

Association of Metabolomic Biomarkers with Sieeve Gastrectomy Weight Loss Outcomes

Famela Spicer*, Wendy Miller, MD**, Kathryn Ziegter, MD**, Street Graham, MD**

1 M. Common Common, William Resource School of Western, Manhasse M.
Singulation of Survivine and Processor Standards, Survivine Standards

State State

- Seems gastwitting (SQ) results in accordable weight loss in the majority of palents (S) freight loss bulliones do very however, and factors influencing the variability are not sell understand.
- Obese individuals have a metabolomic fingerprint that is distinct from normal weight individuals. Advantors in metabolites billuring barriotic surgery. Name Searc stendbell in previous studies. (II) Thus, changes in metabolities and metabolic pathways billowing. SG they be associated with weight tree outcomes.
- The IngoDirected that there exist be an essociation between post-operative restallatures; profiles and early? I loss outcomes.

Alims and Objectives

- Evaluate whether on individual's baseline metabolisms completes with weight loss culcomes following steroir gostrectury
- Evaluate shelfer metabolisms biomarkers, correlate with early? Yes outcomes following alsers gestractory.

March 1999

- This prospective study evaluated the mediatesmic profile of focus and servine prior to 50 and these mustbe possible, stong with seight loss subcomes at these months possible or 45 and paterns with steeply
- Serum and food samples were quantitatively profiled using a contrasplor of nuclear register recoveres ("H MMR) and tempered mass spectrometry coulded with Aqual strongetry (CALCAMSMIS) (Association) P100 of (Secretar, Intelligence)
- Pertoparts were divided into tertiles based on percent latal seager size (%TML) at Ernestonthy post-50.

Pre-specialis weight. Post-specialis weight of type months acceptal.

Photography.

- Pre-operative BMI was 40.3 ± 7.3 truits*, age was 60.2 ± 71.5 sears, and 60% sears female.
- NYM, for the highest versus the lowest weight loss tertiles (T) on T1) at three months post-60 was 17.0 (1.3% and 11.1 ± 6.9%, p=0.001
- Suseine face and serum metabolomics dol not agraficants differ between prosps.
- Patients with successful weight loss (TS) at those months, when compared to all patients at baseline, were found to have applicant allocations in facal production and (AA) metabolism, fourthe and hypothesine metabolism, and the and bosonthesis (in-0.05), (Eq.1).
- Compared total patients at baseline, patients with poor post-operative excipt tess (T1) at three months had eigenforms attendents in focal metabolites related to peophyrin metabolism, ammonta recycling, and bits and becombests (p-1):55), but not AA metabolism.

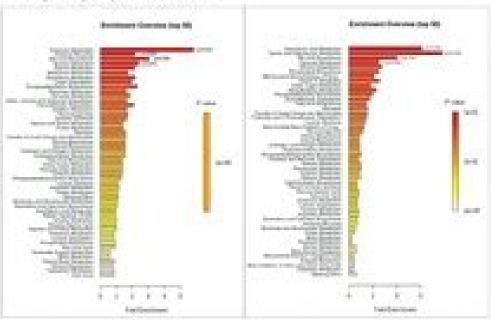


Figure 1. Attentions in facal metabolites at three-months post-sinove gestrectomy. Lowest enough loss territe (T1) and highest weight loss territe (T1) versus at participants at baseline.

Constantens.

- Studies have exemined aterptions in postsurgical metabolismics in tomatric patients. Sulf this is the first to evaluate sergitrions outcome-opeotic differences in those metabolities.
- You Kound that appelluters alterations in Rocal
 AA metabolism committee with increased
 assignt leas, while appelluters afterations in
 prophysis metabolism contentes with poor
 exignt leas. AA metabolism have been
 friend to the participhysiology of obsorby and
 the outsides and resolution of exhausturin.
 Discorders of poorphysiological relationship and
 text adoption and resolution resolutions have
 been applicable and the result resolutions and
 metabolist continues.
- Further research on pre-operative and post-SG melaforances could lead to potential targets for per-operative intervention to enhance weight less subcones.

Statement on

- Multier Mild, at al. Lapremocing in observe garginologing has implicitly and effectiveness positioned between the band and the topiess. Arm Surg 2019 204(3):416.
- Sneka E. et al Matebolomic Ingesprint of severe closely is dynamically affected by barietic surgery in a procedure dispersioni manual Am. J Clin Nutl 2015, 100:1011-25.

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Table of Contents Nutrition In Preventive Medicine

- 1. Understanding the eBook Nutrition In Preventive Medicine
 - The Rise of Digital Reading Nutrition In Preventive Medicine
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Nutrition In Preventive Medicine
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nutrition In Preventive Medicine
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Nutrition In Preventive Medicine
 - Personalized Recommendations

- Nutrition In Preventive Medicine User Reviews and Ratings
- Nutrition In Preventive Medicine and Bestseller Lists
- 5. Accessing Nutrition In Preventive Medicine Free and Paid eBooks
 - Nutrition In Preventive Medicine Public Domain eBooks
 - Nutrition In Preventive Medicine eBook Subscription Services
 - Nutrition In Preventive Medicine Budget-Friendly Options
- 6. Navigating Nutrition In Preventive Medicine eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Nutrition In Preventive Medicine Compatibility with Devices
 - Nutrition In Preventive Medicine Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nutrition In Preventive Medicine
 - Highlighting and Note-Taking Nutrition In Preventive Medicine
 - Interactive Elements Nutrition In Preventive Medicine
- 8. Staying Engaged with Nutrition In Preventive Medicine
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nutrition In Preventive Medicine
- 9. Balancing eBooks and Physical Books Nutrition In Preventive Medicine
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nutrition In Preventive Medicine
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nutrition In Preventive Medicine
 - \circ Setting Reading Goals Nutrition In Preventive Medicine
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nutrition In Preventive Medicine
 - Fact-Checking eBook Content of Nutrition In Preventive Medicine

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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