

Bölüm 8

BENİGN NEDENLİ İNTESTİNAL DARLIKLARA BAĞLI BULANTI KUSMA

Mevlüt TEKİN⁹
Tuba ÖZKAN TEKİN¹⁰

GİRİŞ

Kusma: Gastrik içeriğin güçlü bir şekilde oral yoldan atılmasıdır. Bulantı ise kusma isteği veya kusma dürtüsü olarak tanımlanabilir.

Gastrointestinal sistemin darlığı, gastrointestinal sistemin birçok hastalığı ile ilişkili nadir olmayan bir komplikasyonudur. Darlık (Striktür); gastrointestinal yolağın belirli bir kısmında radyolojik olarak belirlenmiş lümenal daralma oluşması ve bu daralma nedeniyle obstrüktif semptomlar meydana gelmesi olarak tanımlanabilir. Benign intestinal darlıkların etyolojisi ve insidansı gastrointestinal yolun etkilenen bölgesine göre değişim göstermektedir.

Ön bağırsak (foregut)'ın benign darlıkları yaygın olarak görülmektedir ve orta (midgut) ve arka bağırsak (hindgut)'ın daha nadir darlıklarına göre yapısal olarak belirgin farklılık göstermektedir (1).

ETYOLOJİ

En sık görülen benign foregut darlığı özofagus darlığıdır (1). Benign özofagus darlıklarının büyük çoğunluğu gastroözofageal reflüye bağlıdır (2,3). Yaygın olarak kostik yaralanmalar (4), endoskopik özofageal skleroterapi (5) ve 'hap' özofajiti (sıklıkla doksisisiklin ve siprofloksasin) nedeniyle oluşmaktadır (1). Kostik yaralanmalar asit ve alkali temizlik maddelerinin evlerde bulundurulması nedeniyle sıklıkla küçük yaşlarda yanlılıkla meydana gelir (4). Daha az sıklıkla cerrahi anastomoz, radyasyon özofajit , tüberküloz, viral ve fungal özofajit, eozinofilik

⁹ Operatör Doktor, Avcılar Devlet Hastanesi, . mevlut.tekin@saglik.gov.tr

¹⁰ Uzman Doktor Cerrahpaşa Üniversitesi İç Hastalıkları, Hematoloji BD, t.ozkann@hotmail.com

Medikal tedavilerin başarısızlığı, endoskopik tedavilerin başarısız olması veya uygulanamayan durumlarda cerrahi rezeksiyonlar uygulanır (26). Cerrahi rezeksiyon sonrası anastomoz kaçağı, fistül, kısa bağırsak sendromu, anastomoz bölgesinde nüks gibi komplikasyonlar görülebilir (52). Bağırsak uzunluğunun korunması ve anastomoz kaçağı riskini azaltmak için striktüroplasti yaygın olarak kullanılmaktadır (53). Striktüroplasti aktif hastalıkta genellikle yapılabilir (54). Striktür ile ilişkili abse varlığı, perforasyon sonrası yaygın peritonit varlığı, malignite şüphesi olan striktürler de striktüroplasti uygulanmamalıdır (54).

Sık kullanılan cerrahi prosedürleri değerlendiren bir meta-analizde Heineke-Mikulicz tekniği daha düşük morbiditeye, ancak Finney prosedürüne göre daha yüksek nüks oranına sahipti (55).

Benign anastomoz darlıkları kolon veya rektum rezeksiyonu yapılan hastaların yaklaşık %22'sinde görülebilir (56). Anastomoz sonrası doku iskemisi, sütür hatında kanama, anastomoz kaçağı, radyoterapi anastomoz darlıklarından sorumlu tutulmaktadır (25). Darlık tedavisinde cerrahi rezeksiyon ve re-anastomoz yapılabilir. Basit, güvenilir ve etkili olması dolayısı ile endoskopik teknikler öncelikli tedavi yöntemi olmuştur (57). Buji dilatasyon, balon dilatasyon, elektrokoter insizyon kullanılan tedavi yöntemleridir (25).

SONUÇ

Benign intestinal darlıklar özefagustan anüse kadar tüm gastrointestinal kanalda pek çok farklı nedenle meydana gelebilir. Hastalar hekime darlığın neden olduğu bulantı ve kusma şikayetleri ile başvururlar. Bu noktada etyolojiden bağımsız birçok tedavi seçenekleri tercih edilmektedir. Ancak cerrahi işlemlerdeki yüksek mortalite ve morbidite hekimleri cerrahi dışı tedavi arayışına yöneltmiştir. Gelişen teknoloji ve klinik tecrübelerle uygun hastalara cerrahi dışı girişimler başarı ile uygulanabilir.

KAYNAKLAR

1. Anand AC, Kalra SP. Benign Strictures Of The Gastrointestinal Tract. *Med J Armed Forces India*. 1996 Oct;52(4):215-216. doi: 10.1016/S0377-1237(17)30868-7. Epub 2017 Jun 26.
2. Patterson DJ, Graham DY, Smith JL, et al. Natural history of benign esophageal stricture treated by dilatation. *Gastroenterology* 1983; 85:346.
3. Marks RD, Richter JE. Peptic strictures of the esophagus. *Am J Gastroenterol* 1993; 88:1160.
4. Loeb PM, Eistenstein AM. Caustic injury of the upper gastrointestinal tract. In: Sliesenger MH, Fordtran JS, editors. *Gastrointestinal disease*. WB Saunders; Philadelphia: 1993. pp. 293-301.
5. Sorensen T, Burcharth F, Pedersen ML, Findahl F. Esophageal stricture and dysphagia after endoscopic sclerotherapy for bleeding varices. *Gut*. 1984;25:473-475.

6. McDonald GB. Esophageal disease caused by infection, systemic illness, medication and trauma. In: Sliesenger MH, Fordtran JS, editors. *Gastrointestinal disease*. WB Saunders; Philadelphia: 1993. pp. 427–458. 5th ed. Vol 1.
7. Kim JH, Song HY, Kim HC, Shin JH, Kim KR, Park SW, et al. Corrosive esophageal strictures: long-term effectiveness of balloon dilation in 117 patients. *J Vasc Interv Radiol*. 2008;19:736–741.
8. Santos-Fernandez J, Paiji C, Shakhathreh M, et al. Lumen-apposing metal stents for benign gastrointestinal tract strictures: An international multicenter experience. *World J Gastrointest Endosc*. 2017 Dec 16;9(12):571–578. doi: 10.4253/wjge.v9.i12.571.
9. Bessissow T, Reinglas J, Aruljothy A, Lakatos PL, Van Assche G. Endoscopic management of Crohn's strictures. *World J Gastroenterol*. 2018 May 7;24(17):1859–1867. doi: 10.3748/wjg.v24.i17.1859.
10. Huber T. Non-steroidal anti-inflammatory drugs (NSAID) induced colonic strictures. *Gastroenterology*. 1991;100:119–122.
11. Bjarnason I, Price AB, Zaneai G, Smethurst P, Burke M, Gumpel JM, Levi AJ. Clinicopathological features of nonsteroidal anti-inflammatory drugs (NSAID) induced small intestinal strictures. *Gastroenterology*. 1988;94:1070–1074.
12. Earnest DL, Hixon LJ. Other disease of the colon and rectum. In: Sliesenger MH, Fordtran JS, editors. *Gastrointestinal disease*. WB Saunders; Philadelphia: 1993. pp. 1537–1570. 5th ed. Vol 1.
13. Ferlitsch A, Reinisch W, Püspök A, et al. Safety and efficacy of endoscopic balloon dilation for treatment of Crohn's disease strictures. *Endoscopy*. 2006;38:483–487. doi: 10.1055/s-2006-924999.
14. Park CH, Yoon JY, Park SJ, et al. Clinical efficacy of endoscopic treatment for benign colorectal stricture: balloon dilatation versus stenting. *Gut Liver*. 2015;9:73–79. doi: 10.5009/gnl13326.
15. Latella G, Rogler G, Bamias G, Breynaert C, Florholmen J, Pellino G, et al. Results of the 4th scientific workshop of the ECCO (I): pathophysiology of intestinal fibrosis in IBD. *Journal of Crohn's & colitis*. 2014;8(10):1147–65.
16. Rieder F, Fiocchi C, Rogler G. Mechanisms, Management, and Treatment of Fibrosis in Patients With Inflammatory Bowel Diseases. *Gastroenterology*. 2017;152(2):340–50 e6.
17. Giovanni Latella and Florian Rieder. Intestinal fibrosis: Ready to be Reversed. *Curr Opin Gastroenterol*. Author manuscript; available in PMC 2018 Jul 1.
18. Hazelgrove KB, Flynn RS, Qiao LY, Grider JR, Kuemmerle JF. Endogenous IGF-I and alpha v beta3 integrin ligands regulate increased smooth muscle growth in TNBS-induced colitis. *American journal of physiology*. 2009;296(6):G1230–7.
19. Flynn RS, Murthy KS, Grider JR, Kellum JM, Kuemmerle JF. Endogenous IGF-I and alphaVbeta3 integrin ligands regulate increased smooth muscle hyperplasia in stricturing Crohn's disease. *Gastroenterology*. 2010;138(1):285–93.
20. Li C, Vu K, Hazelgrove K, Kuemmerle JF. Increased IGF-IEc expression and mechano-growth factor production in intestinal muscle of fibrostenotic Crohn's disease and smooth muscle hypertrophy. *American journal of physiology*. 2015;309(11):G888–99.
21. Lawrance IC, Rogler G, Bamias G, Breynaert C, Florholmen J, Pellino G, et al. Cellular and Molecular Mediators of Intestinal Fibrosis. *Journal of Crohn's & colitis*. 2015
22. Nielsen OH. New strategies for treatment of inflammatory bowel disease. *Front Med (Lausanne)* 2014;1:3.
23. Sokol H, Seksik P, Cosnes J. Complications and surgery in the inflammatory bowel diseases biological era. *Curr Opin Gastroenterol*. 2014;30:378–384. doi: 10.1097/MOG.0000000000000078.
24. Hye Won Lee, Soo Jung Park, Seong Ran Jeon, et al. Long-Term Outcomes of Endoscopic Balloon Dilation for Benign Strictures in Patients with Inflammatory Bowel Disease. *Gut Liver*. 2018 Sep; 12(5): 530–536.
25. Deepanshu Jain, Naemat Sandhu, and Shashideep Singhal, Endoscopic electrocautery incision therapy for benign lower gastrointestinal tract anastomotic strictures. *Ann Gastroenterol*. 2017; 30(5): 473–485.

26. Florian Rieder, Ellen M Zimmermann, Feza H Remzi, et. al. Crohn's disease complicated by strictures: a systematic review. *Gut*. Author manuscript; available in PMC 2016 May 28.
27. Lew RJ, Kochman ML. A review of endoscopic methods of esophageal dilation. *J Clin Gastroenterol*. 2002;35:117-126.
28. Siersema PD, Hirdes MM. What is the optimal duration of stent placement for refractory, benign esophageal strictures? *Nat Clin Pract Gastroenterol Hepatol*. 2009;6:146-147.
29. Kim JH, Song HY, Choi EK, Kim KR, Shin JH, Lim JO. Temporary metallic stent placement in the treatment of refractory benign esophageal strictures: results and factors associated with outcome in 55 patients. *Eur Radiol*. 2009;19:384-390.
30. Scolapio JS, Pasha TM, Gostout CJ, et al. A randomized prospective study comparing rigid to balloon dilators for benign esophageal strictures and rings. *Gastrointest Endosc* 1999; 50:13.
31. Repici A, Hassan C, Sharma P, Conio M, Siersema P. Systematic review: the role of self-expanding plastic stents for benign oesophageal strictures. *Aliment Pharmacol Ther* 2010;31(12):1268-75.
32. Marks RD, Richter JE, Rizzo J, Koehler RE, Spenny JG, Mills TP, et al. Omeprazole versus H2-receptor antagonists in treating patients with peptic stricture and esophagitis. *Gastroenterology* 1994;106(4):907-15.
33. Ramage JI, Jr, Rumalla A, Baron TH, Pochron NL, Zinsmeister AR, Murray JA, et al. A prospective, randomized, double-blind, placebo-controlled trial of endoscopic steroid injection therapy for recalcitrant esophageal peptic strictures. *Am J Gastroenterol*. 2005;100:2419-2425.
34. Kochhar R, Makharia GK. Usefulness of intralesional triamcinolone in treatment of benign esophageal strictures. *Gastrointest Endosc*. 2002;56:829-834.
35. Altintas E, Kacar S, Tunc B, Sezgin O, Parlak E, Altiparmak E, et al. Intralesional steroid injection in benign esophageal strictures resistant to bougie dilation. *J Gastroenterol Hepatol*. 2004;19:1388-1391.
36. Evrard S, Le Moine O, Lazaraki G, Dormann A, El Nakadi I, Devière J. Self-expanding plastic stents for benign esophageal lesions. *Gastrointest Endosc*. 2004;60:894-900.
37. Dua KS, Vleggaar FP, Santharam R, Siersema PD. Removable self-expanding plastic esophageal stent as a continuous, non-permanent dilator in treating refractory benign esophageal strictures: a prospective two-center study. *Am J Gastroenterol*. 2008;103:2988-2994.
38. Hordijk ML, Siersema PD, Tilanus HW, Kuipers EJ. Electrocautery therapy for refractory anastomotic strictures of the esophagus. *Gastrointest Endosc*. 2006;63:157-163.
39. Schubert D, Kuhn R, Lippert H, Pross M. Endoscopic treatment of benign gastrointestinal anastomotic strictures using argon plasma coagulation in combination with diathermy. *Surg Endosc*. 2003;17:1579-1582.
40. Kochhar R, Sethy PK, Nagi B, Wig JD. Endoscopic balloon dilatation of benign gastric outlet obstruction. *J Gastroenterol Hepatol*. 2004;19:418-422.
41. Kozarek RA. Dilation therapy for gastric outlet obstruction. Are balloons a bust? *J Clin Gastroenterol* 1993;17(1):2-4.
42. Kelly SM, Hunter JO. Endoscopic balloon dilatation of duodenal strictures in Crohn's disease. *Postgrad Med J* 1995;71(840):623-4.
43. Kim JH, Song HY, Shin JH, Hu HT, Lee SK, Jung HY, et al. Metallic stent placement in the palliative treatment of malignant gastric outlet obstructions: primary gastric carcinoma versus pancreatic carcinoma. *AJR Am J Roentgenol*. 2009;193:241-247.
44. Kim JH, Song HY, Park SW, Yoon CJ, Shin JH, Yook JH, et al. Early symptomatic strictures after gastric surgery: palliation with balloon dilation and stent placement. *J Vasc Interv Radiol*. 2008;19:565-570.
45. Peyrin-Biroulet L, Oussalah A, Williet N, et al. Impact of azathioprine and tumour necrosis factor antagonists on the need for surgery in newly diagnosed Crohn's disease. *Gut*. 2011;60:930-6.
46. Yaffe BH, Korelitz BI. Prognosis for nonoperative management of small-bowel obstruction in Crohn's disease. *J Clin Gastroenterol*. 1983;5:211-15.

47. Brooker JC, Beckett CG, Saunders BP, et al. Long-acting steroid injection after endoscopic dilation of anastomotic Crohn's strictures may improve the outcome: a retrospective case series. *Endoscopy*. 2003;35:333-7.
48. Fukumoto A, Tanaka S, Yamamoto H, et al. Diagnosis and treatment of small-bowel stricture by double balloon endoscopy. *Gastrointest Endosc*. 2007;66:S108-12.
49. Levine RA, Wasvary H, Kadro O. Endoprosthetic management of refractory ileocolonic anastomotic strictures after resection for Crohn's disease: report of nine-year follow-up and review of the literature. *Inflamm Bowel Dis*. 2012;18:506-12.
50. Attar A, Maunoury V, Vahedi K, et al. Safety and efficacy of extractible self-expandable metal stents in the treatment of Crohn's disease intestinal strictures: a prospective pilot study. *Inflamm Bowel Dis*. 2012;18:1849-54.
51. Tharian B, Caddy G, Tham TC. Enteroscopy in small bowel Crohn's disease: A review. *World J Gastrointest Endosc*. 2013;5:476-486.
52. Alexander-Williams J, Haynes IG. Conservative operations for Crohn's disease of the small bowel. *World J Surg*. 1985;9:945-951. doi: 10.1007/BF01655400.
53. Alexander-Williams J. The technique of intestinal strictureplasty. *Int J Colorectal Dis*. 1986;1:54-7.
54. Roy P, Kumar D. Strictureplasty. *Br J Surg*. 2004;91:1428-37.
55. Tichansky D, Cagir B, Yoo E, et al. Strictureplasty for Crohn's disease: meta-analysis. *Dis Colon Rectum*. 2000;43:911-19.
56. Luchtefeld MA, Milsom JW, Senagore A, Surrell JA, Mazier WP. Colorectal anastomotic stenosis. Results of a survey of the ASCRS membership. *Dis Colon Rectum*. 1989;32:733-736.
57. Araujo SE, Furtado Costa A. Efficacy and safety of endoscopic balloon dilation of benign anastomotic strictures after oncologic anterior rectal resection. *Surg Laparosc Endosc Percutan Tech*. 2008;18:565-568.