

DAFTAR PUSTAKA

- Alkan Ozdemir, S., Arun Ozer, E., Ilhan, O., Sutcuoglu, S., 2018. Journal of Clinical Laboratory Analysis 32, e22338.
- Aminullah, A., 2012. Sepsis pada bayi baru lahir, in: Kosim, M.S., Yunanto, A., Dewi, R., Sarosa, G.I., Usman, A. (Eds.), Buku ajar neonatologi. Badan Penerbit IDAI, Jakarta.
- Arens, C., Bajwa, S.A., Koch, C., Siegler, B.H., Schneck, E., Hecker, A., Weiterer, S., Lichtenstern, C., Weigand, M.A., Uhle, F., 2016. Critical Care 20, 93.
- Bany-Mohammed, F., 2013. Sepsis, in Gomella, T. L., Cunningham, M. D., and Eyal, F. G. (eds) Neonatology : management, procedures, on-call problems, diseases and drugs. 7th edn. Mc Graw Hill, New York.
- Bekele T, Merga H, Tesfaye T, Asefa H. Predictors of mortality among neonates hospitalized with neonatal sepsis: a case control study from southern Ethiopia. *BMC Pediatr.* 2022 Jan 3;22(1):1. doi: 10.1186/s12887-021-03049-5. PMID: 34980043; PMCID: PMC8722178.
- Buonacera A, Stanganelli B, Colaci M, Malatino L. Neutrophil to Lymphocyte Ratio: An Emerging Marker of the Relationships between the Immune System and Diseases. *Int J Mol Sci.* 2022;23(7):3636. Published 2022 Mar 26. doi:10.3390/ijms23073636
- Celik, I.H., Hanna, M., Canpolat, F.E., Mohan Pammi, 2022. Pediatric Research 91, 337–350.
- Celikbilek, A., Ismailogullari, S., Zararsiz, G., 2014. Journal of Clinical Laboratory Analysis 28, 27–31.
- Coetzee, M., Mbowane, N., De Witt, T., 2017. South African Journal of Child Health 11, 99.
- Czaikoski PG, Mota JM, Nascimento DC, et al. Neutrophil Extracellular Traps Induce Organ Damage during Experimental and Clinical Sepsis. *PLoS One.* 2016;11(2):e0148142. Published 2016 Feb 5. doi:10.1371/journal.pone.0148142
- R. V., Harrison, K., Oyston, P.C., Lukaszewski, R.A., Clark, G.C., 2013. Clinical and Vaccine Immunology 20, 319–327.



Das A, Ray S, Chattopadhyay A, Hazra A, Mondal R. Gestation-wise Reference Ranges of Neutrophil Counts in Indian Newborns. Oman Med J. 2019 Mar;34(2):131-136. doi: 10.5001/omj.2019.25. PMID: 30918607; PMCID: PMC6425059.

Değirmencioğlu, H., 2023. Doi Number Gevher Nesibe Journal of Medical & Health Sciences 8, 1–7.

Dong, Y., Speer, C.P., 2015. Archives of Disease in Childhood - Fetal and Neonatal Edition 100, F257–F263.

Dursun, A., Özsoylu, S., Akyıldız, B., 2018. Pakistan Journal of Medical Sciences 34.

Eichberger, J., Resch, E., Resch, B., 2022. Frontiers in Pediatrics 10.

Ershad, M., Mostafa, A., Dela Cruz, M., Vearrier, D., 2019. Current Emergency and Hospital Medicine Reports 7, 83–90.

Faisal, Ahmad & Tjipta, Guslihan & Lubis, Bidasari & Aldy, Dachrul. (2016). Comparison of absolute neutrophil count between premature and term infants. Paediatrica Indonesiana. 44. 197. 10.14238/pi44.5.2004.197-200.

Fauzi Rizal, Titik Nuryastuti, Ika Puspitasari. Analisis Faktor Resiko Sepsis Neonatal terhadap Clinical Outcome di Neonatal Intensive Care Unit (NICU). Indonesian Journal of Nutrition and Dietetics Vol. 8, No. 1, 2020: 1-8

Forget, P., Khalifa, C., Defour, J.-P., Latinne, D., Van Pel, M.-C., De Kock, M., 2017. BMC research notes 10, 12.

Gandhi, P., Kondekar, S., 2019. EMJ Hematology 85–92.

Gebremedhin, D., Berhe, H., Gebrekirstos, K., 2016. PLOS ONE 11, e0154798.

Gomella, TL, Cunningham MD, Eyal FG., 2013. Sepsis. In: Neonatology Management, Procedures, On-Call Problems, Diseases, and Drugs.7th Edition. McGraw-Hill Education.

Gürol, G., Çiftci, İ.H., Terizi, H.A., Atasoy, A.R., Ozbek, A., Köroğlu, M., 2015. Journal of microbiology and biotechnology 25, 521–5.



U., Bahat, H., Kozer, E., Hamiel, Y., Ziv-Baran, T., Goldman, M., 2018. BMJ Open 8, e018092.

- Huang, M., Cai, S., Su, J., 2019. International Journal of Molecular Sciences 20, 5376.
- Huang, Z., Fu, Z., Huang, W., Huang, K., 2020. The American Journal of Emergency Medicine 38, 641–647.
- Iroh Tam, P.-Y., Bendel, C.M., 2017. Pediatric Research 82, 574–583.
- Iskandar ATP, Purwita Sari AY, Harianto A., et al., 2018. Sepsis Neonatorum. Dalam: Panduan Pelayanan neonatal UKK Neonatologi PP IDAI. Jakarta.
- Iswandari, N., Primadi, A., Sudigdoadi, S., 2017. Althea Medical Journal 4, 184–187.
- Jafarzadeh A, Jafarzadeh S, Nozari P, Mokhtari P, Nemati M. Lymphopenia an important immunological abnormality in patients with COVID-19: Possible mechanisms. Scand J Immunol. 2021 Feb;93(2):e12967. doi: 10.1111/sji.12967. Epub 2020 Sep 14. PMID: 32875598.
- Karabulut B, Alatas SO. Diagnostic Value of Neutrophil to Lymphocyte Ratio and Mean Platelet Volume on Early Onset Neonatal Sepsis on Term Neonate. J Pediatr Intensive Care. 2021;10(2):143-147. doi:10.1055/s-0040-1715104
- Kardana, I.M., 2011. Insidensi dan faktor yang berhubungan dengan mortalitas sepsis neonatorum. Paediatrica Indonesiana 51, 144.
- Kayalar AE, Çakmak Çelik F, Köylü RC, Ekşi MŞ, Çalışaneller AT. Increased Neutrophil Lymphocyte Ratio Could be Predictive for Higher Mortality in Preterm Infants with Intraventricular Hemorrhage. World Neurosurg. 2023 Apr 29:S1878-8750(23)00583-1. doi: 10.1016/j.wneu.2023.04.097. Epub ahead of print. PMID: 37121506.
- Kovach, M.A., Standiford, T.J., 2012. Current Opinion in Infectious Diseases 25, 321–327.
- Lee, J.H., 2019. Eosinophil count and neutrophil-to-lymphocyte count ratio as biomarkers for predicting early-onset neonatal sepsis. Korean Journal of Pediatrics 62, 438–439.
- Li, T., Dong, G., Zhang, M., Xu, Z., Hu, Y., Xie, B., Wang, Y., Xu, B., 2020a. Journal of Immunology Research 2020, 1–8.
- Yu F. Value of CRP, PCT, and NLR in Prediction of Severity and prognosis of Patients With Bloodstream Infections and Sepsis. Front



Surg. 2022 Mar 7;9:857218. doi: 10.3389/fsurg.2022.857218. PMID: 35345421; PMCID: PMC8957078.

Liu X, Shen Y, Wang H, Ge Q, Fei A, Pan S. Prognostic Significance of Neutrophil-to-Lymphocyte Ratio in Patients with Sepsis: A Prospective Observational Study. *Mediators Inflamm.* 2016;2016:8191254. doi: 10.1155/2016/8191254. Epub 2016 Mar 24. PMID: 27110067; PMCID: PMC4823514.

Liu, L., Oza, S., Hogan, D., Perin, J., Rudan, I., Lawn, J.E., Cousens, S., Mathers, C., Black, R.E., 2015. *The Lancet* 385, 430–440.

Liu, X., Shen, Y., Wang, H., Ge, Q., Fei, A., Pan, S., 2016. *Mediators of Inflammation* 2016, 1–8.

M. A. Mannan, Mosammad Alpana Jahan, Md. Arif Hossain, Afroza Islam Shuma, Sadeka Choudhury Moni, Ismat Jahan, Mohammad Kamrul Hassan Shabuj, Mohammad Shahidullah. Septic Shock in Neonate: Clinical Profile and its Outcome. *Journal of Pediatrics, Perinatology and Child Health* 6 (2022): 177-187.

Milton R, Gillespie D, Dyer C, Taiyari K, Carvalho MJ, Thomson K, Sands K, Portal EAR, Hood K, Ferreira A, Hender T, Kirby N, Mathias J, Nieto M, Watkins WJ, Bekele D, Abayneh M, Solomon S, Basu S, Nandy RK, Saha B, Iregbu K, Modibbo FZ, Uwaezuoke S, Zahra R, Shirazi H, Najeeb SU, Mazarati JB, Rucogoza A, Gaju L, Mehtar S, Bulabula ANH, Whitelaw AC, Walsh TR; BARNARDS Group; Chan GJ. Neonatal sepsis and mortality in low-income and middle-income countries from a facility-based birth cohort: an international multisite prospective observational study. *Lancet Glob Health.* 2022 May;10(5):e661-e672. doi: 10.1016/S2214-109X(22)00043-2. PMID: 35427523; PMCID: PMC9023753.

Mohsen, L., Ramy, N., Saied, D., Akmal, D., Salama, N., Abdel Haleim, M.M., Aly, H., 2017. *Antimicrobial Resistance & Infection Control* 6, 63.

Molloy, E.J., Bearer, C.F., 2022. *Pediatric Research* 91, 267–269.

Mu Y, Wang H. Association of neutrophil to lymphocyte ratio with preterm necrotizing enterocolitis: a retrospective case-control study. *BMC astroenterol.* 2022 May 17;22(1):248. doi: 10.1186/s12876-022-2329-3. PMID: 35581541; PMCID: PMC9112240.



Naess, A., Nilssen, S.S., Mo, R., Eide, G.E., Sjursen, H., 2017. Infection 45, 299–307.

Ni, J., Wang, H., Li, Y., Shu, Y., Liu, Y., 2019. Medicine 98, e18029.

Omran, A., Maaroof, A., Mohammad, M.H.S., Abdelwahab, A., 2018. Jornal de Pediatria 94, 82–87.

Onwuanaku CA, Okolo SN, Ige KO, Okpe SE, Toma BO. The effects of birth weight and gender on neonatal mortality in north central Nigeria. BMC Res Notes. 2011 Dec 24;4:562. doi: 10.1186/1756-0500-4-562. PMID: 22195995; PMCID: PMC3279327.

Özmeral Odabaşı, I., 2020. SiSli Etfal Hastanesi Tip Bulteni / The Medical Bulletin of Sisli Hospital.

Panda, S.K., Nayak, M.K., Rath, S., Das, P., 2021. Cureus.

Putra, P.Junara., 2012. Sari Pediatri 14, 205–10.

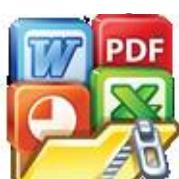
Rana, D., Hazarika, H., Agarwal, A., Gupta, R., Kotru, M., 2022. Cureus.

Różańska A, Wójkowska-Mach J, Adamski P, et al. Infections and risk-adjusted length of stay and hospital mortality in Polish Neonatology Intensive Care Units. Int J Infect Dis. 2015;35:87-92. doi:10.1016/j.ijid.2015.04.017

Ruslie, R.H., Tjipta, D.G., Samosir, C.T., Hasibuan, B.S., 2018. IOP Conference Series: Earth and Environmental Science 125, 012057.

Sahiledengle B, Tekalegn Y, Zenbaba D, Woldeyohannes D, Teferu Z. Which Factors Predict Hospital Length-of-Stay for Children Admitted to the Neonatal Intensive Care Unit and Pediatric Ward? A Hospital-Based Prospective Study. Glob Pediatr Health. 2020;7:2333794X20968715. Published 2020 Nov 3. doi:10.1177/2333794X20968715

Sauls RS, McCausland C, Taylor BN. Histology, T-Cell Lymphocyte. [Updated 2022 May 8]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK535433/>



A.L., Sánchez, P.J., Stoll, B.J., 2017. The Lancet 390, 1770–1780.

El-Din, E.M.R., El-Sokkary, M.M.A., Bassiouny, M.R., Hassan, R., 2015. BioMed Research International 2015, 1–11.

Simonsen, K.A., Anderson-Berry, A.L., Delair, S.F., Davies, H.D., 2014. Clinical Microbiology Reviews 27, 21–47.

Singer, M., Deutschman, C.S., Seymour, C.W., Shankar-Hari, M., Annane, D., Bauer, M., Bellomo, R., Bernard, G.R., Chiche, J.-D., Coopersmith, C.M., Hotchkiss, R.S., Levy, M.M., Marshall, J.C., Martin, G.S., Opal, S.M., Rubenfeld, G.D., van der Poll, T., Vincent, J.-L., Angus, D.C., 2016. JAMA 315, 801–10.

Singh, M., AlSaleem, M., Gray, C.P., 2022. Neonatal Sepsis, StatPearls.

Sorsa, A., 1970. Ethiopian Journal of Health Sciences 29.

Subba Chetana, He Xiangying. Neutropenia in Premature Infants. Journal of Pediatrics, Perinatology and Child Health 3 (2019): 001-009.

Sumitro KR, Utomo MT, Widodo ADW. Neutrophil-to-Lymphocyte Ratio as an Alternative Marker of Neonatal Sepsis in Developing Countries. Oman Med J. 2021;36(1):e214. Published 2021 Jan 6. doi:10.5001/omj.2021.05

Sumitro KR, Utomo MT, Widodo ADW. Neutrophil-to-Lymphocyte Ratio as an Alternative Marker of Neonatal Sepsis in Developing Countries. Oman Med J. 2021 Jan 6;36(1):e214. doi: 10.5001/omj.2021.05. PMID: 33437537; PMCID: PMC7786268.

Sumitro, K.R., Utomo, M.T., Widodo, A.D.W., 2021. Oman Medical Journal 36, e214–e214.

Tomar, B., Anders, H.-J., Desai, J., Mulay, S.R., 2020. Cells 9, 1383.

Wagstaff, J.S., Durrant, R.J., Newman, M.G., Eason, R., Ward, R.M., Sherwin, C.M.T., Enioutina, E.Y., 2019. Frontiers in Pharmacology 10.

Wang J. Neutrophils in tissue injury and repair. Cell Tissue Res. 2018;371(3):531-539. doi:10.1007/s00441-017-2785-7

Widjaja H, Rusmawatiningsyas D, Makrufardi F, Arguni E. Neutrophil lymphocyte ratio as predictor of mortality in pediatric patients with bacterial meningitis: A retrospective cohort study. Ann Med Surg (Lond). 2021 Dec 21;73:103191. doi: 10.1016/j.amsu.2021.103191. MID: 35003726; PMCID: PMC8717454.

uo Q, Su Z, et alNeutrophil-to-lymphocyte ratio as a predictor of mortality in intensive care unit patients: a retrospective analysis of



the Medical Information Mart for Intensive Care III DatabaseBMJ
Open 2021;11:e053548. doi: 10.1136/bmjopen-2021-053548

Wulandari A, Martuti S, Pudjiastuti., 2017. Sari Pediatri 19, p.237-44.

Wynn, J.L., Wong, H.R., 2017. Pathophysiology of Neonatal Sepsis, in: Fetal and Neonatal Physiology. Elsevier, pp. 1536-1552.e10.

Yang, K.-D., He, Y., Xiao, S., Ai, Q., Yu, J.-L., 2020. European Journal of Clinical Microbiology & Infectious Diseases 39, 2405–2414.

Zhong X, Ma A, Zhang Z, Liu Y, Liang G. Neutrophil-to-lymphocyte ratio as a predictive marker for severe pediatric sepsis. Transl Pediatr. 2021 Mar;10(3):657-665. doi: 10.21037/tp-21-47. PMID: 33880335; PMCID: PMC8041612.

