Rising GD Incidence Calls for Aggressive Screening

BY BETSY BATES Los Angeles Bureau

SAN FRANCISCO — The "fast and furious" increase in obesity in the United States and a correlative rise in the incidence of gestational diabetes justify aggressive screening of pregnant women for the disorder, Dr. E. Albert Reece said at Perspectives in Women's Health sponsored by OB.GYN. NEWS.

"The numbers are quite staggering,"

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said Dr. Reece, dean of the school of medicine and vice president of medical affairs at the University of Maryland, Baltimore.

Fifteen years ago, the incidence of gestational diabetes was 1%-3%. Today, it's 4%-8%, he said.

Screening is aimed at reducing the risk of perinatal loss, but it also confers what Dr. Reece termed "fringe benefits," namely, reducing the risk of fetal macrosomia, operative delivery, birth trauma, and metabolic derangements in the neonate. Screening raises awareness of the long-

term possibility of type II diabetes arising in the mother and, years later, the offspring

"Diabetes begets diabetes," said Dr. Reece, who advocates screening every pregnant woman for gestational diabetes at least once during pregnancy.

The tradition of screening at 24-28 weeks' gestation is "entirely arbitrary"chosen by convention to pick up 85% of cases while there is still time in the pregnancy to intervene.

However, clinicians should be aware that 15% of cases will be missed by screening at that time point.

'If you are very suspicious, due to habitus or history, repeat it at 33-34 weeks," he advised.

Choosing which test to use can be important, according to Dr. Reece.

Intravenous glucose tolerance testing is nonphysiologic, failing to simulate the

coronary heart disease. There were more CHD events in the CEMIPA-treated group than in the placebo group in year one, but not during the subsequent years. Two thousand three open-label extension of HERS, HERS II. Average follow-up in HERS I was an additional 2.7 years, for a total of 6.8 years overall. Rates of CHD events were comparable among years and additional 2.7 years, for a total of 6.8 years overall. Rates of CHD events were comparable among years during the placebo group in the HERS. It was an additional 2.7 years, for a total of 6.8 years overall. Rates of CHD events were comparable among years during the placebo group in the HERS. It was an additional 2.7 years, for a total of 6.8 years overall. Rates of CHD events were comparable among years during estimate to indissyncratic reactions to estrogens. In a large, randomized, placebo-controlled clinical trial, a generalized effect of estrogen therapy on blood pressure was not treat cancer of the prostate and breast, have been shown in a large prospective clinical trial in men to increase the risk of nonfatal myocardial infarction, pulmonary embolism, and thromboholiebitis.

to treat cancer of the prosatile and uncess, have been added to the probability of the pr

Ionged immobilization. Malignant neoplasms Endometrial cancer

prolonged immobilization.
2. Malignam teoplasms
a. Endometrial cancer
The use of unopposed estrogens in women with intact uteri has been associated with an
increased risk of endometrial cancer. The reported endometrial cancer risk among
unopposed estrogen users with an intact uterus is about 2- to 12-fold greater than in nonusers, and appears dependent on duration of treatment and on estrogen does. Most studies
show no significant increased risk associated with the use of estrogens for less than one
year. The greater streak proceed no duration of treatment and on estrogen does. Most studies
show no significant increased risk associated with prolonged use, with increased risks of 15to 24-fold for five to ten 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 taking estrogen-plus-progestin combinations is
important. Adequate diagnostic measures, including endometrial sampling when indicated,
bound be undinganced persistent or
recurring abnormal vaginal bleeding. There is no evidence that the use of natural estrogens
results in a different endometrial risk profile than synthetic estrogens of equivalent estrogens
results in a different endometrial risk profile than synthetic strogen divalent estrogen
reported to increase the risk of thread to read the most important randomized clinical trial
providing information about this issue is the Women's Health inflative (WH, (See CLINCAL
STUDIES in full Prescribing Information). The results from observational studies are
plus-progestin combination therapy as compared to increased risk of treagen-alone
therapy, after several years of use. The oth WH clinical trial
Diservational studies have also reported an increased risk of strogen-alone
therapy, after several years of use. To both findings, the excess risk increased with
thueston use and apparent variable increased risk of breast cancer.
In some studies, the use of torus to baseline over about the years after stopp

mg daily was not associated with an increased risk of invasive breast cancer (RR 0.77, 95% nCl 0.59-10). In the estrogen-plus-progestin substudy, after a mean follow-up of 5.6 years, the WHI substudy reported an increased risk of breast cancer. Prior use of estrogen alone or estrogen-plus-progestin combination hormone therapy was reported by 25% of the absolute risk was 41 vs. 33 cases per 10,000 women-years, for estrogen-plus-progestin combination hormone therapy was per storgen-plus-progestin combination hormone therapy was per storgen-plus-progestin compared with placebo, respectively. Among women-years, for estrogen-plus-progestin compared with placebo, respectively. Among women-wears for estrogen-plus-progestin compared with placebo. Among women who reported no prior use of hormone therapy was set to 2000 women-years for estrogen-plus-progestin compared with placebo. Interview that a hashute risk was 40 vs. 36 cases per 10,000 women-years for estrogen-plus-progestin compared with placebo. Interview that invasive breast cancer was 1.09, and the absolute risk was 40 vs. 36 cases per 10,000 women-years for estrogen-plus-progestin clease was rare, with no apparent difference between the two groups. Other prognestic cleases was rare, with no apparent difference between the two groups. Other prognest for estrogen plus progestin has been reported to result in an increase in abnormal mammograms requiring further evaluation. All women should receive yearly breast factors, and prior mammogram results. **3. Dementia** In the estrogen-alone to 79, reservice and perform monthy breast self-examinations. In addition, of 2,97 / Npterechmined women aged 65 to 79 years was randomized with a placebo women aged 65 to 79 years was randomized wome

Trögens should not be used in individuals will any of the university consultors. Undiagnosed ahormal genital bleeding. Known, suspected, or history of cancer of the breast except in appropriately selected patients being treated for metastatic cikease. Known or suspected estrogen-dependent neoplasia. Active deep veni thrombosis, pulmonary embolism or a history of these conditions. Active or recent (e.g., within past year) arterial thromboembolic disease (e.g., stroke, myocardial infarction). Liver dysfunction or disease. Premarin tablets should not be used in patients with known hypersensitivity to their invorclients

3. Dementia In the estrogen-alone Women's Health Initiative Memory Study (WHIMS), a substudy of WHI, a population of 2,947 hysterectomized women aged 65 to 79 years was randomized to CE (0.625 mg daily) or placebo. In the estrogen-plus-progestin WHIMS substudy, a population of 4,532 postmenopausal women aged 65 to 79 years was randomized to CE/MPA (0.625 mg/2.5 mg daily) or placebo. In the estrogen-alone substudy, 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 protable dementia. The relative risk of probable dementia for CE alone. Placebo was 1,49 (95% CI 0.83-2.66). The absolute risk of probable dementia for CE alone. Placebo was 37 vs. 25 cases per 10.00 women - vars.

eStroger-aone group and is remained on the proceed and the second rect sequences and proceed and the second sec

in risk was demonstrated in year one and persisted. (See CLINICAL STUDIES in full As, in the estrogen-alone substudy of WHI, no overall effect on coronary heart disease (CHD) events (defined as non-fatal MI, silent MI, or death, due to CHD) was reported in women receiving estrogenes as busbudy of WHI, no overall effect on coronary heart disease (CHD) events (defined as non-fatal MI, silent MI, or death, due to CHD) was reported in women receiving estrogenes to substudy of WHI, a statistically significant increase in fate strogen-plus-progestin substudy of WHI, a statistically significant increase in fate strogen-plus-progestin substudy of WHI, a statistically significant increase in fate strogen-plus-progestin substudy of WHI, a statistically significant increase in fate strogen-plus-progestin substudy of WHI, a statistically significant increase in fate strogen-plus-progestin substudy of WHI, a statistically significant increase in fate missing are and persisted.
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 Also, in the estrogen-plus-progestin substudy of WHI, a statistically significant increase of high as a controlled of incertaic first effect on compared to women receiving ECMPA occord may prevention of cardiovascular disease (F-2RS), average a controlled of incertaic first effect on a cardia disease (F-2RS) average age (Fate and First effect) and and the disconfirme effect and would be induced by estrogen treatment alone. Cardiovascular benefit. During an average follow-up of 4.1 years, treatment with CE/MPA occord is a progestin for 10 or more days of a cycle of estrogen and instration, oraid with estrogen in a

seen. Blood pressure should be monitored at regular intervals during estrogen use.
 Hypertriglyceridemia In patients with pre-existing hypertriglyceridemia, estrogen therapy may be associated with elevations of plasma triglycerides leading to pancreatitis and other complications. In the HOPE study, the mean percent increase from baseline in serum triglycerides after one year of treatment with Premarin 0.625 mg, 0.45 mg, and 0.3 mg compared with placebo were 34.3, 30.2, 25.1, and 10.7, respectively. After two years of treatment, the mean percent changes were 47.6, 32.5, 19.0, and 5.5, respectively.
 Impaired liver function and past history of cholestatic jaundice Estrogens may be poorly metabolized in patients with impaired liver function. For patients with a history of cholestatic jaundice associated with past estrogen use or with pregnancy, caution should be exercised, and in the case of recurrence, medication should be discontinued.
 Hypothyroidia

5. Hypothymidia Estrogen administration leads to increased thyroid-binding globulin (TBG) levels. Patients with normal thyroid function can compensate for the increased TBG by making more thyroid hormone, thus maintaining free T_4 and T_3 serum concentrations in the normal range. Patients dependent on thyroid hormone replacement therapy who are also receiving estrogens may require increased does of their thyroid replacement therapy. These patients should have their thyroid function monitored in order to maintain their free thyroid hormone levels in an acceptable range. 6. Fluid retention

6. Fuid retention Because 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.

aretur observation when estrogens are prescribed. *Hypocalcemia* strogens should be used with caution in individuals with severe hypocalcemia. *Ovarian cancer*

Ovarian cancer
 The estrogen-policy-progestin substudy of WHI reported that after an average follow-up of 5.6 years, the relative risk for ovarian cancer for estrogen plus progestin vs. placebo was 1.56 (95% nCl 0.77 – 3.24), but was not statistically significant. The absolute risk for estrogen plus progestin vs. placebo was 4.2 vs. 2.7 cases per 10,000 women-years. In some epidemiologic studies, the use of estrogen-only products, in particular for 10 or more years, has been associated with an increased risk of ovarian cancer. Other epidemiologic studies have not found these associations.
 Scarerhation of endometriosis

epidemiologic studies have not found these associations. 9. Exacerbation of endometriosis Endometriosis may be exacerbated with administration of estrogen therapy. Malignant transformation of residual endometrial implants have been reported in women treated post-hysterectomy with estrogen-alone therapy. For patients known to have residual endometriosis post-hysterectomy, the addition of progestin should be considered. 10. Exacerbation of other conditions. 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 patients with these conditions. B. Patient Information Acci Asth Back Flu s

Concern information
Physicians are advised to discuss the contents of the PATIENT INFORMATION leaflet with
patients for whom they prescribe Premarin.
C. Laboratory Tests
Storgen administration should be infine a stories

ests stration should be initiated at the lowest dose for the treatment of Mus

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Other binding proteins may be elevated in serum, i.e., corticosteroid binding globulin (CBG), sex hormone binding globulin (SHBG), leading to increased total circulating corticosteroids and sex steroids, respectively. Free hormone concentrations may be decreased. Other plasma proteins may be increased total circulating corticosteroids and sex steroids, respectively. Free hormone concentrations may be decreased (angiotensinogen/renin substrate, alpha-1-anthypsin, ceruloplasmin).
 Increased plasma HDL and HDL₂ cholesterol subfraction concentrations, reduced LDL cholesterol concentrations, increased triglyceride levels.
 Impaired glucose tolerance.
 Reduced response to metyrapone test.
 Carcinogenesis, Watagenesis, Impairment of Fertility
 (See BOXED WARNINGS, WARNINGS, and PRECAUTIONS.)
 Long-term continuous administration of natural and synthetic estogens in certain animal species increases the frequency of carcinomas of the breast, uterus, cervix, vagina, testis, and liver.

F. Pregnancy Premarin should not be used during pregnancy. (See CONTRAINDICATIONS.) G. Nursing Mothers

Estrogen administration to nursing mothers has been shown to decrease the quantity and quarity of the milk. Detectable amounts of estrogens have been identified in the milk of mothers receiving this drug. Caution should be exercised when Premarin is administered to environment. iers reu nursing won **Hatric Use** rrapy H. Ped

replating USE rogen therapy has been used for the induction of puberty in adolescents ns of pubertal delay. Safety and effectiveness in pediatric patients have no nearbhilteness.

been established. Large and repeated doses of estrogen over an extended time period have been shown to accelerate epiphyseal closure, which could result in short stature if treatment is initiated before the completion of physiologic puberty in normally developing children. If estrogen is administered to patients whose bone growth is not complete, periodic monitoring of bone maturation and effects on epiphyseal centers is recommended during estrogen administration.

administration. Estrogen treatment of prepubertal girls also induces premature breast development and avaginal comfication, and may induce vaginal bleeding. In boys, estrogen treatment may modify the normal pubertal process and induce gynecomastia. (See INDICATIONS AND USAGE and DAGAGE AND ADMINISTRATION.) I. Certatric Use

USAGE and DOSAGE AND ADMINISTRATION) I. Geriatric Use Of the total number of subjects in the estrogen-alone substudy of the Women's Health initiative (WHI) study, 49% (m=4,943) were 65 years and over, while 7.1% (m=767) were 75 years and over. There was a higher relative misk (CE vs. placebo) of stroke in women less than 75 years of age compared to women 75 years and over, in the estrogen-alone Women's Health initiative Memory Study (WHIMS), a substudy of WHI, a population of 2,947 hysterectomized women, aged 65 to 79 years, was randomized to CE (0.625 mg daily) or placebo. After an average follow-up of 5.2 years, the relative risk (CE vs. placebo) of probable dementia was 1.49 (95% CI 0.83-266). The absolute risk of developing probable dementia with estrogen alone was 37 vs. 25 cases per 10,000 women-years with placebo. Of the total number of subjects in the estrogen-plus-progestin substudy of the Woments stroke and invasive breast cancer in women 75 and over compared to women less than

75 years of age. In women greater than 75, the increased risk of non-fatal stroke and invasive breast cancer observed in the estrogen-plus-progestin combination group compared to the placebo group was 75 ws. 24 per 10,000 women-years and 52 vs. 12 per 10,000 women years, respectively. In the estrogen-plus-progestin WHMS substudy, a population of 4,532 postmenopausal women, aged 65 h 07 years, was randomized to CE/MPA (0.625 mg/2.5 mg daily) or placebo. In the estrogen-plus-progestin group, after an average follow-up of four years, the relative risk (CE/MPA vs. placebo) of probable dementia with CE/MPA Was 45 ws. 22 cases per 10,000 women-years set of probable dementia with CE/MPA Was 45 ws. 22 cases per 10,000 women-years set of probable dementia work. CE/MPA Was 45 ws. 22 cases per 10,000 women-years set of probable dementia work. CE/MPA Was 45 ws. 22 cases per 10,000 women-years set of probable dementia work. CE/MPA Was 45 ws. 22 cases per 10,000 women-years set of probable dementia work. CE/MPA Was 45 ws. 25 cases per 10,000 women-years set of probable dementia occurred in women that were other than 70 for the CE group, and 82 percent of the cases of probable dementia for CE/MPA (0.52 mg dail). The reported overall relative risk for probable dementia was 1.76 (95 % CI 1.9-2.60). Since both substudies were conducted in women aged 65 for 79 years, it is unknown whether these findings apply to younger postmenopausal women. (See **BOXED WARNINGS, and VARNINGS, Dementia**). **MWARNINGS and UARNINGS, Dementia**). **MWARNINGS and UARNINGS, and PRECAUTIONS**. Because dinical triaks are conducted in widely varying response to Premain. **ADVERSE REACTONS**. Because dinical triaks are conducted out widely varying monthos, adverse reaction rates observed in the clinical toris at a dra conducted out freed widely varying to rates in the clinical triaks and conditions adverse reaction rates observed in the clinical triaks of a dra conducted wide widely varying to raditions, adverse reaction rates observed i

See BUKED WARNINGS, WARNINGS, and PRECAUTIONS. 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. The adverse reaction information from clinical trials does, however, provide a basis for identifying the adverse events that appear to be related to drug use and for approximating rates. During the first year of a 2-year clinical trial with 2.333 postmenopausal women between 40 and 65 years of age 48% Caucesian, 1012 women were treaded with between 40 and 65 years of age 48% Caucesian, 1012 women were treaded with adverse events that occurred at a rate of 2 5%. TRIE F A UNIMEER 6A) OF DATEMEER DEPORTURE SET

TABLE 6. NUMBER (%) OF PATIENTS REPORTING ≥ 5% TREATMENT EMERGENT ADVERSE EVENTS

 Conjugated Estrogens Treatment Group — 				
Body System	0.625 mg	0.45 mg	0.3mg	Placebo
Adverse event	(n = 348)	(n = 338)	(n = 326)	(n = 332)
Any adverse event	323 (93%)	305 (90%)	292 (90%)	281 (85%)
Body as a Whole				
Abdominal pain	56 (16%)	50 (15%)	54 (17%)	37 (11%)
Accidental injury	21 (6%)	41 (12%)	20 (6%)	29 (9%)
Asthenia	25 (7%)	23 (7%)	25 (8%)	16 (5%)
Back pain	49 (14%)	43 (13%)	43 (13%)	39 (12%)
Flu syndrome	37 (11%)	38 (11%)	33 (10%)	35 (11%)
Headache	90 (26%)	109 (32%)	96 (29%)	93 (28%)
Infection	61 (18%)	75 (22%)	74 (23%)	74 (22%)
Pain Discretion Contorn	58 (17%)	61 (18%)	66 (20%)	61 (18%)
Digestive System	01 (00/)	05 (70()	10 (00))	01 (09()
Diarrhea	21 (6%)	25 (7%)	19 (6%)	21 (6%)
Dyspepsia	33 (9%) 24 (7%)	32 (9%) 23 (7%)	36 (11%) 18 (6%)	46 (14%) 9 (3%)
Flatulence	24 (7%) 32 (9%)	23 (7%) 21 (6%)		9 (3%) 30 (9%)
Nausea Musculoskeletal System	32 (9%)	21 (0%)	21 (6%)	30 (9%)
Arthralgia	47 (14%)	42 (12%)	22 (7%)	39 (12%)
Leg cramps	19 (5%)	23 (7%)	11 (3%)	7 (2%)
Myalgia	18 (5%)	18 (5%)	29 (9%)	25 (8%)
Nervous System	10 (370)	10 (370)	25 (570)	23 (0 /0)
Depression	25 (7%)	27 (8%)	17 (5%)	22 (7%)
Dizziness	19 (5%)	20 (6%)	12 (4%)	17 (5%)
Insomnia	21 (6%)	25 (7%)	24 (7%)	33 (10%)
Nervousness	12 (3%)	17 (5%)	6 (2%)	7 (2%)
Respiratory System	12 (070)	(0.76)	0 (270)	. (270)
Cough increased	13 (4%)	22 (7%)	14 (4%)	14 (4%)
Pharyngitis	35 (10%)	35 (10%)	40 (12%)	38 (11%)
Rhinitis	21 (6%)	30 (9%)	31 (10%)	42 (13%)
Sinusitis	22 (6%)	36 (11%)	24 (7%)	24 (7%)
Upper respiratory infection	42 (12%)	34 (10%)	28 (9%)	35 (11%)
Skin and Appendages	. ,	. ,	. ,	. ,
Pruritus	14 (4%)	17 (5%)	16 (5%)	7 (2%)
Urogenital System				
Breast pain	38 (11%)	41 (12%)	24 (7%)	29 (9%)
Leukorrhea	18 (5%)	22 (7%)	13 (4%)	9 (3%)
Vaginal hemorrhage	47 (14%)	14 (4%)	7 (2%)	0
Vaginal moniliasis	20 (6%)	18 (5%)	17 (5%)	6 (2%)
Vaginitis	24 (7%)	20 (6%)	16 (5%)	4 (1%)
The following additional adverse reactions have been reported with estrogen and/or				
progestin therepy:				

Genitourinary system
 Changes in vagina bleeding pattern and abnormal withdrawal bleeding or flow; breakthrough bleeding, spotting, dysmenorrhea; increase in size of uterine leiomyornata; vaginis, including vaginal candidiasis; change in amount of cervical secretion; change in cervical actropion; ovarian cancer; endometrial hyperplasia; endometrial cancer.

Tenderness, enlargement, pain, discharge, galactorrhea, fibrocystic breast cl breast cancer.

3. Cardiovascular Deep and superficial venous thrombosis, pulmonary embolism, thrombophlebitis myocardial infarction, stroke, increase in blood pressure

4. Gastrointestinal Nausea, vomiting; abdominal cramps, bloating; cholestatic jaundice; increased incidence of gallbladder disease; pancreatitis; enlargement of hepatic hemangioma

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Retinal vascular thrombosis, intolerance to contact lenses

Miscelarieus
 Increase or decrease in weight; reduced carbohydrate tolerance; aggravation of porphyria; edema; arthratgias; leg cramps; changes in libido; urticaria, angioedema, anaphytactioi/anaphylactic reactions; hypocalcemia; exacerbation of asthma; increased tribuyendes

OVERDOSAGE

OVENUOSAGE Serius ill effects have not been reported following acute ingestion of large doses of estrogen-containing drug products by young children. Overdosage of estrogen may cause nausea and vomiting, and withdrawal bleeding may occur in females. This hird summary is based on PREMARIN[®] (conjugated estrogens tablets, USP) Prescribing Information W10405C017 ET01, revised April 2006.

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ESTROGENS INCREASE THE RISK OF ENDOMETRIAL CANCER ESTRUCENS INVIERSE THE TISS OF ENDINE THAL VARIAGE Close clinical surveillance of all women taking estrogens is important. Adequate tidagnostic 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 the use of "natural" estrogens results in a different endometrial risk profile than synthetic estrogens of equivalent estrogen dose. (See WARNINGS, Malignant neoplasms, Endometrial cancer.)

CARDIOVASCULAR AND OTHER RISKS

Estrogens with or without progestins should not be used for the prevention of cardiovascular disease or dementia. (See WARNINGS, Cardiovascular disorders and Dementia.) The estrogen-alone substudy of the Women's Health Initiative (WHI) reported increased risks of stroke and deep vein thrombosis (DVT) in postmenopausal women (50 to 79 years of age) during 6.8 years of treatment with oral conjugated estrogens (CE 0.625 mg) per day relative to placebo. (See CLINICAL STUDIES in full Prescribing Information and WARNINGS, Cardiovascular disorders.)

WARNINGS, Cardiovascular disorders.) The estrogen-plus-progestin substudy of the WHI reported increased risks of myocardial infarction, stroke, invasive breast cancer, pulmonary emboli, and deep vein thrombosis in postmenopausal women (50 to 79 years of age) during five years of treatment with oral conjugated estrogens (CE 0.625 mg) combined with medroxyprogesterone acetate (MPA 2.5 mg) per day relative to placebo. (See CLINICAL STUDIES in full Prescribing Information and WARNINGS, Cardiovascular disorders and Malignant neoplasms, Information and wArNINGS, Cardiovascular disorders and Malignam neoplasms, Breast cancer) The Women's Health Initiative Memory Study (WHIMS), a substudy 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 CE 0.625 mg alone and during flour years of treatment with CE 0.625 mg combined with MPA 2.5 mg, relative to placeb. It is unknown whether this finding applies to younger postmenopausal women. (See CLINICAL STUDIES in full Prescribing Information and, WARNINGS, Dementia and PRECAUTIONS, Geriatric Use.) Other doses of conjugated estrogens and medroxyprogesterone acetate, and other combinations and dosage forms of estrogens and progestins, were not studied in the WHI circlinal trials, and in the absence of comparable dath, these risks should be assumed to be similar. Because of these risks, estrogens with or without progestins should be prescribed at the lowest effective doses and for the shortest duration consistent with treatment gais and risks for the individual woman.

DICATIONS AND USAGE emarin therapy is indicated in the: Treatment of moderate to severe vasomotor symptoms associated with the menopause. Treatment of moderate to severe symptoms of vulvar and vaginal atrophy associated with the menopause. When prescribing solely for the treatment of symptoms of vulvar and vaginal atrophy, topical vaginal products should be considered. Treatment of hypoestrogenism due to hypogonadism, castration or primary ovarian foluce.

men with metastatic disease. Treatment of advanced androgen-dependent carcinoma of the prostate (for palliation

only). 6. Prevention of postmenopausal osteoporosis. When prescribing solely for the prevention of postmenopausal osteoporosis, therapy should only be considered for women at significant risk of osteoporosis and for whom non-estrogen medications are not considered to be appropriate. Cee **CLINCE. STUDES** in UIP rescribing Information.) The mainstays for decreasing the risk of postmenopausal osteoporosis are weight-bearing exercise, adequate calcium and vitamin D linkae, and when indicated, pharmacologic therapy. Postmenopausal women require an average of 1500 mg/day of elemental calcium. Therefore, when not contraindicated, calcium supplementation of 400-800 IU/day may also be required to ensure adequate daily intake in postmenopausal women. **CONTRAININGATIONE**

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

Ingredients. Known or suspected pregnancy. There is no indication for Premarin in pregnancy. There appears to be little or no increased risk of birth defects in children born to women who have used estrogen and progestims from oral contraceptives inadvertently during pregnancy. (See **PRECAUTIONS**.)

Cardiovascular disorders
 Estogen and estrogen-plus-progestin therapy have been associated with an increased
 risk of cardiovascular events such as myocardial infarction and stroke, as well as venous
 thrombosis and pulmonary embolism (venous thromboembolism or VTE). Should any of
 these occur or be suspected, estogens should be discontinued immediately.
 Risk factors for arterial vascular disease (e.g., hypertension, disedes mellitus, tobacco
 use, hypercholesterolemia, and obesity) and/or venous thromboembolism (e.g., personal
 history or family history of VTE, obesity, and systemic lupus erythematosus) should be
 managed appropriately.

Initiativy in lating in local sectors and the sector of th

ent of breast cancer (for palliation only) in appropriately selected women and

and risks for the individual woman DICATIONS AND LISAGE

CONTRAINDICATIONS

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normal process of glucose disposal, and therefore useless, he said.

Random blood glucose value testing isn't much better, since it is an insensitive test. "It should be used only when nothing else is available," he said. "It is better than nothing at all."

Capillary whole blood glucose testing uses a pinprick to obtain blood that is analyzed by a portable meter. It is convenient and cost-effective, but the meter should be calibrated regularly with results obtained in a hospital laboratory to ensure its accuracy.

Most common, of course, are fasting oral glucose tolerance tests.

These tests are most accurate when the pancreas is adequately primed prior to a 3hour glucose tolerance test. This cannot always be ensured when people skip meals or follow unusual diets, said Dr. Reece.

That's why he advises patients to eat two to three slices of bread with each meal for 3 days before the test, which involves drinking a glucose solution and having blood drawn 1 hour later.

Nicotine, caffeine, many drugs, bed rest,

Mild GD Raises Infants' Risk of Cryptorchidism

Mild gestational diabetes significantly raises the risk of cryptorchidism in male offspring, reported Dr. Helena E. Virtanen of the University of Turku, Finland, and her associates.

Even mothers who had an abnormal result on a single oral glucose tolerance test (OGTT) but no diabetes diagnosis were at increased risk of delivering a boy with cryptorchidism, the researchers reported (J. Clin. Endocrin. Metab. 2006 Oct. 10 [Epub doi:10.1210/jc.2006-1420]).

They reviewed the pregnancy records of 1,288 singleton boys born at one hospital who had participated in previous research. The 125 boys with congenital cryptorchidism served as cases in this study, and the 1,163 boys who had normal testicular descent at birth served as controls.

Among the cases, 13 mothers (10%) had diet-treated gestational diabetes, and an additional 7 (6%) had at least one abnormal result on OGTT but no diabetes diagnosis, for an overall 16%. In contrast, among the controls, only 47 mothers (4%) had a diabetes diagnosis and an additional 54 (5%) had an abnormal OGTT result, for an overall 9%.

The significantly elevated risk for cryptorchidism remained constant after the data were adjusted for known confounders such as advanced maternal age and maternal smoking, as well as for proposed risk factors that might confound the association, such as prematurity and low birth weight.

Maternal diabetes status had no apparent effect on the rate of spontaneous testicular descent by the age of 3 months or on the rate of bilateral vs. unilateral cryptorchidism. "Considering our results, the increasing prevalence of gestational diabetes may have considerable effect on [future] male reproductive health," Dr. Virtanen and her associates noted.

-Mary Ann Moon

and exertion may also interfere with test results.

If a patient vomits Glucola, the standard glucose solution used in fasting oral glucose tolerance testing, a culinary glucose polymer, Polycose, can be used instead, said Dr. Reece.

Even more palatable for some women is the jelly bean test, standardized by Boyd and associates and found to be "incredibly consistent" with Glucola in terms of sensitivity and specificity, and positive predictive value.

However, that accuracy is ensured only if one uses the exact protocol described by Boyd or one later tested by Lamar and colleagues: 18 or 26 Brach's jelly beans, with blood drawn 1, 2, and 3 hours later (Am. J. Obstet. Gynecol. 1995;173:1889-92 and Am. J. Obstet. Gynecol. 1999;181[5 pt. 1]:1154-7).

Two relatively new methods—glycohemoglobin A_1 and a fructosamine-based test—are too insensitive to be used in screening for gestational diabetes, Dr. Reece said.

A breakfast tolerance test involving a specific 600-kcal meal before the blood draw achieves a sensitivity of 75% and specificity of 95% if a 120-mg/dL value is used, and a sensitivity of 96% and specificity of 74% if a threshold is set at 100

mg/dL. It's acceptable, but "cumbersome" to adjust the thresholds, he said. "I've never used it."

A diagnosis of gestational diabetes is generally reserved for patients who have at least two abnormal oral glucose tolerance tests. Research suggests, however, that potential adverse pregnancy outcomes can occur with just one abnormal result, reflecting impaired glucose metabolism.

Dr. Reece believes one abnormal test warrants at least dietary therapy and retesting, while two abnormal tests during pregnancy may require more aggressive interventions, including oral glucose therapy and possibly insulin.



Three independent, case-controlled studies 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 further supported by the finding that incident rates 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 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 on estrogen dose. In view of these findings, when estrogens are used for the treatment of menopausal symptoms, the lowest dose that will control symptoms should be utilized and medication should be discontinued as soon as possible. When prolonged treatment is medically indicated, the patient should be reassessed, on at least a semiannual basis, to determine the need for continued therapy.

Close clinical surveillance of all women taking estrogens is important. In all cases of undiagnosed persistent or reoccurring abnormal vaginal bleeding, adequate diagnostic measures should be undertaken to rule out malignancy. There is no evidence at present that "natural" estrogens are more or less hazardous than "synthetic" estrogens at equi-estrogenic doses.

Other warnings include: induction of malignant neoplasms, gallbladder disease, effects similar to those caused by estrogen-progestogen oral contraceptives (such as thromboembolic disease, hepatic adenoma, elevated blood pressure, worsening of glucose tolerance), hypercalcemia, and rarely, trauma induced by the Vagifem[®] applicator.

In a placebo-controlled clinical trial, the most commonly reported adverse events included: headache (9%), abdominal pain (7%), upper respiratory tract infection (5%), genital moniliasis (5%), and back pain (7%).

The use of Vagifem[®] is contraindicated in women who exhibit one or more of the following: known or suspected breast carcinoma, known or suspected estrogendependent neoplasia, e.g., endometrial carcinoma, abnormal genital bleeding of unknown etiology, known or suspected pregnancy, porphyria, hypersensitivity to any Vagifem[®] constituents, active thrombophlebitis or thromboembolic disorders, or a past history of thrombophlebitis, thrombosis, or thromboembolic disorders associated with previous estrogen use (except when used in treatment of breast malignancy).