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Promoting Postpartum Weight Loss in GDM

BY DOUG BRUNK

NEW ORLEANS — Several ongoing trials aim to address the limited success of standard interventions to reduce postpartum weight gain among women who had gestational diabetes mellitus, according to Dr. Lucinda England.

One trial at Kaiser Permanente Northern California recruits women during pregnancy and helps them in the postpartum period to reach their prepregnancy weights plus an additional 5% weight loss for those who were overweight before pregnancy. The intervention includes 3 in-person counseling sessions and 13 phone counseling sessions for up to 9 months following delivery, said Dr. England of the division of reproductive health at the Centers for Disease Control and Prevention.

In a study funded by the CDC, re-

searchers at Brigham and Women's Hospital, Boston, are developing and evaluating a diabetes prevention program-style intervention that has been modified for postpartum women, Dr. England said at the annual scientific sessions of the American Diabetes Association.

A gestational diabetes initiative launched in New York City in 2006 uses birth certificate data from vital records to identify women with the condition. The

New York City Department of Health and Mental Hygiene mails a letter to the mother outlining the risks of gestational diabetes to the mother and child, the importance of screening after delivery, and recommended lifestyle changes. Also included is a letter that the woman can take to her personal physician that contains information on screening for diabetes post partum. Other materials sent include health bulletins on weight loss, diabetes, and trans fats, as well as a guide to fitness and nutrition programs in specific neighborhoods.

"We don't yet know how to best adapt lifestyle interventions for this population," Dr. England said.

Women with gestational diabetes face a six- to sevenfold increased risk of dia-

Addressing barriers to weight loss such as maternal fatigue and time constraints may be critical to the success of interventions in gestational diabetes patients.

betes in the future. Previous interventions aimed at diet and physical activity appear to have only modest effects on short-term postpartum weight loss, she said. "Addressing barriers such as maternal fatigue, time constraints, and lack of child care may be critical to the success of these programs."

The CDC estimates that 5% of pregnancies are complicated by gestational diabetes, which means about 200,000 women each year are affected. A small percentage of these women have undiagnosed preexisting diabetes; these women can be identified for early treatment through postpartum testing. The remaining women, many of whom have prediabetes, might benefit from diabetes prevention interventions, Dr. England said.

In a 2007 Cochrane review, the impact of diet, exercise, or both were compared with usual care for weight reduction in postpartum women in six trials. Diet interventions included dietary advice through group meetings, telephone calls, mail correspondence, individual dietary counseling, or prescription of a calorierestricted diet. Exercise interventions included counseling and structured exercise programs with supervised exercise (Cochrane Database Syst. Rev. 2007; CD005627[doi:10.1002/14651858. CD005627.pub2]).

In a single trial of exercise alone in 33 postpartum women, no weight loss was achieved. In a single trial of diet alone in 45 postpartum women, a 1.7-kg weight loss was achieved, which reached statistical significance. In four trials of diet and exercise combined in 169 postpartum women, a 2.9-kg weight loss was achieved, which also reached statistical significance. However, Dr. England emphasized, "these trials were small.

est to disclose.

Mirena®

(levonorgestrel-releasing intrauterine system)

BRIEF SUMMARY
CONSULT PACKAGE INSERT FOR FULL PRESCRIBING INFORMATION

PATIENTS SHOULD BE COUNSELED THAT THIS PRODUCT DOES NOT PROTECT AGAINST HIV INFECTION (AIDS) AND OTHER SEXUALLY TRANSMITTED DISEASES

Information with the continued contraception for up to 5 years. Thereafter, if continued contraception is discreted, the system should be replaced.

Mirena is recommended for women who have had at least one child.

CONTRAINDICATIONS
Mirena is contraindicated when one or more of the following conditions exist:

- CONTINUATION.

 In Pregnancy or suspicion of pregnancy.

 Pregnancy or suspicion of pregnancy.

 Congenital or acquired uterine anomaly including fibroids if they distort the uterine cavity.

 Acute petrlo inflammatory disease or a history of pelvic inflammatory disease unless there has been a subsequent intrauterine pregnancy.

 Postpartum endometritis or intelectal abortion in the past 3 months.

 Known or suspected uterine or centical neoplasia or unresolved, abnormal Pap smear.

 Gental bleeding of unknown etiology.

 Untreaded acute cervicits or vegnitis, including bacterial vaginosis or other lower of the contraction of the previous pre

pregnancy.

2. Intrauterine Pregnancy
If pregnancy should occur with Mirena in place, Mirena should be removed. Removal or manipulation of Mirena may result in pregnancy loss. In the event of an intrauterine pregnancy with Mirena, consider the following:

Septicis Joke, and usean "may occur." The Ordinituation of pregnancy If a woman becomes pregnant with Mirena in place and if Mirena cannot be removed or the woman chooses not to have it removed, she should be warned that failure to remove Mirena increases the risk of miscarriage, sepsis, premature labor and premature delivery. She should be followed closely and advised to report immediately any full-like symptoms, fever, chills, cramping, pain, bleeding, vaginal discharge or leakage of fluid.

ment of PID wing a diagnosis of PID, or suspected PID, bacteriologic specimens should be ned and antibiotic therapy should be initiated promptly. Removal of Mirena after in orl antibiotic therapy is usually appropriate, Guidelines for PID treatment are table from the Centers for Disease Control (CDC), Altanta, Georgia, omycosis has been associated with UIDs. Symptomatic women with IUDs should the IUD removed and should receive antibiotics. However, the management

Amenorinea develops in approximately 20% of Mirena users by one year. The possibility of pregnancy should be considered if menstruation does not occur within six well-noset of previous menstruation. Once pregnancy has been excluded, repeated pregnancy tests are generally not necessary in amenorine women unless indicated, for example, by other signs of pregnancy or by pelvic pain.

The risk of perforation may be increased in lactating women, in women with fixed retroverted utent, and during the postpartum period. To decrease the risk of perforation postpartum, Mirena insention should be delayed a minimum of 6 weeks after delivery or until utenne involution is complete. If involution is substantially delayed, consider waiting until 12 weeks postpartum. Insenting Mirena immediately after first trimester abortion is not known to increase the risk of perforation, but insertion after second trimester abortion should be delayed until uterine involution is complete.

ilsion or complete expulsion of Mirena may occur (see **PRECAUTIONS, Contir**

7 days of a menistrual period after pregnancy has been ruled out.

9. Ovarian Oysts
Since the contraceptive effect of Mirena is mainly due to its local effect, ovulatory cycles with follicular rupture usually occur in women of fertile age using Mirena. Sometimes atreate at the follicle is delayed and the follicle may continue to grow. Enlarged follicles have been diagnosed in about 12% of the subjects using Mirena. Most of these follicles are asymptomatic, although some may be accompanied by pelvic pain or dyspareunia. In most cases the enlarged follicles diagnoser spontaneously during two to there months observation. Persistent enlarged follicles should be evaluated. Surgical intervention is not usually required.

10. Breast Cancer
Women who currently have or have had breast cancer, or have a suspicion of breast cancer, should not use hormonal contraception because breast cancer is a hormone-sensitive turnor. Spontaneous reports of breast cancer rave been received during postmarketing experience with Mirena. Because spontaneous reports are voluntary and from a population of uncertain size, it is not possible to use post-marketing data to reliably estimate the frequency or establish causal relationship to drug exposure. Two observational studies have not provided evidence of an increased risk of breast cancer during the use of Mirena.

11. Risks of Mortality

Nelsko f Mortality
e available data from a variety of sources have been analyzed to estimate the risk of
atth associated with various methods of contraception. These estimates include the
miblined risk of the contraceptive method plus the risk of pregnancy or abortion in the
ent of method failure. The findings of the analysis are shown in Table 1.

AGE GROUP						
METHODS	15–19 years	20–24 years	25–29 years	30-34 years	35–39 years	40-44 years
No Birth Control Method/Term	4.7	5.4	4.8	6.3	11.7	20.6
No Birth Control Method/Abortion	2.1	2.0	1.6	1.9	2.8	5.3
IUD Periodic Abstinence Withdrawal Condom Diaphragm/Cap Sponge Spermicides Oral Contraceptives Implants/injectables Tubal Sterilization Vasectomy	0.2 1.4 0.9 0.6 0.6 0.8 1.6 0.8 0.2 1.3 0.1	0.3 1.3 1.7 1.2 1.1 1.5 1.9 1.3 0.6 1.2 0.1	0.2 0.7 0.9 0.6 0.6 0.8 1.4 1.1 0.5 1.1	0.1 1.0 1.3 0.9 0.9 1.1 1.9 1.8 0.8 1.1	0.3 1.0 0.8 0.5 1.6 2.2 1.5 1.0 0.5 1.2	0.6 1.9 1.5 1.0 3.1 4.1 2.7 1.9 0.6 1.3 0.2

Harlap S. et al., Preventing Pregnancy, protecting health: a new look at birth control choices in the US. The Alan Guttmacher Institute 1991: 1-129

PRECAUTIONS Patients should be counseled that this product does not protect Against hiv infection (Aids) and other sexually transmitted diseases.

AGAINST HIV INTECTION (PURP) AND OF THE ACTION OF THE ACTI

A complete medical and social history, including that of the partner, should be obtained to determine conditions that might influence the selection of an IUD for contraception (see CONTRAINDICATIONS).

NOTE: Special attention must be given to ascertaining whether the woman is at increased risk of infection (for example, leukemia, acquired immune deficiency syndrome (ADIS), I.V. drug abuse), or has a history of PID unless there has been a subsequent intrauterine pregnancy. Mirena is contraindicated in these women. A physical examination should include a pelvic examination, a Pag smare, examination of the breasts, and appropriate tests for any other forms of genital or other sexually transmitted diseases, such as gonorrhea and chlamydia laboratory evaluations, if indicated. Use of Mirena in patients with vaginitis or cervicitis should be postponed until proper treatment has eradicated the infection and until it has been shown that the cervicitis is not due to gonorrhea and chlamydia laboratory evaluations, if indicated Use of Mirena use, exclude endometrial pathology prior to the insertion of Mirena to such experiments of Mirena use, exclude endometrial pathology prior to the insertion of Mirena in women with persistent or uncharacteristic bleeding. If unexplained bleeding irregularities develop during the prolonged use of Mirena, appropriate diagnostic measures should be taken. (see WARNINGS, Irregular Bleeding and Amenorrhea.)

The healthcare provider should determine that the patient is not pregnant. The possibility of insertion of Mirena can be replaced by a new system at any time in the cycle. Mirena can be inserted immediately after first timester abortion.

Mirena should not be inserted until 6 weeks postpartum or until involution of the uterus is complete in order to reduce the incidence of perforation and expulsion. If involution is substantially delayed, consider waiting until 12 weeks postpartum (see WARNINGS, shuths are at increased tisk of inferieve endocarditis.

postpartum (see WARNINGS, Perforation).

Patients with certain types of valvular or congenital heart disease and surgically constructed systemic-pulmorary shurts are at increased risk of infective endocarditis. Use of Minera in these patients may represent a potential source of septic emboli. Patients with known congenital heart disease who may be at increased risk should be treated with appropriate antibiotics at the time of insertion and removal. Patients requiring chronic corticosteroid therapy or insulin for diabetes should be monitored with special care for infection.

Mirrora should be useful with careful in patients who haves

atents requiring critonic corticosterior therapy or insulin for diabetes should be intolited with special care for infection.

Iliera should be used with caution in patients who have: coaquiopathy or are receiving anticoaquiants migraine, focal migraine with asymmetrical visual loss or other symptoms indicating transient cerebral ischemia exceptionally severe headache marked increase of blood pressure severe arterial disease such as stroke or myocardial infarction sertion Precautions bserve strict asepsis during insertion. The presence of organisms capable of stabilishing PID cannot be determined by appearance, and IUD insertion may be sociated with introduction of vaginal bacteria into the utenus. Administration of ritibiotics may be considered, but the utility of this treatment is unknown.

Carefully sound the uterus prior to Mirena insertion to determine the degree of patency of the endocervical canal and the internal os, and the direction and depth of the uterine cavity. In occasional cases, severe cervical stenosis may be encountered. Do not use excessive force to overcome this resistance: may be encountered. Do not use excessive force to overcome this resistance. Fundal positioning of Mirena is important to prevert expulsion and maximize efficacy. Therefore, follow the instructions for the insertion carefully.

It the patient develops decreased pulse, perspiration, or pallor, have her remain supine until these signs resolve. Insertion may be associated with some pain and/or bleeding. Syncope, bradycardia, or other neurovascular episodes may occur during insertion of Mirena, especially in patients with a predisposition to these conditions or cervical stenosis.

Continuation and Removal

these conditions or cervical stenosis.

Continuation and Removal

Researmine and evaluate patients 4 to 12 weeks after insertion and once a year thereafter, or more frequently if clinically indicated.

If the threads are not visible, they may have retracted into the uterus or broken, or Mirena may have broken, perforated the uterus, or been expelled (see WARNINGS, Perforation and Expulsion). If the length of the threads has changed from the length at the state of the control of the uterus cavity with a probe if Mirena is displaced, remove it. A new Mirena may be inserted at that time or during the next menses if it is certain that conception has not occurred. If Mirena is in place with no evidence of perforation, no intervention is indicated.

Promotile regarding users with compalists of nain oddrous discharge uperclaims.

Promptly examine users with complaints of pain, odorous discharge, unexplained bleeding (see WARNINGS, Irregular Bleeding and Amenorrhea), fever, genital lesions or sores.

Consider the possibility of ectopic pregnancy in the case of lower abdominal pain especially in association with missed periods or if an amenorrheic woman starts bleeding (see WARNINGS, Ectopic Pregnancy).

In the event a pregnancy is confirmed during Mirena use:

Inform patient of the risks of leaving Mirena in place or removing it during pregnancy and of the lack of data on long-term effects on the offspring of women who have had Mirena in place during conception or gestation (see WARNINGS, Instruterine Pregnancy).

If possible, Mirena should be removed after the patient has been warned of the risks of removal. If removal is difficult, the patient should be conselled and offered pregnancy termination.

If Mirena is let in place, the patient's course should be followed closely.

Should the patient's relationship cases to be multially monogamous, or should he parther become HIV positive, or acquire a sexually transmitted diseases, she should be instructed to report this change to her clinician immediately. The use of a barrier method as a partial protection against acquiring exaulty transmitted diseases should be strongly recommended. Removal of Mirena should be considered. Mirena should be removed for the following medical reasons:

menorrhagia and/or metrorrhagia producing anemia
acquired immune deficiency syndrome (AIDS)
sexually transmitted disease
pelvic infection; endometritis
symptomatic genital actinomycosis
intractable pelvic pain
severe dyspareunia
pregnancy
endometrial or cervical malignancy
uterine or cervical perforation
Removal of the system should also be considered if any of the following conditions arise for the first time.

uterine or cervical perforation
 Removal of the system should also be considered if any of the following conditions arise for the first time:
 milgraine, focal milgraine with asymmetrical visual loss or other symptoms indicating transient cerebral ischemia

eXceptivitions which are a series of blood pressure severe attention disease such as stroke or myocardial infarction server a threat disease such as stroke or myocardial infarction emoval may be associated with pain and/or bleeding or neurovascular episodes.

5. Glucose Tolerance
Levonorgestrel may affect glucose tolerance, and the blood glucose concentration should be monitored in diabetic users of Mirena.

6. Drug Interactions
The influence of drugs on the contraceptive efficacy of Mirena has not been studied. The influence of drugs on the contraceptive efficacy of Mirena has not been studied. The metabolism of progestogens may be increased by concomitant use of substances known to induce drug-metabolizing liver enzymes, specifically cytochrome P450 enzymes.

8. Pregnancy Pregnancy Category X (see WARNINGS).

9. Nursing Mothers effects have been found on breastfeeding performance or on the health, growth, or development of the infant. However, isolated post-marketing cases of decreased milk production have been reported. Small amounts of progestins pass into the breast milk of nursing mothers, resulting in detectable steroid levels in infant plasma. Also, see WARNINGS, Perforation.

See WANDINGO, 1 ETABLISH.

10. Pediatric Use
Safety and efficacy of Mirena have been established in women of reproductive age. Use of this product before menarche is not indicated. In Geriatric Use
Mirena has not been studied in women over age 65 and is not currently approved for use in this population.

The most serious adverse reactions associated with the use of Mirena are discussed above in the MRANIMOS and PRECAUTIONS sections. Very common adverse reactions (5-1/0) users) include uterine/vaginal bleeding (including spotting, irregular bleeding, heavy bleeding, oligomenorrhea and amenorrhea) and ovarian cysts. Other adverse events are listed below using MedDRA (9.0) terms. Adverse reactions reported by 5% or Abdominal/pelvic pain Vaginal discharge Nausea

e reased libido ressed mood vicitis/Papanicolaou smear normal, class II

Postmarketing Experience
The following adverse reactions have been identified during post approval use of Mirena:
device breakage and angioedema. Because these reactions are reported voluntarily from



Bayer HealthCare Pharmaceuticals

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Manufactured in Finland

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She said she had no conflicts of inter-