Diet, Exercise Improve Ca Survivors' Function

BY MARY ANN MOON

home-based diet and exercise program reduced the rate of functional decline in a study of more than 600 overweight and older cancer survivors, according to a trial involving more than 600 people.

Even modest lifestyle changes elicited by the program produced clinically meaningful improvements in physical

function and health-related quality of life for patients who were 5 years or more beyond their cancer diagnosis, said Miriam C. Morey, Ph.D., of Duke University's Center for the Study of Aging and Human Development, Durham, N.C., and her associates.

The researchers conducted a clinical trial in which 319 subjects were randomly assigned to the diet and exercise intervention and 322 were assigned to a

control group with no intervention. The study participants were long-term survivors of breast, prostate, and colorectal cancer with no evidence of progressive disease and no additional cancers.

The 1-vear intervention was conducted using telephone counseling and materials delivered by mail to the subjects' homes in 21 U.S. states, Canada, and the United Kingdom. The program included a workbook tailored to each participant's needs,

with recommendations for strength training (15 minutes daily), endurance training (30 minutes daily), increased intake of fruit and vegetables, restriction of saturated fat, and a goal of a 10% weight loss by the end of the program. It also provided subjects with pedometers, exercise bands for resistance training, guides for exercising and food portioning, and record logs for self-monitoring (JAMA 2009; 301:1883-91)

Counseling was conducted during 15 telephone counseling sessions, each 15- to 30-minutes long. There were also eight automated telephone calls during the 12month period, and participants received quarterly newsletters tailored for each individual to depict his or her progress. There were 50 dropouts in the intervention group and 33 in the control group.

After 1 year, global physical function declined half as much in the intervention group as in the controls—by 2.15 points on the Short-Form 36 physical function subscale in the intervention group and 4.84 points in the controls . A 2-point decline on this scale "is considered too small to be clinically detectable," while a 6-point decline is associated with higher mortality, said Dr. Morey and her colleagues, who reported no conflicts of interest. Health-related quality of life decreased in every subscale among the controls, but decreases were of lower magnitude in the intervention group.

The proportion of subjects who met recommendations for strength training was 28% with the intervention, compared with 11% among controls. A mean of 15% of the intervention group and 11% of the control group met recommendations for endurance exercise.

Sixteen percent of the intervention group met guidelines for fruit and vegetable intake, compared with 4% of the control group. And the intervention group reported a mean weight loss of 2.06 kg, compared with 0.92 kg for the control group.

Visual Abnormalities
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

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.

Televated 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.

Hypertriglyceride

In patients with pre-existing hypertriglyceridemia, estrogen therapy may be associated with elevations of plasma triglycerides leading to pancreatitis. Consider discontinuation of treatment if pancreatitis 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, ar the case of recurrence, medication should be discontinued.

nypomyroidism 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_4 and T_3 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.

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.

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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.

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 condition ts 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

Serum follicle 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.

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Drug/Laboratory Test Interactions

Accelerated prothrombin time, partial thromboplastin time, and platelet aggregation time; increased platelet count; increased factors II, VII antigen, VIII coagulant activity, IX, 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 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 (PBI), T_s levels (by column or by radioimmunoassay) or T_s levels by radioimmunoassay. T_s resin uptake is decreased, reflecting the elevated TBG. Free T_s and free T_s 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 HDL, cholesterol subfraction concentrations, reduced LDL cholesterol concentrations, increased triglyceride levels.

ADVERSE REACTIONS

Clinical Study Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials 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.

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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 women in the matching placebo treatment group; 140 women in the PVC-2v/wk treatment group (0.5 g PVC twice weekly), 68 women in the matching placebo treatment group. A 40-week, open-label extension follower in which a total of 394 women received treatment with PVC, including those subjects randomized at baseline to placebo. In this study, the most common adverse reactions • 每 percent are shown below (Table 1) [see Clinical Studies (14.1) in full Prescribing Information].

Table 1: Number (%) of Patients Reporting Treatment Emergent Adverse Events • •5 Percent Only						
	Treatment					
Body System ^a Adverse Event	PVC 21/7 (n=143)	Placebo 21/7 (n=72)	PVC 2x/wk (n=140)	Placebo 2x/wk (n=68)		
	Number (%) of Patients with Adverse Event					
Any Adverse Event	95 (66.4)	45 (62.5)	97 (69.3)	46 (67.6)		
Body As A Whole						
Abdominal Pain	11 (7.7)	2 (2.8)	9 (6.4)	6 (8.8)		
Accidental Injury	4 (2.8)	5 (6.9)	9 (6.4)	3 (4.4)		
Asthenia	8 (5.6)	0	2 (1.4)	1 (1.5)		
Back Pain	7 (4.9)	3 (4.2)	13 (9.3)	5 (7.4)		
Headache	16 (11.2)	9 (12.5)	25 (17.9)	12 (17.6)		
Infection	7 (4.9)	5 (6.9)	16 (11.4)	5 (7.4)		
Pain	10 (7.0)	3 (4.2)	4 (2.9)	4 (5.9)		
Cardiovascular System						
Vasodilatation	5 (3.5)	4 (5.6)	7 (5.0)	1 (1.5)		

Digestive System						
Diarrhea	4 (2.8)	2 (2.8)	10 (7.1)	1 (1.5)		
Nausea	5 (3.5)	4 (5.6)	3 (2.1)	3 (4.4)		
Musculoskeletal System						
Arthralgia	5 (3.5)	5 (6.9)	6 (4.3)	4 (5.9)		
Nervous System						
Insomnia	6 (4.2)	3 (4.2)	4 (2.9)	4 (5.9)		
Respiratory System						
Cough Increased	0	1 (1.4)	7 (5.0)	3 (4.4)		
Pharyngitis	3 (2.1)	2 (2.8)	7 (5.0)	3 (4.4)		
Sinusitis	1 (0.7)	3 (4.2)	2 (1.4)	4 (5.9)		
Skin And Appendages	12 (8.4)	7 (9.7)	16 (11.4)	3 (4.4)		
Urogenital System						
Breast Pain	8 (5.6)	1 (1.4)	4 (2.9)	0		
Leukorrhea	3 (2.1)	2 (2.8)	4 (2.9)	6 (8.8)		
Vaginitis	8 (5.6)	3 (4.2)	7 (5.0)	3 (4.4)		
* Body system totals are not necessarily the sum of the individual adverse events, since a patient may report two or more different adverse events in the same body system.						

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.

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

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.

Eyes
Retinal vascular thrombosis, intolerance to contact lenses.

Central Nervous System

Headache, migraine, dizziness, mental depression, nervousness, mood disturbances, irritability, dementia

Miscellaneous
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. DRUG INTERACTIONS

No formal drug interaction studies have been conducted for PREMARIN Vaginal Cream

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 uterial bleeding profile. Inhibitors of CYP3A4, such as erythromycin, clarithromycin, ketoconazole, itraconazole, irtonavir and grapefruit juice, may increase plasma concentrations of estrogens and may result in side effects.

USE IN SPECIFIC POPULATIONS

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.

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.

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

Geriatric 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.

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The Women's Health Initiative Study
In the Women's Health Initiative (WHI) 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 full Prescribing Information].

In the WHI estrogen plus progestin substudy, there was a higher relative risk of nonfatal stroke and invasive breast 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 (WHIMS) of postmenopausal women 65 to 79 years of age, there was an increased risk of developing probable dementia in the estrogen-alone and the estrogen plus progestin substudies when compared to placebo [see Clinical Studies (14.3) in full Prescribing Information]. Since both substudies 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 Information].

Renal Impairment

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

Hepatic Impairment

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

Overdosage of estrogen may cause nausea and vomiting, breast tenderness, dizziness, abdominal pain, drowsiness/fatigue, and withdrawal bleeding in females. 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 W10413C015, revised 11/08

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