A 5-year characterization of trends and outcomes in elderly patients undergoing bariatric surgery

Samantha Albacete, Kevin Verhoeff, Valentin Mocanu, Daniel W. Birch, Shahzeer Karmali, Noah J. Switzer

University of Alberta, Edmonton, Canada

BACKGROUND

North American population with **severe obesity** is **aging**

↑ number of **elderly** patients meeting criteria for **metabolic surgery**

Trends in bariatric surgery in elderly are **poorly** characterized and outcomes **conflicting**

Analyze the **unique** characteristics, surgical operative **trends** and **outcomes** by comparing an **elderly** to a **non-elderly** cohort

METHODS

MBSAQIP database identified elderly patients undergoing elective bariatric surgery → **2015 to 2019**

Multivariable logistic regression identified independent **predictors** of **serious complications** and 30-day **mortality**

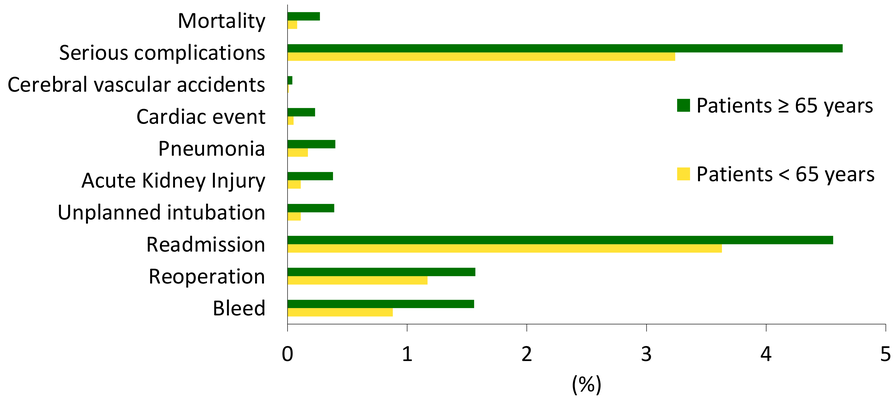


Figure 1. Thirty-Day **Post-Operative Outcome**s for Patients **<65** years compared to those **≥ 65** years, **for all factors p<0.001**

Elderly patients represent **5**% of elective bariatric surgeries

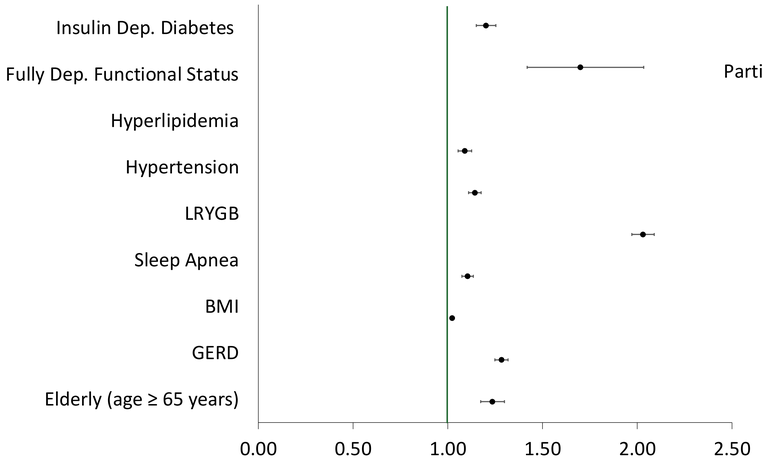


Figure 2. Forest plot of odds ratios for multivariable logistic regression for **serious complications**, error bars represent 95% confidence intervals, **for all values p<0.001**

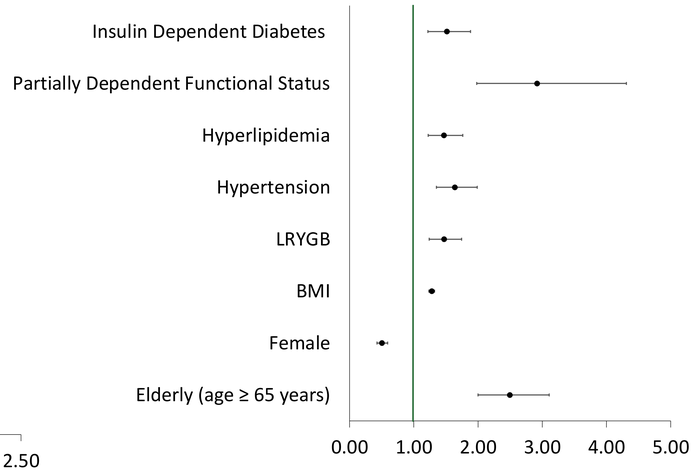


Figure 3. Forest plot of odds ratios for multivariable logistic regression for **30-day mortality**, error bars represent 95% confidence intervals, **for all values p<0.001**

Characteristics of **Elderly** Patients

M>F
↓BMI
↑ASA
↑HTN
↓Functional status
↑Diabetes

DISCUSSION

Sleeve gastrectomy was the most common surgery (73.7% non-elderly vs 72.3% elderly)

Functional status was most predictive factor for **poor outcomes** (adjusting for comorbidities)

Elderly patients have **increased 30**-day odds of **serious complications** and **mortality**

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Corresponding Author:
Albacete@ualberta.ca

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