

# 41. BÖLÜM

## LAPAROSKOPIK BARIATRİK CERRAHİ

Mümtaz ERAKIN<sup>1</sup>

### Giriş

Obezite, dünya çapında önemli bir halk sağlığı sorunudur. 1975 ile 2014 yılları arasında obezite prevalansının erkeklerde %3,2'den %10,8'e ve kadınlarda %6,4'ten %14,9'a yükseldiği ortaya konulmuştur (1). Türkiye'de ise 2012 yılında obez nüfus oranı %34,8 olarak bildirilmiş olup, bunun %2,9'u morbid obez kategorisinde yer almaktadır (2). Bariatrik cerrahi, obezite hastalarında dramatik ve kalıcı kilo kaybına neden olan etkili bir tedavi olarak onaylanmıştır (3). 1980'lerde laparoskopinin gelişimiyle birlikte, bariatrik cerrahi minimal invaziv tekniklerle yapılmaya başlandı.

Son zamanlarda artış gösterdiği bildirilen obezite cerrahisinde laparoskopik işlemler altın standart olarak kabul edilmekte ve bu işlemler uygun hasta gruplarında rutin bir şekilde kullanılmaktadır (4). Günümüz tıbbında laparoskopik bariatrik operasyonlar arasında; Roux-en-Y gastrik bypass, sleeve gastrektomi, ayarlanabilir mide bandı, Bilioenterik diversiyon ve Duodenal switch bulunur (şekil-1). Bu prosedürlerin büyük çoğunluğu artık laparoskopik teknik kullanılarak yapılabilmektedir. İlk laparoskopik Roux-en-Y gastrik bypass'ın (LRYGB) 1994 yılında bildirilmesinden bu yana, laparoskopik bariatrik cerrahi (LBC), daha

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**KAYNAKÇA**

1. Collaboration NCDRF. Trends in adult body-mass index in 200 countries from 1975 to 2014: a pooled analysis of 1698 population-based measurement studies with 19· 2 million participants. *Lancet*. 2016;387:1377–96.
2. Karadayı, B , Kockaya, G , Yenilmez.et al. (2016). THE ROLE OF OBESITY SURGERY IN OBESITY TREATMENT IN TURKEY . *Eurasian Journal of Health Technology Assessment* , 1 (1) , 20-62 .
3. Brolin RE. Bariatric surgery and long-term control of morbid obesity. *JAMA*. 2002;288:2793–6.
4. Buchwald H, Avidor Y, Braunwald E, et al. Bariatric surgery: a systemic review and meta-analysis. *JAMA*. 2004;292:1724–37. doi: 10.1001/jama.292.14.1724.
5. Nguyen NT, Goldman C, Rosenquist CJ, et al. Laparoscopic versus open gastric bypass: a randomized study of outcomes, quality of life, and costs. *Ann Surg*. 2001;234:279–91.
6. Angrisani L, Santonicola A, Iovino P, et al. Bariatric Surgery Worldwide 2013. *Obes Surg* 2015;25:1822-32.
7. NIH Conference. Gastrointestinal surgery for severe obesity. Consensus Development Conference Panel. *Ann. Intern. Med.* 115, 956–961 (1991).
8. Desogus D, Menon V, Singhal R, et al. O. An Examination of Who Is Eligible and Who Is Receiving Bariatric Surgery in England: Secondary Analysis of the Health Survey for England Dataset. *Obes Surg*. 2019 Oct;29(10):3246-3251.
9. Ostruszka P, Ilnát P, Tulinský L. et al. An alternative method of surgical treatment in refractory GERD following laparoscopic sleeve gastrectomy. *Rozhl Chir*. 2019 Spring;98(5):214-218.
10. Guzmán HM, Sepúlveda M, Rosso N, San Martín A, Guzmán F, Guzmán HC. Incidence and Risk Factors for Cholelithiasis After Bariatric Surgery. *Obes Surg*. 2019 Jul;29(7):2110-2114.
11. Angrisani L, Santonicola A, Iovino P, et al. Bariatric Surgery Worldwide 2013. *Obes Surg* 2015;25:1822-32.
12. Sjöström L. Review of the key results from the Swedish Obese Subjects (SOS) trial - a prospective controlled intervention study of bariatric surgery. *J Intern Med* 2013;273:219-34.
13. Puzifferri N, Roshek TB III, Mayo HG, et al. Long-term follow-up after bariatric surgery. *JAMA* 2014;312(9):934.
14. Eneghán HM, Yimcharoen P, Brethauer SA, et al. Influence of pouch and stoma size on weight loss after gastric bypass. *Surg Obes Relat Dis* 2012;8:408-15.
15. Lazzati A, Audureau E, Hemery F, et al. Reduction in early mortality outcomes after bariatric surgery in France between 2007 and 2012: a nationwide study of 133,000 obese patients. *Surgery* 2016;159(2):467–74.
16. Esteban Varela, J. & Nguyen, N. T. Laparoscopic sleeve gastrectomy leads the U. S. utilization of bariatric surgery at academic medical centers. *Surg. Obes. Relat. Dis.* 11, 987–990 (2015).
17. Marceau, P. et al. Biliopancreatic diversion with duodenal switch. *World J. Surg.* 22, 947–954 (1998).
18. Chang, S. H. et al. The effectiveness and risks of bariatric surgery: an updated systematic review and meta-analysis, 2003–2012. *JAMA Surg.* 149, 275–287 (2014).

19. Broadbent R, Tracey M, Harrington P. Laparoscopic Gastric Banding: a preliminary report. *Obes Surg* 1993;3:63-7.
20. Kindel, T., Martin, E., Hungness, E. & Nagle, A. High failure rate of the laparoscopic-adjustable gastric band as a primary bariatric procedure. *Surg. Obes. Relat. Dis.* 10, 1070–1075 (2014).
21. Buchwald H, Avidor P, Braunwald M, et al. Bariatric surgery review. *JAMA*. 2004; 292: 14.
22. Singhal R, Bryant C, Kitchen M, et al. Band slippage and erosion after laparoscopic gastric banding: a meta-analysis. *Surg Endosc* 2010;24:2980-6.
23. Tacchino RM. *Laparoscopic Biliopancreatic Diversion (BPD) Surgery*. Springer 2016; 437-45.
24. Buchwald H, Estok R, Fahrbach K, et al. Trends in mortality in bariatric surgery: a systematic review and meta-analysis. *Surgery*. 2007;142:621–32.
25. Mittermair RP, Obermüller S, Perathoner A, Sieb M, Aigner F, Margreiter R. Results and complications after Swedish adjustable gastric banding-10 years' experience. *Obes Surg*. 2009;19:1636–41. doi: 10.1007/s11695-009-9967-7.
26. Dumon KR, Murayama KM (2011) Bariatric surgery outcomes. *Surg Clin North Am* 91(6):1313–1338.
27. Hamdan K, Somers S, Chand M (2011) Management of late postoperative complications of bariatric surgery. *BJS* 98:1345–1355.
28. Heneghan HM, Meron-Eldar S, Yenumula P, Rogula T, Brethauer SA, Schauer PR (2012) Incidence and management of bleeding complications after gastric bypass surgery in the morbidly obese. *Surg Obes Relat Dis* 8(6):729–735, Epub 2011 Jun 2.
29. Srikanth MS, Keskey T, Fox SR. et al. (2004) Computed tomography patterns in small bowel obstruction after open distal gastric bypass. *Obes Surg* 14(6):811–822.
30. Smith SC, Edwards CB, Goodman GN, et al. (2004) Open vs laparoscopic Roux-en-Y gastric bypass: comparison of operative morbidity and mortality. *Obes Surg* 14(1):73–76.
31. Kiewiet RM, Durian MF, van Leersum M, et al. (2006) Gallstone formation after weight loss following gastric banding in morbidly obese Dutch patients. *Obes Surg* 16(5):592–596.
32. Shiffman ML, Sugerman HJ, Kellum JM. et al. (1991) Gallstone formation after rapid weight loss: a prospective study in patients undergoing gastric bypass surgery for treatment of morbid obesity. *Am J Gastroenterol* 86:1000–1005.
33. Swartz DE, Mobley E, Felix EL (2009) Bile reflux after Roux-en-Y gastric bypass: an unrecognized cause of postoperative pain. *Surg Obes Relat Dis* 5(1):27–30.