Comparison of Pregnancy Outcomes Following Gastric Bypass versus Sleeve Gastrectomy Bariatric Surgery

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Abstract

This study compares pregnancy outcomes following gastric bypass and sleeve gastrectomy bariatric surgeries. Pregnancy outcomes including maternal complications (e.g., gestational diabetes, hypertensive disorders), fetal outcomes (e.g., preterm birth, small for gestational age), and postoperative complications were assessed. Results

outcomes and provide insights into clinical management strategies for pregnant women following bariatric surgery. Further research is needed to optimize preconception counseling and postoperative care to enhance maternal and fetal health outcomes in this population.

Keywords: astric by ass leeve gastrect my regnancy uto mes aternal o m licate ns etal uto mes ariatric surgery

Introduction

ariatric surgery has bed me increasingly i revalent as a treatment if in fir severe besity, ffering substantial weight is so and metabilic import vements [1]. In ming wimen if reprinductive age with underge bariatric surgery, do nsiderath ns regarding i regnancy with mes are crucial due to intential imports in maternal and fetal health. If his introduction explores the domain arative analysis if i regnancy with mes introduction explores the domain arative analysis if i regnancy with mes introduction explores the domain arative analysis if is regnancy with mes in the duction explores the domain arative analysis if is regnancy with mes in the duction explores the domain arative analysis if is regnancy with mes in the duction explores the domain arative analysis is as and sleeve gastreed my. astric by ass and sleeve gastreed my represent distinct surgical argonal access with varying analymical and go hyst is gical effects in the gastri intestinal tract 2]. astric by ass in Ves creating a small go uch firm the stomach and repriving the small intestine, leading to changes in nutrient abs more than and is run nal regulation. Leeve gastreed my, in the other hand, in Ves removing a large of run nal signals related to an etablism.

The implicate ns f these is requires n regnancy ut mes are f articular interests, revir us studies have suggested that bariatric surgery can affect fertility, j regnancy & mj licath ns such as gestath nal diabetes and hypertensive dis rders, as well as fetal gr wth and devel ment (3-6]. Merstanding the differential effects f gastric by ass versus sleeve gastrect my n these uto mes is essential r timizing red nos then d unseling and stative care her w men g lanning g regnancy after bariatric surgery. weden, with its it bust healthcare system and one rehensive registries, in vides an ideal setting it r studying these tuto mes. This o my arative analysis aims to ntribute the growing body f literature n bariatric surgery and regnancy by elucidating the si ecific impacts f gastric by ass and sleeve gastrect my n maternal and fetal health. y identifying differences in g regnancy to mes between these surgical agg it aches, healthcare 🖸 🕈 Viders can tail r management strategies 🕅 mitigate 🕯 tential risks and enhance reg r ductive health uto mes r r w men wh have underg ne bariatric surgery (7]. This intr duct n sets the stage r examining the results of ur study and discussing their invitiant in the r clinical f ractice and future research in this important area f healthcare.

Materials and Methods

articipants included when free holductive age (1 -45 years)

who had undergo ne either gastric by ass r sleeve gastrect my r r r regnancy | regnancies ccurring after surgery were identified and included in the analysis. xclust n criteria & my rised y regnancies with inc mi lete medical rec rds r i regnancies ccurring within the first year st-surgery. aseline dem gras hic information (e.g., age, i at surgery), surgical details (e.g., type f surgery, date f surgery), and i re i erative e m rbidities (e.g., diabetes, hy ertenst n) were & llected. regnancy tuto mes assessed included maternal e my licate ns (e.g., gestate nal diabetes, hyp ertensive dis rders), fetal tuto mes (e.g., reterm birth, small tr gestational age), and st st erative & my licate ns (e.g., nutrite nal deficiencies). tatistical It is no between gastric by ass and sleeve gastrect my groups were ert rmed using auf te riate meth ds (e.g., chi-q uare test, t-test) t analyze differences in regnancy tto mes. djustments r r tential on no unding variables such as maternal age, i, and g reg erative e m rbidities were e nsidered in the analysis. I no rmed Insent was waived due the retro sective nature f the study. atient data were an nymized and handled in ace relance with ethical guidelines 🕈 ensure & nfidentiality and g rivacy. / imitat ns 🕈 f the study included its retr s ective design, reliance n medical red rds f r data extraction, and pot tential biases inherent in observational studies.

ddith nally, generalizability may be limited the si ecificity ulath n and healthcare setting studied. Verall, this mether is gical as it ach aimed to it vide of my rehensive insights into the of my arative regnancy uto mes fill wing gastric by ass and sleeve gastrect my bariatric surgeries, of ntributing to evidence-based if ractice and informing clinical management strategies for women undergoing these if cedures.

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Received: 01-July-2024, Manuscript No: jowt-24-142925, Editor assigned: 03-July-2024, Pre QC No: jowt-24-142925 (PQ), Reviewed: 16-July-2024, QC No: jowt-24-142925, Revised: 23-July-2024, Manuscript No: jowt-24-142925 (R) Published: 31-July-2024, DOI: 10.4172/2165-7904.1000710

Citation: Muriel C (2024) Comparison of Pregnancy Outcomes Following Gastric Bypass versus Sleeve Gastrectomy Bariatric Surgery. J Obes Weight Loss Ther 14: 710.

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Results and Discussion

The findings of this study highlight several important ∂ nsiderath ns regarding regnancy but mes h lb wing gastric by ass versus sleeve gastreet my bariatric surgeries. astric by ass was ass ciated with a higher incidence f gestate nal diabetes and hypertensive dis rders & ma ared & sleeve gastrect my, reflecting tential differences in metab lic and h rm nal changes induced by these of cedures]. The bserved higher rates for reterm birth and small for gestational age infants after gastric by ass suggest the need r heightened m nit ring and management strategies in regnancies here wing this surgery. These with mes may be influenced by fact rs such as nutrient abs in the n, is real alterations, and maternal weight N ss st-surgery. Inversely, sleeve gastrect my as eared t I nfer advantages in terms f i wer rates f maternal o my lications like and hypertensive dis rders, alth ugh maternal nutrith nal deficiencies and gastre intestinal symple ms were de my arable between the two groups. These findings underso re the importance of g ers nalized g red nog then d unseling and multidiscip linary care her w men ansidering r experiencing regnancy after bariatric surgery 10]. I imitate ns \tilde{f} the study include its retress ective nature, reliance In medical red rds, and p tential biases inherent in bservati nal research. uture in si ective studies with larger same le sizes and nger h lh w-up p erh ds are needed to o nfirm these findings and elucidate the underlying mechanisms influencing, regnancy uto mes after different bariatric i n cedures. I n c nclust n, this study i n vides Valuable insights into the o m arative regnancy uto mes to lo wing gastric by ass and sleeve gastrect my bariatric surgeries. These findings & ntribute & evidence-based ractice by in rming clinicians and atients ab ut a tential risks and benefits ass ciated with these i r cedures in the c ntext f rei r ductive health.

Conclusion

ur study in Vides & mirchensive insights into regnancy uto mes fill wing gastric by ass and sleeve gastrect my bariatric surgeries, highlighting distinct differences that can inform clinical ractice and ration of unseling. aternal tuto mes, including the incidence f gestate nal diabetes mellitus and hypertensive disorders, differed significantly between the two surgical groups. astric by ass was associated with higher rates f these of milicate ns of mi ared sleeve gastrect my, underso ring the stential metabilic and for reterm birth and small for gestate nal age infants of mi ared to sleeve gastrect my. These findings suggest that gastric by ass mays se higher risks to fetal growth and development, so subly due to nutrith nal deficiencies of the side of side set-surgery.

The bserved differences in regnancy uto mes emphasize the importance f tail red red new to no unseling and specialized renatal care for when whe have undergone bariatric surgery. ealthcare for viders should onsider the surgical history, nutrity nal Page 2 of 2

status, and metab lic changes se cific to each status, and metab lic changes se cific to each status attent when managing segnancies in this status in the interval of the second status in the second status is a second status in the second status in the second status in the second status is the second status in the second s

research in this field is crucial h further refine clinical guidelines and $\sup_{a} h$ rtg ers' nalized care h r this gr wingg atient h ulat h.

Acknowledgement

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Conflict of Interest

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