

# Bariatric operations reduce odds of gestational diabetes, cesarean section

September 7 2010

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Obese women who have bariatric surgical procedures before pregnancy were three times less likely to develop gestational diabetes (GDM) than women who have bariatric operations after delivery, according to new research findings published in the August issue of the *Journal of the American College of Surgeons*. The retrospective study also found that delivery after bariatric procedures was associated with reduced odds of cesarean section—an outcome associated with GDM.

Gestational diabetes affects at least seven percent of all pregnancies in the United States, with rates as high as 14 percent among certain populations. Its prevalence is increasing among reproductive-age women, parallel to increasing rates of obesity and [type 2 diabetes](#). Currently, 33 percent of women over 19 years of age meet the criteria for obesity ([body mass index](#) [BMI] > 30 kg/m<sup>2</sup>) and seven percent for extreme obesity (BMI > 40 kg/m<sup>2</sup>). Bariatric surgical procedures are the only intervention shown to produce sustained weight reduction in the vast majority of subjects.

"The major finding of our study is that women who had bariatric surgery before they delivered reduced odds of [gestational diabetes](#) when compared with women had bariatric surgery after they delivered," said Anne E. Burke, MD, MPH, assistant professor of [obstetrics](#) and [gynecology](#) at the Johns Hopkins University School of Medicine in Baltimore, Md.

"Despite a growing body of evidence supporting the safety and efficacy

of bariatric surgery in reversing obesity-related complications, few candidates for the procedure are referred to a surgeon to discuss their options," stated Martin Makary, MD, MPH, associate professor of surgery at Johns Hopkins University School of Medicine and senior author of the study.

Researchers performed a retrospective study to compare rates of GDM and related outcomes between a group of women who had bariatric operations before pregnancy (n=346) and a group who had bariatric operations after delivery (n=354) between 2002 and 2006. Women who delivered after bariatric procedures had lower incidences of GDM (8 percent vs. 27 percent, odds ratio (OR) 0.23) and cesarean section (28 percent vs. 43 percent, OR 0.53) than those who delivered before bariatric procedures.

Women who delivered after bariatric operations were slightly older (32.5 years vs. 31.1 years, p delivery (9 percent vs. 3 percent).

Provided by Weber Shandwick Worldwide

Citation: Bariatric operations reduce odds of gestational diabetes, cesarean section (2010, September 7) retrieved 7 May 2024 from <https://medicalxpress.com/news/2010-09-bariatric-odds-gestational-diabetes-cesarean.html>

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