

DAFTAR PUSTAKA

- Abbasifarad M and Khorramdelazad H, 2020, The bio-mission of interleukin-6 in the pathogenesis of COVID-19: A brief look at potential therapeutic tactics in Life Science 257, p: 1-12
- Abbot Laboratories, 2018. Architect cSystems Assay Parameters: Glucose, USA, pp.1-8.
- Al Argan R, Alkhafaji D, Al elq A, Albaker W, Alqatari A, Al zaki 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, in International Journal of General Medicine, p: 9445-57
- Al-kuraishy HM, Al-Gareeb AI, Alblihed M, Guerreiro SG, Martins NC, Batiha GE, 2021a, Covid-19 COVID-19 in Relation to Hyperglycemia and Diabetes Mellitus in Frrontiers in Cardiovascular Medicine Vol.8, p: 1-13
- Al-kuraishy HM, Al-Gareeb AI, Faidah H, Al-Maiyah TJ, Martins NC, Batiha GE, 2021 b, The Looming Effects of Estrogen in Covid-19: A Rocky Rollout in Frontiers in Nutrition Vol.8, p: 1 – 8.
- Apicella M, Campopiana MC, Mantuana M, Manzoni M, Manzoni L, Coppelli A *et al.*, 2020, COVID-19 in People with Diabetes: Understanding The Reasons for Worse Outcomes in Lancet Diabetes Endocrinol: 8. P: 782-92
- Aykal G, Esen H, Seyman D, Çalışkan T, 2021, Could IL-6 predict the clinical severity of COVID-19? in Turkish Journal Biochemistry, p: 499-507.
- Aziz M, Fatima R, Assaly R, 2020, Elevated Interleukin-6 and Severe COVID-19: A Meta-Analysis in Journal of Medical Virology, p: 2283-5
- Biswas M, Rahaman S, Biswas TK, Haque Z, Ibrahim B, 2021, Association of Sex, Age, and Comorbodities with Mortality in COVID-19 Patients: A Systematic Review and Meta-Analysis. Intervirology (64); p: 36 – 47.
- Bode B, Garret V, Messier J, Mc Fraland R, Vrowe J, Booth Robby et.al., 2020, Glycemic Characteristic and clinical Outcomes of Covid-19 Patients Hospitalized in the United States in Juornal of Diabetes Science and technology Society Vol.14, p:813-21
- Bordallo B, Bellas M, Cortec AF, Viera M, Pinheiro M, 2020. Severe COVID-19: What Have We Learned with The Immunophatogenesis?. Advances in Rheumatology. 60(50):1-13.
- Bratawidjaja KG & Rengganis I, 2018, Sitokin dalam Imunologi dasar Ed. 12, p: 216-17
- Bwire GM, 2020, Coronavirus: Why Men are More Vulnerable to Covid-19 than in Women in SN Comprehensive Clinical Medicine, p: 1-3
- Burhan E., Susanto A.D., Nasution S.A., Ginanjar E., Pitoyo C.W., Susilo A., *et al.* 2022. Pedoman Tatalaksana COVID-19 Edisi 4. Jakarta: Perhimpunan Dokter Paru Indonesia, Perhimpunan Dokter Spesialis Kardiovaskular Indonesia, Perhimpunan Dokter Spesialis Penyakit Dalam Indonesia, Perhimpunan Dokter Anestesiologi dan Terapi Intensif Indonesia, Ikatan Dokter Anak Indonesia.
- Cevik M, Kuppalli K, Kindrachuk J, Peiris M, 2020, Virology, transmission, and pathogenesis of SARS-CoV-2 in The BMJ, p: 1-6
- Charoenngam N, Alexian SM, Apovian CM, Holick MF, 2021, Association between Hyperglycemia at Hospital Presentation and Hospital Outcomes in

- COVID-19 Patients with and without Type 2 Diabetes: A Retrospective Cohort Study of Hospitalized Inner-City COVID-19 Patients in Nutrients p: 1-12.
- Chatterjee K, Saha S, Munoz MNM, 2020, Molecular Pathogenesis, Immunopathogenesis and Novel Therapeutic Strategy Against COVID-19 in Frontiers in molecular biosciences Vol 7, p: 1-11
- Chen LYC, Hoiland RL, Stukas S, Wellington CL, Sekhon MS, 2020a, Confronting the controversy: interleukin-6 and the COVID-19 cytokine storm syndrome in European Respiratory Journal
- Chen T, Wu D, Chen H, Yan W, Yang D, Chen G, 2020b, Clinical Characteristics Of 113 Deceased Patients with Coronavirus Disease 2019: Retrospective Study in The British Medical journal, p: 1-14
- Cheng L, Li H, Li L, Liu C, Yan S, Chen H et al., 2020, Ferritin In The coronavirus Disease 2019 (COVID-19): A Systematic Review and Meta-Analysis. J Clin Lab Anal; e23618, p: 1-18.
- Cruz AS, Frias AM, Oliveira AI, Dias L, Matos AR, Carvalho A et al, 2021, Interleukin-6 Is a Biomarker for the Development of Fatal Severe Acute Respiratory Syndrome Coronavirus 2 Pneumonia in Frontiers in Immunology Vol 12, p: 1-9
- Codo AC, Davanzo GG, Monteiro LB, 2020, Elevated Glucose Level Favor SARS-CoV-2 Infection and Monocyte Response Through a HIF-1 α /glycolysis-Dependent Axis in Cell Metabolism, p; 437-46
- Escudero GS, Vega MFC, García VG, Valverde SM, Toledano FT, Espinosa JG, 2020, A Survival Analysis Of COVID-19 In TheMexican Population in BMC Public Health, p: 1-8.
- Espinosa OA, Zannetti AS, Antunes EF, Longhi FG, Matos TA, Battaglini PF, 2020, Prevalence of Comorbidities in Patients and Mortality Cases Affected by SARS-CoV2: a Systematic Review and Meta-analysis, p:1-13.
- Fadini GP, Morieri ML, Boscarini F, Fioretto P, Maran A, Busetto L et al., 2020, Newly-Diagnosed Diabetes and Admission Hyperglycemia Predict COVID-19 Severity by Aggravating Respiratory Deterioration In Diabetes Research And Clinical Practice, p: 1-10
- Fatima SH, Viqar U, Ahmed T, Kazmi MH, 2020, The Possible Immunopathogenesis of SARS-CoV-2 Infection- A review of Immune Changes in Patients wtih Covid-19 in Indian Journal of Pathology and Oncology, p: 519-26
- Gorham J, Moreau A, Corazza F, Peluso L, Ponthieux F, Talamonti M, 2020, Interleukine-6 in critically ill COVID-19 patients: A retrospective analysis in Plos One, p: 1 - 11
- Goya RL, Rico AU, Talayero P, Lazaro ML, Fernandez AR, Naranjo L, 2020, IL-6-based mortality risk model for hospitalized patients with COVID-19 in Journal of Allergy and Clinical Immunology, p: 799-806
- Guan WJ, Liang WH, Zhao Y, Liang H, Chen Z, Li My et al., 2020, Comorbidity and Its Impact On 1590 Patients With COVID-19 In China: a Nationwide Analysis in European Respirology Journal, p: 1-14.
- Gubernatorova AO, Gorshkova EA, Polinova AI, Drutskaya MS, 2020. IL-6: Relevance for Immunopathology of SARS-CoV-2. Cytokine and Growth Factor Reviews, 53(2020); 13–24.

- Insert Kit Elecsys, 2020. Interleukin 6. Cobas p: 2-4.
- Joly B, Siguret V, Veyraditer A, 2020, Understanding Pathophysiology of Hemostasis Disorder in Critically Ill Patients With COVID-19. *Intensive Care Med*, p: 1-4
- Kementerian Kesehatan Republik Indonesia, 2020, Pedoman Pencegahan dan Pengendalian Coronavirus Disease (COVID-19), Ed. 3, Jakarta: Kementerian Kesehatan RI, p: 17-71
- Kementerian Kesehatan Republik Indonesia, 2021, *Dashboard Data Kasus COVID-19 di Indonesia*
- Kermali M, Khalsa RK, Pillai K, Ismail Z, Harky A, 2020. The Role of Biomarkers In Diagnosis Of COVID-19 – A Systematic Review. *Life Sciences*, 254(2020):1-12.
- Kumar B, Mittal M, Gopalakrishnan M, Garg MK, Misra S, 2021, Effect of Plasma Glucose at Admission on Covid-19 Mortality: Experience From A Tertiary Hospital in Bioscientifica, p: 589-98
- Lazarus G, Audrey J, Wangsaputra VK, Tamara A, Tahapary DL, 2020, High admission blood glucose independently predicts poor prognosis in COVID-19 patients: A systematic review and dose-response meta-analysis, in *Diabetes Research and Clinical Practice*, p: 1-12
- Li G, Fan Y, Lai Y, Han T, Li Z, Zhou P et al., 2020 (a), Coronavirus infections and immune responses, *Journals of Medical Virology*, 92, p: 424-32.
- Li Y, Han X, Alwailid O, Cui Y, Cao Y et al., 2020 (b), Baseline Characteristic and Risk Factor For Short-term Outcome in 132 Covid-19 Patient With Diabetes in Wuhan China: A Retrospective Study in Diabetes Research and Clinical Practice, p: 1-10
- Lim S, Bae JH, Kwon HS, Nauck MA, 2020, in Covid-19 and Diabetes Mellitus: From Pathophysiology to Clinical Management in *Nature Reviews Endocrinology*, p: 1-20
- McMichael TM, Currie DW, Clark S, Pogosjans S, Kay M, Schwartz NG et al., 2020, Epidemiology of Covid-19 In A Long-Term Care Facility in King County, Washington in *The New England Journal of Medicine*, p: 1-7.
- Mubarik S, Liu X, Eshak ES, Liu K, Liu Q, Wang F et al., 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 in *Frontiers in Medicine* Vol.8, p: 1-13.
- Mueller AL, McNamara MS, Sinclair DA, 2020, Why does COVID-19 disproportionately affect older people? In *Aging* Vol.12, No. 10 p: 9959-69.
- Panigada M, Bottino N, Tagliabue P, Grasselli G, Novembrino C, Chantarangkul V et al., 2020, Hypercoagulability of COVID-19 Patients in Intensive Care Unit. A Report of Thromboelastography Findings and Other Parameters Hemostasis. *J Thromb Haemost*, p: 1738-42
- Pasrija R and Naime M, 2021, The deregulated immune reaction and cytokines release storm (CRS) in COVID-19 disease in International Immunopharmacology 90, p: 1-10
- Permana H, Huang I, Susandi E, Wisaksana R, 2021, The Association of Admission Random Blood Glucose Concentration and Body-Mass Index with Mortality In COVID-19 Patients in *European Review For Medical And Pharmacological Sciences*, p: 7144-50.

- Polverino F, Stern DA, Ruocco G, Balestro E, Bassetti M, Candelli M *et al.*, 2020, Comorbidities, Cardiovascular Therapies, and COVID-19 Mortality: A Nationwide, Italian Observational Study (ItaliCO). *Frontiers in Cardiovascular Medicine* Vol.7, p: 1-11
- Rosenber WMC, Badrick T ,Lo SF, Tanwara S, 2023, Liver Disease in *Tietz Textbook of Laboratory Medicine*, 7th Ed, Editor: Rifai N, Chiu RWK, Young I, Burnham CD and Wittwer CT, USA: Sanders Elsevier, p; 701-17
- Sanchez FJC, Carmona MDL, Marcos FJM, Belmonte LMP, Jimenez AH, Buonaiuto V *et al.*, 2020, Admission hyperglycemas a predictor of mortality in patients hospitalized with COVID-19 regardless of diabetes status: Data from the Spanish SEMI-COVID-19 Registry in *Annals of Medicine*, p:1-24.
- Sardu Celestino, D'Onofrio N, Balestrieri ML, Barbieri M, Rizzo MR, Messina V *et.al.*, 2020, Outcome in PatientsWith Hyperglycemia Affected by Covid-19: Can We Do More on Glycemic Control? In *Diabetes Care*, p: 1-8
- Seah I, Su X, Lingam G, 2020, Revisting the Danger of the Coronavirus in the ophthalmology Practice in Eye, P: 1155-57
- Soy M, Kesser G, Atagunduz P, Tebak F, Atagunduz I, Kayhan S.2020. Cytokine Storm in COVID-19: Pathogenesis and Overview of Anti-Inflammatory Agents Used in Treatment. *Clinical Rheumatology*, 39:2085–2094.
- Sun H, Guo P, Zhang L, Wang F, 2020, Serum interleukin-6 Concentration and the severity of COVID-19 Pneumonia: a retrospective Study at a single Center in Bengbu City, Anhui Province, China, in January and February 2020. In *Medical Science*. P. 1-6
- Talebi SS, Hosseinzadeh A, Zare F, Daliri S, Atergeleh HJ, Khosravi A *et. al*, 2022, Risk Factors Associated with Mortality in COVID-19 Patient's: Survival Analysis in *Iran J Public Health*, Vol. 51, No.3, p:652-58.
- Tali SHS, LeBlanc JJ, Sadiq Z, Oyewunmi OD, Camargo C, Nikpour B *et.al*, 2021, Tools and Techniques for Severe Acute Respiratory Distress Coronavirus 2 (SARS-CoV-2)/ COVID-19 Detection in Clinival Microbiology Review, p: 1-37
- Terpos E, Ntanasis-Stathopoulos I, Elalamy I, Kastritis E, Sergentanis TN, Politou M, *et al.* Hematological Findings and Complications of COVID-19. *American Journal of Hematology*. 2020; 95: 834-47
- Thompson S, Bohn MK, Manchini N, Loh TP, Wang C-B, Grimmier M *et al.*, 2020, IFCC Interim Guidelines on Biochemical/Hematological Monitoring of COVID-19 Patients in *Clin Chem Lab Med*, p: 2009-2016.
- Valle DMD, Schulze SK, Huang HH, Beckmann ND, Nirenberg, Wang B *et al.*, 2020, An inflammatory cytokine signature predicts COVID-19 severity and survival in *Nature Medicine*, p; 1636-43
- V'kovski P, Kratzel A, Steiner S, Stalder H,Thiel V, 2021, Coronavirus Biology and Replication:Implications for SARS-CoV-2 in *Nature Review* Vo. 19, p: 155-77
- Wang J and Meng W, 2020, COVID-19 and Diabetes: The Contributions of Hyperglycemia in *Journal of Molecular Cell Biology*, p: 958–62
- Wang S, Mai P, Zhang S, Song S, Wang Z, Ma Y, 2020, Fasting Blood Glucose at Admission is an Independent Predictor for 28-Day Mortality in Patients with

- Covid-19 Without Previous Diagnosis of Diabetes: a Multi-Centre Retrospective Study in Diabetologia, p: 1-10
- Wang W, Shen M, Tao Y, Fairley CK, Zhong Q, Li Z et al., 2021, Elevated glucose level leads to rapid COVID-19 progression and high fatality in BMC Pulmonary medicine, p: 1 - 13
- World Health Organization, 2021, Novel Coronavirus (2019-nCoV) Situation report, Available from: <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-report>.
- Yan Y, Yang Y, Wang F, Ren H, Zhang S, Shi X et.al, 2020, Clinical Characteristics and Outcomes of Patients with Severe Covid-19 with Diabetes in BMJ Open Diabetes & Care, p: 1-10
- Yang L, Liu S, Liu J, Zhang Z, Wan X, Huang B, 2020, Covid-19: Immunopathogenesis and Immunotherapeutics in Signal Transduction and Targeted Therapy, p: 1-5
- Yang L, Xie X, Tu Z, Fu J, Xu D, Zhou Y, 2021a, The Signal Pathway and Treatment of Cytokine storm in Covid-19 in Springer Nature, p: 1-20
- Yang Y, Cai Z, Zhang J, 2021b, Hyperglycemia at Admission is a Strong Predictor of Mortality and Severe/ Critical Complication in Covid-19 Patients: a Meta-analysis in Bioscience Reports, p: 1-9
- Yu D, Du Q, Yan S, Guo XG, He Y, Zhu G, et al., 2021, Liver Injury in COVID-19: Clinical Features and Treatment Management in Virology Journal, p: 1-9.
- Zafer MM, El-Mahallawy HA, Ashour HM. 2021. Severe COVID-19 and Sepsis: Immune Pathogenesis and Laboratory Markers. Microorganisms; 9(159):1-13.
- Zhang W, Li C, Xu Yu, He B, Hu M, Cao G et.al, 2021, Hyperglycemia and Correlated High level of Inflammation Have a Positive Relationship with Severity of Coronavirus Disease 2019 in Hindawi, p: 1-9
- Zhang Y, Li H, Zhang J, Cao Y, Zhao X, Yu N, et.al, 2020, The Clinical Characteristics And Outcomes of Patients with Diabetes And Secondary Hyperglycaemia with Coronavirus Disease 2019: A Single-Centre, Retrospective, Observational Study in Wuhan <https://pubmed.ncbi.nlm.nih.gov/32406594/>, diakses pada 20 Agustus2021.
- Zhao Y, Zhao Z, Wang Y, Zhou Y, Ma Y, Zuo W, et al., 2020, single Cell RNA Expression Profiling of ACE2, the receptor of SARS-CoV-2 in American Journal of Respiratory and Critical Care Medicine Vol. 202 No.5, p: 756-9
- Zhou F, Yu T, Du R, Fan G, Liu Y, Liu Z et al., 2020, Clinical Course and Risk Factors For Mortality of Adult Inpatients With COVID-19 In Wuhan,China: A Retrospective Cohort Study in Lancet Vol. 395, p: 1054 – 61.
- Zumla A, Hui DS, Azhar EI, Memish ZA, Maeurer M, 2020, Reducing mortality from 2019-nCoV: host-directed therapies should be an option, Lancet, 395, p: 35-6.