

DAFTAR PUSTAKA

1. Handayani D dkk. Penyakit virus corona 2019. *Jurnal Respirologi Indonesia*. 2020;40(2):119–29.
2. World Health Organization. WHO Coronavirus (COVID-19) Listing of WHO's response to COVID-19 [Internet]. World Health Organization. [cited 2020 Nov 29]. Available from: <https://www.who.int/news/item/29-06-2020-covidtimeline>
3. World Health Organization. WHO Coronavirus (COVID-19) Dashboard: Global Situation [Internet]. World Health Organization. [cited 2021 Sep 9]. Available from: <https://covid19.who.int/>
4. World Health Organization. WHO Coronavirus (COVID-19) Dashboard: Indonesia Situation [Internet]. World Health Organization. [cited 2021 Jun 25]. Available from: <https://covid19.who.int/region/searo/country/id>
5. United Nations Children's Fund. Indonesia COVID-19 Response Situation Report [Internet]. United Nations Children's Fund. [cited 2021 Oct 24]. Available from: <https://www.unicef.org/documents/indonesia-covid-19-situation-report-september-2021>
6. Rosyanti L, Hadi I, Keperawatan Poltekkes Kemenkes Kendari J. The Immunity Response and Severe Acute Respiratory Syndrome Coronavirus-2 Cytokine Storm Literature Review. *Jurnal Kesehatan Madani Medika*. 11(02):176–201.
7. Sankar J, Dhochak N, Kabra SK, Lodha R. COVID-19 in Children: Clinical Approach and Management. *Indian Journal of Pediatrics*. 2020 Jun 1;87(6):433–42.
8. Usul E, San I, Bekgöz B, Sahin A. Role of hematological parameters in COVID-19 patients in the emergency room. *Biomarkers in Medicine*. 2020 Sep 1;14(13):1207–15.
9. Lagunas-Rangel F. Neutrophil-to-lymphocyte ratio and lymphocyte-to-C-reactive protein ratio in patients with severe coronavirus disease 2019 (COVID-19): A meta-analysis. *Clinical Infectious Diseases*. 2020 Aug 1;71(15):762–8.
10. Kurniawan Sintoro D, Sintoro F, Artanti D. Hubungan antara rasio neutrofil limfosit dengan derajat klinis COVID-19 pada pasien anak di RSUD Tarakan provinsi Kalimantan Utara. *Intisari Sains Medis | Intisari Sains Medis*. 2021;12(2):449–52.
11. Song CY, Xu J, He JQ, Lu YQ. COVID-19 early warning score: A multi-parameter screening tool to identify highly suspected patients. *medRxiv*. 2020;
12. Yildiz E, Cigri E, Dincer Z, Narsat A, Calisir B. High Neutrophil/Lymphocyte Ratios in Symptomatic Pediatric COVID-19 Patients. *Journal of the College of Physicians and Surgeons Pakistan*. 2021;31:93–8.
13. Ghosh R, Dubey MJ, Chatterjee S, Dubey S. Impact of COVID-19 on children: Special focus on the psychosocial aspect. *Minerva Pediatrica*. 2020 Jun 1;72(3):226–35.
14. Kementerian Kesehatan Republik Indonesia. Penilaian Cepat: Dampak Pandemi COVID-19 terhadap Layanan Imunisasi di Indonesia [Internet].

- 2020 [cited 2022 Jan 31]. Available from: <https://www.unicef.org/indonesia/id/laporan/penilaian-cepat-layanan-imunisasi-di-indonesia>
15. Yuliana. Corona virus diseases (Covid-19); Sebuah tinjauan literatur. *Wellness and Healthy Magazine*. 2020;2(1):187–92.
 16. American Academy of Paediatric. Children and COVID-19: State Data Report [Internet]. American Academy of Paediatric. [cited 2021 Sep 9]. Available from: <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/children-and-covid-19-state-level-data-report/>
 17. Burhan E, Susanto AD, Isbaniah F, Nasution SA, Ginanjar E, Pitoyo CW. Pedoman Tatalaksana COVID-19. Perhimpunan Dokter Paru Indonesia, Perhimpunan Dokter Spesialis Kardiovaskular Indonesia, Perhimpunan Dokter Spesialis Penyakit Dalam Indonesia, Perhimpunan Dokter Anestesiologi dan Terapi Intensif Indonesia, Ikatan Dokter Anak Indonesia. 2020;(3).
 18. Ikatan Dokter Anak Indonesia. Panduan Klinis Tata Laksana COVID-19 pada Anak. Ikatan Dokter Anak Indonesia. 2020;(3).
 19. Menteri Kesehatan Republik Indonesia. Keputusan Menteri Kesehatan Republik Indonesia Nomor HK.01.07/MENKES/413/2020 Tentang Pedoman Pencegahan dan Pengendalian Coronavirus Disease 2019 (COVID-19). 2020.
 20. Du Z, Xu X, Wu Y, Wang L, Cowling BJ, Meyers LA. Serial interval of COVID-19 among publicly reported confirmed cases. Vol. 26, *Emerging Infectious Diseases*. Centers for Disease Control and Prevention (CDC); 2020. p. 1341–3.
 21. Ikawaty R. Dinamika Interaksi Reseptor ACE2 dan SARS-CoV-2 Terhadap Manifestasi Klinis COVID-19. *KELUWIH: Jurnal Kesehatan dan Kedokteran*. 2020 Jun 26;1(2):70–6.
 22. Fehr AR, Perlman S. Coronaviruses: An overview of their replication and pathogenesis. In: *Coronaviruses: Methods and Protocols*. Springer New York; 2015. p. 1–23.
 23. Cevik M, Kuppalli K, Kindrachuk J, Peiris M. Virology, transmission, and pathogenesis of SARS-CoV-2. *The BMJ*. 2020 Oct 23;371.
 24. Xu X, Chen P, Wang J, Feng J, Zhou H, Li X, et al. Evolution of the novel coronavirus from the ongoing Wuhan outbreak and modeling of its spike protein for risk of human transmission. Vol. 63, *Science China Life Sciences*. Science in China Press; 2020. p. 457–60.
 25. Chowdhury MA, Hossain N, Kashem MA, Shahid MA, Alam A. Immune response in COVID-19: A review. Vol. 13, *Journal of Infection and Public Health*. Elsevier Ltd; 2020. p. 1619–29.
 26. Fajgenbaum DC, June CH. Cytokine Storm. *New England Journal of Medicine*. 2020 Dec 3;383(23):2255–73.
 27. Shah VK, Firmal P, Alam A, Ganguly D, Chattopadhyay S. Overview of Immune Response During SARS-CoV-2 Infection: Lessons From the Past. Vol. 11, *Frontiers in Immunology*. Frontiers Media S.A.; 2020.
 28. Yoo JS, Sasaki M, Cho SX, Kasuga Y, Zhu B, Ouda R, et al. SARS-CoV-2 inhibits induction of the MHC class I pathway by targeting the STAT1-IRF1-NLRC5 axis. *Nature Communications*. 2021 Dec 1;12(1).

29. Girona-Alarcon M, Bobillo-Perez S, Sole-Ribalta A, Hernandez L, Guitart C, Suarez R, et al. The different manifestations of COVID-19 in adults and children: a cohort study in an intensive care unit. *BMC Infectious Diseases*. 2021;21(1):4–11.
30. Ludvigsson JF. Systematic review of COVID-19 in children shows milder cases and a better prognosis than adults. *Acta Paediatrica, International Journal of Paediatrics*. 2020 Jun 1;109(6):1088–95.
31. Graff K, Smith C, Silveira L, Jung S, Curran-Hays S, Jarjour J, et al. Risk Factors for Severe COVID-19 in Children. *Pediatric Infectious Disease Journal*. 2021;E137–45.
32. Challen R, Brooks-Pollock E, Read JM, Dyson L, Tsaneva-Atanasova K, Danon L. Risk of mortality in patients infected with SARS-CoV-2 variant of concern 202012/1: Matched cohort study. *The BMJ*. 2021 Mar 9;372.
33. Wuhan WQ, Yongxi Z, Siyang C, Xiaomao J. *A Handbook of 2019-nCoV Pneumonia Control and Prevention*. 2020.
34. Korsman SNJ, van Zyl GU, Nutt L, Andersson MI, Preiser W. Disinfection and sterilisation. In: Korsman SNJ, van Zyl GU, Nutt L, Andersson MI, Preiser W, editors. *Virology [Internet]*. Edinburgh: Churchill Livingstone; 2012. p. 32–3. Available from: <https://www.sciencedirect.com/science/article/pii/B9780443073670000161>
35. Tang S, Mao Y, Jones RM, Tan Q, Ji JS, Li N, et al. Aerosol transmission of SARS-CoV-2? Evidence, prevention and control. Vol. 144, *Environment International*. Elsevier Ltd; 2020.
36. Deng W, Bao L, Gao H, Xiang Z, Qu Y, Song Z, et al. Ocular conjunctival inoculation of SARS-CoV-2 can cause mild COVID-19 in rhesus macaques. *Nature Communications*. 2020;11.
37. Kementerian Kesehatan Republik Indonesia. *Vaksinasi COVID-19 Nasional [Internet]*. Kementerian Kesehatan Republik Indonesia. [cited 2021 Nov 24]. Available from: <https://vaksin.kemkes.go.id/#/vaccines>
38. Center for Disease Control and Prevention. *COVID-19 Vaccines for Children and Teens [Internet]*. Center for Disease Control and Prevention. [cited 2021 Nov 8]. Available from: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/recommendations/children-teens.html>
39. Jenco M. COVID-19 vaccine for children ages 5-11 receives final approval [Internet]. *American Academy of Paediatrics*. 2021 [cited 2021 Nov 8]. Available from: <https://www.aappublications.org/news/2021/11/02/cdc-pfizer-covid-vaccine-children-110221>
40. Xiang M, Zhang Z, Kuwahara K. Impact of COVID-19 pandemic on children and adolescents' lifestyle behavior larger than expected. *Progress in Cardiovascular Diseases*. 2020 Jul 1;63(4):531–2.
41. Califf RM. Biomarker definitions and their applications. *Experimental Biology and Medicine*. 2018 Feb 1;243(3):213–21.
42. Samprathi M, Jayashree M. Biomarkers in COVID-19: An Up-To-Date Review. Vol. 8, *Frontiers in Pediatrics*. Frontiers Media S.A.; 2021.
43. Yang AP, Liu J ping, Tao W qiang, Li H ming. The diagnostic and predictive role of NLR, d-NLR and PLR in COVID-19 patients. *International Immunopharmacology*. 2020 Jul 1;84.

44. Liu J, Liu Y, Xiang P, Pu L, Xiong H, Li C, et al. Neutrophil-to-lymphocyte ratio predicts critical illness patients with 2019 coronavirus disease in the early stage. *Journal of Translational Medicine*. 2020 May 20;18(1).
45. Hamid GA. CLINICAL HEMATOLOGY Advance Hematologic Malignancies View project new pathogenetic theories View project. 2013; Available from: <https://www.researchgate.net/publication/260266684>
46. Johansson C, Kirsebom FCM. Neutrophils in respiratory viral infections. Vol. 14, *Mucosal Immunology*. Springer Nature; 2021. p. 815–27.
47. Guo Z, Zhang Z, Prajapati M, Li Y. Lymphopenia caused by virus infections and the mechanisms beyond. Vol. 13, *Viruses*. MDPI; 2021.
48. Rudolph CD, Rudolph AM, Hostetter MK. *Rudolph's pediatrics*. 21st ed. New York: McGraw-Hill; 2003. 1548 p.
49. Imran MM, Ahmad U, Usman U, Ali M, Shaukat A, Gul N. Neutrophil/lymphocyte ratio: A marker of COVID-19 pneumonia severity. Vol. 75, *International Journal of Clinical Practice*. John Wiley and Sons Inc; 2021.
50. Raffetti E, Donato F, Casari S, Castelnovo F, Sighinolfi L, Bandera A, et al. Systemic inflammation-based scores and mortality for all causes in HIV-infected patients: A MASTER cohort study. *BMC Infectious Diseases*. 2017 Mar 7;17(1).
51. Greenway A. Abnormal haematology results in children. Vol. 64.
52. Yildiz Balci S, Turan-Vural E, Turkyilmaz O, Esen F, Aksaray S. Complete blood count parameters and neutrophil-to-lymphocyte ratio values as markers for differentiation between systemic infectious and non-infectious uveitis. *International Ophthalmology*. 2020 Nov 1;40(11):3033–41.
53. Ray-Coquard I, Cropet C, van Glabbeke M, Sebban C, le Cesne A, Judson I, et al. Lymphopenia as a prognostic factor for overall survival in advanced carcinomas, sarcomas, and lymphomas. *Cancer Research*. 2009 Jul 1;69(13):5383–91.
54. Ménétrier-Caux C, Ray-Coquard I, Blay JY, Caux C. Lymphopenia in Cancer Patients and its Effects on Response to Immunotherapy: An opportunity for combination with Cytokines? Vol. 7, *Journal for ImmunoTherapy of Cancer*. BioMed Central Ltd.; 2019.
55. Shoenfeld Y, Gurewich Y, Gallant LA, Pinkhas J, Tikva Israel P. Prednisone-Induced Leukocytosis Influence of Dosage, Method and Duration of Administration on the Degree of Leukocytosis.
56. Pasternak Y, Yarden-Bilavsky H, Kodman Y, Zoldan M, Tamary H, Ashkenazi S. Inhaled corticosteroids increase blood neutrophil count by decreasing the expression of neutrophil adhesion molecules Mac-1 and L-selectin. *American Journal of Emergency Medicine*. 2016 Oct 1;34(10):1977–81.
57. Abdelghany TM, Ganash M, Bakri MM, Qanash H, Al-Rajhi AMH, Elhussieny NI. SARS-CoV-2, the other face to SARS-CoV and MERS-CoV: Future predictions. Vol. 44, *Biomedical Journal*. Elsevier B.V.; 2021. p. 86–93.

58. Adhimah Amanda D. Rasio Neutrofil-Limfosit pada Covid-19; Sebuah tinjauan literatur. *Wellness and Healthy Magazine*. 2020;2(2):219–23.
59. Selanno Y, Widaningsih Y, Esa T, Arif M. Analysis of Neutrophil Lymphocyte Ratio and Absolute Lymphocyte Count as Predictors of Severity of COVID-19 Patients. *Indonesian Journal of Clinical Pathology and Medical Laboratory*. 2021;27(2):184–9.
60. Badal S, Thapa Bajgain K, Badal S, Thapa R, Bajgain BB, Santana MJ. Prevalence, clinical characteristics, and outcomes of pediatric COVID-19: A systematic review and meta-analysis. *Journal of Clinical Virology*. 2021 Feb 1;135.
61. ifdatul M. Studi Kasus: Gambaran Kepatuhan Protokol Kesehatan COVID 19 Terhadap Anak Usia Sekolah TPA di Mushola Al-Ikhlas Kelurahan Pasia Nan Tigo Padang Tahun 2021. 2021.
62. Jun T, Nirenberg S, Weinberger T, Sharma N, Pujadas E, Cordon-Cardo C, et al. Analysis of sex-specific risk factors and clinical outcomes in COVID-19. *Communications Medicine*. 2021 Dec;1(1).
63. Ya'qoub L, Elgendy IY, Pepine CJ. Sex and gender differences in COVID-19: More to be learned! *American Heart Journal Plus: Cardiology Research and Practice*. 2021 Mar;3:100011.
64. Bunyavanich S, Do A, Vicencio A. Nasal Gene Expression of Angiotensin-Converting Enzyme 2 in Children and Adults. Vol. 323, *JAMA - Journal of the American Medical Association*. American Medical Association; 2020. p. 2427–9.
65. Vono M, Huttner A, Lemeille S, Martinez-Murillo P, Meyer B, Baggio S, et al. Robust innate responses to SARS-CoV-2 in children resolve faster than in adults without compromising adaptive immunity. *Cell Reports*. 2021 Oct 5;37(1).
66. Zhang Q, Liu Z, Moncada-Velez M, Chen J, Ogishi M, Bigio B, et al. Inborn errors of type I IFN immunity in patients with life-threatening COVID-19. *Science (1979)*. 2020 Oct 23;370(6515).
67. Lucas C, Wong P, Klein J, Castro TBR, Silva J, Sundaram M, et al. Longitudinal analyses reveal immunological misfiring in severe COVID-19. *Nature*. 2020 Aug 20;584(7821):463–9.
68. Pierce CA, Sy S, Galen B, Goldstein DY, Ormer E, Keller MJ, et al. Natural mucosal barriers and COVID-19 in children. 2021; Available from: <https://doi.org/10.1172/jci>.
69. Irfan O, Muttalib F, Tang K, Jiang L, Lassi ZS, Bhutta Z. Clinical characteristics, treatment and outcomes of paediatric COVID-19: A systematic review and meta-analysis. Vol. 106, *Archives of Disease in Childhood*. BMJ Publishing Group; 2021. p. 440–8.
70. Feldstein LR, Rose EB, Horwitz SM, Collins JP, Newhams MM, Son MBF, et al. Multisystem Inflammatory Syndrome in U.S. Children and Adolescents. *New England Journal of Medicine*. 2020 Jul 23;383(4):334–46.
71. Moosmann J, Krusemark A, Dittrich S, Ammer T, Rauh M, Woelfle J, et al. Age- and sex-specific pediatric reference intervals for neutrophil-to-lymphocyte ratio, lymphocyte-to-monocyte ratio, and platelet-to-lymphocyte ratio. *International Journal of Laboratory Hematology*. 2021;

72. Reusch N, de Domenico E, Bonaguro L, Schulte-Schrepping J, Baßler K, Schultze JL, et al. Neutrophils in COVID-19. Vol. 12, *Frontiers in Immunology*. Frontiers Media S.A.; 2021.
73. Meizlish ML, Pine AB, Bishai JD, Goshua G, Nadelmann ER, Simonov M, et al. A neutrophil activation signature predicts critical illness and mortality in COVID-19. *Blood Advances*. 2021 Mar 9;5(5):1164–77.

