Many Diabetes Patients Skip Annual Mammogram

BY KATE JOHNSON Montreal Bureau

QUEBEC CITY - One-third of menopausal women with diabetes do not receive annual screening mammography, according to results of a large study.

"Even though they had more frequent visits to physicians, compared with healthy women, women with diabetes have a 32% lower likelihood of getting mammograms," said Lorraine Lipscombe, M.D., a research fellow at the Institute for Clinical Evaluative Sciences, Toronto.

The retrospective study included approximately 69,000 women with diabetes, aged between 50 and 69 years, and compared them with about 663,000 controls of the same age, she reported at the joint annual meeting of the Canadian Diabetes Association and the Canadian Society of Endocrinology and Metabolism.

The women's medical records were taken from a provincial database as well as the Ontario Diabetes Database and tracked for 2 years, starting from their first physician visit to determine whether they had a screening mammogram, said Dr. Lipscombe, also of Sunnybrook and Women's College Health Sciences Centre,

Compared with healthy women, those with diabetes had more physician visits per year (nine versus seven) and were more likely to see a specialist (29% versus 11%). However, significantly fewer diabetic women had at least one screening mammogram during the study period (38% vs. 47%, odds ratio 0.68).

This finding is of particular concern in light of evidence that suggests there may be an increased risk of breast cancer in women with diabetes, Dr. Lipscombe told this newspaper.

The mechanism for this increased risk may be a higher rate of obesity in this population, which can predispose women to breast cancer. It may also be related to insulin exposure, she said.

"Not just treatment with insulin, but possibly also the fact that there is a state of insulin resistance for many years before the onset of diabetes. This means that the body makes more insulin than normal, and because insulin is a growth factor it can increase the risk of breast cancer," she said.

The study results suggest that primary preventive care may be suboptimal in diabetes patients, and physicians should consider ways to ensure that patients get regular mammography reminders, according to Dr. Lipscombe.

Patients with a history of jaundice during pregnancy have an increased risk of recurrence of jaundice white receiving estrogen-containing and contraceptive therapy. If jaundice develops in any patient receiving estrogen, the medication should be discortitioned white the cases is investigated. Estrogens may be poorly metabolized in patients with impaired liver function and should be administered with cau-tion in such patients.

tion in such patients.

B. Beause estippers influence the metabolism of calcium and phosphonis, they should be used with caution in patients with metabolic bore diseases that are associated with hyperaclemia or in patients with real insufficiency.

I. Beause of the effects of estrogen on epiphysical docure, they should be used judiciously in young patients in whom bone growth is not yet complete.

2. Insertion of the WIGFEM applicator—Patients with severely atroptic vaginal mucosa should be instructed to exercise care during insertion of the applicator After gynecological surgery, any vaginal applicator should be used with caution and only if clearly indicator.

3. Vaginal infection—Vaginal infection is generally more common in postmeropausal women due to the tack of normal flors seen in fertile women, especially lackfloatile here the subsequent higher I/N Juginal infections should be treated with appropriate antimicrobial therapy before initiation of VAGIFEM therapy.

Information for the Patient

infections should be treated with appropriate aritmicrobial therapy before initiation of VAG/FEM therapy.

B. Information for the Patient
See full prescribing information, NFORMATION FOR PATIENTS.

C. Drug/Laboratory Test Interactions
Certain endocrine and liver function lests may be effected by estrogen-containing oral contraceptives. The following similar changes may be expected with larger doses of estrogens:
a. Increased protherombin and factors VII, VIII, X, and X, decreased artithrombin III; increased nonepinephrine induced pitalete appreciability.
b. Increased thyroid binding globulin (TBG) leading to increased circulating total thyroid hormone, as measured by PBI, T, by column, or T, by radiominunosassy. Free T, resin uptake is decreased, reflecting the elevated TBG, free T, concentrations unlatered.

tion is unaltered.

c. Impaired plucose tolerance.

d. Reduced response to melyapone test.

e. Reduced ersum floidate concentration.

I. Increased serum triglyceride and phospholipid concentration.

D. Carcinogenesis, Nutragenesis and Impairment of Fertility

Long term confinuous administration of natural and synthetic estrogens in certain animal species increases the frequency of carcinomase of the breast, uterus, vagina and liver (see CONTRABIOCATIONS AND WARNINGS).

[see CONTRANSULUTIONS WITH THE THREE PROPERTY AND THE THREE PROPERTY AND THE STREET PROPERTY AND THE S

F. Nursing Mothers

F. Nursing Mothers

As a general principle, administration of any drug to nursing mothers should be done only when clearly necessary since many drugs are excited in human milk. In addition, estrogen administration to nursing mothers has een shown to decrease the quantity and quality of the milk. Estrogens are not indicated for the prevention of signarum breast engrogement.

Sidey and effectiveness in pediatric patients have not been essausance.

R. Geratric Use
Clinical studies of WGFEM did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the eldery and younger patients. In general, does selection for an eldery platent should be caudious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and connomitant disease or other drug therapy.

Vagifem

twice weekly thereafter

vaginal tablets IPV QDx2 weeks,

Adverse events generally have been mild: vaginal spotting, vaginal discharge, allergic reaction and skin rash. Adverse events with an incidence of 5% or greater are reported for two comparative trials. Data for patients receiving either VAGIFFM or locebo in the double bind study and VAGIFFM in the onen label comparator study are listed in the follow

ADVERSE EVENTS REPORTED IN 5% OR GREATER NUMBER OF PATIENTS RECEIVING VAGIEFM IN THE PLACERO CONTROLLED TRIAL

ADVERSE EVENT	VAGIFEM % (n=91)	Placebo % (n=47)
Headache	9	6
Abdominal Pain	7	4
Upper Respiratory Tract Infection	5	4
Genital Moniliasis	5	2
Back Pain	7	6

ADVERSE EVENTS REPORTED IN 5% OR GREATER NUMBER OF PATIENTS RECEIVING VAGIFEM IN THE OPEN LABEL STUDY

ADVERSE EVENT	VAGIFEM % (n=80)	
Genital Pruritus	6	
Headache	10	
Upper Respiratory Tract Infection	11	

Other adverse events that occurred in 3-5% of VAGIFEM subjects included: allergy, bronchitis, dyspepsia, haematuria, hot flashes, insomnia, pain, sinusitis, vaginal discomfort, vaginitis. A causal relationship to VAGIFEM has not been establishe OVERDOSAGE

DOSAGE AND ADMINISTRATION

VAGIFEM is cently inserted into the vacina as far as it can comfortably oo without force, using the supplied applicator www.tru is getty inserted into the vagina shar for as it can commonately go wimport more, using the subject apparatus.

I initial dose: One 1/ WAGEFM tables, inserted vaginally, once daily for two (2) weeks. It is advisable to have the patient administer treatment at the same time each idgy.

Maintenance dose; the (1) WAGEFM tables, this retail vaginally, twice weekly.

The need to continue therapy should be assessed by the physician with the patient. Attempts to discontinue or taper medication should be made at three to six month intervals.

of days interactions and the state of the st

Store at 25°C (77°F); excursions permitted to 15°C-30°C (59°F-86°F) [see USP Controlled Room Temperature].

VAGIFEM® is a trademark owned by Novo Nordisk A/S.

Valuer-EM* is a trademinar covineur by revor recursion. NJ 08540, USA 1-866-668-8336 1-806-668-8306 William William Committee of the Committee

Reference: 1. Rioux JE, Devlin MC, Gelfand MM, Steinberg WM, Hepburn DS. 17β-Estradiol vaginal tablet versus conjugated equine estrogen vaginal cream to relieve menopausal atrophic vaginitis. *Menopause*. 2000;7:156-16

©2004 Novo Nordisk Pharmaceuticals. Inc. January 2004 Printed in USA 127066

Anastrozole Deemed Cost-Effective

SAN ANTONIO — Anastrozole is a costeffective alternative to generic tamoxifen for primary adjuvant therapy in postmenopausal women with early-stage breast cancer, according to a new economic analysis.

Based upon the 68-month efficacy and safety data from the Arimidex, Tamoxifen, Alone or Together (ATAC) trial—see accompanying story-5 years of adjuvant anastrozole cost an estimated \$23,740 per quality-adjusted life-year gained beyond that achieved with 5 years of tamoxifen, Gershon Y. Locker, M.D., reported at a breast cancer symposium sponsored by the Cancer Therapy and Research Center.

That's well within the bounds of what's considered reasonably cost-effective and reimbursable by U.S. health care standards, which variously define the threshold for cost-effectiveness as \$50,000-\$100,000 per quality-adjusted life-year, noted Dr. Locker of Evanston (Ill.) Northwestern Healthcare and Northwestern

The estimated incremental cost-effectiveness for anastrozole compared to tamoxifen was \$29,132 per life-year gained without considering quality of life, the oncologist added.

His analysis used published (2004 Drug Topics Red Book) wholesale acquisition costs of \$6.56/day for anastrozole (Arimidex) and \$1.33/day for generic tamoxifen. The study factored in the direct medical costs of the increased rates of recurrent breast cancer, stroke, venous thromboembolism, and other adverse events associated with tamoxifen therapy, as well as the greater fracture risk entailed in anastrozole therapy.

—Bruce Jancin

VÁGIFEM[®]

Brief summary of prescribing information

ESTROGENS HAVE BEEN REPORTED TO INCREASE THE RISK OF ENDOMETRIAL CARCINOMA.

The independent case controlled values have reported an increased risk of endometrial cancer in postmenopausal women exposed to exogenous estrogens for more than one year. This risk was independent of the other known risk factors for endometrial cancer. These studies are buffer supported by the finding that incident risk of endometrial cancer have increased sharply since 1969 in eight different areas of the United States with population based cancer-reporting systems, an increase which may be related to the rapidly expanding use of estrogens during the last decades.

the last decade.

The three case-controlled studies reported that the risk of endometrial cancer in estrogen users was about 4.5 to 13.9 times greater than in nonusers. The risk appears to depend on both duration of treatment and no estrogen dose, in twelver these findings, when estrogens are used for the retement of menopausal symptoms, the lowest dose that will control symptoms should be utilized and medication should be discontinued as soon as possible. When prolonged retrainent is medically indicated, the patient should be reassessed, on at least a semi-annual basis, to determine the need for continued therapy.

Close clinical surveillence of all women taking estogens is important. In all cases of undiagnosed persistent or reoccurring abnormal vaginal bleeding, adequate diagnostic measures should be undertaken to rule out malignan-low.

oy. There is no evidence at present that "natural" estrogens are more or less hazardous than "synthetic" estrogens at equi-estrogenic doses.

INDICATIONS AND USAGE VAGIFEM is indicated for the treatment of atrophic vaginitis

NUMERIUMALINIS

Le use of WGETPH is contraindicated in women who exhibit one or more of the following:
Known or suspected breast carcinoma.

Known or suspected estrogen-dependent neoplasia; e.g., endometrial carcinoma.

Abromand gentral bleeding of unknown elibody;
Known or suspected pregiumary (see PECAUTIONS).

- Hypersensitivity to any VAGIFEM constituents.

 Active thrombophlebitis or thromboembolic dis
- recurse ununuquiments or triromboembolic disorders.

 A past history of thrombophlebitis, thrombosis, or thromboembolic disorders associated with previous estrogen use (except when used in treatment of breast malignancy).

WARNING

I. Induction of malignant neoplesms.
Long-term, continuous administration of natural and synthetic estrogens in certain arimal species increases the frequency of carcinomas of the breast, cervix, vegina, and liver. There are now reports that estrogers increase risk of carcinoma of satisfactory evidence that estrogers given to prosent fine there is present time there is non-term following or the control of the strongers increase the first process of the strongers in postmenopasaid women increase the first of cancer of the breast, although a recent long-term following of a single physician's practice has reased this possibility. Because of the animal data, there is a need for caution in prescribing estrogers for women with a strong farmly history of breast cancer or who have breast nod-ules, throwysic decises, or althornal marmnograms.

ules, fibrocyclic disease, or ahnomal mammograms.

2. *Calbiblatic Residents* 12: 10 3-fbdi increase in the fisk of surgically confirmed galibladder disease in women receiving postmerapease setogens, similar to the 2-fbdi increase previously noted in users of oral contraceptives.

3. *Effects similar to those caused by estrogen-propostogen and contraceptives*, most of which have not, up to now, been documented as consequences of postmerapease assistance where the comparatively low doses of documented as consequences of postmerapease estrogen therapy. This may reflect the comparatively low doses of documented as consequences of postmerapease estrogen therapy. This may reflect the comparatively low doses of documented as consequences of postmerapease estrogen therapy. This may reflect the comparatively low doses of documented as consequences of postmerapease estrogen therapy. This may reflect the comparatively low doses of documented as consequences of postmerapease estrogen therapy. This may reflect the comparatively low doses of documented as consequences of postmerapease estrogen the postmerapease estimated as the consequence of the comparative to the c

Lor or tests cancer are more usely to result in more survives emerges, and, in fact, it has been shown that mere is an increased risk of unknowns and thromboots were very extended to the contract thromboots and thromboots were soon of the strength of the problems, the strength of the more problems, strike, and important inflammations and inflammations, meeting the thromboots, and optic neurilis have been reported in ord undy. An increased risk of the strength of the more problems, strike, and under the strength of the strike in the s

risk. b. Hepatic adenoma. Benign hepatic adenomas appear to be associated with the oral contraceptives. Although benign, and rare, these may rupture and may cause death through intra-abdominal hemorrhage. Such lesions have not yet been reported in association with other estopen or progestopen preparations but should be considered in estrogen users having abdominal pain and tendeness, abdominal mass, or hyporolemic shock. Hepatocellutar acromoma has also been reported in novema taking estrogen-ortaniang rare dorateceptives. The relationship of this malignancy to these drugs is not known at this time. C. Evaluted blood pressure. When using oral contraceptives sometimes experience increased blood pressure which, ir most cases, returns to normal on discontinuing the drug. There is now a report that this may occur with the use of estrogen is the menicipase and blood pressure should be monitored with estrogen use, especially if high doses are used.

d. Glucose blerance. A vorosening of glucose tolerance has been observed in a significant percentage of patients on estrogen-containing oral contraceptives. For this reason, diabetic patients should be carefully observed while using estrogens.

4. Hypercalcernia.
Administration of estrogers may lead to severe hypercalcernia in patients with breast cancer and bone metast if this cours, the drug should be stopped and appropriate measures taken to reduce the serum calcium level.

Rare Event: Trauma induced by the VAGIFEM applicator may occur, especially in patients with severely atrophic vaginal mucosa. PRECAUTIONS

A General Procautions

1. 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 relevences to blood pressure, breast, advomen, and periodic organs, and should include a Paperandicau stream. As a perient lude, estrogens should not be prescribed for longer theylor organs, and should include a Paperandicau stream. As a perient lude, estrogens should not be prescribed for longer theylor organs, and should include a Paperandicau stream being performed.

2. Full deferrition—Because estrogens may cause some depres of laid identification, capitalion which might be influenced by this factors, and as administration proprieties and rest of solution regular careful doservation.

3. Familial hyperfroprofeterients—Estrogen therapy may be associated with massies elevations of plasma triglycardics leading to parametalists and other complications in patients with familial defects of poproben metabotism.

métabolism.

A Certain patients may develop undesirable manifestations of excessive estrogenic stimulation, such as abnormal or excessive uterine bleeding, masologina, etc.

P Prolinget administration of unoposoe etsorgen therapy has been reported to increase the risk of endometral hyperplassia in some patients.

P receivaing uterine leiomyomata may increase in size during estrogen user.

The pathologist should be advised of estrogen therapy when relevant specimens are submitted.