

## Bölüm 33

# KRONİK PANKREATİT TEDAVİSİNDE CERRAHİ SEÇENEKLER

**Kıvanç Derya PEKER<sup>41</sup>**

**Kemal DOLAY<sup>42</sup>**

### GİRİŞ

Cerrahi tedavi kronik pankreatit (KP) ağrı palyasyonu için son çare olarak düşünülse de, ilerlemiş KP olgularında medikal ve endoskopik tedaviler sıklıkla semptomların hafiflemesinde yetersiz kalır. Tüm KP hastaların%50'ye yakın kısmı hastalıkları sırasında özellikle ağrı palyasyonu için cerrahi müdahale gerektirecektir. (1)

Kronik pankreatit tedavisine yönelik operasyonel yaklaşımlar, KP patofizyolojik gelişiminin iyi anlaşılması ile ilerleme kaydetmiştir. Uygun hasta seçimi ise cerrahinin kronik pankreatit tedavisinde faydasının artmasına katkıda bulunmuştur. (2)

Bu bölümde, güncel algoritmalar ve klavuzlar eşliğinde KP de cerrahi tedavinin ne zaman, nasıl ve hangi amaçla yapılacağına ışık tutmayı amaçlamaktayız.

### NE ZAMAN CERRAHİ DÜŞÜNELİM?

Cerrahi endikasyonlar hakkındaki fikir birliği şu şekilde ifade edilebilir (3,4):

- Karın ağrısının dayanılmaz hal aldığı durumlar
- Ciddi komplikasyonlar (safra kanalı tıkanıklıkları, portal ven trombozu ile birlikte olan portal hipertansiyon, nekrotik pankreas ve pankreas fistülü)
- Malignite şüphesi

<sup>41</sup> Gastroenteroloji Cerrahisi Doçenti, Tıbbi Biyoloji Doktoru, SBÜ İstanbul Bakırköy Dr. Sadi Konuk Eğitim ve Araştırma Hastanesi Genel Cerrahi Kliniği, [kivancderya.peker@saglik.gov.tr](mailto:kivancderya.peker@saglik.gov.tr)

<sup>42</sup> Genel Cerrahi Profesörü, Cerrahi Onkoloji Uzmanı, İstinye Üniversitesi Tıp Fakültesi Genel Cerrahi Anabilim Dalı, [dolayk@yahoo.com](mailto:dolayk@yahoo.com)

### ENDOSKOPİK TEDAVİ Mİ CERRAHİ TEDAVİ Mİ TERCİH EDİLMELİ?

Kronik pankreatit için cerrahi tedavinin amacı semptomları hafifletmek ve pankreatik parankimi mümkün olduğunca korumaktır. Ancak erken dönemde kronik pankreatitin destekleyici tedavisi egzokrin fonksiyonları düzeltmek için önemlidir. Endokrin yetmezliği ise besin takviyesi ile sağlanır. Hastalar bu başlangıçtaki destekleyici önlemlerin ötesinde ek tedaviye ihtiyaç duyduğunda, genellikle endoskopik tedavi için gastroenterologlara yönlendirilirler. Tipik olarak, proksimal pankreas kanalı darlığı olmayan ve enflamatuvar kitlesi olmayan veya pankreas psödokistleri olan hastalar ilk önce endoskopik tedavi için başarısız olabilirler ve sadece endoskopik tedavi başarısız olursa cerrahi değerlendirme için aday olabilirler. Bir yıldan sonra semptomların ve duktal tıkanmanın tedavisinde endoskopik girişimler başarısız olmuşsa veya lokal komplikasyonlar gelişirse, beslenme veya metabolik bozuklukların ortaya çıkmasından önce cerrahi müdahale düşünülmelidir. Duktal tıkanmadan kaynaklı pankreas parankim kaybı ilerleyici ve geri dönüşümsüzdür. Ayrıca inatçı pankreas ağrısı zamanla narkotik bağımlılığa neden olabilir. Bu nedenle, pankreas cerrahinin hastanın takibinde erken dönemden itibaren bulunması arzu edilir. Kronik pankreatit için ameliyatın başarısı, hastaların takipleri esnasında uygun zamanı tespit etmeye dayanır. (5)



- therapy of chronic pancreatitis (HaPanEU)." *United European gastroenterology journal* 5.2 (2017): 153-199.
11. Guidelines, N. (2018). Pancreatitis | Guidance and guidelines | NICE. [online] Nice.org.uk. Available at: <https://www.nice.org.uk/guidance/ng104>
  12. Dumonceau, Jean-Marc, et al. "Endoscopic treatment of chronic pancreatitis: European Society of Gastrointestinal Endoscopy (ESGE) Guideline—Updated August 2018." *Endoscopy* 51.02 (2019): 179-193.
  13. Drewes, Asbjørn M., et al. "Guidelines for the understanding and management of pain in chronic pancreatitis." *Pancreatology* 17.5 (2017): 720-731.
  14. Alexakis N, Connor S, Ghaneh P, et al. Influence of opioid use on surgical and long-term outcome after resection for chronic pancreatitis. *Surgery*. 2004;136:600–608.
  15. Yang CJ, Bliss LA, Freedman SD, Sheth S, et al. Surgery for chronic pancreatitis: the role of early surgery in pain management. *Pancreas*. 2015 Jul;44(5):819-23
  16. Prinz RA, Greenlee HB. Pancreatic duct drainage in chronic pancreatitis. *Hepatogastroenterology*. 1990;37:295–300.
  17. Duval Jr MK. Caudal pancreatico-jejunostomy for chronic relapsing pancreatitis. *Ann Surg*. 1954;140:775–85.
  18. Puestow CB, Gillesby WJ. Retrograde surgical drainage of pancreas for chronic relapsing pancreatitis. *AMA Arch Surg*. 1958;76:898–907.
  19. Partington PF, Rochelle RE. Modified Puestow procedure for retrograde drainage of the pancreatic duct. *Ann Surg*. 1960;152:1037–43.
  20. Bachmann K, Kutup A, Mann O, et al. Surgical treatment in chronic pancreatitis timing and type of procedure. *Best Pract Res Clin Gastroenterol*. 2010;24:299–310.
  21. Whipple AO. Radical surgery for certain cases of pancreatic fibrosis associated with calcareous deposits. *Ann Surg*. 1946;124:991–1006.
  22. Jimenez RE, Fernandez-Del Castillo C, Rattner DW, et al. Pylorus-preserving pancreaticoduodenectomy in the treatment of chronic pancreatitis. *World J Surg*. 2003;27:1211–6.
  23. Sakorafas GH, Farnell MB, Nagorney DM, et al. Pancreatoduodenectomy for chronic pancreatitis: long-term results in 105 patients. *Arch Surg*. 2000;135:517–24.
  24. Russell RC, Theis BA. Pancreatoduodenectomy in the treatment of chronic pancreatitis. *World J Surg*. 2003;27:1203–10.
  25. Traverso LW, Longmire Jr WP. Preservation of the pylorus in pancreaticoduodenectomy. *Surg Gynecol Obstet*. 1978;146:959–62.
  26. Hartel M, Tempia-Caliera AA, Wente MN, et al. Evidence-based surgery in chronic pancreatitis. *Langenbecks Arch Surg*. 2003;388:132–9.
  27. Friess H, Berberat PO, Wirtz M, et al. Surgical treatment and long-term follow-up in chronic pancreatitis. *Eur J Gastroenterol Hepatol*. 2002;14:971–7.
  28. Müller MW, Friess H, Beger HG, et al. Gastric emptying following pylorus-preserving Whipple and duodenum-preserving pancreatic head resection in patients with chronic pancreatitis. *Am J Surg*. 1997;173:257–63.
  29. Morrow CE, Cohen JI, Sutherland DE, et al. Chronic pancreatitis: long-term surgical results of pancreatic duct drainage, pancreatic resection, and near-total pancreatectomy and islet autotransplantation. *Surgery*. 1984;96:608–16.
  30. Williamson RC, Cooper MJ. Resection in chronic pancreatitis. *Br J Surg*. 1987;74:807–12.
  31. Guillemin P, Bessot M. Chronic calcifying pancreatitis in renal tuberculosis: pancreatojejunostomy using an original technic. *Mem Acad Chir (Paris)*. 1957;83:869–71.
  32. Bassi C. Middle segment pancreatectomy: a useful tool in the management of pancreatic neoplasms. *J Gastrointest Surg*. 2007;11:421–4.
  33. Warshaw AL, Rattner DW, Fernández-del Castillo C, et al. Middle segment pancreatectomy: a novel technique for conserving pancreatic tissue. *Arch Surg*. 1998;133:327–31.
  34. Roggin KK, Rudloff U, Blumgart LH, et al. Central pancreatectomy revisited. *J Gastrointest Surg*. 2006;10:804–12.
  35. Priestley JT, Comfort MW, Radcliffe Jr J. Total pancreatectomy for hyperinsulinism due to an islet-cell adenoma: survival and cure at sixteen months after operation: presentation of metabolic studies. *Ann Surg*. 1944;119:211–21.
  36. Bellin MD, Freeman ML, Schwarzenberg SJ, et al. Quality of life improves for pediatric patients after total pancreatectomy and islet autotransplant for chronic pancreatitis. *Clin Gastroenterol Hepatol*. 2011; 9: 793–9.
  37. Bellin MD, Beilman GJ, Sutherland DE, et al. How Durable Is Total Pancreatectomy and Intraportal Islet Cell Transplantation for Treatment of Chronic Pancreatitis? *J Am Coll Surg*. 2019 Jan; 228(4):S1072-7515(19)30016-X.
  38. Bachmann K, Kutup A, Mann O, et al. Surgical treatment in chronic pancreatitis timing and type of procedure. *Best Pract Res Clin Gastroenterol* 2010; 24: 299–310.
  39. Izbicki JR, Bloechle C, Broering DC, et al. Longitudinal V-shaped excision of the ventral pancreas for small duct disease in severe chronic pancreatitis: prospective evaluation of a new surgical procedure. *Ann Surg* 1998; 227: 213–9.
  40. Bachmann K, Mann O, Izbicki JR, et al. Chronic pancreatitis—a surgeons' view. *Med Sci Monit* 2008; 14: RA198–205.
  41. Izbicki JR, Bloechle C, Knoefel WT, et al. Complications of adjacent organs in chronic pancreatitis managed by duodenum-preserving resection of the head of the pancreas. *Br J Surg*. 1994;81:1351–5.
  42. Izbicki JR, Bloechle C, Knoefel WT, et al. Duodenum-preserving resection of the head of the pancreas in chronic pancreatitis: a prospective, randomized trial. *Ann Surg*. 1995;221:350–8.
  43. Frey CF, Amikura K. Local resection of the head of the pancreas combined with longitudinal pancreaticojejunostomy in the management of patients with chronic pancreatitis. *Ann Surg*. 1994;220:492–507.

44. Strobel O, Büchler MW, Werner J. Surgical therapy of chronic pancreatitis: indications, techniques and results. *Int J Surg*. 2009;7:305–12.
45. Izbicki JR, Bloechle C, Broering DC, et al. Extended drainage versus resection in surgery for chronic pancreatitis: a prospective randomized trial comparing the longitudinal pancreaticojejunostomy combined with local pancreatic head excision with the pylorus-preserving pancreatoduodenectomy. *Ann Surg*. 1998;228:771–9.
46. Strate T, Bachmann K, Busch P, et al. Resection vs drainage in treatment of chronic pancreatitis: long-term results of a randomized trial. *Gastroenterology*. 2008;134:1406–11.
47. Gloor B, Friess H, Uhl W, et al. A modified technique of the Beger and Frey procedure in patients with chronic pancreatitis. *Dig Surg*. 2001;18:21–5.
48. Farkas G, Leindler L, Daróczy M, et al. Organ-preserving pancreatic head resection in chronic pancreatitis. *Br J Surg*. 2003;90:29–32.
49. Muller MW, Friess H, Leitzbach S, et al. Perioperative and follow-up results after central pancreatic head resection (Berne technique) in a consecutive series of patients with chronic pancreatitis. *Am J Surg*. 2008;196:364–72.
50. Hatori T, Imaizumi T, Harada N, et al. Appraisal of the Imaizumi modification of the Beger procedure: the TWMU experience. *J Hepatobiliary Pancreat Sci*. 2010;17:752–7.
51. Izbicki JR, Bloechle C, Broering DC, et al. Longitudinal V-shaped excision of the ventral pancreas for small duct disease in severe chronic pancreatitis: prospective evaluation of a new surgical procedure. *Ann Surg*. 1998;227:213–9.
52. Kutup A, Vashist Y, Kaifi JT, et al. For which type of chronic pancreatitis is the “Hamburg procedure” indicated? *J Hepatobiliary Pancreat Sci*. 2010;17:758–62.
53. Bachmann K, Tomkoetter L, Kutup A, et al. Is the Whipple procedure harmful for long-term outcome in treatment of chronic pancreatitis? 15- Years follow-up comparing the outcome after pylorus-preserving pancreatoduodenectomy and Frey procedure in chronic pancreatitis. *AnnSurg* 2013; 258: 815–820; discussion 820–821.
54. Terrace JD, Paterson HM, Garden OJ, et al. Results of decompression surgery for pain in chronic pancreatitis. *HPB (Oxford)* 2007; 9: 308–311.
55. Farkas G, Leindler L, Daróczy M, et al. Prospective randomised comparison of organ-preserving pancreatic head resection with pylorus-preserving pancreaticoduodenectomy. *Langenbecks Arch Surg* 2006; 391: 338–342.
56. Muller MW, Friess H, Martin DJ, et al. Long-term follow-up of a randomized clinical trial comparing Beger with pylorus-preserving Whipple procedure for chronic pancreatitis. *Br J Surg* 2008; 95: 350–356.
57. Strate T, Bachmann K, Busch P, et al. Resection vs drainage in treatment of chronic pancreatitis: Long term results of a randomized trial. *Gastroenterology* 2008; 134: 1406–1411.
58. Keck T, Adam U, Makowiec F, et al. Short and long term results of duodenum preservation versus resection for the management of chronic pancreatitis: A prospective, randomized study. *Surgery* 2012; 152: S95–S102.
59. Bachmann K, Tomkoetter L, Erbes J, et al. Beger and Frey procedures for treatment of chronic pancreatitis: Comparison of outcomes at 16-year follow-up. *J Am-Coll Surg* 2014; 219: 208–216.
60. Koninger J, Seiler CM, Sauerland S, et al. Duodenum preserving pancreatic head resection: a randomized controlled trial comparing the original Beger procedure with the Berne modification (ISRCTN No. 50638764). *Surgery* 2008; 143: 490–498.
61. Gurusamy KS, Lusk C, Halkias C, et al. Duodenum-preserving pancreatic resection versus pancreaticoduodenectomy for chronic pancreatitis. *Cochrane Database Syst Rev*. 2016 Feb 3;2:CD011521.
62. Delcore R, Rodriguez FJ, Thomas JH, et al. The role of pancreaticojejunostomy in patients without dilated pancreatic ducts. *Am J Surg* 1994; 168: 598–601; discussion 602.
63. Paye F, Nicoluzzi E, Calicis B, et al. Role of remaining ductal cephalad obstruction on the results of lateral pancreaticojejunostomy in chronic pancreatitis. *Gastroenterol Clin Biol* 2001; 25: 755–760.
64. Ito T, Ishiguro H, Ohara H, et al. Evidence-based clinical practice guidelines for chronic pancreatitis 2015. *J Gastroenterol*. 2016 Feb;51(2):85-92.