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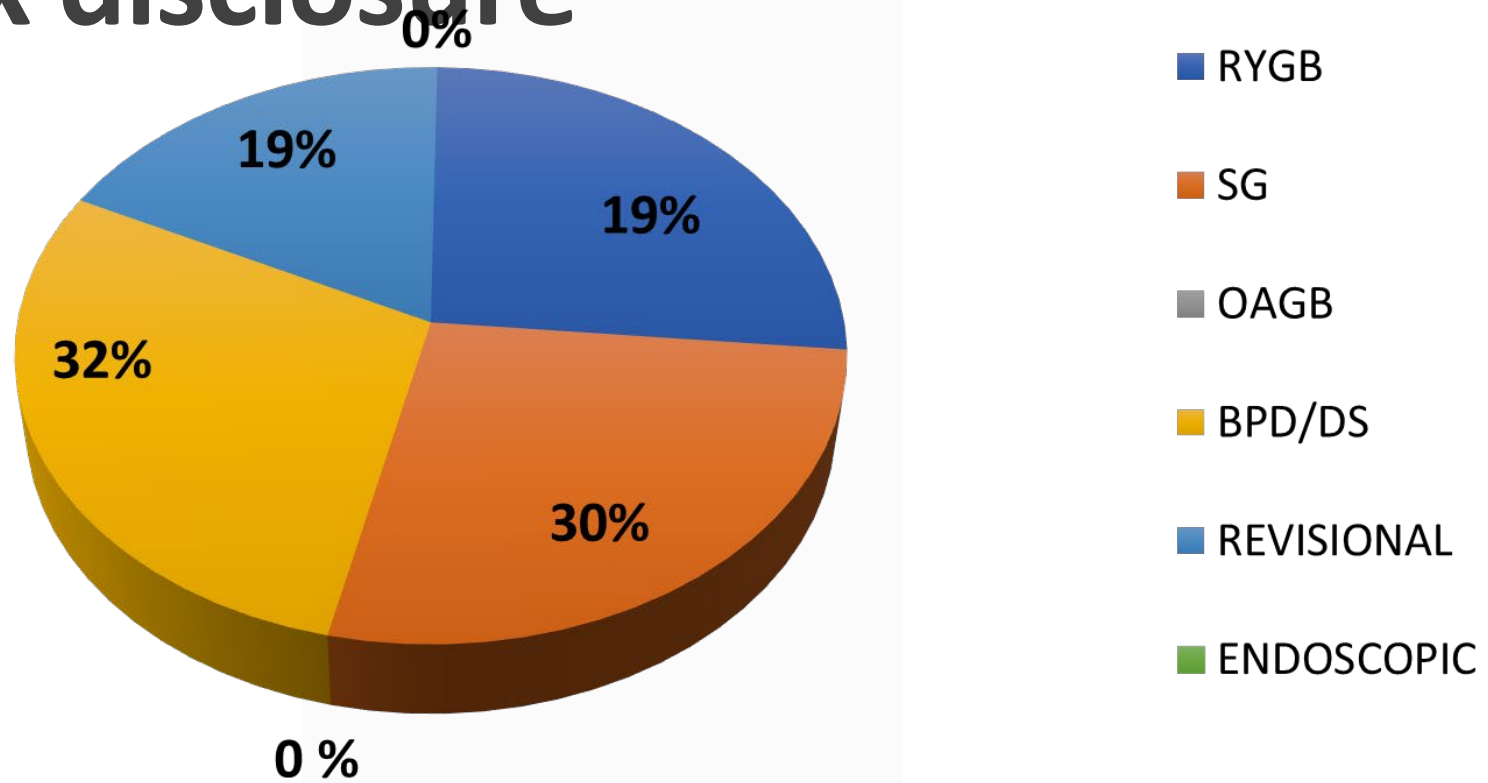
MBS AND ENDSTAGE KIDNEY DISEASE: BRIDGE TO THE TRANSPLANT

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UNIVERSITY OF GENOA, ITALY

Case mix disclosure



No financial conflict of interest to disclose

THE IMPACT OF BODY MASS INDEX ON RENAL TRANSPLANT OUTCOMES

A SIGNIFICANT INDEPENDENT RISK FACTOR FOR GRAFT FAILURE AND PATIENT DEATH

Meier-Kriesche, Herwig-Ulf¹; Arndorfer, Julie A.; Kaplan, Bruce

[Author Information](#) 

Author Information

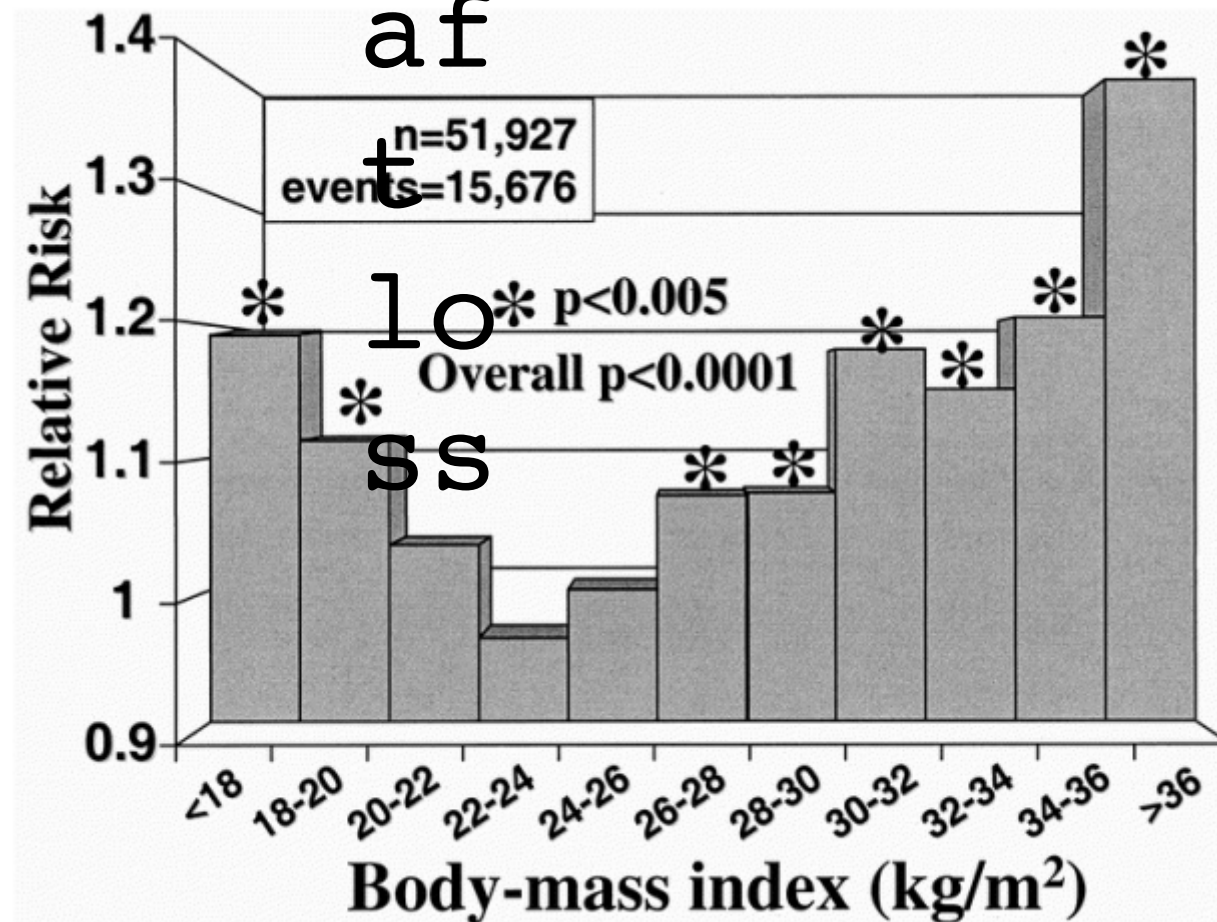
¹Address correspondence to: Herwig-Ulf Meier-Kriesche, MD, Associate Professor of Internal Medicine, Division of Nephrology, University of Florida, Shands Hospital, 1600 SW Archer Rd., RM CG-98, Gainesville FL 32610-0224. E-mail meierhu@medicine.ufl.edu.

Received 18 April 2001.

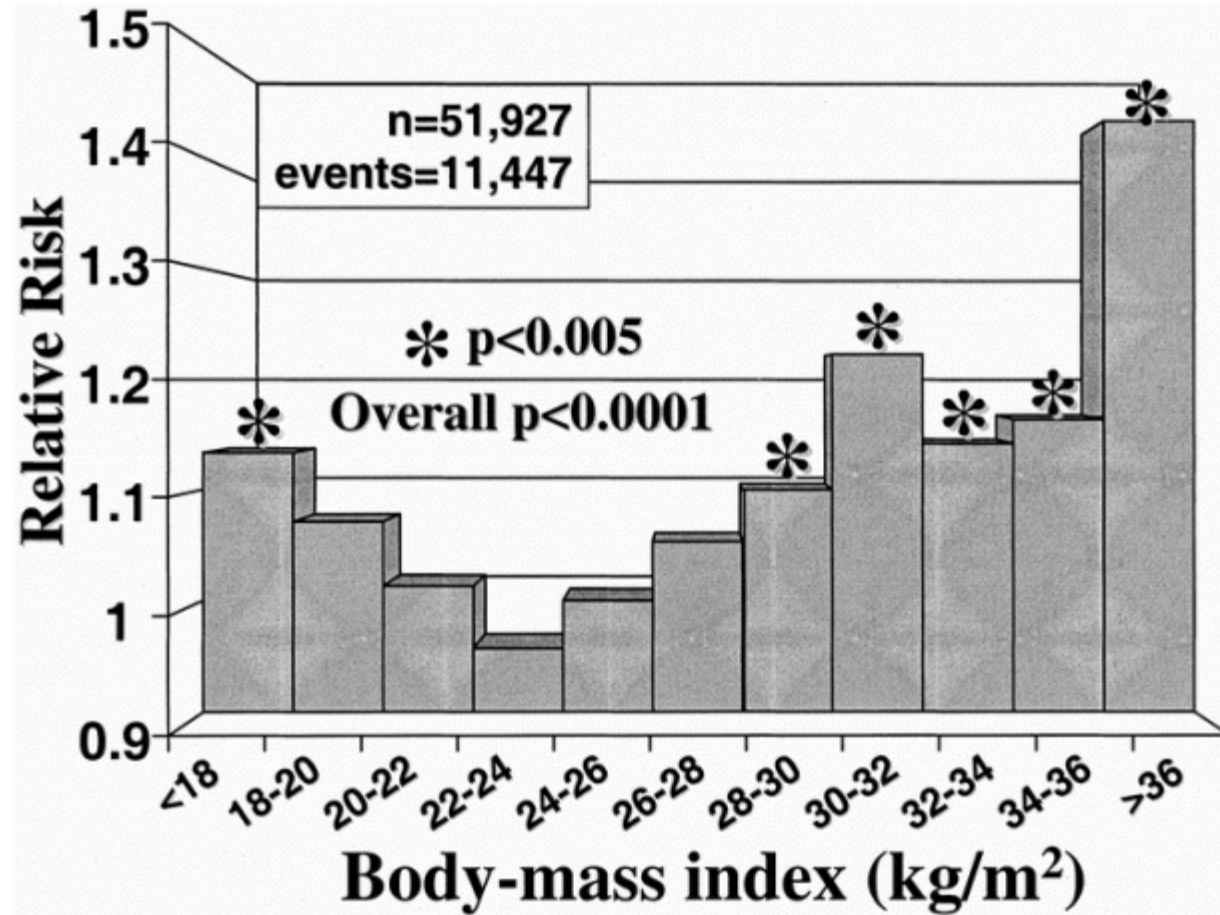
Accepted 6 June 2001.

Transplantation 73(1):p 70-74, January 15, 2002.

Gr
af



Overall



Obesity and kidney transplant

Bariatric surgery:

- BMI 30–35 kg/m² with complications
- BMI >35 uncomplicated

Transplant surgery criteria:

- Donor < 35 kg/m²
- Recipient < 40 kg/m² (preferable, < 35)

Is there a role for MBS in
patients with chronic kidney
failure?

Original Investigation

FREE

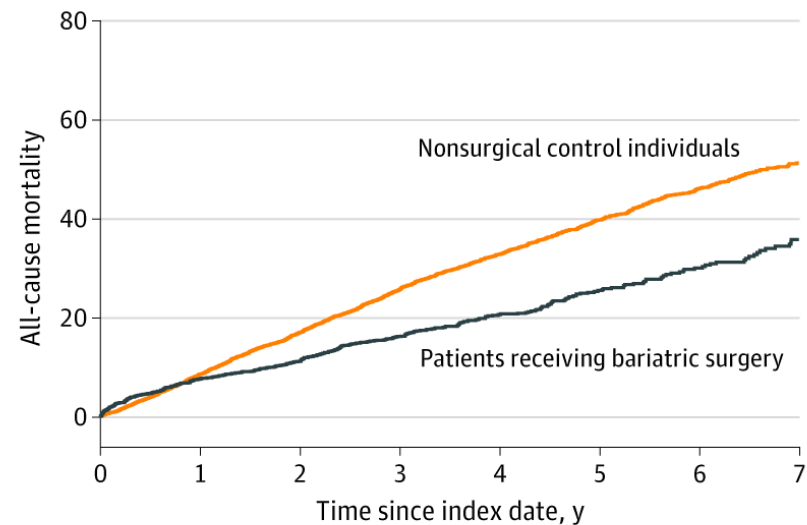
May 27, 2020

Bariatric Surgery and Long-term Survival in Patients With Obesity and End-stage Kidney Disease

Kyle H. Sheetz, MD, MSc^{1,2}; Laura Gerhardinger, MS²; Justin B. Dimick, MD, MPH^{1,2}; [et al](#)

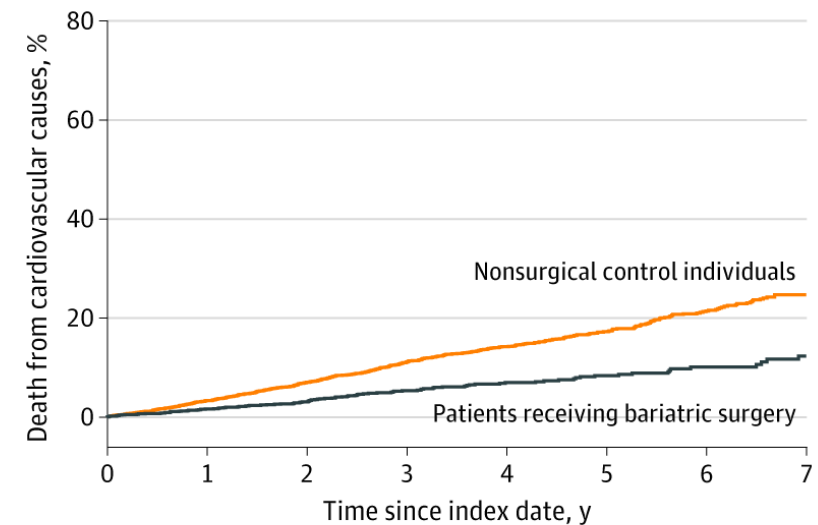
» [Author Affiliations](#) | [Article Information](#)

JAMA Surg. 2020;155(7):581-588. doi:10.1001/jamasurg.2020.0829

A All-cause mortality

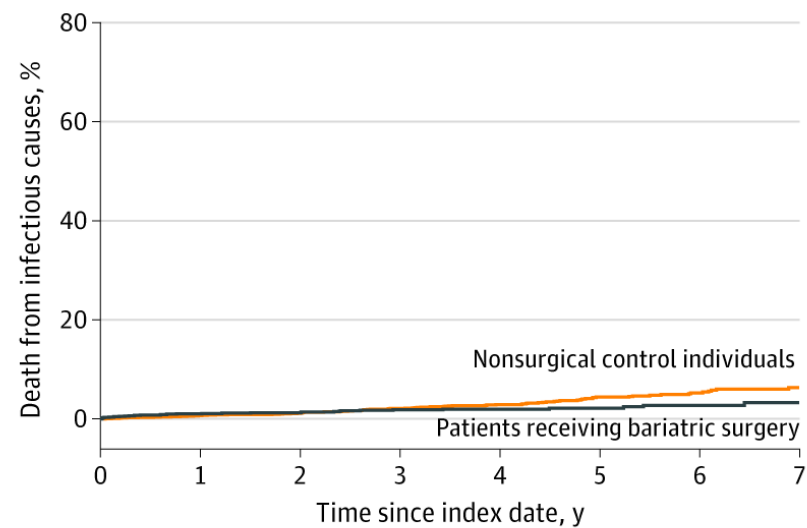
No. at risk

Group=0	4486	4026	3397	2264	1426	905	532	296
Group=1	1596	1462	1289	902	590	397	247	134

B Death from cardiovascular causes

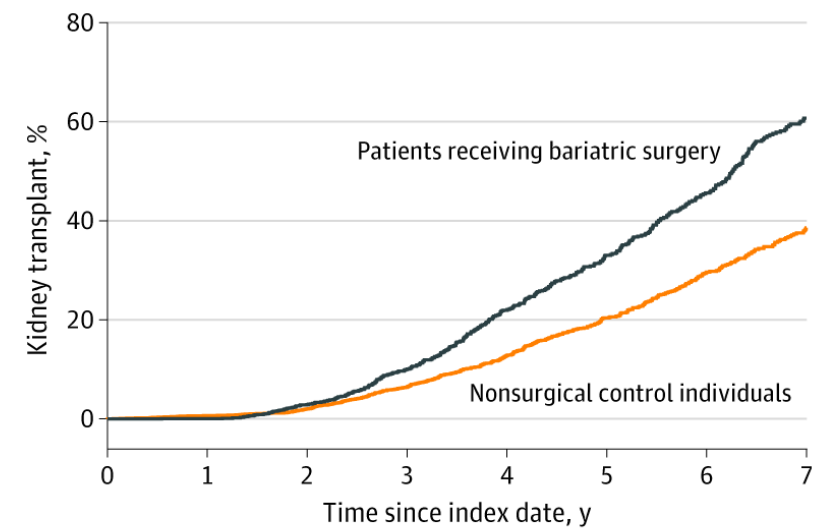
No. at risk

Group=0	4486	4026	3397	2264	1426	905	532	296
Group=1	1596	1462	1289	902	590	397	247	134

C Death from infectious causes

No. at risk

Group=0	4486	4026	3397	2264	1426	905	532	296
Group=1	1596	1462	1289	902	590	397	247	134

D Cumulative incidence of kidney transplant

No. at risk

Group=0	4486	4026	3397	2264	1426	905	532	296
Group=1	1596	1426	1289	902	590	397	247	134

Metabolic and Bariatric Operation and the Path to Kidney Transplantation

Abdallah Attia, MD, Eman A Toraih, MD, PhD, Claire Ardis, MS, Mahmoud Omar, MD,
Ahmed Abdelmaksoud, MD, Danielle Tatum, PhD, Mary Killackey, MD, FACS, Shauna Levy, MD, FACS, MS,
Anil Paramesh, MD, FACS



US Collaborative Network
65 HCO
98,830,248 adult patients

BMI > 30 kg/m²
ESRD or dialysis
No weight loss medications

Bariatric surgery
(n=6,263)
48 HCO

Control group
(n=126,726)
56 HCO

Subgroup analysis

Propensity matching 1:1
nearest neighbor
(n=6,238)

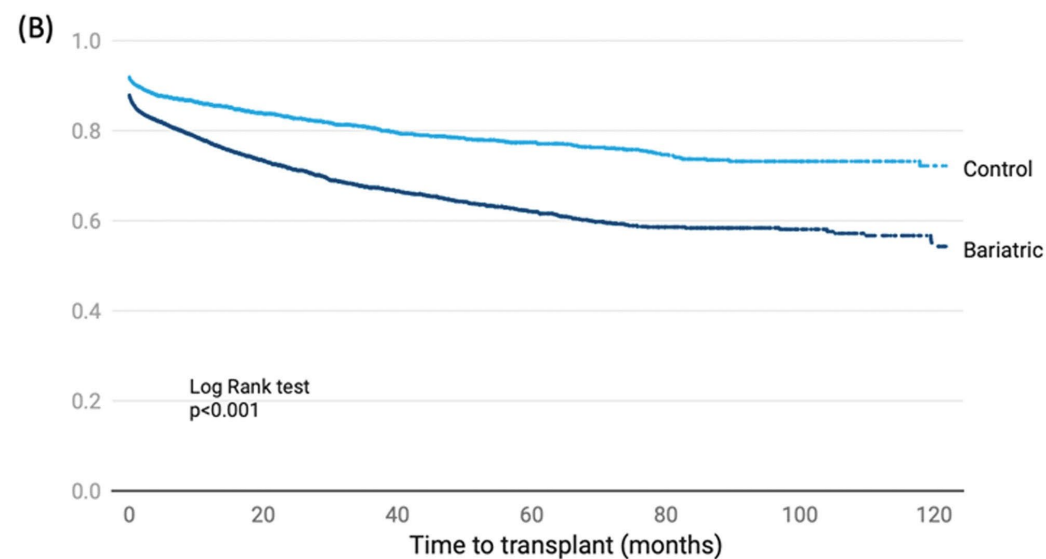
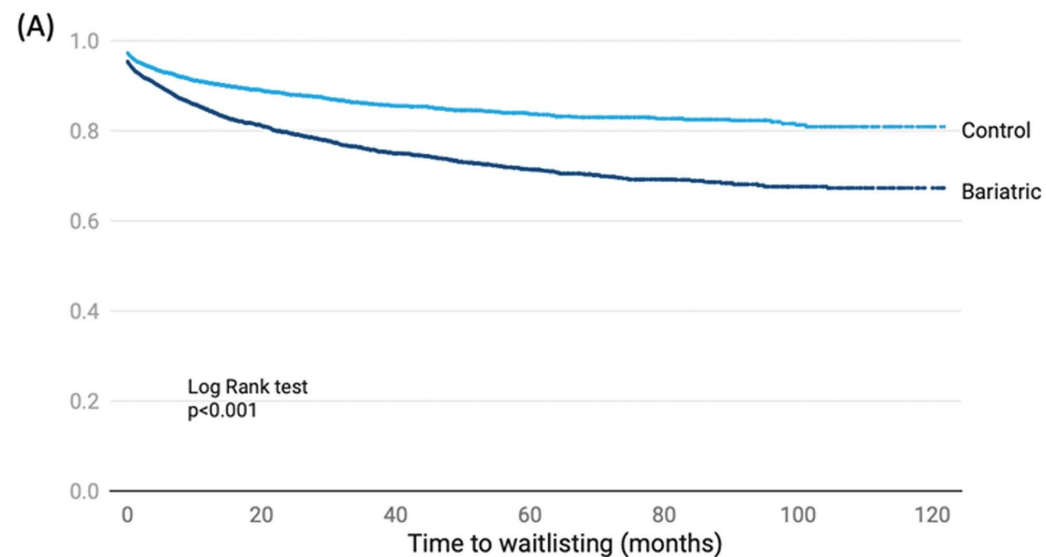
Primary outcomes:

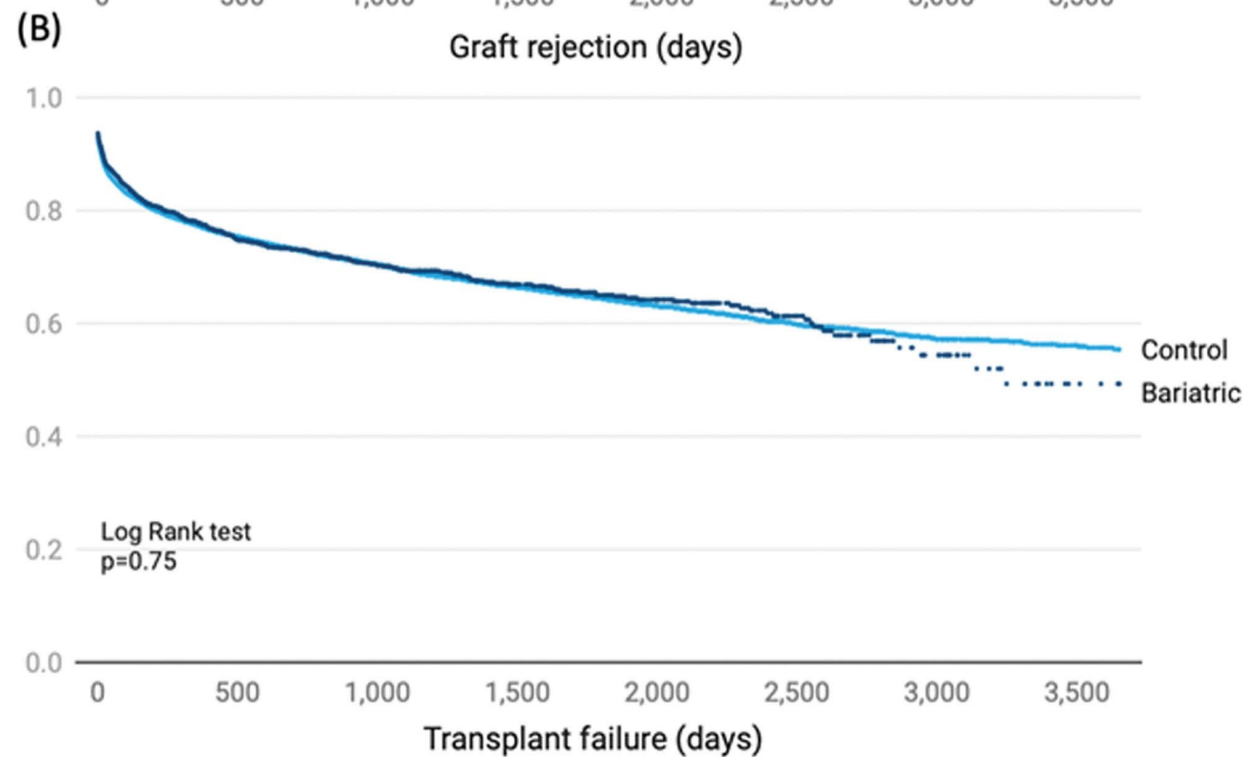
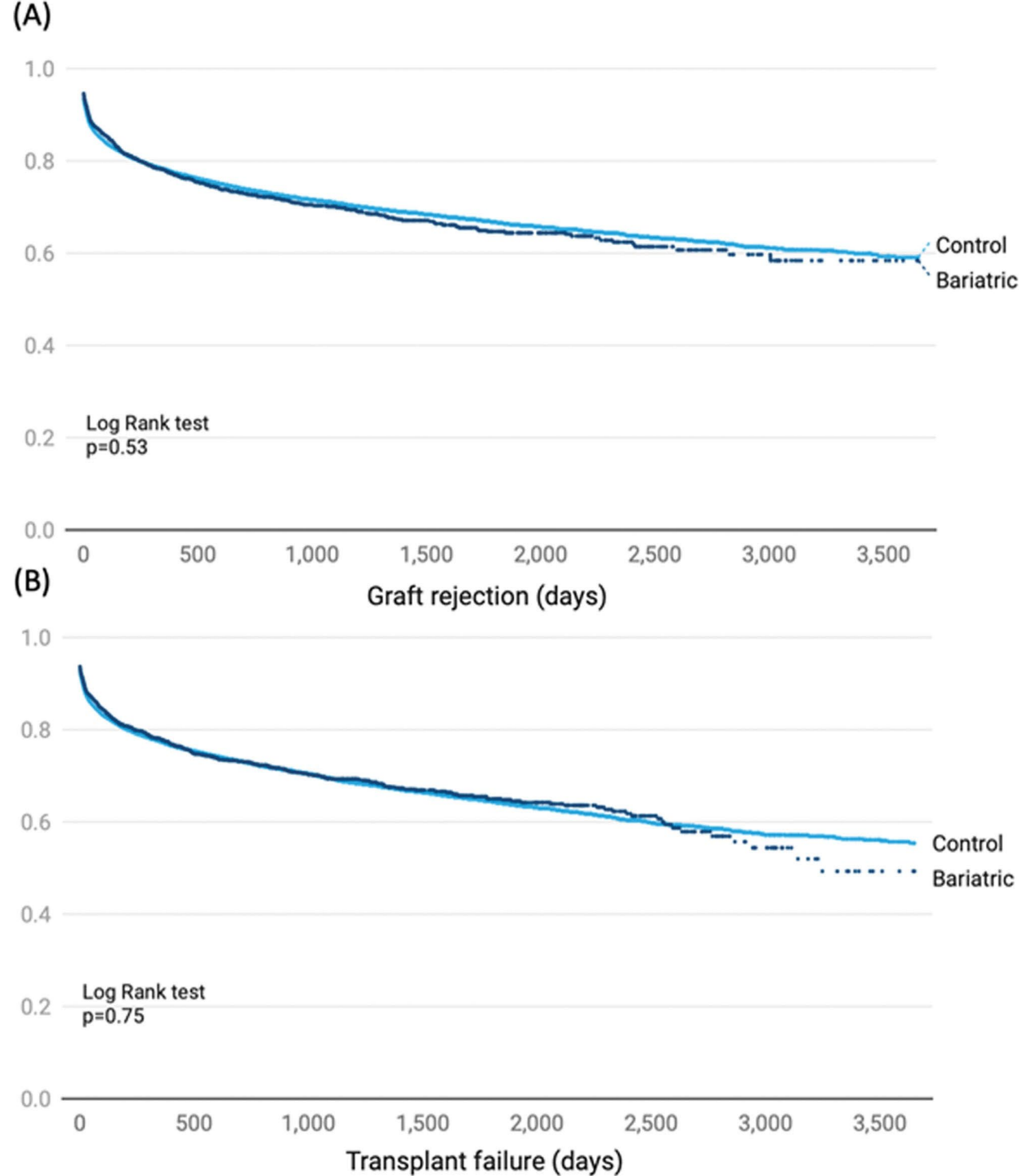
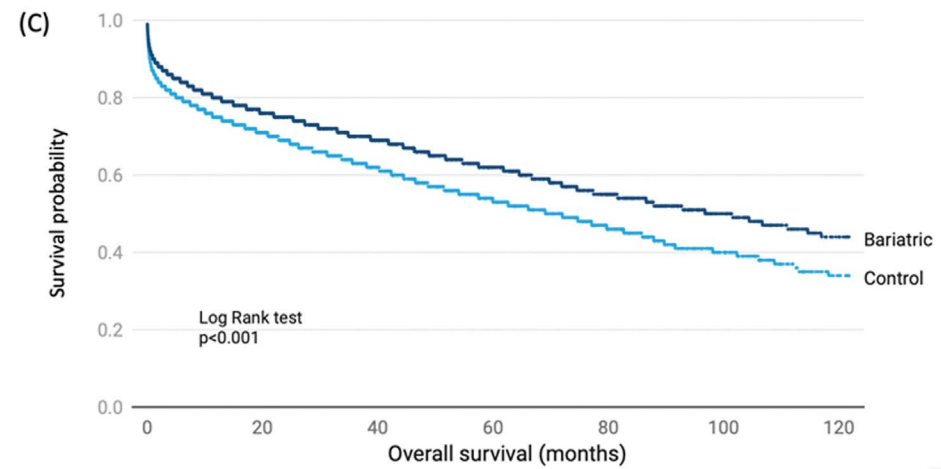
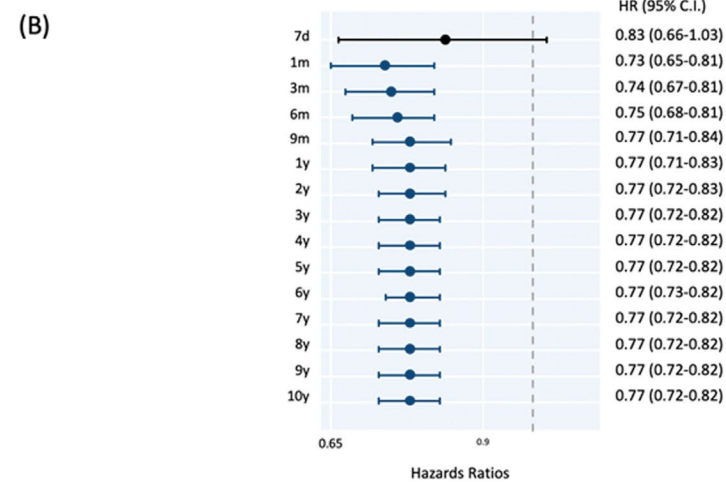
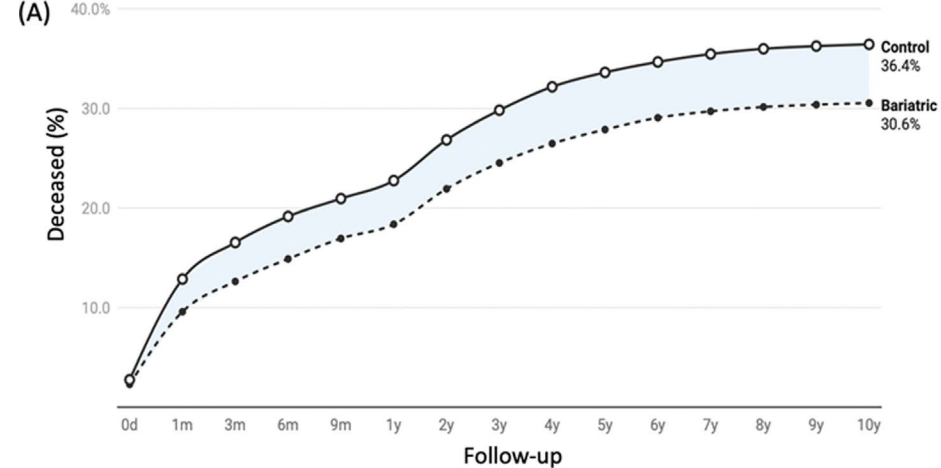
Wait listing rate
Transplantation rate
Time to transplantation

Transplant patients
• Bariatric (n=1,701)
• Control (n=21,278)

Outcomes:

Complication rate
(rejection, failure,
VTE, cardiovascular)
Case-fatality rate

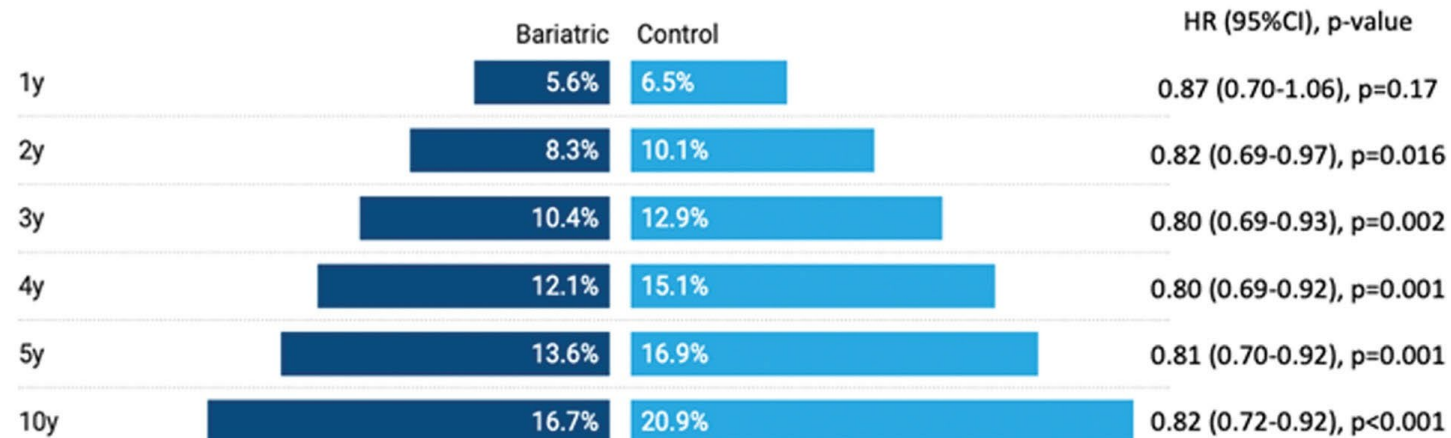
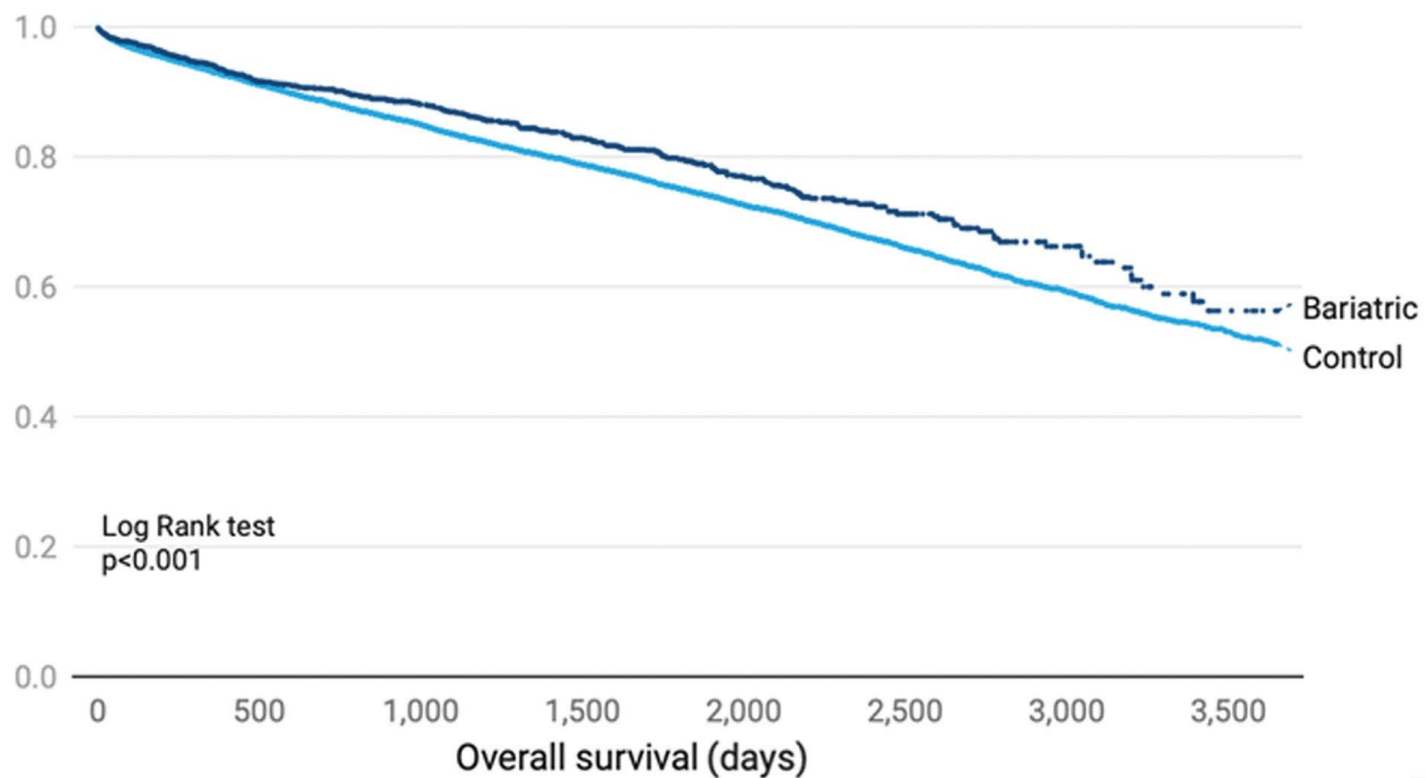




(A)

Overall mortality

■ Bariatric ■ Control

**(B)**

Metabolic and Bariatric Surgery and the Path to Kidney Transplantation

1:1 matching of end-stage renal disease (ESRD) patients with obesity (n = 6238/group)
obtained from TriNetX database

Control (No MBS)

10.5%



Waitlist placement

16.1%



Transplantation

36.4%



10-Year overall
mortality

MBS

19.1%*

27.1%*

30.5%*






* Indicates $p < 0.05$

Metabolic bariatric surgery (MBS) in patients with ESRD improves access to kidney transplantation

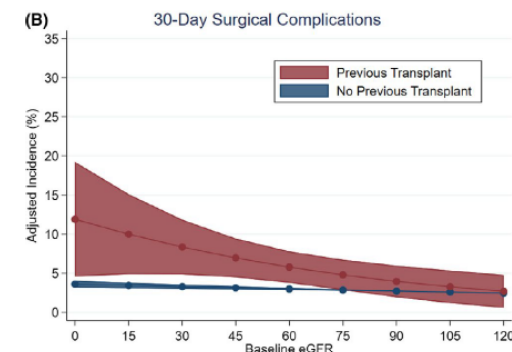
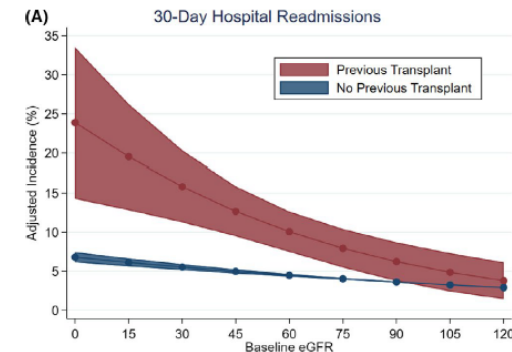
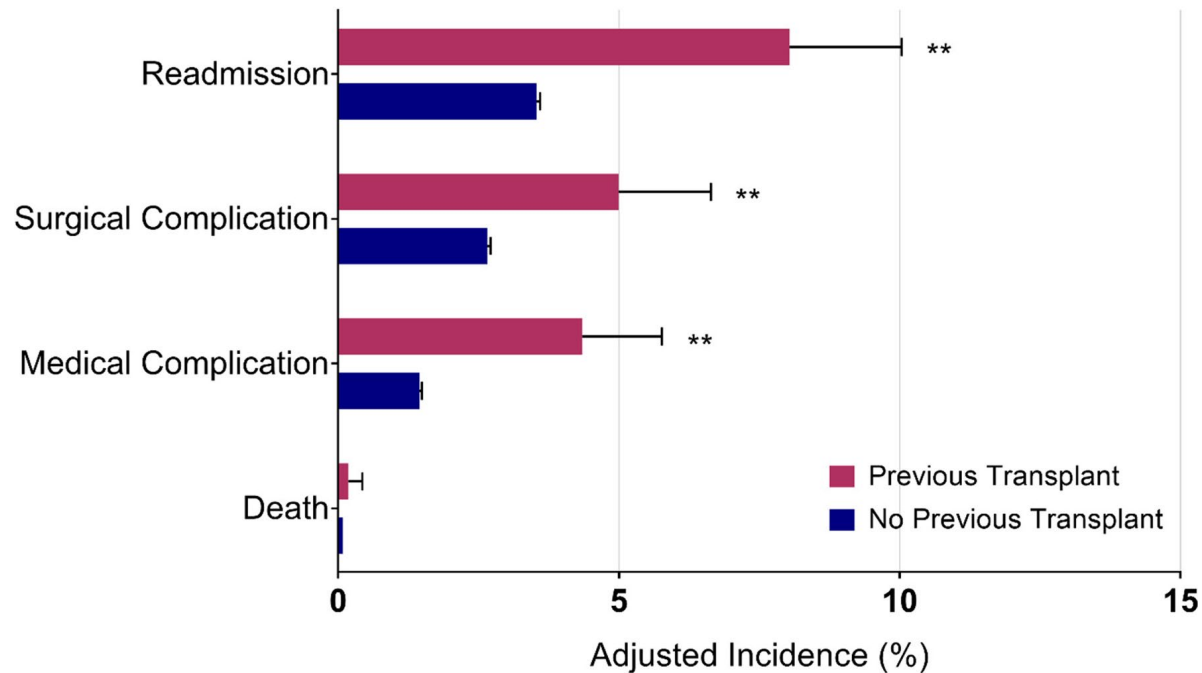
Timing of kidney transplant a

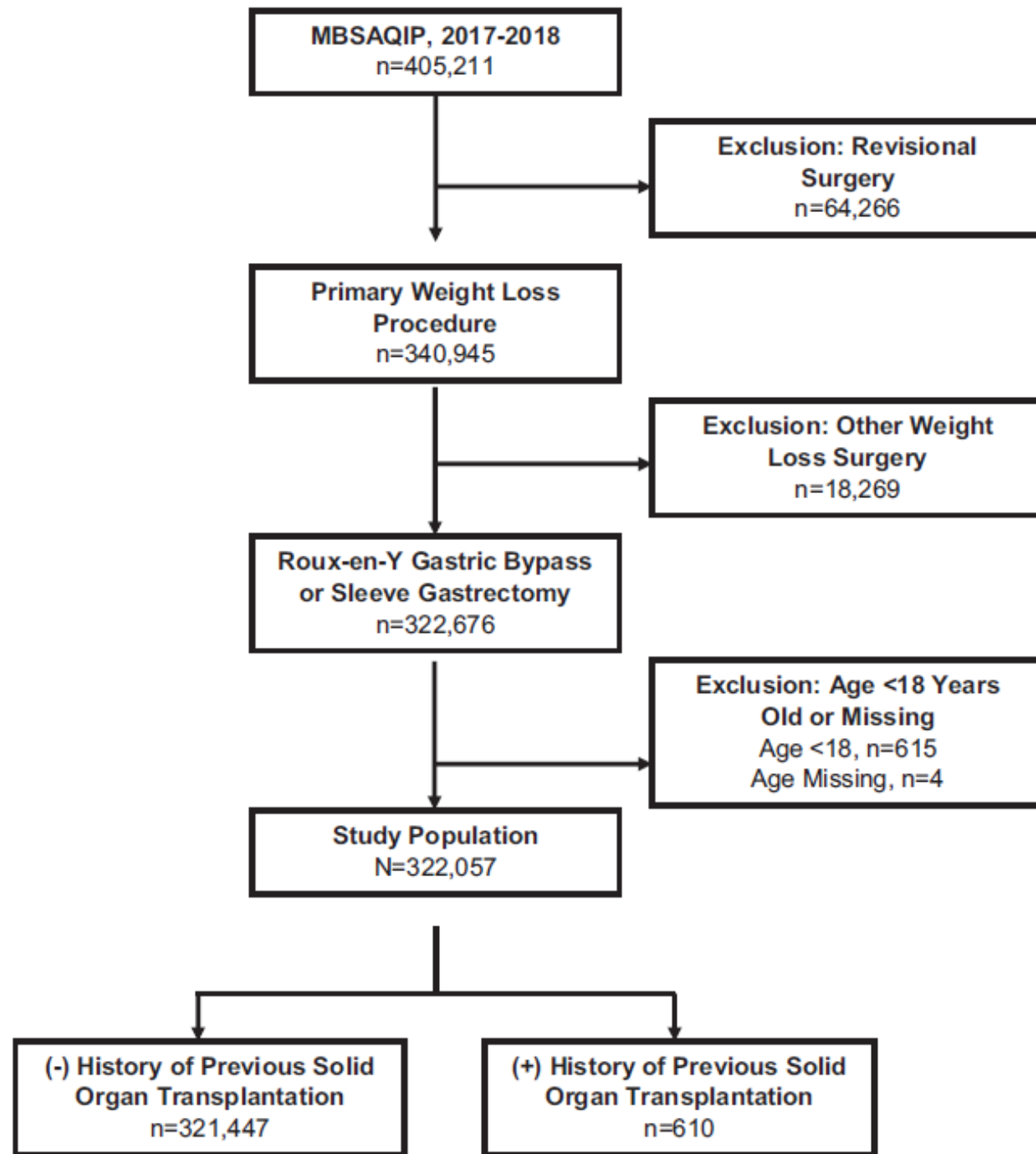
ORIGINAL ARTICLE

Perioperative risks of bariatric surgery among patients with and without history of solid organ transplant

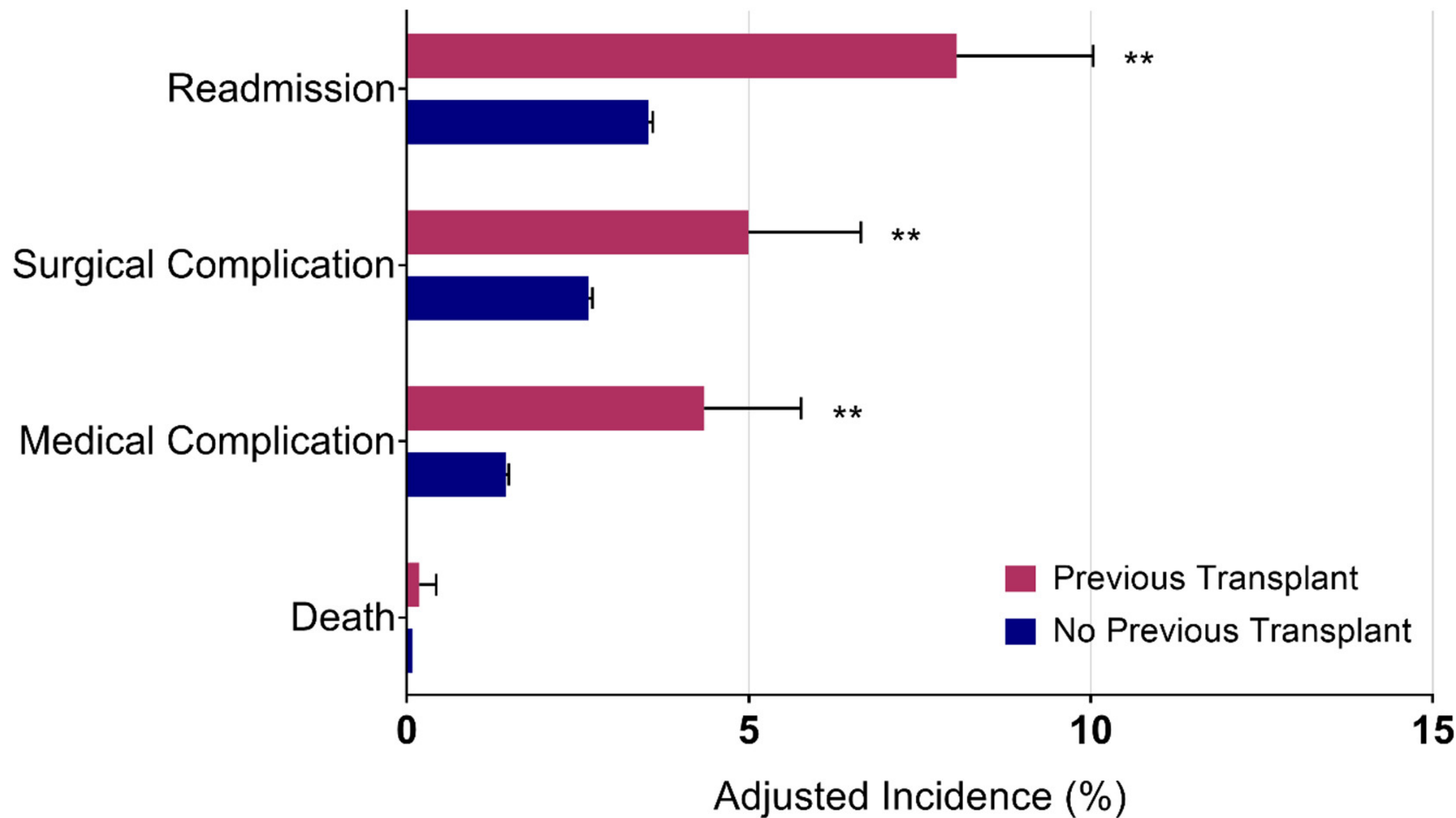
John R. Montgomery¹  | Jordan A. Cohen²  | Craig S. Brown¹  | Kyle H. Sheetz¹  | Grace F. Chao^{3,4}  | Seth A. Waits⁵ | Dana A. Telem¹

30-Day Composite Complications





30-Day Composite Complications

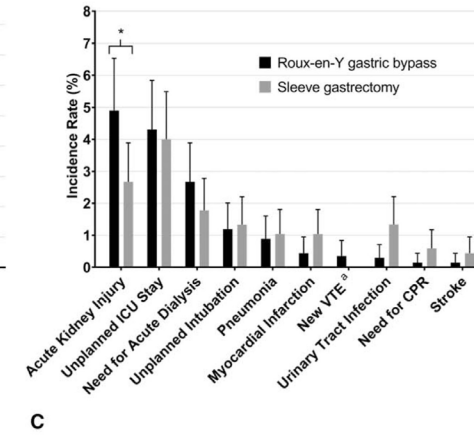
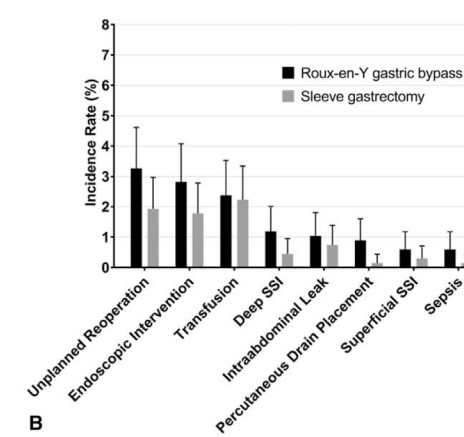
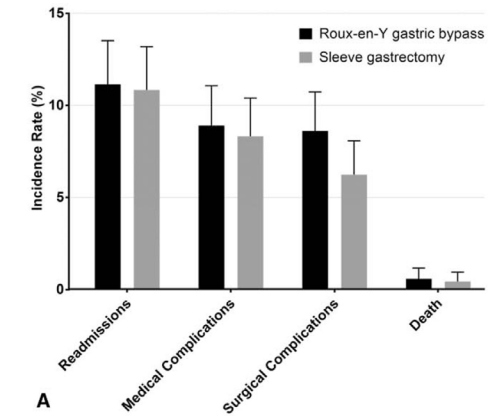
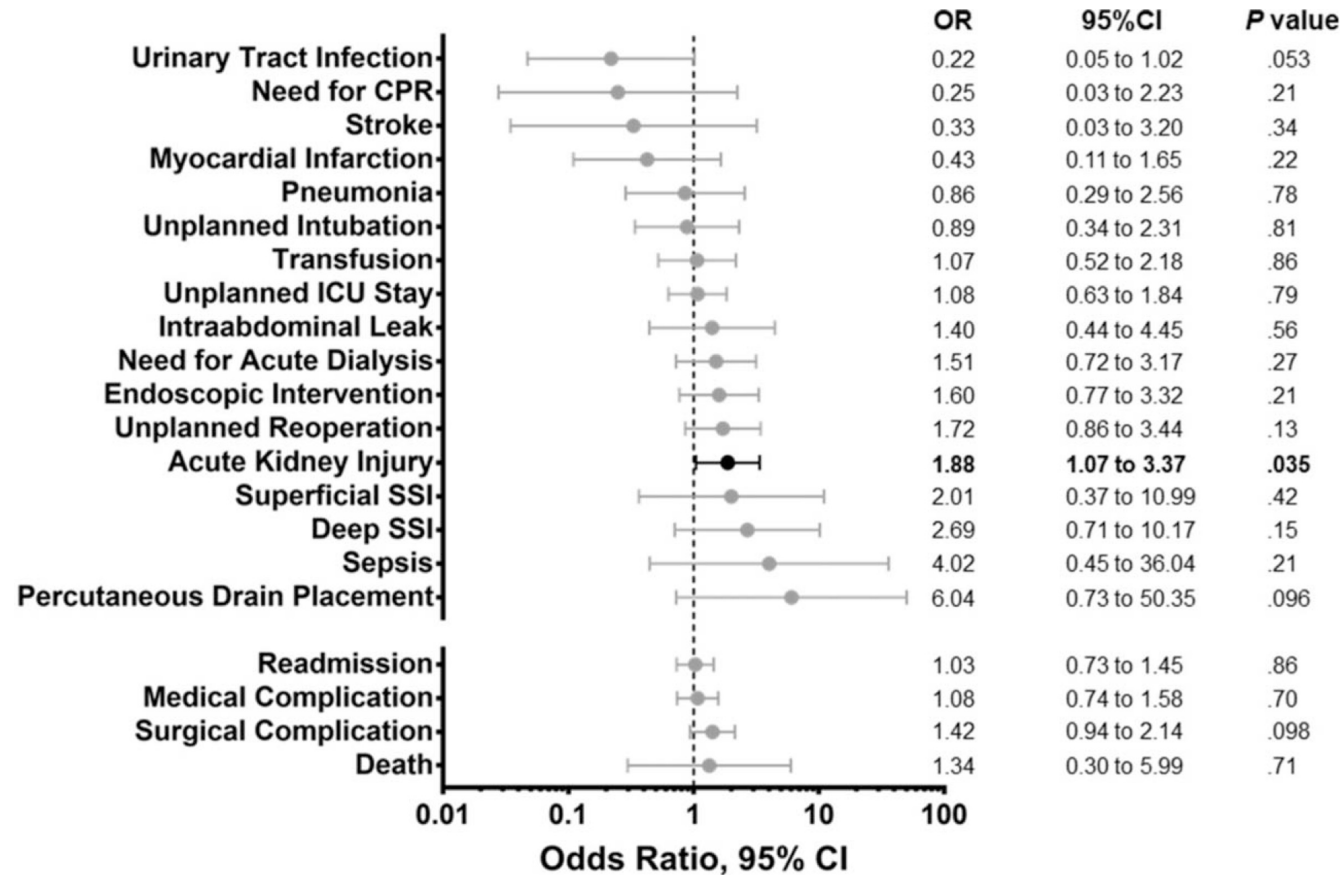


Perioperative Risks of Sleeve Gastrectomy Versus Roux-en-Y Gastric Bypass Among Patients With Chronic Kidney Disease

A Review of the MBSAQIP Database

John R. Montgomery, MD,*†✉ Seth A. Waits, MD,* Justin B. Dimick, MD, MPH,*†
and Dana A. Telem, MD, MPH*†

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November 17, 2015



see commentary on page 8

Hyperoxaluric nephrolithiasis is a complication of Roux-en-Y gastric bypass surgery

MK Sinha¹, ML Collazo-Clavell², A Rule³, DS Milliner³, W Nelson⁴, MG Sarr⁵, R Kumar^{2,3,6} and JC Lieske^{3,7}

¹Department of Internal Medicine, Mayo Clinic College of Medicine, Rochester, Minnesota, USA; ²Division of Endocrinology, Diabetes, Metabolism and Nutrition, Department of Internal Medicine, Mayo Clinic College of Medicine, Rochester, Minnesota, USA; ³Division of Nephrology and Hypertension, Department of Internal Medicine, Mayo Clinic College of Medicine, Rochester, Minnesota, USA; ⁴Mayo Medical School, Mayo Clinic College of Medicine, Rochester, Minnesota, USA; ⁵Department of Surgery, Mayo Clinic College of Medicine, Rochester, Minnesota, USA; ⁶Department of Biochemistry and Molecular Biology, Mayo Clinic College of Medicine, Rochester, Minnesota, USA and ⁷Department of Laboratory Medicine and Pathology, Mayo Clinic College of Medicine, Rochester, Minnesota, USA



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Hypocitraturia and Hyperoxaluria After Roux-en-Y Gastric Bypass Surgery

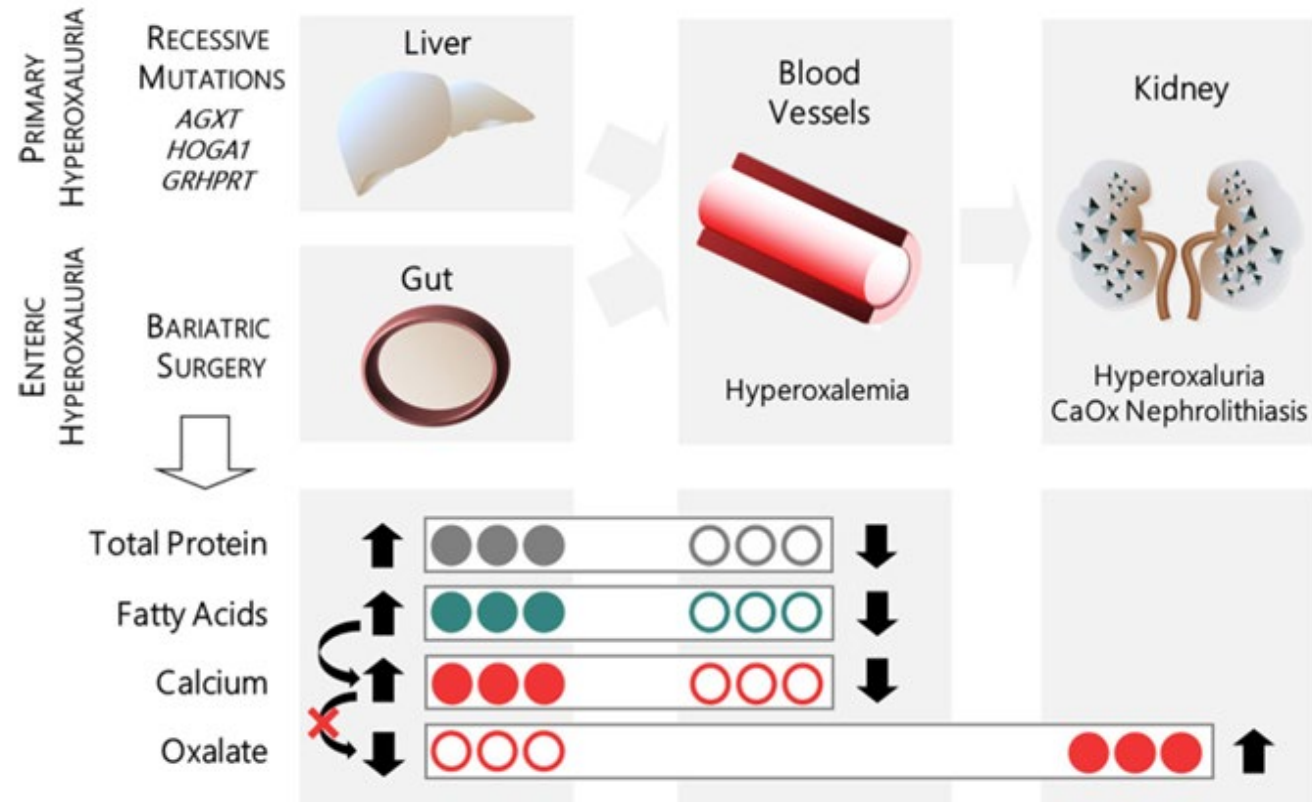
Naim M. Maalouf^{*}, Prasanthi Tondapu, Eve S. Guth, Edward H. Livingston, and Khashayar Sakhaee

Department of Internal Medicine (NMM, PT, ESG, KS), Charles and Jane Pak Center for Mineral Metabolism and Clinical Research (NMM, PT, KS) and Department of Surgery (EHL), University of Texas Southwestern Medical Center, Dallas, Texas

“...Almost half of patients with Roux-en-Y gastric bypass without a history of nephrolithiasis showed hyperoxaluria or hypocitraturia.... This prevalence was significantly higher than in body mass index matched controls. These risk factors were negated by lower urine calcium excretion in patients with Roux-en-Y

OPEN **Delta weight loss
unlike genetic variation
associates with hyperoxaluria
after malabsorptive bariatric
surgery**

Lotte Scherer^{1,4}, Ria Schönauer^{1,2,4}, Melanie Nemitz-Kliemchen², Tobias Hagemann³,
Elena Hantmann², Jonathan de Fallois¹, Friederike Petzold¹, Matthias Blüher³ &
Jan Halbritter^{1,2}✉



How does MBS compare to OMMs?

Renoprotective Effects of Metabolic Surgery Versus GLP1 Receptor Agonists on Progression of Kidney Impairment in Patients with Established Kidney Disease

Ali Aminian, MD,*[✉] Hamlet Gasoyan, PhD,[†] Alexander Zajichek, MS,[‡]

Mohammad Hesam Alavi, MD, MPH,*

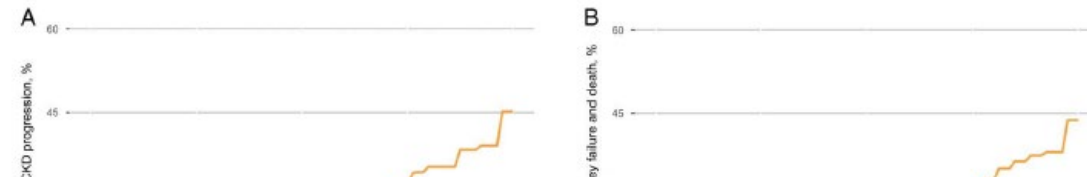
Nicholas J. Casacchia, PharmD, MSc,[†] Rickesha Wilson, MD,*

Xiaoxi Feng, MD,* Ricard Corcelles, MD,* Stacy A. Brethauer, MD, MBA,[§]

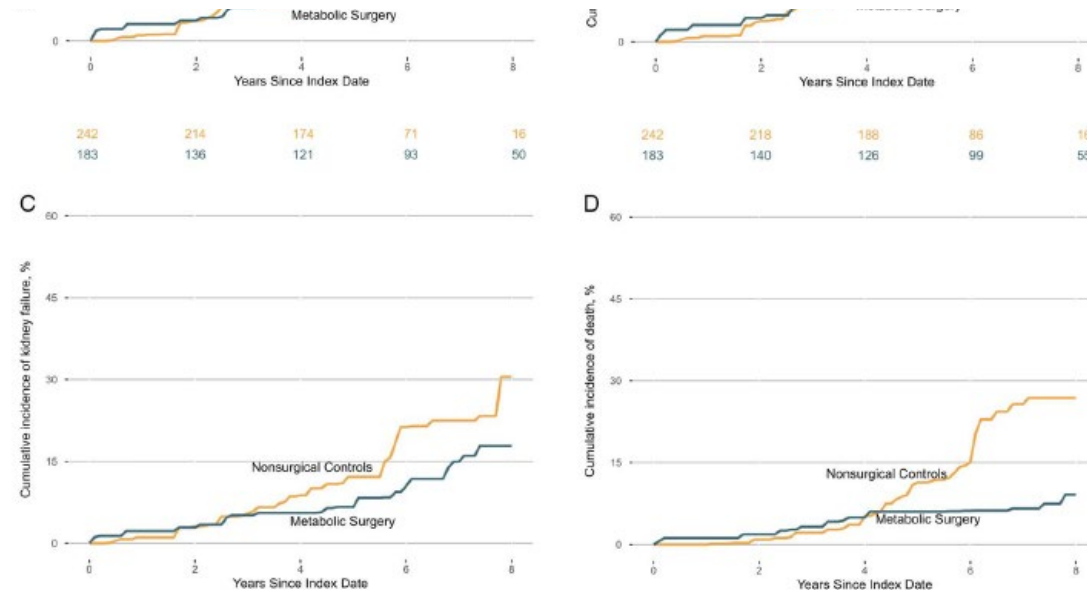
Philip R. Schauer, MD,^{||} Matthew Kroh, MD,* Raul J. Rosenthal, MD,[¶]

Jonathan J. Taliercio, DO,[#] Emilio D. Poggio, MD,[#]

Steven E. Nissen, MD,** and Michael B. Rothberg, MD, MPH[†]



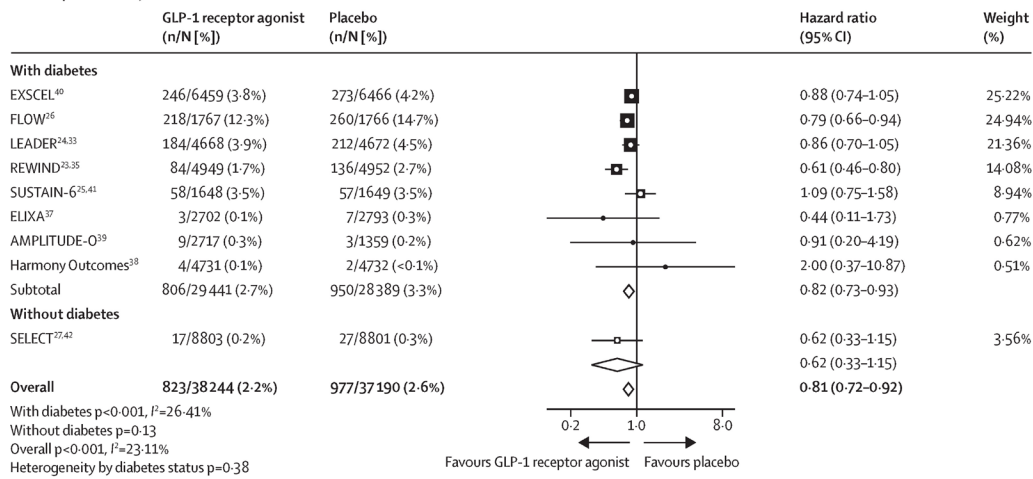
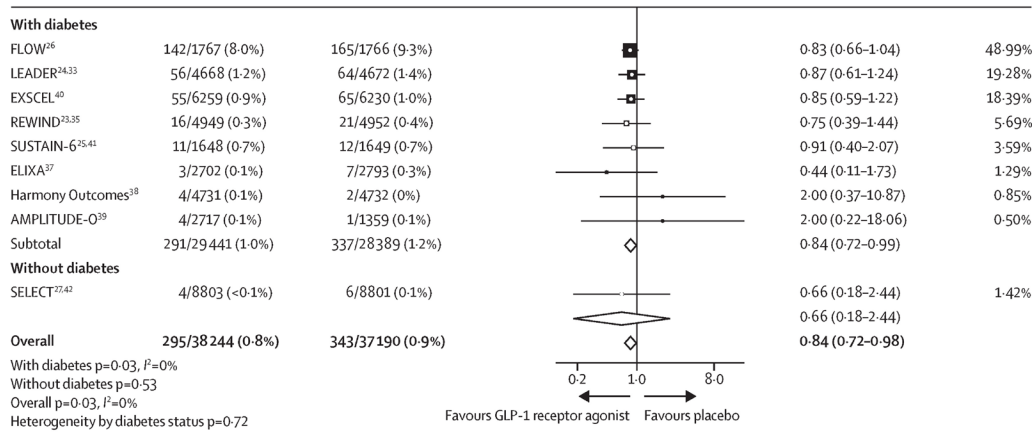
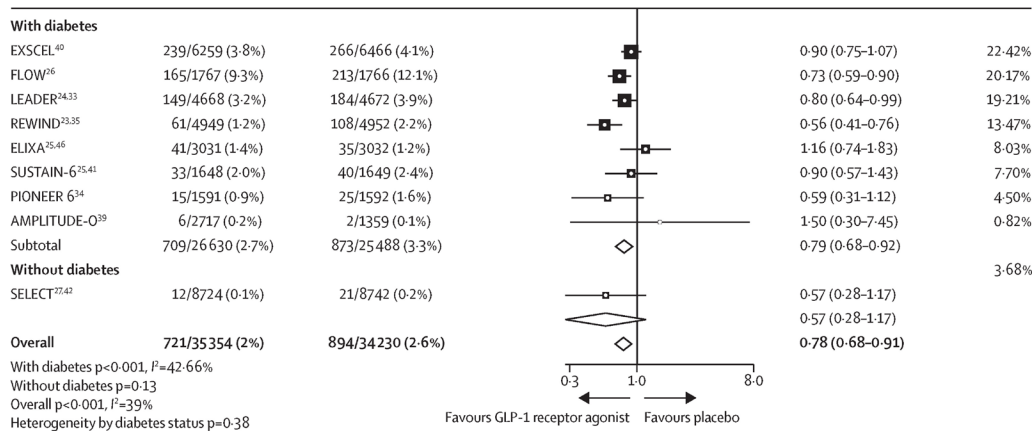
Semaglutide/Tirzepatide 16,8%)



Effects of GLP-1 receptor agonists on kidney and cardiovascular disease outcomes: a meta-analysis of randomised controlled trials



Sunil V Badve, Anika Bilal, Matthew M Y Lee, Naveed Sattar, Hertz C Gerstein, Christian T Ruff, John J V McMurray, Peter Rossing, George Bakris, Kenneth W Mahaffey, Johannes F E Mann, Helen M Colhoun, Katherine R Tuttle, Richard E Pratley, Vlado Perkovic

A Composite kidney outcome**B Kidney failure****C Worsening of kidney function**

Conclusions

- Obesity is a risk factor for ESKD and for renal transplant, as well as for graft loss
- Substantial weight loss favourably impacts eligibility to kidney transplant
- MBS in ESKD can be performed with (relative) safety
- OMM show promising results, but long-term results are lacking, and are possibly not suitable for all patients
- Probably best MBS first, then transplant
- SG probably more adequate than RYGB



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Thank you
for your
attention!

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Figure 8: The early decrease in eGFR induced by SGLT2is and GLP-1 RAs appears to differ in magnitude. Results are ...

