

DAFTAR PUSTAKA

1. Bradley Z, Bhalla N. Point-of-care diagnostics for sepsis using clinical biomarkers and microfluidic technology. *Biosens Bioelectron.* 2023 May 1;227:115181.
2. WHO. Sepsis [Internet]. 2023 [cited 2024 Feb 25]. Available from: <https://www.who.int/news-room/fact-sheets/detail/sepsis>
3. Kahar LA. Hubungan Antara Polimorfisme Lokus rs7041, rs4588 Pada Gen Reseptor Protein Pengikat Vitamin D dan Status Vitamin D Dengan Mortalitas Pasien Sepsis (Disertasi). Padang: Fakultas Kedokteran Universitas Andalas; 2023.
4. Sweeney,Timothy E. Liesenfelda O and ML. Diagnosis of bacterial sepsis: why are tests for bacteremia not sufficient? *Expert Review of Molecular Diagnostic.* 2019;19(11):959–62.
5. Denny KJ, Lea RA, Lindell-Innes R, Haupt LM, Heffernan AJ, Harvey NR, et al. Diagnosing sepsis in the ICU: Comparison of a gene expression signature to pre-existing biomarkers. *Journal of Critical Care.* 2023 Aug 1;76:154286.
6. Yin WP, Li JB, Zheng XF, An L, Shao H, Li CS. Effect of neutrophil CD64 for diagnosing sepsis in emergency department. *World Journal of Emergency Medicine.* 2020;11(2):79–86.
7. Cong S, Ma T, Di X, Tian C, Zhao M, Wang K. Diagnostic value of neutrophil CD64, procalcitonin, and interleukin-6 in sepsis: a meta-analysis. *BMC Infectious Diseases.* 2021 Apr;21(1):384.
8. Huang N, Chen J, Wei Y, Liu Y, Yuan K, Chen J, et al. Multi-marker approach using C-reactive protein, procalcitonin, neutrophil CD64 index for the prognosis of sepsis in intensive care unit: a retrospective cohort study. *BMC Infectious Diseases.* 2022 Jul;22(1):662.
9. Pierrickos C, Velissaris D, Bisdorff M, Marshall JC, Vincent JL. Biomarkers of sepsis: Time for a reappraisal. *Critical Care.* 2020;24(1):1–15.
10. de Fraiture EJ, Vrisekoop N, Leenen LPH, van Wessem KJP, Koenderman L, Hietbrink F. Longitudinal assessment of the inflammatory response: The next step in personalized medicine after severe trauma. *Frontiers in Medicine.* 2022;9:983259.
11. Gao Y, Lin L, Zhao J, Peng X, Li L. Neutrophil CD64 index as a superior indicator for diagnosing, monitoring bacterial infection, and evaluating antibiotic therapy: a case control study. *BMC Infectious Diseases.* 2022 Nov;22(1):892.
12. Pham HM, Nguyen DLM, Duong MC, Tran LT, Pham TTN. Diagnostic Value of Neutrophil CD64 in Sepsis Patients in the Intensive Care Unit: A Cross-Sectional Study. *Diagnostics (Basel, Switzerland).* 2023 Apr;13(8).
13. Kilinc Toker A, Kose S, Turken M. Comparison of SOFA Score, SIRS, qSOFA, and qSOFA + L Criteria in the Diagnosis and Prognosis of Sepsis. *The Eurasian Journal of Medicine.* 2021 Feb;53(1):40–7.
14. Ye Z, Zou H, Liu S, Mei C, Chang X, Hu Z, et al. Diagnostic performance of neutrophil CD64 index in patients with sepsis in the intensive care unit. *The Journal of International Medical Research.* 2019 Sep;47(9):4304–11.

15. Purba AKR, Mariana N, Aliska G, Wijaya SH, Wulandari RR, Hadi U, et al. The burden and costs of sepsis and reimbursement of its treatment in a developing country: An observational study on focal infections in Indonesia. *International Journal of Infectious Diseases.* 2020;96:211–8.
16. Cleveland Clinic. Sepsis [Internet]. 2023 [cited 2024 May 25]. Available from: <https://my.clevelandclinic.org/health/diseases/12361-sepsis>
17. Mahapatra S, Heffner AC. Septic Shock. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jun 12 [cited 2025 Jan]. Available from: <http://www.ncbi.nlm.nih.gov/books/NBK534813/>
18. Jarczak D, Kluge S, Nierhaus A. Sepsis-Pathophysiology and Therapeutic Concepts. *Frontiers in Medicine.* 2021;8:628302.
19. Arora J, Mendelson AA, Fox-Robichaud A. Sepsis: network pathophysiology and implications for early diagnosis. *American Journal of Physiology* [Internet]. 2023 Mar 6;324(5):R613–24. Available from: <https://doi.org/10.1152/ajpregu.00003.2023>
20. Arina P, Singer M. Pathophysiology of sepsis. *Current Opinion in Anaesthesiology.* 2021;34(2):77–84.
21. Guirgis F, Black LP, DeVos EL. Updates and controversies in the early management of sepsis and septic shock. *Emergency Medicine Practice.* 2018 Oct;20(10):1–28.
22. Schmidt GA, Mandel J. Evaluation and management of severe sepsis and septic shock in adults. *2024;1–22.*
23. Huang M, Cai S, Su J. The Pathogenesis of Sepsis and Potential Therapeutic Targets. *International Journal of Molecular Sciences.* 2019 Oct;20(21).
24. Holtrop T, Budding K, Brandsma AM, Leusen JHW. Targeting the high affinity receptor, Fc γ RI, in autoimmune disease, neuropathy, and cancer. *Immunotherapy Advances.* 2022;2(1).
25. Guo P, Wang R, Shen J, Zhang L, Mo W. Identification of Key Inflammation-related Genes as Potential Diagnostic Biomarkers of Sepsis. *Alternative Therapies in Health and Medicine.* 2023 Jul;29(5):24–31.
26. Bourgoin P, Biéchelé G, Ait Belkacem I, Morange PE, Malergue F. Role of the interferons in CD64 and CD169 expressions in whole blood: Relevance in the balance between viral- or bacterial-oriented immune responses. *Immunity, Inflammation and Disease.* 2020;8(1):106-123.
27. Hashem HE, Abdel Halim RM, El Masry SA, Mokhtar AM, Abdelaal NM. The Utility of Neutrophil CD64 and Presepsin as Diagnostic, Prognostic, and Monitoring Biomarkers in Neonatal Sepsis. *International Journal of Microbiology.* 2020;2020:8814892.
28. Wang Y, Jönsson F. Expression, role, and regulation of neutrophil Fc γ receptors. *Frontiers in Immunology.* 2019;10:1–13.
29. Martínez ML, Plata-Menchaca EP, Ruiz-Rodríguez JC, Ferrer R. An approach to antibiotic treatment in patients with sepsis. *Journal of Thoracic Disease.* 2020;12(3):1007–21.
30. Strich JR, Heil EL, Masur H. Considerations for empiric antimicrobial therapy in sepsis and septic shock in an era of antimicrobial resistance. *The Journal of Infectious Diseases.* 2021;222(Suppl 2):S119–31.
31. Tićac M, Grubić Kezele T, Bubonja Šonje M. Impact of Appropriate

- Empirical Antibiotic Treatment on the Clinical Response of Septic Patients in Intensive Care Unit: A Single-Center Observational Study. *Antibiotics*. 2024;13(6):1–13.
- 32. Rani D, Kumari V, Kumari S, Prakash S. Prognostic Value Of Apache II Score, Sofa Score And Biomarkers In Patients Of Sepsis And Septic Shock—A Comparative Study. *International Journal of Academic Medicine dan Pharmacy*. 2023;5(4):649–654.
 - 33. Hakim LN. Urgensi revisi undang-undang tentang kesejahteraan lanjut usia. *Jurnal Masalah-Masalah Sosial*. 2020;17(6).
 - 34. OriGene Technologies I. CD64 (FCGR1A) Human qPCR Primer Pair [Internet]. USA; 2024 [cited 2024 Mar 16]. Available from: <https://www.origene.com/catalog/gene-expression/qpcr-primer-pairs/hp200536-cd64-fcgr1a-human-qpcr-primer-pair-nm-000566>
 - 35. Mandal L, Rijal G, Singh R, Tiwari B, Jahan F, Lama D, et al. Sepsis among patients admitted to the intensive care unit of a tertiary care centre. *JNMA: Journal of Nepal Medical Association*. 2023;61(265):691.
 - 36. Michels EH, Butler JM, Reijnders TD, Cremer OL, Scicluna BP, Uhel F, et al. Association between age and the host response in critically ill patients with sepsis. *Critical Care*. 2022;26(1):385.
 - 37. Liu F, Yao J, Liu C, Shou S. Construction and validation of machine learning models for sepsis prediction in patients with acute pancreatitis. *BMC Surgery*. 2023;23(1):267.
 - 38. Rowe TA, McKoy JM. Sepsis in older adults. *Infectious Disease Clinics*. 2017;31(4):731–742.
 - 39. Thompson KJ, Finfer SR, Woodward M, Leong RNF, Liu B. Sex differences in sepsis hospitalisations and outcomes in older women and men: a prospective cohort study. *Journal of Infection*. 2022;84(6):770–776.
 - 40. Kondo Y, Miyazato A, Okamoto K, Tanaka H. Impact of Sex Differences on Mortality in Patients With Sepsis After Trauma: A Nationwide Cohort Study. *Frontiers in Immunology*. 2021;12:678156.
 - 41. Xu J, Tong L, Yao J, Guo Z, Lui KY, Hu X, et al. Association of sex with clinical outcome in critically ill sepsis patients: a retrospective analysis of the large clinical database MIMIC-III. *Shock*. 2019;52(2):146–151.
 - 42. Mewes C, Runzheimer J, Böhnke C, Büttner B, Hinz J, Quintel M, Mansur A. Association of sex differences with mortality and organ dysfunction in patients with sepsis and septic shock. *Journal of Personalized Medicine*. 2023;13(5):836.
 - 43. Peerapornratana S, Manrique-Caballero CL, Gomez H, Kellum JA. Acute kidney injury from sepsis: current concepts, epidemiology, pathophysiology, prevention and treatment. *Kidney International*. 2019;96(5):1083–1099.
 - 44. Kang C, Choi S, Jang EJ, Joo S, Jeong JH, Oh SY, et al. Prevalence and outcomes of chronic comorbid conditions in patients with sepsis in Korea: a nationwide cohort study from 2011 to 2016. *BMC Infectious Diseases*. 2024;24(1):184.
 - 45. Thomas-Rüddel DO, Fröhlich H, Schwarzkopf D, Bloos F, Riessen R. Sepsis and underlying comorbidities in intensive care unit patients: Analysis of the cause of death by different clinicians—a pilot study.

- Medizinische Klinik-Intensivmedizin und Notfallmedizin. 2024;119(2):123-128.
46. Wang D, Sun T, Liu Z. Sepsis-associated acute kidney injury. *Intensive Care Research*. 2023;3(4):251-258.
47. Chang YM, Chou YT, Kan WC, Shiao CC. Sepsis and acute kidney injury: a review focusing on the bidirectional interplay. *International Journal of Molecular Sciences*. 2022;23(16):9159.
48. Grylls A, Seidler K, Neil J. Link between microbiota and hypertension: Focus on LPS/TLR4 pathway in endothelial dysfunction and vascular inflammation, and therapeutic implication of probiotics. *Biomed Pharmacother*. 2021 May;137:111334.
49. Jiang L, Cheng M. Impact of diabetes mellitus on outcomes of patients with sepsis: an updated systematic review and meta-analysis. *Diabetology & Metabolic Syndrome*. 2022 Mar;14(1):39.
50. Costantini E, Carlin M, Porta M, Brizzi MF. Type 2 diabetes mellitus and sepsis: state of the art, certainties and missing evidence. *Acta Diabetologica*. 2021 Sep;58(9):1139-51.
51. Triana Yudhorini L. Evaluasi Penggunaan Antibiotik Pada Pasien Sepsis dengan COVID-19 di Rumah Sakit Umum Pusat Fatmawati Jakarta Periode Januari – Desember 2021. *Jurnal Farmasi Klinik Best Practice*. 2022;1(1):1–13.
52. Madkour AM, ELMaraghy AA, Elsayed MM. Prevalence and outcome of sepsis in respiratory intensive care unit. *The Egyptian Journal of Bronchology*. 2022;16(1):29.
53. Abu-Humaidan AHA, Ahmad FM, Al-Binni MA, Bani Hani A, Abu Abeeleh M. Characteristics of Adult Sepsis Patients in the Intensive Care Units in a Tertiary Hospital in Jordan: An Observational Study. *Critical Care Research and Practice*. 2021;2021:2741271.
54. Pham HM, Nguyen DLM, Duong MC, Phan XT, Tran LT, Trang DHT, et al. Neutrophil CD64-a prognostic marker of sepsis in intensive care unit: a prospective cohort study. *Frontiers in Medicine*. 2023;10:1251221.
55. Thiriet C, Mahjoub K, Courte G, Labroca P, Cravoisy A, Lemarie J, et al. Automated measurement of neutrophil CD64 expression for diagnosing sepsis in critically ill patients. *Minerva Anestesiologica*. 2019 Sep;85(9):943–50.
56. Waykole R, Nisal AR, Christopher A, Danu N, Nimbargi RC. Neutrophil CD64-A Reliable Predictive Marker of Sepsis in Adult Intensive Care Unit. *Journal of Applied Hematology*. 2024;15(3):204-208.
57. Talisa V, Shah F, Chang CC, Seymour C, Tang L, Kennedy J, et al. 1191: Heterogeneity In Response To Early Goal-Directed Therapy In Sepsis. *Critical Care Medicine*. 2023;51(1):594.
58. Patnaik R, Azim A, Singh K, Agarwal V, Mishra P, Poddar B, et al. Serial Trend of Neutrophil CD64, C-reactive Protein, and Procalcitonin as a Prognostic Marker in Critically Ill Patients with Sepsis/Septic Shock: A Prospective Observational Study from a Tertiary Care ICU. *Indian Journal of Critical Care Medicine*. 2024 Aug;28(8):777–84.
59. Ramírez-Ramírez A, Mancilla-Herrera I, Figueroa-Damián R, Soriano-Becerril D, Villeda-Gabriel G. Expression of CD64 and CD69 as

- biomarkers for late-onset sepsis diagnosis in infants born prematurely. The Brazilian Journal of Infectious Diseases. 2025;29(2):29–32.
60. Mutchmore A, et al. Automated APACHE II and SOFA score calculation using real-world electronic medical record data in a single center. Journal of Clinical Monitoring and Computing. 2023;37(4):1023-1033.

