

## DAFTAR PUSTAKA

- Acosta HA, Garrigos ZE, M., Vijayvargiya, 2022. COVID-19 Pathogenesis and Clinical Manifestations. *Infect. Dis. Clin. North Am.* 36: 231–249.
- Al-Shareef, A.S., Shirah, B., Dabroom, M., Ahmed, M.M., Aljohani, K.A., Al Dabbagh, M.A., Ramadan, M., Hakami, F., 2022. Cycle Threshold Value as a Predictor of Severity and Intensive Care Unit Admission for Children Presenting to the Emergency Department With COVID-19: A Single-Center Experience From Saudi Arabia. *Cureus* 14: 6;14.
- Artika, I.M., Dewi, Y.P., Nainggolan, I.M., Siregar, J.E., Antonjaya, U., 2022. Real-Time Polymerase Chain Reaction: Current Techniques, Applications, and Role in COVID-19 Diagnosis. *Genes (Basel)*. 13.
- Arya, R., Kumari, S., Pandey, B., Mistry, H., Bihani, S.C., Das, A., Prashar, V., Gupta, G.D., Panicker, L., Kumar, M., 2021. Structural insights into SARS-CoV-2 proteins. *J. Mol. Biol.* 433: 166725.
- Atnaf, A., Shiferaw, A.A., Tamir, W., Akelew, Y., Toru, M., Tarekegn, D., Bewket, B., Reta, A., 2022. Hematological Profiles and Clinical Outcome of COVID-19 Among Patients Admitted at Debre Markos Isolation and Treatment Center, 2020: A Prospective Cohort Study. *J. Blood Med.* 13: 631–641.
- Banerjee, M., Gupta, S., Sharma, P., Shekhawat, J., Gauba, K., 2020. Obesity and COVID-19: A Fatal Alliance. *Indian J. Clin. Biochem.* 35: 410–417.
- Baradaran, Ashkan, Ebrahimzadeh, M.H., Baradaran, Aslan, Kachooei, A.R., 2020. Prevalence of comorbidities in COVID-19 patients: A systematic review and meta-analysis. *Arch. Bone Jt. Surg.* 8: 247–255.
- Barry, M., Muayqil, T., 2022. RT-PCR Ct values combined with age predicts invasive mechanical ventilation and mortality in hospitalized COVID-19 patients in a MERS-CoV-endemic country. *Heliyon* 8: e10525.
- Batiha, G.E.S., Gari, A., Elshony, N., Shaheen, H.M., Abubakar, M.B., Adeyemi, S.B., Al-kuraishy, H.M., 2021a. Hypertension and its management in COVID-19 patients: The assorted view. *Int. J. Cardiol. Cardiovasc. Risk Prev.* 11: 200121.
- Batiha, G.E.S., Gari, A., Elshony, N., Shaheen, H.M., Abubakar, M.B., Adeyemi, S.B., Al-kuraishy, H.M., 2021b. Hypertension and its management in COVID-19 patients: The assorted view. *Int. J. Cardiol. Cardiovasc. Risk Prev.* 11: 200121.

- Boopathi, S., Poma, A.B., Kolandaivel, P., 2020. Novel 2019 coronavirus structure, mechanism of action, antiviral drug promises and rule out against its treatment. *J. Biomol. Struct. Dyn.* 0: 1–10.
- Cao, J., Tu, W., Cheng, W., Yu, L., 2019. Clinical Features and Short-term Outcomes of 102 Patients with Corona Virus Disease 2019 in Wuhan , China 2 . Institute of Radiation Medicine , China Academy of Medical Science & Peking Union Medical College , Tianjin , China 3 . Department of Infectious. *Oxford Univ. Press* 4–21.
- Carabelli, A.M., Peacock, T.P., Thorne, L.G., Harvey, W.T., Hughes, J., de Silva, T.I., Peacock, S.J., Barclay, W.S., de Silva, T.I., Towers, G.J., Robertson, D.L., 2023. SARS-CoV-2 variant biology: immune escape, transmission and fitness. *Nat. Rev. Microbiol.* 21: 162–177. doi:10.1038/s41579-022-00841-7
- Celewicz, A., Celewicz, M., Michalczyk, M., Woźniakowska-gondek, P., Krejczyk, K., Misiek, M., Rzepka, R., 2021. Pregnancy as a risk factor of severe covid-19. *J. Clin. Med.* 10: 1–9.
- Chatterjee, S., Nalla, L.V., Sharma, M., Sharma, N., Singh, A.A., Malim, F.M., Ghatage, M., Mukarram, M., Pawar, A., Parihar, N., Arya, N., Khairnar, A., 2023. Association of COVID-19 with Comorbidities: An Update. *ACS Pharmacol. Transl. Sci.* 6: 334–354.
- Chen ZQ, Huang LS, Z.B., 2021. Assessment of Seven Clinical Tumor Markers in Diagnosis of Non-Small-Cell Lung Cancer. *Disease Markers. Diagnostics* 11.
- Choudhuri, J., Carter, J., Nelson, R., Skalina, K., Osterbur-Badhey, M., Johnston, A., Goldstein, D., Paroder, M., Szymanski, J., 2020. SARS-CoV-2 PCR cycle threshold at hospital admission associated with patient mortality. *PLoS One* 15: 1–14.
- Corman, V., Landt, O., Kaiser, M., Molenkamp, R., Meijer, A., Chu, D.K., Bleicker, T., Brünink, S., Schneider, J., Luisa Schmidt, M., GJC Mulders, D., Haagmans, B.L., van der Veer, B., van den Brink, S., Wijsman, L., Goderski, G., Romette, J.-L., Ellis, J., Zambon, M., Peiris, M., Goossens, H., Reusken, C., Koopmans, M.P., Drosten, C., Victor, C.M., Olfert, L., Marco, K., Richard, M., Adam, M., Daniel, C.K., Tobias, B., Sebastian, B., Julia, S., Marie Luisa, S., Daphne GJC, M., Bart, H.L., der Veer Bas, V., den Brink Sharon, V., Lisa, W., Gabriel, G., Jean-Louis, R., Joanna, E., Maria, Z., Malik, P., Herman, G., Chantal, R., 2020. Detection of 2019 -nCoV by RT-PCR. *Euro Surveill* 25: 1–8.
- Dadras, O., Afsahi, A.M., Pashaei, Z., Mojdeganlou, H., Karimi, A., Habibi, P., Barzegary, A., Fakhfour, A., Mirzapour, P., Janfaza, N., Dehghani, S., Afroughi, F., Dashti, M., Khodaei, S., Mehraeen, E., Voltarelli, F., Sabatier, J.M., SeyedAlinaghi, S.A., 2022. The relationship between COVID-19 viral

load and disease severity: A systematic review. *Immunity, Inflamm. Dis.* d

- Dehesh, P., Baradaran, H.R., Eshrati, B., Motevalian, S.A., Salehi, M., Donyavi, T., 2022. The Relationship Between Population-Level SARS-CoV-2 Cycle Threshold Values and Trend of COVID-19 Infection: Longitudinal Study. *JMIR Public Heal. Surveill.* 8: 1–12.
- Delikhoon, M., Guzman, M.I., Nabizadeh, R., Baghani, A.N., 2021. Modes of transmission of severe acute respiratory syndrome-coronavirus-2 (Sars-cov-2) and factors influencing on the airborne transmission: A review. *Int. J. Environ. Res. Public Health* 18: 1–18.
- Drobysh, M., Ramanaviciene, A., Viter, R., Chen, C.F., Samukaite-Bubniene, U., Ratautaite, V., Ramanavicius, A., 2022. Biosensors for the Determination of SARS-CoV-2 Virus and Diagnosis of COVID-19 Infection. *Int. J. Mol. Sci.* 23.
- Dutta, D., Naiyer, S., Mansuri, S., Soni, N., Singh, V., Bhat, K.H., Singh, N., Arora, G., Mansuri, M.S., 2022. COVID-19 Diagnosis: A Comprehensive Review of the RT-qPCR Method for Detection of SARS-CoV-2. *Diagnostics* 12: 1–18.
- Ebrahimi, S., Khanbabaie, H., Abbasi, S., Fani, M., Soltani, S., Zandi, M., Najafimemar, Z., 2022. CRISPR-Cas System: A Promising Diagnostic Tool for Covid-19. *Avicenna J. Med. Biotechnol.* 14: 3–9.
- Fadaka, A.O., Sibuyi, N.R.S., Adewale, O.B., Bakare, O.O., Akanbi, M.O., Klein, A., Madiehe, A.M., Meyer, M., 2020. Understanding the epidemiology, pathophysiology, diagnosis and management of SARS-CoV-2. *J. Int. Med. Res.* 48.
- Fang Z, Zhang Y, Hang C, Ai J, Li S, Z.W., 2020. Comparisons of viral shedding time of SARS-CoV-2 of different samples in ICU and non-ICU patients. *J Infect* 147–178.
- Farghaly, S., Makboul, M., 2021. Correlation between age, sex, and severity of Coronavirus disease-19 based on chest computed tomography severity scoring system. *Egypt. J. Radiol. Nucl. Med.* 52: 1–8.
- Fei, S., Feng, X., Luo, J., Guo, L., Pan, Q., 2022. Obesity and coronavirus disease 2019. *J. Transl. Intern. Med.* 10: 207–218.
- Fraser, R., Orta-Resendiz, A., Mazein, A., Dockrell, D., Müller-Trutwin, M., 2023. Severe COVID-19 versus multisystem inflammatory syndrome: comparing two critical outcomes of SARS-CoV-2 infection. *Eur. Respir. Rev.* 32.

- Gagliardi, M.C., Tieri, P., Ortona, E., Ruggieri, A., 2020. ACE2 expression and sex disparity in COVID-19. *Cell Death Discov.* 6: 1–2.
- Gęca, T., Wojtowicz, K., Guzik, P., Góra, T., 2022. Increased Risk of COVID-19 in Patients with Diabetes Mellitus—Current Challenges in Pathophysiology, Treatment and Prevention. *Int. J. Environ. Res. Public Health* 19.
- Guo, L., Ren, L., Yang, S., Xiao, M., Chang, D., Yang, F., Dela Cruz, C.S., Wang, Y., Wu, C., Xiao, Y., Zhang, L., Han, L., Dang, S., Xu, Y., Yang, Q.W., Xu, S.Y., Zhu, H.D., Xu, Y.C., Jin, Q., Sharma, L., Wang, L., Wang, J., 2020. Profiling early humoral response to diagnose novel coronavirus disease (COVID-19). *Clin. Infect. Dis.* 71: 778–785.
- Harrison, A.G., Lin, T., Wang, P., 2020. Mechanisms of SARS-CoV-2 Transmission and Pathogenesis. *Trends Immunol.* 41: 1100–1115.
- He, X., He, C., Hong, W., Zhang, K., Wei, X., 2021. The challenges of COVID-19 Delta variant: Prevention and vaccine development. *MedComm* 2: 846–854.
- Honardoost, M., Janani, L., Aghili, R., Emami, Z., Khamseh, M.E., 2021. The Association between Presence of Comorbidities and COVID-19 Severity: A Systematic Review and Meta-Analysis. *Cerebrovasc. Dis.* 50: 132–140.
- Ibrahim, F., Natasha, A., Saharman, Y.R., Yasmon, A., Fithriyah, Karuniawati, A., Ganiesa, S., Sudarmono, P., 2021. Consideration of the Cycle Threshold Values from Real-Time RT-PCR SARS-CoV-2 Interpretation for the Clinicians: Analysis of 339 Positive Cases from a Referral Laboratory in Jakarta, Indonesia. *Acta Med. Indones.* 53: 13–17.
- Italia, L., Tomasoni, D., Bisegna, S., Pancaldi, E., Stretti, L., Adamo, M., Metra, M., 2021. COVID-19 and Heart Failure: From Epidemiology During the Pandemic to Myocardial Injury, Myocarditis, and Heart Failure Sequelae. *Front. Cardiovasc. Med.* 8: 1–14.
- Jha, N., Jeyaraman, M., Rachamalla, M., Ojha, S., Dua, K., Chellappan, D., Muthu, S., Sharma, A., Jha, S., Jain, R., Jeyaraman, N., GS, P., Satyam, R., Khan, F., Pandey, P., Verma, N., Singh, S., Roychoudhury, S., Dholpuria, S., Ruokolainen, J., Kesari, K., 2021. Current Understanding of Novel Coronavirus: Molecular Pathogenesis, Diagnosis, and Treatment Approaches. *Immuno* 1: 30–66.
- Kemenkes RI, 2021a. Keputusan Menteri Kesehatan Republik Indonesia Nomor HK.01.07/MENKES/5671/2021 tentang Manajemen Klinis Tata Laksana Corona Virus Disease 2019 (COVID-19) di Fasilitas Pelayanan Kesehatan. *Kementeri. Kesehat. Republik Indones.* 2019: 1–106.

- Kemenkes RI, 2021b. Situasi Terkini Perkembangan Coronavirus. *Kementeri. Kesehat. RI* 1–4.
- Kementrian Kesehatan RI, 2021. Petunjuk Teknis Klaim Penggantian Biaya Pelayanan Pasien Corona Virus Disease 2019 (Covid- 19) Bagi Rumah Sakit Penyelenggara Pelayanan Corona Virus Disease 2019 (Covid- 19) Keputusan Menteri Kesehatan Republik Indonesia Nomor HK.01.07 / MENKES / 4344 / 2. *Kementeri. Kesehat. RI* 44: 1–21.
- Knudtzen, F.C., Jensen, T.G., Lindvig, S.O., Rasmussen, L.D., Madsen, L.W., Hoegh, S.V., Bek-Thomsen, M., Laursen, C.B., Nielsen, S.L., Johansen, I.S., 2021. SARS-CoV-2 viral load as a predictor for disease severity in outpatients and hospitalised patients with COVID-19: A prospective cohort study. *PLoS One* 16: 1–14.
- Kumar, A., Narayan, R.K., Prasoon, P., Kumari, C., Kaur, G., Kumar, Santosh, Kulandhasamy, M., Sesham, K., Pareek, V., Faiq, M.A., Pandey, S.N., Singh, H.N., Kant, K., Shekhawat, P.S., Raza, K., Kumar, Sujeet, 2021. COVID-19 Mechanisms in the Human Body—What We Know So Far. *Front. Immunol.* 12.
- Kumar, R., Srivastava, Y., Muthuramalingam, P., Singh, S.K., Verma, G., Tiwari, S., Tandel, N., Beura, S.K., Panigrahi, A.R., Maji, S., Sharma, P., Rai, P.K., Prajapati, D.K., Shin, H., Tyagi, R.K., 2023. Understanding Mutations in Human SARS-CoV-2 Spike Glycoprotein: A Systematic Review & Meta-Analysis. *Viruses* 15.
- Kumar, R., Yeni, C.M., Utami, N.A., Masand, R., Asrani, R.K., Patel, S.K., Kumar, A., Yattoo, M.I., Tiwari, R., Natesan, S., Vora, K.S., Nainu, F., Bilal, M., Dhawan, M., Emran, T. Bin, Ahmad, T., Harapan, H., Dhama, K., 2021. SARS-CoV-2 infection during pregnancy and pregnancy-related conditions: Concerns, challenges, management and mitigation strategies—a narrative review. *J. Infect. Public Health* 14: 863–875.
- Li, C., He, Q., Qian, H., Liu, J., 2021. Overview of the pathogenesis of COVID-19 (Review). *Exp. Ther. Med.*
- Li, Z., Yi, Y., Luo, X., Xiong, N., Liu, Y., Li, S., Al, E., 2020. Development and clinical application of a rapid IgM-IgG combined antibody test for SARS-CoV-2 infection diagnosis. *J. Med. Virol.* 92: 1518–1524.
- Liu, W., Liu, L., Kou, G., Zheng, Y., Ding, Y., Ni, W., Wang, Q., Tan, L., Wu, W., Tang, S., Xiong, Z., Zheng, S., 2020. Evaluation of nucleocapsid and spike protein-based enzyme-linked immunosorbent assays for detecting antibodies against SARS-CoV-2. *J. Clin. Microbiol.* 58: 0–6.

- Liu, Y., Yan, L.-M., Wan, L., et al, 2020a. Viral Load Disease Severity Covid. *Lancet Infect Dis* 20: 656–657.
- Liu, Y., Yan, L.M., Wan, L., Xiang, T.X., Le, A., Liu, J.M., Peiris, M., Poon, L.L.M., Zhang, W., 2020b. Viral dynamics in mild and severe cases of COVID-19. *Lancet Infect. Dis.* 20: 656–657.
- Magleby, R., Westblade, L.F., Trzebucki, A., Simon, M.S., Rajan, M., Park, J., Goyal, P., Safford, M.M., Satlin, M.J., 2021. Impact of Severe Acute Respiratory Syndrome Coronavirus 2 Viral Load on Risk of Intubation and Mortality among Hospitalized Patients with Coronavirus Disease 2019. *Clin. Infect. Dis.* 73: E4197–E4205.
- Martins, M.P., de Oliveira, R.B., 2023. COVID-19 and Chronic Kidney Disease: A Narrative Review. *Covid* 3: 1092–1105.
- Mishra B, Ranjan J, Purushotham P, Saha S, Payal P, Kar P, et al, 2021. High proportion of low cycle threshold value as an early indicator of COVID-19 surge.
- Mishra, B., Ranjan, J., Purushotham, P., Kar, P., Payal, P., Saha, S., Deshmukh, V., Das, S., 2022. Comparison of Cycle Threshold and Clinical Status Among Different Age Groups of COVID-19 Cases. *Cureus* 14: 2–7.
- Mohamadian, M., Chiti, H., Shoghli, A., Biglari, S., Parsamanesh, N., Esmaeilzade, B., 2020. The Journal of Gene Medicine - 2020 - Mohamadian - COVID-19 Virology biology and novel laboratory diagnosis.pdf.
- Mollarasouli, F., Zare-Shehneh, N., Ghaedi, M., 2022. A review on corona virus disease 2019 (COVID-19): current progress, clinical features and bioanalytical diagnostic methods. *Microchim. Acta* 189.
- Mubarik, S., Liu, X., Eshak, E.S., Liu, K., Liu, Q., Wang, F., Shi, F., Wen, H., Bai, J., Yu, C., Cao, J., 2021. The Association of Hypertension With the Severity of and Mortality From the COVID-19 in the Early Stage of the Epidemic in Wuhan, China: A Multicenter Retrospective Cohort Study. *Front. Med.* 8.
- Muhamad, S.A., Ugusman, A., Kumar, J., Skiba, D., Hamid, A.A., Aminuddin, A., 2021. COVID-19 and Hypertension: The What, the Why, and the How. *Front. Physiol.* 12: 1–11.
- Ni, W., Yang, X., Yang, Deqing, Bao, J., Li, R., Xiao, Y., Hou, C., Wang, H., Liu, J., Yang, Donghong, Xu, Y., Cao, Z., Gao, Z., 2020. Role of angiotensin-converting enzyme 2 (ACE2) in COVID-19. *Crit. Care* 24: 1–10.



- Pan, F., Ye, T., Sun, P., Gui, S., Liang, B., Li, L., Zheng, D., Wang, J., Hesketh, R.L., Yang, L., Zheng, C., 2020. Time course of lung changes at chest CT during recovery from Coronavirus disease 2019 (COVID-19). *Radiology* 295: 715–721.
- Pascarella, G., Strumia, A., Piliego, C., Bruno, F., Del Buono, R., Costa, F., Scarlata, S., Agrò, F.E., 2020. COVID-19 diagnosis and management: a comprehensive review. *J. Intern. Med.* 288: 192–206.
- Pontone, G., Scafuri, S., Elisabetta, M., Agalbato, C., Guglielmo, M., Baggiano, A., Muscogiuri, G., Fusini, L., Andreini, D., Mushtaq, S., Conte, E., Annoni, A., Formenti, A., Pepi, M., Rossi, A., 2021. Role of computed tomography in COVID-19 Gianluca. *J. Cardiovasc. Comput. Tomogr.* 15: 27–36.
- Qasem, A., Shaw, A.M., Elkamel, E., Naser, S.A., 2021. Coronavirus disease 2019 (Covid-19) diagnostic tools: A focus on detection technologies and limitations. *Curr. Issues Mol. Biol.* 43: 728–748.
- Radwan, N.M., Mahmoud, N.E., Alfaifi, A.H., Alabdulkareem, K.I., 2020. Comorbidities and severity of coronavirus disease 2019 patients. *Saudi Med. J.* 41: 1165–1174.
- Rahman, S., Montero, M.T.V., Rowe, K., Kirton, R., Kunik, F., 2021. Epidemiology, pathogenesis, clinical presentations, diagnosis and treatment of COVID-19: a review of current evidence. *Expert Rev. Clin. Pharmacol.* 14: 601–621.
- Rao, S.N., Manissero, D., Steele, V.R., Pareja, J., 2020. A Narrative Systematic Review of the Clinical Utility of Cycle Threshold Values in the Context of COVID-19. *Infect. Dis. Ther.* 9: 573–586.
- Rashedi R, S., Akhlaghdoust, M., Mashhadi, M., Darzi, P., Rezaei, N., 2022. Delta Variant: The New Challenge of COVID-19 Pandemic, an Overview of Epidemiological, Clinical, and Immune Characteristics. *Acta Biomed.* 93: e2022179.
- Rong G, Zheng Y, Chen Y, Zhang Y, Zhu P, S.M., 2023. COVID-19 Diagnostic Methods and Detection Techniques 3: 17–32.
- Saglik, I., Ener, B., Akalin, H., Ozdemir, B., Ocakoglu, G., Yalcin, B., Onal, U., Guclu, O.A., Ozturk, N.A.A., Tuzemen, U., Demirdogen, E., Dilektasli, A.G., Agca, H., Kazak, E., Coskun, F., Heper, Y., Payaslioglu, M., Ediger, D., Ursavas, A., Yilmaz, E., Ozakin, C., Uzaslan, E., Karadag, M., 2022. Association of SARS-CoV-2 cycle threshold (Ct) values with clinical course and serum biomarkers in COVID-19 patients. *J. Infect. Dev. Ctries.* 16: 445–452.

- Sapir, T., Averch, Z., Lerman, B., Bodzin, A., Fishman, Y., Maitra, R., 2022. COVID-19 and the Immune Response: A Multi-Phasic Approach to the Treatment of COVID-19. *Int. J. Mol. Sci.* 23.
- Sarkar B, Sinha RN, S.K., 2020. Initial Viral Load of a COVID-19-Infected Case Indicated by its Cycle Threshold Value of Polymerase Chain Reaction Could be used as a Predictor of its Transmissibility - An Experience from Gujarat, India Bidisa. *ndia. Indian J Community Med.* 2020 Jul-Sep;45(3)278-282. 42: 147–50.
- Satgas COVID-19, 2022. Update Percepatan Penanganan COVID-19 di Indonesia.
- Shadiq IZ, 2021. Reverse Transcription Polymerase Chain Reaction (RT-PCR) as a Tool for Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2) Surveillance in the Military. *J. Arch. Mil. Med.* 9: 1–8.
- Sharma, Anshika, Ahmad Farouk, I., Lal, S.K., 2021. Covid-19: A review on the novel coronavirus disease evolution, transmission, detection, control and prevention. *Viruses* 13: 1–25.
- Sharma, A, Balda, S., Apreja, M., Kataria, K., Capalash, N., Sharma, P., 2021. COVID-19 Diagnosis: Current and Future Techniques. *Int. J. Biol. Macromol.* 193: 1835–1844.
- Shyu, D., Dorroh, J., Holtmeyer, C., Ritter, D., Upendran, A., Kannan, R., Dandachi, D., Rojas-Moreno, C., Whitt, S.P., Regunath, H., 2020. Laboratory Tests for COVID-19: A Review of Peer-Reviewed Publications and Implications for Clinical Use. *Mo. Med.* 117: 184–195.
- Silva, M.J.A., Ribeiro, L.R., Lima, K.V.B., Lima, L.N.G.C., 2022. Adaptive immunity to SARS-CoV-2 infection: A systematic review. *Front. Immunol.* 13: 1–25.
- Singh, L., Bajaj, S., Gadewar, M., Verma, N., Ansari, M.N., Saeedan, A.S., Kaithwas, G., Singh, M., 2021. Modulation of Host Immune Response Is an Alternative Strategy to Combat SARS-CoV-2 Pathogenesis. *Front. Immunol.* 12: 1–17.
- Steenblock, C., Hassanein, M., Khan, E.G., Yaman, M., Kamel, M., Barbir, M., Lorke, D.E., Everett, D., Bejtullah, S., Lohmann, T., Lindner, U., Tahirukaj, E., Jirjees, F.J., Soliman, S.S.M., Quitter, F., Bornstein, S.R., 2022. Obesity and COVID-19: What are the Consequences? *Horm. Metab. Res.* 54: 496–502.



- Susilo, A., Jasirwan, C.O.M., Wafa, S., Maria, S., Rajabto, W., Muradi, A., Fachriza, I., Putri, M.Z., Gabriella, S., 2022. Mutasi dan Varian Coronavirus Disease 2019 (COVID-19): Tinjauan Literatur Terkini. *J. Penyakit Dalam Indones.* 9: 59.
- Tali, S.H., LeBlanc, J.J., Sadiq, Z., Oyewunmi, O.D., Camargo, C., Nikpour, B., Armanfard, N., Sagan, S.M., Jahanshahi-Anbuhi, S., 2021. Tools and techniques for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)/COVID-19 detection. *Clin. Microbiol. Rev.* 34.
- Tavares, C.A.M., Bailey, M.A., Girardi, A.C.C., 2020. Biological Context Linking Hypertension and Higher Risk for COVID-19 Severity. *Front. Physiol.* 11.
- Trunfio, M., Venuti, F., Alladio, F., Longo, B.M., Burdino, E., Cerutti, F., Ghisetti, V., Bertucci, R., Picco, C., Bonora, S., Perri, G. Di, Calcagno, A., 2021. COVID-19 Symptomatic Patients. *Viruses* 13: 1–14.
- Tsukagoshi, H., Shinoda, D., Saito, M., Okayama, K., Sada, M., Kimura, H., Saruki, N., 2021. Relationships between viral load and the clinical course of covid-19. *Viruses* 13: 2–7.
- Verma, N., Patel, D., Pandya, A., 2020. Emerging diagnostic tools for detection of COVID-19 and perspective. *Biomed. Microdevices* 22.
- WHO, 2021. Antigen-detection in the diagnosis of SARS-CoV-2 infection. *Interim Guid.* 20.
- Wu, C., Chen, X., Cai, Y., Xia, J., Zhou, Xing, Xu, S., Huang, H., Zhang, L., Zhou, Xia, Du, C., Zhang, Y., Song, J., Wang, S., Chao, Y., Yang, Z., Xu, J., Zhou, Xin, Chen, D., Xiong, W., Xu, L., Zhou, F., Jiang, J., Bai, C., Zheng, J., Song, Y., 2020. Risk Factors Associated with Acute Respiratory Distress Syndrome and Death in Patients with Coronavirus Disease 2019 Pneumonia in Wuhan, China. *JAMA Intern. Med.* 180: 934–943.
- Xie, X., Zhong, Z., Zhao, W., Zheng, C., Wang, F., Liu, J., 2020. Chest CT for Typical Coronavirus Disease 2019 (COVID-19) Pneumonia: Relationship to Negative RT-PCR Testing. *Radiology* 296: E41–E45.
- Yan, T., Xiao, R., Wang, N., Shang, R., Lin, G., 2021. Obesity and severe coronavirus disease 2019: Molecular mechanisms, paths forward, and therapeutic opportunities. *Theranostics* 11: 8234–8253.
- Yoo, H.M., Kim, I.H., Kim, S., 2021. Nucleic acid testing of sars-cov-2. *Int. J. Mol. Sci.* 22: 1–25.

- Young, B.E., Ong, S.W.X., Ng, L.F.P., Anderson, D.E., Chia, W.N., Chia, P.Y., Ang, L.W., Mak, T.M., Kalimuddin, S., Chai, L.Y.A., Pada, S., Tan, S.Y., Sun, L., Parthasarathy, P., Fong, S.W., Chan, Y.H., Tan, C.W., Lee, B., Röttschke, O., Ding, Y., Tambyah, P., Low, J.G.H., Cui, L., Barkham, T., Lin, R.T.P., Leo, Y.S., Renia, L., Wang, L.F., Lye, D.C., 2021. Viral dynamics and immune correlates of coronavirus disease 2019 (COVID-19) severity. *Clin. Infect. Dis.* 73: E2932–E2942.
- Yuki K, Fujiogi M, K.S., 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. *COVID-19 Pathophysiol. A Rev. Clin Immunol* 215:108427.
- Zayed, N.E., Abbas, A., Lutfy, S.M., 2022. Criteria and potential predictors of severity in patients with COVID-19. *Egypt. J. Bronchol.* 16.
- Zhang, J. jin, Dong, X., Liu, G. hui, Gao, Y. dong, 2023. Risk and Protective Factors for COVID-19 Morbidity, Severity, and Mortality. *Clin. Rev. Allergy Immunol.* 64: 90–107.
- Zhang, W., Du, R.H., Li, B., Zheng, X.S., Yang, X. Lou, Hu, B., Wang, Y.Y., Xiao, G.F., Yan, B., Shi, Z.L., Zhou, P., 2020. Molecular and serological investigation of 2019-nCoV infected patients: implication of multiple shedding routes. *Emerg. Microbes Infect.* 9: 386–389.
- Zheng KI, Gao F, Wang XB, Sun QF, Pan KH, Wang TY, et al., 2020. Letter to the Editor: Obesity as a risk factor for greater severity of COVID-19 in patients with metabolic associated fatty liver disease 108: 154244.
- Zheng S, Fan J, Yu F, Feng B, Lou B, Zou Q, Xie G, Lin S, Wang R, Yang X, Chen W, Wang Q, Zhang D, Liu Y, Gong R, Ma Z, Lu S, Xiao Y, Gu Y, Zhang J, Yao H, Xu K, Lu X, Wei G, Zhou J, Fang Q, Cai H, Qiu Y, Sheng J, Chen Y, L.T., 2020. Viral load dynamics and disease severity in patients infected with SARS-CoV-2 in Zhejiang province, China, January-March 2020: retrospective cohort study. *Apr* 21;369.
- Zhou, Y., Zhang, L., Xie, Y.H., Wu, J., 2022. Advancements in detection of SARS-CoV-2 infection for confronting COVID-19 pandemics. *Lab. Investig.* 102: 4–13.
- Zsichla, L., Müller, V., 2023. Risk Factors of Severe COVID-19: A Review of Host, Viral and Environmental Factors. *Viruses* 15: 1–79.