

DAFTAR PUSTAKA

- Asou, T. and Rachmat, J. (1998) 'Pediatric cardiac surgery in Indonesia', *Cardiology in the Young*, 8(4), pp. 437–439.
- Aubourg, C. et al. (2022) 'Risk Factors and Consequences of Late-Onset Hyperlactatemia After Cardiac Surgery With Cardiopulmonary Bypass: A Single-Center Retrospective Study', *Journal of Cardiothoracic and Vascular Anesthesia*, 36(11), pp. 4077–4084.
- Beaubien-Souligny, W. and et al. (2018) 'Association between type of cardiac surgery and intraoperative renal perfusion measured by Doppler ultrasound', *British Journal of Anaesthesia*, 121(5), pp. 1122–1130. Available at: <https://doi.org/10.1016/j.bja.2018.07.032>.
- Bellomo et al. (2019) 'Diabetes and kidney injury after cardiac surgery', *Intensive Care Med*.
- Berra, L. et al. (2013) 'Transfusion-associated organ injury: a narrative review', *British Journal of Anaesthesia*, 110(1), pp. 12–23. Available at: <https://doi.org/10.1093/bja/aes338>.
- Borde, D.P. and et al. (2020) 'Predictive value of ejection fraction on outcomes after cardiac surgery: A prospective cohort study', *The Journal of Thoracic and Cardiovascular Surgery*, 159(3), pp. 1015–1023. Available at: <https://doi.org/10.1016/j.jtcvs.2019.05.087>.
- Brooks (2018) 'The science and physiology of lactate', *Physiology*.
- Brown JR, et al (2015) 'Impaired renal function and low hematocrit during CPB are risk factors for postoperative renal dysfunction', *J Thorac Cardiovasc Surg*.
- Chaney MA (2016) 'Strategies for blood conservation in cardiac surgery', *J Cardiothorac Vasc Anesth*.
- Chen, S. et al. (2015) 'Effect of dexmedetomidine on myocardial ischemia-reperfusion injury', *International Journal of Clinical and Experimental Medicine*, 8(11), p. 21166.
- Conlon et al. (2019) 'Duration of CPB and AKI risk', *Kidney Int*.
- Corral-Velez, V. et al. (2015) 'The inflammatory response in cardiac surgery: an overview of the pathophysiology and clinical implications', *Inflamm Allergy Drug Targets*, 13(6), pp. 367–70.
- Crow, S. S. (2020) 'Use of vasoactive-inotropic score in adults and its association with morbidity and mortality after cardiac surgery', *Journal of Cardiothoracic and Vascular Anesthesia*, 34(2), pp. 408–416. Available at: <https://doi.org/10.1053/j.jvca.2019.04.045>.
- Dahlan, M.S. (2013) *Besar Sampel dan Cara Pengambilan Sampel*. Tiga. Jakarta: Salemba Medika, pp. 76–78.
- Day et al. (2020) 'Systemic inflammatory response after cardiopulmonary bypass', *Ann Thorac Surg*.
- Dixon, B., Santamaria, J.D. and Campbell, D.J. (2003) 'Plasminogen activator inhibitor activity is associated with raised lactate levels after cardiac surgery with cardiopulmonary bypass', *Critical care medicine*, 31(4), pp. 1053–1059.

- Dixon et al. (2019) 'Norepinephrine and lactate production', *Shock*.
- Ferdinandy et al. (2018) 'Preconditioning and postconditioning strategies in cardiac surgery', *J Am Coll Cardiol*.
- Fowler, A.J. et al. (2015) 'Meta-analysis of preoperative anemia and postoperative outcomes in patients undergoing cardiac surgery', *British Journal of Anaesthesia*, 115(6), pp. 819–832. Available at: <https://doi.org/10.1093/bja/aev314>.
- Gaies, M.G. et al. (2010) 'Vasoactive-inotropic score as a predictor of morbidity and mortality in infants after cardiopulmonary bypass', *Pediatric Critical Care Medicine*, 11(2), pp. 234–238. Available at: <https://doi.org/10.1097/PCC.0b013e3181b806fc>.
- Gammage et al. (2020) 'Hypotension and AKI in surgery', *J Cardiothorac Vasc Anesth*.
- Gao et al. (2022) 'Inflammation in reperfusion injury', *Front Cardiovasc Med*.
- Garcia-Dorado et al. (2019) 'Reperfusion injury: Pathophysiology and therapeutic opportunities', *Cardiovasc Res*.
- Gravlee, G.P. (2016) *Cardiopulmonary Bypass: Principles and Practice*. 4th Edition. Wolters Kluwer.
- Haase M, et al (2014) 'Pathogenesis of acute kidney injury after cardiopulmonary bypass: a review', *Crit Care*.
- Habib RH, et al (2017) 'Intraoperative hematocrit and acute kidney injury after on-pump coronary artery bypass surgery', *J Thorac Cardiovasc Surg*.
- Hajjar, L.A. et al. (2013) 'High lactate levels are predictors of major complications after cardiac surgery', *The Journal of Thoracic and Cardiovascular Surgery*, 146(2), pp. 455–460. Available at: <https://doi.org/10.1016/j.jtcvs.2013.02.003>.
- van Hall, G. (2010) 'Lactate kinetics in human tissues at rest and during exercise', *Physiology Reviews*, 90(2), pp. 449–489. Available at: <https://doi.org/10.1152/physrev.00019.2009>.
- Hausenloy & Yellon (2016) 'Ischemia-reperfusion injury in the myocardium', *N Engl J Med*.
- Himmelfarb et al. (2021) 'Oxidative stress and renal injury in CPB', *J Am Soc Nephrol*.
- Hod, E.A. et al. (2011) 'Transfusion of human volunteers with older, stored red blood cells produces extravascular hemolysis and circulating non-transferrin-bound iron', *Blood*, 118(25), pp. 6675–6682. Available at: <https://doi.org/10.1182/blood-2011-06-357442>.
- Hollander et al. (2020) 'Insulin and metabolic modulation in cardiac surgery', *J Thorac Cardiovasc Surg*.
- Kaplan, J.A. (2017) *Kaplan's Essentials of Cardiac Anesthesia E-Book*. Elsevier Health Sciences.
- Kaplan, J.A., Reich, D.L. and Savino, J.S. (2011) *Kaplan's cardiac anesthesia: the echo era*. St. Louis, Mo.: Saunders/Elsevier.
- Kaplan, R., & Savino (2018) *'Kaplan's Cardiac Anesthesia'*, Elsevier.
- Karkouti K, et al (2015) 'Hematocrit during cardiopulmonary bypass and postoperative acute kidney injury in adult cardiac surgery', *Anesthesiology*.

- Kim et al. (2021) 'CK-MB elevation and outcomes after cardiac surgery', *J Cardiothorac Vasc Anesth.*
- Kim, J. et al. (2020) 'Frequency and outcomes of elevated perioperative lactate levels in adult congenital heart disease patients undergoing cardiac surgery', *Journal of Cardiothoracic and Vascular Anesthesia*, 34(10), pp. 2641–2647.
- Kogan, A. et al. (2012) 'The impact of hyperlactatemia on postoperative outcome after adult cardiac surgery', *Journal of anesthesia*, 26, pp. 174–178.
- Koponen, T. et al. (2019) 'Vasoactive-inotropic score and the prediction of morbidity and mortality after cardiac surgery', *British Journal of Anaesthesia*, 122(4), pp. 428–436. Available at: <https://doi.org/10.1016/j.bja.2018.12.019>.
- Korenkevych, D. and et al. (2019) 'The Association Between Obesity and Postoperative Acute Kidney Injury in Cardiac Surgery Patients', *Journal of Cardiothoracic and Vascular Anesthesia*, 33(11), pp. 3032–3038. Available at: <https://doi.org/10.1053/j.jvca.2019.02.040>.
- Kristovic, D. and et al. (2015) 'Acute kidney injury following different types of cardiac surgery procedures', *Croatian Medical Journal*, 56(6), pp. 575–581. Available at: <https://doi.org/10.3325/cmj.2015.56.575>.
- Lang, B.H.-H., Ng, S.-H. and Wong, K.P. (2015) 'Pain and surgical outcomes with and without neck extension in standard open thyroidectomy: a prospective randomized trial', *Head & Neck*, 37(3), pp. 407–412. Available at: <https://doi.org/10.1002/hed.23611>.
- Lazar, H.L. et al. (1995) 'Determinants of length of stay after coronary artery bypass graft surgery', *Circulation*, 92(9), pp. 20–24.
- Licker M, et al (2016) 'Hemodilution and oxygen delivery during cardiopulmonary bypass: effects on renal function', *Ann Thorac Surg*.
- Lindsay, A.J. et al. (2013) 'Lactate clearance time and concentration linked to morbidity and death in cardiac surgical patients', *The Annals of thoracic surgery*, 95(2), pp. 486–492.
- Lopaschuk et al. (2021) 'Metabolic flexibility in the heart', *Circ Res*.
- Mak, N.T. et al. (2016) 'Outcomes of post-cardiac surgery patients with persistent hyperlactatemia in the intensive care unit: a matched cohort study', *Journal of Cardiothoracic Surgery*, 11, pp. 1–8.
- Mehta et al. (2016) 'AKI after cardiac surgery: epidemiology and outcomes', *Clin J Am Soc Nephrol*.
- Moranville, M.P. and et al. (2017) 'Predictors of Acute Kidney Injury After Cardiac Surgery', *Annals of Pharmacotherapy*, 51(5), pp. 390–397. Available at: <https://doi.org/10.1177/1060028016687534>.
- Muñoz, M. et al. (2017) 'International consensus statement on the peri-operative management of anaemia and iron deficiency', *Anaesthesia*, 72(2), pp. 233–247. Available at: <https://doi.org/10.1111/anae.13773>.
- Murphy et al. (2016) 'Myocardial energy metabolism during ischemia and reperfusion', *Cardiovasc Res*.
- Ng et al. (2020) 'Hemodilution and kidney injury in cardiac surgery', *Kidney Int*.
- Nissenson, A.R. (2020) *Handbook of Perfusion Technology*. Academic Press.

- O'Connor, E. and Fraser, J.F. (2012) 'The Interpretation of Perioperative Lactate Abnormalities in Patients Undergoing Cardiac Surgery', *Anaesthesia and Intensive Care*, 40(4), pp. 598–603. Available at: <https://doi.org/10.1177/0310057X1204000404>.
- O'Connor et al. (2021) 'Mitochondrial dysfunction and lactate in cardiac surgery', *Crit Care*.
- Palomba, H.C. and et al. (2014) 'Acute kidney injury prediction following elective cardiac surgery: AKICS Score', *Kidney International*, 86(4), pp. 789–796. Available at: <https://doi.org/10.1038/ki.2014.50>.
- Parikh et al. (2020) 'Combined biomarkers in postoperative cardiac care', *Crit Care Med*.
- Ponikowski, P. et al. (2016) '2016 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure', *European Heart Journal*, 37(27), pp. 2129–2200. Available at: <https://doi.org/10.1093/eurheartj/ehw128>.
- Qanitha, A. et al. (2018) 'Characteristics and the average 30-day and 6-month clinical outcomes of patients hospitalised with coronary artery disease in a poor South-East Asian setting', *BMJ open*, 8(6), p. e021996.
- Radović, N. et al. (2019) 'Serum lactate as a predictor of acute kidney injury after elective cardiac surgery', *Bosnian Journal of Basic Medical Sciences*, 19(1), pp. 41–45. Available at: <https://doi.org/10.17305/bjbms.2018.3625>.
- Ranucci et al. (2019) 'Minimized extracorporeal circulation circuits', *Perfusion*.
- Ranucci, M. et al. (2021) 'Preoperative Anemia Correction in Cardiac Surgery: A Propensity-Matched Study', *Journal of Cardiothoracic and Vascular Anesthesia*, 35(3), pp. 874–881. Available at: <https://doi.org/10.1053/j.jvca.2020.07.015>.
- Ranucci M, et al (2015) 'Impact of hemodilution on oxygen delivery in cardiac surgery', *J Cardiothorac Vasc Anesth*.
- RS Jantung dan Pembuluh Darah Harapan Kita (2024) RSJPD Harapan Kita Melaksanakan 2019 Operasi Bedah Jantung Dewasa Selama Tahun 2023. Available at: <https://harapakitaline.or.id/2024/01/03/rsjpd-harapan-kita-melaksanakan-2019-operasi-bedah-jantung-dewasa-selama-tahun-2023/>.
- Seghrouchni, A. et al. (2022) 'Does severe hyperlactatemia during cardiopulmonary bypass predict a worse outcome?', *Annals of Medicine and Surgery*, 73, p. 103198.
- Smith Jr, S.C. et al. (2006) 'AHA/ACC guidelines for secondary prevention for patients with coronary and other atherosclerotic vascular disease', *Circulation*, 113(19), pp. 2363–2372.
- de Somer F, et al (2017) 'Impact of blood flow rate and hemodilution on renal outcome after cardiac surgery', *Perfusion*.
- Sucipto, D., Susanto, R. and Fadilah, N. (2020) 'Hubungan Antara Dukungan Keluarga Dengan Kepatuhan Diet Pasien Gagal Ginjal Kronik Di RSUD Tugurejo Semarang', *Nursing and Health Sciences Journal (NHSJ)*, 1(1), pp. 25–31.
- Tesfaye, T. et al. (2021) 'Hyperlactatemia and its adverse patient outcomes among patients who underwent cardiopulmonary bypass surgery at national cardiac centre Addis Ababa, Ethiopia 2021. Retrospective observational study'.

- Thakar et al. (2018) 'Severe AKI and mortality after cardiac surgery', *Nephrol Dial Transplant*.
- Thielmann et al. (2017) 'Troponin as a biomarker in cardiac surgery', *Eur J Cardiothorac Surg*.
- Turer et al. (2019) 'Calcium overload and myocardial injury', *Circ Res*.
- Wang, Y. and Bellomo, R. (2017) 'Cardiac surgery-associated acute kidney injury: risk factors, pathophysiology and treatment', *Nature Reviews Nephrology*, 13(11), pp. 697–711. Available at: <https://doi.org/10.1038/nrneph.2017.119>.
- Wang, Y. and et al. (2019) 'Preoperative left ventricular ejection fraction and risk of postoperative acute kidney injury: a cohort study', *Nephrology Dialysis Transplantation*, 34(11), pp. 1903–1910. Available at: <https://doi.org/10.1093/ndt/gfz055>.
- Wang, Y. and et al. (2023) 'Type of cardiac surgery and risk of postoperative acute kidney injury: a meta-analysis', *Journal of Cardiothoracic and Vascular Anesthesia*, 37(1), pp. 89–97. Available at: <https://doi.org/10.1053/j.jvca.2022.07.019>.
- Wartier, D.C., Pagel, P.S. and Kersten, J.R. (2014) 'Pulsatile and nonpulsatile cardiopulmonary bypass: the effects on renal function and the release of endothelin-1 and nitric oxide', *The Journal of Thoracic and Cardiovascular Surgery*, 148(1), pp. 364–370. Available at: <https://doi.org/10.1016/j.jtcvs.2014.02.030>.
- Wiedermann, C.J. and Wiedermann, W. (2016) 'Hypoalbuminemia and acute kidney injury: a meta-analysis of observational clinical studies', *Intensive Care Medicine*, 42(7), pp. 968–976. Available at: <https://doi.org/10.1007/s00134-016-4274-4>.
- Wilamarta, K.V. et al. (2011) 'Adult congenital cardiac surgery in Indonesia', *Cardiology in the Young*, 21(6), pp. 639–645.
- World Health Organization (2023) Haemoglobin concentrations for the diagnosis of anaemia and assessment of severity. World Health Organization. Available at: <https://www.who.int/publications/i/item/9789240065455>.
- Yamashita M, et al (2018) 'Effects of low hematocrit during cardiopulmonary bypass on renal oxygenation and function', *Perfusion*.
- Zappitelli M, et al (2016) 'Hematocrit thresholds and kidney injury in pediatric cardiac surgery: A multicenter analysis', *Pediatr Nephrol*.
- Zhou, F. (2021) 'Lactate metabolism and renal function: A clinical perspective', *Kidney International Reports*.