

# **5. Bölüm**

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## **MALIGN İNTESTİNAL OBSTRÜKSİYONLAR**

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Kazım Şenol<sup>1</sup>

### **Tanım, İnsidans, Etyoloji ve Fizyopatoloji**

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Mide veya barsak içeriğinin gastrointestinal trakt içerisinde pasajının azalması veya ilerlemesinin durması intestinal obstrüksiyon ile sonuçlanmaktadır. Batın içi yerleşimli ileri evre bir tümöre veya batın dışı yerleşimli primer tümörün belirgin peritoneal tutulumuna bağlı Treitz ligamanının ilerisinde meydana gelen tikanıklık ise malign intestinal obstrüksiyon olarak tanımlanmaktadır (1). Malign intestinal obstrüksiyonlar batın içi ve pelvik tümörlerin ilk bulgusu ya da kanser tedavisi gören bir hastada rekürren hastalığın bulgusu olarak karşımıza çıkabilmektedir. Hastalığın her evresinde gelişebilmekle birlikte over kaynaklı tümörlerin yaklaşık %5 ile %42'sinde, kolorektal kaynaklı tümörlerin yaklaşık %4,4 ile %24'ünde ve mide kanserinde, sıklıkla ileri evrelerde ortaya çıkmaktadır (2). Meme ve akciğer kanserleri, malign melanom diğer batın dışı etkenlerdir, ancak palyatif bakım hastalarındaki genel insidansı tanı kriterlerine ve alta yatan hastalığa bağlı olarak %3 ile %15'inde arasında değişmektedir. Bu hasta gruplarında bir kez malign obstrüksiyon saptanması ortanca sağkalım değerlerini 3 aya kadar düşürmektedir (3).

Malign intestinal obstrüksiyon ince barsaklıarda kalın barsaklıara nazaran iki kat daha sık izlenmektedir. Ancak ince barsağın primer tümörleri olan karsinoid tümör ve adenokarsinomda intestinal obstrüksiyon insidansı %3'ten azdır (4). Literatürde ince barsak ve kalın barsağın beraber tutulduğu durumlar hastaların yaklaşık olarak %20'sinde bildirilmiştir (5). Kanser hasalarında barsak lümeni tikanıklığı sıklıkla yavaş gelişir ve parsiyeldir, tikanıklık

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<sup>1</sup> Uludağ Üniversitesi Tıp Fakültesi Genel Cerrahi Anabilim Dalı, Bursa, Türkiye

## Kaynaklar

1. Baines M. The pathophysiology and management of malignant intestinal obstruction. Oxford textbook of palliative medicine. 1998;526-34.
2. Ripamonti C. Pathophysiology and management of malignant bowel obstruction. Oxford text book of palliative medicine. 2003;496-507.
3. Baines M, Oliver DJ, Carter RL. Medical management of intestinal obstruction in patients with advanced malignant disease. A clinical and pathological study. Lancet. 1985;2(8462):990-3.
4. Mangili G, Aletti G, Frigerio L, Franchi M, Panacci N, Vigano R, et al. Palliative care for intestinal obstruction in recurrent ovarian cancer: a multivariate analysis. International Journal of Gynecologic Cancer. 2005;15(5).
5. Ripamonti C, Twycross R, Baines M, Bozzetti F, Capri S, De Conno F, et al. Clinical-practice recommendations for the management of bowel obstruction in patients with end-stage cancer. Supportive Care in Cancer. 2001;9(4):223-33.
6. Ripamonti C, Panzeri C, Groff L, Galeazzi G, Boffi R. The role of somatostatin and octreotide in bowel obstruction: pre-clinical and clinical results. Tumori. 2001;87(1):1-9.
7. Walsh D, Caraceni AT, Fainsinger R, Foley KM, Glare P. Palliative Medicine: Expert Consult Premium Edition/ Palliative Care: Core Skills and Clinical Competencies: Elsevier Science Health Science Division; 2009.
8. Low RN, Chen SC, Barone R. Distinguishing benign from malignant bowel obstruction in patients with malignancy: findings at MR imaging. Radiology. 2003;228(1):157-65.
9. Yennurajalingam S, Bruera E. Oxford American handbook of hospice and palliative medicine: Oxford University Press; 2012.
10. Thompson WM, Kilani RK, Smith BB, Thomas J, Jaffe TA, Delong DM, et al. Accuracy of abdominal radiography in acute small-bowel obstruction: does reviewer experience matter? AJR Am J Roentgenol. 2007;188(3):W233-8.
11. Gore RM, Levine MS. Textbook of gastrointestinal radiology 2 Ed. V. 22000.
12. Taourel P, Garibaldi F, Arrigoni J, Le Guen V, Lesnik A, Brue JM. Cecal pneumatosis in patients with obstructive colon cancer: correlation of CT findings with bowel viability. AJR Am J Roentgenol. 2004;183(6):1667-71.
13. Maung AA, Johnson DC, Piper GL, Barbosa RR, Rowell SE, Bokhari F, et al. Evaluation and management of small-bowel obstruction: an Eastern Association for the Surgery of Trauma practice management guideline. J Trauma Acute Care Surg. 2012;73(5 Suppl 4):S362-9.
14. Qalbani A, Paushter D, Dachman AH. Multidetector row CT of small bowel obstruction. Radiol Clin North Am. 2007;45(3):499-512, viii.
15. Jaffe T, Thompson WM. Large-Bowel Obstruction in the Adult: Classic Radiographic and CT Findings, Etiology, and Mimics. Radiology. 2015;275(3):651-63.
16. Idelevich E, Kashtan H, Mavor E, Brenner B. Small bowel obstruction caused by secondary tumors. Surg Oncol. 2006;15(1):29-32.
17. Khurana B, Ledbetter S, McTavish J, Wiesner W, Ros PR. Bowel obstruction revealed by multidetector CT. AJR Am J Roentgenol. 2002;178(5):1139-44.
18. Godfrey EM, Addley HC, Shaw AS. The use of computed tomography in the detection and characterisation of large bowel obstruction. N Z Med J. 2009;122(1305):57-73.
19. Maconi G, Porro GB. Ultrasound of the gastrointestinal tract: Springer; 2007.
20. Furukawa A, Yamasaki M, Takahashi M, Nitta N, Tanaka T, Kanasaki S, et al. CT diagnosis of small bowel obstruction: scanning technique, interpretation and role in the diagnosis. Semin Ultrasound CT MR. 2003;24(5):336-52.

21. Suri S, Gupta S, Sudhakar PJ, Venkataramu NK, Sood B, Wig JD. Comparative evaluation of plain films, ultrasound and CT in the diagnosis of intestinal obstruction. *Acta Radiol.* 1999;40(4):422-8.
22. Ferguson HJ, Ferguson CI, Speakman J, Ismail T. Management of intestinal obstruction in advanced malignancy. *Ann Med Surg (Lond).* 2015;4(3):264-70.
23. Ripamonti C, Mercadante S, Groff L, Zecca E, De Conno F, Casuccio A. Role of octreotide, scopolamine butylbromide, and hydration in symptom control of patients with inoperable bowel obstruction and nasogastric tubes: a prospective randomized trial. *J Pain Symptom Manage.* 2000;19(1):23-34.
24. Mercadante S, Ripamonti C, Casuccio A, Zecca E, Groff L. Comparison of octreotide and hyoscine butylbromide in controlling gastrointestinal symptoms due to malignant inoperable bowel obstruction. *Support Care Cancer.* 2000;8(3):188-91.
25. De Conno F, Caraceni A, Zecca E, Spoldi E, Ventafridda V. Continuous subcutaneous infusion of hyoscine butylbromide reduces secretions in patients with gastrointestinal obstruction. *J Pain Symptom Manage.* 1991;6(8):484-6.
26. Davis MP, Furste A. Glycopyrrolate: a useful drug in the palliation of mechanical bowel obstruction. *J Pain Symptom Manage.* 1999;18(3):153-4.
27. Palliative care of bowel obstruction in cancer patients 2021 [Available from: [https://www.uptodate.com/contents/palliative-care-of-bowel-obstruction-in-cancer-patients?search=oncologic%20emergencies%20intestinal%20obstruction&source=search\\_result&selectedTitle=10~150&usage\\_type=default&display\\_rank=10#H1882120747](https://www.uptodate.com/contents/palliative-care-of-bowel-obstruction-in-cancer-patients?search=oncologic%20emergencies%20intestinal%20obstruction&source=search_result&selectedTitle=10~150&usage_type=default&display_rank=10#H1882120747)].
28. Hisanaga T, Shinjo T, Morita T, Nakajima N, Ikenaga M, Tamizuru M, et al. Multicenter prospective study on efficacy and safety of octreotide for inoperable malignant bowel obstruction. *Jpn J Clin Oncol.* 2010;40(8):739-45.
29. Gupta M, Davis M, LeGrand S, Walsh D, Lagman R. Nausea and vomiting in advanced cancer: the Cleveland Clinic protocol. *J Support Oncol.* 2013;11(1):8-13.
30. Ripamonti CI, Easson AM, Gerdes H. Management of malignant bowel obstruction. *Eur J Cancer.* 2008;44(8):1105-15.
31. Ripamonti C, Twycross R, Baines M, Bozzetti F, Capri S, De Conno F, et al. Clinical-practice recommendations for the management of bowel obstruction in patients with end-stage cancer. *Support Care Cancer.* 2001;9(4):223-33.
32. Feuer DJ, Broadley KE. Corticosteroids for the resolution of malignant bowel obstruction in advanced gynaecological and gastrointestinal cancer. *Cochrane Database Syst Rev.* 2000;2000(2):Cd001219.
33. Adler DG, Baron TH. Endoscopic palliation of malignant gastric outlet obstruction using self-expanding metal stents: experience in 36 patients. *Am J Gastroenterol.* 2002;97(1):72-8.
34. Selby D, Nolen A, Sittambalam C, Johansen K, Pugash R. Percutaneous Transesophageal Gastrostomy (PTEG): A Safe and Well-Tolerated Procedure for Palliation of End-Stage Malignant Bowel Obstruction. *J Pain Symptom Manage.* 2019;58(2):306-10.
35. Abbott S, Eglinton TW, Ma Y, Stevenson C, Robertson GM, Frizelle FA. Predictors of outcome in palliative colonic stent placement for malignant obstruction. *Br J Surg.* 2014;101(2):121-6.
36. Atukorale YN, Church JL, Hoggan BL, Lambert RS, Gurgacz SL, Goodall S, et al. Self-Expanding Metallic Stents for the Management of Emergency Malignant Large Bowel Obstruction: a Systematic Review. *J Gastrointest Surg.* 2016;20(2):455-62.
37. Camúñez F, Echenagusia A, Simó G, Turégano F, Vázquez Js, Barreiro-Meiro I. Malignant colorectal obstruction treated by means of self-expanding metallic stents: effectiveness before surgery and in palliation. *Radiology.* 2000;216(2):492-7.

38. Law WL, Chu KW, Ho JW, Tung HM, Law SY, Chu KM. Self-expanding metallic stent in the treatment of colonic obstruction caused by advanced malignancies. Diseases of the colon & rectum. 2000;43(11):1522-7.
39. Ripamonti CI, Easson AM, Gerdes H. Management of malignant bowel obstruction. European Journal of Cancer. 2008;44(8):1105-15.
40. Pothuri B, Guirguis A, Gerdes H, Barakat RR, Chi DS. The use of colorectal stents for palliation of large-bowel obstruction due to recurrent gynecologic cancer. Gynecologic oncology. 2004;95(3):513-7.
41. Wright FC, Chakraborty A, Helyer L, Moravan V, Selby D. Predictors of survival in patients with non-curative stage IV cancer and malignant bowel obstruction. J Surg Oncol. 2010;101(5):425-9.
42. Hofmann B, Håheim LL, Søreide JA. Ethics of palliative surgery in patients with cancer. Br J Surg. 2005;92(7):802-9.
43. Fried TR, Bradley EH, Towle VR, Allore H. Understanding the treatment preferences of seriously ill patients. N Engl J Med. 2002;346(14):1061-6.
44. Feuer DJ, Broadley KE, Shepherd JH, Barton DP. Surgery for the resolution of symptoms in malignant bowel obstruction in advanced gynaecological and gastrointestinal cancer. Cochrane Database Syst Rev. 2000(4):Cd002764.
45. Costi R, Leonardi F, Zanoni D, Violi V, Roncoroni L. Palliative care and end-stage colorectal cancer management: the surgeon meets the oncologist. World J Gastroenterol. 2014;20(24):7602-21.
46. Cousins SE, Tempest E, Feuer DJ. Surgery for the resolution of symptoms in malignant bowel obstruction in advanced gynaecological and gastrointestinal cancer. Cochrane Database Syst Rev. 2016;2016(1):Cd002764.
47. Shariat-Madar B, Jayakrishnan TT, Gamblin TC, Turaga KK. Surgical management of bowel obstruction in patients with peritoneal carcinomatosis. J Surg Oncol. 2014;110(6):666-9.
48. Helyer L, Easson AM. Surgical approaches to malignant bowel obstruction. J Support Oncol. 2008;6(3):105-13.
49. Amelung FJ, Mulder CL, Verheijen PM, Draaisma WA, Siersema PD, Consten EC. Acute resection versus bridge to surgery with diverting colostomy for patients with acute malignant left sided colonic obstruction: Systematic review and meta-analysis. Surg Oncol. 2015;24(4):313-21.