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Daftar Pustaka Ileus Obstruksi

- Ahmed, A. R., & Taylor, I. (1997). Superior mesenteric artery syndrome. *Postgraduate medical journal*, 73(866), 776-778.
- Azagury, D., Liu, R. C., Morgan, A., & Spain, D. A. (2015). Small bowel obstruction: a practical step-by-step evidence-based approach to evaluation, decision making, and management. *Journal of Trauma and Acute Care Surgery*, 79(4), 661-668.
- Bakhshi, G. D., Chincholkar, R. G., Agarwal, J. R., Gupta, M. R., Gokhe, P. S., & Nadkarni, A. R. (2017). Gallstone ileus: dilemma in the management. *Clinics and practice*, 7(3), 117-119.
- Barquín-Yagüez, J., Abadía Barnó, P., & García Pérez, J. C. (2017). Superior mesenteric artery syndrome: an uncommon cause of intestinal obstruction. *Rev Esp Enferm Dig*, 109(1), 60.
- Bouassida, M., Laamiri, G., Zribi, S., Slama, H., Mroua, B., Sassi, S., ... & Touinsi, H. (2020). Predicting intestinal ischaemia in patients with adhesive small bowel obstruction: a simple score. *World journal of surgery*, 1-6.
- Cappell, M. S., & Batke, M. (2008). Mechanical obstruction of the small bowel and colon. *Medical Clinics of North America*, 92(3), 575-597.

- Chiu, C. C., Siao, F. Y., & Yen, H. H. (2015). Pneumatosis intestinalis. *Journal of Emergency Medicine*, 49(4), e137-e138.
- Condon, R. E., & Nyhus, L. M. (1985). *Manual of surgical therapeutics*. Little Brown and Company.
- Deitch, E. A., Bridges, W. M., Ma, J. W., Ma, L., Berg, R. D., & Specian, R. D. (1990). Obstructed intestine as a reservoir for systemic infection. *The American Journal of Surgery*, 159(4), 394-401.
- Diaz Jr, J. J., Bokhari, F., Mowery, N. T., Acosta, J. A., Block, E. F., Bromberg, W. J., ... & Jerome, R. (2008). Guidelines for management of small bowel obstruction. *Journal of Trauma and Acute Care Surgery*, 64(6), 1651-1664.
- Feigin, E., Seror, D., Szold, A., Carmon, M., Allweis, T. M., Nissan, A., ... & Freund, H. R. (1996). Water-soluble contrast material has no therapeutic effect on postoperative small-bowel obstruction: results of a prospective, randomized clinical trial. *The American journal of surgery*, 171(2), 227-229.
- Gore, R. M., Silvers, R. I., Thakrar, K. H., Wenzke, D. R., Mehta, U. K., Newmark, G. M., & Berlin, J. W. (2015). Bowel obstruction. *Radiologic Clinics*, 53(6), 1225-1240.
- Gthrie Jr, R. H. (1971). Wilkie's syndrome. *Annals of surgery*, 173(2), 290.
- Hanks, J. B., Thyroid, Q., Townsend, C. M., Beauchamp, R. D., Evers, B. M., & Mattox, K. L. (2004). *Sabiston Textbook of Surgery*.
- Hines, J. R., Gore, R. M., & Ballantyne, G. H. (1984). Superior mesenteric artery syndrome: diagnostic criteria and therapeutic approaches. *The American journal of surgery*, 148(5), 630-632.
- Hsu, H. L., Wu, Y. M., & Liu, K. L. (2011). Ogilvie syndrome: acute pseudo-obstruction of the colon. *CmAj*, 183(3), E162-E162.

- Hutchinson, R., & Griffiths, C. (1992). Acute colonic pseudo-obstruction: a pharmacological approach. *Annals of the Royal College of Surgeons of England*, 74(5), 364.
- Ischemia and clinical outcome. *American journal of roentgenology*, 177(6), 1319-1323.
- Jackson, P., & Raiji, M. T. (2011). Evaluation and Mangement of Intestinal Obstruction. *American family physician*, 83(2), 159-165.
- Jaffe, T., & Thompson, W. M. (2015). Large-bowel obstruction in the adult: classic radiographic and CT findings, etiology, and mimics. *Radiology*, 275(3), 651-663.
- Kapan, M., Onder, A., Polat, S., Aliosmanoglu, I., Arikanoglu, Z., Taskesen, F., & Girgin, S. (2012). Mechanical bowel obstruction and related risk faktors on morbidity and mortality. *Journal of Current surgery*, 2(2), 55-61.
- Köstenbauer, J., & Truskett, P. G. (2018). Current management of adhesive small bowel obstruction. *ANZ journal of surgery*, 88(11), 1117-1122.
- Lappas, J. C., Reyes, B. L., & Maglinte, D. D. (2001). Abdominal radiography findings in small-bowel obstruction: relevance to triage for additional diagnostic imaging. *American Journal of Roentgenology*, 176(1), 167-174.
- Loftus, T., Moore, F., VanZant, E., Bala, T., Brakenridge, S., Croft, C., ... & Jordan, J. (2015). A protocol for the management of adhesive small bowel obstruction. *The journal of trauma and acute care surgery*, 78(1), 13.
- Mallo, R. D., Salem, L., Lalani, T., & Flum, D. R. (2005). Computed tomography diagnosis of ischemia and complete obstruction in small bowel obstruction: a systematic review. *Journal of gastrointestinal surgery*, 9(5), 690-694.

- Matsushima, K., Sabour, A., Park, C., Strumwasser, A., Inaba, K., & Demetriades, D. (2019). Management of adhesive small bowel obstruction: A distinct paradigm shift in the United States. *Journal of Trauma and Acute Care Surgery*, 86(3), 383-391.
- Merrett, N. D., Wilson, R. B., Cosman, P., & Biankin, A. V. (2009). Superior mesenteric artery syndrome: diagnosis and treatment strategies. *Journal of Gastrointestinal Surgery*, 13(2), 287.
- Miller, G., Boman, J., Shrier, I., & Gordon, P. H. (2000). Etiology of small bowel obstruction. *The American Journal of Surgery*, 180(1), 33-36.
- Mucha Jr, P. (1987). Small intestinal obstruction. *Surgical Clinics of North America*, 67(3), 597-620.
- Ozturk, E., van Iersel, M., Stommel, M. M., Schoon, Y., Ten Broek, R. R., & van Goor, H. (2018). Small bowel obstruction in the elderly: a plea for comprehensive acute geriatric care. *World Journal of Emergency Surgery*, 13(1), 1-8.
- Pisano, M., Zorcolo, L., Merli, C., Cimbanassi, S., Poiasina, E., Ceresoli, M., ... & Ansaloni, L. (2018). 2017 WSES guidelines on colon and rectal cancer emergencies: obstruction and perforation. *World journal of emergency surgery*, 13(1), 1-27.
- Pisano, M., Zorcolo, L., Merli, C., Cimbanassi, S., Poiasina, E., Ceresoli, M., ... & Ansaloni, L. (2018). 2017 WSES guidelines on colon and rectal cancer emergencies: obstruction and perforation. *World journal of emergency surgery*, 13(1), 1-27.
- Ravikumar, R., & Williams, J. G. (2010). The operative management of gallstone ileus. *The Annals of The Royal College of Surgeons of England*, 92(4), 279-281.
- Reddy, S. R. R., & Cappell, M. S. (2017). A systematic review of the clinical presentation, diagnosis, and treatment of small bowel obstruction. *Current gastroenterology reports*, 19(6), 28.

- Rehman, A., Saeed, A., Shaukat, T., Jamil, K., Zaidi, A. H., & Abdullah, K. (2011). Wilkie's syndrome. *J Coll Physicians Surg Pak*, 21(1), 43-5.
- Reyes, B. L., Harmon, B. H., Turner Jr, W. W., Hage, J. E., Ng, A. C., Chua, G. T., & Gage, S. N. Reliability and Role of Plain Film Radiography and CT in the Diagnosis of Small-Bowel.
- Rha, S. E., Ha, H. K., Lee, S. H., Kim, J. H., Kim, J. K., Kim, J. H., ... & Auh, Y. H. (2000). CT and MR imaging findings of bowel ischemia from various primary causes. *Radiographics*, 20(1), 29-42.
- Roothans, D., & Anguille, S. (2013). Rigler triad in gallstone ileus. *CMAJ*, 185(14), E690-E690.
- Santillan, C. S. (2013). Computed tomography of small bowel obstruction. *Radiologic Clinics*, 51(1), 17-27.
- Seror, D., Feigin, E., Szold, A., Allweis, T. M., Carmon, M., Nissan, S., & Freund, H. R. (1993). How conservatively can postoperative small bowel obstruction be treated?. *The American journal of surgery*, 165(1), 121-126.
- Sherman, S. C., & Hansen, S. (2004). Pneumatosis intestinalis and portomesenteric venous gas. *Journal of Emergency Medicine*, 26(2), 213-215.
- Stephenson, B. M., Morgan, A. R., Salaman, J. R., & Wheeler, M. H. (1995). Ogilvie's syndrome: a new approach to an old problem. *Diseases of the colon & rectum*, 38(4), 424-427.
- Taourel, P., Kessler, N., Lesnik, A., Pujol, J., Morcos, L., & Bruel, J. M. (2003). Helical CT of large bowel obstruction. *Abdominal Radiology*, 28(2), 267.
- Taylor, M. R., & Lalani, N. (2013). Adult small bowel obstruction. *Academic Emergency Medicine*, 20(6), 527-544.

- Ten Broek, R. P., Krielen, P., Di Saverio, S., Coccolini, F., Biffi, W. L., Ansaloni, L., ... & van Goor, H. (2018). Bologna guidelines for diagnosis and management of adhesive small bowel obstruction (ASBO): 2017 update of the evidence-based guidelines from the world society of emergency surgery ASBO working group. *World Journal of Emergency Surgery*, 13(1), 1-13.
- Thompson, W. M., Kilani, R. K., Smith, B. B., Thomas, J., Jaffe, T. A., Delong, D. M., & Paulson, E. K. (2007). Accuracy of abdominal radiography in acute small-bowel obstruction: does reviewer experience matter?. *American Journal of Roentgenology*, 188(3), W233-W238.
- Wiesner, W., Mortelé, K. J., Glickman, J. N., Ji, H., & Ros, P. R. (2001). Pneumatosis intestinalis and portomesenteric venous gas in intestinal ischemia: correlation of CT findings with severity of intestinal ischemia: correlation of CT findings with severity of intestinal ischemia: correlation of CT findings with severity of intestinal ischemia.
- Wiesner, W., Mortelé, K. J., Glickman, J. N., Ji, H., & Ros, P. R. (2001). Pneumatosis intestinalis and portomesenteric venous gas in intestinal ischemia: correlation of CT findings with severity of ischemia and clinical outcome. *American journal of roentgenology*, 177(6), 1319-1323.
- Zachariah, S. K. (2014). Wilkie's syndrome: a rare cause of intestinal obstruction. *Case Reports*, 2014, bcr2013203059.
- Zielinski, M. D., & Bannon, M. P. (2011). Current management of small bowel obstruction. *Advances in surgery*, 45(1), 1-29.

Daftar Pustaka Sepsis

- Adiwinoto, R. P., Sustini, F., Hardiono, H., Widodo, A. D. W., Hidajat, B., & Hadi, U. (2018). Empirical Antibiotic Therapy Assessment of Patients diagnosed with Sepsis in Intermediate Care Ward of Internal Medicine Department of Dr. Soetomo

General Hospital according to Gyssens Method. *Oceana Biomedicina Journal*, 1(2), 69-78.

- Badan Penelitian dan Pengembangan Kesehatan Kementerian Kesehatan RI. Riset kesehatan dasar 2013. 2013. Hal. 65
- Bernard, G. R., Vincent, J. L., Laterre, P. F., LaRosa, S. P., Dhainaut, J. F., Lopez-Rodriguez, A., ... & Fisher Jr, C. J. (2001). Efficacy and safety of recombinant human activated protein C for severe sepsis. *New England journal of medicine*, 344(10), 699-709.
- Bochud, P. Y., Glauser, M. P., & Calandra, T. (2001). Antibiotics in sepsis. *Intensive Care Med*, 27(Suppl 1), S33-S48.
- Bone, R. C. (1991). The pathogenesis of sepsis. *Annals of internal medicine*, 115(6), 457-469.
- Casserly, B., Phillips, G. S., Schorr, C., Dellinger, R. P., Townsend, S. R., Osborn, T. M., ... & Levy, M. M. (2015). Lactate measurements in sepsis-induced tissue hypoperfusion: results from the Surviving Sepsis Campaign database. *Critical care medicine*, 43(3), 567-573.
- Chousterman, B. G., Swirski, F. K., & Weber, G. F. (2017, July). Cytokine storm and sepsis disease pathogenesis. In *Seminars in immunopathology* (Vol. 39, No. 5, pp. 517-528). Springer Berlin Heidelberg.
- Cinel, I., & Dellinger, R. P. (2007). Advances in pathogenesis and management of sepsis. *Current opinion in infectious diseases*, 20(4), 345-352.
- Dries JD, editors. *Fundamental Critical Care Support*. 5nd ed. Mount Prospect: Third Printing; 2014. 13. Backer D, Dorman T. Surviving sepsis guidelines: a continuous move toward better care of patients with sepsis. *JAMA*. 2017; 317(8): 807-8.
- Dugar, S., Choudhary, C., & Duggal, A. (2020). Sepsis and septic shock: Guideline-based management. *Cleveland Clinic journal of medicine*, 87(1), 53-64.

- Fuchs, A., Bielicki, J., Mathur, S., Sharland, M., & Van Den Anker, J. N. (2018). Reviewing the WHO guidelines for antibiotic use for sepsis in neonates and children. *Paediatrics and international child health*, 38(sup1), S3-S15.
- Howell MD, Davis AM. Management 73 Volume X, Nomor 1, Tahun 2018 Jurnal Anestesiologi Indonesia of sepsis and septic shock. *JAMA*. 2017; 317(8): 847-8.
- Howell, M. D., & Davis, A. M. (2017). Management of sepsis and septic shock. *Jama*, 317(8), 847-848.
- Iskander, K. N., Osuchowski, M. F., Stearns-Kurosawa, D. J., Kurosawa, S., Stepien, D., Valentine, C., & Remick, D. G. (2013). Sepsis: multiple abnormalities, heterogeneous responses, and evolving understanding. *Physiological reviews*, 93(3), 1247-1288.
- Levy, M. M., Evans, L. E., & Rhodes, A. (2018). The surviving sepsis campaign bundle: 2018 update. *Intensive care medicine*, 44(6), 925-928.
- Makic, M. B. F., & Bridges, E. (2018). CE: managing sepsis and septic shock: current guidelines and definitions. *The Leading Voice of Nursing Since 1900 | AJN*, 118(2), 34-39.
- Marik, P. E. (2020). The management of sepsis: science & fiction. *Journal of thoracic disease*, 12(Suppl 1), S1.
- Marik, P. E., Farkas, J. D., Spiegel, R., Weingart, S., Aberegg, S., Beck-Esmay, J., ... & Thomas, A. (2019). POINT: should the Surviving Sepsis Campaign guidelines be retired? Yes. *Chest*, 155(1), 12-14.
- Mehta Y, Kochar G. Sepsis and septic shock. *Journal of Cardiac Critical Care TSS*. 2017; 1(1): 3-5.
- Napolitano, L. M. (2018). Sepsis 2018: definitions and guideline changes. *Surgical infections*, 19(2), 117-125.

- Nguyen BH, Rivers EP, Abrahamian FM, Moran GJ, Abraham E, Trzeciak S, et al. Severe sepsis and septic shock: review of the literature and emergency department management guidelines. *Annals of Emergency Medicine*. 2006; 48(1): 28-50.
- Nguyen, H. B., Rivers, E. P., Knoblich, B. P., Jacobsen, G., Muzzin, A., Ressler, J. A., & Tomlanovich, M. C. (2004). Early lactate clearance is associated with improved outcome in severe sepsis and septic shock. *Critical care medicine*, 32(8), 1637-1642.
- Parrillo, J. E. (1993). Pathogenetic mechanisms of septic shock. *New England Journal of Medicine*, 328(20), 1471-1477.
- Pieracci, F. M., & Barie, P. S. (2007). Management of severe sepsis of abdominal origin. *Scandinavian journal of surgery*, 96(3), 184-196.
- Rhodes, A., Evans, L. E., Alhazzani, W., Levy, M. M., Antonelli, M., Ferrer, R., ... & Dellinger, R. P. (2017). Surviving sepsis campaign: international guidelines for management of sepsis and septic shock: 2016. *Intensive care medicine*, 43(3), 304-377.
- Rivers, E, Nguyent B, Havstad S, Ressler J, Muzzin A, Knoblich B, et al. Early goal directed therapy in the treatment of severe sepsis and septic shock. *N Eng J Med*. 2001; 345 (19): 1368-77.
- Rosário, A. L., Park, M., Brunialti, M. K., Mendes, M., Rapozo, M., Fernandes, D., ... & Azevedo, L. C. P. (2011). SvO₂-guided resuscitation for experimental septic shock: effects of fluid infusion and dobutamine on hemodynamics, inflammatory response, and cardiovascular oxidative stress. *Shock*, 36(6), 604-612.
- Schinkel, M., Panday, R. S. N., Wiersinga, W. J., & Nanayakkara, P. W. (2020). Timeliness of antibiotics for patients with sepsis and septic shock. *Journal of thoracic disease*, 12(Suppl 1), S66.
- Singer, M., Deutschman, C. S., Seymour, C. W., Shankar-Hari, M., Annane, D., Bauer, M., ... & Angus, D. C. (2016). The third

- international consensus definitions for sepsis and septic shock (Sepsis-3). *Jama*, 315(8), 801-810.
- Stearns-Kurosawa, D. J., Osuchowski, M. F., Valentine, C., Kurosawa, S., & Remick, D. G. (2011). The pathogenesis of sepsis. *Annual review of pathology: mechanisms of disease*, 6, 19-48.
- Vincent JL, Moreno R, Takala J, Willatts S, De Mendonca A, Bruining H, et al. The SOFA (sepsis-related organ failure assessment) score to describe organ dysfunction/ failure. *Intensive Care Med*. 1996; 22: 707- 10.
- Weiss, S. L., Peters, M. J., Alhazzani, W., Agus, M. S., Flori, H. R., Inwald, D. P., ... & Tissieres, P. (2020). Executive summary: surviving sepsis campaign international guidelines for the management of septic shock and sepsis-associated organ dysfunction in children. *Intensive care medicine*, 46(1), 1-9.
- Wooley, J. A., Btaiche, I. F., & Good, K. L. (2005). Metabolic and nutritional aspects of acute renal failure in critically ill patients requiring continuous renal replacement therapy. *Nutrition in clinical practice*, 20(2), 176-191.
- World Health Organization. Indonesia: WHO statistical profile. [Internet]. 2015. [cited 2018 Jan 6]. Available from: URL: <http://www.who.int/gho/countries/idn.pdf?ua=1>
- Mayr FB, Yende S, Angus DC. Epidemiology of severe sepsis. *Virulence*. 2013; 5(1): 4-11

Daftar Pustaka Peritonitis Generalisata

- Abu-Hijleh, M. F., Habbal, O. A., & Moqattash, S. T. (1995). The role of the diaphragm in lymphatic absorption from the peritoneal cavity. *Journal of anatomy*, 186(Pt 3), 453.

- Buijk, S. E., & Bruining, H. A. (2002). Future directions in the management of tertiary peritonitis. *Intensive care medicine*, 28(8).
- Chromik, A. M., Meiser, A., Hölling, J., Sülberg, D., Daigeler, A., Meurer, K., ... & Uhl, W. (2009). Identification of patients at risk for development of tertiary peritonitis on a surgical intensive care unit. *Journal of Gastrointestinal Surgery*, 13(7), 1358-1367.
- Chugh, K., Agrawal, Y., Goyal, V., Khatri, V., & Kumar, P. (2015). Diagnosing bacterial peritonitis made easy by use of leukocyte esterase dipsticks. *International journal of critical illness and injury science*, 5(1), 32.
- Dong, P., Chen, J. J., Wang, X. Z., & Wang, Y. Q. (2015). Intrapertoneal tuberculous abscess: Computed tomography features. *World journal of radiology*, 7(9), 286.
- Gearhart SL, Silen W. Acute appendicitis and peritonitis. Dalam: Fauci A, Braunwald E, Kasper D, Hauser S, Longo D, Jameson J, et al, editor (penyunting). *Harrison's principal of internal medicine*. Edisi ke-17 Volume II. USA: McGrawHill; 2008. hlm. 1916-7.
- Johnson C, Baldessarre J, Levison M. Peritonitis: Update on Pathophysiology, Clinical Manifestations, and Management. *Clinical Infectious Disease* 1997;24:1035-47
- Lameris, W. (2009). van RA, van Es HW, van Heesewijk JP, van RB, Bouma WH, et al: Imaging strategies for detection of urgent conditions in patients with acute abdominal pain: diagnostic accuracy study. *BMJ*, 338, b2431.
- Malangoni, M. A. (2000). Evaluation and management of tertiary peritonitis. *The American Surgeon*, 66(2), 157.
- Malik, A. A., Wani, K. A., Dar, L. A., Wani, M. A., Wani, R. A., & Parray, F. Q. (2010). Mannheim Peritonitis Index and APACHE

- II-Prediction of outcome in patients with peritonitis. *Turkish journal of trauma and emergency surgery*, 16(1), 27-32.
- Mishra, S. P., Tiwary, S. K., Mishra, M., & Gupta, S. K. (2014). An introduction of tertiary peritonitis. *Journal of emergencies, trauma, and shock*, 7(2), 121.
- Mukhopadhyay, A., Dey, R., & Bhattacharya, U. (2014). Abdominal tuberculosis with an acute abdomen: our clinical experience. *Journal of clinical and diagnostic research: JCDR*, 8(7), NC07.
- Nathens, A. B., Rotstein, O. D., & Marshall, J. C. (1998). Tertiary peritonitis: clinical features of a complex nosocomial infection. *World journal of surgery*, 22(2), 158-163.
- Notash, A. Y., Salimi, J., Rahimian, H., Fesharaki, M. S. H., & Abbasi, A. (2005). Evaluation of Mannheim peritonitis index and multiple organ failure score in patients with peritonitis. *Indian journal of gastroenterology*, 24(5), 197.
- Qureshi, A. M., Zafar, A., Saeed, K., & Quddus, A. (2005). Predictive power of Mannheim peritonitis index. *JOURNAL-COLLEGE OF PHYSICIANS AND SURGEONS OF PAKISTAN*, 15(11), 693.
- Reemst, P. H., Van Goor, H., & Goris, R. J. A. (1996). SIRS, MODS and tertiary peritonitis. *European Journal of Surgery-Acta Chirurgica-Supplements Only*, (576), 47-49.
- Ross, J. T., Matthay, M. A., & Harris, H. W. (2018). Secondary peritonitis: principles of diagnosis and intervention. *Bmj*, 361.
- Shivde, R., Patel, K., Mittal, S., & Prasla, S. (2016). Ultrasound findings in abdominal tuberculosis: usual and unusual appearances.
- Skipworth, R. J. E., & Fearon, K. C. H. (2008). Acute abdomen: peritonitis. *Surgery (Oxford)*, 26(3), 98-101.

- Van Baal, J. O. A. M., Van de Vijver, K. K., Nieuwland, R., Van Noorden, C. J. F., Van Driel, W. J., Sturk, A., ... & Lok, C. A. R. (2017). The histophysiology and pathophysiology of the peritoneum. *Tissue and Cell*, 49(1), 95-105.
- Van Ruler, O., & Boermeester, M. A. (2017). Surgical treatment of secondary peritonitis. *Der Chirurg*, 88(1), 1-6.
- Wittmann, D. H., Schein, M., & Condon, R. E. (1996). Management of secondary peritonitis. *Annals of surgery*, 224(1), 10.
- Wittmann, D. H., Walker, A. P., & Condon, R. E. (1993). Peritonitis, intra-abdominal infection, and intra-abdominal abscess. In *Principles of surgery* (pp. 1449-1449). New York: McGraw Hill.

Daftar Pustaka HIA dab ACS

- An, G., & West, M. A. (2008). Abdominal compartment syndrome: a concise clinical review. *Critical care medicine*, 36(4), 1304-1310.
- Ball, C. G., & Kirkpatrick, A. W. (2007). Intra-abdominal hypertension and the abdominal compartment syndrome. *Scandinavian Journal of Surgery*, 96(3), 197-204.
- Balogh, Z., De Waele, J. J., & Malbrain, M. L. N. G. (2007). Continuous intra-abdominal pressure monitoring. *Acta Clinica Belgica*, 62(sup1), 26-32.
- Cheatham, M. L. (2008). Intraabdominal pressure monitoring during fluid resuscitation. *Current opinion in critical care*, 14(3), 327-333.
- Cheatham, M. L. (2009). Nonoperative management of intraabdominal hypertension and abdominal compartment syndrome. *World journal of surgery*, 33(6), 1116-1122.
- Cheatham, M. L., Malbrain, M. L., Kirkpatrick, A., Sugrue, M., Parr, M., De Waele, J., ... & Wilmer, A. (2007). Results from

- the international conference of experts on intra-abdominal hypertension and abdominal compartment syndrome. II. Recommendations. *Intensive care medicine*, 33(6), 951-962.
- Coccolini, F., Biffl, W., Catena, F., Ceresoli, M., Chiara, O., Cimbanassi, S., ... & Ansaloni, L. (2015). The open abdomen, indications, management and definitive closure. *World Journal of Emergency Surgery*, 10(1), 1-10.
- Daugherty, E. L., Liang, H., Taichman, D., Hansen-Flaschen, J., & Fuchs, B. D. (2007). Abdominal compartment syndrome is common in medical intensive care unit patients receiving large-volume resuscitation. *Journal of intensive care medicine*, 22(5), 294-299.
- De Waele, J. J., De Laet, I., & Malbrain, M. L. N. G. (2007). Intraabdominal hypertension and abdominal compartment syndrome: we have paid attention, now it is time to understand!. *Acta Clinica Belgica*, 62(sup1), 6-8.
- Deenichin, G. P. (2008). Abdominal compartment syndrome. *Surgery today*, 38(1), 5-19.
- Fabian, T. C. (2007). Damage control in trauma: laparotomy wound management acute to chronic. *Surgical Clinics*, 87(1), 73-93.
- Gudmundsson, F., Viste, A., Gislason, H., & Svanes, K. (2002). Comparison of different methods for measuring intra-abdominal pressure. *Intensive care medicine*, 28(4), 509-514.
- Huang, Q., Li, J., & Lau, W. Y. (2016). Techniques for abdominal wall closure after damage control laparotomy: from temporary abdominal closure to early/delayed fascial closure – a review. *Gastroenterology research and practice*, 2016.
- Kirkpatrick, A. W., Roberts, D. J., De Waele, J., Jaeschke, R., Malbrain, M. L., De Keulenaer, B., ... & Olvera, C. (2013). Intra-abdominal hypertension and the abdominal compartment syndrome: updated consensus definitions and clinical practice guidelines

- from the World Society of the Abdominal Compartment Syndrome. *Intensive care medicine*, 39(7), 1190-1206.
- Lee, R. K. (2012). Intra-abdominal Hypertension and Abdominal Compartment Syndrome A Comprehensive Overview. *Critical Care Nurse*, 32(1), 19-31.
- Lui, F., Sangosanya, A., & Kaplan, L. J. (2007). Abdominal compartment syndrome: clinical aspects and monitoring. *Critical care clinics*, 23(3), 415-433.
- Maerz, L., & Kaplan, L. J. (2008). Abdominal compartment syndrome. *Critical care medicine*, 36(4), S212-S215.
- Malbrain, M. L. N. G. (1999). Abdominal pressure in the critically ill: measurement and clinical relevance. *Intensive care medicine*, 25(12), 1453.
- Malbrain, M. L., Cheatham, M. L., Kirkpatrick, A., Sugrue, M., Parr, M., De Waele, J., ... & Wilmer, A. (2006). Results from the international conference of experts on intra-abdominal hypertension and abdominal compartment syndrome. I. Definitions. *Intensive care medicine*, 32(11), 1722-1732.
- MAŠEK, M., & ŠRÁMEK, V. (2006). Intra-abdominal Pressure and Perfusion of splanchnic organs following major surgeries in the abdominal cavity. *SCRIPTA MEDICA (BRNO)*, 79(2), 85-92.
- Moore, E. E. (1996). Staged laparotomy for the hypothermia, acidosis, and coagulopathy syndrome. *The American journal of surgery*, 172(5), 405-410.
- Nkomentaba, L. (2016). ABDOMINAL COMPARTMENT SYNDROME.
- Parsak, C. K., Seydaoglu, G., Sakman, G., Acarturk, T. O., Karakoc, E., Hanta, I., ... & Satar, S. (2008). Abdominal compartment syndrome: current problems and new strategies. *World journal of surgery*, 32(1), 13-19.

- Regli, A., De Keulenaer, B., De Laet, I., Roberts, D., Dabrowski, W., & Malbrain, M. (2014). Fluid therapy and perfusional considerations during resuscitation in critically ill patients with intra-abdominal hypertension. *Anaesthesiology intensive therapy*, 47(1), 45-53.
- Sugrue, M. (2005). Abdominal compartment syndrome. *Current opinion in critical care*, 11(4), 333-338.
- Theodossis, S. (2011). Papavramidis, Athanasios D. Marinis, Ioannis Pliakos, Isaak Kesisoglou, and Nicki Papavramidou. Abdominal compartment syndrome-Intra-abdominal hypertension: Defining, diagnosing, and managing.
- Turnbull, D., Webber, S., Hamnegard, C. H., & Mills, G. H. (2007). Intra-abdominal pressure measurement: validation of intragastric pressure as a measure of intra-abdominal pressure. *British journal of anaesthesia*, 98(5), 628-634.
- Walsh, Y. L. (2008). When and how should we measure intra-abdominal pressure?. *Southern African Journal of Critical Care*, 24(2), 61-64.

Daftar Pustaka Trauma Abdomen

- Adams, et al, 2010. Chapter 43 Abdominal Trauma .*Rosen's Emergency Medicine Concepts And Clinical Practice*.Published by Elsevier Inc.
- Álvarez, E. E. T., Holanda, M. S., López-Espadas, F., Dominguez, M. J., Ots, E., & Díaz-Regañón, J. (2004). Gastric rupture from blunt abdominal trauma. *Injury*, 35(3), 228-231.
- Anand, R. J., & Ivatury, R. R. (2014). Surgical Management of Traumatic Colon and Rectal Injuries. *In Trauma Surgery* (pp. 183-199). Springer, Milano.

- Anraku, M., & Shargall, Y. (2009). Surgical conditions of the diaphragm: anatomy and physiology. *Thoracic surgery clinics*, 19(4), 419-429.
- Ben Pansky, Thomas R. Gest 2013. Illustrated Anatomy Thorax Abdomen. *Lippincott's Concise Illustrated Anatomy:Thorax, Abdomen& Pelvis*. Published by Published by Lippincott Williams, a Wolter Kluwer business
- Bendinelli, C., & Yoshino, O. (2014). Surgical treatment of duodenal trauma. In *Trauma Surgery* (pp. 135-149). Springer, Milano.
- Biffi, W. L. (2017). In Moore, E., Feliciano, D., & Mattox, K. Duodenum and Pancreas. *Trauma. 8th ed. New York: McGraw-Hill*, 621-638.
- Biffi, W. L., & Barnett, C. C. (2014). Surgical Treatment of Liver and Biliary Tree Trauma. In *Trauma surgery* (pp. 99-115). Springer, Milano.
- Bruns, B. R., & Kozar, R. A. (2017). In Moore, E., Feliciano, D., & Mattox, K. Liver and Biliary Tract. *Trauma. 8th ed. New York: McGraw-Hill*, 523-38.
- Buccoliero, F., & Ruscelli, P. (2014). Surgical Treatment of Gastric Injury. In *Trauma Surgery* (pp. 163-170). Springer, Milano.
- Burlew, C. C., & Moore, E. E. Trauma. In. Brunicardi, F. C. (2015). *Schwartz's principles of surgery*. Mc Graw Hill. New York.
- Butt, M. U., Zacharias, N., & Velmahos, G. C. (2009). Penetrating abdominal injuries: management controversies. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 17(1), 1-7.
- Chen, G. Q., & Hua, Y. (2011). Management of duodenal trauma. *Chinese Journal of Traumatology (English Edition)*, 14(1), 61-64.
- Condon, R. E., & Nyhus, L. M. (1985). *Manual of surgical therapeutics*. Little Brown and Company.

- Fabian TC, Bee TK (2013) Liver and biliary tract. In: Mattox KL, Moore EE, Feliciano DV (eds) *Trauma*, 7th edn. McGraw-Hill, New York, pp 539-560
- Fraga, G. P., & Rizoli, S. (2014). Trauma Laparotomy. In *Trauma Surgery* (pp. 1-19). Springer, Milano.
- Gonzalez RP, Turk b, Falimirski ME, Holevar Mr. Abdominal Stab Wounds: Diagnostic Peritoneal Lavage Criteria For Emergency Room Discharge. *J trauma* 2001 Nov;51(5):939-43.
- Guilon, F., 2011. Epidemiology of Abdominal Trauma. In :CT of The Acute Abdomen. London: Springer; 15-26.
- Guth, A. A., Pachter, H. L., & Kim, U. (1995). Pitfalls in the diagnosis of blunt diaphragmatic injury. *The American journal of surgery*, 170(1), 5-9.
- Hemilla MR, Wahl WL. Management of the Injured Patient. In: Doherty GM, editor. *Current Surgical Diagnosis and Treatment*. McGraw Hill Medical; 2008. pp 227
- Hermosa JI. R, et al 2008. Gastric Perforation from abdominal trauma. *Dig Surg*.
- Jason Smith, Ian Greaves, Keith M. Porter 2011. Abdominal Trauma. *Oxford Desk Reference Major Trauma*. Published by Oxford University Press, 210.
- Johnsen, N. V., Betzold, R. D., Guillaumondegui, O. D., Dennis, B. M., Stassen, N. A., Bhullar, I., & Ibrahim, J. A. (2017). Surgical management of solid organ injuries. *Surgical Clinics*, 97(5), 1077-1105.
- Keith L. Moore, Arthur F. Dalley, Anne M.R 2014. Anatomy of Abdomen. *Agur. Moore Clinically Oriented Anatomy*. Published by Lippincott Williams, a Wolter Kluwer business, 19.

- Martin, R. S., & Meredith, J.W. (2017). Management of Acute Trauma. In Sabiston Textbook of Surgery, 20th edn, Philadelphia, Elsevier, 408-461.
- Merchea, A., Dozois, E. J., Wang, J. K., & Larson, D. W. (2012). Anatomic mechanisms for splenic injury during colorectal surgery. *Clinical Anatomy*, 25(2), 212-217.
- Mohammad A Gad, Aly Saber, Goda M Ellaban. Incidence, Patterns, and Faktors Predicting Mortality of Abdominal Injuries in Trauma Patients. *N Am J Med Sci*.2012 Mar;4(3):129-134
- Moore, E. E., et al. (1994). ORGAN INJURY SCALING IV: THORACIC VASCULAR, LUNG, CARDIAC, AND DIAPHRAG. *Journal of Trauma and Acute Care Surgery*, 36(3), 299-300.
- Moore, E., Feliciano, D., & Mattox, K. (2017). Trauma laparotomy: principles and techniques. *Trauma*. 8th ed. New York: McGraw-Hill, 523-38.
- Moore, E., Feliciano, D., & Mattox, K. (2017). *Trauma*. 8th ed. New York: McGraw-Hill.
- Muhammad U Butt, Nikolaos Zacharias, and George C Velmahos. Penetrating abdominal Injuries: Management controversies. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine* 2009,17:19.
- Paden M, McGee K, Krung E. Geneva, Switzerland: World Health Organization 2000; 2002. Injury: A leading cause of the global burden of disease.
- Parks, R. W. (2013). Hepatobiliary and pancreatic trauma. *A Companion to Specialist Surgical Practice: Hepatobiliary and Pancreatic Surgery*, 5th edn, Saunders Elsevier, 304-325.

- Parks, R. W. (2013). Hepatobiliary and pancreatic trauma. A *Companion to Specialist Surgical Practice: Hepatobiliary and Pancreatic Surgery*, 5th edn, Saunders Elsevier, 304-325.
- Schuster, K. M., & Davis, K. A. (2017). In Moore, E., Feliciano, D., & Mattox, K. Diaphragm. *Trauma. 8th ed. New York: McGraw-Hill*, 539-549.
- Shah, R., Sabanathan, S., Mearns, A. J., & Choudhury, A. K. (1995). Traumatic rupture of diaphragm. *The Annals of thoracic surgery*, 60(5), 1444-1449.
- Shaikh S.T. The Surgical Anatomy Of Anterior Abdominal Wall. *Int j clin surg adv* 2014;2(4):97-106
- Sharma, D. (2004). Latrogenic splenic injury: Prevention and treatment.
- Sjamsuhidajat, de jong. Buku ajar ilmu bedah.ed.3.Jakarta. EGC; 2010.
- Thal, E. R., Weigelt, J. A., & Carrico, C. J. (Eds.). (2002). *Operative trauma management: an atlas*. McGraw-Hill.
- Uranues, S., & Fingerhut, A. (2014). Laparoscopy for Trauma: When, What, How?. In *Trauma Surgery* (pp. 21-34). Springer, Milano.
- Vishram Singh 2014. Surface Anatomy of The Abdominal Wall. *Textbook of Anatomy: Abdomen And Lower Limb*.Published by Elsevier India Private Limited,75.
- Wibisono, E dan Jeo, W. S., 2014 Trauma Abdomen dalam Tanto, C, Liwang, F, Hanifati, S, Pradipta, EA, editor, *Kapita Selektta Kedokteran*. Edisi 4. Jakarta: Media Aesculapius
- William et al, 2002. Blunt Abdominal Trauma, Evaluation of. *J Trauma* 53(3):602-615.
- Yucel et al, 2014. The management of Penetrating Abdominal Stab Wound with Organ or Omentum Evisceration : The Result of Clinical Trial. *Ulus Cerrahi Derg.* 2014; 30(40):207-210

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BEDAH EMERGENSI

Bidang Digestif

Kegawatdaruratan di bidang digestif merupakan kegawatdaruratan yang sering ditemukan dalam pelayanan emergensi baik di UGD, perawatan maupun kondisi bencana. Kegawatdaruratan di bidang digestif memerlukan diagnosis dan penanganan yang cepat serta tepat untuk menyelamatkan jiwa serta menghasilkan output yang baik.

Kasus Ileus Obstruksi, Sepsis, Peritonitis Generalisata, Abdominal Compartment Syndrome dan Trauma Abdomen merupakan kasus emergensi yang saling berhubungan dan sering ditemukan dalam pelayanan kesehatan. Pemahaman dan keterampilan tentang kasus-kasus tersebut sangat menentukan keberhasilan dalam penanganannya.

Buku ini disusun berdasarkan literatur dan pengalaman klinis penulis sebagai dosen dan dokter spesialis bedah konsultan bedah digestif. Buku Bedah Emergensi Bidang Digestif ini disusun berdasarkan konsep buku ajar yang dapat menjadi acuan dalam belajar dan mengembangkan keilmuan kegawatdaruratan di bidang digestif.

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