

DAFTAR PUSTAKA

1. Rahman S, Montero MTV, Rowe K, Kirton R, Kunik F. Epidemiology, pathogenesis, clinical presentations, diagnosis and treatment of COVID-19: a review of current evidence. *Expert Rev Clin Pharmacol*. 2021;14(5):601–21.
2. WHO (2022). WHO Coronavirus (COVID-19) Dashboard. <https://covid19.who.int/>- Diakses Maret 2022.
3. Website corona sumbar. <https://corona.sumbarprov.go.id/>- Diakses Maret 2022.
4. Kementerian Kesehatan Republik Indonesia. Manajemen Klinis Tata Laksana COVID-19 di Fasilitas Pelayanan Kesehatan. 2021: 11-21
5. Payán-Pernía S, Gómez Pérez L, Remacha Sevilla ÁF, Sierra Gil J, Novelli Canales S. Absolute lymphocytes, ferritin, c-reactive protein, and lactate dehydrogenase predict early invasive ventilation in patients with COVID-19. *Lab Med*. 2021;52(2):141–5.
6. Ghahramani S, Tabrizi R, Lankarani KB, Khasani SMA, Rezaei S, Zeidi N, *et al*. Laboratory features of severe vs. non-severe COVID-19 patients in Asian populations: A systematic review and meta-analysis. *Eur J Med Res*. 2020 Aug 3;25(1):1-10.
7. Yazdanpanah P, Vafaei F, Afrouz S. Diagnosis of Coronavirus disease by measuring serum concentrations of IL-6 and blood Ferritin. :1-14.
8. Lippi G, Plebani M. The critical role of laboratory medicine during coronavirus disease 2019 (COVID-19) and other viral outbreaks. *Clin Chem Lab Med*. 2020 Jun 25;58(7):1063-69.
9. Sun S, Cai X, Wang H, He G, Lin Y, Lu B, *et al*. Abnormalities of peripheral blood system in patients with COVID-19 in Wenzhou, China. *Clin Chim Acta*. 2020 Aug;507:174–80.
10. Fouad SH, Allam MF, Taha SI, Okba AA, Hosny A, Moneer M, *et al*. Comparison of hemoglobin level and neutrophil to lymphocyte ratio as prognostic markers in patients with COVID-19. *J Int Med Res*. 2021 Jul;49(7)
11. Shao S, Zhao Z, Wang F, Chang D, Liu Y, Liu S, *et al*. Risk factors associated with disease aggravation among 126 hospitalized patients with COVID-19 in different places in China: A retrospective observational study. *Medicine (Baltimore)*. 2020 Nov;99(45):e22971.

12. Wang H, Xing Y, Yao X, Li Y, Huang J, Tang J, *et al.* Retrospective study of clinical features of COVID-19 in inpatients and their association with disease severity. *Med Sci Monit Int Med J Exp Clin Res.* 2020 Dec;26:e927674.
13. Yang L, Liu S, Liu J, Zhang Z, Wan X, Huang B, *et al.* COVID-19: immunopathogenesis and Immunotherapeutics. *Signal Transduct Target Ther.* 2020;5(1):1-8.
14. Lindsley AW, Schwartz JT, Rothenberg ME. Eosinophil responses during COVID-19 infections and coronavirus vaccination. *J Allergy Clin Immunol.* 2020 Jul;146:1-7.
15. Terpos E, Kastritis E, Ntanasis-stathopoulos I, Elalamy I, Sergentanis TN, Politou M, *et al.* Hematological findings and complications of COVID-19. *Am J Hematol.* 2020;1-14.
16. Zhang Y, Zeng X, Jiao Y, Li Z, Liu Q, Yang M, *et al.* Mechanisms involved in the development of thrombocytopenia in patients with COVID-19. *Thromb Res.* 2020;193(January):110-5.
17. Ponti G, Maccaferri M, Ruini C, Tomasi A, Ozben T. Biomarkers associated with COVID-19 disease progression. *Crit Rev Clin Lab Sci.* 2020 Jun 5;57(6):389-99.
18. Henry BM, Benoit S, Plebani M, Lippi G. Hematologic, biochemical and immune biomarker abnormalities associated with severe illness and mortality in coronavirus disease 2019 (COVID-19): a meta-analysis. *Clin Chem Lab Med.* 2020; 58(7): 1021-28.
19. Zhou C, Huang Z, Tan W, Li X, Yin W, Xiao Y, *et al.* Predictive factors of severe coronavirus disease 2019 in previously healthy young adults: a single-center, retrospective study. *Respir Res.* 2020 Jun;21(1):157.
20. Liu F, Xu A, Zhang Y, Xuan W, Yan T, Pan K, *et al.* Patients of COVID-19 may benefit from sustained Lopinavir-combined regimen and the increase of Eosinophil may predict the outcome of COVID-19 progression. *International Journal of Infectious Diseases.* 2020:183-191.
21. Zheng Y, Zhang Y, Chi H, Chen S, Peng M, Luo L, *et al.* The hemocyte counts as a potential biomarker for predicting disease progression in COVID-19: a retrospective study. *Clin Chem Lab Med.* 2020 Jun;58(7):1106-15.
22. Bi X, SU Z, Yan H, Du J, Wang J, Chen L, *et al.* Prediction of severe illness due to COVID-19 based on an analysis of initial fibrinogen to albumin ratio and platelet count. *Platelets.* 2020 May 5
23. Mousavarizah L, Ghasemi S. Genotype and phenotype of COVID-19: Their roles in pathogenesis. *Journal of Microbiology, Immunology and Infection.*

2021:139-63.

24. Gennaro FD, Pizzol D, Marotta C, Racalbutto V, Veronese N, Antunes M, *et al.* Coronavirus diseases (COVID-19) current status and future perspectives: A narrative review. *Int J Environ Res Public Health*. 2020 Apr 14;17(8).
25. Lingeswaran M, Goyal T, Ghosh R, Suri S, Mitra P, Misra S, *et al.* Inflammation, Immunity and Immunogenetics in COVID-19: A Narrative Review. *Indian J Clin Biochem*. 2020 Jun 6;35(3):260-73.
26. Li X, Geng M, Peng Y, Meng L, Lu S. Molecular immune pathogenesis and diagnosis of COVID-19. *J Pharm Anal*. 2020 Mar 5;10(2):102-108.
27. Cai H. Sex difference and smoking predisposition in patients with COVID-19. *Lancet Respir Med*. 2020 Mar 11;8(4):e20.
28. Manssor B, Patel J, Parekh D. Since January 2020 Elsevier has created a COVID-19 resource centre with free information in English and Mandarin on the novel coronavirus COVID-19. The COVID-19 resource centre is hosted on Elsevier Connect, the company's public news and information. 2020;(January):19-21
29. Centers for Disease Control and Prevention (CDC). Interim US Guidance for Risk Assessment and Public Health Management of Persons with Potential 2019 Novel Coronavirus (2019-nCoV) Exposure in Travel-associated or Community Settings. *Centers Dis Control Prev*. 2020;2019:1-8.
30. Yang J, Zheng Y, Gou X, Pu K, Chen Z, Guo Q, *et al.* Prevalence of comorbidities and its effects in patients infected with SARS-CoV-2: a systematic review and meta-analysis. *Int J Infect Dis*. 2020 Mar 12;94:91-95.
31. Lam N, Muravez SN, Boyce RW. A Comparison of the Indian Health Service Counseling Technique with Traditional, Lecture-Style Counseling. *J Am Pharm Assoc*. 2015 Sep 01; 5(5):503-10.
32. PDPI. Panduan Praktik Klinis: Pneumonia Covid-19. *J Am Pharm Assoc*. 2020;55(5):1-67.
33. Elfializa NV. Hubungan nilai hematokrit, jumlah trombosit dan jumlah leukosit dengan derajat klinis pasien demam berdarah dengue anak di RSUP Dr. M. Djamil Padang. *J Fak Kedokt Univ Andalas* 1. 2020.
34. Rosen RJ. Thrombotic complications in critically ill patients with COVID 19. *Thromb Res*. 2020 Jan;191:56.
35. Huang R, Zhuid L, Xue L, Liu L, Yan X, Wang J, *et al.* Clinical findings of patients with coronavirus disease 2019 in Jiangsu Province, China: A

- retrospective, multi-center study. *PLoS Negl Trop Dis*. 2020 May 8;14(5):1-14.
36. Guo T, Shen Q, Guo W, He W, Li J, Zhang Y, *et al*. Clinical Characteristics of Elderly Patients with COVID-19 in Hunan Province, China: A Multicenter, Retrospective Study. *Gerontology*. 2020;66(5):467-75.
 37. Sherwood L. *Fisiologi manusia: dari sel ke sistem*. 9th ed. Suyono J, Iskandar M, Isella V, Susanti F, Michael, Sanjaya N, et al., editors. Jakarta; 2020. 448–72 p.
 38. Kelly KM, Burkhardt B, Bollard CM. *Hematology: basic principles and practice*: Elsevier; 2018. 1330-42.
 39. Zabaneh ID, Pamela K. Fonseca, Prime JT, Alla SB. Severe leukocytosis and cytokine storm in a patient with covid-19 pneumonia. *World J Adv Res Rev*. 2021 Feb 08;9(3):215-17.
 40. Ma X, Li A, Jiao M, Shi Q, An X, Feng Y, *et al*. Characteristic of 523 COVID-19 in Henan Province and a death prediction model. *Front public Heal*. 2020;8:475
 41. Chen Y, Geng Y, Xu X, Chen X, Gao J, Li J, *et al*. The features comparison between patients in the ICU and general wards and between patients with different outcomes: a 2020 COVID-19 study. *Ann Palliat Med*. 2021 Jan;10(1):672–80.
 42. Camp J V, Jonsson CB. A role for neutrophils in viral respiratory disease. *Front Immunol*. 2017;8:550.
 43. Abbas AK, Litchman AH, Pillai S. *Imunologi Dasar Abbas: Fungsi dan kelainan sistem Imun*. 5th ed. Kalim H, editor. Singapore: Elsevier; 2016. 12–36 p.
 44. Asan A, Üstündağ Y, Koca N, Şimşek A, Sayan HE, Parildar H, *et al*. Do initial hematologic indices predict the severity of COVID-19 patients. *Turkish J Med Sci*. 2021 Feb;51(1):39–44
 45. Guner Ozenen G, Sahbudak Bal Z, Umit Z, Bilen NM, Yildirim Arslan S, Yurtseven A, *et al*. Demographic, clinical, and laboratory features of COVID-19 in children: the role of mean platelet volume in predicting hospitalization and severity. *J Med Virol*. 2021 May;93(5):3227–37.
 46. Jamini T. Gambaran Lama Hari Rawat Inap Pasien Covid-19 Berdasarkan Karakteristik Demografi, Klinis dan Hasil Laboratorium Pasien di Ruang Perawatan Covid-19 RSUD H. Boejasin Pelaihari Tahun 2021. *J Penelit UPR*. 2022;1(2):45-53.
 47. Abate BB, Kassie AM, Kassaw MW, Aragie TG, Masresha SA. Sex

difference in coronavirus disease (COVID-19): A systematic review and meta-analysis. *BMJ Open*. 2020;10(10):1-10.

48. Widjaja JT, Kwee L, Giantara AK, Subagiyo HA, Edwin C, Putri RL. Karakteristik Pasien COVID-19 Rawat Inap di RS Immanuel Bandung. *J Med Heal Karakteristik Pasien COVID-19 Rawat*. 2021;3(2):164-175.
49. Juwita SS, Anggraini D, Kurniawati D. Gambaran Karakteristik Pasien Covid-19 Di Rumah Sakit Otak Dr. Mohammad Hatta Bukittinggi. *Afiyah*. 2022;IX(1).
50. Müller L, Di Benedetto S. How immunosenescence and inflammaging may contribute to hyperinflammatory syndrome in covid-19. *Int J Mol Sci*. 2021;22(22).
51. Samsudin R, Sastrawan IGA, Risnawan IG, Ardanayasa S, Putu IG, Aryana S. Korelasi pemeriksaan darah lengkap dengan derajat keparahan COVID-19 pada pasien lansia di Rumah Sakit Umum Daerah (RSUD) Tabanan tahun 2021. 2022;13(2):421-425.
52. Guan W, Ni Z, Hu Y. Clinical Characteristics of Coronavirus Disease 2019 in China. *N Engl J Med*. 2020;382(18):1708-1720.
53. Huang J, Qian C, Bian T, Chu M, Yin W, Pang Y *et al*. A retrospective analysis from a single center for 60 COVID-19 patients with asymptomatic, mild to moderate, and severe conditions in Wuxi, China. *Medicine (Baltimore)*. 2021;100(30):e26748.
54. Liao D, Zhou F, Luo L, Xu M, Wang H, Xia J *et al*. Haematological characteristics and risk factors in the classification and prognosis evaluation of COVID-19: a retrospective cohort study. 2020;(July):19-21.
55. Sinurat TR, Dinutanayo WW, Aditya, Purnomo A. Perbandingan derajat keparahan terhadap jumlah neutrofil, limfosit dan neutrophile to lymphocyte ratio (NLR) pada pasien COVID-19. *Jurnal Vokasi Kesehatan*. 2022:134-139.
56. Lim I. Perbedaan Jumlah Limfosit Pada Pasien Positif Coronavirus Disease 2019(Covid-19) Derajat Ringan, Sedang, Berat, Dan Kritis Di Rumah Sakit Bethesda Yogyakarta. *J Chem Inf Model*. 2021;53(9):1689-1699.
57. Hassani M, Leijte G, Bruse N, Kox M, Picckers P, Vrisekoop N, *et al*. Differentiation and activation of eosinophils in the human bone marrow during experimental human endotoxemia. *J Leukoc Biol*. 2020;108(5):1665-1671.
58. Huang J, Gao J, Zhu W, Feng R, Liu Q, Chen X, *et al*. Indicators and prediction models for the severity of Covid-19. *Int J Clin Pract*. 2021;75(10):1-16.

