

DAFTAR PUSTAKA

1. Pramudita E. Hubungan Antara Kematian dengan Durasi Kelebihan Cairan pada Pasien yang Mendapat Terapi Cairan di Ruang Rawat Intensif Rumah Sakit Ciptomangunkusumo. Universitas Indonesia; 2017.
2. Hansen B. Fluid Overload. Vol. 8, *Frontiers in Veterinary Science*. Frontiers Media S.A.; 2021.
3. Ker GL, Gangadharan S. Management of fluid overload in the pediatric ICU. In: *Pediatric Critical Care: Current Controversies*. Springer International Publishing; 2018. p. 193–209.
4. Leach RM, Treacher DF. Oxygen transport². Tissue hypoxia. *Bmj*. 1998;317:1370.
5. Rabbani G. Hubungan Balans Cairan Positif dengan Mortalitas dan Lama Rawat PICU pada Pasien Anak yang Dirawat di PICU. [Surakarta]: Universitas Sebelas Maret; 2016.
6. Foland JA, Fortenberry JD, Warshaw BL, Pettignano R, Merritt RK, Heard ML, et al. Fluid overload before continuous hemofiltration and survival in critically ill children: A retrospective analysis. Vol. 32, *Critical Care Medicine*. 2004. p. 1771–6.
7. Grist G, Whittaker C, Merrigan K, Fenton J, Worrall E, O'brien J, et al. The Correlation of Fluid Balance Changes During Cardiopulmonary Bypass to Mortality in Pediatric and Congenital Heart Surgery Patients.
8. Paramitha W, Triasih R, Rusmawatiningtyas D. Fluid overload and length of mechanical ventilation in pediatric sepsis. *Paediatr Indones*. 2019 Jul 18;59:211–6.
9. Woodcock TE, Woodcock TM. Revised Starling equation and the glycocalyx model of transvascular fluid exchange: An improved paradigm for prescribing intravenous fluid therapy. *Br J Anaesth*. 2012;108:384–94.
10. Kopač M. Evaluation of Hypervolemia in Children. *J Pediatr Intensive Care*. 2021 Mar;10:004–13.
11. Uchimido R, Schmidt EP, Shapiro NI. The glycocalyx: A novel diagnostic and therapeutic target in sepsis. Vol. 23, *Critical Care*. BioMed Central Ltd.; 2019.
12. Chappell D, Bruegger D, Potzel J, Jacob M, Brettner F, Vogeser M, et al. Hypervolemia increases release of atrial natriuretic peptide and shedding of the endothelial glycocalyx. *Crit Care*. 2014;18:1–8.
13. Pillinger NL, Kam PCA. Endothelial glycocalyx Endothelial glycocalyx: basic science and clinical implications. Vol. 45, *Anaesth Intensive Care*. 2017.
14. Giergiel M, Malek-Zietek KE, Konior J, Targosz-Korecka M. Endothelial glycocalyx detection and characterization by means of atomic force spectroscopy: Comparison of various data analysis approaches. *Micron*. 2021 Dec;151:103153.
15. Kundra P, Goswami S. Endothelial glycocalyx: Role in body fluid homeostasis and fluid management. *Indian J Anaesth*. 2019;63:6–14.
16. Xu J, Jiang W, Li Y, Li H, Geng X, Chen X, et al. Association Between Syndecan-1, Fluid Overload, and Progressive Acute Kidney Injury After

- Adult Cardiac Surgery. *Front Med.* 2021 Jul 30;8.
17. Jain A. Body Fluid Composition. *Pediatrics in Review.* 2015 Apr;141–52.
 18. Crawford D. Understanding fluid homeostasis in infants and children: part 1. *Nurs Child Young People.* 2018 Feb 7;30:39–46.
 19. Feld LG, Neuspiel DR, Foster BA, Leu MG, Garber MD, Austin K, et al. Clinical Practice Guideline: Maintenance Intravenous Fluids in Children [Internet]. Vol. 142, *Pediatrics.* 2018.
 20. Raina R, Sethi SK, Wadhvani N, Vemuganti M, Krishnappa V, Bansal SB. Fluid overload in critically ill children. Vol. 6, *Frontiers in Pediatrics.* Frontiers Media S.A.; 2018.
 21. Alobaidi R, Morgan C, Basu RK, Stenson E, Featherstone R, Majumdar SR, et al. Association between fluid balance and outcomes in critically ill children: A systematic review and meta-analysis. Vol. 172, *JAMA Pediatrics.* American Medical Association; 2018. p. 257–68.
 22. Martínez-garcía JJ, León-sicairos NM. Fluid balance and acute kidney injury in septic shock. *Boletín Médico del Hosp Infant México (English Ed.)* 2017;74:282–8.
 23. Chen X, Xu J, Li Y, Shen B, Jiang W, Luo Z, et al. The Effect of Postoperative Fluid Balance on the Occurrence and Progression of Acute Kidney Injury After Cardiac Surgery. *J Cardiothorac Vasc Anesth.* 2021 Sep 1;35:2700–6.
 24. Zinter MS, Spicer AC, Liu KD, Alkhouli MF, Brakeman PR, Calfee CS, et al. Positive Cumulative Fluid Balance is Associated with Mortality in Pediatric ARDS in the Setting of Acute Kidney Injury. *Pediatr Crit Care Med.* 2020;20:323–31.
 25. Nowicki PD, Ndika A, Kempainen J, Cassidy J, Forness M, Satish S, et al. Measurement of Intraoperative Blood Loss in Pediatric Orthopaedic Patients: Evaluation of a New Method. *J Am Acad Orthop Surg Glob Res Rev.* 2018;2.
 26. Gerdessen L, Meybohm P, Choorapoikayil S, Herrmann E, Taeuber I, Neef V, et al. Comparison of common perioperative blood loss estimation techniques: a systematic review and meta-analysis. *J Clin Monit Comput.* 2021;35:245–58.
 27. Davenport HT, Barr MN. Blood Loss During Pediatric Operations. *Can Med Assoc J.* 1963;89:1309–13.
 28. Manikandan D, Musarrat F, Preetham AP, Anjali R. Measurement of Blood Loss during Adenotonsillectomy in Children and Factors Affecting It. *Case Reports Clin Med.* 2015;04:151–6.
 29. Eipe N, Ponniah M. Perioperative Blood Loss Assessment-How Accurate? *Indian J Anaesth.* 2006;50:35–8.
 30. Xu S, Meng F qi, Guo C, Liang Y, Zhu Z qi, Liu H ying. Modified Hidden Blood Loss Based on Drainage in Posterior Surgery on Lumbar Stenosis Syndrome with Rheumatoid Arthritis. *Orthop Surg.* 2021;13:2263–70.
 31. O'Connor ME, Prowle JR. Fluid Overload. Vol. 31, *Critical Care Clinics.* W.B. Saunders; 2015. p. 803–21.
 32. Kang D, Yoo KY. Fluid management in perioperative and critically ill patients. *Acute Crit Care.* 2019;34:235–45.
 33. Sutawan IBR, Wati DK, Suparyatha IBG. Association of fluid overload with

- mortality in pediatric intensive care unit. *Crit Care Shock*. 2016;19:8–13.
34. Smart L, Hughes D. The Effects of Resuscitative Fluid Therapy on the Endothelial Surface Layer. *Front Vet Sci*. 2021;8:1–14.
 35. Becker BF, Chappell D, Bruegger D, Annecke T, Jacob M. Therapeutic strategies targeting the endothelial glycocalyx: Acute deficits, but great potential. *Cardiovasc Res*. 2010;87:300–10.
 36. Zeng Y. Endothelial glycocalyx as a critical signalling platform integrating the extracellular haemodynamic forces and chemical signalling. *J Cell Mol Med*. 2017;21:1457–62.
 37. Czarnowski D. Syndecans in cancer: A review of function, expression, prognostic value, and therapeutic significance. *Cancer Treat Res Commun*. 2021;27:100312.
 38. Reitsma S, Slaaf DW, Vink H, Van Zandvoort MAMJ, Oude Egbrink MGA. The endothelial glycocalyx: Composition, functions, and visualization. *Pflugers Arch Eur J Physiol*. 2007;454:345–59.
 39. Chappell D, Jacob M, Becker BF, Hofmann-Kiefer K, Conzen P, Rehm M. Expedition glykokalyx: Ein neu entdecktes “Great Barrier Reef.” *Anaesthesist*. 2008;57:959–69.
 40. Reitsma S, Slaaf DW, Vink H, Van Zandvoort MAMJ, Oude Egbrink MGA. The endothelial glycocalyx: Composition, functions, and visualization. Vol. 454, *Pflugers Archiv European Journal of Physiology*. 2007. p. 345–59.
 41. Hartawan NB, Riandra NPIK. Correlation of syndecan-1 level and fluid overload in children with sepsis: A cross-sectional study. *Bali J Anesthesiol*. 2022;6:221–4.
 42. Becker BF, Chappell D, Bruegger D, Annecke T, Jacob M. Therapeutic strategies targeting the endothelial glycocalyx: Acute deficits, but great potential. Vol. 87, *Cardiovascular Research*. Oxford University Press; 2010. p. 300–10.
 43. Ostrowski SR, Haase N, Müller RB, Møller MH, Pott FC, Perner A, et al. Association between biomarkers of endothelial injury and hypocoagulability in patients with severe sepsis: A prospective study. *Crit Care*. 2015 Apr 24;19.
 44. Pudjiadi AH, Saidah F, Alatas FS. Correlation between syndecan-1 level and PELOD-2 score and mortality in pediatric sepsis. *Rev Bras Ter intensiva*. 2022;33:549–56.
 45. De Melo Bezerra Cavalcante CT, Castelo Branco KM, Pinto Júnior VC, Meneses GC, De Oliveira Neves FM, De Souza NMG, et al. Syndecan-1 improves severe acute kidney injury prediction after pediatric cardiac surgery. *J Thorac Cardiovasc Surg*. 2016;152:178-186.e2.
 46. Saragih RAC, Pudjiadi AH, Tambunan T, Satari HI, Aulia D, Bardosono S, et al. Correlation between urinary albumin to creatinine ratio and systemic glycocalyx degradation in pediatric sepsis. *Med J Indones*. 2018 Sep 1;27:194–200.
 47. Bruegger D, Jacob M, Rehm M, Loetsch M, Welsch U, Conzen P, et al. Atrial natriuretic peptide induces shedding of endothelial glycocalyx in coronary vascular bed of guinea pig hearts. *Am J Physiol Hear Circ Physiol*. 2005;289:1993–9.
 48. Jacob M, Saller T, Chappell D, Rehm M, Welsch U, Becker BF.

- Physiological levels of A-, B- and C-type natriuretic peptide shed the endothelial glycocalyx and enhance vascular permeability. *Basic Res Cardiol.* 2013 May 1;108.
49. Belavić M, Sotošek Tokmadžić V, Fišić E, Brozović Krijan A, Strikić N, Lončarić Katušin M, et al. The effect of various doses of infusion solutions on the endothelial glycocalyx layer in laparoscopic cholecystectomy patients. *Minerva Anesthesiol.* 2018;84:1032–43.
 50. Abcam. ab46506 Human Syndecan-1 ELISA Kit (CD138). Vol. 1. Amerika Serikat; 2024.
 51. Dewi R, Fatimatuzzuhroh. Profil Pasien Sakit Kritis yang Dirawat di PICU RSCM berdasarkan sistem skoring PELOD -2. *Sari Pediatr.* 2019;21:37–43.
 52. Zahrah A. Gambaran Pemakaian Ventilator pada Pasien Anak di PICU RSUP HAM Tahun 2016-2017. Universitas Sumatera Utara; 2018.
 53. Yöntem A, Aydın Y, Horoz ÖÖ, Yıldızdaş D, Ekinci F, Kılıç ŞS. Postoperative Intensive Care Requirements of Pediatric Surgery Patients. *Turkish J Pediatr Emerg Intensive Care Med.* 2024;120–5.
 54. Da Silva PSL, De Aguiar VE, Machado Fonseca MC. Risk factors and outcomes of unplanned PICU postoperative admissions: A nested case-control study. *Pediatr Crit Care Med.* 2013;14:420–8.
 55. Lim MJ, Sim MS, Pan S, Alejos J, Federman M. Early Postoperative Volume Overload is a Predictor of 1-Year Post-Transplant Mortality in Pediatric Heart Transplant Recipients. *Pediatr Cardiol.* 2023;44:1014–22.
 56. Hassinger AB, Wald EL, Goodman DM. Early postoperative fluid overload precedes acute kidney injury and is associated with higher morbidity in pediatric cardiac surgery patients. *Pediatr Crit Care Med.* 2014;15:131–8.
 57. Castañuela-Sánchez V, Hernández-Suárez A, García-Benítez L, Díaz-García L, Martínez-Jasso G, Macedo-Quenot AP. Fluid overload as a predictor of morbidity and mortality in pediatric patients following congenital heart surgery. *Bol Med Hosp Infant Mex.* 2022;79:187–92.
 58. Seguin J, Albright B, Vertullo L, Lai P, Dancea A, Bernier PL, et al. Extent, risk factors, and outcome of Fluid overload after pediatric heart surgery. *Crit Care Med.* 2014;42:2591–9.
 59. Christiano, Jessica; Brocks, Rebecca; Chapin, Catherine A; Lemoine, Caroline; Superina, Riccardo; Sanchez-Pinto LN, Barhight M. Fluid Overload In Pediatric Postoperative Liver Transplant Recipients. *Crit Care Med.* 2022;50:294.
 60. Glatz T, Kulemann B, Marjanovic G, Bregenzer S, Makowiec F, Hoepfner J. Postoperative fluid overload is a risk factor for adverse surgical outcome in patients undergoing esophagectomy for esophageal cancer: a retrospective study in 335 patients. *BMC Surg.* 2017;17:1–10.
 61. Zahra R, Ramlan AAW, Kapuangan C, Rahendra R, Ferdiana KA, Marsaban AHM, et al. Perioperative Fluid Management in Paediatric Liver Transplantation: A Systematic Review. *Turkish J Anaesthesiol Reanim.* 2024;52:83–92.
 62. Zhang S, Ma J, An R, Liu L, Li J, Fang Z, et al. Effect of cumulative fluid balance on acute kidney injury and patient outcomes after orthotopic liver transplantation: A retrospective cohort study. *Nephrology.* 2020;25:700–7.
 63. Zhu ACC, Agarwala A, Bao X. Perioperative Fluid Management in the

- Enhanced Recovery after Surgery (ERAS) Pathway. *Clin Colon Rectal Surg.* 2019;32:114–20.
64. Gomes RA dos S, Azevedo LF, Simões BPC, Detomi LS, Rodrigues KE de S, Rodrigues AT, et al. Fluid overload: clinical outcomes in pediatric intensive care unit. *J Pediatr (Rio J).* 2023;99:241–6.
 65. Çekiç C, Kirci A, Vatansever S, Aslan F, Yilmaz HE, Alper E, et al. Serum syndecan-1 levels and its relationship to disease activity in patients with Crohn's disease. *Gastroenterol Res Pract.* 2015;2015.
 66. Wagner M, Anzinger E, Hey F, Reiter K, Wermelt JZ, Pastor-Villaescusa B, et al. Monitoring of the microcirculation in children undergoing major abdominal and thoracic surgery: A pilot study. *Clin Hemorheol Microcirc.* 2023;83:217–29.
 67. Kim H Bin, Soh S, Kwak YL, Bae JC, Kang SH, Song JW. High preoperative serum syndecan-1, a marker of endothelial glycocalyx degradation, and severe acute kidney injury after valvular heart surgery. *J Clin Med.* 2020;9:1–13.
 68. Kajita Y, Terashima T, Mori H, Islam MM, Irahara T, Tsuda M, et al. A longitudinal change of syndecan-1 predicts risk of acute respiratory distress syndrome and cumulative fluid balance in patients with septic shock: a preliminary study. *J Intensive Care.* 2021;9:1–9.
 69. Lee J, de Louw E, Niemi M, Nelson R, Mark RG, Celi LA, et al. Association between fluid balance and survival in critically ill patients. *J Intern Med.* 2015;277:468–77.

