

Fluid and Electrolyte Therapy in Infants and Children

Melissa Chan

Paul Enarson

REFERENCES

1. Jain A: Body fluid composition. *Pediatr Rev* 36: 141, 2015. [PMID: 25834218]
2. Du Bois EF: The basal metabolism in fever. *JAMA* 77: 352, 1921.
3. Gremse DA: Effectiveness of nasogastric rehydration in hospitalized children with acute diarrhea. *J Pediatr Gastroenterol Nutr* 21: 145, 1995. [PMID: 7472899]
4. Power KS: Dehydration: Isonatremic, hyponatremic, and hypernatremic recognition and management. *Pediatr Rev* 36: 274, 2015. [PMID: 26133303]
5. Niescierenko M, Bachur R: Advances in pediatric dehydration therapy. *Curr Opin Pediatr* 25: 304, 2013. [PMID: 23615174]
6. Nager AL, Wang VJ: Comparison of nasogastric and intravenous methods of rehydration in pediatric patients with acute dehydration. *Pediatrics* 109: 566, 2002. [PMID: 11927697]
7. Freedman SB, Geary DF: Bolus fluid therapy and sodium homeostasis in paediatric gastroenteritis. *J Paediatr Child Health* 49: 215, 2013. [PMID: 23438262]
8. Simpson JN, Teach SJ: Pediatric rapid fluid resuscitation. *Curr Opin Pediatr* 23: 286, 2011. [PMID: 21508842]
9. Kleinman ME, Chameides L, Schexnayder SM, et al: Part 14: pediatric advanced life support: 2010 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. *Circulation* 122: S876, 2010. [PMID: 20956230]
10. Toaimah FHS, Mohammad HMF: Rapid intravenous rehydration therapy in children with acute gastroenteritis a systematic review. *Pediatr Emerg Care* 32: 131, 2016. [PMID: 26835574]
11. Maitland K, Kiguli S, Opoka RO, et al: Mortality after fluid bolus in African children with severe infection. *N Engl J Med* 364: 2483, 2011. [PMID: 21615299]
12. Janet S, Molina JC, Marañón R, García-Ros M: Effects of rapid intravenous rehydration in children with mild-to-moderate dehydration. *Pediatr Emerg Care* 31: 564, 2015. [PMID: 25834956]
13. Levy JA, Bachur RG, Monuteaux MC, et al: Intravenous dextrose for children with gastroenteritis and dehydration: a double-blind randomized controlled trial. *Ann Emerg Med* 61: 281, 2013. [PMID: 22959318]
14. Wang J, Xu E, Xiao Y: Isotonic versus hypotonic maintenance IV fluids in hospitalized children: a meta-analysis. *Pediatrics* 133: 105, 2014. [PMID: 24379232]
15. McNab S, Duke T, South M, et al: 140 mmol/L of sodium versus 77 mmol/L of sodium in maintenance intravenous fluid therapy for children in hospital (PIMS): a randomized controlled double-blind trial. *Lancet* 385: 1190, 2015. [PMID: 25472864]
16. Neilson J, O'Neill F, Dawoud D, et al: Intravenous fluids in children and young people: summary of NICE guidance. *BMJ* 351: h6388, 2015. [PMID: 26662119]
17. O'Brien F, Walker IA: Fluid homeostasis in the neonate. *Pediatr Anesth* 24: 49, 2014. [PMID: 24299660]
18. Braun MM, Barstow CH, Pyzocha NJ: Diagnosis and management of sodium disorders: hyponatremia and hypernatremia. *Am Fam Physician* 91: 299, 2015. [PMID: 25822386]
19. Ranger AM, Chaudhary N, Avery M, et al: Central pontine and extrapontine myelinolysis in children: a review of 76 patients. *J Child Neurol* 27: 1027, 2012. [PMID: 22647485]
20. Assadi F: Hyponatremia: a problem-solving approach to clinical cases. *J Nephrol* 25: 473, 2012. [PMID: 22307436]
21. Goff DA, Higinio V: Hypernatremia. *Pediatr Rev* 30: 412, 2009. [PMID: 19797486]
22. Daly K, Farrington E: Hypokalemia and hyperkalemia in infants and children: pathophysiology and treatment. *J Pediatr Health Care* 27: 486, 2013. [PMID: 24139581]
23. Shaw NJ: A practical approach to hypocalcaemia in children. *Endocr Dev* 28: 84, 2015. [PMID: 26138837]
24. Davies JH, Shaw NJ: Investigation and management of hypercalcaemia in children. *Arch Dis Child* 97: 533, 2012. [PMID: 22447996]