

## DAFTAR PUSTAKA

- Aggarwal, G., Lippi, G. dan Michael Henry, B. (2020). Cerebrovascular disease is associated with an increased disease severity in patients with Coronavirus Disease 2019 (COVID-19): A pooled analysis of published literature. *International Journal of Stroke*, 15(4):385–389.
- Alqahtani, J.S., Oyelade, T., Aldhahir, A.M., Alghamdi, S.M., Almeahmadi, M., Alqahtani, A.S., Quaderi, S., *et al.* (2020). Prevalence, severity and mortality associated with COPD and smoking in patients with COVID-19: A rapid systematic review and meta-analysis. *PLoS ONE*, 15(5):1–13.
- Aslan, A., Aslan, C., Zolbanin, N.M. dan Jafari, R. (2021). Acute respiratory distress syndrome in COVID-19: possible mechanisms and therapeutic management. *Pneumonia, BioMed Central*. 13(1), tersedia pada:<https://doi.org/10.1186/s41479-021-00092-9>.
- Azagew, A.W., Beko, Z.W., Ferede, Y.M., Mekonnen, H.S., Abate, H.K. dan Mekonnen, C.K. (2023). Global prevalence of COVID-19-induced acute respiratory distress syndrome: systematic review and meta-analysis. *Systematic Reviews, BioMed Central*. 12(1):1–9.
- Bellani, G., Laffey, J.G., Pham, T., Madotto, F., Fan, E., Brochard, L., Esteban, A., *et al.* (2017). Noninvasive Ventilation of Patients with Acute Respiratory Distress Syndrome: Insights from the LUNG SAFE Study. *American Journal of Respiratory and Critical Care Medicine*, 195(1):67–77.
- Bernard, G.R., Artigas, A., Brigham, K.L., Carlet, J., Falke, K., Hudson, L., Lamy, M., *et al.* (1994). Definitions , Mechanisms , Relevant Outcomes , and Clinical Trial Coordination. *Critical Care Medicine*, 149:818–824.
- Bhat, S., Rishi, P. dan Chadha, V.D. (2020). 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 , (January).
- Bhattacharya, S., Sadhukhan, D. dan Saraswathy, R. (2024). Role of sex in immune response and epigenetic mechanisms. *Epigenetics and Chromatin, BioMed Central*. 17(1):1–13.
- Bloom, C.I., Drake, T.M., Docherty, A.B., Lipworth, B.J., Johnston, S.L., Nguyen-Van-Tam, J.S., Carson, G., *et al.* (2021). Risk of adverse outcomes in patients with underlying respiratory conditions admitted to hospital with COVID-19: a national, multicentre prospective cohort study using the ISARIC WHO Clinical Characterisation Protocol UK. *Respiratory*, 9(July).
- Burhan, E., Susanto, A.D., Nasution, S.A., Eka, G., Pitoyo, ceva W., Susilo, A., Firdaus, I., *et al.* (2022). *Pedoman Tatalaksana COVID-19*. diedit oleh Burhan, E., Susanto, A.D., Isbaniah, F., Nasution, S.A., Ginanjar, E., Pitoyo, C.W., Susilo, A., *et al.* *Pedoman tatalaksana COVID-19 edisi 4*. 4 ed.
- Cao, W., Liu, X., Bai, T., Fan, H., Hong, K., Song, H., Han, Y., *et al.* (2020). High-dose intravenous immunoglobulin as a therapeutic option for deteriorating

- patients with coronavirus disease 2019. *Open Forum Infectious Diseases*, 7(3):1–6.
- Cavalli, G., Luca, G. De, Campochiaro, C., Della-Torre, E., Marco Ripa, Diana Canetti, Chiara Oltolini, Barbara Castiglioni, Chiara Tassan Din, N.B., Tomelleri, A., Farina, N., *et al.* (2020). Interleukin-1 blockade with high-dose anakinra in patients with COVID-19, acute respiratory distress syndrome, and hyperinflammation: a retrospective cohort study, (*January*):19–21.
- Chan, E.D., Chan, M.M. dan Chan, M.M. (2013). Pulse oximetry: Understanding its basic principles facilitates appreciation of its limitations. *Respiratory Medicine, Elsevier Ltd.* 107(6):789–799.
- Cheng, Y., Ran Luo, Wang, K., Meng, Z., Zhixiang, W., Dong, L., Li, J., *et al.* (2020). Kidney disease is associated with in-hospital death of patients with COVID-19. *Kidney International*, 829–838.
- Clark, A., Jit, M., Warren-Gash, C., Guthrie, B., Wang, H.H.X., Mercer, S.W., Sanderson, C., *et al.* (2020). Global, regional, and national estimates of the population at increased risk of severe COVID-19 due to underlying health conditions in 2020: a modelling study. *The Lancet Global Health*, 8(8):e1003–e1017.
- Comoglu, S. dan Kant, A. (2022). Does the Charlson comorbidity index help predict the risk of death in COVID-19 patients? *Northern Clinics of Istanbul*, 9(2):117–121.
- Coudroy, R., Frat, J.P., Boissier, F., Contou, D., Robert, R. dan Thille, A.W. (2018). Early identification of acute respiratory distress syndrome in the absence of positive pressure ventilation: Implications for revision of the Berlin criteria for acute respiratory distress syndrome. *Critical Care Medicine*, 46(4):540–546.
- Docherty, A.B., Harrison, E.M., Green, C.A., Hardwick, H.E., Pius, R., Norman, L., Holden, K.A., *et al.* (2020). Features of 20 133 UK patients in hospital with covid-19 using the ISARIC WHO Clinical Characterisation Protocol: Prospective observational cohort study. *The BMJ*, 369(March):1–12.
- Duan, K., Liu, B., Li, C., Zhang, H., Yu, T., Qu, J., Zhou, M., *et al.* (2020). Effectiveness of convalescent plasma therapy in severe COVID-19 patients. *Proceedings of the National Academy of Sciences of the United States of America*, 117(17):9490–9496.
- Ellinghaus, D., Degenhardt, F., Bujanda, L., Buti, M., Albillos, A., Invernizzi, P., Fernández, J., *et al.* (2020). Genomewide Association Study of Severe Covid-19 with Respiratory Failure. *New England Journal of Medicine*, 383(16):1522–1534.
- Fatoni, A.Z. dan Rakhmatullah, R. (2021). Acute Respiratory Distress Syndrome (ARDS) pada Pneumonia COVID-19. *Journal of Anaesthesia and Pain*, 2(1):11–24.
- Fuentes, S. dan Chowdhury, Y. (2021). Fraction of Inspired Oxygen - StatPearls - NCBI Bookshelf. *National Center for Biotechnology Information*, tersedia pada: <https://www.ncbi.nlm.nih.gov/books/NBK560867/>.
- Ge, E., Li, Y., Wu, S., Candido, E. dan Wei, X. (2021). Association of pre-existing comorbidities with mortality and disease severity among 167,500 individuals with COVID-19 in Canada: A population-based cohort study. *PLoS ONE*,

16(10 October):1–18.

- Gibson, P.G., Qin, L. dan Puah, S.H. (2020). COVID-19 acute respiratory distress syndrome (ARDS): clinical features and differences from typical pre-COVID-19 ARDS. *Medical Journal of Australia*, 213(2):54-56.e1.
- Van Goethem, N., Chung, P.Y.J., Meurisse, M., Vandromme, M., De Mot, L., Brondeel, R., Stouten, V., *et al.* (2022). Clinical Severity of SARS-CoV-2 Omicron Variant Compared with Delta among Hospitalized COVID-19 Patients in Belgium during Autumn and Winter Season 2021–2022. *Viruses*, 14(6), tersedia pada:<https://doi.org/10.3390/v14061297>.
- Grasselli, G., Zangrillo, A., Zanella, A., Antonelli, M., Cabrini, L., Castelli, A., Cereda, D., *et al.* (2020). Baseline Characteristics and Outcomes of 1591 Patients Infected with SARS-CoV-2 Admitted to ICUs of the Lombardy Region, Italy. *JAMA - Journal of the American Medical Association*, 323(16):1574–1581.
- Griffith, D.M., Sharma, G., Holliday, C.S., Enyia, O.K., Valliere, M., Semlow, A.R., Stewart, E.C., *et al.* (2020). Men and COVID-19: A biopsychosocial approach to understanding sex differences in mortality and recommendations for practice and policy interventions. *Preventing Chronic Disease*, 17:1–9.
- Gujski, M., Jankowski, M., Rabczenko, D., Goryński, P. dan Juszczak, G. (2022). The Prevalence of Acute Respiratory Distress Syndrome (ARDS) and Outcomes in Hospitalized Patients with COVID-19—A Study Based on Data from the Polish National Hospital Register. *Viruses*, 14(1), tersedia pada:<https://doi.org/10.3390/v14010076>.
- Guo, W., Li, M., Dong, Y., Zhou, H., Zhang, Z., Tian, C., Qin, R., *et al.* (2020). Diabetes is a risk factor for the progression and prognosis of COVID-19. *Diabetes/Metabolism Research and Reviews*, 36(7):1–9.
- Haas, E.J., Angulo, F.J., McLaughlin, J.M., Anis, E., Singer, S.R., Khan, F., Brooks, N., *et al.* (2021). Impact and effectiveness of mRNA BNT162b2 vaccine against SARS-CoV-2 infections and COVID-19 cases, hospitalisations, and deaths following a nationwide vaccination campaign in Israel: an observational study using national surveillance data. *Lancet*, 397(May):1819–29.
- Hasan, S.S., Capstick, T., Ahmed, R., Kow, C.S., Mazhar, F., Merchant, H. a. dan Zaidi, S.T.R. (2020). Mortality in COVID-19 patients with acute respiratory distress syndrome and corticosteroids use: a systematic review and meta-analysis. *Expert Review of Respiratory Medicine*, Taylor & Francis. 14(11):1149–1163.
- Horby, P., Lim, W.S., Emberson, J.R., Mafham, M., Bell, J.L., Linsell, L., D.Phil., *et al.* (2021). Dexamethasone in Hospitalized Patients with Covid-19. *New England Journal of Medicine*, 384(8):693–704.
- Hu, B., Guo, H., Zhou, P. dan Shi, Z.-L. (2019). Characteristics of SARS-CoV-2 and COVID-19. *Nature Reviews Microbiology*, Springer US. (December), tersedia pada:<https://doi.org/10.1038/s41579-020-00459-7>.
- Huang, I., Lim, M.A. dan Pranata, R. (2020). Diabetes mellitus is associated with increased mortality and severity of disease in COVID-19 pneumonia e A systematic review, metaanalysis, and meta-regression. *Diabetes & Metabolic*

*Syndrome: Clinical Research & Reviews, (April):395e403.*

- Inciardi, R.M., Adamo, M., Lupi, L., Cani, D.S., Di Pasquale, M., Tomasoni, D., Italia, L., *et al.* (2020). Characteristics and outcomes of patients hospitalized for COVID-19 and cardiac disease in Northern Italy. *European Heart Journal*, 41(19):1821–1829.
- Janipalli, V.P. dan Moturi, P.K. (2020). Comparison of SpO<sub>2</sub> / FiO<sub>2</sub> Ratio and PaO<sub>2</sub> / FiO<sub>2</sub> Ratio as Diagnostic Criteria in Patients with ALI and ARDS. *Journal of Evidence Based Medicine and Healthcare*, 7(44):2520–2525.
- Jin, J.M., Bai, P., He, W., Wu, F., Liu, X.F., Han, D.M., Liu, S., *et al.* (2020). Gender Differences in Patients With COVID-19: Focus on Severity and Mortality. *Frontiers in Public Health*, 8(April):1–6.
- Jung, R.G., Di Santo, P., Clifford, C., Prosperi-Porta, G., Skanes, S., Hung, A., Parlow, S., *et al.* (2021). Methodological quality of COVID-19 clinical research. *Nature Communications, Springer US*. 12(1):1–10.
- Keith, P., Day, M., Perkins, L., Moyer, L., Hewitt, K. dan Wells, A. (2020). A novel treatment approach to the novel coronavirus: An argument for the use of therapeutic plasma exchange for fulminant COVID-19. *Critical Care, Critical Care*. 24(1):1–3.
- Klein, S.L. dan Flanagan, K.L. (2016). Sex differences in immune responses. *Nature Reviews Immunology, Nature Publishing Group*. 16(10):626–638.
- Leng, Z., Zhu, R., Hou, W., Feng, Y., Yang, Y., Han, Q., Shan, G., *et al.* (2020). Transplantation of ACE2- Mesenchymal stem cells improves the outcome of patients with covid-19 pneumonia. *Ageing and Disease*, 11(2):216–228.
- Li, B., Yang, J., Zhao, F., Zhi, L., Wang, X., Liu, L., Bi, Z., *et al.* (2020). Prevalence and impact of cardiovascular metabolic diseases on COVID-19 in China. *Clinical Research in Cardiology*, 109(5):531–538.
- Li, X. dan Ma, X. (2020). Acute respiratory failure in COVID-19: Is it “typical” ARDS? *Critical Care*, 24(1):1–5.
- Liu, J., Li, S., Liu, J., Liang, B., Wang, X., Wang, H., Li, W., *et al.* (2020). Longitudinal characteristics of lymphocyte responses and cytokine profiles in the peripheral blood of SARS-CoV-2 infected patients. *EBioMedicine*, 55, tersedia pada: <https://doi.org/10.1016/j.ebiom.2020.102763>.
- Lutz, W., Sanderson, W. dan Scherbov, S. (2008). The coming acceleration of global population ageing. *Nature*, 451(7179):716–719.
- Matthay, M.A., Zemans, R.L., Zimmerman, G.A., Arabi, Y.M., Beitler, J.R., Mercat, A., Herridge, M., *et al.* (2018). Acute respiratory distress syndrome. *Nature Reviews Disease Primers, Springer US*. 5(1), tersedia pada: <https://doi.org/10.1038/s41572-019-0069-0>.
- Meini, S., Zanichelli, A., Sbrojavacca, R., Iuri, F., Roberts, A.T., Suffritti, C. dan Tascini, C. (2020). Understanding the Pathophysiology of COVID-19: Could the Contact System Be the Key? *Frontiers in Immunology*, 11(August):1–9.
- Meng, J., Xiao, G., Zhang, J., He, X., Ou, M., Bi, J., Yang, R., *et al.* (2020). Renin-angiotensin system inhibitors improve the clinical outcomes of COVID-19 patients with hypertension. *Emerging Microbes and Infections*, 9(1):757–760.
- Nadim, M.K., Forni, L.G., Mehta, R.L., Connor, M.J., Liu, K.D., Ostermann, M., Rimmelé, T., *et al.* (2020). COVID-19-associated acute kidney injury:



- consensus report of the 25th Acute Disease Quality Initiative (ADQI) Workgroup. *Nature Reviews Nephrology, Springer US*. 16(12):747–764.
- Pandharipande, P.P., Shintani, A.K., Hagerman, H.E., Paul J. St Jacques, M., Rice, T.W., Sanders, N.W. dan Lorraine B. Ware, MD\*\*, Gordon R. Bernard, MD\*\*, and E. Wesley Ely, MD, M. (2009). Derivation and validation of SpO<sub>2</sub> /FiO<sub>2</sub> ratio to impute for PaO<sub>2</sub> / FiO<sub>2</sub> ratio in the respiratory component of the Sequential Organ Failure Assessment (SOFA) Score. *Crit Care Med.*, (37(4)):1317–1321.
- Patel, S., Singh, G., Zarbiv, S., Ghiassi, K. dan Rachoin, J.S. (2021). Mortality Prediction Using SaO<sub>2</sub>/FiO<sub>2</sub> Ratio Based on eICU Database Analysis. *Critical Care Research and Practice*, 2021, tersedia pada:<https://doi.org/10.1155/2021/6672603>.
- Petrilli, C.M., Jones, S.A., Yang, J., Rajagopalan, H., O'Donnell, L., Chernyak, Y., Tobin, K.A., *et al.* (2020). Factors associated with hospital admission and critical illness among 5279 people with coronavirus disease 2019 in New York City: Prospective cohort study. *The BMJ*, 369, tersedia pada:<https://doi.org/10.1136/bmj.m1966>.
- Pfortmueller, C.A., Spinetti, T., Urman, R.D., Luedi, M.M. dan Schefold, J.C. (2021). COVID-19-associated acute respiratory distress syndrome (CARDS): Current knowledge on pathophysiology and ICU treatment - A narrative review. *Best Practice & Research Clinical Anaesthesiology*, 35:351–368.
- Rakhmatullah, R. dan Sudjud, R.W. (2019a). Diagnosis dan Tatalaksana ARDS Diagnosis and Management of ARDS. *Anestesia dan Critical Care*, 37(2):58–68.
- Rakhmatullah, R. dan Sudjud, R.W. (2019b). Diagnosis dan Tatalaksana ARDS. *Anestesia dan Critical Care*, 37(2):58–68.
- Ranieri, V.M., Rubenfeld, G.D., Thompson, B.T., Ferguson, N.D., Caldwell, E., Fan, E., Camporota, L., *et al.* (2012). Acute respiratory distress syndrome: The Berlin definition. *Jama*, 307(23):2526–2533.
- Rice, T.W., Wheeler, A.P., Bernard, G.R., Hayden, D.L., Schoenfeld, D.A. dan Ware, L.B. (2007). Comparison of the SpO<sub>2</sub>/FIO<sub>2</sub> ratio and the PaO<sub>2</sub> /FIO<sub>2</sub> ratio in patients with acute lung injury or ARDS. *Chest*, 132(2):410–417.
- Richardson, S., Hirsch, J.S., Narasimhan, M., Crawford, J.M., McGinn, T., Davidson, K.W., Barnaby, D.P., *et al.* (2020). Presenting Characteristics, Comorbidities, and Outcomes among 5700 Patients Hospitalized with COVID-19 in the New York City Area. *JAMA - Journal of the American Medical Association*, 323(20):2052–2059.
- Riviello, E.D., Kiviri, W., Twagirumugabe, T., Mueller, A., Banner-Goodspeed, V.M., Officer, L., Novack, V., *et al.* (2016). Hospital incidence and outcomes of the acute respiratory distress syndrome using the Kigali modification of the Berlin definition. *American Journal of Respiratory and Critical Care Medicine*, 193(1):52–59.
- Rogers, R.G., Everett, B.G., Onge, J.M.S. dan Krueger, P.M. (2010). Social, behavioral, and biological factors, and sex differences in mortality. *Demography*, 47(3):555–578.
- Rowling, S.C., Fløjstrup, M., Henriksen, D.P., Hallenberg, B.V.C., Lindholt, J.S.,

- Alberg-Fløjborg, A., Nanayakkara, P.W.B., *et al.* (2022). Arterial blood gas analysis: as safe as we think? A multicentre historical cohort study. *ERJ Open Research*, 8(1), tersedia pada:<https://doi.org/10.1183/23120541.00535-2021>.
- Salama, C., Han, J., Yau, L., Reiss, W.G., Kramer, B., Neidhart, J.D., Criner, G.J., *et al.* (2021). Tocilizumab in Patients Hospitalized with Covid-19 Pneumonia. *New England Journal of Medicine*, 384(1):20–30.
- Satici, M.O., Islam, M.M., Satici, C. dan Prof, A. (2022). The role of a noninvasive index “Spo2/ Fio2” in predicting mortality among patients with COVID-19 pneumonia. *American Journal of Emergency Medicine journal homepage*, 57(January):54–59.
- Schaefer, E.T., Fitzgerald, J.F., Molleston, J.P., Croffie, J.M., Pfefferkorn, M.D., Corkins, M.R., Lim, J.D., *et al.* (2008). Comparison of Oral Prednisone and Topical Fluticasone in the Treatment of Eosinophilic Esophagitis: A Randomized Trial in Children. *Clinical Gastroenterology and Hepatology*, 6(2):165–173.
- Shahid, Z., Kalayanamitra, R., McClafferty, B., Kepko, D., Ramgobin, D., Patel, R., Aggarwal, C.S., *et al.* (2020). COVID-19 and Older Adults: What We Know. *Journal of the American Geriatrics Society*, 68(5):926–929.
- Sherren, P.B., Ostermann, M., Agarwal, S., Meadows, C.I.S., Ioannou, N. dan Camporota, L. (2020). COVID-19 related organ dysfunction and management strategies on the intensive care unit. *British Journal of Anaesthesia, British Journal of Anaesthesia*, tersedia pada:<https://doi.org/10.1016/j.bja.2020.08.050>.
- Sine, C.R., Belenkiy, S.M., Buel, A.R., Waters, J.A., Lundy, J.B., Henderson, J.L., Stewart, I.J., *et al.* (2016). Acute Respiratory Distress Syndrome in Burn Patients: A Comparison of the Berlin and American-European Definitions. *Journal of Burn Care and Research*, 37(5):e461–e469.
- Thille, A.W., Esteban, A., Fernández-Segoviano, P., Rodriguez, J.M., Aramburu, J.A., Peñuelas, O., Cortés-Puch, I., *et al.* (2013). Comparison of the berlin definition for acute respiratory distress syndrome with autopsy. *American Journal of Respiratory and Critical Care Medicine*, 187(7):761–767.
- Tuty Kuswardhani, R.A., Henrina, J., Pranata, R., Anthonius Lim, M., Lawrensia, S. dan Suastika, K. (2020). Charlson comorbidity index and a composite of poor outcomes in COVID-19 patients: A systematic review and meta-analysis. *Diabetes and Metabolic Syndrome: Clinical Research and Reviews*, 14(6):2103–2109.
- Tzotzos, S.J., Fischer, B., Fischer, H. dan Zeitlinger, M. (2020). Incidence of ARDS and outcomes in hospitalized patients with COVID-19: A global literature survey. *Critical Care, Critical Care*. 24(1):1–4.
- Vabret, N., Britton, G.J., Gruber, C., Hegde, S., Kim, J., Kuksin, M., Levantovsky, R., *et al.* (2020). Immunology of COVID-19: Current State of the Science. *Immunity*, 52(6):910–941.
- Wang, D., Hu, B., Hu, C., Zhu, F., Liu, X., Zhang, J., Wang, B., *et al.* (2020). Clinical Characteristics of 138 Hospitalized Patients with 2019 Novel Coronavirus-Infected Pneumonia in Wuhan, China. *JAMA - Journal of the American Medical Association*, 323(11):1061–1069.

- Welker, C., Huang, J., Gil, I.J.N. dan Ramakrishna, H. (2022). 2021 Acute Respiratory Distress Syndrome Update, With Coronavirus Disease 2019 Focus. *Journal of Cardiothoracic and Vascular Anesthesia*, 36(4):1188–1195.
- West, J.B. (2012). *Respiratory Physiology: The Essentials*. Lippincott., Philadelphia.
- Wiersinga, W.J., Rhodes, A., Cheng, A.C., Peacock, S.J. dan Prescott, H.C. (2020). Pathophysiology, Transmission, Diagnosis, and Treatment of Coronavirus Disease 2019 (COVID-19): A Review. *JAMA - Journal of the American Medical Association*, 324(8):782–793.
- Wilson-Baig, N., McDonnell, T. dan Bentley, A. (2021). Discrepancy between SpO2 and SaO2 in patients with COVID-19. *Anaesthesia*, 76(S3):6–7.
- World Health Organization. (2021). WHO Coronavirus Disease (COVID-19) Dashboard With Vaccination Data | WHO Coronavirus (COVID-19) Dashboard With Vaccination Data. *World Health Organization*.
- Wu, Z. dan McGoogan, J.M. (2020). Characteristics of and Important Lessons From the Coronavirus Disease 2019 (COVID-19) Outbreak in China. *Jama*, 323(13):1239.
- Zhang, P., Zhu, L., Cai, J., Lei, F., Qin, J.J., Xie, J., Liu, Y.M., *et al.* (2020). Association of Inpatient Use of Angiotensin-Converting Enzyme Inhibitors and Angiotensin II Receptor Blockers with Mortality among Patients with Hypertension Hospitalized with COVID-19. *Circulation Research*, 126(12):1671–1681.
- Zhang, X. Bin, Hu, L., Ming, Q., Wei, X.J., Zhang, Z.Y., Chen, L. Da, Wang, M.H., *et al.* (2021). Risk factors for mortality of coronavirus disease-2019 (COVID-19) patients in two centers of Hubei province, China: A retrospective analysis. *PLoS ONE*, 16(1 January):1–15.
- Zhou, F., Yu, T., Du, R., Fan, G., Liu, Y., Liu, Z., Xiang, J., *et al.* (2020). Clinical Course and Risk Factors for Mortality of Adult Inpatients with COVID-19 in Wuhan. *The Lancet*, 395(January):1054–62.