#### **Extended Abstract**

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# **Management of Acute Bleeding Post Laparoscopic Sleeve Gastrectomy**

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Introduction: Bariatric procedures are widely spreading nowadays, laparoscopic sleeve gastrectomy is one of the most commonly performed Bariatric operations, postoperative bleeding is being a serious and a common event of this operation. Materials and methods: A retrospective analysis was performed for 80 out of 1500 patients, who underwent laparoscopic sleeve gastrectomy (LSG) in the period between March 2015 and August 2017. The rate of hemorrhagic complications was 5.3%, the mean age was 38.5 ( $\pm$  8.718349), and the mean BMI was 40 ( $\pm$ 3.780856) Results: Source of bleeding was mostly intraabdominal of which 95% of 76 patients, while intraluminal bleeding represented only 5% of 4 patients. While in the intra-abdominal bleeding, 54 were there which had bleeding from the staple line, in 8 cases the bleeding was from the omentum, while 4 bled from the gastropancreatic adhesions, 4 bled from short gastric vessels, and in 6 patients the bleeding was from the trocar entry site. Conclusion: Early re-laparoscopy after post-LSG bleeding is diagnostic and therapeutic, and decreases both morbidity and mortality of patients

Postsurgical complications aier sleeve gastrectomy can be divided into early and delayed. Hemorrhage is considered to be one of the most common early complications aier sleeve gastrectomy [1]. Possible causes include lengthy staple line and the change in intra-gastric pressure. Another important risk factor for increased postoperative bleeding is preoperative low molecular weight heparins used for prevention of venous thromboembolism [2-4]. Chronic bleeding in LSG however is very uncommon and related to ulcers that may develop within the remnant stomach. Incidence of hemorrhage post LSG has been reported in 1.1-8.7% of cases [5]. Postoperative bleeding can be cOassLfied based on bleeding site into intraluminal bleeding (ILB) into the gastrointestinal tract or intra-abdominal bleeding (IAB) into the abdominal cavity [6-8].Intraluminal bleeding from the staple line usually presents with an upper gastrointestinal bleed

hematemesis or later on melena stools, in addition to tachycardia and hypotension. Management intraluminal bleeding was conservative [9]. abdominal hemorrhage presents in the abdominal cavity and early indication of intra-abdominal bleeding will be through the abdominal drain [10]. Intra-abdominal bleeding usually presents with a serial drop in serum hemoglobin levels and/or signs of tachycardia or hypotension. Common sources for intra-abdominal bleeding include the gastric staple line, spleen, liver or abdominal wall at the sites of trocar entry [11,9]. An increased risk of hematoma developing and abscess formation is found as a result. Early bleeding through drains or NG tube is called a sentinel bleed and it usually can occur within hours of surgery [12-15].

HLs is a retrospective analysis of 1500 morbidly obese patients who were collected from General Surgery Department at Ain Shams university hospitals (El-Demerdash hospital) > @ He patients underwent laparoscopic sleeve gastrectomy (LSG) in the period between march 2015 till August 2017. An aggregate of 80 patients out of the 1500 presented by post LSG bleeding within the first 6 hours. According to the clinical presentation, bleeding was cOassLfied into 2 groups: Group I: Intra-abdominal: this comprised 76 patients out of the 80. Hey presented with tachycardia (>100 b/m), hypotension (100 cc/hr), and abdominal pain [17,18]. While 6 out of the 38 patients bled from the trocar insertion site. Group II: Intra-luminal bleeding: 4 patients out of the 80 patients presented with hematemesis and melena in addition to tachycardia and hypotension. In these cases we initiated fluLd resuscitation, performed laboratory tests (CBC and coagulation profiOe

and also pelvi-abdominal ultrasound examination if feasible [19]. Patients with poor response to fluLd resuscitation were returned to operating room (OR) for urgent Re-laparoscopy to identify the source of bleeding.



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Post-operative bleeding is certainly the most common and early complication. Usually it occurs during the first or second postoperative day. It was found that the most common and major early complication is certainly the post-operative bleeding, which can occur in up to 16% of patients, with reported average of 3.6% [22]. We found that our early intervention has decreased the hospital stay, decreased the risk of infection, decreased risk of blood transfusion, and speeded up the patient recovery and normal lifestyle comeback. He age range was between 24-55 years with mean 41.2, this was agreed by Michael who found the same mean age. Our results also found that the female gender was more than the male gender, and that mean BMI>41 kg/m2 where it was 47.3 kg/m2.

In our study the incidence of post-operative bleeding was 5.2% while it was found that the incidence of hemorrhage post-LSG has been reported in 1.1-8.7% of cases [6]. It was reported that the incidence ranged between 0 and 4.4% [1].

Another incidence was found that hemorrhagic complications (HC) aier LSG is up to 4.94%. Later it was found that the risk of post-operative bleeding has been reported to be between1 and 6% aier LSG [13].

In our study 80 patients out of the 1500 presented by post LSG acute bleeding within the first 6 hours. It was found that the postsurgical complications aier sleeve gastrectomy can be divided into acute and chronic [23]. It was found that acute or early post-operative bleeding usually occur within 12-48 hours aier surgical procedure [1]

It was found that acute or early post-operative bleeding usually occur within 12-48 hours aier surgical procedure [1]. It was showed that late and chronic bleeding will usually present more than 42 days aier the procedure.

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