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Try Aromatase Inhibitor for Subset of Breast Ca

BY MARY ANN MOON

FROM THE ASCO CLINICAL PRACTICE GUIDELINE PUBLISHED IN THE JOURNAL OF CLINICAL ONCOLOGY

n aromatase inhibitor should be considered as adjuvant therapy for all postmenopausal women with hormone receptor-positive breast cancer, according to an updated American Society of Clinical Oncology clinical practice guideline.

The optimal timing and duration of aromatase inhibitor (AI) treatment are not yet resolved, but it appears to reduce the risk of recurrence when taken at some time during adjuvant therapy - either alone as monotherapy, as sequential therapy before tamoxifen therapy commences or after 2-3 years of tamoxifen treatment, or as extended therapy after 5 years of tamoxifen is completed, said Dr. Harold J. Burstein of the Dana-Farber Cancer Institute, Boston, and his associates on ASCO's Endocrine Therapy for Breast Cancer Update Committee.

The last update on the adjuvant use of AIs for hormone receptor-positive breast cancer was published in 2004. "Our panel carefully reviewed the explosion of research that has emerged in the past 5 years on anti-estrogen drugs, and filled in gaps in our understanding of how best to use these

newer treatments, and what the trade-offs and side effects of therapy would be," Dr. Burstein noted in a press statement.

Their review focused on 12 prospective randomized clinical trials gleaned from 484 articles or abstracts from the medical literature, presentations, or posters.

The data are somewhat limited. Most of the studies had relatively short followup times, and the longest median followup was only 8 years. Because of that and

PREMARIN® (CONJUGATED ESTROGENS) VAGINAL CREAM BRIEF SUMMARY: See Package Insert for Full Prescribing Information. For further product information and current package insert, please visit www.premarinvaginalcreamhcp.com or call our medical communications department toll-free at 1-800-934-5556.

WARNING: CARDIOVASCULAR DISORDERS, ENDOMETRIAL CANCER, BREAST CANCER and PROBABLE DEMENTIA

ESTROGEN-ALONE THERAPY

ENDOMETRIAL CANCER

ENCUME FIAL WAVE IN The Construction of the co

CARDIOVASCULAR DISORDERS AND PROBABLE DEMENTIA CARDIOVASCULAR DISORDERS AND PROBABLE DEMENTIA Estrogen-alone therapy should not be used for the prevention of cardiovascular disease or dementia [see Warnings and Precautions (5.2, 5.4), and Clinical Studies (14.2, 14.3) in full prescribing information]. The Women's Health Initiative (WHI) estrogen-alone substudy reported increased risks of stroke and deep vein thrombosis (DVT) in postmenopausal women (50 to 79 years of age) during 7.1 years of treatment with daily oral conjugated estrogens (CE) [0.625 mg], relative to placebo [see Warnings and Precautions (5.2), and Clinical Studies (14.2) in full prescribing information]. The WHI Memory Study (WHIMS) estrogen alone ancillary study of WHI reported an increased risk of developing probable dementia in postmenopausal women 65 years of age or older during 5.2 years of treatment with daily OC (6.25 mg) alone, relative to placebo. It is unknown whether this finding applies to younger postmenopausal women [see Warnings and Precautions (5.4), Use in Specific Populations (8.5), and Clinical Studies (14.3) in full prescribing information]. In the absence of comparable data, these risks should be assumed to be similar for other doses

In the absence of comparable data, these risks should be assumed to be similar for other doses of CE and other dosage forms of estrogens.

Estrogens with or without progestins should be prescribed at the lowest effective doses and for the shortest duration consistent with treatment goals and risks for the individual woman. ESTROGEN PLUS PROGESTIN THERAPY CARDIOVASCULAR DISORDERS AND PROBABLE DEMENTIA

CARDIOVASCULAR DISORDERS AND PROBABLE DEMENTIA Estrogen plus progestin therapy should not be used for the prevention of cardiovascular disease or dem [see Warnings and Precautions (5.2, 5.4), and Clinical Studies (14.2, 14.3) in full prescribing information The WHI estrogen plus progestin substudy reported increased risks of DVT, pulmonary embolism, strol and myocardial infarction in postmenopausal women (50 to 79 years of age) during 5.6 years of treatm with daily oral CE (0.625 mg) combined with medroxprogesterone acetate (MPA) [2.5 mg], relative to placebo [see Warnings and Precautions (5.2), and Clinical Studies (14.2) in full prescribing information placeos (see Warnings and Precautions (5.2), and Clinical Studies (14.2) in full prescribing information The WHIMS estrogen plus progestin ancillary study of the WHI, reported an increased risk of devel probable dementia in postmenopausal women 65 years of age or older during 4 years of treatmer with daily CE (0.625 mg) combined with MPA (2.5 mg), relative to placebo. It is unknown whether this finding applies to younger postmenopausal women (see Warnings and Precautions (5.4), Use Specific Populations (8.5), and Clinical Studies (14.3) in ult prescribing information]. ons (5.4), Use in

BREAST CANCER

BREAST CANCEN The WHI estrogen plus progestin substudy also demonstrated an increased risk of invasive breast cancer [see Warnings and Precautions (5.3), and Clinical Studies (14.2) in full prescribing informati Cancer (see warnings and Precations (c.o), and chinical solutions (r4.c) in the presenting minimum and pre-In the absence of comparable data, these risks should be assumed to be similar for other doses of CE and MPA, and other combinations and dosage forms of estrogens and progestins. Estrogens with or without progestins should be prescribed at the lowest effective doses and for the shortest duration consistent with treatment goals and risks for the individual woman.

NDICATIONS AND USAGE

Treatment of Atrophic Vaginitis and Kraurosis Vulvae Treatment of Moderate to Severe Dyspareunia, a Symptom of Vulvar and Vaginal Atrophy, due to Me freatment of Moderate to Severe Dysp

CONTRAINDICATIONS PREMARIN Vaginal Cream therapy should not be used in women with any of the following condition

Indiagnosed abnormal genital bleeding
 Known, suspected, or history of breast cancer
 Known or suspected estrogen-dependent neoplasia
 Active deep vein thrombosis, pulmonary embolism or a history of these conditions
 Active atterial thromboembolic disease (for example, stroke, and myocardial infarction), or a history of these conditions

Known liver dysfunction or disease

Known thrombophilic disorders
Known or suspected pregnancy

WARNINGS AND PRECAUTIONS

Risks From Systemic Ab

Systemic absorption occurs with the use of PREMARIN Vaginal Cream. The warnings, precautions, and adverse reactions associated with oral PREMARIN treatment should be taken into account.

reactions associated with oral PHEMAHIN treatment should be taken into account. Cardiovascular Disorders An increased risk of stroke and deep vein thrombosis (DVT) has been reported with estrogen-alone An increased risk of pulmonary embolism, DVT, stroke and myocardial infarction has been reported estrogen plus progestin therapy. Should any of these occur or be suspected, estrogens with or with progestins should be discontinued immediately.

Risk factors for arterial vascular disease (for example, hypertension, diabetes mellitus, tobacco use hypercholesterolemia, and obesity) and/or venous thromboembolism (for example, personal history thromboembolism [VTE], obesity, and systemic lupus erythematosus) should be managed appropri

Stroke In the Women's Health Initiative (WHI) estrogen-alone substudy, a statistically significant increased risk of stroke was reported in women 50 to 79 years of age receiving dally CE (0.625 mg) compared to women in the same age group receiving placebo (45 versus 33 per 10,000 women-years). The increase in risk was demonstrated in year one and persisted *[see Clinical Studies (14.2)* **in full prescribing information**). Should a stroke occur or be suspected, estrogens should be discontinued immediately.

Subgroup analyses of women 50 to 59 years of age suggest no increased risk of stroke for those wor receiving CE (0.625 mg) versus those receiving placebo (18 versus 21 per 10,000 women-years).¹ In the WH estrogen plus progestin substudy, a statistically significant increased risk of stroke was reported in all women receiving daily CE (0.825 mg) plus MPA (2.5 mg) compared to placebo (33 versus 25 per 10,000 vomen-years) [see Clinical Studies (14.2) in *tull prescribing information*]. The increase in risk was demonstrated after the first year and persisted.¹

Coronary Heart Disease In the WHI estrogen-alone substudy, no overall effect on coronary heart disease (CHD) events (defined as nonfatal myocardial infarction [MI], silent MI, or CHD death) was reported in women receiving estrogen-a compared to placebo [see Clinical Studies (14.2) in full prescribing information].¹ en receiving estrogen-alone

Subgroup analyses of women 50 to 59 years of age suggest a statistically non-significant reduction in CHD events (CE 0.625 mg compared to placebo) in women with less than 10 years since menopause (8 versus 16 per 10,000 women-years).

In the WHI estrogen plus progestin substudy, there was a statistically non-significant increased risk of CHD events in women receiving daily CE (0.625 mg) plus MPA (2.5 mg) compared to women receiving placebo (41 versus 34

per 10,000 women-years).¹ An increase in relative risk was demonstrated in year 1, and a trend toward relative risk was reported in years 2 through 5 *[see Clinical Studies (14.2)* in full prescribing informati ard decreasing In postmenopausal women with documented heart disease (n = 2,763), average age 66.7 years, in a controlled clinical trial of secondary prevention of cardiovascular disease (Heart and Estrogen/Progestin Replacement

Study [HERS]), treatment with daily CE (0.625 mg) plus MPA (2.5 mg) demonstrated no cardiovascular benefit. During an average follow-up of 4.1 years, treatment with CE plus MPA did not reduce the overall rate of CHD events in postmenopausal women with established coronary heart disease. There were more CHD events in the CE plus MPA-treated group than in the placebo group in year 1, but not during subsequent users. Two thousand, three hundred and twenty-one (2,321) women from the original HERS trial agreed to participate in an open label extension of HERS, HERS II. Average follow-up in HERS II was an additional 2.7 years, for a total of 6.8 years overall. Rates of CHD events were comparable among women in the CE (0.625 mg) plus MPA (2.5 mg) group and the placebo group in HERS, HERS II, and overall.

mg) group and the placebo group in HERS, HERS II, and overall. Venous Thromboembolism (VTE) In the WH lestrogen-alone substudy, the risk of VTE (DVT and pulmonary embolism [PE]) was increased for women receiving daily CE (0.625 mg) compared to placebo (30 versus 22 per 10,000 women-years), although only the increased risk of DVT reached statistical significance (23 versus 15 per 10,000 women-years). The increase in VTE risk was demonstrated during the first 2 years' *(see Clinical Studies (14.2) in full prescribing information)*. Should a VTE occur or be suspected, estrogens should be discontinued immediately.

Intermation: Should a VTE occur of be suspected, estrogens should be discontinued infinited and in the WHI estrogen plus progestin substudy, a statistically significant 2-fold greater rate of VTE was reported in women receiving daily CE (0.625 mg) plus MPA (2.5 mg) compared to women receiving placebo (35 versus 17 per 10,000 women-years). Statistically significant increases in risk for both DVT (26 versus 13 per 10,000 women-years) and PE (18 versus 8 per 10,000 women-years) were also demonstrated. The increase in VTE risk was observed during the first year and persisted⁴ (see Clinical Studies (14.2) in full prescribing information). Should a VTE occur or be suspected, estrogens should be discontinued immediately. If feasible, estrogens should be discontinued at least 4 to 6 weeks before surgery of the type associated with an increased risk of thromboembolism, or during periods of prolonged immobilization.

Malignant Neoplasms

Malignant Neoplasms Endometrial Cancer An increased risk of endometrial cancer has been reported with the use of unopposed estrogen therapy in a woman with a uterus. The reported endometrial cancer risk among unopposed estrogen users is about 2- to 12-fold greater than in non-users, and appears dependent on duration of treatment and on estrogen dose. Most studies show no significant increased risk associated with use of estrogens for less than 1 year. The greatest risk appears to be associated with prolonged use, with increased risks of 15- to 24-fold for 5 to 10 years or more, and this risk has been shown to persist for at least 8 to 15 years after estrogen therapy is discontinued. Clinical surveillance of all women using estrogen-alone or estrogen plus progestin therapy is important. Adequate diagnostic measures, including directed or random endometrial sampling when indicated, should be undertaken to rule out malignancy in postmenopausal women with undiagnosed persistent or recurring abnormal genital beeding.

Tue our mangrancy in postmenopausal women with undiagnosed persistent or recurring abnormal generation becoming There is no evidence that the use of natural estrogens results in a different endometrial risk profile than synthetic estrogens of equivalent estrogen dose. Adding a progestin to postmenopausal estrogen therapy has been shown to reduce the risk of endometrial hyperplasia, which may be a precursor to endometrial cancer. In a 52-week clinical trial using PREMARIN Vaginal Cream alone (0.5 g) inserted twice weekly or daily for 21 days, then off for 7 days), there was no evidence of endometrial hyperplasia or endometrial carcinoma.

days, then off tof 7 days), there was no evidence of endometrial hyperplasia or endometrial carcinoma. *Breast Cancer* The most important randomized clinical trial providing information about breast cancer in estrogen-alone users is the Women's Health Initiative (WH) substudy of daily CE (0.625 mg). In the WHI estrogen-alone substudy, after an average follow-up of 7.1 years, daily CE (0.625 mg) was not associated with an increased risk of invasive breast cancer *[relative risk (RR) 0.80)⁺* [see *Clinical Studies (14.2)* **in full prescribing information**]. The most important randomized clinical trial providing information about breast cancer in estrogen plus progestin users is the WHI substudy of daily CE (0.625 mg) plus MPA (2.5 mg). After a mean follow-up of 5.6 years, the estrogen plus progestin substudy reported an increased risk of breast cancer in women who took daily CE plus MPA. In this substudy, prior use of estrogen-alone or estrogen plus progestin therapy was reported by 26 percent of the women. The relative risk of invasive breast cancer was 1.24, and the absolute risk was 41 versus 33 cases per 0.000 women-verse. for estrogen plus progestin compared with blacebo⁴ Among women who reported prior use the women. The relative risk of invasive breast cancer was 1.24, and the absolute risk was 41 versus 33 cases per 10,000 women-years, for estrogen plus progestin compared with placebo.⁶ Among women who reported prior use of hormone therapy, the relative risk of invasive breast cancer was 1.68, and the absolute risk was 46 versus 25 cases per 10,000 women-years for estrogen plus progestin compared with placebo. Among women who reported on prior use of hormone therapy, the relative risk of invasive breast cancer was 1.09, and the absolute risk was 40 versus 36 cases per 10,000 women-years for estrogen plus progestin compared with placebo. In the same substudy, invasive breast cancers were larger and diagnosed at a more advanced stage in the CE (0.625 mg) plus PMA (2.5 mg) group compared with the placebo group. Metastatic disease was rare, with no apparent difference between the two groups. Other prognostic factors, such as histologic subtype, grade and hormone receptor status did not differ between the groups [see Clinical Studies (14.2) in full prescribing information].

Such that under between the globals (see Culture) status (14.2) in prescripting information). Consistent with the WHI clinical trial, observational studies have also reported an increased risk of breast cancer for estrogen plus progestin therapy, and a smaller increased risk for estrogen-alone therapy, after several years of use. The risk increased with duration of use, and appeared to return to baseline over about 5 years after stopping treatment (only the observational studies have substantial data on risk after stopping). Observational studies also suggest that the risk of breast cancer was greater, and became apparent earlier, with estrogen plus progestin therapy as compared to estrogen-alone therapy. However, these studies have not generally found significant variation in the risk of breast cancer among different estrogen plus progestin combinations, doses, or routes of administration.

Cancer animing one-enit estrogen plus progestin combinations, obesis, or routes or administration. The use of estrogen-alone and estrogen plus progestin therapy has been reported to result in an increase in abnormal mammograms, requiring further evaluation. All women should receive yearly breast examinations by a healthcare provider and perform monthly breast self-examinations. In addition, mammograph examinations should be scheduled based on patient age, risk factors, and prior mammogram results.

Varian Cancer The WHI estrogen plus progestin substudy reported a statistically non-significant increased risk of ovarian cancer After an average follow-up of 5.6 years, the relative risk for ovarian cancer for CE plus MPA versus placebo, was 1.58 (95 percent RCI 0.77-3.24). The absolute risk for CE plus MPA versus placebo was 1.58 (95 percent RCI 0.77-3.24). The absolute risk for CE plus MPA versus placebo was 1.58 (95 percent RCI 0.77-3.24). The absolute risk for CE plus MPA versus placebo was associated with increased risk is not consistent across all epidemiologic studies, and some report no association.

In the estrogen-alone Women's Health Initiative Memory Study (WHIMS), an ancillary study of WHI, a population of 2,947 hysterectomized women 65 to 79 years of age was randomized to daily CE (0.625 mg) or placebo.

In the WHIMS estrogen-alone ancillary study, after an average follow-up of 5.2 years, 28 women in the estrogen-alone group and 19 women in the placebo group were diagnosed with probable dementia. The relative risk of probable dementia for CE-alone versus placebo was 1.49 (95 percent nCl 0.83-2.66). The absolute risk of probable dementia for CE-alone versus placebo was 37 versus 25 cases per 10,000 women-years⁸ [see Use in Specific Populations (8.3), and Clinical Studies (14.3) in full prescribing information, In the WHIMS estrogen plus progestin ancillary study, a population of 4,532 postmenopausal women 65 to 79 years of age was randomized to daily CE (0.625 mg) plus MPA (2.5 mg) or placebo.

After an average follow-up of 4 years, 40 women in the CE plus MPA group and 21 women in the placebo group were diagnosed with probable dementia. The relative risk of probable dementia for CE plus MPA versus placebo was 2.05 (95 percent nCl 1.21-3.48). The absolute risk of probable dementia for CE plus MPA versus placebo was 45 versus 22 cases per 10,000 women-years[®] [see Use in Specific Populations (8.3), and Clinical Studies (14.3) in full prescribing information].

When data from the two populations were pooled as planned in the WHIMS protocol, the reported overall relative risk for probable dementia was 1.76 (95 percent nCl 1.19-2.60). Since both substudies were conducted in women 65 to 79 years of age, it is unknown whether these findings apply to younger postmenopausal women⁶ [see Use in Specific Populations (8.5), and Clinical Studies (14.3) in full prescribing information]. Galibladder Disease

A 2- to 4-fold increase in the risk of gallbladder disease requiring surgery in postmenopausal women receiving estrogens has been reporte Hypercalcemia

alcerna n administration may lead to severe hypercalcernia in women with breast cancer and bone metastases calcernia occurs, use of the drug should be stopped and appropriate measures taken to reduce the um calcium level

(continued on next page)

patients' generally favorable prognoses, few breast cancer events occurred during follow-up

In addition, the assessment of important subgroups of patients was limited by relatively small sample sizes, and the small samples also limited analysis of quality-oflife data, Dr. Burstein and his colleagues said (J. Clin. Oncol. 2010 [doi:10.1200/ [CO.2009.26.3756]).

Among the major findings:

► Adding an AI to adjuvant therapy improves disease-free survival and reduces the risk of distant metastasis, locoregional recurrence, and contralateral breast cancer. The reduction is modest - typically less than 5% over several years - but these outcomes are clinically important to patients. Only a few trials demonstrated a statistically significant increase in overall survival.

► AI therapy should not extend beyond 5 years, as either initial or extended adjuvant treatment, because results on longerterm treatment are not yet available.

▶ The optimal length of time before switching from tamoxifen to an AI is not yet known. For sequential treatment, patients should receive an AI after 2-3 years of tamoxifen, for a total of 5 years of ad-

Vasodilatation

Digestive System

Nervous System

Cough Increased

Urogenital System

Musculoskeletal System

Diarrhea

Arthralgia

nsomnia **Respiratory System**

Pharyngitis

Breast Pain

Leukorrhe

Vaginitis

Miscellaneous

Geriatric Use

Renal Impairm

DRUG INTERACTIONS

No formal drug interactio Metabolic Interactions

USE IN SPECIFIC POPULATIONS

Sinusitis Skin And Appendages

Nauses

5 (3.5)

4 (2.8)

5 (3.5)

5 (3.5)

6 (4.2)

0

3 (2.1)

1 (0.7)

12 (8.4)

8 (5.6)

3 (2.1)

8 (5.6)

^a Body system totals are not necessarily the sum of the i report two or more different adverse events in the sam

Eyes Retinal vascular thrombosis, intolerance to contact lenses.

4 (5.6)

Table 1: Number (%) of Patients Reporting Treatment Emergent Adverse Events ≥ 5 Percent Only

2 (2.8)

4 (5.6)

5 (6.9)

3 (4.2)

1 (1.4)

2 (2.8)

3 (4.2)

7 (9.7)

1 (1.4)

2 (2.8)

3 (4.2)

Postmarketing Experience The following adverse reactions have been reported with PREMARIN Vaginal Cream. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Genitourinary System Abnormal uterine bleeding/spotting, dysmenorrhea/pelvic pain, increase in size of uterine leiomyomata, vaginitis (including vaginal candidiasis), change in cervical secretion, cystitis-like syndrome, application site reactions of vulvovaginal discomfort, (including burning, irritation, and genital pruritus), endometrial hyperplasia, endometrial cancer, precocious puberty, leukorrhea.

Breasts Tenderness, enlargement, pain, discharge, fibrocystic breast changes, breast cancer, gynecomastia in males.

Cardiovascular Deep venous thrombosis, pulmonary embolism, myocardial infarction, stroke, increase in blood pressure.

Central Nervous System Headache, migraine, dizziness, mental depression, nervousness, mood disturbances, irritability, dementia

Increase or decrease in weight, glucose intolerance, edema, arthralgias, leg cramps, changes in libido, urticaria, anaphylactic reactions, exacerbation of asthma, increased triglycerides, hypersensitivity.

Additional postmarketing adverse reactions have been reported in patients receiving other forms of hormone therapy

Metabolic Interactions In vitro and in vivo studies have shown that estrogens are metabolized partially by cytochrome P450 3A4 (CYP3A4). Therefore, inducers or inhibitors of CYP3A4 may affect estrogen drug metabolism. Inducers of CYP3A4, such as St. John's Wort (*Hypericum perforatum*) preparations, phenobarbital, carbamazepine, and rifampin, may reduce plasma concentrations of estrogens, possibly resulting in a decrease in therapeutic effects and/or changes in the uterine bleeding profile. Inhibitors of CYP3A4, such as erythromycin, clarithromycin, ketoconazole, itraconazole, ritonavir and grapefruit juice, may increase plasma concentrations of estrogens and may result in side effects.

Pregnancy PREMARIN Vaginal Cream should not be used during pregnancy *[see Contraindications (4)]*. There appears to be little or no increased risk of birth defects in children born to women who have used estrogens and progestins as an oral contraceptive inadvertently during early pregnancy.

Nursing Mothers PREMARIN Vaginal Cream should not be used during lactation. Estrogen administration to nursing mothers has been shown to decrease the quantity and quality of the breast milk. Detectable amounts of estrogens have been identified in the breast milk of mothers receiving estrogens. Caution should be exercised when PREMARIN Vaginal Cream is administered to a nursing woman.

Pediatric Use PREMARIN Vaginal Cream is not indicated in children. Clinical studies have not been conducted in the pediatric opoulation.

vertatric use There have not been sufficient numbers of geriatric women involved in clinical studies utilizing PREMARIN Vaginal Cream to determine whether those over 65 years of age differ from younger subjects in their response to PREMARIN Vaginal Cream. The Women's Health Initiative Study In the Women's Health Initiative Study In the Women's Health Initiative (VHI) estrogen-alone substudy (daily conjugated estrogens 0.625 mg versus placebo), there was a higher relative risk of stroke in women greater than 65 years of age *[see Clinical Studies (14.2)* in the Women's Health Initiative study is the strongen substudy (daily conjugated estrogens 0.625 mg versus placebo), there was a higher relative risk of stroke in women greater than 65 years of age *[see Clinical Studies (14.2)* in the Women's Health Initiative study is the strongen substudy (daily conjugated estrogens 0.625 mg versus placebo), there was a higher relative risk of stroke in women greater than 65 years of age *[see Clinical Studies (14.2)* in the Women's the strongen the strongen s

In the WHI estrogen plus progestin substudy, there was a higher relative risk of nonfatal stroke and invasive breas cancer in women greater than 65 years of age *[see Clinical Studies (14.2)* in full prescribing information].

The Women's Health Initiative Memory Study In the Women's Health Initiative Memory Study (WHIMS) of postmenopausal women 65 to 79 years of age, there

was an increased risk of developing probable dementia in women receiving estrogen-alone or estrogen plus progestin when compared to placebo [see Clinical Studies (14.3) in full prescribing information].

Since both ancillary studies were conducted in women 65 to 79 years of age, it is unknown whether these findings apply to younger postmenopausal women[®] *[see Clinical Studies (14.3) in full prescribing informa*

The effect of renal impairment on the pharmacokinetics of PREMARIN Vaginal Cream has not been studied.

action studies have been conducted for PREMARIN Vaginal Cream

Gastrointestinal Nausea, vomiting, abdominal cramps, bloating, increased incidence of gallbladder disease

Skin Chloasma that may persist when drug is discontinued, loss of scalp hair, hirsutism, rash.

juvant endocrine therapy. Alternatively, patients who begin an AI but discontinue it before 5 years have elapsed can consider taking tamoxifen until a total of 5 years of endocrine therapy accrue. For extended therapy, patients can be offered an AI after they have taken 5 years of tamoxifen. The data on extended therapy, however, are not as extensive as with sequential therapy.

► As of now, no clinically important differences in effectiveness have been reported among the three commercially available AIs (anastrozole, letrozole, and exemestane).

1 (1.5)

1 (1.5)

3 (4.4)

4 (5.9)

4 (5.9)

3 (4.4)

3 (4.4)

4 (5.9)

3 (4.4)

0

6 (8.8)

3 (4.4)

adverse events, since a patient may

7 (5.0)

10 (7.1)

3 (2.1)

6 (4.3)

4 (2.9)

7 (5.0)

7 (5.0)

2 (1.4)

16 (11.4)

4 (2.9)

4 (2.9

7 (5.0)

Visua	Ahnormalities	

	visual Abhormanues			
	Retinal vascular thrombosis has been reported in patients receiving estrogens. Discontinue medication pending			
	examination if there is sudden partial or complete loss of vision, or a sudden onset of proptosis, diplopia, or migraine.			
	If examination reveals papilledema or retinal vascular lesions, estrogens should be permanently discontinued.			
Addition of a Progestin When a Woman Has Not Had a Hysterectomy				
	Studios of the addition of a progestin for 10 or more days of a surgle of extragon administration or daily with			

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 an increased risk of breast cancer.

Elevated Blood Pressure 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 estrogen therapy on blood pressure was not seen.

Hypertriglyceridemia In patients with pre-existing hypertriglyceridemia, estrogen therapy may be associated with elevations of plasma triglycerides leading to pancreatilis. Consider discontinuation of treatment if pancreatilis occurs. Hepatic Impairment and/or Past History of Cholestatic Jaundice Estrogens may be poorly metabolized in women with impaired liver function. For women 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.

Hittle date of recurrence, increation should be development. Hypothyroidiam Estrogen administration leads to increased thyroid-binding globulin (TBG) levels. Women with normal thyroid function can compensate for the increased TBG by making more thyroid hormone, thus maintaining free T, and T_a serum concentrations in the normal range. Women dependent on thyroid hormone replacement therapy who are also receiving estrogens may require increased doses of their thyroid replacement therapy. These women should have their thyroid function monitored in order to maintain their free thyroid hormone levels in an acceptable range. Fluid Retention

Estrogens may cause some degree of fluid retention. Patients with conditions that might be influenced by this factor, such as cardiac or renal dysfunction, warrant careful observation when estrogens are prescribed. Hypocalcemia

Hypocalcema Estrogens should be used with caution in individuals with hypoparathyroidism as estrogen-induced hypocalcemia may occur.

Exacerbation of Endometriosis

A few cases of malignant transformation of residual endometrial implants have been reported in women treated post-hysterectomy with estrogen-alone therapy. For women known to have residual endometriosis post-hysterectomy, the addition of progestin should be considered.

Angioedema

Exogenous estrogens may induce or exacerbate symptoms of angloedema, particularly in women with heredilary angloedema.

Exacerbation of Other Conditions

Estrogen therapy may cause an exacerbation of asthma, diabetes mellitus, epilepsy, migraine, porphyria, systemic lupus erythematosus, and hepatic hemangiomas and should be used with caution in women with these conditions Effects on Barrier Contraception

PREMARIN Vaginal Cream exposure has been reported to weaken latex condoms. The potential for PREMARIN Vaginal Cream to weaken and contribute to the failure of condoms, diaphragms, or cervical caps made of latex or rubber should be considered.

Laboratory Tests

Laboratory rests Serum follice stimulating hormone and estradiol levels have not been shown to be useful in the management of moderate to severe symptoms of vulvar and vaginal atrophy.

of moderate to severe symptoms of vulvar and vaginal atrophy. **Drug-Laboratory Test Interactions** 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, XI, VII-X complex, II-VII-X complex, and beta-thromboglobulin; decreased levels of antifactor Xa and antithrombin III, decreased antithrombin III activity; increased levels of fibrinogen and fibrinogen activity; increased plasminogen antigen and activity. Increased thyroid-binding globulin (TBG) leading to increased circulating total thyroid hormone, as measured by protein-bound iodine (PB), T., levels (by column or by radioimmunoassay) or T₃ levels by radioimmunoassay, T₃ resin uptake is decreased, reflecting the elevated TBG. Free T₄ and free T₅ concentrations are unaltered. Women on thyroid replacement therapy may require higher doses of thyroid hormone.

Other binding proteins may be elevated in serum, for example, corticosteroid binding globulin (CBG), sex hormone-binding globulin (SHBG), leading to increased total circulating corticosteroids and sex steroids, respectively. Free hormone concentrations, such as testosterone and estradiol, may be decreased. Other plasma proteins may be increased (angiotensinogen/renin substrate, alpha-1-antitrypsin, ceruloplasmin).

Increased plasma HDL and HDL₂ cholesterol subfraction concentrations, reduced LDL cholesterol concentrations, increased triglyceride levels.

Impaired glucose tolerance.

ADVERSE REACTIONS

Cardiovascular Disorders (see Boxed Warning, Warnings and Precautions (5.2))
 Endometrial Cancer (see Boxed Warning, Warnings and Precautions (5.3))

Clinical Study Experience

Headache

Cardiovascular Syste

nfection

Pain

Because dinical trials are conducted under widely varying conditions, adverse reaction rates observed in the cinical trial of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

In a 12-week, randomized, double-blind, placebo-controlled trial of PREMARIN Vaginal Cream (PVC), a total of 423 postmenopausal women received at least 1 dose of study medication and were included in all safety analyses: 143 women in the PVC-21/7 treatment group (0.5 g PVC daily for 21 days, then 7 days off), 72 w Control for a control of the product of the prod

Table 1: Number (%) of Patients Reporting Treatment Emergent Adverse Events \ge 5 Percent Only Treat Placebo 21/7 PVC Placebo 2x/wk 2x/wk (n=140) Body System[®] Adverse Event (n=143 (n=72) Number (%) of Patients with Adv se Event Any Adverse Event 95 (66.4) 45 (62.5) 97 (69.3) 46 (67.6) Body As A Whole 11 (7 7) 2 (2 8) 9 (6 4) Т 6 (8 8) Abdominal Pain Accidental Injury Asthenia Back Pair

e					The effect of renal impairment of the pharmacokinetics of Phermanin vaginal creation has not been studied.	
	11 (7.7)	2 (2.8)	9 (6.4)	6 (8.8)	Hepatic Impairment The effect of hepatic impairment on the pharmacokinetics of PREMARIN Vaginal Cream has not been studied OVERDOSAGE Overdosage of estrogen may cause nausea and vomiting, breast tenderness, dizziness, abdominal pain, drowsiness/fatigue, and withdrawal bleeding in women, Treatment of overdose consists of discontinuation of PREMARIN therapy with institution of appropriate symptomatic care. This brief summary is based on PREMARIN Vaginal Cream Prescribing Information W104130022 ET01. Bev 05/10	
r	4 (2.8)	5 (6.9)	9 (6.4)	3 (4.4)		
	8 (5.6)	0	2 (1.4)	1 (1.5)		
	7 (4.9)	3 (4.2)	13 (9.3)	5 (7.4)		
	16 (11.2)	9 (12.5)	25 (17.9)	12 (17.6)		
	7 (4.9)	5 (6.9)	16 (11.4)	5 (7.4)		
	10 (7.0)	3 (4.2)	4 (2.9)	4 (5.9)		

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▶ Research to date has not revealed a specific marker that identifies patients most likely to benefit from AI therapy, nor a clinical subset of patients most likely to benefit

► AIs generally are well tolerated. The drugs have been linked to increased risk of hypercholesterolemia and hypertension, and possibly of cardiovascular disease, but longer follow-up is needed to determine potential CV toxicity.

Als also often cause a mild to moderate musculoskeletal/arthralgia syndrome. They have been associated with a greater loss of bone mineral density and a 2%-4% increased risk of fracture, compared with tamoxifen, but the long-term impact of treatment on bone is not yet known.

Als appear to have fewer gynecologic adverse effects than tamoxifen. An increased risk of uterine cancer, benign endometrial pathology, hysterectomy, and vaginal discharge has not yet been noted with AIs, as it has with tamoxifen. AIs may produce fewer hot flashes and less vaginal dryness than tamoxifen.

The committee stressed that the late effects of AI therapy, as well as the possible adverse effects of extended AI therapy,

As of now, no clinically important differences in effectiveness have been reported between the three commercially available Als.

have not yet been fully characterized.

The committee also noted that there is no evidence yet for or against the usefulness of AI therapy in men with breast cancer.

To facilitate treatment adherence, the updated guideline emphasized that clinicians should alert patients to common adverse effects and potential toxicities of AIs. Research shows that up to 40% of patients discontinue tamoxifen within 3 years and half do so within 5 years, and the findings with AIs are similar. The clear majority of patients who stop treatment prematurely do so because of adverse effects.

In particular, the musculoskeletal effects of AIs prompted discontinuation in more than 10% of women in one study. "Information support for patients about anticipated adverse effects and management of those adverse effects may increase persistence," according to the guideline.

Monetary constraints are another cause of nonadherence. In one study of tamoxifen, 60% of patients who discontinued treatment early said that the cost of the drug was a key factor. "It is likely that the out-of-pocket costs of AIs pose an even greater barrier to patients," the committee said.

The complete clinical practice guideline is available at www.asco.org/guidelines/ endocrinebreast. A corresponding patient guide is available on ASCO's patient Web site, www.cancer.net.

Disclosures: Some of the update committee members reported ties to Pfizer, Novartis, and AstraZeneca.