

DAFTAR PUSTAKA

- Agnello, L., Giglio, R.V., Bivona, G., Scazzone, C., Gambino, C.M., Iacona, A., Ciaccio, A.M., Lo Sasso, B. and Ciaccio, M., 2021. The value of a complete blood count (CBC) for sepsis diagnosis and prognosis. *Diagnostics*, 11(10), p.1881. Althwaiqeb, S.A. And Bordoni, B., 2023. Histology, B Cell Lymphocyte. In Statpearls [Internet]. Statpearls Publishing.
- Ambar, N.S., 2020. Diagnosis Laboratorium Pada Covid-19. Proceeding Umsurabaya.
- Anaya, J.-M., 2013 *Autoimmunity: From Bench To Bedside*. Bogota: El Rosario University Press.
- Apovian, C.M., 2016. Obesity: Definition, Comorbidities, Causes, And Burden. *Am J Manag Care*, 22(7 Suppl), Pp.S176-85.
- Ashorobi, D. And Gohari, P., 2023. Essential Thrombocytosis. Statpearls [Internet].
- Awatade, N.T., Wark, P.A., Chan, A.S., Mamun, S.A.A., Mohd Esa, N.Y., Matsunaga, K., Rhee, C.K., Hansbro, P.M., Sohal, S.S. And Asian Pacific Society Of Respiriology (Apsr) Copd Assembly, 2023. The Complex Association Between Copd And Covid-19. *Journal Of Clinical Medicine*, 12(11), P.3791.
- Barbera, L.K., Kamis, K.F., Rowan, S.E., Davis, A.J., Shehata, S., Carlson, J.J., Johnson, S.C. and Erlandson, K.M., 2021. HIV and COVID-19: review of clinical course and outcomes. *HIV research & clinical practice*, 22(4), pp.102-118.
- Bertagnolio, S., Thwin, S.S., Silva, R., Nagarajan, S., Jassat, W., Fowler, R., Haniffa, R., Reveiz, L., Ford, N., Doherty, M. And Diaz, J., 2022. Clinical Features Of, And Risk Factors For, Severe Or Fatal Covid-19 Among People Living With Hiv Admitted To Hospital: Analysis Of Data From The Who Global Clinical Platform Of Covid-19. *The Lancet Hiv*, 9(7), Pp.E486-E495.
- Bienvenu, L.A., Noonan, J., Wang, X. and Peter, K., 2020. Higher mortality of COVID-19 in males: sex differences in immune response and cardiovascular comorbidities. *Cardiovascular research*, 116(14), pp.2197-2206.

- Bleeker, J.S. And Hogan, W.J., 2011. Thrombocytosis: Diagnostic Evaluation, Thrombotic Risk Stratification, And Risk-Based Management Strategies. *Thrombosis*, 2011(1), P.536062.
- Bonaventura, A., Vecchié, A., Dagna, L., Martinod, K., Dixon, D.L., Van Tassell, B.W., Dentali, F., Montecucco, F., Massberg, S., Levi, M. and Abbate, A., 2021. Endothelial dysfunction and immunothrombosis as key pathogenic mechanisms in COVID-19. *Nature Reviews Immunology*, 21(5), pp.319-329.
- Borkotoky, S., Dey, D. And Hazarika, Z., 2023. Interactions Of Angiotensin-Converting Enzyme-2 (Ace2) And Sars-Cov-2 Spike Receptor-Binding Domain (Rbd): A Structural Perspective. *Molecular Biology Reports*, 50(3), Pp.2713-2721.
- Bravo, E., Maldonado, I.L., Razo, M.A., Martinez, G.V. And Lopez, S., 2023. Association Of Neutrophil/Lymphocyte Ratio And Neutrophil/Lymphocyte Platelet Ratio With Acute Kidney Injury In Severe Covid-19. *Cureus*, 15(8).
- Burhan E, Susanto Ad, Nasution Sa, Dkk. Pedoman Tatalaksana Covid-19. Edisi Ke-3. Jakarta: Pdpi, Perki, Papdi, Perdatin, Idai; 2020.H.149.
- Cen, Y., Chen, X., Shen, Y., Zhang, X.H., Lei, Y., Xu, C., Jiang, W.R., Xu, H.T., Chen, Y., Zhu, J. And Zhang, L.L., 2020. Risk Factors For Disease Progression In Patients With Mild To Moderate Coronavirus Disease 2019—A Multi-Centre Observational Study. *Clinical Microbiology And Infection*, 26(9), Pp.1242-1247.
- Chen, N., Zhou, M., Dong, X., Qu, J., Gong, F., Han, Y., Qiu, Y., Wang, J., Liu, Y., Wei, Y. And Yu, T., 2020. Epidemiological And Clinical Characteristics Of 99 Cases Of 2019 Novel Coronavirus Pneumonia In Wuhan, China: A Descriptive Study. *The Lancet*, 395(10223), Pp.507-513.
- Chen, R., Sang, L., Jiang, M., Yang, Z., Jia, N., Fu, W., Xie, J., Guan, W., Liang, W., Ni, Z. and Hu, Y., 2020. Longitudinal hematologic and immunologic variations associated with the progression of COVID-19 patients in China. *Journal of Allergy and Clinical Immunology*, 146(1), pp.89-100.
- Chowdhury, S.D. And Oommen, A.M., 2020. Epidemiology Of Covid-19. *Journal Of Digestive Endoscopy*, 11(01), Pp.03-07.
- Da Rosa Mesquita, R., Francelino Silva Junior, L.C., Santos Santana, F.M., Farias De Oliveira, T., Campos Alcântara, R., Monteiro Arnozo, G., Rodrigues Da Silva Filho,

- E., Galdino Dos Santos, A.G., Oliveira Da Cunha, E.J., Salgueiro De Aquino, S.H. And Freire De Souza, C.D., 2021. Clinical Manifestations Of Covid-19 In The General Population: Systematic Review. *Wiener Klinische Wochenschrift*, 133(7), Pp.377-382.
- Delves, P.J., Martin, S.J., Burton, D.R. And Roitt, I.M., 2017. *Roitt's Essential Immunology*. John Wiley & Sons.
- Diao, B., Wang, C., Tan, Y., Chen, X., Liu, Y., Ning, L., Chen, L., Li, M., Liu, Y., Wang, G. And Yuan, Z., 2020. Reduction And Functional Exhaustion Of T Cells In Patients With Coronavirus Disease 2019 (Covid-19). *Frontiers In Immunology*, 11, P.827.
- Du, Y., Zhou, N., Zha, W. And Lv, Y., 2021. Hypertension Is A Clinically Important Risk Factor For Critical Illness And Mortality In Covid-19: A Meta-Analysis. *Nutrition, Metabolism And Cardiovascular Diseases*, 31(3), Pp.745-755.
- D'Silva, K.M., Serling-Boyd, N., Wallwork, R., Hsu, T., Fu, X., Gravallesse, E.M., Choi, H.K., Sparks, J.A. and Wallace, Z.S., 2020. Clinical characteristics and outcomes of patients with coronavirus disease 2019 (COVID-19) and rheumatic disease: a comparative cohort study from a US 'hot spot '. *Annals of the rheumatic diseases*, 79(9), pp.1156-1162.
- El-Khaiat, M.M., El-Leblah, A.M., Kesheita, M.A., Abdel-Samiee, M. And Teima, A.A.A., 2022. Association Between Thrombocytopenia And The Severity Of Covid-19 Infection Among Hospitalized Egyptian Patients. *Annals Of Medicine And Surgery*, 79, P.103973.
- Fatmawati, F. And Mulyanti, S., 2023. Risk Factors Associated With The Severity Of Covid-19. *The Malaysian Journal Of Medical Sciences: Mjms*, 30(3), P.84.
- Fifi, J.T. and Mocco, J., 2020. COVID-19 related stroke in young individuals. *The Lancet Neurology*, 19(9), pp.713-715.
- Fountain, J.H. And Lappin, S.L., 2017. *Physiology, Platelet*.
- Gameiro, J., Fonseca, J.A., Dias, J.M., Milho, J., Rosa, R., Jorge, S. And Lopes, J.A., 2018. Neutrophil, Lymphocyte And Platelet Ratio As A Predictor Of Postoperative Acute Kidney Injury In Major Abdominal Surgery. *Bmc Nephrology*, 19, Pp.1-8.

- Gameiro, J., Fonseca, J.A., Jorge, S., Gouveia, J. And Lopes, J.A., 2020. Neutrophil, Lymphocyte And Platelet Ratio As A Predictor Of Mortality In Septic-Acute Kidney Injury Patients. *Nefrología (English Edition)*, 40(4), Pp.461-468.
- Gu, S.X., Tyagi, T., Jain, K., Gu, V.W., Lee, S.H., Hwa, J.M., Kwan, J.M., Krause, D.S., Lee, A.I., Halene, S. and Martin, K.A., 2021. Thrombocytopeny and endotheliopathy: crucial contributors to COVID-19 thromboinflammation. *Nature Reviews Cardiology*, 18(3), pp.194-209.
- Guan, W.J., Liang, W.H., Zhao, Y., Liang, H.R., Chen, Z.S., Li, Y.M., Liu, X.Q., Chen, R.C., Tang, C.L., Wang, T. And Ou, C.Q., 2020. Comorbidity And Its Impact On 1590 Patients With Covid-19 In China: A Nationwide Analysis. *European Respiratory Journal*, 55(5).
- Guney, B.C., Hayiroglu, M., Senocak, D., Cicek, V., Cinar, T. And Kaplan, M., 2021. Evaluation Of N/Lp Ratio As A Predictor Of Disease Progression And Mortality In Covid-19 Patients Admitted To The Intensive Care Unit. *Medeniyet Medical Journal*, 36(3), P.241.
- Guo, Z., Zhang, Z., Prajapati, M. And Li, Y., 2021. Lymphopenia Caused By Virus Infections And The Mechanisms Beyond. *Viruses*, 13(9), P.1876.
- Hall, J.E., 2021. *Guyton and Hall Textbook of Medical Physiology*. 14th ed. Philadelphia: Elsevier.
- Hamad, H. And Mangla, A., 2019. Lymphocytosis.
- Hartoyo, E. And Hadi, D.R.K., 2023. Analisis Komparatif Neutrophil-To-Lymphocyte, Platelet-To-Lymphocyte Ratio, Monocyte-To-Lymphocyte Ratio Dan Derived Neutrophil-To-Lymphocyte Ratio Terkait Derajat Keparahan Covid-19 Pada Pasien Anak Di Rumah Sakit Umum Daerah Ulin Banjarmasin. *Sari Pediatri*, 24(6), Pp.359-69.
- Hemmat, N., Derakhshani, A., Bannazadeh Baghi, H., Silvestris, N., Baradaran, B. And De Summa, S., 2020. Neutrophils, Crucial, Or Harmful Immune Cells Involved In Coronavirus Infection: A Bioinformatics Study. *Frontiers In Genetics*, 11, P.641.
- Hidayani, W.R., 2020. Faktor Faktor Risiko Yang Berhubungan Dengan Covid 19: Literature Review. *Jurnal Untuk Masyarakat Sehat (Jukmas)*, 4(2), Pp.120-134.

- Hoffmann, T., Michel, J., Nitsche, A., Mache, C., Schulze, J., Wolff, T. and Laue, M., 2024. Electron microscopy images and morphometric data of SARS-CoV-2 variants in ultrathin plastic sections. *Scientific Data*, 11(1), p.1322.
- Hottz, E.D., Azevedo-Quintanilha, I.G., Palhinha, L., Teixeira, L., Barreto, E.A., Pão, C.R., Righy, C., Franco, S., Souza, T.M., Kurtz, P. and Bozza, F.A., 2020. Platelet activation and platelet-monocyte aggregate formation trigger tissue factor expression in patients with severe COVID-19. *Blood, The Journal of the American Society of Hematology*, 136(11), pp.1330-1341.
- Hu, B., Guo, H., Zhou, P. And Shi, Z.L., 2021. Characteristics Of Sars-Cov-2 And Covid-19. *Nature Reviews Microbiology*, 19(3), Pp.141-154.
- Jackson, C.B., Farzan, M., Chen, B. And Choe, H., 2022. Mechanisms Of Sars-Cov-2 Entry Into Cells. *Nature Reviews Molecular Cell Biology*, 23(1), Pp.3-20.
- Jamison Jr, D.A., Anand Narayanan, S., Trovão, N.S., Guarnieri, J.W., Topper, M.J., Moraes-Vieira, P.M., Zaksas, V., Singh, K.K., Wurtele, E.S. And Beheshti, A., 2022. A Comprehensive Sars-Cov-2 And Covid-19 Review, Part 1: Intracellular Overdrive For Sars-Cov-2 Infection. *European Journal Of Human Genetics*, 30(8), Pp.889-898.
- Jinna, S. And Khandhar, P.B., 2019. Thrombocytopenia.
- Jurk, K. And Kehrel, B.E., 2005, August. Platelets: Physiology And Biochemistry. In *Seminars In Thrombosis And Hemostasis* (Vol. 31, No. 04, Pp. 381-392). Copyright© 2005 By Thieme Medical Publishers, Inc., 333 Seventh Avenue, New York, Ny 10001, Usa..
- Kılıc, J., Ebik, B., Bacaksız, F., Ekin, N. And Sami Kalın, B., 2023. Is Lymphopenia A Predictor Of Mortality In Patients With Covid-19?. *Acta Clinica Croatica*, 62(1), Pp.82-87.
- Klein, S.L. and Flanagan, K.L., 2016. Sex differences in immune responses. *Nature Reviews Immunology*, 16(10), pp.626-638.
- Kobayashi, Y., 2008. The Role Of Chemokines In Neutrophil Biology. *Front Biosci*, 13(1), Pp.2400-7.
- Koo, C.H., Jung, D.E., Park, Y.S., Bae, J., Cho, Y.J., Kim, W.H. And Bahk, J.H., 2018. Neutrophil, Lymphocyte, And Platelet Counts And Acute Kidney Injury After

- Cardiovascular Surgery. *Journal Of Cardiothoracic And Vascular Anesthesia*, 32(1), Pp.212-222.
- Larosa, D.F. And Orange, J.S., 2008. 1. Lymphocytes. *Journal Of Allergy And Clinical Immunology*, 121(2), Pp.S364-S369.
- Levani, Y., Prasty, A.D. And Mawaddatunnadila, S., 2021. Coronavirus Disease 2019 (Covid-19): Patogenesis, Manifestasi Klinis Dan Pilihan Terapi. *Jurnal Kedokteran Dan Kesehatan*, 17(1), Pp.44-57.
- Liang, C., Zhang, W., Li, S. and Qin, G., 2021. Coronary heart disease and COVID-19: A meta-analysis. *Medicina Clínica (English Edition)*, 156(11), pp.547-554.
- Liang, M.H., 2006. Translating Outcomes Measurement In Experimental Therapeutics Of Systemic Rheumatic Disease To Patient Care. *Rheumatic Diseases Clinics Of North America*, 32(1), Pp.1-8.
- Lotfi, M., Hamblin, M.R. And Rezaei, N., 2020. Covid-19: Transmission, Prevention, And Potential Therapeutic Opportunities. *Clinica Chimica Acta*, 508, Pp.254-266.
- Lu, R., Zhao, X., Li, J., Niu, P., Yang, B., Wu, H., Wang, W., Song, H., Huang, B., Zhu, N. And Bi, Y., 2020. Genomic Characterisation And Epidemiology Of 2019 Novel Coronavirus: Implications For Virus Origins And Receptor Binding. *The Lancet*, 395(10224), Pp.565-574.
- Maia, R., Carvalho, V., Faria, B., Miranda, I., Catarino, S., Teixeira, S., Lima, R., Minas, G. And Ribeiro, J., 2022. Diagnosis Methods For Covid-19: A Systematic Review. *Micromachines*, 13(8), P.1349.
- Mantovani, A., Cassatella, M.A., Costantini, C. and Jaillon, S., 2011. Neutrophils in the activation and regulation of innate and adaptive immunity. *Nature reviews immunology*, 11(8), pp.519-531.
- Mandal, A. And Viswanathan, C., 2015. Natural Killer Cells: In Health And Disease. *Hematology/Oncology And Stem Cell Therapy*, 8(2), Pp.47-55.
- Mazzoni, A., Salvati, L., Maggi, L., Capone, M., Vanni, A., Spinicci, M., Mencarini, J., Caporale, R., Peruzzi, B., Antonelli, A. And Trotta, M., 2020. Impaired Immune Cell Cytotoxicity In Severe Covid-19 Is Il-6 Dependent. *The Journal Of Clinical Investigation*, 130(9), Pp.4694-4703.

- Mckenna, E., Wubben, R., Isaza-Correa, J.M., Melo, A.M., Mhaonaigh, A.U., Conlon, N., O'donnell, J.S., Ní Cheallaigh, C., Hurley, T., Stevenson, N.J. And Little, M.A., 2022. Neutrophils In Covid-19: Not Innocent Bystanders. *Frontiers In Immunology*, 13, P.864387.
- Mcelvaney, O.J., Mcevoy, N.L., Mcelvaney, O.F., Carroll, T.P., Murphy, M.P., Dunlea, D.M., Ní Choileáin, O., Clarke, J., O'connor, E., Hogan, G. And Ryan, D., 2020. Characterization Of The Inflammatory Response To Severe Covid-19 Illness. *American Journal Of Respiratory And Critical Care Medicine*, 202(6), Pp.812-821.
- Middeldorp, S., Coppens, M., van Haaps, T.F., Foppen, M., Vlaar, A.P., Müller, M.C., Bouman, C.C., Beenen, L.F., Kootte, R.S., Heijmans, J. and Smits, L.P., 2020. Incidence of venous thromboembolism in hospitalized patients with COVID-19. *Journal of Thrombosis and Haemostasis*, 18(8), pp.1995-2002.
- Nannoni, S., de Groot, R., Bell, S. and Markus, H.S., 2021. Stroke in COVID-19: a systematic review and meta-analysis. *International journal of stroke*, 16(2), pp.137-149.
- Naqvi, A.A.T., Fatima, K., Mohammad, T., Fatima, U., Singh, I.K., Singh, A., Atif, S.M., Hariprasad, G., Hasan, G.M. And Hassan, M.I., 2020. Insights Into Sars-Cov-2 Genome, Structure, Evolution, Pathogenesis And Therapies: Structural Genomics Approach. *Biochimica Et Biophysica Acta (Bba)-Molecular Basis Of Disease*, 1866(10), P.165878.
- National Cancer Institute (2019). *NCI Dictionary of Cancer Terms*. [online] National Cancer Institute. Available at: <https://www.cancer.gov/publications/dictionaries/cancer-terms/def/red-blood-cell>.
- Nishiga, M., Wang, D.W., Han, Y., Lewis, D.B. and Wu, J.C., 2020. COVID-19 and cardiovascular disease: from basic mechanisms to clinical perspectives. *Nature Reviews Cardiology*, 17(9), pp.543-558.
- Obuchowski, N.A. and Bullen, J.A., 2018. Receiver operating characteristic (ROC) curves: review of methods with applications in diagnostic medicine. *Physics in Medicine & Biology*, 63(7), p.07TR01.
- Pablos, J.L., Abasolo, L., Alvaro-Gracia, J.M., Blanco, F.J., Blanco, R., Castrejón, I., Fernandez-Fernandez, D., Fernandez-Gutierrez, B., Galindo-Izquierdo, M., Gonzalez-Gay, M.A. and Manrique-Arija, S., 2020. Prevalence of hospital PCR-confirmed

COVID-19 cases in patients with chronic inflammatory and autoimmune rheumatic diseases. *Annals of the rheumatic diseases*, 79(9), pp.1170-1173.

Parker, A., Boloko, L., Moolla, M.S., Ebrahim, N., Ayele, B.T., Broadhurst, A.G., Mashigo, B., Titus, G., De Wet, T., Boliter, N. And Rosslee, M.J., 2022. Clinical Features And Outcomes Of Covid-19 Admissions In A Population With A High Prevalence Of Hiv And Tuberculosis: A Multicentre Cohort Study. *Bmc Infectious Diseases*, 22(1), P.559.

Poissy, J., Goutay, J., Caplan, M., Parmentier, E., Duburcq, T., Lassalle, F., Jeanpierre, E., Rauch, A., Labreuche, J. and Susen, S., 2020. Pulmonary embolism in patients with COVID-19: awareness of an increased prevalence. *Circulation*, 142(2), pp.184-186.

Pollack, M.M., 2016. Severity Of Illness Confusion. *Pediatric Critical Care Medicine*, 17(6), P.583.

Popkin, B.M., Du, S., Green, W.D., Beck, M.A., Algaith, T., Herbst, C.H., Alsukait, R.F., Alluhidan, M., Alazemi, N. and Shekar, M., 2020. Individuals with obesity and COVID-19: a global perspective on the epidemiology and biological relationships. *Obesity reviews*, 21(11), p.e13128.

Rahi, M.S., Jindal, V., Reyes, S.P., Gunasekaran, K., Gupta, R. And Jaiyesimi, I., 2021. Hematologic Disorders Associated With Covid-19: A Review. *Annals Of Hematology*, 100, Pp.309-320.

Rahman, M. And Bordoni, B., 2023. Histology, Natural Killer Cells. In Statpearls [Internet]. Statpearls Publishing.

Ramamurthy, P., Rajashekhar, R., Kulkarni, A., Prabhu, D., Kumar, A., Ravindra, R. And Ramamurthy, P., 2022. Study Of Disease Severity And Outcomes In Covid-19 Patients With Chronic Kidney Disease At A Tertiary Care Hospital In South India. *Cureus*, 14(1).

Reusch, N., De Domenico, E., Bonaguro, L., Schulte-Schrepping, J., Baßler, K., Schultze, J.L. and Aschenbrenner, A.C., 2021. Neutrophils in COVID-19. *Frontiers in immunology*, 12, p.652470.

Rokkam, V.R. And Kotagiri, R., 2020. Secondary Thrombocytosis.

Russo, A., Pisaturo, M., Zollo, V., Martini, S., Maggi, P., Numis, F.G., Gentile, I., Sangiovanni, N., Rossomando, A.M., Bianco, V. And Calabria, G., 2023. Obesity As

A Risk Factor Of Severe Outcome Of Covid-19: A Pair-Matched 1: 2 Case–Control Study. *Journal Of Clinical Medicine*, 12(12), P.4055.

Santoro, F., Nuñez-Gil, I.J., Vitale, E., Viana-Llamas, M.C., Reche-Martinez, B., Romero-Pareja, R., Guzman, G.F., Rozas, I.F., Uribarri, A., Becerra-Muñoz, V.M. and Alfonso-Rodriguez, E., 2022. Antiplatelet therapy and outcome in COVID-19: the health outcome predictive evaluation registry. *Heart*, 108(2), pp.130-136.

Sauls, R.S., Mccausland, C. And Taylor, B.N., 2018. Histology, T-Cell Lymphocyte.

Savale, S.K., 2021. NOVEL CORONA VIRUS [COVID-19]-A RECENT OVERVIEW.

Shi, J., Wen, Z., Zhong, G., Yang, H., Wang, C., Huang, B., Liu, R., He, X., Shuai, L., Sun, Z. And Zhao, Y., 2020. Susceptibility Of Ferrets, Cats, Dogs, And Other Domesticated Animals To Sars–Coronavirus 2. *Science*, 368(6494), Pp.1016-1020.

Shi, Y., Yang, C., Chen, L., Cheng, M. And Xie, W., 2022. Predictive Value Of Neutrophil-To-Lymphocyte And Platelet Ratio In In-Hospital Mortality In Septic Patients. *Heliyon*, 8(11).

Singh, D., Mathioudakis, A.G. And Higham, A., 2022. Chronic Obstructive Pulmonary Disease And Covid-19: Interrelationships. *Current Opinion In Pulmonary Medicine*, 28(2), Pp.76-83.

Su, X., Zhao, S. And Zhang, N., 2023. Admission Nlpr Predicts Long-Term Mortality In Patients With Acute Ischemic Stroke: A Retrospective Analysis Of The MIMIC-III Database. *Plos One*, 18(8), P.E0283356.

Syed-Ahmed, M. And Narayanan, M., 2019. Immune Dysfunction And Risk Of Infection In Chronic Kidney Disease. *Advances In Chronic Kidney Disease*, 26(1), Pp.8-15.

Tahavvori, A., Mosaddeghi-Heris, R., Ghanbari Sevari, F., Alavi, S.M.A., Panahi, P., Abbasi, N., Rahmani Youshanlouei, H. And Hejazian, S.S., 2023. Combined Systemic Inflammatory Indexes As Reflectors Of Outcome In Patients With Covid-19 Infection Admitted To ICU. *Inflammopharmacology*, 31(5), Pp.2337-2348.

Tahir, N. And Zahra, F., 2021. Neutrophilia.

- Tessaro, F.H.G., Ayala, T.S., Bella, L.M. And Martins, J.O., 2020. Macrophages From A Type 1 Diabetes Mouse Model Present Dysregulated PI3k/Akt, Erk 1/2 And Sapk/Jnk Levels. *Immunobiology*, 225(2), P.151879.
- Tigner, A., Ibrahim, S.A. And Murray, I., 2020. *Histology, White Blood Cell*.
- Toori, K.U., Qureshi, M.A. And Chaudhry, A., 2021. Lymphopenia: A Useful Predictor Of Covid-19 Disease Severity And Mortality. *Pakistan Journal Of Medical Sciences*, 37(7), P.1984.
- Trayhurn, P., 2022. Adipokines: inflammation and the pleiotropic role of white adipose tissue. *British Journal of Nutrition*, 127(2), pp.161-164.
- Umut, G., Ugur, L., Irfan, A., Kasim, T., Erdal, Y., Hakan, K., Hüseyin, K., Ebru, A., Cihad, S., Abdullah, A. and Ercan, K., 2023. Clinical value of Inflammatory biomarkers in determining severity of COVID-19. *Journal of Acute Medicine*, 13(2), p.58.
- Vaillant, A.J., Rout, P., Reynolds, S. And Zito, P., 2024. Neutropenia. *Statpearls*.
- Vivarelli, S., Falzone, L., Grillo, C.M., Scandurra, G., Torino, F. And Libra, M., 2020. Cancer Management During Covid-19 Pandemic: Is Immune Checkpoint Inhibitors-Based Immunotherapy Harmful Or Beneficial?. *Cancers*, 12(8), P.2237.
- WHO (2023). *Weekly epidemiological update on COVID-19 - 1 September 2023*. [online] [www.who.int](https://www.who.int/publications/m/item/weekly-epidemiological-update-on-covid-19---1-september-2023). Available at: <https://www.who.int/publications/m/item/weekly-epidemiological-update-on-covid-19---1-september-2023>.
- Williams, O. And Sergent, S.R., 2020. *Histology, Platelets*.
- Williamson, E.J., Walker, A.J., Bhaskaran, K., Bacon, S., Bates, C., Morton, C.E., Curtis, H.J., Mehrkar, A., Evans, D., Inglesby, P. And Cockburn, J., 2020. Factors Associated With Covid-19-Related Death Using Opensafely. *Nature*, 584(7821), Pp.430-436.
- World Health Organization, Who Covid-19., 2024. Covid-19 Epidemiological Update.
- World Health Organization, Who Corona R.I., 2024. Update Laporan Harian Perkembangan Kasus Covid-19.
- World Health Organization, 2022. Who Director-General's Opening Remarks At The Media Briefing On Covid-19. January, 30.

World Health Organization (2024). *COVID-19 deaths | WHO COVID-19 dashboard*. [online] World Health Organization Data.

Yang, A.P., Liu, J.P., Tao, W.Q. and Li, H.M., 2020. The diagnostic and predictive role of NLR, d-NLR and PLR in COVID-19 patients. *International immunopharmacology*, 84, p.106504.

Yang, H., Xu, J., Liang, X., Shi, L. And Wang, Y., 2021. Autoimmune Diseases Are Independently Associated With Covid-19 Severity: Evidence Based On Adjusted Effect Estimates. *Journal Of Infection*, 82(4), Pp.E23-E26.

Yang, X., Yang, Q., Wang, Y., Wu, Y., Xu, J., Yu, Y. And Shang, Y., 2020. Thrombocytopenia And Its Association With Mortality In Patients With Covid-19. *Journal Of Thrombosis And Haemostasis*, 18(6), Pp.1469-1472.

Yildiz, A., Yigit, A. and Benli, A.R., 2018. The prognostic role of platelet to lymphocyte ratio and mean platelet volume in critically ill patients. *European Review for Medical & Pharmacological Sciences*, 22(8).

Zaid, Y., Puhm, F., Allaeyes, I., Naya, A., Oudghiri, M., Khalki, L., Limami, Y., Zaid, N., Sadki, K., Ben El Haj, R. and Mahir, W., 2020. Platelets can associate with SARS-CoV-2 RNA and are hyperactivated in COVID-19. *Circulation research*, 127(11), pp.1404-1418.

Zhang, T., Wu, Q. And Zhang, Z., 2020. Probable Pangolin Origin Of Sars-Cov-2 Associated With The Covid-19 Outbreak. *Current Biology*, 30(7), Pp.1346-1351.

Zheng, Y.Y., Ma, Y.T., Zhang, J.Y. and Xie, X., 2020. COVID-19 and the cardiovascular system. *Nature reviews cardiology*, 17(5), pp.259-260.

Zhou, P., Yang, X.L., Wang, X.G., Hu, B., Zhang, L., Zhang, W., Si, H.R., Zhu, Y., Li, B., Huang, C.L. And Chen, H.D., 2020. A Pneumonia Outbreak Associated With A New Coronavirus Of Probable Bat Origin. *Nature*, 579(7798), Pp.270-273.

Zhu, N., Zhang, D., Wang, W., Li, X., Yang, B., Song, J., Zhao, X., Huang, B., Shi, W., Lu, R. And Niu, P., 2020. A Novel Coronavirus From Patients With Pneumonia In China, 2019. *New England Journal Of Medicine*, 382(8), Pp.727-733.