PRE-OPERATIVE DIRECT AND INVERSE CLINICAL CHARACTERISTIC VARIATIONS BY AGE RESOLVE FOLLOWING OPEN ROUX-EN-Y GASTRIC BYPASS (ORYGB)

Ajay Menon, DO, Gus J Slotman, MD
Department of Surgery
Inspira Health Network, Vineland, NJ

Introduction: Open Roux-en-Y gastric bypass (ORYGB) is reserved for complex patients too obese for laparoscopic surgery or with massive intra-abdominal scarring. Presentation and outcomes by age in ORYGB is unknown.

Objective: To identify variation by age before/after ORYGB.

Methods: Data from Surgical Review Corporation BOLD database 5389 ORYGB patients was analyzed retrospectively by age: <30 (607), 30-40 (1226), 40-50 (1465), 50-60 (1314), 60-70 (520) and >70 (34). Statistics: ANOVA/general linear model.

Results: Baseline weight, BMI, female/male, Medicaid/Private insurance, PCOS(through 24 months), pseudotumor cerebri(PTC) varied inversely to increasing age ($p<0.01$). African-American/Caucasian/Hispanic/Asian/Other, panniculitis, mental health diagnosis(MHD), psychological impairment(PI), fibromyalgia, alcohol, liver disease, varied non-linearly among age groups. Pre-op hernia, angina, cholelithiasis, CHF, DVT/PE, impaired functional status(IFS), GERD, diabetes, gout, hypertension, dyslipidemia, lower extremity edema(LEE), musculoskeletal pain(MSP), obesity hypoventilation(OHS), sleep apnea(OSA), PVD, stress incontinence(SUI), and unemployment (n=18) varied directly with age, <30 to 60-70/>70. At 12 and 24 months only CHF and PVD varied directly by age. 12 month GERD, MHD, depression, gout, MSP, back pain, PTC, PI, SUI (n=9) and 12-24 month hernia, CHF, diabetes, hypertension, OSA, angina, IFS, dyslipidemia, LEE, smoking (n=10) varied non-linearly by age.

Conclusions: Direct age variations in 16/18 pre-operative clinical characteristics of ORYGB patients resolve by 12 months. Only CHF and PVD varied 12-24 months. Pre-operative ORYGB patients varied inversely by age in weight, BMI, sex, insurance, PCT, PCOS. Pre-operative race, 6 co-morbidities, and 19 co-morbidities 12-24 months post-ORYGB varied by age non-linearly, peaking in 40-60 years. This advance knowledge of age variation can aid ORYGB management.