

## 20. BÖLÜM

### LAPAROSKOPIK SPLENEKTOMİ

Gizem FIRTINA<sup>1</sup>  
Özkan SUBAŞI<sup>2</sup>

#### Giriş

Delaitre tarafından teknik olarak tanımlandığı 1991'den beri, laparoskopik yaklaşım çoğu elektif vaka için standart teknik halini almıştır (1). Cerrahlar arasında öğrenme eğrileri tamamlandıkça, laparoskopik splenektomi masif splenomegalisi olan hastalarda dahi güvenli bir şekilde uygulanabilmektedir (2).

#### Anatomi

Dalak, midenin fundusu ile diyafragma arasında, karın boşluğunun sol üst kadranda posterolateral olarak yer alan solid bir organdır. Medialinde mide ve pankreasın kuyruğu, önünde kolonun splenik fleksurası, arkasında da sol adrenal bez ve sol böbreğin üst kutbu vardır. Yandan ve önden 9-11 kotların koruması altındadır. Dalak bu konumunda gastrosplenik, splenofrenik, splenorenal ve splenokolik ligamentlerle kısmen sabit durumdadır. Bu bağların en önemlileri, gastrosplenik ve splenorenal ligamentlerdir.

Kollajen, elastin ve düz kastan oluşan lifli bir kapsülle çevrilidir. Dalak, kapsüllü mikroorganizmaların opsonizasyonu için önemlidir.

<sup>1</sup> Genel Cerrahi Uzman Hekim, Arvin Borçka Devlet Hastanesi, gizemfirtina@gmail.com

<sup>2</sup> Gastroenterolojik Cerrahi Yandal Uzmanı, SBÜ Kocaeli Derince Eğitim ve Araştırma Hastanesi, osubasi25@hotmail.com

rahi sonrası yaşam kalitesi hakkındaki raporda; laparoskopik cerrahinin genel sağlık, fiziksel işlev ve vücut ağrısında daha hızlı iyileşmeye yol açmaktadır(34).

## Kaynakça

1. Delaitre, B., B. Maignien, and P. H. Icard. "Laparoscopic splenectomy." *British journal of surgery* 79.12 (1992): 1334-1334.
2. Bo, Wang, et al. "Laparoscopy splenectomy for massive splenomegaly." *Journal of Investigative Surgery* 26.3 (2013): 154-157.
3. Habermalz, B., et al. "Laparoscopic splenectomy: the clinical practice guidelines of the European Association for Endoscopic Surgery (EAES)." *Surgical endoscopy* 22.4 (2008): 821-848.
4. Knauer, Eric M., et al. "101 laparoscopic splenectomies for the treatment of benign and malignant hematologic disorders." *The American journal of surgery* 186.5 (2003): 500-504.
5. Katkhouda, N., et al. "Predictors of response after laparoscopic splenectomy for immune thrombocytopenic purpura." *Surgical endoscopy* 15.5 (2001): 484-488.
6. Yano, Hiroshi, et al. "Hand-assisted laparoscopic splenectomy for splenic vascular tumors: report of two cases." *Surgical Laparoscopy Endoscopy & Percutaneous Techniques* 13.4 (2003): 286-289.
7. Uranues, S., et al. "Laparoscopic partial splenectomy." *Surgical endoscopy* 21.1 (2007): 57-60.
8. De Melo, V. A., et al. "Splenic cyst. Review of the literature and report of 2 cases." *Revista do Hospital das Clinicas* 50.5 (1995): 289-293.
9. Mertens, Jozef, et al. "Long-term outcome after surgical treatment of nonparasitic splenic cysts." *Surgical endoscopy* 21.2 (2007): 206-208.
10. Macheras, A., et al. "Non-parasitic splenic cysts: a report of three cases." *World journal of gastroenterology* 11.43 (2005): 6884.
11. Madoff, David C., et al. "Splenic arterial interventions: anatomy, indications, technical considerations, and potential complications." *Radiographics* 25.suppl\_1 (2005): S191-S211.
12. Hammerquist, Rhonda J., et al. "Vaccinations in asplenic adults." *American Journal of Health-System Pharmacy* 73.9 (2016): e220-e228.
13. Kercher, Kent W., et al. "Laparoscopic splenectomy for massive splenomegaly." *The American journal of surgery* 183.2 (2002): 192-196.
14. Brennan, Peter, Susan Standring, and Sam Wiseman, eds. *Gray's Surgical Anatomy E-Book*. Elsevier Health Sciences, 2019.
15. Grah SW, Alvarez J III, Kirkwood K (2006) Trends in laparoscopic splenectomy for massive splenomegaly. *Arch Surg* 141:755–762.
16. Ohta, Masayuki, et al. "Analysis of risk factors for massive intraoperative bleeding during laparoscopic splenectomy." *Journal of hepato-biliary-pancreatic surgery* 12.6 (2005): 433-437.
17. Cobb, W. S., et al. "Cirrhosis is not a contraindication to laparoscopic surgery." *Surgical Endoscopy and Other Interventional Techniques* 19.3 (2005): 418-423.
18. Weiss CA III, Kavic SM, Adrales GL, Park AE (2005) Laparoscopic splenectomy: what barriers remain? *Surg Innov* 12:23– 29.

19. Delaitre, Bernard, et al. "Laparoscopic splenectomy for idiopathic thrombocytopenic purpura." *Surgical Laparoscopy Endoscopy & Percutaneous Techniques* 12.6 (2002): 412-419.
20. Park, Adrian E., et al. "Laparoscopic splenectomy: outcomes and lessons learned from over 200 cases." *Surgery* 128.4 (2000): 660-667.
21. Keidar, Andrei, Boaz Sagi, and Amir Szold. "Laparoscopic splenectomy for immune thrombocytopenic purpura in patients with severe refractory thrombocytopenia." *Pathophysiology of haemostasis and thrombosis* 33.2 (2003): 116-119.
22. Serji, B., et al. "Minimally Invasive Surgery for Idiopathic Thrombocytopenic Purpura: Study of 28 cases." *Journal of Medical and Surgical Research* 1 (2014): 11-13.
23. Baddeley, P. G., et al. "Guidelines for the prevention and treatment of infection in patients with an absent or dysfunctional spleen." *British Medical Journal (BMJ)* 312.7028 (1996): 430-434.
24. Kakkos, Stavros K., et al. "Combined intermittent pneumatic leg compression and pharmacological prophylaxis for prevention of venous thromboembolism." *Cochrane Database of Systematic Reviews* 9 (2016).
25. Poulin, E. C., C. Thibault, and J. Mamazza. "Laparoscopic splenectomy." *Surgical endoscopy* 9.2 (1995): 172-177.
26. Konstadoulakis, Manousos M., et al. "Laparoscopic versus open splenectomy in patients with beta thalassemia major." *Journal of laparoendoscopic & advanced surgical techniques* 16.1 (2006): 5-8.
27. Trias, M., E. M. Targarona, and C. Balague. "Laparoscopic splenectomy: an evolving technique." *Surgical endoscopy* 10.4 (1996): 389-392.
28. Delaitre, B., et al. "Laparoscopic splenectomy. The "hanging spleen technique" in a series of nineteen cases." *Annales de chirurgie*. Vol. 49. No. 6. 1995.
29. Romano, F., et al. "Laparoscopic splenectomy using ligasure." *Surgical endoscopy* 16.11 (2002): 1608-1611.
30. Casaccia, Marco, et al. "The Italian Registry of Laparoscopic Surgery of the Spleen (IRLSS) A retrospective review of 379 patients undergoing laparoscopic splenectomy." *Chirurgia italiana* 58.6 (2006): 697-707.
31. Donini, A., et al. "Laparoscopic vs open splenectomy in the management of hematologic diseases." *Surgical endoscopy* 13.12 (1999): 1220-1225.
32. Phillips, Edward H., J. E. Korman, and R. Friedman. "Laparoscopic splenectomy." *Surgical Diseases of the Spleen*. Springer, Berlin, Heidelberg, 1997. 211-232.
33. Cordera, Fernando, et al. "Open versus laparoscopic splenectomy for idiopathic thrombocytopenic purpura: clinical and economic analysis." *Surgery* 134.1 (2003): 45-52.
34. Velanovich, Vic. "Laparoscopic vs open surgery." *Surgical endoscopy* 14.1 (2000): 16-21.
35. Sampath S, Meneghetti AT, MacFarlane JK, Nguyen NH, Benny WB, Panton ON (2007) An 18-year review of open and laparoscopic splenectomy for idiopathic thrombocytopenic purpura. *Am J Surg* 193:580–584.
36. Maartense, S., et al. "Hand-assisted laparoscopic surgery (HALS): a report of 150 procedures." *Surgical Endoscopy And Other Interventional Techniques* 18.3 (2004): 397-401.