

Diabetes Require Less Medication After Bariatric Surgery

Bariatric surgery appears to be associated with reduced use of medications and lower health care costs among patients with type 2 diabetes, according to a report in the August issue of *Archives of Surgery*.

“From an epidemiological standpoint, once these diseases develop they are rarely reversed. Dietary, pharmaceutical and behavior treatments for obesity are associated with high failure rates, and medical management of diabetes is also often unsuccessful. Despite many efforts to improve the control of glucose levels in diabetes, including clinical guidelines and patient and provider education, less than half of all patients with type 2 diabetes mellitus achieve a hemoglobin A1C level of less than seven percent.”

The use of bariatric surgery—that results in long-term weight loss, improved lifestyle and decreased risk of death—has tripled in the past five years, the authors note. Martin A. Makary, M.D., M.P.H., and colleagues at the Johns Hopkins Bloomberg School of Public Health and The Johns Hopkins University School of Medicine, Baltimore, studied U.S. adults (average age 48.4) with type 2 diabetes who underwent bariatric surgery during a four-year period, from 2002 to 2005.

Of the patients, 85.8 percent were taking at least one diabetes medication before surgery, with an average of 4.4 medications per patient. Six months after surgery, 74.7 percent had eliminated their diabetes medications. Of those with available data one year after surgery, 80.6 percent had eliminated medications; after two years, 84.5 percent had done so. This reduction was observed in all classes of diabetes medications.

“We observed that independence from diabetes medication was almost immediate within the initial months after surgery and did not correlate with the gradual weight loss expected,” the authors write. “This supports the theory that the resolution of diabetes is not due to weight loss alone but is also mediated by gastric hormones, with the three most implicated being peptide YY, glucagonlike peptide and pancreatic polypeptide. As a known mediator of insulin regulation, glucagonlike peptide levels have been noted to increase immediately after bariatric surgery and may explain why surgeons have noted complete resolution of diabetes in some cases within days after surgery.”

Health care costs averaged \$6,376 per year in the two years before surgery, and the median or midpoint cost of the surgery and hospitalization was \$29,959. Total annual health care costs increased by 9.7 percent (\$616) in the year following the procedure, but decreased by 34.2 percent (\$2,179) in year two and by 70.5 percent (\$4,498) in year three.

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“Based on these data, we have identified several important implications for health care delivery and public policy,” the authors conclude. “Foremost, eligible obese patients should be properly informed of the risks and benefits of bariatric surgery compared with non-surgical health management. Health care providers should consider discussing bariatric surgery in the treatment of obese patients with type 2 diabetes. Health insurers, private and public, should pay for bariatric surgery for appropriate candidates, recognizing a potential annualized cost savings in addition to the benefit to health.”

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