

Cancer Risk Reduction Following Bariatric Surgery

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Disclosures

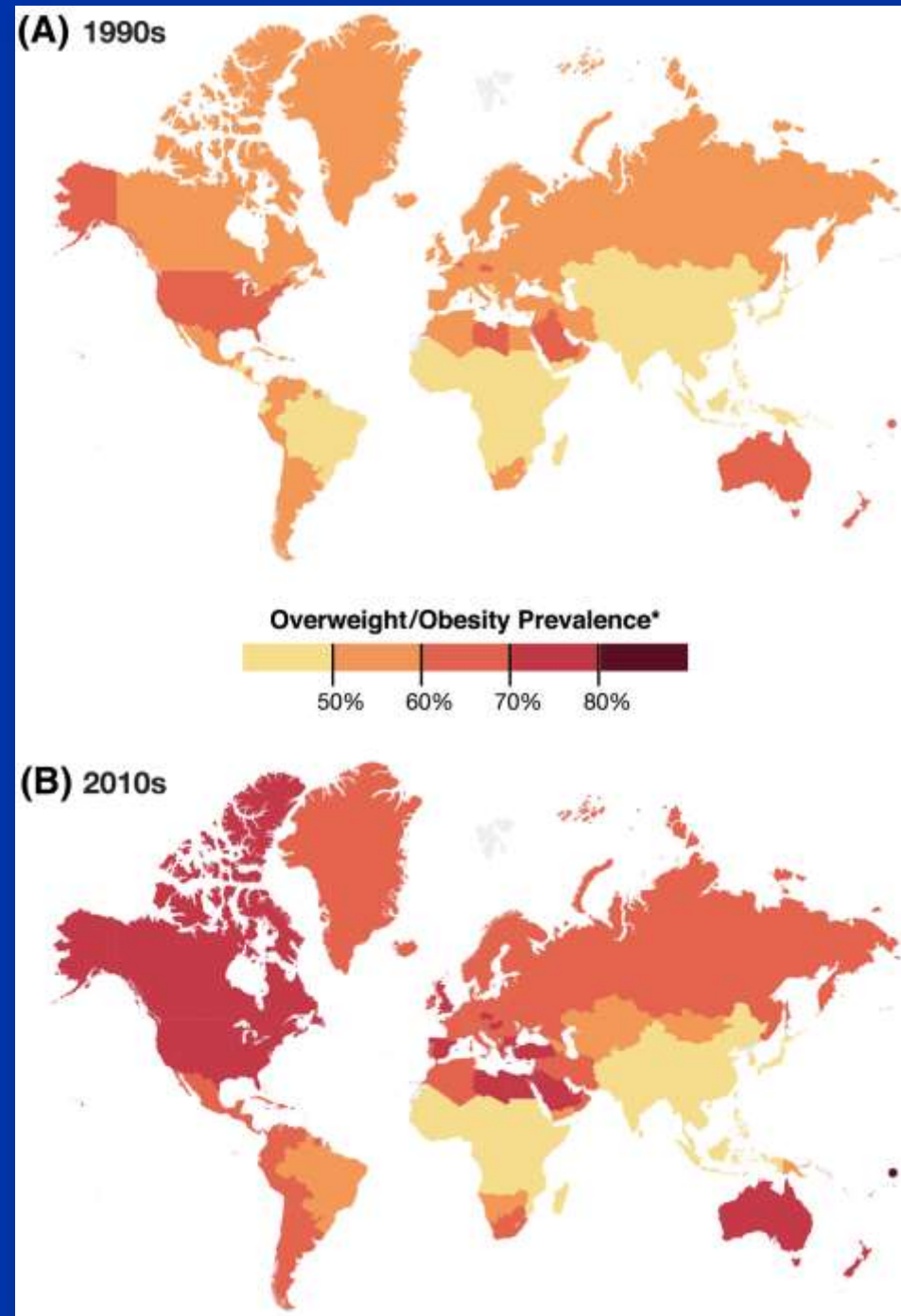
- Medtronic (research grant and honorarium)
- Ethicon (research grant and honorarium)
- NIH (research grant)

More Than Half of the World Will Have Obesity By 2035

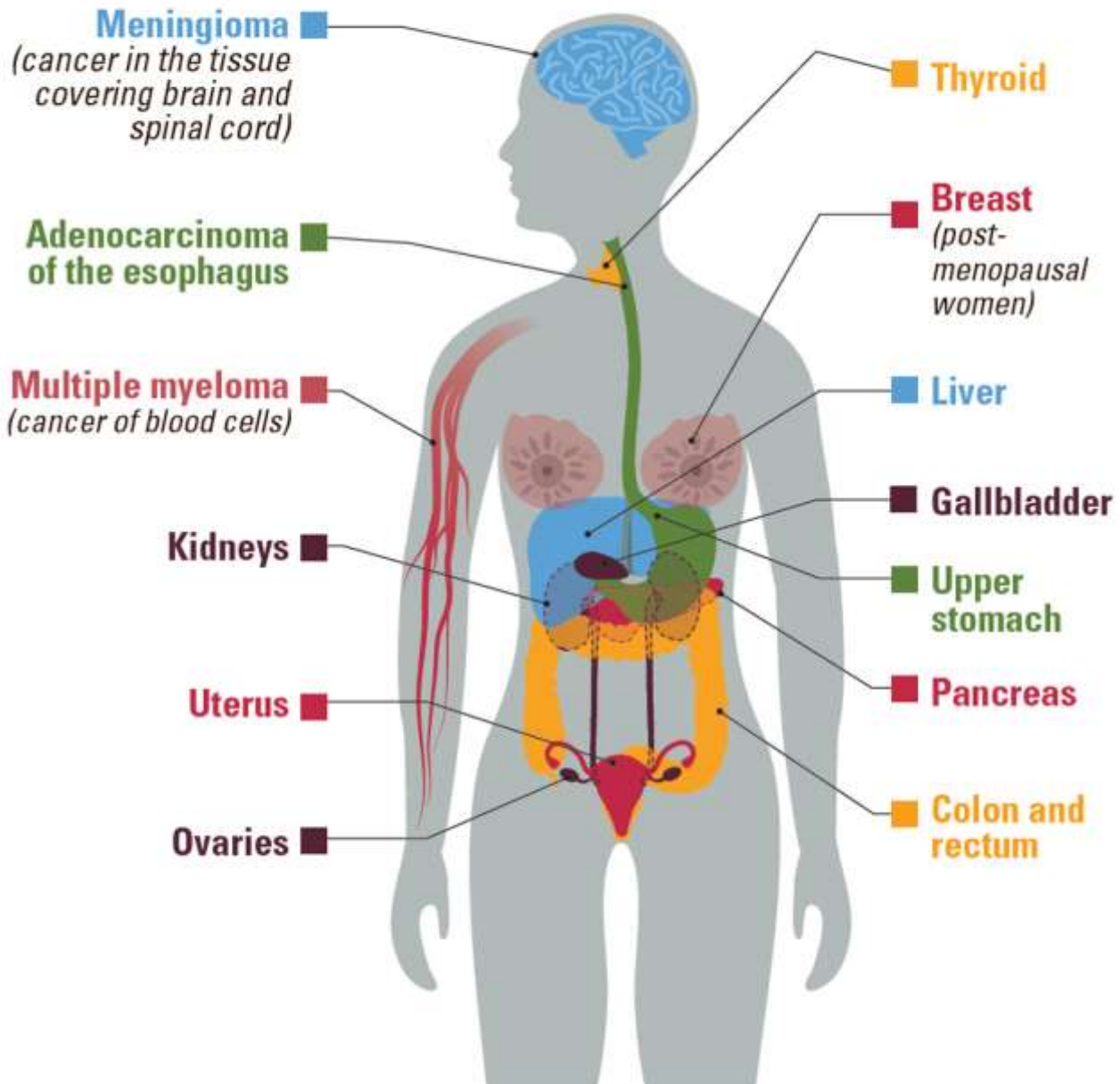
- >2 billion adults
- **>4 billion by 2035**
- Not declining in any country

World Obesity Atlas 2023

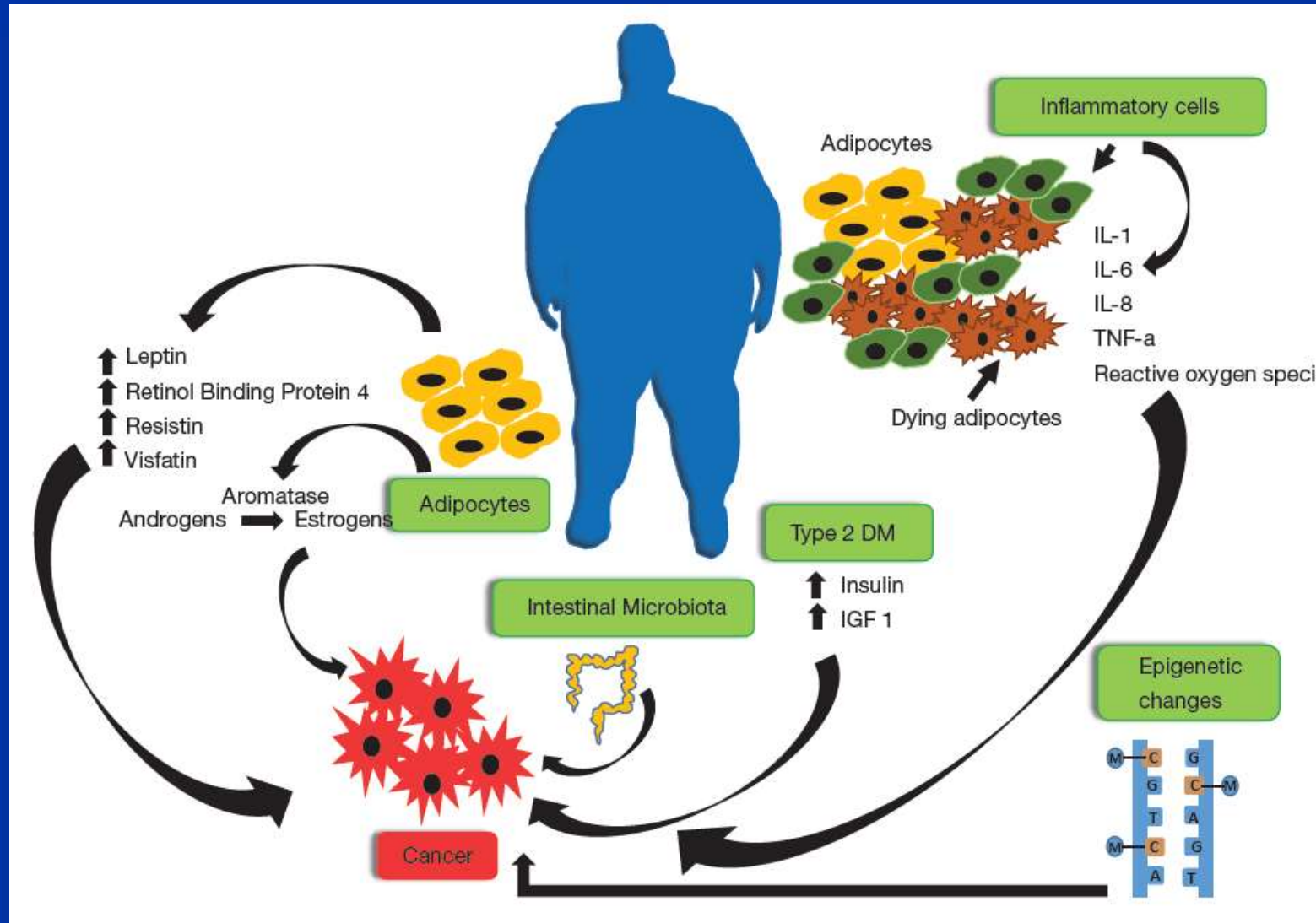
Obes Rev 2020;21:e13128



13 cancers are associated with overweight and obesity

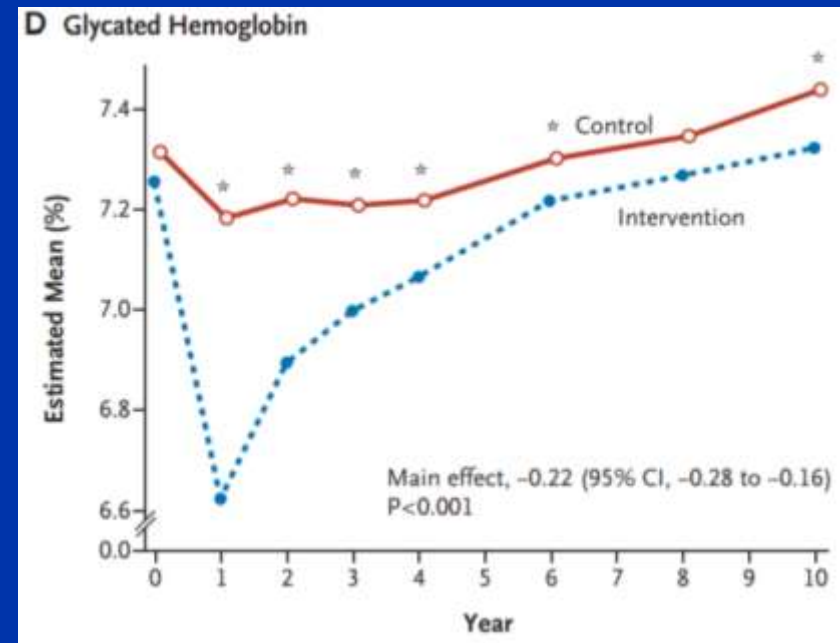
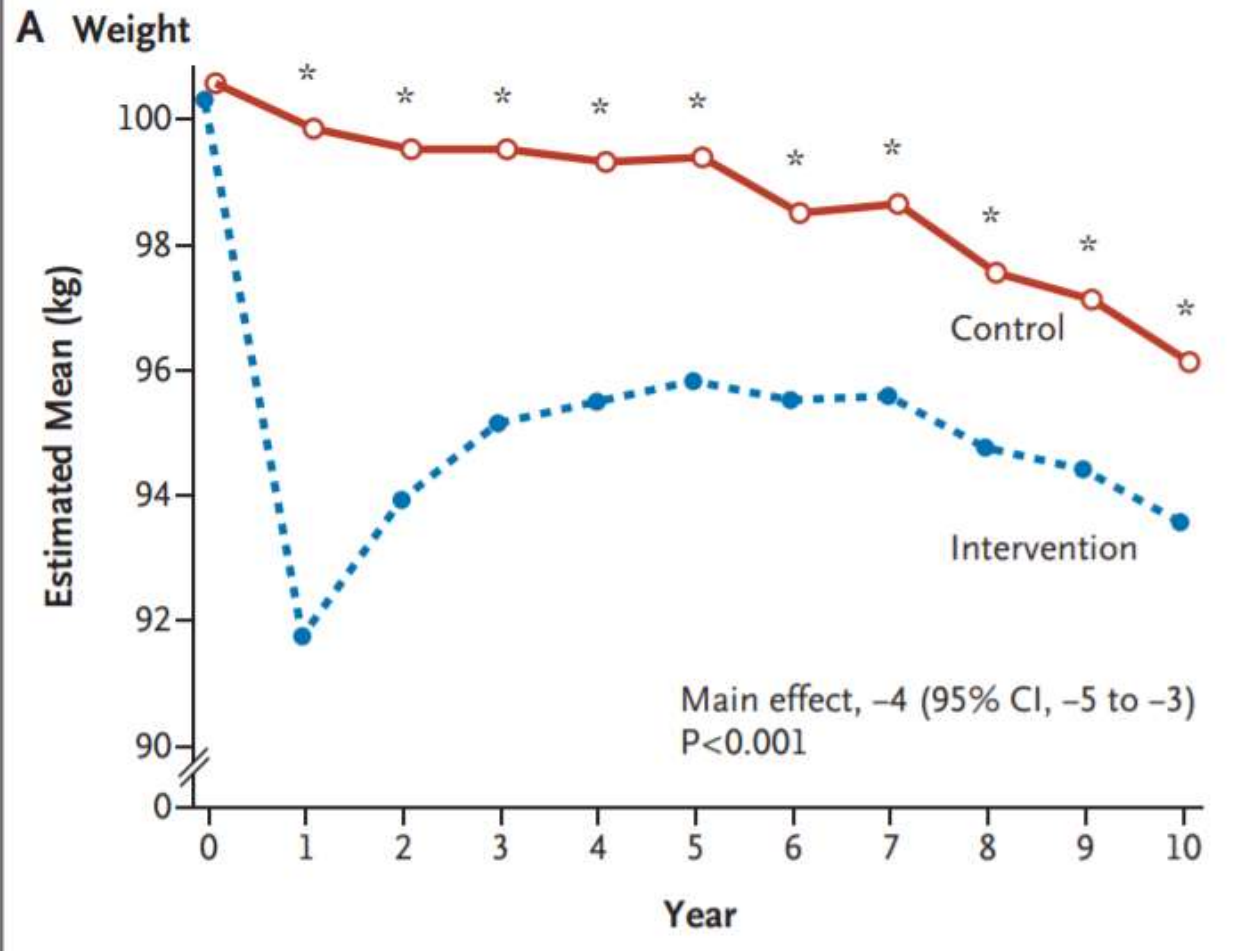


Mechanisms of Cancer Promotion by Obesity

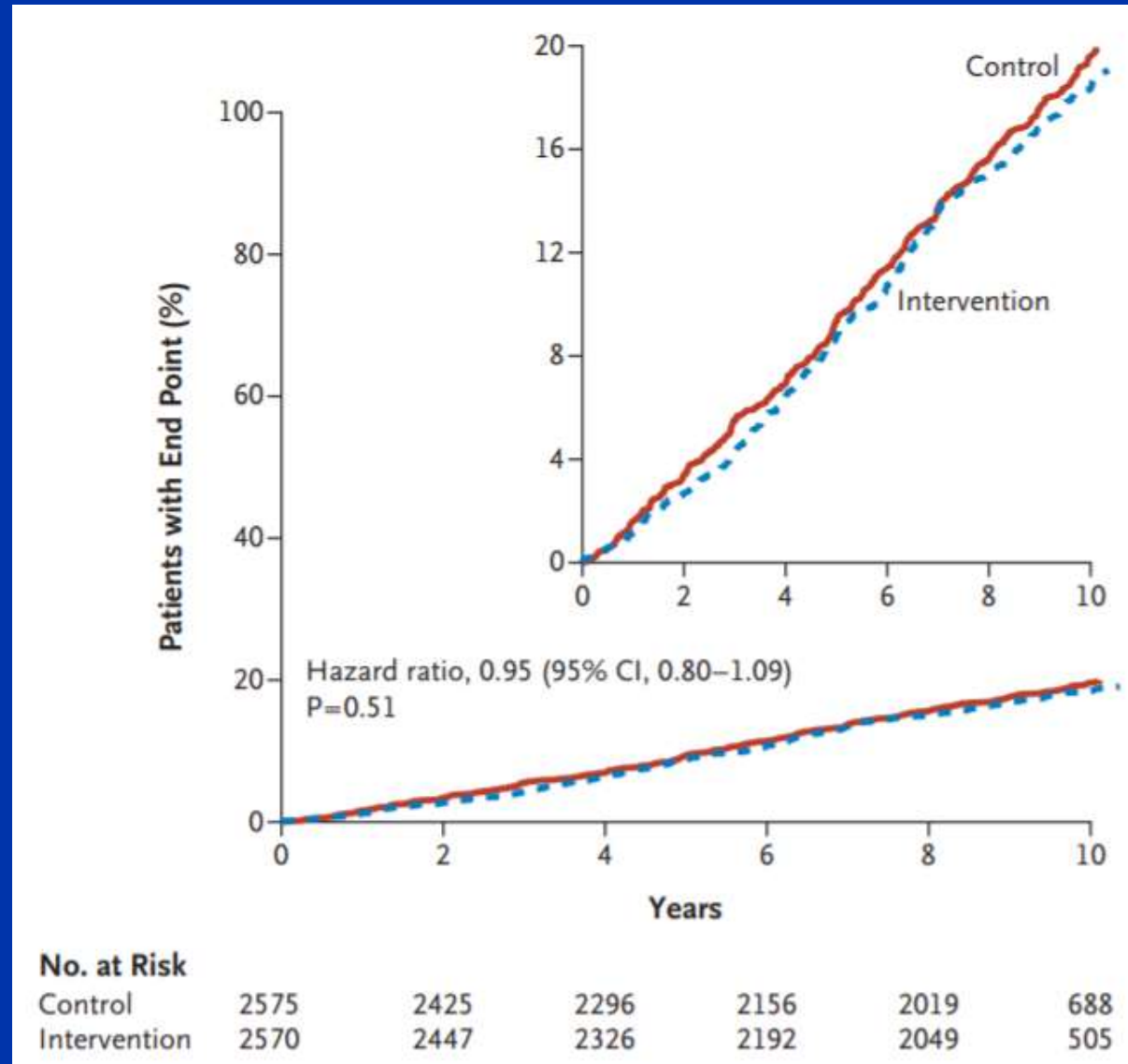


Look AHEAD

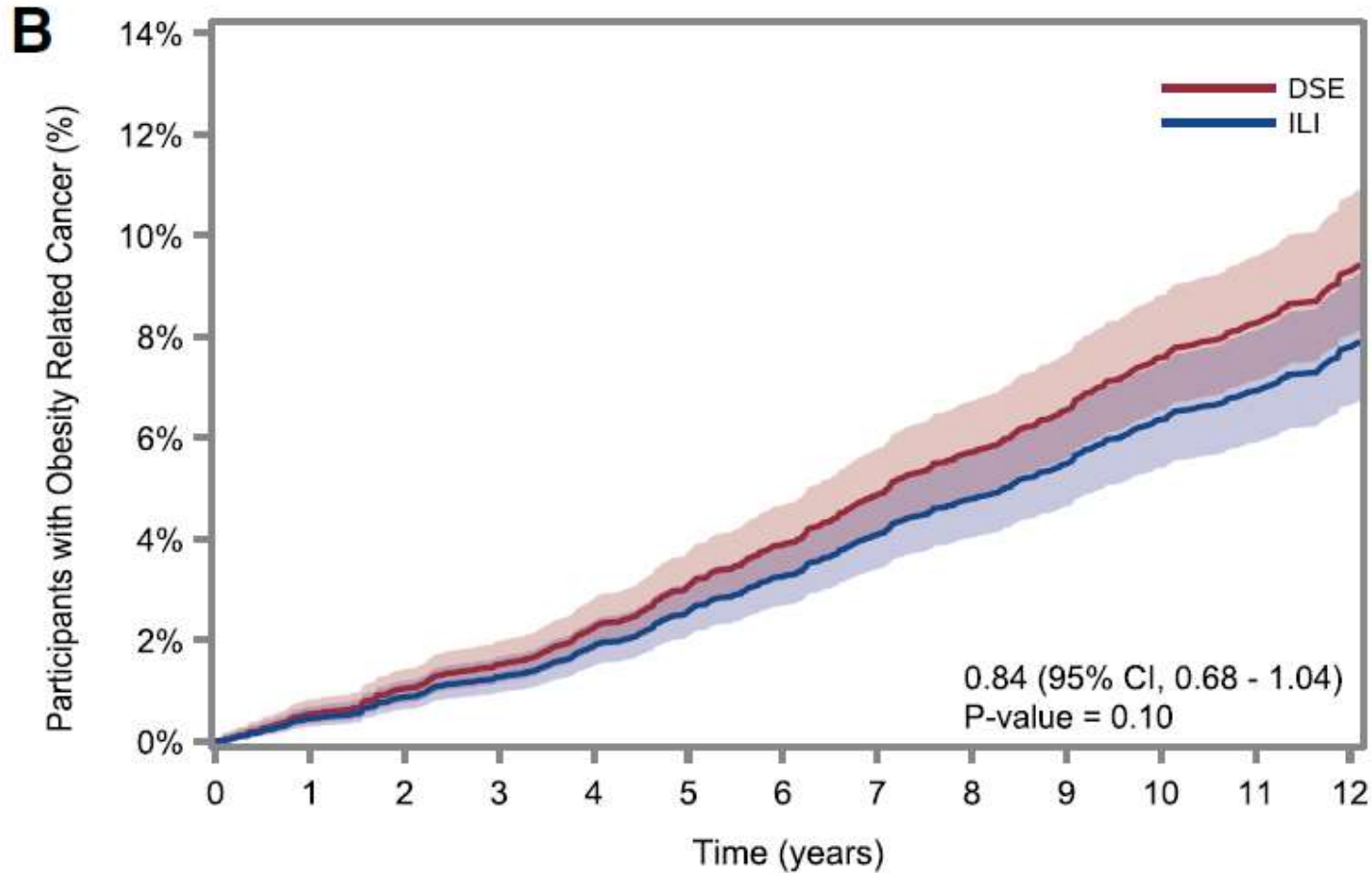
Look AHEAD



Look AHEAD & CV Risk



Look AHEAD & Cancer Risk



No. at Risk

DSE	2424	2393	2358	2314	2283	2248	2203	2159	2109	2053	1956	1732	1010
ILI	2435	2415	2378	2338	2320	2277	2242	2197	2154	2104	2016	1761	1017

3 Landmark Cancer Studies

Effects of bariatric surgery on cancer incidence in obese patients in Sweden (Swedish Obese Subjects Study): a prospective, controlled intervention trial

Lars Sjöström, Anders Gummesson, C David Sjöström, Kristina Narbro, Markku Peltonen, Hans Wedel, Calle Bengtsson, Claude Bouchard, Björn Carlsson, Sven Dahlgren, Peter Jacobson, Kristjan Karason, Jan Karlsson, Bo Larsson, Anna-Karin Lindroos, Hans Lönroth, Ingmar Näslund, Torsten Olbers, Kaj Stenlöf, Jarl Torgerson, Lena M S Carlsson, for the Swedish Obese Subjects Study

SOS

Utah

Cancer Incidence and Mortality After Gastric Bypass Surgery

Ted D. Adams^{1,2}, Antoinette M. Stroup³, Richard E. Gress¹, Kenneth F. Adams⁴, Eugenia E. Calle⁵, Sherman C. Smith⁶, R. Chad Halverson⁶, Steven C. Simper⁶, Paul N. Hopkins¹ and Steven C. Hunt¹

Bariatric Surgery and the Risk of Cancer in a Large Multisite Cohort

Daniel P. Schauer, MD, MSc, Heather Spencer Feigelson, PhD, MPH,† Corinna Koebnick, MSc, PhD,‡ Bette Caan, DrPH,§ Sheila Weinmann, PhD, MPH,¶ Anthony C. Leonard, PhD,|| J. David Powers, MS,† Panduranga R. Yenumula, MD,§ and David E. Arterburn, MD, MPH***

Kaiser

JAMA | Original Investigation

Association of Metabolic Surgery With Major Adverse Cardiovascular Outcomes in Patients With Type 2 Diabetes and Obesity

Ali Aminian, MD; Alexander Zajichek, MS; David E. Arterburn, MD, MPH; Kathy E. Wolski, MPH; Stacy A. Brethauer, MD; Phillip R. Schauer, MD; Michael W. Kattan, PhD; Steven E. Nissen, MD

Cleveland Clinic Metabolic Surgery Cohort

JAMA | Original Investigation

Association of Bariatric Surgery With Major Adverse Liver and Cardiovascular Outcomes in Patients With Biopsy-Proven Nonalcoholic Steatohepatitis

Ali Aminian, MD; Abbas Al-Kurd, MD; Rickesha Wilson, MD; James Bena, MS; Hana Fayazzadeh, MD; Tavankit Singh, MD; Vance L. Albaugh, MD, PhD; Faiz U. Shariff, MD; Noe A. Rodriguez, MD; Jian Jin, MS; Stacy A. Brethauer, MD, MBA; Srinivasan Dasarathy, MD; Naim Alkhouri, MD; Philip R. Schauer, MD; Arthur J. McCullough, MD; Steven E. Nissen, MD

JAMA | Original Investigation

Association of Bariatric Surgery With Cancer Risk and Mortality in Adults With Obesity

Ali Aminian, MD; Rickesha Wilson, MD; Abbas Al-Kurd, MD; Chao Tu, MS; Alex Milinovich, BA; Matthew Kroh, MD; Raul J. Rosenthal, MD; Stacy A. Brethauer, MD; Phillip R. Schauer, MD; Michael W. Kattan, PhD; Justin C. Brown, PhD; Nathan A. Berger, MD; Jame Abraham, MD; Steven E. Nissen, MD

JAMA Surgery | Original Investigation

Association of Weight Loss Achieved Through Metabolic Surgery With Risk and Severity of COVID-19 Infection

Ali Aminian, MD; Chao Tu, MS; Alex Milinovich, BA; Kathy E. Wolski, MPH; Michael W. Kattan, PhD; Steven E. Nissen, MD

JAMA | **Original Investigation**

Association of Bariatric Surgery With Cancer Risk and Mortality in Adults With Obesity

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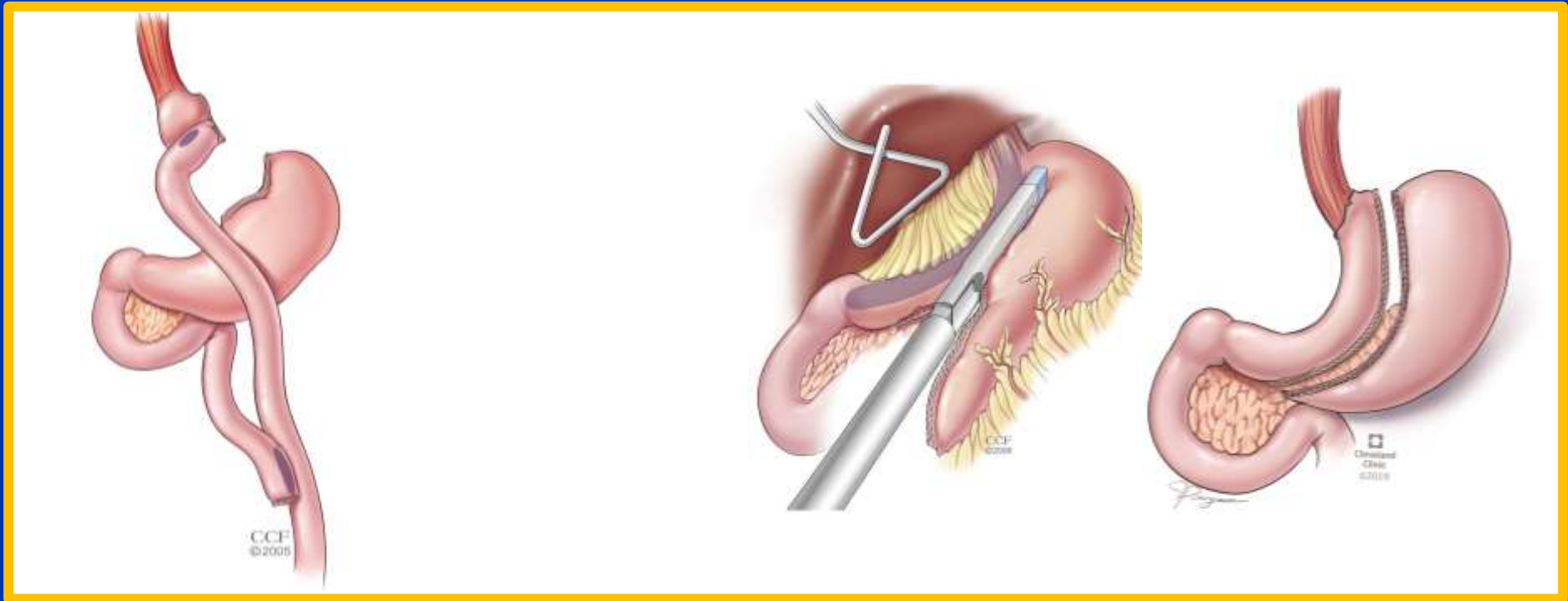
Surgical Procedures and Long-term Effectiveness in Neoplastic Disease Incidence and Death (SPLendid)



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Bariatric Surgical Procedures (N=5053)



Gastric Bypass

N=3348 (66%)

Sleeve Gastrectomy

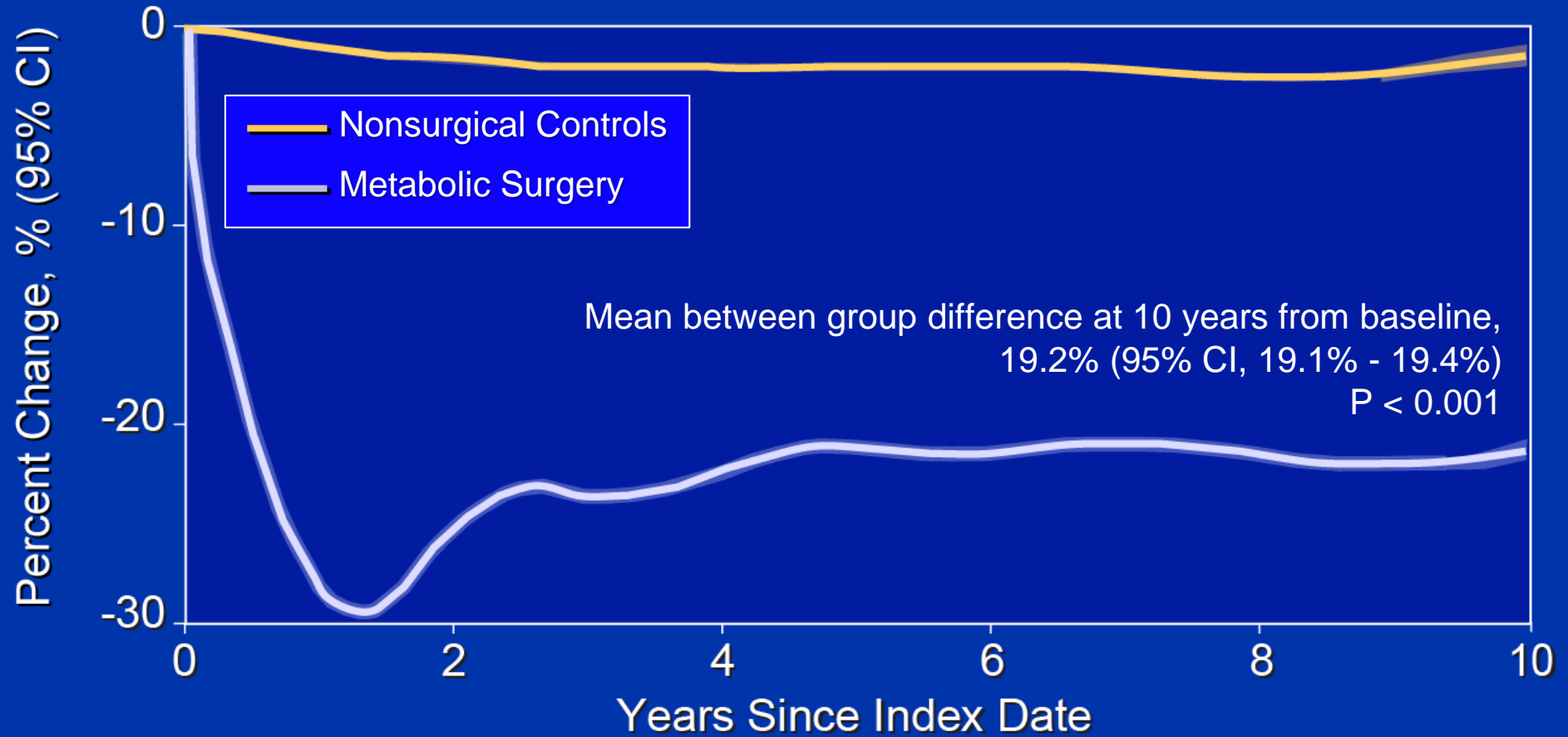
N=1705 (34%)

Primary Endpoint

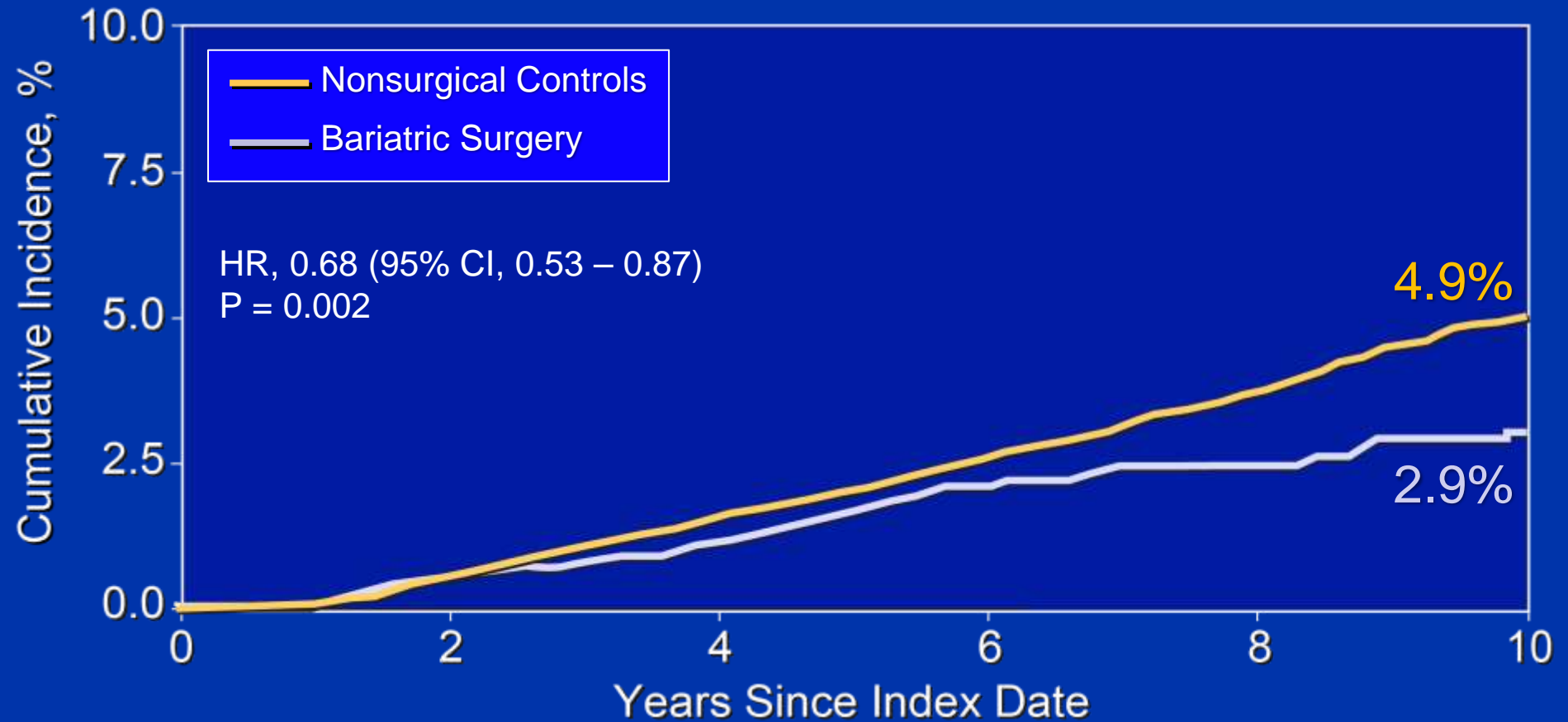
- First occurrence of 1 of 13 types of obesity-associated malignant cancers:

Esophageal adenocarcinoma, renal cell carcinoma, postmenopausal breast cancer, and cancers of the gastric cardia, colon, rectum, liver, gallbladder, pancreas, ovary, corpus uteri, thyroid, and multiple myeloma.

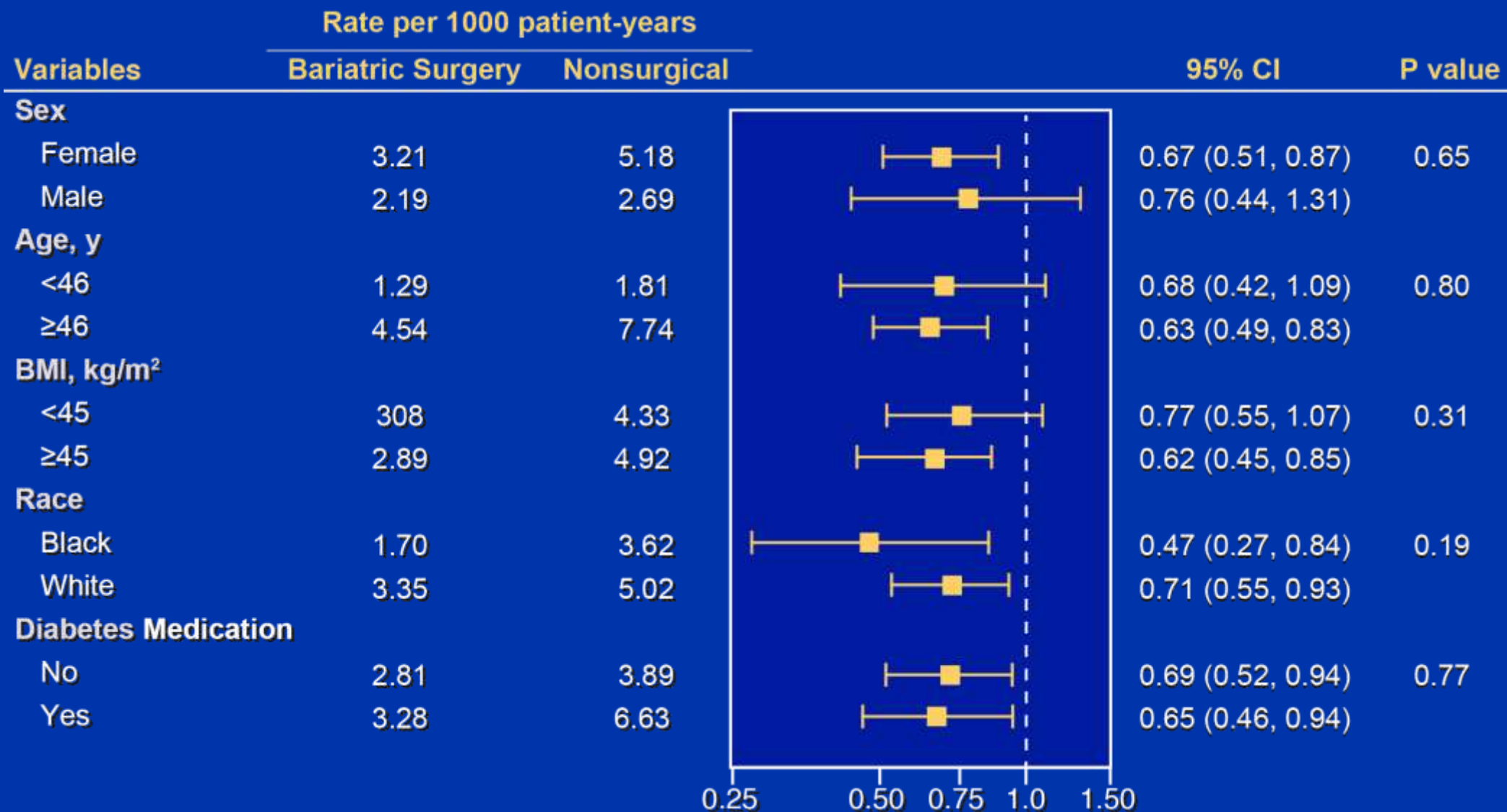
Total Weight Loss, %



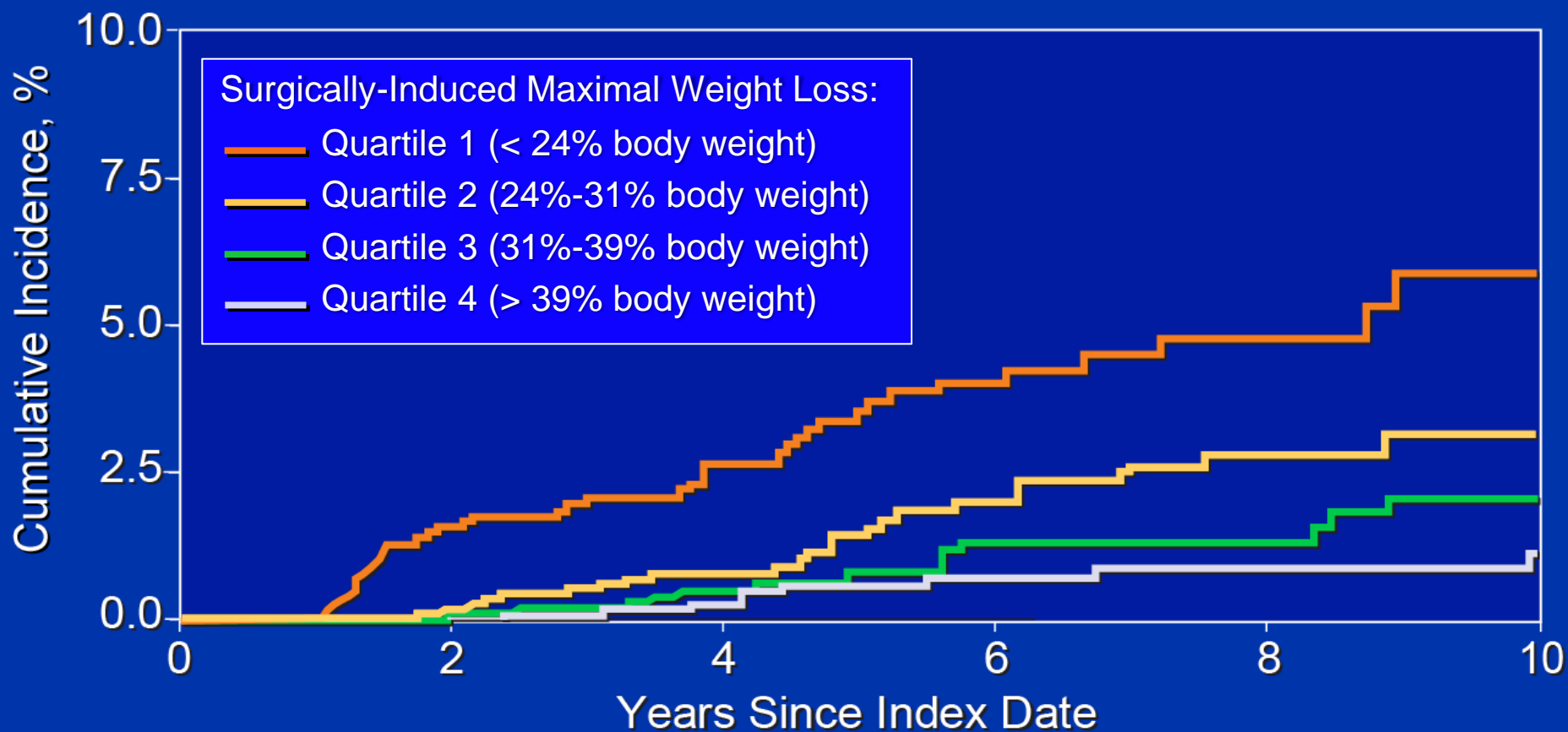
Obesity - Associated Cancers



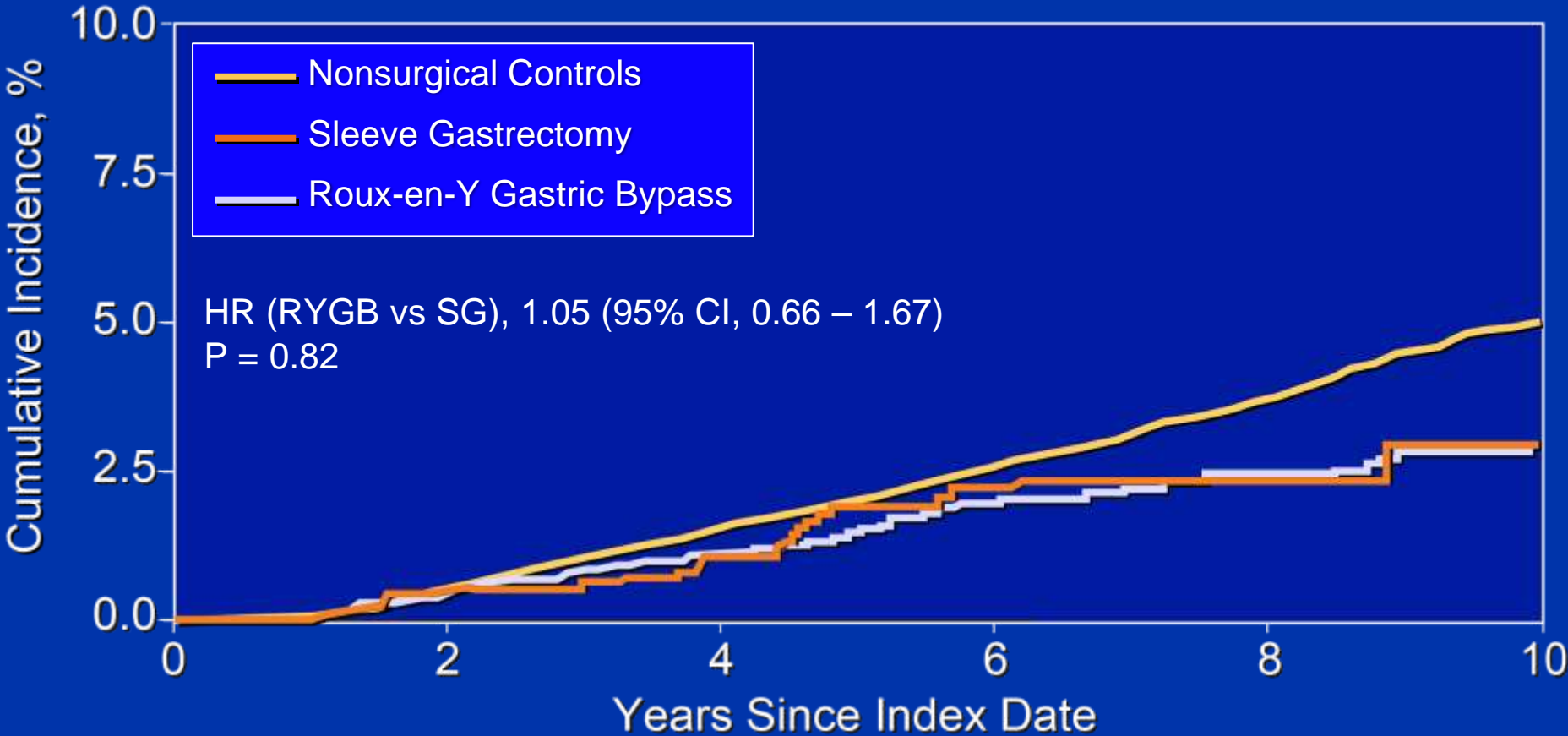
Consistency of Findings in Different Subgroups



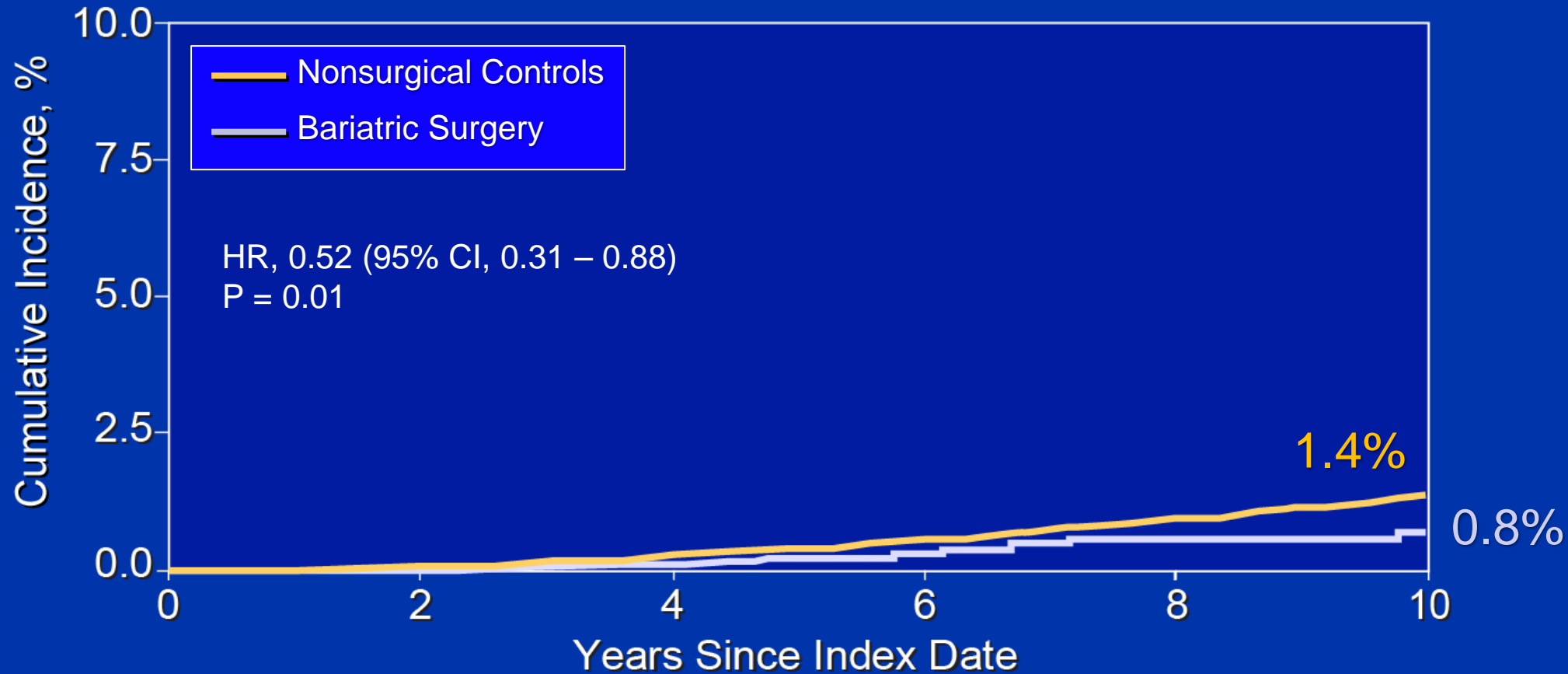
Dose-Dependent Response: Obesity - Associated Cancers by Surgically- Induced Weight Loss Quartiles



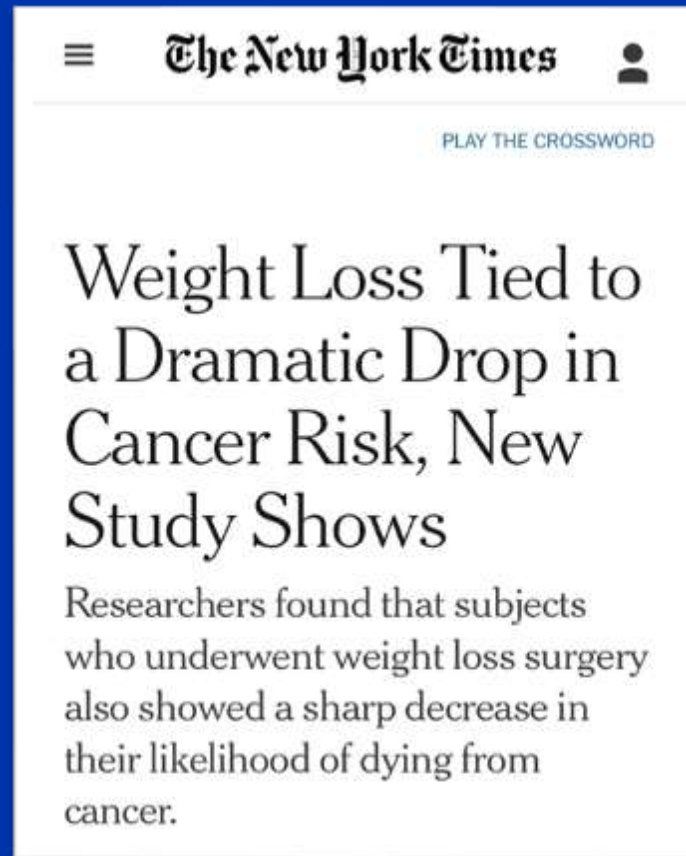
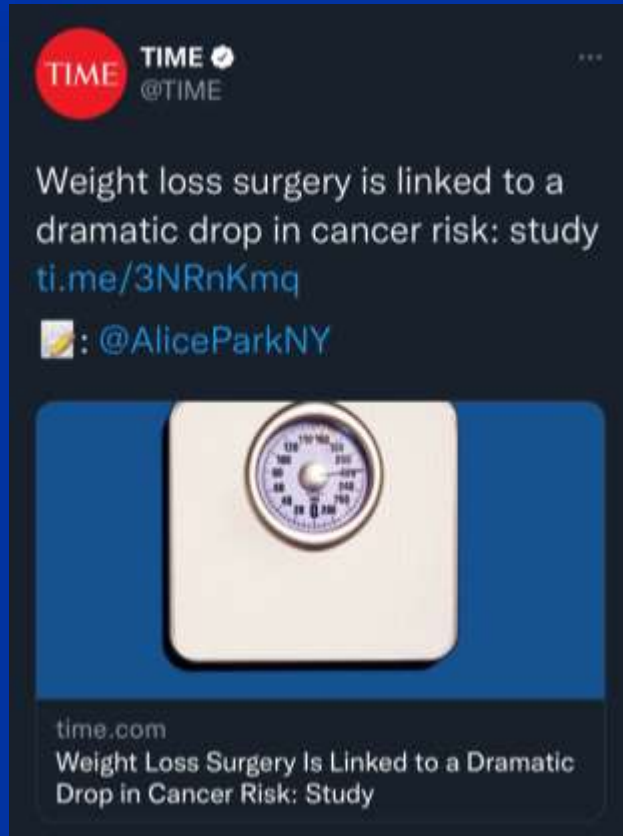
Obesity - Associated Cancers by Surgery Type



Cancer Related Mortality



Extensive Media Coverage





Thank You

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