

AB021. OP21 Obesity and appendicitis: laparoscopy vs. open technique

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Background: The clinical results of obese patients who have undergone open or laparoscopic appendectomy, whether one technique is superior to the other is still not clearly known. In our study, we compared the clinical results of obese patients operated with laparoscopic or open technique for acute appendicitis.

Methods: We performed retrospective analyses of patients operated for acute appendicitis between the dates of July 2016 and July 2019 at İstinye University Faculty of Medicine Bahçeşehir Liv Training and Research Hospital and Liv Hospital Ankara. Of 241 patients whose height and weight information were accessible, 57 had a BMI of 30 kg/m² or higher. Eighteen of these patients underwent open surgery while the other 39 underwent laparoscopic surgery. The primary result criterion was complication ratio. The secondary criteria were operation time and length of hospital stay.

Results: Upon comparison of laparoscopic and open techniques in terms of intraoperative-postoperative complications, operation time and length of hospital stay; statistically significant differences were found between the groups.

Conclusions: In obese appendicitis patients, the laparoscopic technique proved to be superior to the open

technique in criteria such as perioperative-postoperative complications and operation time etc. The length of hospital stay was determined to be similar between the groups.

Keywords: Appendicitis, obesity; body mass index (BMI); laparoscopic appendectomy; obese versus non-obese; open appendectomy

Provenance and Peer Review: This abstract is included in “Abstracts from the 3rd Turkish National Congress on Bariatric and Metabolic Surgery, 21st-24th November 2019, Antalya-Turkey”, which is commissioned by the editorial office for the series “Bariatric and Metabolic Surgery” published in *Annals of Laparoscopic and Endoscopic Surgery*. This abstract did not undergo external peer review.

Conflicts of Interest: The authors have completed the ICMJE uniform disclosure form (available at <http://dx.doi.org/10.21037/ales-2019-bms-32>). The series “Bariatric and Metabolic Surgery” was commissioned by the editorial office without any funding or sponsorship. MMÖ served as the unpaid Guest Editor of the series, and serves as an unpaid editorial board member of *Annals of Laparoscopic and Endoscopic Surgery* from Mar 2019 to Feb 2021. The authors have no other conflicts of interest to declare.

Ethical Statement: The authors are accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

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doi: 10.21037/ales-2019-bms-32

Cite this abstract as: Özozan ÖV, GÜldoğan CE, Gündoğdu E, Özmen MM. Obesity and appendicitis: laparoscopy vs. open technique. *Ann Laparosc Endosc Surg* 2020;5:AB021.