

BÖLÜM 74

GASTROİNTESTİNAL KANAMALARA GÜNCEL YAKLAŞIM

Bilge SÖNMEZ¹

GİRİŞ

Son yıllarda teknolojideki tedavi gelişmelere bağlı olarak çok sayıda yeni iyileştirme metodları klinik uygulamaya dahil edilmiş olmasına rağmen gastrointestinal sistem (GİS) kanamaları halen toplumda sık görülen, morbidite ve mortalitesi yüksek önemli gastroenterolojik acillerdir(1,2).

Genellikle hastane ve yoğun bakım ünitesine yatış gerektiren bu kanamaların tanı ve tedavi maliyeti yüksektir. Kanama gastrointestinal (Gİ) kanal boyunca herhangi bir bölgeden ve altta yatan etyolojik nedenlere bağlı gelişen farklı lezyonlardan kaynaklanabilir(3).

Gİ kanamalar kronik demir eksikliği anemisi ile seyreden kanamalardan, ani ve mortal seyredebilen kanamalara uzanan farklı klinik spektrumlar şeklinde ortaya çıkabilir(4).

İyi bir klinik değerlendirme, uygun tanısal testlerin yapılması ve multidisipliner yaklaşım etkin tedavinin gerekleridir(5).

GİS kanamaları genelde ; Üst gastrointestinal kanama(ÜGİK), Alt gastrointestinal kanama (AGİK), Obscure Okült (gizli) kanama, Obscure Overt (aşikâr) kanama şeklinde dört grupta sınıflandırılarak incelenir(6).

Anatomik olarak treitz ligamentinin proksimal kısmından başlayan üst Gİ kanalındaki kanamalar ÜGİK olarak tanımlanır(7).

Acil servis başvuruların sık nedenlerinden biri olan ÜGİK , AGİK'dan 4-6 kat daha fazla görülmekte ve ileri yaşla mortalitesi artmaktadır (8,9).

AGİK ise Treitz ligamentinin distalinde kalan kolon ve rektumda görülen kanamalardır.

Obscure kanama, Gİ kanalın endoskopik ve radyografik yöntemlerle incelenmesine rağmen saptanamayan kanamalar olarak tanımlanır ve tüm GİS kanamalarının %10'unda görülür. Obscure okült kanama ; hastada kanama belirtileri olmasına rağmen subakut ve miktarı az olduğundan belirgin kanamanın görülemediği, obscure overt kanama ise aşikâr kanamanın olduğu ancak rutin muayene ve incelemelerle kanama odağının belirlenemediği kanamalardır(10).

Ülkemiz verileri sınırlı olmakla birlikte uluslararası literatürde akut ÜGİK'in yıllık insidansı 100.000 kişide 100-200 akut AGİK'in oranı ise 100.000 kişide 20.5-27.0 olarak belirtilmiştir(11).

GİS kanama vakalarının %80-85'i spontan olarak düzelse de, bazı vakalar masif kanama ve ölümlü sonuçlanabilir(11). Akut GİS kanamala-

¹ Uzm. Dr., Ankara Batıkent Şht. Kr. Plt. Ütgm. Burak Abikebaşı Aile Sağlığı Merkezi, bilgesnmez@yahoo.com

kan transfüzyonu gerekliliği, hospitalizasyon süresince 6 üniteden fazla kan transfüzyonu ihtiyacıdır (11,74).

BİRİNCİ BASAMAK YÖNETİMİ

GİS kanamaları mortalitesinin, tanı ve tedavi maliyetinin yüksek oluşu, çoğunlukla hastaneye ve yoğun bakım ünitesine yatış gerektirmesi nedeniyle multidisipliner bir yaklaşımla acil tanı ve tedavi gerektiren bir klinik tablodur. Aile hekimleri GİS kanamalarının önlenmesinde ve yönetiminde önemli bir role sahiptir. Birinci basamakta hastadan alınacak ayrıntılı anamnez, dikkatli bir fizik muayene ve doğru yorumlanabilen laboratuvar tetkikleri ile (biyokimyasal ,radyolojik, vb. testleri) acil müdahale ve sevk kriterleri uygulanarak gastrointestinal kanamaların mortalite ve morbiditesinin azalması sağlanabilir. Bunun yanında koruyucu hekimlik uygulamaları ve yaşam boyu hasta takibi ile kanama riski ve rekürren kanamaların azaltılabileceği unutulmamalıdır.

KAYNAKLAR

1. Sandel MH, Kolkman JJ, Kuipers EJ. Nonvariceal upper gastrointestinal bleeding; differences in outcome for patients admitted to internal medicine and gastroenterological services. *Am. J. Gastroenterol.* 2000; 95: 2357-62.
2. Palmer K, Atkinson S, Donnelly M, Forbes-Young R, Gomez C, Greer D, Halligan K, Hauser M, McPherson S, McCord M, et al. Acute upper gastrointestinal bleeding: management. UK: National Institute for Health and Clinical Excellence.
3. Longstreth GF. Epidemiology of hospitalization for acute upper gastrointestinal haemorrhage: a population based study. *Am J Gastroenterol.* 1995; 90: 206-10.
4. Yamada, T. 2002. "Handbook of Gastroenterology" Lippincott Williams & Wilkins. Philadelphia, 16-8.
5. Pınarbaşı B, Kaymakoglu S. Gastrointestinal Sistem Kanamalarına Yaklaşım. *Dahili Tıp Bilimleri Dergisi* 2005; 12(3): 117-129
6. Thomas J, Savides and Dennis M. Jensen: Gastrointestinal Bleeding. In: Sleisenger and Fordtran's

- Gastrointestinal and Liver Disease. Ninth Ed. Saunders Elsevier. 2010. Chapter 19, p:285-322
7. Okutur, SK. 2007. "Akut üst gastrointestinal sistem kanamaları: 230 olgunun analizi" *Akademik Gastroenteroloji Dergisi.* 6 (1): 30-36.
8. Alkim H, Şaşmaz N, Akut üst gastrointestinal sistem kanaması. Edit: Özden A, Şahin B, Yılmaz U, ve ark. *Gastroenteroloji.* 2002: 141-48
9. Fleischer D, Etiology and prevalence of severe persistent upper gastrointestinal bleeding. *Gastroenterology* 1983; 84: 538.
10. American Gastroenterological Association medical position statement: Evaluation and management of occult and obscure gastrointestinal bleeding. *Gastroenterology* 2000; 118: 197-201.
11. Farrell JJ, Friedman LS. Review article: the management of lower gastrointestinal bleeding. *Aliment Pharmacol Ther.* 2005 Jun 1;21(11):1281-98. doi: 10.1111/j.1365-2036.2005.02485.x. PMID: 15932359.
12. Laing CJ, Tobias T, Rosenblum DI, Banker WL, Tseng L, Tamarkin SW. Acute gastrointestinal bleeding: emerging role of multidetector CT angiography and review of current imaging techniques. *Radiographics.* 2007 Jul-Aug;27(4):1055-70. doi: 10.1148/rg.274065095. PMID: 17620467.
13. Cappell MS, Friedel D. Initial management of acute upper gastrointestinal bleeding: from initial evaluation up to gastrointestinal endoscopy. *Med Clin North Am.* 2008 May;92(3):491-509, xi. doi: 10.1016/j.mcna.2008.01.005. PMID: 18387374.
14. Johnson JO. Diagnosis of acute gastrointestinal hemorrhage and acute mesenteric ischemia in the era of multi-detector row CT. *Radiol Clin North Am.* 2012 Jan;50(1):173-82. doi: 10.1016/j.rcl.2011.09.001. PMID: 22099494.
15. Strate LL, Gralnek IM. ACG Clinical Guideline: Management of Patients With Acute Lower Gastrointestinal Bleeding. *Am J Gastroenterol.* 2016 Apr;111(4):459-74. doi: 10.1038/ajg.2016.41. Epub 2016 Mar 1. Erratum in: *Am J Gastroenterol.* 2016 May;111(5):755. PMID: 26925883; PMCID: PMC5099081.
16. Zimmerman HM, Curfman K. Acute gastrointestinal bleeding. *AACN Clin Issues.* 1997 Aug;8(3):449-58. doi: 10.1097/00044067-199708000-00013. PMID: 9313380.
17. Huang ES, Strate LL, Ho WW, Lee SS, Chan AT. Long-term use of aspirin and the risk of gastrointestinal bleeding. *Am J Med.* Mayıs 2011;124(5):426-33.

18. Sreedharan A, Martin J, Leontiadis GI, Dorward S, Howden CW, Forman D, vd. Proton pump inhibitor treatment initiated prior to endoscopic diagnosis in upper gastrointestinal bleeding. *Cochrane Database Syst Rev.* 07 Temmuz 2010;(7):CD005415.
19. Şerif Y. Gastrointestinal Kanamalar Güncel Yaklaşım Klinik Tıp Bilimleri Dergisi 2017; Cilt: 5 Sayı: 2
20. Hwang JH, Fisher DA, Ben-Menachem T, et al. The role of endoscopy in the management of acute non-variceal upper GI bleeding. *Gastrointest Endosc.* 2012;75(6):1132-1138. doi:10.1016/j.gie.2012.02.033
21. Upchurch BR. Upper gastrointestinal bleeding (UGIB). *Medscape.* 2019. <https://emedicine.medscape.com/article/187857-overview>.
22. Laine L, Laursen SB, Zakko L, et al. Severity and Outcomes of Upper Gastrointestinal Bleeding With Bloody Vs. Coffee-Grounds Hematemesis. *Am J Gastroenterol.* 2018;113(3):358-366. doi:10.1038/ajg.2018.5
23. Gralnek IM, Dumonceau JM, Kuipers EJ, et al. Diagnosis and management of nonvariceal upper gastrointestinal hemorrhage: European Society of Gastrointestinal Endoscopy (ESGE) Guideline. *Endoscopy* 2015;47:a1-46. doi:10.1055/s-0034-1393172 pmid:26417980
24. Sung JJ, Chiu PW, Chan FKL, et al. Asia-Pacific working group consensus on non-variceal upper gastrointestinal bleeding: an update 2018. *Gut* 2018;67:1757-68. doi:10.1136/gutjnl-2018-316276. PMID:29691276
25. Tripathi D, Stanley AJ, Hayes PC, et al., Clinical Services and Standards Committee of the British Society of Gastroenterology. U.K. guidelines on the management of variceal haemorrhage in cirrhotic patients. *Gut* 2015;64:1680-704. doi:10.1136/gutjnl-2015-309262 PMID:25887380
26. Garcia-Tsao G, Abraldes JG, Berzigotti A, Bosch J. Portal hypertensive bleeding in cirrhosis: Risk stratification, diagnosis, and management: 2016 practice guidance by the American Association for the study of liver diseases. *Hepatology* 2017;65:310-35. doi:10.1002/hep.28906 PMID:27786365
27. Saltzman JR. Approach to acute upper gastrointestinal bleeding in adults. *UpToDate.* 2019. www.uptodate.com.
28. Gibson W, Scaturo N, Allen C. Acute management of upper gastrointestinal bleeding. *AACN Adv Crit Care.* 2018;29(4):369-376.
29. Podolsky DK, Isselbacher K. Gastrointestinal sistem hastalıkları. Edit: Braunwald E, Fauci AS, Kasper DL, et al. *Harrison iç hastalıkları prensipleri.* Nobel Tıp Kitabevleri. 15. baskı 2004: 1649-65
30. Rokkas T, Karameris A, Mavrogeorgis A, Rallis E, Giannikos N. Eradication of *Helicobacter pylori* reduces the possibility of rebleeding in peptic ulcer disease. *Gastrointest Endosc* 1995; 41(1):1.
31. Bayerdörffer E, Neubauer A, Rudolph B, Thiede C, Lehn N, Eidt S, Stolte M. Regression of primary gastric lymphoma of mucosa-associated lymphoid tissue type after cure of *Helicobacter pylori* infection. *Lancet* 1995; 345(8965):1591
32. Laine L. Nonsteroidal anti-inflammatory drug gastropathy. *Gastrointest Endosc Clin North Am* 1996; 6: 489-504
33. Forrest JA, Finlayson ND, Shearman DJ. Endoscopy in gastrointestinal bleeding. *Lancet* 1974; 2:394-7
34. Graham DY, Smith JL. The course of patients after variceal hemorrhage. *Gastroenterology* 1981; 80:800-9
35. North Italia nEndoscopic Club for the Study and Treatment of Esophageal Varices. Prediction of the first variceal hemorrhage in patients with cirrhosis of the liver and esophageal varices. A prospective multicenter study. *NEngl J Med* 1988; 319(15):983-9.
36. Park CH, Min SW, Sohn YH, et al. A prospective, randomized trial of endoscopic band ligation vs epinephrine injection for actively bleeding Mallory-Weiss syndrome. *Gastrointest Endosc* 2004;60:22-7.
37. Saltzman JR. Approach to acute upper gastrointestinal bleeding in adults. *UpToDate.* 2019. www.uptodate.com.
38. Farrar FC. Management of acute gastrointestinal bleed. *Crit Care Nurs Clin North Am.* 2018;30(1):55-66.
39. Meehan CD, McKenna CG. Stopping acute upper-GI bleeds. *Am Nurse Today.* 2018;13(3):6-8.
40. Chalasani N, Clark WS, Wilcox CM. Blood urea nitrogen to creatinine concentration in gastrointestinal bleeding. A reappraisal. *Am J Gastroenterology* 1996; 92: 1796-7
41. Stanley A J, Laine L. Management of acute upper gastrointestinal bleeding *BMJ* 2019; 364 :1536 doi:10.1136/bmj.l536
42. Stanley AJ, Laine L, Dalton HR, et al., International Gastrointestinal Bleeding Consortium.

- Comparison of risk scoring systems for patients presenting with upper gastrointestinal bleeding: international multicentre prospective study. *BMJ* 2017;356:i6432. doi:10.1136/bmj.i6432 PMID:28053181
43. Laursen SB, Hansen JM, Schaffalitzky de Muckadell OB. The Glasgow Blatchford score is the most accurate assessment of patients with upper gastrointestinal hemorrhage. *Clin Gastroenterol Hepatol* 2012;10:1130-1135.e1. doi:10.1016/j.cgh.2012.06.022 PMID:22801061
 44. Yang HM, Jeon SW, Jung JT, et al., Daegu-Gyeongbuk Gastrointestinal Study Group (DGSG). Comparison of scoring systems for nonvariceal upper gastrointestinal bleeding: a multicenter prospective cohort study. *J Gastroenterol Hepatol* 2016;31:119-25. doi:10.1111/jgh.13057 PMID:26211939
 45. Ramaekers R, Mukarram M, Smith CA, Thiruganasambandamoorthy V. The predictive value of preendoscopic risk scores to predict adverse outcomes in emergency department patients with upper gastrointestinal bleeding: a systematic review. *Acad Emerg Med* 2016;23:1218-27. doi:10.1111/acem.13101 PMID:27640399
 46. Leerdam ME, Vreeburg EM, Rauws EA, Geraedts AA, Tijssen JG, Reitsma JB, Tytgat GN. Acute upper GI bleeding: did anything change? Time trend analysis of incidence and outcome of acute upper GI bleeding between 1993/1994 and 2000. *Am J Gastroenterol*. 2003;98:1494-1499
 47. Blatchford O, Murray WR, Blatchford M. A risk score to predict need for treatment for upper-gastrointestinal haemorrhage. *Lancet* 2000;356:1318-21. doi:10.1016/S0140-6736(00)02816-6 PMID:11073021
 48. Marmo RKoch M, Cipolletta Let al. Italian registry on upper gastrointestinal bleeding (Progetto Nazionale Emorragie Digestive--PNED 2). Predicting mortality in non-variceal upper gastrointestinal bleeders: validation of the Italian PNED Score and Prospective Comparison with the Rockall Score. *Am J Gastroenterol* 2010;105:1284-91. doi:10.1038/ajg.2009.687 PMID:20051943
 49. Saltzman JR, Tabak YP, Hyett BH, Sun X, Travis AC, Johannes . A simple risk score accurately predicts in-hospital mortality, length of stay, and cost in acute upper GI bleeding. *Gastrointest Endosc* 2011;74:1215-24. doi:10.1016/j.gie.2011.06.024 PMID:21907980
 50. Blatchford O, Davidson LA, Murray WR, Blatchford M, Pell J. Acute upper gastrointestinal haemorrhage in west of Scotland: case ascertainment study. *BMJ* 1997;315:510-4. doi:10.1136/bmj.315.7107.510 PMID:9329304
 51. Khuroo MS, Yattoo GN, Javid G. A comparison of omeprazole and placebo for bleeding peptic ulcer. *N Engl J Med* 1997;336:1054-8.
 52. Lau JYW, Sung JY, Lee KKC, et al. Effect of intravenous omeprazole on recurrent bleeding after endoscopic treatment of bleeding peptic ulcers. *N Engl J Med* 2000;343:310-16.
 53. Cooper GS, Chak A, Way LE, Hammar PJ, Harper DL, Rosenthal GE. Early endoscopy in upper gastrointestinal hemorrhage: associations with recurrent bleeding, surgery, and length of hospital stay. *Gastrointest Endosc* 1999; 49: 145-152
 54. Swain CP. Laser therapy for gastrointestinal bleeding. *Gastrointest Endosc Clin N Am* 1997; 7: 611-3
 55. Cook DJ, Guyatt GH, Salena BJ, et al. Endoscopic therapy for acute nonvariceal upper gastrointestinal hemorrhage: A meta-analysis. *Gastroenterology* 1992; 102: 139-48.
 56. Vergara M, Bennett C, Calvet X, Gisbert JP. Epinephrine injection versus epinephrine injection and a second endoscopic method in high-risk bleeding ulcers. *Cochrane Database Syst Rev* 2014; 10:CD00558
 57. Alis H, Oner OZ, Kalayci MU. Is endoscopic band ligation superior to injection therapy for Dieulafoy lesion? *Surg Endosc Other Interv Tech* 2009;23:1465-1469
 58. North Italian Endoscopic Club for the study and treatment of esophageal varices. Prediction of the first variceal hemorrhage in patients with cirrhosis of the liver and esophageal varices. *N Engl Med* 1988; 319: 983-9.
 59. Gunjan D, Sharma V, Rana SS, Bhasin DK. Small bowel bleeding: a comprehensive review. *Gastroenterol Rep (Oxf)* 2014;2:262-275.
 60. Lanás A, García-Rodríguez LA, Polo-Tomás M, Ponce M, Alonso-Abreu I, Perez-Aisa MA, Perez-Gisbert J, Bujanda L, Castro M, Muñoz M, Rodrigo L, Calvet X, Del-Pino D, Garcia S. Time trends and impact of upper and lower gastrointestinal bleeding and perforation in clinical practice. *Am J Gastroenterol*. 2009;104:1633-1641.
 61. Laine L, Yang H, Chang SC, Datto C. Trends for incidence of hospitalization and death due to GI complications in the United States from 2001 to 2009. *Am J Gastroenterol*. 2012;107:1190-1195; quiz 1196.
 62. Hreinsson JP, Gumundsson S, Kalaitzakis E, Björnsson ES. Lower gastrointestinal bleeding:

- incidence, etiology, and outcomes in a population-based setting. *Eur J Gastroenterol Hepatol.* 2013;25:37–43.
63. Anthony T, Penta P, Todd RD, Sarosi GA, Nwariaku F, Rege RV. Rebleeding and survival after acute lower gastrointestinal bleeding. *Am J Surg.* 2004;188:485–490.
 64. Aoki T, Nagata N, Niikura R, Shimbo T, Tanaka S, Sekine K, Kishida Y, Watanabe K, Sakurai T, Yokoi C, Akiyama J, Yanase M, Mizokami M, Uemura N. Recurrence and mortality among patients hospitalized for acute lower gastrointestinal bleeding. *Clin Gastroenterol Hepatol.* 2015;13:488–494.e1.
 65. The role of endoscopy in the patient with lower GI bleeding; American Society for Gastrointestinal Endoscopy (ASGE) Guideline
 66. Vernava AM, Moore BA, Longo WE, et al. Lower-gastrointestinal bleeding. *Dis Colon Rectum* 1997; 40: 846-58.
 67. Acute Lower Gastrointestinal Bleeding: Evaluation and Management Matthew K. Hawks, MD, Uniformed Services University of the Health Sciences, Bethesda, Maryland Jennifer E. Svarverud, DO, Mike O'Callaghan Military Medical Center, Nellis Air Force Base, Nevada 2020 Feb 15;101(4):206-212.
 68. McGuire, H.H. Jr. and Haynes, B.W. Jr. Massive hemorrhage for diverticulosis of the colon: guidelines for therapy based on bleeding patterns observed in fifty cases. *Ann Surg.* 1972; 175: 847–855
 69. Jensen DM, Machicado GA, Jutabha R, Kovacs TO. Urgent colonoscopy for the diagnosis and treatment of severe diverticular hemorrhage. *N Engl J Med.* 2000;342:78–82.
 70. Jensen DM, Ohning GV, Kovacs TO, Jutabha R, Ghassemi K, Dulai GS, Machicado GA. Natural history of definitive diverticular hemorrhage based on stigmata of recent hemorrhage and colonoscopic Doppler blood flow monitoring for risk stratification and definitive hemostasis. *Gastrointest Endosc.* 2016;83:416–423.
 71. El-Tawil AM. Trends on gastrointestinal bleeding and mortality: where are we standing? *World J Gastroenterol.* 2012;18(11):1154–1158.
 72. Strate LL, Gralnek IM. ACG clinical guideline: management of patients with acute lower gastrointestinal bleeding [published correction appears in *Am J Gastroenterol.* 2016;111(5):755]. *Am J Gastroenterol.* 2016;111(4):459–474.
 73. Becq A, Rahmi G, Perrod G, et al. Hemorrhagic angiodysplasia of the digestive tract: pathogenesis, diagnosis, and management. *Gastrointest Endosc.* 2017;86(5):792–806.
 74. Strate LL, Naumann CR. The role of colonoscopy and radiological procedures in the management of acute lower intestinal bleeding. *Clin Gastroenterol Hepatol.* 2010;8:333–343; quiz e44.