



Operating on Patients with Morbid Obesity – Challenges & Considerations

Mr. Waleed Al-Khyatt, PhD, FRCS

Consultant Laparoscopic, Obesity, & Upper GI Surgeon Hon. Ass. Professor of Surgery – University of Nottingham

The East-Midlands Bariatric & Metabolic Institute Derby - United Kingdom









- The scale of the problem
- Bariatric surgery as a model of operating on patients with morbid obesity
- Preoperative considerations
- Intra-operative considerations
- Postoperative considerations





























NOTES: Age-adjusted by the direct method to the year 2000 U.S. Census Bureau estimates using age groups 20–39, 40–59, and 60–74. Overweight is body mass index (BMI) of 25 kg/m² or greater but less than 30 kg/m²; obesity is BMI greater than or equal to 30; and extreme obesity is BMI greater than or equal to 40. Pregnant females were excluded from the analysis.

SOURCES: NCHS, National Health Examination Survey and National Health and Nutrition Examination Surveys.









NOTES: Age-adjusted by the direct method to the year 2000 U.S. Census Bureau estimates using age groups 20–39, 40–59, and 60–74. Overweight is body mass index (BMI) of 25 kg/m² or greater but less than 30 kg/m²; obesity is BMI greater than or equal to 30; and extreme obesity is BMI greater than or equal to 40. Pregnant females were excluded from the analysis.

SOURCES: NCHS, National Health Examination Survey and National Health and Nutrition Examination Surveys.































Primary surgery for adults: Average number of obesity-related diseases; database entries with no missing obesity-related disease data







twitter

Scale of problem







Operation













Musculo-skeletal pain

Operation



Liver disease



twitter

Twitter: Al_Khyatt









Polycystic ovarian syndrome





waleed.al-khyatt@nhs.net

NHS

University Hospitals of Derby and Burton







Is operating on patients with morbid obesity safe?











Post-operative stay / days









Primary surgery for adults: post-operative complications; operations in financial years 2013-2018 Complication reported Yes Unspecified Rate No Gastric band 4.075 2 422 0.05% Operation and kind of post-operative complication Roux en Y gastric bypass 1,131 0.24% 43 17,930 Cardio-vascular OAGB / MGB 0.07% 1,484 1 30 complications Sleeve gastrectomy 13,086 28 727 0.21% All 36,575 74 2,310 0.20% Gastric band 4,034 30 435 0.74% Roux en Y gastric bypass 2.49% 17.509 448 1,147 Other OAGB / MGB 1.470 18 1.21% 27 complications Sleeve gastrectomy 12,774 303 764 2.32% All 2,373 2.18% 35,787 799 Gastric band 0.00% 4,497 0 2 Roux en Y gastric bypass 0.05% 19.061 9 34 In-hospital OAGB / MGB 1,510 2 3 0.13% mortality Sleeve gastrectomy 13,817 5 0.04% 19 All 38,885 16 0.04% 58





EMBMI Team

University Hospitals of Derby and Burton NHS Foundation Trust













INTERNAT	tional jou	rnal of IL CANCER	Latest content	Current issue	Archive	Auth
Home / Arch	ive / Volume 2	8, Issue 5				
	Article Text	Surgeons Corner The Feasibility of Laparoscopic Surgery in Gynecologic Oncology for				
	Article info	Obese and Morbidly Obese Patients Jessie Peng, BHSc [*] , Sarah Sinasac, MD ^{†, ‡} , Katherine J. Pulman, MD ^{†, ‡} , Liying Zhang, PhD [†] Feigenberg, MD ^{†, ‡}	, Joan Murphy, MD) ^{†,‡} and Tomer		

laparoscopic gynaecologic-oncology procedures for obese patients are feasible and safe









- Preoperative considerations
 - MDT approach
- Intraoperative considerations
 - Approach: lap vs robotic vs open
 - Position
 - Kits
- Postoperative considerations
 - ERAS protocol





Considerations



- Preoperative considerations MDT approach
 - Anaesthetist
 - Bariatric dietitian
 - Bariatric physiotherapist
 - Metabolic physician
 - Other specialty input
 - Theatre team planning +/- mock test
 - Admin team logistic arrangement



Twitter: Al_Khyatt







- Intraoperative considerations
 - Planning: Kits, Instruments, table etc
 - Transfer
 - Anaesthesia
 - Positioning
 - Recovery & transfer





Positioning









Surface landmarks



















Open (Hasson) approach

Veress Needle

Optical port (Visiport)









- Open (Hasson) approach
 - Feasibility?

- Veress Needle
 - Success rate?

- Optical port (Visiport)
 - Evidence-based



Twitter: Al_Khyatt







Gynecologic Endocrinology and Reproductive Medicine | Published: 08 January 2021

Randomized control trial on effectiveness and safety of direct trocar versus Veress needle entry techniques in obese women during diagnostic laparoscopy

Joseph I. Ikechebelu, George U. Eleje [⊡], Ngozi N. Joe-Ikechebelu, Chidimma Donatus Okafor, Boniface Chukwuneme Okpala, Emmanuel O. Ugwu, Cyril Emeka Nwachukwu, Chukwuemeka C. Okoro & Princeston <u>C. Okam</u>

- Vesiport may be an effective alternative to Veress needle for pneumoperitoneum in obese women.
- A significantly lower duration of the procedure shorter exposure to anesthesia.
- Both methods are equally effective as there was no significant difference in the complications recorded.









Best Practice & Research Clinical Obstetrics and Gynaecology

Contents lists available at ScienceDirect

journal homepage: www.elsevier.com/locate/bpobgyn



11

Obesity in laparoscopic surgery

K. Afors, MD ^{a, *}, G. Centini, MD, Gynaecology Minimal Access Fellows ^b, R. Murtada, MD, Gynaecology Minimal Access Fellows ^b, J. Castellano, MD, Gynaecology Minimal Access Fellows ^b, C. Meza, MD, Gynaecology Minimal Access Fellows ^b, A. Wattiez, MD ^c

 When compared with direct trocar entry, Veress entry is associated with a higher rate of failed entry, extra-peritoneal insufflation and omental injury.







Optical port









Optical port







Postop considerations





EMBM

waleed.al-khyatt@nhs.net

NHS

University Hospitals of

Derby and Burton



Postop considerations



- Transfer
- ERAS
 - Mobilisation
 - IVI management
 - Feeding
 - Chest physio + incentive spirometer
 - DVT prophylaxis
 - Pain management
 - Order set blood tests & medications









- The prevalence of obesity continues to rise with 60% of the adult population in the European Union reported as overweight or obese.
- Obesity-related comorbidities are often common
- Holistic MDT approach is key to success
- ERAS protocol is essential part of any successful outcome
- Laparoscopic surgery, pneumoperitoneum & port placement approach – versatility
- BMS may be utilised as a safe model for excellent outcomes

