

DAFTAR PUSTAKA

- Adegbite, B.R. *et al.* (2021) ‘A comparison of different scores for diagnosis and mortality prediction of adults with sepsis in low-and-middle-income countries: A systematic review and meta-analysis’, *eClinicalMedicine*, 42, p. 101184. doi:10.1016/j.eclinm.2021.101184.
- Albee, Prasad, A., Tripathi, T., and Khan, M.J., (2022) Lactate albumin ratio in comparison with lactate to predict outcomes in sepsis and septic shock. *International Journal of Science and Research*, 12(3). <https://doi.org/10.21275/MR23315193436>
- Altun, G. *et al.* (2022) ‘Prognostic value of the lactate–albumin difference for predicting in-hospital mortality in critically ill patients with sepsis’, *Marmara Medical Journal*, 35(1), pp. 61–66. doi:10.5472/marumj.1059093.
- Arora, J., Mendelson, A.A. and Fox-Robichaud, A. (2023) ‘Sepsis: Network pathophysiology and implications for early diagnosis’, *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*, 324(5). <https://doi.org/10.1152/ajpregu.00003.2023>.
- Baihaqi, F.A., Delarosa, D.O. and Ramadhan, R. (2022) ‘Rasio laktat/Albumin Sebagai prediktor mortalitas Pada pasien dengan sepsis Dan Syok sepsis: Studi meta-analisis’, *Jurnal Penyakit Dalam Indonesia*, 9(3), p. 146. doi:10.7454/jpdi.v9i3.718.
- Bou Chebl, R., El Khuri, C., Shami, A., Rajha, E., Faris, N., Bachir, R. and Abou Dagher, G., (2017) Serum lactate is an independent predictor of hospital mortality in critically ill patients in the emergency department: a retrospective study. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, 25(1). <https://doi.org/10.1186/s13049-017-0415-8>
- Bou Chebl, R. *et al.* (2020) ‘Lactate/albumin ratio as a predictor of in-hospital mortality in septic patients presenting to the Emergency Department’, *Frontiers in Medicine*, 7. doi:10.3389/fmed.2020.550182.
- Bou Chebl, R. *et al.* (2021) ‘The prognostic value of the lactate/albumin ratio for predicting mortality in septic patients presenting to the Emergency Department: A prospective study’, *Annals of Medicine*, 53(1), pp. 2268–2277. doi:10.1080/07853890.2021.2009125.
- Chen, X. *et al.* (2021) “Clinical value of the lactate/albumin ratio and lactate/albumin ratio \times age score in the assessment of prognosis in patients with sepsis,” *Frontiers in Medicine*, 8. <https://doi.org/10.3389/fmed.2021.732410>.
- CDC (2019). Principles of Epidemiology. [online] CDC. Available at: <https://www.cdc.gov/csels/dsepd/ss1978/lesson3/section2.html>.
- Donaliazarti (2022) ‘Peran Laktat Pada Sepsis Dan Pemeriksaan Laboratoriumnya’, *Scientific Journal*, 1(4), pp. 269–277. <https://doi.org/10.56260/sciena.v1i4.53>.
- Erdoğan, M. and Findikli, H.A. (2022) ‘Prognostic value of the lactate/albumin ratio for predicting mortality in patients with PNEUMOSEPSIS in Intensive Care Units’, *Medicine*, 101(4). <https://doi.org/10.1097/md.00000000000028748>.
- Evans, L., Rhodes, A., Alhazzani, W., Antonelli, M., Coopersmith, C. M., French, C., Machado, F. R., McIntyre, L., Ostermann, M., & Prescott, H. C. (2021). Surviving sepsis campaign: international guidelines for management of sepsis and septic shock 2021. *Intensive Care Medicine*, 47(11), 1181–1247.

Devaraj, S. and M Wheeler, T. (2020). Albumin: Reference Range, Interpretation, Collection and Panels. eMedicine, [online] Updated: Jan 13, 2015(0). Available at: <https://emedicine.medscape.com/article/2054430-overview#a4>.

Filho, R.R. *et al.* (2016) ‘Blood lactate levels cutoff and mortality prediction in sepsis—time for a reappraisal? A retrospective cohort study’, *Shock*, 46(5), pp. 480–485. <https://doi.org/10.1097/shk.0000000000000667>.

Gyawali, B., Ramakrishna, K. and Dhamoon, A.S. (2019) “Sepsis: The evolution in definition, pathophysiology, and management,” *SAGE Open Medicine*, 7, pp.1-13. doi:10.1177/2050312119835043.

Hernandez JB and Kim PY. Epidemiology morbidity and mortality. StarPearls Publishing. 2020:1-5. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK547668/>

Hosizah dan Yati Maryati. (2018). Sistem Informasi Kesehatan II Statistik Pelayanan Kesehatan. Jakarta: Kemenkes RI.

Huang, T. and Lin, S. (2024) ‘Usefulness of lactate to albumin ratio for predicting in-hospital mortality in atrial fibrillation patients admitted to the Intensive Care Unit: A retrospective analysis from Mimic-IV database’, *BMC Anesthesiology*, 24(1). doi:10.1186/s12871-024-02470-4.

Irvan, I., Febyan, F. and Suparto, S. (2018) ‘Sepsis Dan Tata Laksana Berdasar guideline terbaru’, *JAI (Jurnal Anestesiologi Indonesia)*, 10(1), p. 62. <https://doi.org/10.14710/jai.v10i1.20715>.

Khuman, K., Sheth, V. and Parmar, R. (2024) ‘Serial evaluation of SOFA score for predicting outcome in critically ill patients admitted in medical ICU’, *GLOBAL JOURNAL FOR RESEARCH ANALYSIS*, pp. 6–8. <https://doi.org/10.36106/gjra/3600370>.

Kruse, J.A. (2011) ‘Blood Lactate Concentrations in Sepsis’, *The Sepsis Text*, pp. 323–338. https://doi.org/10.1007/0-306-47664-9_18.

Lichtenauer, M., Wernly, B., Ohnewein, B., Franz, M., Kabisch, B., Muessig, J., Masyuk, M., Lauten, A., Schulze, P. C., Hoppe, U. C., Kelm, M., & 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), 1–9. <https://doi.org/10.3390/ijms18091893>.

Makram, E., Ibrahim, M., Abdel Rahman, A. and Aboraya, K., (2020) Serum Lactate/Albumin Ratio as a Predictor Of Morbidity and Mortality In Patients with Severe Sepsis and Septic Shock. *Benha Medical Journal*, pp.0-0. <https://doi.org/10.21608/bmfj.2020.19931.1171>

Mourya, V., Gupta, R., Yadav, A. and Yadav, K., (2023) Lactate/Albumin Ratio as Prognostic Tool for Risk Stratification in Septic Patients Admitted to ICU. *Critical Care Innovations Journal*, pp.11-22. <https://doi.org/10.32114/CCI.2023.6.4.11.22>

Munford RS, 2011, Severe Sepsis and Septic Shock in Harrison’s Principles of Internal Medicine 18 th Edition, Editor : Kasper DL, Braunwald E, Fauci AS, Hauser SL, Longo DL, Jameson JL, Mc Graw Hill : USA, pp : 1606- 11.

Prasad, A., Tripathi, T., & Khan, M. J. (2023). *Lactate Albumin Ratio in Comparison with Lactate to Predict Outcomes in Sepsis and Septic Shock*. 12(3), 2022–2024. doi:10.21275/MR23315193436

Purwanto, D.S. and Astrawinata, D.A.W. (2018) 'Mekanisme kompleks sepsis Dan Syok Septik', *JURNAL BIOMEDIK (JBM)*, 10(3), p. 143. <https://doi.org/10.35790/jbm.10.3.2018.21979>.

Qian Song-Zan, Jin Duo, Ye Yin-Cai, Xiang Wei-Wei, Ye Lian-Min, & Pan Jing-Ye. (2019), "Hypoalbuminemia, a novel prognostic factor for prediction of long-term outcomes in critically ill patients with septic shock". *Int J Clin Exp Med*, 12(6), 7401–7409. <https://e-century.us/files/ijcem/12/6/ijcem0093544.pdf>

Seo, M.H., Choa, M., You, J.S., Lee, H.S., Hong, J.H., Park, Y.S., Chung, S.P. and Park, I., (2016) Hypoalbuminemia, Low Base Excess Values, and Tachypnea Predict 28-Day Mortality in Severe Sepsis and Septic Shock Patients in the Emergency Department. *Yonsei Medical Journal*, 57(6), p.1361.

Seymour, C.W. *et al.* (2016) 'Assessment of Clinical Criteria for Sepsis', *JAMA*, 315(8), p. 762. <https://doi.org/10.1001/jama.2016.0288>.

Shadvar, K., Nader-Djalal, N., Vahed, N., Sanaie, S., Iranpour, A., Mahmoodpoor, A., Vahedian-Azimi, A., Samim, A., & Rahimi-Bashar, F. (2022) "Comparison of lactate/albumin ratio to lactate and lactate clearance for predicting outcomes in patients with septic shock admitted to intensive care unit: an observational study". *Scientific Reports*, 12(1), 1–12. doi:10.1038/s41598-022-14764-z

Shin, J., Hwang, S.Y., Jo, I.J., Kim, W.Y., Ryoo, S.M., Kang, G.H., Kim, K., Jo, Y.H., Chung, S.P., Joo, Y.S., Beom, J.H., Yoon, Y.H., Han, K.S., Lim, T.H., Choi, H.S., Kwon, W.Y., Suh, G.J., Choi, S.-H. and Shin, T.G., (2018) "Prognostic Value of The Lactate/Albumin Ratio for Predicting 28-Day Mortality in Critically ILL Sepsis Patients." *Shock*, 50(5), pp.545-550. <https://doi.org/10.1097/SHK.0000000000001128>

Singer, M., Clifford, S., Seymour C. W., Hari, M. S., Annane, D., Bauer, M., Bellomo, R., Bernard, G. R., & Bellomo, R. (2016). The Third International Consensus Definitions for Sepsis and Septic Shock (Sepsis-3). *Journal of American Medical Association* (Vol. 315, Issue 8, pp. 801–810). <https://doi.org/10.1001/jama.2016.0287> *Global report on the epidemiology and burden of sepsis: Current evidence, identifying gaps and future directions* (2020) *World Health Organization*. Available at: <https://apps.who.int/iris/handle/10665/334216> (Accessed: 17 Januari 2023).

Sinto, R. (2017) 'Pemeriksaan Kadar Laktat pada Tata Laksana Sepsis: Apakah Benar Diperlukan?', *Jurnal Penyakit Dalam Indonesia*, 3(1), p. 1. <https://doi.org/10.7454/jpdi.v3i1.1>.

Sun, J.-K. *et al.* (2015) 'Risk factors and prognosis of hypoalbuminemia in surgical septic patients', *PeerJ*, 3. <https://doi.org/10.7717/peerj.1267>.

Thapa, S., Prasad, P., & Shakya, Y. (2017). Serum Lactate Albumin Ratio as a Predictor of Mortality in Severe Sepsis and Septic Shock at Tribhuvan University Teaching Hospital, Kathmandu. *Birat Journal of Health Sciences*, 2(2), 191–195. <https://doi.org/10.3126/bjhs.v2i2.18525>

Vincent, J.-L. *et al.* (2014) 'Albumin administration in the acutely ill: What is new and where next?', *Critical Care*, 18(4), p. 231. <https://doi.org/10.1186/cc13991>.

Yoon, S., Choi, B., Eun, S., Bae, G., Koo, C., Kim, M. (2022). "Using the Lactate-to-Albumin Ratio to Predict Mortality in Patients with Sepsis or Septic Shock : A Systematic Review and Meta-Analysis" *European Review for Medical and Pharmacological Sciences*, 26, p. 1743-1752. https://doi.org/10.26355/eurev_202203_28244



UNIVERSITAS
GADJAH MADA

**Hubungan Rasio Laktat Albumin terhadap Mortalitas dan Lama Rawat pada Pasien Sepsis di ICU
RSUP Dr
Sardjito**

Desti Pasmawati, dr. Calcarina Fitriani RW, SpAn-TI, Subsp.TI(K) ; dr. Bowo Adiyanto, M.Sc, SpAn-TI, Subsp.TI(K)

Universitas Gadjah Mada, 2024 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Yucel, K. and Gurbuz, A. (2021) "The effect of lactate/albumin ratio on mortality in patients with sepsis," *Medicine Science / International Medical Journal*, 10(3), pp. 939–945. doi:10.5455/medscience.2021.06.204.

World Health Organisation. (2020). Global report on the epidemiology and burden of sepsis: current evidence, identifying gaps and future directions. In *World Health Organization*. <http://apps.who.int/bookorders.9789240010789-eng.pdf>