**OBSTETRICS** JUNE 2011 • OB.GYN. NEWS

# Race, Ethnicity Affect Adherence to GWG Recs

Major Finding: In terms of gestational weight gain, 20% of black women undergained, 27% appropriately gained, and 54% overgained. The statistics were, respectively, 15%, 26%, and 60% for white women; 22%, 38%, and 41% for Asian women; and 20%, 27%, and 54% for Hispanic women.

Data Source: A retrospective study using automated labor and delivery records of 11,992 women.

Disclosures: Ms. Holland said that she had no relevant financial disclosures.

BY NASEEM MILLER

FROM THE ANNUAL MEETING OF THE AMERICAN COLLEGE OF OBSTETRICIANS AND GYNECOLOGISTS

WASHINGTON - Adherence to gestational weight gain recommendations and prepregnancy body mass index varies significantly depending on race and ethnicity, Erica Holland reported.

In addition, black women were at the greatest risk of prepregnancy overweight or obesity while Asian women were at the greatest risk of being underweight. Meanwhile, the majority of black, white, and Hispanic women overgained weight during pregnancy.

When adjusted for age, marital

status, and several other factors, Asian, black, and Hispanic women had significantly decreased odds of gaining excessive weight compared with white women, even though the majority of black and Hispanic women gained weight excessively during pregnancy, according to study results presented at the meeting.

Black women were 1.56 times more likely to be overweight and 1.61 times more likely to be obese prior to pregnancy than their white counterparts. Hispanic women were 1.28 times more likely to be overweight, and 1.23 times more likely to be obese compared with white women. Asian women were 2.25 times more likely to be underweight and less likely to be overweight or obese compared with their white counterparts.

The findings have opened the door for further research on maternal and neonatal outcomes based on race and ethnicity and on gestational weight gain (GWG) adherence, which could in turn change recommendations, said Ms. Holland, a thirdyear medical student at the University of Massachusetts, Worcester, who presented the study findings.

She speculated that the variation could be caused by various factors such as cultural differences, maybe a genetic component, and disparities in weight gain advice given to women based on their race.

Evidence suggests GWG nonadherence is a risk factor for adverse birth outcomes. The Institute of Medicine updated its recommendations for GWG in 2009, giving a range based on the mother's body mass index (BMI). Women at a normal weight for their height (BMI of 18.5-24.9) should gain 25-35 pounds during pregnancy, underweight women (BMI less than 18.5) should gain 28-40 pounds, and overweight women (BMI of 25-29.9) should gain 15-25 pounds, according to the 2009 IOM guidelines. The recommendations, however, are not tailored based on race and ethnicity, Ms. Holland said.

To find the association of race and ethnicity with prepregnancy BMI and GWG adherence, researchers conducted a retrospective study using automated labor and delivery records of 11,992 women with a mean age of 29 years. In total, 70% of the women were multigravida, 69% were white, 18% Hispanic, 9% black, and 5% Asian; 91% of the women delivered full term.

In total, 3.8% of the population was underweight and 21% were obese before pregnancy. A quarter gained weight properly during pregnancy, said Ms. Holland, but 68% overgained weight during pregnancy. Prior to pregnancy, 2% of black women were underweight, 39% were normal weight, and 59% were overweight or obese. The statistics were, respectively, 3%, 51%, and 46% for white women; 9%, 73%, and 18% for Asian women; and 5%, 47%, and 48% for Hispanic women.

For GWG, 20% of black women undergained, 27% appropriately gained, and 54% over gained. The statistics were 15%, 26%, and 60% for white women; 22%, 38%, and 41% for Asian women; and 20%, 27%, and 54% for Hispanic women.

# LYSTEDA™

(tranexamic acid) tablets

BRIEF SUMMARY OF PRESCRIBING INFORMATION

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INDICATIONS AND USAGE

mic acid) Tablets is indicated for the treatment of cyclic heavy menstrual bleeding. Prior to prescribing LYSTEDA, exclude endometrial pathology that can be associated with heavy menstrual bleeding

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Thromboembolic Risk: Do not prescribe LYSTEDA to women who are known to have the following conditions: active thromboembolic disease (e.g., deep vein thrombosis, pulmonary embolism, or cerebral thrombosis): a history of thrombosis or thromboembolism, including retinal vein or artery occlusion; an intrinsic risk of thrombosis or thromboembolism (e.g., thrombogenic valvular disease, thrombogenic cardiac rhythm disease, or hypercoagulopathy). Venous and arterial thrombosis or thromboembolism, as well as cases of retinal artery and retinal vein occlusions, have been reported with tranexamic acid. Hypersensitivity to Tranexamic Acid: Do not prescribe LYSTEDA to women with known hypersensitivity to tranexamic acid [see Warnings and Precautions and Adverse Reactions].

#### WARNINGS AND PRECAUTIONS

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Thromboembolic Risk: Concomitant Use of Hormonal Contraceptives: Combination hormonal contraceptives are known to increase the risk of venous thromboembolism, as well as arterial thromboses such as stroke and myocardial infarction. Because LYSTEDA is antifibrinolytic, the risk of venous thromboembolism, as well as arterial thromboses such as stroke and myocardial infarction. Because LYSTEDA is antifibrinolytic, the risk of venous thromboembolism, as well as arterial thromboses such as stroke, may increase further when hormonal contraceptives are administered with LYSTEDA. This is of particular concern in women who are obese or smoke cigarettes, especially smokers over 35 years of age [see Contraindications and Drug Interactions]. Women using hormonal contraception were excluded from the clinical trials supporting the safety and efficacy of LYSTEDA, and there are no clinical trial data on the risk of thrombotic events with the concomitant use of LYSTEDA, and there are no clinical trial data on the risk of thrombotic events with the concomitant use of LYSTEDA with hormonal contraceptives. There have been US postmarketing reports of venous and arterial thrombotic events in women who have used LYSTEDA concomitantly with combined hormonal contraceptives. Women using hormonal contraceptives, specially those who are obese or smoke, should use LYSTEDA only if there is a strong medical need and the benefit of treatment will outweigh the potential increased risk of a thrombotic event. Do not use LYSTEDA in women who are taking more than the approved dose of a hormonal contraceptive. Eactor IX Complex Concentrates or Anti-Inhibitor Coagulant Concentrates in LYSTEDA is not recommended for women taking either Factor IX complex concentrates or anti-Inhibitor coagulant effect of all-trans retinoic acid for remission induction because of possible exacerbation of the procagulant effect of all-trans retinoic acid for remission induction because of possible exacerbation of the procagulant effect of all-t

# ADVERSE REACTIONS

Clinical Trial Experience: Because clinical trials are conducted

ADVERSE REACTIONS

Clinical Trial 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 the rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice. Short-term Studies: The safety of LYSTEDA in the treatment of heavy menstrual bleeding (HMB) was studied in two randomized, double-blind, placebo-controlled studies. One study compared the effects of two doses of LYSTEDA (1950 mg and 3900 mg given daily for up to 5 days during each menstrual period) versus placebo over a 3-cycle treatment duration. A total of 304 women were randomized to this study, with 115 receiving at least one dose of 195TEDA. A second study compared the effects of LYSTEDA (3900 mg/day) versus placebo over a 6-cycle treatment duration. A total of 196 women were randomized to this study, with 117 receiving at least one dose of LYSTEDA. In both studies, subjects were generally healthy women who had menstrual blood loss of ≥80 mL. In these studies, subjects were 18 to 49 years of age with a mean age of approximately 40 years, had cyclic menses every 21-35 days, and a BMI of approximately 28 kg/m². On average, subjects had a history of HMB for approximately 10 years and 40% had fibroids as determined by transvaginal ultrasound. Approximately 70% were Caucasian, 25% were Black, and 5% were Asian, Native American, Pacific Islander, or Other. Seven percent (7%) of all subjects were of Hispanic origin. Women using hormonal contraception were excluded from the trials. The rates of discontinuation due to adverse events during the two clinical trials were companable between LYSTEDA and placebo. In the 3-cycle study, the rate in the 3900 mg/tSTEDA was 947 cycles and the average duration of use was 3.4 days per cycle. The following adverse events occurred in ≥5% of subjects and more frequently in LYSTEDA-treated subjects receiving 3900 mg/day (N=232) compared to 1.4% in the placebo (N=

through 9 menstrual cycles. A total of 2.1% of the subjects withdrew due to adverse events. The total exposure to 3900 mg/day LYSTEDA in this study was 1,956 cycles. The average duration of LYSTEDA use was 3.5 days per cycle. The types and severity of adverse events in these two long-term open-label trials were similar to those observed in the double-blind, placebo-controlled studies although the percentage of subjects reporting them was greater in the 27-month study, most likely because of the longer study duration. A case of severe allergic reaction to LYSTEDA was reported in the extension trial, involving a subject on her fourth cycle of treatment, who experienced dyspnea, tightening of her throat, and facial flushing that required emergency medical treatment. **Postmarketing Experience**: The following adverse reactions have been identified from postmarketing experience with tranexamic acid. 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. Based on US and worldwide postmarketing reports, the following have been reported in patients receiving tranexamic acid for various indications: nausea, vomiting, and diarrhea, allergic skin reactions, anaphylactic shock and anaphylacticid reactions, thromboembolic events (e.g., deep vein thrombosis, pulmonary embolism, cerebral thrombosis, acute renal cortical necrosis, and central retinal artery and vein obstruction), impaired color vision and other visual disturbances, dizziness.

### DRUG INTERACTIONS

ig-drug interaction studies were conducted with LYSTEDA. Hormonal Contraceptives: Because LYSTEDA is antifibrinolytic, concomitant use of hormonal contraception and LYSTEDA may further exacerbate the increased thrombotic risk associated with combination hormonal contraceptives. Women exacerbate the increased thrombotic risk associated with combination hormonal contraceptives. Women using hormonal contraception should use LYSTEDA only if there is a strong medical need and the benefit treatment will outweigh the potential increased risk of a thrombotic event [see Warnings and Precautions]. Tissue Plasminogen Activators: Concomitant therapy with tissue plasminogen activators may decrease the efficacy of both LYSTEDA and tissue plasminogen activators. Therefore, exercise caution if a woman taking LYSTEDA therapy requires tissue plasminogen activators. Factor IX Complex Concentrates or Anti-Inhibitor Coagulant Concentrates: LYSTEDA is not recommended for women taking either Factor IX complex concentrates or anti-inhibitor coagulant concentrates because the risk of thrombosis may be increased [see Warnings and Precautions]. All-Trans Retinoic Acid (Oral Tretinoin): Exercise caution when prescribing LYSTEDA to women with acute promyelocytic leukemia taking all-trans retinoic acid for remission induction because of possible exacerbation of the procoagulant effect of all-trans retinoic acid [see Warnings and Precautions].

## **USE IN SPECIFIC POPULATIONS**

Lysteda

(tranexamic acid) tablets

Em Gregnancy (Category B): LYSTEDA is not indicated for use in pregnant women. Reproduction studies have an performed in mice, rats and rabbits and have revealed no evidence of impaired fertility or harm to fetus due to tranexamic acid. However, tranexamic acid is known to cross the placenta and appears been performed in mice, rats and rabbits and have revealed no evidence of impaired fertility or harm to the fetus due to transaxamic acid. However, transaxamic acid is known to cross the placenta and appears in cord blood at concentrations approximately equal to the maternal concentration. There are no adequate and well-controlled studies in pregnant women. An embryo-fetal developmental toxicity study in rats were conducted using transaxmic acid. No adverse effects were observed in either study at doses up to 4 times the recommended human oral dose of 3900 mg/day based on mg/m² (actual animal dose 1500 mg/kg/day). Nursing Mothers: Transaxmic acid is present in the mother's milk at a concentration of about one hundredth of the corresponding serum oncentration. LYSTEDA should be used during lactation only if clearly needed. Pediatric Use: LYSTEDA is indicated for women of reproductive age and is not intended for use in premenarcheal girls. LYSTEDA has not been studied in adolescents under age 18 with heavy menstrual bleeding. Geriatric Use: LYSTEDA is indicated for women of reproductive age and is not intended for use by postmenopausal women. Renal Impairment: The effect of renal impairment on the pharmacokinetics of LYSTEDA as not been studied. Because transaxmic acid is primarily eliminated via the kidneys by glomerular filtration with more than 95% excreted as unchanged in urine, dosage adjustment in patient with renal impairment: The effect of renal impairment is needed. Hepatic Impairment: The effect of hepatic impairment in patients with hepatic impairment is not needed.

NONCLINICAL TOXICOLOGY

dosage adjustment in patients with hepatic impairment is not needed.

NONCLINICAL TOXICOLOGY

Carcinogenesis, Mutagenesis, Impairment of Fertility:

Carcinogenesis: Carcinogenicity studies with tranexamic acid in male mice at doses as high as 6 times the recommended human dose of 3900 mg/day showed an increased incidence of leukemia which may have been related to treatment. Female mice were not included in this experiment. The dose multiple referenced above is based on body surface area (mg/m²). Actual daily dose in mice was up to 5000 mg/kg/day in food. Hyperplasia of the bililary tract and cholangioma and adenocarcinoma of the intrahepatic bililary system have been reported in one strain of rats after dietary administration of doses exceeding the maximum tolerated dose for 22 months. Hyperplastic, but not neoplastic, lesions were reported at lower doses. Subsequent long-term dietary administration studies in a different strain of rat, each with an exposure level equal to the maximum level employed in the earlier experiment, have failed to show such hyperplastic/neoplastic changes in the liver. Mutagenesis: Tranexamic acid was neither mutagenic nor clastogenic in the in vitro Bacterial Reverse Mutation Assay (Ames test), in vitro chromosome aberration test in Chinese hamster cells, and in in vivo chromosome aberration tests in mice and rats. Impairment of Fertility: Reproductive studies performed in mice, rats and rabbits have not revealed any evidence of impaired fertility or adverse effects on the fetus due to tranexamic acid. In a rat embryo-fetal developmental toxicity study, tranexamic acid had no adverse effects on embryo-fetal development when administered during the period of organogenesis (from gestation days 6 through 17) at doses 1, 2 and 4 times the recommended human oral dose of 3900 mg/day. The dose multiples referenced above are based on body surface area (mg/m²). Actual daily doses in rats were 300, 750 or 1500 mg/kg/day. Animal Toxicology and/or Pharmacology: Ocular Effects: In a 9-month toxic

This summary provides important information about LYSTEDA. For full prescribing information vw.Lvsteda.com

