

11. BÖLÜM

LAPAROSKOPİK KOLESİSTEKTOMİ

Sedat ÇARKIT¹

Giriş

Kolelitiazis; yaygın görülen ve maliyetli bir sağlık sorunudur. Kolesistektomi; genel cerrahi pratiğinde en sık yapılan elektif cerrahi operasyonların başında gelmektedir. Yapılan bu kolesistektomilerin de büyük çoğunluğu laparoskopik olarak gerçekleştirilmektedir.

Laparoskopik kolesistektomi ilk olarak 1985 yılında Muhe tarafından gerçekleştirilmiştir. Daha sonra aynı prosedür, bugün de kullanılan video-laparoskop kullanılarak 1987 yılında Mouret tarafından gerçekleştirilmiş ve Avrupa'dan tüm dünyaya yayılmıştır (1). Sonrasında; laparoskopik kolesistektomi semptomatik kolelitiazisi olan tüm hastalar için güvenli ve etkili bir tedavi prosedürü olarak kabul edilmiştir (2). Bu minimal invaziv yaklaşımın; açık kolesistektomiye kıyasla daha düşük genel morbidite, mortalite ve normal aktivitelere daha hızlı dönüş dahil olmak üzere faydaları iyi bilinmektedir (3).

Bu bölümde laparoskopik kolesistektomi; operatif stratejileri, tekniği, endikasyonları, kontrendikasyonları, komplikasyonlar ve minimal invaziv cerrahideki yeni teknolojilerle birlikte irdelenecektir.

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Kaynaklar

1. Miyasaka Y, Nakamura M, Wakabayashi G. Pioneers in laparoscopic hepato-biliary-pancreatic surgery. *Journal of Hepato-biliary-pancreatic Sciences*. 2018;25(1):109-11.
2. Consensus N. Conference. Gallstones and laparoscopic cholecystectomy. *Jama*. 1993;269(2):1018-24.
3. Glasgow RE, Mulvihill SJ. Treatment of gallstone disease. *Sleisenger & Fordtran's Gastrointestinal and Liver Disease 9th ed Philadelphia, Pa: Saunders Elsevier*. 2010(3).
4. Kune G. Gall stones in diverticula of the lower common bile duct. *Gut*. 1965;6(5):95.
5. Agur AM, Dalley AF. *Grant's atlas of anatomy: Lippincott Williams & Wilkins*; 2009.
6. Skandalakis JE, Colborn G, Weidman T, Foster Jr R, Kingsnorth A, Skandalakis L. Extrahepatic biliary tract and gallbladder. *Skandalakis' Surgical Anatomy: The Embryologic and Anatomic Basis of Modern Surgery Skandalakis JE (ed): Paschalidis Medical Publications Ltd, Athens*. 2004:1122-6.
7. Shukla PJ, Barreto SG, Kulkarni A, Nagarajan G, Fingerhut A. Vascular anomalies encountered during pancreatoduodenectomy: do they influence outcomes? *Annals of surgical oncology*. 2010;17(10):186-93.
8. Fendrick AM, Gleeson SP, Cabana MD, Schwartz JS. Asymptomatic gallstones revisited: is there a role for laparoscopic cholecystectomy? *Archives of Family Medicine*. 1993;2(9):959.
9. Ahmad G, Baker J, Finnerty J, Phillips K, Watson A. Laparoscopic entry techniques. *Cochrane Database of Systematic Reviews*. 2019(11).
10. Strasberg SM, Hertl M, Soper NJ. An analysis of the problem of biliary injury during laparoscopic cholecystectomy. *Journal of the American College of Surgeons*. 1995;180(12):101-25.
11. Strasberg SM, Brunt LM. Rationale and use of the critical view of safety in laparoscopic cholecystectomy. *Journal of the American College of Surgeons*. 2010;211(1):132-8.
12. Sun S, Yang K, Gao M, He X, Tian J, Ma B. Three-port versus four-port laparoscopic cholecystectomy: meta-analysis of randomized clinical trials. *World journal of surgery*. 2009;33(14):1904-8.
13. Trichak S. Three-port vs standard four-port laparoscopic cholecystectomy. *Surgical Endoscopy and Other Interventional Techniques*. 2003;17(15):1434-6.
14. Kumar M, Agrawal CS, Gupta RK. Three-port versus standard four-port laparoscopic cholecystectomy: a randomized controlled clinical trial in a community-based teaching hospital in eastern Nepal. *JSL: Journal of the Society of Laparoendoscopic Surgeons*. 2007;11(16):358.
15. Vettoretto N, Feroci F, Perna F, Vadalà S, Virzi C. *New Technologies. Laparoscopic Cholecystectomy*. 19: Springer; 2014. p. 103-15.
16. Vettoretto N, Feroci F, Perna F, Vadalà S, Virzi C. *New Technologies. Laparoscopic Cholecystectomy: Springer*; 2014. p. 103-15.
17. Solomon D, Bell RL, Duffy AJ, Roberts KE. Single-port cholecystectomy: small scar, short learning curve. *Surgical endoscopy*. 2010;24(12):2954-7.

18. Bencsath KP, Falk G, Morris-Stiff G, Kroh M, Walsh RM, Chalikonda S. Single-incision laparoscopic cholecystectomy: do patients care? *Journal of Gastrointestinal Surgery*. 2012;16(3):535-9.
19. Joseph M, Phillips MR, Farrell TM, Rupp CC. Single incision laparoscopic cholecystectomy is associated with a higher bile duct injury rate: a review and a word of caution. *Annals of surgery*. 2012;256(1):1-6.
20. Jayaraman S, Davies W, Schlachta CM. Getting started with robotics in general surgery with cholecystectomy: the Canadian experience. *Canadian journal of Surgery*. 2009;52(5):374.
21. Gurusamy KS, Samraj K, Fusai G, Davidson BR. Robot assistant versus human or another robot assistant in patients undergoing laparoscopic cholecystectomy. *Cochrane database of systematic reviews*. 2012(9).
22. Spinoglio G, Lenti LM, Maglione V, Lucido FS, Priora F, Bianchi PP, et al. Single-site robotic cholecystectomy (SSRC) versus single-incision laparoscopic cholecystectomy (SILC): comparison of learning curves. First European experience. *Surgical endoscopy*. 2012;26(6):1648-55.
23. Svoboda S, Qaqish TR, Wilson A, Park H, Youssef Y. Robotic single-site cholecystectomy in the obese: outcomes from a single institution. *Surgery for Obesity and Related Diseases*. 2015;11(4):882-5.
24. Scott L. Gallstone disease and pancreatitis in pregnancy. *Gastroenterology Clinics of North America*. 1992;21(4):803-15.
25. Jelin EB, Smink DS, Vernon AH, Brooks DC. Management of biliary tract disease during pregnancy: a decision analysis. *Surgical endoscopy*. 2008;22(1):54-60.
26. Silecchia G, Serventi F, Cillara N, Fiume S, Luridiana G. Indications to Laparoscopic Cholecystectomy. *Laparoscopic Cholecystectomy*: Springer; 2014. p. 23-44.
27. Surgeons SoAGE. Guidelines for laparoscopic surgery during pregnancy. *Surgical Endoscopy*. 1998;12:189-90.
28. Kort B, Katz V, Watson W. The effect of nonobstetric operation during pregnancy. *Surgery, gynecology & obstetrics*. 1993;177(4):371-6.
29. Jackson H, Granger S, Price R, Rollins M, Earle D, Richardson W, et al. Diagnosis and laparoscopic treatment of surgical diseases during pregnancy: an evidence-based review. *Surgical endoscopy*. 2008;22(9):1917-27.
30. Neugebauer E, Troidl H, Kum C, Eypasch E, Miserez M, Paul A. The EAES Consensus Development Conferences on laparoscopic cholecystectomy, appendectomy, and hernia repair. *Surgical endoscopy*. 1995;9(5):550-63.
31. Agresta F, Campanile FC, Vettoretto N, Silecchia G, Bergamini C, Maida P, et al. Laparoscopic cholecystectomy: consensus conference-based guidelines. *Langenbeck's archives of surgery*. 2015;400(4):429-53.
32. Chandio A, Timmons S, Majeed A, Twomey A, Aftab F. Factors influencing the successful completion of laparoscopic cholecystectomy. *JSLs: Journal of the Society of Laparoendoscopic Surgeons*. 2009;13(4):581.
33. Rosen M, Brody F, Ponsky J. Predictive factors for conversion of laparoscopic cholecystectomy. *The American journal of surgery*. 2002;184(3):254-8.
34. Cates J, Tompkins R, Zinner M, Busuttill R, Kallman C, Roslyn J. Biliary complications of laparoscopic cholecystectomy. *The American surgeon*. 1993;59(4):243-7.

35. Landman MP, Feurer ID, Moore DE, Zaydfudim V, Pinson CW. The long-term effect of bile duct injuries on health-related quality of life: a meta-analysis. *HPB (Oxford)*. 2013;15(4):252-9.
36. Flum DR, Dellinger EP, Cheadle A, Chan L, Koepsell T. Intraoperative cholangiography and risk of common bile duct injury during cholecystectomy. *Jama*. 2003;289(13):1639-44.
37. Chapman WC, Abecassis M, Jarnagin W, Mulvihill S, Strasberg SM. Bile duct injuries 12 years after the introduction of laparoscopic cholecystectomy. *J Gastrointest Surg*. 2003;7(3):412-6.
38. Strasberg SM, Brunt LM. Rationale and use of the critical view of safety in laparoscopic cholecystectomy. *J Am Coll Surg*. 2010;211(1):132-8.
39. Adams DB, Borowicz MR, Wootton FT, 3rd, Cunningham JT. Bile duct complications after laparoscopic cholecystectomy. *Surg Endosc*. 1993;7(2):79-83.
40. Perera MT, Silva MA, Hegab B, Muralidharan V, Bramhall SR, Mayer AD, et al. Specialist early and immediate repair of post-laparoscopic cholecystectomy bile duct injuries is associated with an improved long-term outcome. *Ann Surg*. 2011;253(3):553-60.
41. Strasberg SM, Helton WS. An analytical review of vasculobiliary injury in laparoscopic and open cholecystectomy. *HPB (Oxford)*. 2011;13(1):1-14.
42. Strasberg SM, Hertl M, Soper NJ. An analysis of the problem of biliary injury during laparoscopic cholecystectomy. *J Am Coll Surg*. 1995;180(1):101-25.
43. Jones DB, Dunnegan DL, Soper NJ. The influence of intraoperative gallbladder perforation on long-term outcome after laparoscopic cholecystectomy. *Surg Endosc*. 1995;9(9):977-80.