

DAFTAR PUSTAKA

- Adil, A. *et al.* (2021) "Acute kidney injury incidence following cardiac surgery: A risk factor analysis," *Bali Journal of Anesthesiology*, 5(1), hal. 6–10. Tersedia pada: https://doi.org/10.4103/BJOA.BJOA_202_20.
- Al-sarraf, N. *et al.* (2011) "Cross-clamp time is an independent predictor of mortality and morbidity in low- and high-risk cardiac patients," *International Journal of Surgery*, 9(1), hal. 104–109. Tersedia pada: <https://doi.org/10.1016/j.ijsu.2010.10.007>.
- Arif, A. *et al.* (2022) "Correlation of prolonged Cardiopulmonary Bypass time with Postoperative Complications - A prospective review," *Pakistan Journal of Medical and Health Sciences*, 16(4), hal. 23–24. Tersedia pada: <https://doi.org/10.53350/pjmhs2216423>.
- Axtell, A.L. *et al.* (2020) "Correlation of cardiopulmonary bypass duration with acute renal failure after cardiac surgery," *Journal of Thoracic and Cardiovascular Surgery*, 159(1), hal. 170-178.e2. Tersedia pada: <https://doi.org/10.1016/j.jtcvs.2019.01.072>.
- Balcı, E. dan Özay, H.Y. (2022) "Age , body mass index , and diabetes mellitus are associated with an increased risk of acute kidney injury after coronary surgery : Retrospective cohort study," *Journal of Surgery and Medicine*, 6(6), hal. 619–622. Tersedia pada: <https://doi.org/10.28982/josam.1112206>.
- Bandookwala, M. dan Sengupta, P. (2020) "3-Nitrotyrosine: a versatile oxidative stress biomarker for major neurodegenerative diseases," *International Journal of Neuroscience*, 130(10), hal. 1047–1062. Tersedia pada: <https://doi.org/10.1080/00207454.2020.1713776>.
- Boldt, J. *et al.* (2003) "Is kidney function altered by the duration of cardiopulmonary bypass?," *Annals of Thoracic Surgery*, 75(3), hal. 906–912. Tersedia pada: [https://doi.org/10.1016/S0003-4975\(02\)04559-9](https://doi.org/10.1016/S0003-4975(02)04559-9).
- Cardinale, D. *et al.* (2019) "High-volume hydration for the prevention of acute kidney injury after cardiac surgery," *Journal of Thoracic Disease*, 11(23), hal. S1135–S1138. Tersedia pada: <https://doi.org/10.21037/jtd.2019.04.45>.
- Diodato, M. dan Chedrawy, E.G. (2014) "Coronary artery bypass graft surgery: The past, present, and future of myocardial revascularisation," *Surgery Research and Practice*, 2014, hal. 1–6. Tersedia pada:

<https://doi.org/10.1155/2014/726158>.

- Dogan, A. dan Turker, F.S. (2017) "The Effect of On-Pump and Off-Pump Bypass Operations on Oxidative Damage and Antioxidant Parameters," *Oxidative Medicine and Cellular Longevity*, 2017. Tersedia pada: <https://doi.org/10.1155/2017/8271376>.
- Durmaz, D., Gündöner, S. dan Tekümit, H. (2025) "Association of Aortic Cross-Clamping Time with Systemic Immune Inflammation and Systemic Inflammatory Response Indexes in Isolated Coronary Bypass Surgery," *Braz J Cardiovasc Surg*, 40(77).
- García-de-la-asunción, J. *et al.* (2013) "Oxidative stress injury after on-pump cardiac surgery : Effects of aortic cross clamp time and type of surgery Oxidative stress injury after on-pump cardiac surgery : Effects of aortic cross clamp time and type of surgery," *Redox Report*, 18(5), hal. 193–199. Tersedia pada: <https://doi.org/10.1179/1351000213Y.0000000060>.
- García-de-la-Asunción, J. *et al.* (2013) "Oxidative stress injury after on-pump cardiac surgery: Effects of aortic cross clamp time and type of surgery," *Redox Report*, 18(5), hal. 193–199. Tersedia pada: <https://doi.org/10.1179/1351000213Y.0000000060>.
- Hayashi, Y. *et al.* (2001) "After Ischemia-Reperfusion During Open," *Ann Thorac Surg*, 4975(01).
- Hui, Y. *et al.* (2012) "A simple and robust LC-MS/MS method for quantification of free 3-nitrotyrosine in human plasma from patients receiving on-pump CABG surgery," *Electrophoresis*, 33(4), hal. 697–704. Tersedia pada: <https://doi.org/10.1002/elps.201100368>.
- Hussein, H.A. *et al.* (2022) "Association of Cardiopulmonary Bypass and Aortic Cross-Clamp Durations with ICU Length of Stay in Cardiac Surgery Patients : A Retrospective Study at Nasiriya Heart Center . Running Title : Impact of CPB and Cross-Clamp Times on ICU Stay," *Archives of Anesthesiology and Critical Care*, 0.
- Imaniar, I., Pratomo, B.Y. dan Jufan, A.Y. (2023) *Hubungan Antara Durasi Cardiopulmonary Bypass dengan Kejadian Gagal Ginjal Akut Pasca Operasi pada Pasien yang Menjalani Operasi Bedah Jantung di RSUP Dr Sardjito, Universitas Gadjah Mada*.
- Iqbal, J.U. *et al.* (2014) "Effect of Aortic Cross Clamp Time on Renal Function in

- Patients Undergoing Coronary Artery Bypass Grafting,” *Esculapio*, 10(03), hal. 114–117.
- Jing, H. *et al.* (2022) “Predicting the risk of acute kidney injury after cardiopulmonary bypass: development and assessment of a new predictive nomogram,” *BMC Anesthesiology*, 22(1), hal. 1–12. Tersedia pada: <https://doi.org/10.1186/s12871-022-01925-w>.
- Kamenshchikov, N.O. *et al.* (2020) “Nitric oxide delivery during cardiopulmonary bypass reduces acute kidney injury : A randomized trial,” *The Journal of Thoracic and Cardiovascular Surgery*, 163(4), hal. 1393-1403.e9. Tersedia pada: <https://doi.org/10.1016/j.jtcvs.2020.03.182>.
- Kamenshchikov, N.O. *et al.* (2025) “Conditioning Reduces Acute Kidney Injury in Cardiac Surgery Patients with Chronic Kidney Disease (the DEFENDER,” *Anesthesiology*, 143(2), hal. 287–299. Tersedia pada: <https://doi.org/10.1097/ALN.0000000000005494>.
- Karim, H. *et al.* (2017) “Incidence and progression of cardiac surgery-associated acute kidney injury and its relationship with bypass and cross clamp time,” *Annals of Cardiac Anaesthesia*, 20(1), hal. 22–27. Tersedia pada: <https://doi.org/10.4103/0971-9784.197823>.
- Katseni, K. *et al.* (2015) “The Effect of Perioperative Ischemia and Reperfusion on Multiorgan Dysfunction following Abdominal Aortic Aneurysm Repair,” *BioMed Research International*, 2015. Tersedia pada: <https://doi.org/10.1155/2015/598980>.
- Kumar, A.B. *et al.* (2012) “Association between postoperative acute kidney injury and duration of cardiopulmonary bypass: A meta-analysis,” *Journal of Cardiothoracic and Vascular Anesthesia*, 26(1), hal. 64–69. Tersedia pada: <https://doi.org/10.1053/j.jvca.2011.07.007>.
- Lei, C. *et al.* (2018) “Nitric Oxide Decreases Acute Kidney Injury and Stage 3 Chronic Kidney Disease after Cardiac Surgery,” 198, hal. 1279–1287. Tersedia pada: <https://doi.org/10.1164/rccm.201710-2150OC>.
- Li, S. *et al.* (2024) “Prolonged Cardiopulmonary Bypass Time-Induced Endothelial Dysfunction via Glypican-1 Shedding , Inflammation , and Matrix Metalloproteinase 9 in Patients Undergoing Cardiac Surgery,” *Biomedicines*, 13, hal. 33.
- Liu, D. *et al.* (2021) “Acute Kidney Injury following Cardiopulmonary Bypass: A

- Challenging Picture,” *Oxidative Medicine and Cellular Longevity*, 2021. Tersedia pada: <https://doi.org/10.1155/2021/8873581>.
- Madhavan, S. *et al.* (2018) “Cardiopulmonary bypass time : every minute counts,” *Edizioni Minerva Medica*, 59(2), hal. 274–281. Tersedia pada: <https://doi.org/10.23736/S0021-9509.17.09864-0>.
- Mathew, E. dan Joykutti, L. (2019) “Evaluating Biomarkers and Treatments for Acute Kidney Injury in a Zebrafish Model,” *Journal of Emerging Investigators*, 2(15), hal. 1–6.
- McIlroy, D.R. (2021) “Predicting acute kidney injury after cardiac surgery: much work still to be done,” *British Journal of Anaesthesia*, 127(6), hal. 825–828. Tersedia pada: <https://doi.org/10.1016/j.bja.2021.09.005>.
- Mehlhorn, U. *et al.* (2003) “Nitrotyrosine and 8-isoprostane formation indicate free radical-mediated injury in hearts of patients subjected to cardioplegia,” *Cardiopulmonary Support and Physiology*, 125(1). Tersedia pada: <https://doi.org/10.1067/mtc.2003.97>.
- Moh’d, A.F. *et al.* (2021) “Predictors of aortic clamp time duration and intensive care unit length of stay in elective adult cardiac surgery,” *Egyptian Heart Journal*, 73(1). Tersedia pada: <https://doi.org/10.1186/s43044-021-00195-0>.
- Montrief, T., Koyfman, A. dan Long, B. (2018) “Coronary artery bypass graft surgery complications: A review for emergency clinicians,” *American Journal of Emergency Medicine*, 36(12), hal. 2289–2297. Tersedia pada: <https://doi.org/10.1016/j.ajem.2018.09.014>.
- Nadeem, R. *et al.* (2019) “Impact of Cardiopulmonary Bypass Time on Postoperative Duration of Mechanical Ventilation in Patients Undergoing Cardiovascular Surgeries : A Systemic Review and Regression of Metadata,” *Cureus*, 11(11), hal. 1–7. Tersedia pada: <https://doi.org/10.7759/cureus.6088>.
- O’Neal, J.B., Shaw, A.D. dan Billings, F.T. (2016) “Acute kidney injury following cardiac surgery: Current understanding and future directions,” *Critical Care*, 20(1), hal. 1–9. Tersedia pada: <https://doi.org/10.1186/s13054-016-1352-z>.
- Orak, Y. *et al.* (2022) “Effect of mechanical ventilation during cardiopulmonary bypass on oxidative stress : a randomized clinical trial,” *Brazilian Journal of Anesthesiology (English edition)*, 72(1), hal. 69–76. Tersedia pada: <https://doi.org/10.1016/j.bjane.2021.06.024>.
- Özen, G. dan Aljesri, K. (2020) “Clinical characteristics of patients undergoing

- coronary artery bypass surgery: Focus on gender differences,” *Istanbul J Pharm*, 50(3), hal. 153–159. Tersedia pada: <https://doi.org/10.26650/IstanbulJPharm.2020.0063>.
- Papageorgiou, S.N. (2022) “On correlation coefficients and their interpretation,” *Journal of Orthodontics*, 49(3), hal. 359–361. Tersedia pada: <https://doi.org/10.1177/14653125221076142>.
- Pathiraja, C. et al. (2021) “Incidence of acute kidney injury after Off-pump coronary artery bypass grafting: single surgeon, single centre experience in Sri Lanka,” *Kidney International Reports*, 6(4), hal. S19. Tersedia pada: <https://doi.org/10.1016/j.ekir.2021.03.049>.
- Pontillo, D. et al. (2025) “Impact of Cardiopulmonary Bypass Duration on the Renal Effects of Amino Acids Infusion in Cardiac Surgery Patients,” *Journal of Cardiothoracic and vascular Anesthesia*, 39(9).
- Przepiorski, A. et al. (2022) “Modeling oxidative injury response in human kidney organoids,” *Stem Cell Research & Therapy*, hal. 1–16. Tersedia pada: <https://doi.org/10.1186/s13287-022-02752-z>.
- Qadan, L. et al. (2023) “Higher Body Mass Index and Prolonged Cardiopulmonary Bypass Time increase the Risk of Cardiac Surgery-associated Acute Kidney Injury,” *The Open Nursing Journal*, 17, hal. 18744346256499. Tersedia pada: <https://doi.org/10.2174/0118744346256499231006045858>.
- Qian, J. et al. (2013) “Nitrotyrosine level was associated with mortality in patients with acute kidney injury,” *PLoS ONE*, 8(11), hal. 1–7. Tersedia pada: <https://doi.org/10.1371/journal.pone.0079962>.
- Ramos, K.A. dan Dias, C.B. (2018) “Acute Kidney Injury after Cardiac Surgery in Patients Without Chronic Kidney Disease,” *Braz J Cardiovasc Surg*, 33(5), hal. 454–461. Tersedia pada: <https://doi.org/10.21470/1678-9741-2018-0084>.
- Rashid, H. et al. (2024) “Molecular Mechanisms of Oxidative Stress in Acute Kidney Injury: Targeting the Loci by Resveratrol,” *International Journal of Molecular Sciences*, 25(1). Tersedia pada: <https://doi.org/10.3390/ijms25010003>.
- Sela, O. et al. (2024) “Trends in Patient Characteristics and Cardiothoracic Surgeries over 14 Years (2010 – 2023): A Single Center Experience,” *Journal of Clinical Medicine*, 13.
- Senst, B., Kumar, A. dan Diaz., R.R. (2024) “Cardiac Surgery,” *StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing [Preprint]*. Tersedia pada:

<https://doi.org/10.1016/j.atssr.2023.11.019>.

- Serraino, G.F. *et al.* (2021) "Risk factors for acute kidney injury and mortality in high risk patients undergoing cardiac surgery," *PLoS ONE*, 16(5 May), hal. 1–13. Tersedia pada: <https://doi.org/10.1371/journal.pone.0252209>.
- Smith, L.E. *et al.* (2021) "Perioperative high density lipoproteins, oxidative stress, and kidney injury after cardiac surgery," *Journal of Lipid Research*, 62, hal. 100024. Tersedia pada: <https://doi.org/10.1016/J.JLR.2021.100024>.
- Swinkels, B.M. *et al.* (2021) "Effect of aortic cross-clamp time on late survival after isolated aortic valve replacement," *Interactive CardioVascular and Thoracic Surgery*, 32, hal. 222–228. Tersedia pada: <https://doi.org/10.1093/icvts/ivaa244>.
- Taniguchi, F.P., Souza, A.R. De dan Martins, A.S. (2007) "Cardiopulmonary bypass time as a risk factor for acute renal failure.," *Revista brasileira de cirurgia cardiovascular: órgão oficial da Sociedade Brasileira de Cirurgia Cardiovascular*, 22(2), hal. 201–5. Tersedia pada: <http://www.ncbi.nlm.nih.gov/pubmed/17992325>.
- Vives, M. *et al.* (2019) "Acute kidney injury after cardiac surgery: Prevalence, impact and management challenges," *International Journal of Nephrology and Renovascular Disease*, 12, hal. 153–166. Tersedia pada: <https://doi.org/10.2147/IJNRD.S167477>.
- Wang, Y. *et al.* (2023) "Gender differences and risk factors for acute kidney injury following cardiac surgery : A single center retrospective cohort study," *Heliyon*, 9(12), hal. e22177. Tersedia pada: <https://doi.org/10.1016/j.heliyon.2023.e22177>.
- Wang, Y. dan Bellomo, R. (2017) "Cardiac surgery-associated acute kidney injury: Risk factors, pathophysiology and treatment," *Nature Reviews Nephrology*, 13(11), hal. 697–711. Tersedia pada: <https://doi.org/10.1038/nrneph.2017.119>.
- Xu, S. *et al.* (2019) "Cardiopulmonary bypass time is an independent risk Sfactor for acute kidney injury in emergent thoracic aortic surgery : a retrospective cohort study," *Journal of Cardiothoracic Surgery*, 14(90), hal. 1–12.
- Yanga, M. *et al.* (2012) "Tyrosine nitration of voltage-dependent anion channels in cardiac ischemia-reperfusion: reduction by peroxynitrite scavenging," *Biochim Biophys Acta.*, 1817(11), hal. 2049–2059. Tersedia pada: <https://doi.org/10.1016/j.bbabbio.2012.06.004>.Tyrosine.

- Yuan, S.M. (2019) "Acute kidney injury after cardiac surgery: Risk factors and novel biomarkers," *Brazilian Journal of Cardiovascular Surgery*, 34(3), hal. 352–360. Tersedia pada: <https://doi.org/10.21470/1678-9741-2018-0212>.
- Zakkar, M. *et al.* (2015) "Cardiopulmonary bypass and oxidative stress," *Oxidative Medicine and Cellular Longevity*, 2015, hal. 10–12. Tersedia pada: <https://doi.org/10.1155/2015/189863>.
- Zou, Z. *et al.* (2018) "Role of Body Mass Index in Acute Kidney Injury Patients after Cardiac Surgery," *Cardiorenal Med*, 361015(668), hal. 9–17. Tersedia pada: <https://doi.org/10.1159/000477824>.