

DAFTAR PUSTAKA

1. National Clinical Guideline Centre. IV fluids in children: intravenous fluid therapy in children and young people in hospital. London: National Institute for Health and Care Excellence, 2020.2-35
2. Santi M, Lava SAG, Camozzi P, Giannini O, Millani GP, Simonetti GD, et al. The great fluid debate: saline or so-called “balanced” salt solutions?. *Ital. J. Pediatr.* 2015;41:47-52.
3. Martín AMA, Mendoza JAB, Muriel A, Saez I, Fernandez MC, Lorenzo JME, et al. Buffered solutions versus 0,9% saline for resuscitation in critically ill adults and children. *Cochrane Database Syst Rev.* 2019;7:6-13.
4. Huber JL, Berger S, Löllgen RM. Balanced electrolyte solutions or normal saline? Resuscitative fluid administration practice in swiss pediatric acute care. *Pediatr Emerg Care.* 2021;37:812-6.
5. Lehr AR, Rached-d’Astous S, Parker M, McIntyre L, Sampson M, Hamid J, et al. Impact of balanced versus unbalanced fluid resuscitation on clinical outcomes in critically ill children: protocol for a systematic review and meta-analysis. *Syst. Rev.* 2019;8:195-8.
6. Trepachayakorn S, Sakunpunphuk M, Samransamruajkit R. Balanced salt solution versus normal saline in resuscitation of pediatric sepsis: a randomized, controlled trial. *Indian J. Pediatr.* 2021;88:921-4.
7. Emrath ET, Fortenberry JD, Travers C, McCracken CE, Hebbar KB. Resuscitation with balanced fluids is associated with improved survival in pediatric severe sepsis. *Crit Care Med.* 2017;45:1177-83.
8. Mahajan V, Sajan SS, Sharma A, Kaur J. Ringer’s lactate vs normal saline for children with acute diarrhea and severe dehydration: a double blind randomized controlled trial. *Indian Pediatr.* 2012;49:963-8.
9. Kartha GB, Rameshkumar R, Mahadevan S. Randomized double-blind trial of ringer lactate versus normal saline in pediatric acute severe diarrheal dehydration. *J. Pediatr. Gastroenterol. Nutr.* 2017;65:621-6.
10. Soegijanto S, Sari DW, Yamanaka A, Kotaki T, Kameoka M, Konishi E. Awareness of using ringer lactat solution in dengue virus infection cases

could induce severity. *Indonesian Journal of Tropical and Infectious Disease*. 2013;4:35-8

11. Kadafi KT. Terapi Cairan pada Anak. In: Kadafi KT. Resusitasi cairan: memilih cairan yang tepat pada anak. Jakarta: Salemba Medika; 2017.4-16
12. Liu X, Cao H, Tan X, Shi J, Qiao L, Zhang Q, et al. The effect of acetate ringer's solution versus lactate ringer's solution on acid base physiology in infants with biliary atresia. *BMC Pediatr*. 2021;21:585-8.
13. Fikri M. Perbandingan nilai agd, elektrolit dan laktat setelah pemberian ringer asetat malat dengan ringer laktat untuk egdt pasien sepsis [thesis]. Universitas Sumatera Utara; 2017.
14. Rawat N, Sahni N, Yaddanapudi L. Comparison of commercially available balanced salt solution and ringer's lactate on extent of correction of metabolic acidosis in critically ill patients. *Indian J Crit Care Med*. 2020; 24:539-43.
15. Setyaningtyas A. Kadar natrium serum dan standard base pasca rehidrasi dengan terapi standar atau ringer asetat malat pada anak dengan diare dehidrasi sedang [thesis]. Universitas Indonesia; 2015.
16. Nammalwar BR, Sudha E. Composition of body fluids and maintenance fluid therapy. *Indian J. Pract. Pediatr*. 2018;20:5-10.
17. Anderson BJ. Neonatal pharmacology. *Anaesth. Intensive Care*. 2023;24:10-17.
18. 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.
19. Rasouli M. Basic concepts and practical equations on osmolality: Biochemical approach. *Clin Biochem*. 2016;49:936-41.
20. Brinkman JE, Dorius B, Sharma S. Physiology, body fluids. Florida: StatPearls Publishing. 2021.27-32.
21. Nammalwar BR, Sudha E. Composition of body fluids and maintenance fluid therapy. *Indian J. Pract. Pediatr*. 2018;20:5-10.
22. Vega RM, Avva U. Pediatric dehydration. Florida: StatPearls Publishing. 2021.8-19

23. Nteziyaremye J, Paasi G, Burgoine K, Balyejjusa JS, Tegu C, Olupot P. Perspectives on aetiology, pathophysiology and management of shock in African children. *Afr J Emerg Med.* 2017;7:20-6.
24. Traum AZ, Somers MJG. Parenteral fluid therapy in children. *Curr. Treat. Options Pediatr.* 2020; 6:117-27.
25. Russell L, McLean AS. The ideal fluid. *Curr. Opin. Crit. Care.* 2014;20:360-5.
26. Izidoro EJS, Koliski A. Maintenance fluid therapy in sick children: state of art. *Resid Pediátr.* 2019; 9:347-54.
27. Greenbaum LA. Fluid and electrolyte disorder. In: Kliegman RM, Geme JW, Blum NJ, Shah SS, Tasker RC, Wilson KM, et al. *Nelson textbook of pediatrics.* 21th ed. Philadelphia: Elsevier; 2020. 2040-6.
28. Langer T, Santini A, Scotti E, Regenmortel NV, Malbrain ML, Caironi P. Intravenous balanced solutions: from physiology to clinical evidence. *Anestezjol. Intens. Ter.* 2015;47:78-88.
29. Guidet B, Soni N, Rocca GD, Kozek S, Vallet B, Annane D, et al. A balanced view of balanced solutions. *Crit Care.* 2010;14:325-35.
30. Kushartono H, Setiati TE. Kristaloid dan koloid. In: Pudjiadi AH, Latief A, Budiwardhana N. *Buku ajar pediatri gawat darurat.* Edisi 1. Jakarta: Ikatan Dokter Anak Indonesia; 2011.145-50.
31. Surviving Sepsis Campaign. Fluid and vasoactive-inotrope management algorithm for children. Society of Critical Care Medicine and the European Society of Intensive Care Medicine, 2021.1-2.
32. Kementrian Kesehatan Republik Indonesia. Pedoman nasional pelayanan kedokteran diagnosis tata laksana sepsis pada anak. Indonesia, 2009.33-7.
33. WHO. Buku saku pelayanan kesehatan anak di rumah sakit, 2009.135-7.
34. Canavan A, Arant BS. Diagnosis and management of dehydration in children. *Am Fam Physician.* 2009;80:692-6.
35. Kementrian Kesehatan Republik Indonesia. Pedoman nasional pelayanan kedokteran infeksi dengue anak dan remaja. Indonesia, 2021.46-51.
36. Balamuth F, Kittick M, McBride P, Woodford AL, Vestal N, Casper TC, et al. Pragmatic pediatric trial of balanced versus normal saline fluid in sepsis:

randomized controlled trial pilot feasibility study. *Acad Emerg Med.* 2019;26:1346-56.

37. Neto AS, Loeches IM, Klanderman RB, Silva RF, Abreu MG, Pelosi P, et al. Balanced versus isotonic saline resuscitation-a systematic review and meta-analysis of randomized controlled trials in operation rooms and intensive care units. *Ann Transl Med.* 2017;5:323-6.
38. Williams V, Jayashree M, Nallasamy K, Dayal D, Rawat A. 0,9% saline versus Plasma-Lyte as initial fluid in children with diabetic ketoacidosis (SPinK trial): a double-blind randomized controlled trial. *Crit Care.* 2020;24:1-10.
39. Shariffuddin, Bathumana A, Adeline C, Chinna K, Lucy C. A comparison of sterofundin and ringer's lactate on intraoperative acid base and electrolytes status in children: a randomized controlled trial. *Anaesth Critic Care Med J.* 2018;3:1-5.
40. Pfortmueller C, Fleischmann E. Acetate-buffered crystalloid fluids: current knowledge, a systematic review. *J Crit Care.* 2016;35:96-104.
41. Zadak Z, Hyspler R, Hronek M, Ticha A. The energetic and metabolic effect of ringerfundin (b. braun) infusion and comparison with plasma-lyte (baxter) in healthy volunteers. *Acta Medica.* 2010;53:131-7.
42. Aditianingsih D, Djaja AS, George YWH. The effect of balanced electrolyte solution versus normal saline in the prevention of hyperchloremic metabolic acidosis in diabetic ketoacidosis patients: a randomized controlled trial. *Med J Indones.* 2017;26:134-40.
43. Curran JD, Major P, Tang K, Bagshaw SM, Dionne JC, Menon K, et al. Comparison of balanced crystalloid solutions: a systematic review and meta-analysis of randomized controlled trials. *Crit Care Explor.* 2021;3:398-403.
44. Bus M. Perbedaan perubahan strong ion difference plasma setelah pemberian larutan ringer asetat malat dibanding ringer laktat pada pasien sectio caesaria dengan anestesi spinal [thesis]. Universitas Sumatera Utara; 2015.
45. Galas F, Hajjar L, Simoes C, Vieira S, Filho RK, Auler J. Effects of ringer's lactate or ringerfundin resuscitation on the acid-base status and serum electrolytes in septic oncologic patients. *Crit Care.* 2009;13:447-50.

46. Uvizl R, Bohanes T, Urbanek K, Szkorupa M, Bravska LD, Zapletalova J, et al. Acid-based disturbances due to perioperative fluid therapy with slightly alkalized and acid-based neutral balanced crystalloids: a comparative study. *Signa Vitae*. 2017;13:65-9.
47. Disma N, Mameli L, Pistorio A, Davidson A, Barabino P, Locatelli BG, et al. A novel balanced isotonic sodium solution vs normal saline during major surgery in children up to 36 months: a multicenter RCT. *Pediatr Anesth*. 2014;24:980-6.
48. Hassan HM, Hasbulla NA, Ali S, Isa R. Ringer's lactate versus sterofundin in paediatric surgical patients: the acid base and electrolytes assessment. *Open J. Anesthesiol*. 2018;6:33-9.
49. de Souza DC, Machado FR. Epidemiology of Pediatric Septic Shock. *J Pediatr Intensive Care*. 2018;8:3-10.
50. Abdallah EAA, Mansour HH, El-Shabrawi M, Ishak SKI, Abd-Elmawgood Kebesy MM, Moawad EMI. The prevalence, characteristics, and outcome of severe sepsis at three pediatric intensive care units in a limited-resource setting: a prospective cohort study. *Egypt Pediatr Assoc Gaz*. 2025;73:2-12.
51. Khan YR, Kasana SA, Din AMU, Jan M, Mehraj J. Clinical profile, cardiac involvement and outcome of children admitted with sepsis in pediatric intensive care unit at GB Pant children hospital Srinagar. *Int J Contemp Pediatr*. 2023;10:902-7.
52. Weiss SL, Balamuth F. Fluid resuscitation in children - better to be "normal" or "balanced"? *Pediatr Crit Care Med*. 2022;23:222-4.
53. More Y, Pandey M, Kumar N. Comparison of 0,9% saline vs ringer's lactate as resuscitation and maintenance fluid in critically ill children: a single-blinded randomized comparative trial. *J Pediatr Crit Care*. 2025;12:114-9.
54. Florez ID, Sierra J, Pérez-Gaxiola G. Balanced crystalloid solutions versus 0,9% saline for treating acute diarrhoea and severe dehydration in children. *Cochrane Database Syst Rev*. 2023;5:30-5.
55. Vijendra B, Bertol AB, Guedes de Almeida M, Gil de Freitas PHA, Salomão Simão ÁM, de Faria BL. Balanced crystalloid versus saline for resuscitation

in pediatric septic shock: a systematic review and meta-analysis. BMC Pediatr. 2025;25:81-90.

56. Scioscia A, Horvat C, Moritz ML, Fuhrman D. Balanced crystalloids versus normal saline in children with critical asthma. Children (Basel). 2022;9:1480- 6.
57. Vandana A, Kavitha M, Mittal K; Gehlawat VK. Plasmalyte versus normal saline as resuscitation fluid in children: A randomized controlled trial. J Pediatr Crit Care.2021;8:134-8.
58. Keitel J, Hussmann B, Lendemans S, de Groot H, Rohrig R. Comparison of malated Ringer's with two other balanced crystalloid solutions in resuscitation of both severe and moderate hemorrhagic shock in rats. Biomed Res Int. 2015;15:1503-9.
59. Hofmann-Kiefer KF, Chappell D, Kammerer T, Jacob M, Paptistella M, Conzen P, et al. Influence of an acetate- and a lactate-based balanced infusion solution on acid base physiology and hemodynamics: an observational pilot study. Eur J Med Res. 2012;17:1-8.

