

**DAFTAR PUSTAKA**

- Acheampong, A., Vincent, J.L., 2015. A positive fluid balance is an independent prognostic factor in patients with sepsis. *Critical Care*, 19, p.251.
- Alvarez, G.M., Marik, P., Bellomo, R., 2014. Sepsis associated hyperlactatemia. *Critical Care*. 18(5), p.503.
- Álvaro-Meca, A., Jiménez-Sousa, M., Micheloud, D., Sánchez-Lopez, A., Heredia-Rodríguez, M., Tamayo, E. and Resino, S., 2018. Epidemiological trends of sepsis in the twenty-first century (2000–2013): an analysis of incidence, mortality, and associated costs in Spain. *Population Health Metrics*, 16(1).
- Angus, D.C., Poll, T.V., 2013. Severe Sepsis and Septic Shock. *New England Journal Medicine*, 369, pp.840-851.
- De Backer, D., Aldecoa, C., Njimi, H., & Vincent, J. L. 2012. Dopamine versus norepinephrine in the treatment of septic shock: a meta-analysis\*. *Critical care medicine*, 40(3), 725–730.
- Baig, M. A., Sheikh, S., Hussain, E., Bakhtawar, S., Subhan Khan, M., Mujtaba, S., & Waheed, S. 2018. Comparison of qSOFA and SOFA score for predicting mortality in severe sepsis and septic shock patients in the emergency department of a low middle income country. *Turkish journal of emergency medicine*, 18(4), 148–151.
- Bakker, J., Nijsten, M. and Jansen, T., 2013. Clinical use of lactate monitoring in critically ill patients. *Annals of Intensive Care*, 3(1), p.12.
- Brotfain, E., Koyfman, L., Toledano, R., Borer, A., Fucs, L., Galante, O., Frenkel, A., Kutz, R., & Klein, M. 2016. Positive fluid balance as a major predictor of clinical outcome of patients with sepsis/septic shock after ICU discharge. *The American journal of emergency medicine*, 34(11), 2122–2126.
- Buchori, Prihatini, 2006. Sepsis Diagnosis by Procalcitonin. *Indonesian Journal of Clinical Pathology and Medical Laboratory*, 12(3), pp.131-137.
- Cardoso, T., Carneiro, A. H., Ribeiro, O., Teixeira-Pinto, A., & Costa-Pereira, A. 2010. Reducing mortality in severe sepsis with the implementation of a core 6-hour bundle: results from the Portuguese community-acquired sepsis study (SACiUCI study). *Critical care (London, England)*, 14(3), R83.
- Casserly, B., Phillips, G., Schorr, C., Dellinger, R., Townsend, S., Osborn, T., Reinhart, K., Selvakumar, N. and Levy, M., 2015. Lactate Measurements in Sepsis-Induced Tissue Hypoperfusion. *Critical Care Medicine*, 43(3), pp.567-573.

- Chertoff, J., Chisum, M., Garcia, B. and Lascano, J., 2015. Lactate kinetics in sepsis and septic shock: a review of the literature and rationale for further research. *Journal of Intensive Care*, 3(1).
- Damiani, E., Donati, A., Serafini, G., Rinaldi, L., Adrario, E., Pelaia, P., Busani, S., Girardis, M., 2015. Effect of performance improvement programs on compliance with sepsis bundles and mortality: a systematic review and meta-analysis of observational studies. *PLoS One* 10(5), e0125827.
- Ferrer, R., Martin-Loeches, I., Phillips, G., Osborn, T. M., Townsend, S., Dellinger, R. P., Artigas, A., Schorr, C., & Levy, M. M. 2014. Empiric antibiotic treatment reduces mortality in severe sepsis and septic shock from the first hour: results from a guideline-based performance improvement program. *Critical care medicine*, 42(8), 1749–1755.
- Ferreira, F. L., Bota, D. P., Bross, A., Mélot, C., & Vincent, J. L. 2001. Serial evaluation of the SOFA score to predict outcome in critically ill patients. *JAMA*, 286(14), 1754–1758.
- Gatta, A., Verardo, A., & Bolognesi, M., 2012. Hypoalbuminemia. *Intern Emerg Med*, 7(3), pp.193-199.
- Gu, W.J., Zhang, Z., Bakker, J., 2015. Early lactate clearance-guided therapy in patients with sepsis: a meta-analysis with trial sequential analysis of randomized controlled trials. *Intensive Care Med*, 41(10), pp.1862–1863.
- Guyton, A.C., 2010, *Guyton and Hall Text book of Medical Physiology*. 13<sup>th</sup> ed., New York: Saunders Elsevier, pp1214-1256.
- Haase, N., Perner, A., Hennings, L.I., Siegemund, M., Lauridsen, B., Wetterslev, M., Wetterslev, J., 2013. Hydroxyethyl starch 130/0.38-0.45 versus crystalloid or albumin in patients with sepsis: systematic review with meta-analysis and trial sequential analysis. *BMJ*, 346, f839.
- Hajj, J., Blaine, N., Salavaci, J. and Jacoby, D., 2018. The “Centrality of Sepsis”: A Review on Incidence, Mortality, and Cost of Care. *Healthcare*, 6(3), p.90.
- Holmes, C.L., Walley, K.R., Chittock, D.R., Lehman, T., Russell, J.A., 2001. The effects of vasopressin on hemodynamics and renal function in severe septic shock: a case series. *Intensive Care Med*, 27(8), p.1416–142.
- Jansen, T.C., Van Bommel, J., Schoonderbeek, F.J., Sleswijk, Visser, S.J., van der Klooster, J.M., Lima, A.P., Willemsen, S.P., Bakker, J., 2010. Early Lactate-Guided Therapy in Intensive Care Unit Patients. *American Journal of Respiratory and Critical Care Medicine*, 182(6), pp.752–761.
- Knaus, W.A., Wagner, D.P., 1990. Selection bias and the relationship between apache ii and mortality. *Critical Care Medicine*, 18, pp.793–795.

- Larry J., 2018. Harrison's principles of internal medicine. New York McGraw-Hill Education.
- Lauzier, F., Levy, B., Lamarre, P., Lesur, O., 2006. Vasopressin or norepinephrine in early hyperdynamic septic shock: a randomized clinical trial. *Intensive Care Med*, 32(11), pp.1782–1789.
- Levy, B., 2006. Lactate and shock state: the metabolic view. *Crit Care*, 12, pp.315-21.
- Levy, M.M., Evans, L.E. & Rhodes, A., 2018. The Surviving Sepsis Campaign Bundle: 2018 update. *Intensive Care Medicine*, 44(6), pp.925–928.
- Lichtenauer, M., Wernly, B., Ohnewein, B., Franz, M., Kabisch, B., Muessig, J., Masyuk, M., Lauten, A., Schulze, P., Hoppe, U., Kelm, M. and Jung, C., 2017. The Lactate/Albumin Ratio: A Valuable Tool for Risk Stratification in Septic Patients Admitted to ICU. *International Journal of Molecular Sciences*, 18(9), p.1893.
- Liu, X., Shen, Y., Li, Z., Wang, H., Ge, Q., Pan, S., 2015. Prognostic significance of APACHE II score and plasma suPAR in Chinese patients with sepsis: a prospective observational study. *BMC Anesthesiology*, 16(1).
- Liu, Z., Meng, Z., Li, Y., Zhao, J., Wu, S., Gou, S. and Wu, H., 2019. Prognostic accuracy of the serum lactate level, the SOFA score and the qSOFA score for mortality among adults with Sepsis. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*,
- Martin, C., Viviani, X., Leone, M., Thirion, X., 2000. Effect of norepinephrine on the outcome of septic shock. *Crit Care Med*, 28(8), pp.2758–2765.
- Martin, G., Mannino, D. and Moss, M., 2006. The effect of age on the development and outcome of adult sepsis. *Critical Care Medicine*, 34(1), pp.15-21.
- Martin, G., Mannino, D., Eaton, S. and Moss, M., 2003. The Epidemiology of Sepsis in the United States from 1979 through 2000. *New England Journal of Medicine*, 348(16), pp.1546-1554.
- Moustafa, A.A., Antonios, M.A., Abdellatif, E. M., & Hussain, A. H. 2018. Association of lactate/albumin ratio level to organ failure and mortality in severe sepsis in a pediatric intensive care unit in Egypt. *The Turkish journal of pediatrics*, 60(6), 691–701.
- Nasir, N., Jamil, B., Siddiqui, S., Iqbal, N., Khan, F. and Hussain, R., 2015. Mortality in Sepsis and its relationship with gender. *Pakistan Journal of Medical Sciences*, 31(5).

- Phua, J., Koh, Y., Du, B., Tang, Y., Divatia, J., Tan, C., Gomersall, C., Faruq, M., Shrestha, B., Gia Binh, N., Arabi, Y., Salahuddin, N., Wahyuprajitno, B., Tu, M., Wahab, A., Hameed, A., Nishimura, M., Procyshyn, M. and Chan, Y., 2011. Management of severe sepsis in patients admitted to Asian intensive care units: prospective cohort study. *BMJ*, 342(jun13 1), pp. d3245-d3245.
- Pirillo, A., Catapano, A.L., Norata, G.D., 2014. HDL in Infectious Diseases and Sepsis. *High Density Lipoproteins Handbook of Experimental Pharmacology*, pp.483–508.
- Ravi, K., Vinay, K., Akhila, R.K., 2019. Study of spectrum of sepsis and prediction of its outcome in patients admitted to ICU using different scoring systems. *Int J Adv Med*, 6(1), pp.155-159.
- Rhodes, A., Evans, L. E., Alhazzani, W., Levy, M. M., Antonelli, M., Ferrer, R., Kumar, A., Sevransky, J. E., Sprung, C. L., Nunnally, M. E., Rochwerg, B., Rubenfeld, G. D., Angus, D. C., Annane, D., Beale, R. J., Bellingham, G. J., Bernard, G. R., Chiche, J. D., Coopersmith, C., De Backer, D. P., ... Dellinger, R. P., 2017. Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock: 2016. *Intensive care medicine*, 43(3), 304–377.
- Rochwerg, B., Alhazzani, W., Sindi, A., Heels-Ansdell, D., Thabane, L., Fox-Robichaud, A., Mbuagbaw, L., Szczeklik, W., Alshamsi, F., Altayyar, S., Ip, W. C., Li, G., Wang, M., Wludarczyk, A., Zhou, Q., Guyatt, G. H., Cook, D. J., Jaeschke, R., Annane, D., & Fluids in Sepsis and Septic Shock Group 2014. Fluid resuscitation in sepsis: a systematic review and network meta-analysis. *Annals of internal medicine*, 161(5), 347–355.
- Shin, J., Hwang, S., Jo, I., Kim, W., Ryoo, S., Kang, G., Kim, K., Jo, Y., Chung, S., Joo, Y., Beom, J., Yoon, Y., Han, K., Lim, T., Choi, H., Kwon, W., Suh, G., Choi, S. and Shin, T., 2018. Prognostic Value of The Lactate/Albumin Ratio for Predicting 28-Day Mortality in Critically ILL Sepsis Patients. *SHOCK*, 50(5), pp.545-550.
- Singer, M., Deutschman, C., Seymour, C., Shankar-Hari, M., Annane, D., Bauer, M., Bellomo, R., Bernard, G., Chiche, J., Coopersmith, C., Hotchkiss, R., Levy, M., Marshall, J., Martin, G., Opal, S., Rubenfeld, G., van der Poll, T., Vincent, J. and Angus, D., 2016. The Third International Consensus Definitions for Sepsis and Septic Shock (Sepsis-3). *JAMA*, 315(8), p.801.
- Stoller, J., Halpin, L., Weis, M., Aplin, B., Qu, W., Georgescu, C. and Nazzari, M., 2016. Epidemiology of severe sepsis: 2008-2012. *Journal of Critical Care*, 31(1), pp.58-62.

- Takegawa, R., Kabata, D., Shimizu, K., Hisano, S., Ogura, H., Shintani, A. and Shimazu, T., 2019. Serum albumin as a risk factor for death in patients with prolonged sepsis: An observational study. *Journal of Critical Care*, 51, pp.139-144.
- Thapa, S., Prasad, P., & Shakya, Y. 2017. Serum Lactate Albumin Ratio as a Predictor of Mortality in Severe Sepsis and Septic Shock at Tribhuwan University Teaching Hospital, Kathmandu. *Birat Journal of Health Sciences*, 2(2), 191-195.
- Trzeciak, S., Dellinger, R.P., Chansky, M.E., Arnold, R.C., Schorr, C., Milcarek, B., Hollenberg, S.M., Parrillo, J.E., 2007. Serum lactate as a predictor of mortality in patients with infection. *Intensive Care Medicine*, 33(6), pp.970–977.
- Utariani, A., Rahardjo, E. and Perdanakusuma, D., 2020. Effects of Albumin Infusion on Serum Levels of Albumin, Proinflammatory Cytokines (TNF- $\alpha$ , IL-1, and IL-6), CRP, and MMP-8; Tissue Expression of EGRF, ERK1, ERK2, TGF- $\beta$ , Collagen, and MMP-8; and Wound Healing in Sprague Dawley Rats. *International Journal of Inflammation*, 2020, pp.1-13.
- Utariani, A., Prasetyo, B., Nugraha, J., 2017. Correlation Between The Use Of Albumin Infusion And Concentration Of Serum Albumin, Proinflammatory Cytokines (TNF-a, IL-6) And Sofa Score In Septic Patients. *Folia medica indonesia*, vol. 52(4), pp 310-315.
- Utariani, A., Semedi, B.P., Anestesia, R., 2019. Analysis of sepsis and septic shock 3-hour and 6-hour management at resuscitation room in dr soetomo general hospital. *Critical care shock*, 22(3), pp.122-130.
- Valenza, F., Aletti, G., Fossali, T., Chevillard, G., Sacconi, F., Irace, M., Gattinoni, L., 2005. Lactate as a marker of energy failure in critically ill patients: hypothesis. *Crit Care*, 9(6), pp.588-93.
- Vincent, J., de Mendonca, A., Cantraine, F., Moreno, R., Takala, J., Suter, P., Sprung, C., Colardyn, F. and Blecher, S., 1998. Use of the SOFA score to assess the incidence of organ dysfunction/failure in intensive care units. *Critical Care Medicine*, 26(11), pp.1793-1800.
- Vincent, J.L., Russell, J.A., Jacob, M., Martin, G., Guidet, B., Wernerman, J., Roca, R.F., McCluskey, S.A., Gattinoni, L., 2014. *Albumin administration in the acutely ill: what is new and where next*. *Critical Care*, 18, p.231.
- Wang, B., Chen, G., Cao, Y., Xue, J., Li, J., Wu, Y. 2015. Correlation of lactate/albumin ratio level to organ failure and mortality in severe sepsis and septic shock. *J. Crit. Care*. 30, 271–275.

Walley, K.R., Francis, G.A., Opal, S.M., Stein, E.A., Russell, J.A., Boyd, J.H., 2015. The Central Role of Proprotein Convertase Subtilisin/Kexin Type 9 in Septic Pathogen Lipid Transport and Clearance. *Am J Respir Critical Care Medicine*. 192(11), pp.1275–1286.

Zhou, S.X., Qiu, H.B., Huang, Y.Z., Yang, Y., Zheng, R.Q., 2002. Effects of norepi- nephine, epinephrine, and norepinephrine-dobutamine on systemic and gastric mucosal oxygenation in septic shock. *Acta Pharmacol Sin*, 23(7), pp.654–658.