VENUS VERSUS MARS - CLINICAL CHARACTERISTICS OF MORBIDLY OBESE SURGICAL PATIENTS VARY SIGNIFICANTLY BETWEEN WOMEN AND MEN

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Introduction: The obesity epidemic requires every surgeon to manage morbidly obese patients. Every insight helps optimize care of these medically fragile individuals. Variation by sex in weight-related conditions is not well-defined. The objective of this study was to identify clinical differences between obese women and men pre-operative for sleeve gastrectomy.

Methods: Data from 8,966 patients in the Surgical Review Corporation’s BOLD database who were about to undergo sleeve gastrectomy was analyzed in two groups: Females (n=6685) and Males (n=2281). ANOVA compared age, weight, and Body Mass Index (BMI). Chi-squared assessed dichotomous variable distribution.

Results: Female/Male weight (125+-25 /160+-34), BMI (46+-9/50+-10), age (45+-11/47+-12), race (Caucasian 74/78%, African-American 12/6%, Hispanic 8.8/10.3%) and health insurance (Medicaid 5.3/3.6%, Medicare 2.0/2.5%, Private 70.8/72.2%) varied significantly (p<0.0001). Men suffered 15 weight-related medical problems more frequently than women (abdominal hernia, angina, congestive heart failure, diabetes mellitus, gout, hypertension, ischemic heart disease, dyslipidemia, obesity hypoventilation syndrome, and obstructive sleep apnea, all p<0.0001, plus back pain, DVT/PE, impaired functional status, and lower extremity edema, p<0.05). In addition to female-specific menstrual irregularities and polycystic ovarian disease, women were affected more often by 9 co-morbidities (asthma, cholelithiasis, mental health diagnosis, depression, fibromyalgia, GERD, stress urinary incontinence, pseudotumor cerebri, and psychological impairment, all p<0.001). Alcohol consumption (38%/34%, p<0.001), tobacco abuse (9%/7%, p<0.05), and unemployment (16%/14%, p<0.0001) were higher among men. Abdominal panniculitis, liver disease, musculoskeletal pain, peripheral vascular disease, pulmonary hypertension, and substance abuse did not vary by sex.

Conclusions: Compared with women, morbidly obese men seeking sleeve gastrectomy were older, heavier, smoked and drank more, and carried more co-morbidities, particularly functional disability and serious cardio-pulmonary/endocrine/metabolic issues. Cholelithiasis, GERD, and neuro/psychological problems dominated among women. Extrapolated to the overall surgical population, this advance knowledge may give surgeons heightened index of suspicion for obese patients that can improve operative outcomes.