DAFTAR PUSTAKA

Ai, T., Yang, Z., Hou, H., Zhan, C., Chen, C., Lv, W., *et al*. (2020). Correlation of Chest CT and RT-PCR Testing in Coronavirus Disease 2019 (COVID-19) in China:A Report of 1014 Cases. *Radiology*. DOI: 10.1148/radiol.2020200642

Alicic, RZ., Rooney, MT., Tuttle, KR. (2017). Diabetic Kidney Disease: Challenges, Progress, and Possibilities. *Clin J Am Soc Nephrol*. Dec 7;12(12):2032-2045.

Alloubani, A., Saleh, A. and Abdelhafiz, I. (2018) 'Hypertension and diabetes mellitus as a predictive risk factors for stroke', *Diabetes and Metabolic Syndrome: Clinical Research and Reviews*. doi: 10.1016/j.dsx.2018.03.009.

Al-Argan, R., Alkhaji, D., Al-Elq, A., Albaker, W., Alqatari, S., Alzaki, A., *et al*. 2021. The Impact of Diabetes Mellitus and Hyperglycemia on the Severity and Outcome of Patients with COVID-19 Disease: A Single-Center Experience. *International Journal of General Medicine* 2021:14 9445–9457

Alkundi, A., Mahmoud, I., Musa, A., & Naveed, 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 . January*.

Al-Salameh, A., Lanoix, J. P., Bennis, Y., Andrejak, C., Brochot, E., Deschasse, G., *et al*. (2020). Characteristics and outcomes of COVID-19 in hospitalized patients with and without diabetes. *Diabetes/Metabolism Research and Reviews*, *2019*(July), 1–9. https://doi.org/10.1002/dmrr.3388

Atmosudigdo, I. S., Lim, M. A., Radi, B., Henrina, J., Yonas, E., Vania, R., & Pranata, R. (2021). Dyslipidemia increases the risk of severe COVID-19: A systematic review, meta-analysis, and meta-regression. *Clinical Medicine Insights: Endocrinology and Diabetes*, *14*, 1179551421990675.

Bellia, A., Andreadi, A., Giudice, L., De Taddeo, S., Maiorino, A., D'Ippolito, I., Giorgino, F. M., Ruotolo, V., Romano, M., & Magrini, A. (2021). Atherogenic dyslipidemia on admission is associated with poorer outcome in people with and without diabetes hospitalized for COVID-19. *Diabetes Care*, *44*(9), 2149–2157.

Berbudi, A., Rahmadika, N., Tjahjadi, A. I., & Ruslami, R. (2019). Type 2 Diabetes and its Impact on the Immune System. *Current Diabetes Reviews*, *16*(5), 442–449. https://doi.org/10.2174/1573399815666191024085838

Bode, B., Garrett, V., Messler, J., McFarland, R., Crowe, J., Booth, R. *et al*. (2020). Glycemic Characteristics and Clinical Outcomes of COVID-19 Patients Hospitalized in the United States. *Journal of Diabetes Science and Technology*, *14*(4), 813–821. https://doi.org/10.1177/1932296820924469

Burhan, E., Susanto, A. D., Nasution, S. A., Ginanjar, E., Pitoyo, W., Susilo, A.*et al*. (2015). Increased resistin may suppress reactive oxygen species production and inflammasome activation in type 2 diabetic patients with pulmonary tuberculosis infection. *Microbes and Infection*, *17*(3), 195–204. https://doi.org/10.1016/j.micinf.2014.11.009

Cao, W., Chen, J., Chen, Y., Chen, X., and Liu, P. (2014). Advanced glycation end products promote heart failure through inducing the immune maturation of dendritic cells. *Applied Biochemistry and Biotechnology*, *172*(8), 4062–4077. https://doi.org/10.1007/s12010-014-0804-7

Corrao, S., Pinelli, K., Vacca, M., Raspanti, M., & Argano, C. (2021). Type 2 Diabetes Mellitus and COVID-19: A Narrative Review. *Frontiers in Endocrinology*, *12*(March), 1–10. https://doi.org/10.3389/fendo.2021.609470

Engin, A. B., Engin, E. D., & Engin, A. (2020). Two important controversial risk factors in SARS-CoV-2 infection: Obesity and smoking. *Environmental Toxicology and Pharmacology*, *78*, 103411.

Erlina Burhan, Agus Dwi Susanto, F. H. A. S. (2020). *Pedoman tatalaksana COVID-19 Edisi 3 Desember 2020*, *Pedoman Tatalaksana COVID-19*.

Fois, A.G., Paliogiannis, P., Scano, V., Cau, S., Babudieri, S., Perra, R., *et al*. (2020). The systemic inflammation index on admission predicts in-hospital mortality in COVID-19 patients. *Molecules*, 25(23), 1–13. https://doi.org/10.3390/molecules25235725

Goyal, Rajeev, Ishwarlal Jialal. (2020). *Diabetes Melitus Type 2*. StatPearls Publishing. PubMed.

Guo, W., Li, M., Dong, Y., Zhou, H., Zhang, Z., Tian, C., *et al*. (2020). Diabetes is a risk factor for the progression and prognosis of COVID-19. *Diabetes/Metabolism Research and Reviews*, *36*(7). https://doi.org/10.1002/dmrr.3319

Gupta, A., Nayan, N., Nair, R., Kumar, K., Joshi, A., Sharma, S., Singh, J., & Kapoor, R. (2021). Diabetes Mellitus and Hypertension Increase Risk of Death in Novel Corona Virus Patients Irrespective of Age: A Prospective Observational Study of Co-morbidities and COVID-19 from India. SN Comprehensive Clinical Medicine, 3(4), 937–944. https://doi.org/10.1007/s42399-021-00851-1

Huang, C., Wang, Y., Li, X., Ren, L., Zhao, J., Hu, Y., *et al*. (2020). Clinical features of patients infected with 2019 novel coronavirus in Wuhan, China. *TheLancet*,*395*(10223),497–506.https://doi.org/10.1016/S0140-6736(20)30183-5

Ingelsson, E., & McCarthy, M. I. (2018). Human genetics of obesity and type 2 diabetes mellitus: Past, present, and future. *Circulation: Genomic and Precision Medicine*, *11*(6), e002090.

Jafar, N., Edriss, H., & Nugent, K. (2016). The effect of short-term hyperglycemia on the innate immune system. In *American Journal of the Medical Sciences* (Vol. 351, Issue 2, pp. 201–211). Elsevier B.V. https://doi.org/10.1016/j.amjms.2015.11.011

Kang, I. S., & Kong, K. A. (2021). Body mass index and severity/fatality from coronavirus disease 2019: A nationwide epidemiological study in Korea. PLOS ONE, 16(6), e0253640. https://doi.org/10.1371/journal.pone.0253640

Kashyap, V. K., Dhasmana, A., Massey, A., Kotnala, S., Zafar, N., Jaggi, M., Yallapu, M. M., & Chauhan, S. C. (2020). Smoking and COVID-19: Adding fuel to the flame. *International Journal of Molecular Sciences*, *21*(18), 6581.

Kementerian Kesehatan RI (2018) *Riskesdas 2018 Laporan Nasional Riskesndas*

2018.

Kharroubi, A. T. (2015) 'Diabetes mellitus: The epidemic of the century', *World Journal of Diabetes*, 6(6), p. 850. doi: 10.4239/wjd.v6.i6.850.

Kolahian, S., Leiss, V., & Nürnberg, B. (2019). Diabetic lung disease: fact or fiction? *Reviews in Endocrine and Metabolic Disorders*, *20*(3), 303–319. https://doi.org/10.1007/s11154-019-09516-w

Kautzky-Willer, A. (2021). Does diabetes mellitus mitigate the gender gap in COVID-19 mortality? European Journal of Endocrinology, 185(5), C13–C17.

Leon-Abarca, J. A., Memon, R. S., Rehan, B., Iftikhar, M., & Chatterjee, A. (2020). The impact of COVID-19 in diabetic kidney disease and chronic kidney disease: A population-based study. *Acta Bio Medica: Atenei Parmensis*, *91*(4).

Li, H., Tian, S., Chen, T., Cui, Z., Shi, N., Zhong, X., *et al*. (2020). Newly diagnosed diabetes is associated with a higher risk of mortality than known diabetes in hospitalized patients with COVID-19. *Diabetes Obes Metab*. Huazhong University of Science and Technology.

Li, X. (2019) 'Diabetes Mellitus and Risk of Hepatic Fibrosis/Cirrhosis', *BioMed Research International*. doi: 10.1155/2019/5308308.

Liu, Y., Lu, R., Wang, J., Cheng, Q., Zhang, R., Zhang, S., *et al*. (2021). Diabetes, even newly defined by HbA1c testing, is associated with an increased risk of in-hospital death in adults with COVID-19. *BMC Endocrine Disorder*. https://doi.org/10.1186/s12902-021-00717-6

Long, C., Xu, H., Shen, Q., Zhang, X., Fan, B., Wang, C. (2020). Diagnosis of the Coronavirus disease (COVID-19): rRT-PCR or CT?. *European Journal of Radiology. journal homepage: www.elsevier.com/locate/ejrad*

Martinez, N., Ketheesan, N., Martens, G. W., West, K., Lien, E., & Kornfeld, H. (2016). Defects in early cell recruitment contribute to the increased susceptibility to respiratory Klebsiella pneumoniae infection in diabetic mice. *MicrobesandInfection*,*18*(10),649–655.https://doi.org/10.1016/j.micinf.2016.05.007

Marvisi, M., Bartolini, L., del Borrello, P., Brianti, M., Marani, G., Guariglia, A., Cuomo, A. (2001). Pulmonary function in non-insulin-dependent diabetes mellitus. *Respiration*. 2001;68(3):268-72.

Merzon, E., Green, I., Shpigelman, M., Vinker, S., Raz, I., Cohen, A.G., *et al*. (2020). Hemoglobin A1C is a Predictor of COVID-19 Severity in Patients with Diabetes. *Research articel*, 2020, DOI: 10.1002/dmrr.3398

Muniyappa, R., & Gubbi, S. (2020). COVID-19 pandemic, coronaviruses, and diabetes mellitus. *American Journal of Physiology - Endocrinology and Metabolism*,*318*(5), E736–E741. https://doi.org/10.1152/ajpendo.00124.2020

Morse, J., Gay, W., Korwek, KM., Mclean, LE., Poland RE., Guy, J. *et al*. (2021). Hyperglycaemia increases mortality risk in non-diabetic patients with COVID-19 even more than in diabetic patients. *Endocrinology Diabetes and Metabolism*. DOI: 10.1002/edm2.291

Nanayakkara, N., Curtis, A. J., Heritier, S., Gadowski, A. M., Pavkov, M. E., Kenealy, T., Owens, D. R., Thomas, R. L., Song, S., Wong, J., Chan, J.

C.-N., Luk, A. O.-Y., Penno, G., Ji, L., Mohan, V., Amutha, A., Romero-Aroca, P., Gasevic, D., Magliano, D. J., … Zoungas, S. (2021). Impact of age at type 2 diabetes mellitus diagnosis on mortality and vascular complications: Systematic review and meta-analyses. *Diabetologia*, *64*(2), 275–287. https://doi.org/10.1007/s00125-020-05319-w

Patoulias, D., Papadopoulos, C., Stavropoulos, K., Zografou, I., Doumas, M., & Karagiannis, A. (2020). Prognostic value of arterial stiffness measurements in cardiovascular disease, diabetes, and its complications: The potential role of sodium-glucose co-transporter-2 inhibitors. *Journal of Clinical Hypertension*, *22*(4), 562–571. https://doi.org/10.1111/jch.13831

Pavlou, S., Lindsay, J., Ingram, R., Xu, H., & Chen, M. (2018). Sustained high glucose exposure sensitizes macrophage responses to cytokine stimuli but reduces their phagocytic activity. *BMC Immunology*, *19*(1), 24. https://doi.org/10.1186/s12865-018-0261-0

Peng, X., Wang, Y., Xi, X., Jia, Y., Tian, J., Yu, B., & Tian, J. (2021). Promising therapy for heart failure in patients with severe COVID-19: Calming the cytokine storm. *Cardiovascular Drugs and Therapy*, *35*(2), 231–247.

Perhimpunan Dokter Paru Indonesia, Perhimpunan Dokter Spesialis Kardiovaskuler Indonesia, Perhimpunan Dokter Spesialis Penyakit Dalam Indonesia, Perhimpunan Dokter Anestesiologi dan Terapi Intensif Indonesia, Ikatan Dokter Anak Indonesia. (2020). *Pedoman Tatalaksana COVID-10*. Edisi 3: Jakarta.

PERKENI. (2019). Pengelolaan dan Pengobatan Diabetes Melitus Tipe 2 Dewasa. *Pedoman Pengelolaan Dan Pencegahan Diabetes Melitus Tipe 2 Di Indonesia*, *1*, 132.

Richardson Jr, T. L., Hackstadt, A. J., Hung, A. M., Greevy, R. A., Grijalva, C. G., Griffin, M. R., Elasy, T. A., & Roumie, C. L. (2021). Hospitalization for heart failure among patients with diabetes mellitus and reduced kidney function treated with metformin versus sulfonylureas: A retrospective cohort study. *Journal of the American Heart Association*, *10*(8), e019211.

Rna, Z., Control, D., Guiana, F., Rna, Z., Zika, R., Kit, V. R. (2020). SARS-CoV-2 Viral Load in Upper Respiratory Specimens of Infected Patients. *New England Journal of Medicine*, 7–9.

Rodríguez-Gutiérrez, R., & Montori, V. M. (2016). Glycemic control for patients with type 2 diabetes mellitus: Our evolving faith in the face of evidence. *Circulation: Cardiovascular Quality and Outcomes*, *9*(5), 504–512. https://doi.org/10.1161/CIRCOUTCOMES.116.002901

Saviano, A., Wrensch, F., Ghany, M. G., & Baumert, T. F. (2021). Liver disease and coronavirus disease 2019: From pathogenesis to clinical care. *Hepatology*, *74*(2), 1088–1100.

Sheetz MJ, King GL. (2002). Molecular understanding of hyperglycemia's adverse effects for diabetic complications. *JAMA*. 288(20) : 2579 - 2588.

Sherwani, S. I., Khan, H. A., Ekhzaimy, A., Masood, A., & Sakharkar, M. K. (2016). Significance of HbA1c test in diagnosis and prognosis of diabetic patients. *Biomarker Insights*, *11*, 95–104. https://doi.org/10.4137/Bmi.s38440

Søgaard, D., Lund, M., Scheuer, C., Dehlbaek, M., Dideriksen, S., Abildskov, C., Christensen, K., Dohlmann, T., Larsen, S., & Vigelsø, A. (2018). High-intensity interval training improves insulin sensitivity in older individuals. *Acta Physiologica*, *222*(4), e13009.

Spindler, M. P., Ho, A. M., Tridgell, D., McCulloch-Olson, M., Gersuk, V., Ni, C., Greenbaum, C., & Sanda, S. (2016). Acute hyperglycemia impairs IL-6 expression in humans. *Immunity, Inflammation and Disease*, *4*(1), 91–97. https://doi.org/10.1002/iid3.97

Susilo, A., Rumende, C. M., Pitoyo, C. W., Santoso, W. D., Yulianti, M., Herikurniawan, H., Sinto, R., Singh, G., Nainggolan, L., Nelwan, E. J., Chen, L. K., Widhani, A., Wijaya, E., Wicaksana, B., Maksum, M., Annisa, F., Jasirwan, C. O. M., & Yunihastuti, E. (2020). Coronavirus Disease 2019: Tinjauan Literatur Terkini. *Jurnal Penyakit Dalam Indonesia*, *7*(1), 45. https://doi.org/10.7454/jpdi.v7i1.415

Tramunt, B., Smati, S., Grandgeorge, N., Lenfant, F., Arnal, J. F., Montagner, A., and Gourdy, P. (2020). Sex differences in metabolic regulation and diabetes susceptibility. In *Diabetologia* (Vol. 63, Issue 3, pp. 453–461). https://doi.org/10.1007/s00125-019-05040-3

Tsimihodimos, V., Villalpando. C.G., Meigs. J.B., Ferrannini. E. (2018). Hypertension and Diabetes Mellitus Coprediction and Time Trajectories. *Hypertension*, 71(3). doi: 10.1161/HYPERTENSIONAHA.117.10546.

Ustun. G.U., Keskin. A., Aci. R., Erdem. M. A., Ari. M. (2021). Association between HbA1c and Severity of COVID-19 Patients. *Hemoglobin*, 45(2), pp. 124–128. doi: 10.1080/03630269.2021.1926278.

Van Baal, L., Reinold, J., Benson, S., Diehl. A., Witzke. D.F., *et al.* (2022). Implications of an HbA1c-based Diabetes Screening on Prevalence and Effect of Dysglycemia in Patients With COVID-19. *The Journal of Clinical Endocrinology & Metabolism*, (October), pp. 1–9. doi: 10.1210/clinem/dgac590.

Viigimaa, M., Sachinidis, A., Toumpourleka, M., Koutsampasopoulos., Alliksoo, S., Titma, T. (2019). Macrovascular Complications of Type 2 Diabetes Mellitus. *Current Vascular Pharmacology*, 2019, 17, 000-000

Xu. Y., Yang. X., Bian. H. (2021). Metabolic dysfunction associated fatty liver disease and coronavirus disease 2019: clinical relationship and current management. *Lipids in health and disease*. doi: 10.1186/s12944-021-01564-z.

Yan, Y., Yang, Y., Wang, F., Ren, H., Zhang, S., Shi, X., Yu, X., & Dong, K. (2020). Clinical characteristics and outcomes of patients with severe covid-19 with diabetes. *BMJ Open Diabetes Research and Care*, *8*(1), 1–9. https://doi.org/10.1136/bmjdrc-2020-001343

Yang, P., Feng, J., Peng, Q., Liu, X., Fan, Z., & Luca, M. (2019). Advanced Glycation End Products: Potential Mechanism and Therapeutic Target in Cardiovascular Complications under Diabetes. *Oxidative Medicine and Cellular Longevity*, *2019*. https://doi.org/10.1155/2019/9570616

Zhu, L., She, ZG., Cheng, X., Qin, JJ., Zhang, XJ., Cai, J., *et al.* (2020). Association of Blood Glucose Control and Outcomesin Patients with COVID-19 and Pre-existing Type 2 Diabetes. *Cell Metabolism*, *31*(June),

1068–1077.

Zhu, Z., Mao, Y. and Chen, G. (2021) 'Predictive value of HbA1c for in-hospital adverse prognosis in COVID-19: A systematic review and meta-analysis', *Primary Care Diabetes*, 15(6), pp. 910–917. doi: 10.1016/j.pcd.2021.07.013.