

# Anemia – Recognition and Management

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1. Browning RM, Trentino K, Nathan EA, Hashemi N for the Western Australian Patient Blood Management Program. Preoperative anaemia is common in patients undergoing major gynaecological surgery and is associated with a fivefold increased risk of transfusion. *Aust N Z J Obstet Gynaecol* 2012;52:455-9.
2. Cherian JJ, Kapadia BH, Issa K, et al. Preoperative blood management strategies for total hip arthroplasty. *Surg Technol Int* 2013;23:261-6.
3. Engoren M, Schwann TA, Habib RH, et al. The independent effects of anemia and transfusion on mortality after coronary artery bypass. *Ann Thorac Surg* 2014;97:514-20.
4. Folkert VW, Meyer TW, Hostetter TH. Anemia therapy in ESRD: Time to move on. *Clin J Am Soc Nephrol* 2010;5:1163-4.
5. Jans Ø, Jørgensen C, Kehlet H, Johansson PI for the Lundbeck Foundation Centre for Fast-track Hip and Knee Replacement Collaborative Group. Role of preoperative anemia for risk of transfusion and postoperative morbidity in fast-track hip and knee arthroplasty. *Transfusion* 2014;54:717-26.
6. Janz TG, Johnson RL, Rubenstein SD. Anemia in the emergency department: Evaluation and treatment. *Emerg Med Pract* 2013;15:1-16.
7. Juul S. Erythropoiesis and the approach to anemia in premature infants. *J Matern Fetal Neonatal Med* 2012;25(Suppl 5):97-9.
8. Kapadia BH, Banerjee S, Issa K, et al. Preoperative blood management strategies for total knee arthroplasty. *J Knee Surg* 2013;26:373-7.
9. Leichtle SW, Mouawad NJ, Lampman R, et al. Does preoperative anemia adversely affect colon and rectal surgery outcomes? *J Am Coll Surg* 2011;212:187-94.
10. Loor G, Rajeswaran J, Li L, et al. The least of 3 evils: Exposure to red blood cell transfusion, anemia, or both? *J Thorac Cardiovasc Surg* 2013;146:1480-7.e6.
11. Partridge J, Harari D, Gossage J, Dhesi J. Anaemia in the older surgical patient: A review of prevalence, causes, implications and management. *J R Soc Med* 2013;106:269-77.
12. Pelavski AD, de Miguel M, Lacasta A, et al. Anaemia and transfusion in nonagenarians undergoing emergency, non-traumatic surgery: A prospective observational study. *Transfus Med* 2013;23:238-44.
13. Qaseem A, Humphrey LL, Fitterman N, et al for the Clinical Guidelines Committee of the American College of Physicians. Treatment of anemia in patients with heart disease: A clinical practice guideline from the American College of Physicians. *Ann Intern Med* 2013;159:770-9.
14. Ranucci M, La Rovere MT, Castelvecchio S, et al. Postoperative anemia and exercise tolerance after cardiac operations in patients without transfusion: What hemoglobin level is acceptable? *Ann Thorac Surg* 2011;92:25-31.
15. Retter A, Wyncoll D, Pearse R, et al for the British Committee for Standards in Haematology. Guidelines on the management of anaemia and red cell transfusion in adult critically ill patients. *Br J Haematol* 2013;160:445-64.

## 12 CITATIONS IN PATIENT BLOOD MANAGEMENT

16. Rosenberg NF, Koht A, Naidech AM. Anemia and transfusion after aneurysmal subarachnoid hemorrhage. *J Neurosurg Anesthesiol* 2013;25:66-74.
17. Sakr Y, Lobo S, Knuepfer S, et al. Anemia and blood transfusion in a surgical intensive care unit. *Crit Care* 2010;14:R92.
18. Sampson TR, Dhar R, Diringer MN. Factors associated with the development of anemia after subarachnoid hemorrhage. *Neurocrit Care* 2010;12:4-9.
19. Shehata N, Forster A, Li L, et al. Does anemia impact hospital readmissions after coronary artery bypass surgery? *Transfusion* 2013;53:1688-97; quiz 1687.
20. Singh R, Shah BL, Frantz ID 3rd. Necrotizing enterocolitis and the role of anemia of prematurity. *Semin Perinatol* 2012;36:277-82.
21. Sloniewsky D. Anemia and transfusion in critically ill pediatric patients: A review of etiology, management, and outcomes. *Crit Care Clin* 2013;29:301-17.
22. Stein J, Bager P, Befrits R, et al. Anaemia management in patients with inflammatory bowel disease: Routine practice across nine European countries. *Eur J Gastroenterol Hepatol* 2013;25:1456-63.
23. Thomas J, Jensen L, Nahirniak S, Gibney RT. Anemia and blood transfusion practices in the critically ill: A prospective cohort review. *Heart Lung* 2010;39:217-25.
24. Thorson CM, Van Haren RM, Ryan ML, et al. Admission hematocrit and transfusion requirements after trauma. *J Am Coll Surg* 2013;216:65-73.
25. Treatment of anemia in patients with heart disease: A clinical practice guideline from the American College of Physicians. *Ann Intern Med* 2013;159:1-32.
26. Utter GH, Shahlaie K, Zwienenberg-Lee M, Muizelaar JP. Anemia in the setting of traumatic brain injury: The arguments for and against liberal transfusion. *J Neurotrauma* 2011;28:155-65.
27. Van der Linden PJ, De Hert SG. Effects of anaemia on the myocardium. *Acta Anaesthesiol Belg* 2010;61:119-22.
28. Vuille-Lessard E, Boudreault D, Girard F, et al. Postoperative anemia does not impede functional outcome and quality of life early after hip and knee arthroplasties. *Transfusion* 2012; 52:261-70.
29. Wallis JP. Disentangling anemia and transfusion. *Transfusion* 2011;51:8-10.
30. Walsh TS, Wyncoll DL, Stanworth SJ. Managing anaemia in critically ill adults. *Br Med J* 2010;341:c4408.

## Use of Iron

1. Aydogan MS, Erdogan MA, Yucel A, et al. Effects of preoperative iron deficiency on transfusion requirements in liver transplantation recipients: A prospective observational study. *Transplant Proc* 2013;45:2277-82.
2. Bisbe E, Moltó L, Arroyo R, et al. Randomized trial comparing ferric carboxymaltose vs oral ferrous glycine sulphate for postoperative anaemia after total knee arthroplasty. *Br J Anaesth* 2014 (in press). PMID: 24780615.

3. Dangsuwan P, Manchana T. Blood transfusion reduction with intravenous iron in gynecologic cancer patients receiving chemotherapy. *Gynecol Oncol* 2010;116:522-5.
4. Goodnough LT. Iron deficiency syndromes and iron-restricted erythropoiesis (CME). *Transfusion* 2012;52:1584-92.
5. Grey DE, Smith V, Finlayson J. Iron studies and red cell transfusion in cardiothoracic and orthopaedic surgical patients: A retrospective audit at a tertiary hospital. *Vox Sang* 2012; 102:150-8.
6. Hetzel D, Strauss W, Bernard K, et al. A Phase III, randomized, open-label trial of ferumoxytol compared with iron sucrose for the treatment of iron deficiency anemia in patients with a history of unsatisfactory oral iron therapy. *Am J Hematol* 2014;89:646-50.
7. Hogan M, Klein AA, Richards T. The impact of anaemia and intravenous iron replacement therapy on outcomes in cardiac surgery. *Eur J Cardiothorac Surg* 2014 (in press). PMID: 24824650.
8. Keeler BD, Krell J, Acheson AG, et al. Is there a role for intravenous iron therapy in patients undergoing colorectal cancer resection? *Expert Rev Anticancer Ther* 2012;12:1407-12.
9. Khanbhai M, Shah M, Cantanhede G, et al. The problem of anaemia in patients with colorectal cancer. *ISRN Hematol* 2014;2014:547914.
10. Liument Bruno GM, Grazzini G. Double bull's eye for post-operative intravenous iron in patient blood management: Better outcome and cost-effective. *Blood Transfus* 2014;12:7-9.
11. Liument Bruno GM, Rafanelli D. Iron therapy: A piece in the puzzle of allogeneic blood saving strategies with a relevant role in patients' blood management. *Blood Transfus* 2012;10:5-7.
12. Mudge DW, Tan KS, Miles R, et al. A randomized controlled trial of intravenous or oral iron for posttransplant anemia in kidney transplantation. *Transplantation* 2012;93:822-6.
13. Muñoz M, García-Erce JA, Cuenca J, et al for the AWGE (Spanish Anaemia Working Group). On the role of iron therapy for reducing allogeneic blood transfusion in orthopaedic surgery. *Blood Transfus* 2012;10:8-22.
14. Muñoz M, Gómez-Ramírez S, Cuenca J, et al. Very-short-term perioperative intravenous iron administration and postoperative outcome in major orthopedic surgery: A pooled analysis of observational data from 2547 patients. *Transfusion* 2014;54:289-99.
15. Muñoz M, Gómez-Ramírez S, Martín-Montañez E, Auerbach M. Perioperative anemia management in colorectal cancer patients: A pragmatic approach. *World J Gastroenterol* 2014; 20:1972-85.
16. Muñoz M, Gómez-Ramírez S, Martín-Montañez E, et al. Cost of post-operative intravenous iron therapy in total lower limb arthroplasty: A retrospective, matched cohort study. *Blood Transfus* 2014;12:40-9.
17. Muñoz M, Gómez-Ramírez S, Martín-Montañez E, et al. Perioperative intravenous iron: An upfront therapy for treating anaemia and reducing transfusion requirements. *Nutr Hosp* 2012;27:1817-36.
18. Pavord S, Myers B, Robinson S, et al for the British Committee for Standards in Haematology. UK guidelines on the management of iron deficiency in pregnancy. *Br J Haematol* 2012; 156:588-600. Erratum in: *Br J Haematol* 2012;158:559.