in the mothers, although a causal relationship remains unproven and the observed level of excess risk is similar to that for a number of other breast cancer risk factors.

DESCRIPTION

Estradiol (17β-estradiol) is a white, crystalline solid, chemically described as estimated a white, because showing the state of t



ESTRACE® (Estradiol Vaginal Cream, USP) contains 0.1 mg estradiol per gram in a nonliquefying base containing purified water, propylene glycol, stearyl alcohol, white ceresin wax, glyceryl monostearate, hydroxypropyl methylcellulose 2208 4000 cps, sodium lauryl sulfate, methylparaben, ede tate disodium and *tertiary*-butylhydroquinone. ESTRACE® (Estradiol Tablets, USP) for oral administration

contains 0.5, 1 or 2 mg of micronized estradiol per tablet. ESTRACE Tablets, 0.5 mg, contain the following inactive ingredients: acacia, dibasic calcium phosphate, lactose, magnesium stearate, colloidal silicon dioxide, starch (corn), and talc.

BSTRACE Tablets, 1 mg, contain the following inactive in-gredients: acacia, D&C Red No. 27 (aluminum lake), dibasic calcium phosphate, FD&C Blue No. 1 (aluminum lake), lactose, magnesium stearate, colloidal silicon dioxide, starch (corn), and talc.

ESTRACE Tablets, 2 mg, contain the following inactive ingredients: acacia, dibasic calcium phosphate, FD&C Blue No. 1 (aluminum lake), FD&C Yellow No. 5 (tartrazine) (aluminum lake), lactose, magnesium stearate, colloidal silicon dioxide, starch (corn), and talc.

CLINICAL PHARMACOLOGY

Estrogen drug products act by regulating the transcription of a limited number of genes. Estrogens diffuse through cell membranes, distribute themselves throughout the cell, and bind to and activate the nuclear estrogen receptor, a DNAbinding protein which is found in estrogen-responsive tissues. The activated estrogen receptor binds to specific DNA sequences, or hormone-response elements, which enhance the transcription of adjacent genes and in turn lead to the observed effects. Estrogen receptors have been identified in tissues of the reproductive tract, breast, pituitary, hypothalamus, liver, and bone of women

Estrogens are important in the development and maintenance of the female reproductive system and secondary sex characteristics. By a direct action, they cause growth and development of the uterus, fallopian tubes, and vagina. With other hormones, such as pituitary hormones and pro-gesterone, they cause enlargement of the breasts through promotion of ductal growth, stromal development, and the accretion of fat. Estrogens are intricately involved with other hormones, especially progesterone, in the processes of the ovulatory menstrual cycle and pregnancy, and affect the release of pituitary gonadotropins. They also contribute to the shaping of the skeleton, maintenance of tone and elas-ticity of urogenital structures, changes in the epiphyses of the long bones that allow for the pubertal growth spurt and its termination, and pigmentation of the nipples and genitals.

Estrogens occur naturally in several forms. The primary source of estrogen in normally cycling adult women is the ovarian follicle, which secretes 70 to 500 micrograms of estradiol daily, depending on the phase of the menstrual cycle. This is converted primarily to estrone, which circulates in roughly equal proportion to estradiol, and to small amounts of estriol. After menopause, most endogenous estrogen is produced by conversion of androstenedione, secreted by the adrenal cortex, to estrone by peripheral tissues. Thus, es-trone-especially in its sulfate ester form-is the most abundant circulating estrogen in postmenopausal women. Although circulating estrogens exist in a dynamic equilib-rium of metabolic interconversions, estradiol is the principal intracellular human estrogen and is substantially more potent than estrone or estriol at the receptor. Estrogens used in therapy are well absorbed through the

skin, mucous membranes, and gastrointestinal tract. When applied for a local action, absorption is usually sufficient to cause systemic effects. When conjugated with aryl and alkyl groups for parenteral administration, the rate of absorption of oily preparations is slowed with a prolonged duration of action, such that a single intramuscular injection of estradiol valerate or estradiol cypionate is absorbed over several

Administered estrogens and their esters are handled within the body essentially the same as the endogenous hormones. Metabolic conversion of estrogens occurs primarily in the liver (first pass effect), but also at local target tissue sites. Complex metabolic processes result in a dynamic equilib-

PHYSICIANS' DESK REFERENCE®

rium of circulating conjugated and unconjugated estrogenic forms which are continually interconverted, especially between estrone and estradiol and between esterified and non-esterified forms. Although naturally-occurring estrogens circulate in the blood largely bound to sex hormone-binding globulin and albumin, only unbound estrogens enter target tissue cells. A significant proportion of the circulating estro gen exists as sulfate conjugates, especially estrone sulfate, which serves as a circulating reservoir for the formation of more active estrogenic species. A certain proportion of the estrogen is excreted into the bile and then reabsorbed from the intestine. During this enterohepatic recirculation, estro gens are desulfated and resulfated and undergo degrada. tion through conversion to less active estrogens (estriol and other estrogens), oxidation to nonestrogenic substances (catecholestrogens, which interact with catecholamine metabolism, especially in the central nervous system), and conjugation with glucuronic acids (which are then rapidly ex. creted in the urine)

When given orally, naturally-occurring estrogens and their esters are extensively metabolized (first pass effect) and circulate primarily as estrone sulfate, with smaller amounts of other conjugated and unconjugated estrogenic species. This results in limited oral potency. By contrast, synthetic estro-gens, such as ethinyl estradiol and the nonsteroidal estrogens, are degraded very slowly in the liver and other tissues, which results in their high intrinsic potency. Estrogen drug products administered by non-oral routes are not subject to first-pass metabolism, but also undergo significant hepatic uptake, metabolism, and enterohepatic recycling.

INDICATIONS AND USAGE

ESTRACE® (Estradiol Vaginal Cream, USP, 0.01%) is indicated in the treatment of vulval and vaginal atrophy. ESTRACE® (Estradiol Tablets, USP) is indicated in the

1. Treatment of moderate to severe vasomotor symptoms as sociated with the menopause. There is no adequate evidence that estrogens are effective for nervous symptoms or depres sion which might occur during menopause and they should not be used to treat these conditions. 2. Treatment of vulval and vaginal atrophy.

3. Treatment of hypoestrogenism due to hypogonadism, castration or primary ovarian failure. 4. Treatment of breast cancer (for palliation only) in appro-

priately selected women and men with metastatic dis 5. Treatment of advanced androgen-dependent carcinoma of the prostate (for palliation only).

6. Prevention of osteoporosis.

Since estrogen administration is associated with risk, selec-tion of patients should ideally be based on prospective idea tification of risk factors for developing osteoporosis. Unfortunately, there is no certain way to identify those women who will develop osteoporotic fractures. Most prospective studies of efficacy for this indication have been carried out in white menopausal women, without stratification by other risk factors, and tend to show a universally salutary effect on bone. Thus, patient selection must be individualized based on the balance of risks and benefits. A more favorable risk/benefit ratio exists in a hysterectomized woman be-cause she has no risk of endometrial cancer (see BOXED WARNINGS)

Estrogen replacement therapy reduces bone resorption and retards or halts postmenopausal bone loss. Case-control studies have shown an approximately 60 percent reduction in hip and wrist fractures in women whose estrogen replacement was begun within a few years of menopause. Studies also suggest that estrogen reduces the rate of vertebral fractures. Even when started as late as 6 years after menopause, estrogen prevents further loss of bone mass for as long as the treatment is continued. The results of a twoyear, randomized, placebo-controlled, double-blind, doseranging study have shown that treatment with 0.5 mg es-tradiol daily for 23 days (of a 28 day cycle) prevents vertebral bone mass loss in postmenopausal women. When estrogen therapy is discontinued, bone mass declines at a rate comparable to the immediate postmenopausal period. There is no evidence that estrogen replacement therapy restores bone mass to premenopausal levels.

At skeletal maturity there are sex and race differences in both the total amount of bone present and its density, in favor of men and blacks. Thus, women are at higher risk than men because they start with less bone mass and, for several years following natural or induced menopause, the rate of bone mass decline is accelerated. White and Asian women are at higher risk than black women. Early menopause is one of the strongest predictors for the development of osteoporosis. In addition, other factors affecting the skeleton which are associated with osteoporosis include genetic factors (small build, family history), and endocrine factors kulliparity, thyrotoxicosis, hyperparathyroidism, Cushing's syndrome, hyperprolactinemia, Type I diabetes), lifestyle (cigarette smoking, alcohol abuse, sedentary exercise habits) and nutrition (below average body weight, dietary calcium intake).

The mainstays of prevention and management of osteoporo sis are estrogen, adequate lifetime calcium intake, and ex-

Information will be superseded by supplements and subsequent editions

RODUCT INFORMATION

ercise. Postmenopausal women absorb dietary calcium less ercise. I using prememopausal women and require an aver-efficiently than prememopausal women and require an aver-ge of 1500 mg/day of elemental calcium to remain in neuage of four balance. By comparison, premenopausal tral calcium Dalance. By comparison, premenopausal women require about 1000 mg/day and the average calcium intake in the USA is 400-600 mg/day. Therefore, when not intake in the USA is a solution supplementation may be heipful. Weight-bearing exercise and nutrition may be important Weight-bearing electric and industrian may be important adjuncts to the prevention and management of osteoporosis. adjuncts to the performance and management of osteoporosis. Immobilization and prolonged bed rest produce rapid bone Immountation and particulate bed less produce rapid bone loss, while weight-bearing exercise has been shown both to reduce bone loss and to increase bone mass. The optimal reduce bone noss and to increase bone mass. The optimal type and amount of physical activity that would prevent ostype and amount of payerer activity that would prevent os-teoporosis have not been established, however in two studteoporosis have been established, however in two stud-ies, an hour of walking and running exercise twice or three ies, an nour of warning the funning eventse twice of three times weekly significantly increased lumbar spine bone

mass CONTRAINDICATIONS

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

Known or suspected pregnancy (see BOXED WARN-NGS). Estrogens may cause fetal harm when administered a pregnant woman.

to a pregnant woman. 2 Undiagnosed abnormal genital bleeding. 3. Known or suspected cancer of the breast except in appropriately selected patients being treated for metastatic dis-

Known or suspected estrogen-dependent neoplasia.
 Active thrombophlebitis or thromboembolic disorders.

WARNINGS

1. Induction of malignant neoplasms.

Endometrial cancer. The reported endometrial cancer risk among unopposed estrogen users is about 2- to 12-fold greater than in non-users, and appears dependent on dura-tion of treatment and on estrogen dose. Most studies show ne significant increased risk associated with use of estrogens for less than one year. The greatest risk appears asso-ciated with prolonged use—with increased risks of 15- to 24fold for five to ten years or more. In three studies, persistence of risk was demonstrated for 8 to over 15 years after cessation of estrogen treatment. In one study a significant decrease in the incidence of endometrial cancer occurred six months after estrogen withdrawal. Concurrent progestin postmenopausal women is not known (see PRECAU-TIONS).

Breast Cancer. While the majority of studies have not shown an increased risk of breast cancer in women who have ever used estrogen replacement therapy, some have reported a moderately increased risk (relative risks of 1.3-2.0) in those taking higher doses or those taking lower doses for prolonged periods of time, especially in excess of 10 years. Other studies have not shown this relationship.

While the effects of added progestins on the risk of breast cancer are also unknown, available epidemiological evidence suggests that progestins do not reduce, and may enhance, the moderately increased breast cancer incidence that has been reported with prolonged estrogen replace-ment therapy (see PRECAUTIONS).

Congenital lesions with malignant potential. Estrogen therapy during pregnancy is associated with an increased risk of fetal congenital reproductive tract disorders, and possibly other birth defects. Studies of women who received DES during pregnancy have shown that female offspring have an increased risk of vaginal adenosis, squamous cell developie of the studies of t dysplasia of the uterine cervix, and clear cell vaginal cancer later in life; male offspring have an increased risk of uro-genital abnormalities and possibly testicular cancer later in life. Although some of these changes are benign, others are precursors of malignancy. 2. Gallbladder disease. Two studies have reported a 2- to

4-fold increase in the risk of gallbladder disease requiring

a total increase in the risk of gambauer disease requiring surgery in women receiving postmenopausal estrogens. 3. Cardiovascular disease. Large doses of estrogen (5 mg conjugated 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 men to increase the risks of nonfatel means disinfertion and means the breast establish of nonfatal myocardial infarction, pulmonary embolism, and thrombophlebitis. These risks cannot necessarily be extrapolated from men to women. However, to avoid the theoretical cardiovascular risk to women caused by high estrogen doses, the dose for estrogen replacement therapy should not exceed the lowest effective dose.

4. Elevated blood pressure. Occasional blood pressure increases during estrogen replacement therapy have been at-tributed to idiosyncratic reactions to estrogens. More often, blood pressure has remained the same or has dropped. One study showed that postmenopausal estrogen users have higher blood pressure than nonusers. Two other studies showed slightly lower blood pressure among estrogen users compared to nonusers. Postmenopausal estrogen use does not increase the risk of stroke. Nonetheless, blood pressure should be monitored at regular intervals with estrogen use. 5. Hypercalcemia. Administration of estrogens may lead to severe hypercalcemia in patients with breast cancer and

DOCKET

bone metastases. If this occurs, the drug should be stopped and appropriate measures taken to reduce the serum calcium level.

PRECAUTIONS

A. General 1. Addition of a progestin. Studies of the addition of a progestin for 10 or more days of a cycle of estrogen administration have reported a lowered incidence of endometrial hyperplasia than would be induced by estrogen treatment alone. Morphological and biochemical studies of endometria suggest that 10 to 14 days of progestin are needed to provide maximal maturation of the endometrium and to reduce the likelihood of hyperplastic changes.

There are, however, possible risks which may be associated with the use of progestins in estrogen replacement regimens. These include: (1) adverse effects on lipoprotein me tabolism (lowering HDL and raising LDL) which could diminish the purported cardioprotective effect of estrogen therapy (see PRECAUTIONS below); (2) impairment of glucose tolerance; and (3) possible enhancement of mitotic activity in breast epithelial tissue, although few epidemiological data are available to address this point (see WARN-INGS).

The choice of progestin, its dose, and its regimen may be important in minimizing these adverse effects, but these issues will require further study before they are clarified.

2. Cardiovascular risk. A causal relationship between estrogen replacement therapy and reduction of cardiovascular disease in postmenopausal women has not been proven. Furthermore, the effect of added progestins on this putative benefit is not vet known.

In recent years many published studies have suggested that there may be a cause-effect relationship between postmenopausal oral estrogen replacement therapy without added progestins and a decrease in cardiovascular disease in women. Although most of the observational studies which assessed this statistical association have reported a 20% to 50% reduction in coronary artery disease risk and associ-ated mortality in estrogen takers, the following should be considered when interpreting these reports:

(1) Because only one of these studies was randomized and it was too small to yield statistically significant results, all rel-evant studies were subject to selection bias. Thus, the apparently reduced risk of coronary artery disease cannot be attributed with certainty to estrogen replacement therapy. It may instead have been caused by life-style and medical characteristics of the women studied with the result that healthier women were selected for estrogen therapy. In general, treated women were of higher socioeconomic and educational status, more slender, more physically active, more likely to have undergone surgical menopause, and less likely to have diabetes than the untreated women. Although some studies attempted to control for these selection facsome studies attempted to control for these selection fac-tors, it is common for properly designed randomized trials to fail to confirm henefits suggested by less rigorous study designs. Thus, ongoing and future large-scale randomized trials may fail to confirm this apparent benefit.

(2) Current medical practice often includes the use of concomitant progestin therapy in women with intact uter (see PRECAUTIONS and WARNINGS). While the effects of added progestins on the risk of ischemic heart disease are not known, all available progestins reverse at least some of the favorable effects of estrogens on HDL and LDL levels.

3. Physical examination. 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 reexamining the patient.

4. Hypercoagulability. Some studies have shown that en taking estrogen replacement therapy have hypercoagulability, primarily related to decreased antithrombin activity. This effect appears dose- and duration-dependent and is less pronounced than that associated with oral contraceptive use. Also, postmenopausal women tend to have increased coagulation parameters at baseline compared to pre-menopausal women. There is some suggestion that low dose postmenopausal mestranol may increase the risk of thromboembolism, although the majority of studies (of primarily conjugated estrogens users) report no such increase. There is insufficient information on hypercoagulability in women who have had previous thromboembolic disease.

5. Familial hyperlipoproteinemia. Estrogen therapy may be associated with massive elevations of plasma triglycer-ides leading to pancreatitis and other complications in patients with familial defects of lipoprotein metabolism.

6. Fluid retention. Because estrogens may cause some deee of fluid retention, conditions which might be exacerbated by this factor, such as asthma, epilepsy, migraine, and cardiac or renal dysfunction, require careful observation. 7. Uterine bleeding and mastodynia. Certain patients may develop undesirable manifestations of estrogenic stim-ulation, such as abnormal uterine bleeding and mastodynia.

8. Impaired liver function. Estrogens may be poorly metabolized in patients with impaired liver function and should be administered with caution.

ESTRACE® (Estradiol Tablets, USP), 2 mg, contain FD&C Yellow No. 5 (tartrazine) which may cause allergic-type re-actions (including bronchial asthma) in certain susceptible individuals. Although the overall incidence of FD&C Yellow individuals. Although the overall inclusion of Doubleton is No. 5 (tartrazine) sensitivity in the general population is low, it is frequently seen in patients who also have aspirin hypersensitivity. B. Information for the Patient. See text of Patient Package

Insert below.

Insert below. Advise patients that the number of doses per tube of ES-TRACE® (Estradiol Vaginal Cream, USP, 0.01%) will vary with dosage requirements and patient handling. C. Laboratory Tests. Estrogen administration should gen-erally be guided by clinical response at the smallest dose, rather than laboratory monitoring, for relief of symptoms for those indications in which symptoms are observable. For prevention of osteoporosis, however, see DOSAGE AND AD-MINISTRATION section under ESTRACE@ (Estradiol Tab-lets, USP) item 5.

MINISTRATION section under ESTRACE® (Estradiol Tablets, USP) item 5.
Drugt/Laboratory Test Interactions.
Accelerated prothrombin time, partial thromboplastin time, and platelet aggregation time; increased platelet count; increased factors II, VII antigen, VIII antigen, VIII congulant activity, IK, X, XII, VII-X complex, II-VII-X complex, and beta-thromboglobulin; decreased levels of antifactor Xa and antithrombin III, decreased antithrombin III activity; increased platelet of fibrinogen and fibrinogen activity; increased platelet of fibrinogen and fibrinogen activity; increased platelet of birinogen and civity.
Increased thyroid-binding globulin (TBG) leading to increased thyroid-binding globulin (TBG) leading to increased thyroid-binding globulin (TBG) leading to increased inculating total thyroid hormone, as measured by protein-bound iodine (PBD, T4 levels (by column or by radioimmunoassay) or T3 levels by radioimmunoassay. T3 resin uptake is decreased, reflecting the elevated TBG. Free T4 and free T3 concentrations are unaltered.
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. (angiotensinogen/renin substrate, alpha-1-antitrypsin, ceruloplasmin).
Increased plasma HDL and HDL-2 subfraction concentrations, reduced LDL cholesterol concentration, increased triplycerides levels.

trations, reduced LDL cholesterol concentration, increased triglycerides levels.

Impaired glucose tolerance. Reduced response to metyrapone test. 5.

6. Reduced serum folate concentration.

E. Carcinogenesis, Mutagenesis, and Impairment of Fertili-

ty. Long term continuous administration of natural and synthetic estrogens in certain animal species increases the frequency of carcinomas of the breast, uterus, cervix, va-gina, testis, and liver. See CONTRAINDICATIONS and WARNINGS.

F. Pregnancy Category X. Estrogens should not be used during pregnancy. See CONTRAINDICATIONS and BOXED WARNINGS.

BOXED WARNINGS. G. Nursing Mothers. As a general principle, the adminis-tration of any drug to nursing mothers should be done only when clearly necessary since many drugs are excreted in human milk. In addition, estrogen administration to nurs-ing mothers has been shown to decrease the quantity and quality of the milk. F. Pediatric Use. Safety and effectiveness in pediatric pa-tion was not how act holes due targe and reneated doses

F. Pediatric Use. Safety and enecuveness in periatic pa-tients have not been established. Large and repeated doses of estrogen over an extended pariod 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 extincts in whom hone growth is not commolete. pariodic patients in whom bone growth is not complete, periodic monitoring of bone maturation and effects on epiphyseal conters 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 throm-boembolic 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.

ADVERSE REACTIONS

The following additional adverse reactions have been reported with estrogen therapy (see WARNINGS regarding induction of neoplasia, adverse effects on the fetus, increased incidence of gallbladder disease, cardiovascular dis-, elevated blood pressure, and hypercalcemia).

- 1. Genitourinary system.
- Changes in vaginal bleeding pattern and abnormal withdrawal bleeding or flow; breakthrough bleeding, spotting.
- crease in size of uterine leiomyomata.

Vaginal candidiasis. Change in amount of cervical secretion.

Continued on next page

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Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

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Sync your system to PACER to automate legal marketing.

