

The Safety And Efficacy Of Clipping The Stapler Line In Patients Undergoing Laparoscopic Sleeve Gastrectomy

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Introduction

- ❖ Obesity is a worldwide health problem.
 - o In Saudi Arabia, 35.4% of the population have BMI > 30.
- ❖ It is a risk factor for many diseases including hypertension, coronary heart diseases, diabetes mellitus type 2 and metabolic syndrome.

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Conclusion

- ❖ There is no significant difference in laparoscopic sleeve gastrectomy post-operative complications including leak and bleeding in cases of reinforcement of stapler line with clipping and non-clipping groups.

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Background

- ❖ Staple line leak is around 5%
- ❖ Bleeding happens from 1-6% of the patients
- ❖ Such complications lead to significant poor outcomes ranging from prolonged hospital stay to the need for total gastrectomy in extreme cases.
- ❖ Death occurs in 0.3%

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Result

Table 4: comparison between clipping and non-clipping groups regarding post-operative bleeding and leakage:

Variables	group	χ ²	df	P value
Bleeding	Non-clipping	.000	1	1.00
	clipping			
Leakage	Non-clipping	.973	1	.324
	clipping			

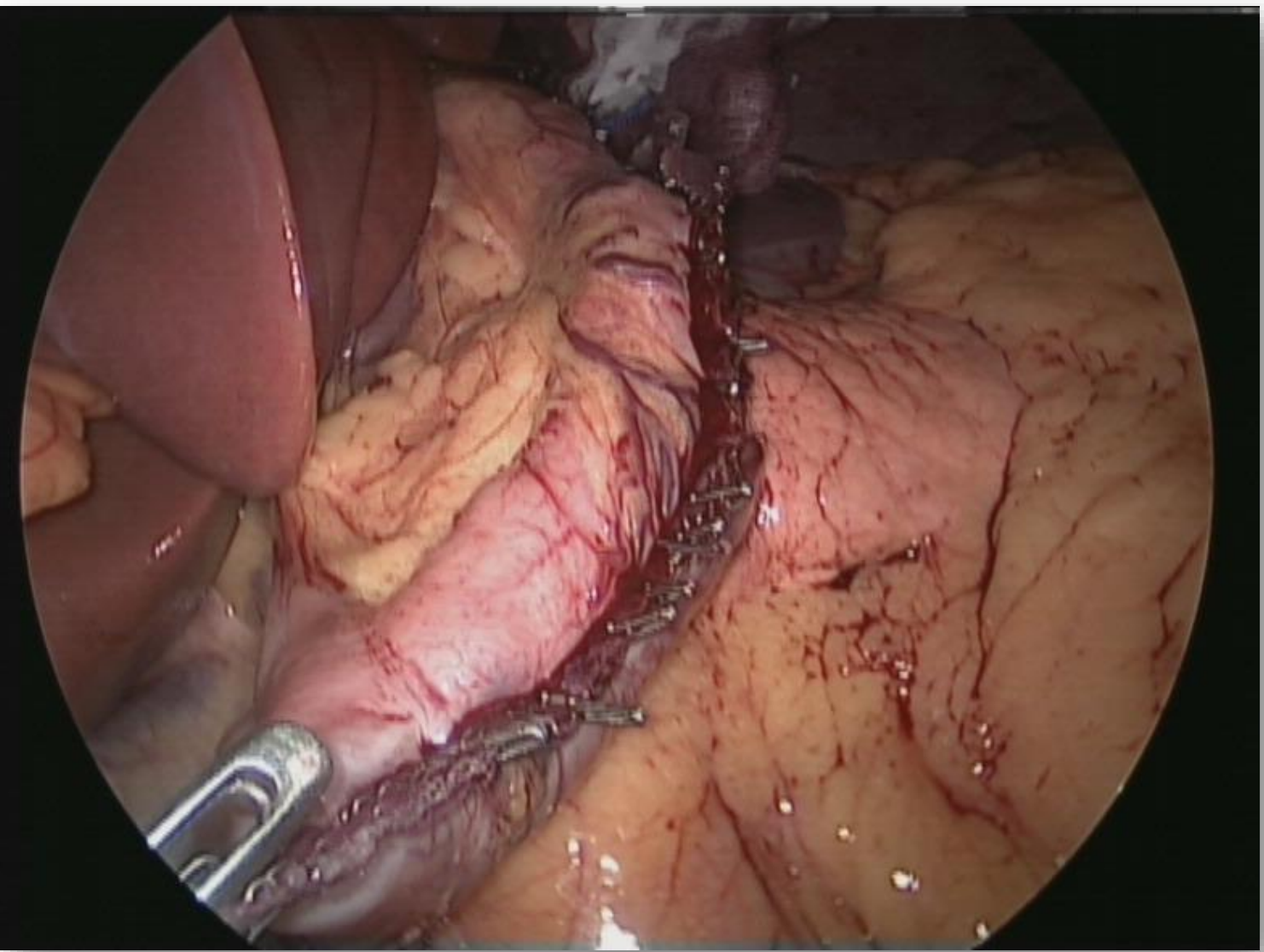
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Research Objective

- ❖ To determine the safety and efficacy of clipping the stapler line in patients undergoing Laparoscopic Sleeve Gastrectomy (LSG).

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Intra-operative image



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Research Methods

- ❖ Retrospective cohort study
- ❖ Involved all patients who were undergoing LSG at KKUH under the care of Prof.Abdullah Aldohayan from July 2015 till May 2018.
- ❖ Total of 146 patients
- ❖ Clipping group: 72 patients
- ❖ Non-clipping group: 74 patients

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Surgical technique

- ❖ In the clipping group: we used stapler followed by staple-line reinforcement by clips.
- ❖ In the non-clipping group: we used the stapler only with no reinforcement method.
- ❖ 100 cc of methylene blue was pushed in the stomach via the bougie to check for leaks of the stapler line