AUSTRALIAN COMMISSION ON SAFETY AND QUALITY IN HEALTH CARE

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| Government | |
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SA Health

■MH
■LMH

PATIENT BLOOD MANAGEMENT CARE PLAN Surname:

U.R. No:

Given:

D.O.B.:

Sex:

DO NOT HAND WRITE THESE DETAILS EXCEPT WHEN ADHESIVE BARCODE LABELS ARE UNAVAILABLE.

| Surgical Team: Gynaecolog | gy / Orthopaedics | / Gastrointe | estinal / Othe | er (circle) | | | |
|--|--|-------------------------------------|----------------|--------------------|--|----------------------------|--|
| Diagnosis/Planned proced | | | | | N. | | |
| Expected time to surgery: | < 1 week / <1 mo | onth / 1-3 m | | | 12 months / | >12 months | (circle) |
| ☐ Letter to GP requesting screen and management | iron deficiency an | aemia | ☐ Yes ☐ | No | Date: | | - B |
| ☐ Hx of iron deficiency: ☐ Yes ☐ No ☐ Unknown | | Date(s) of D | Date(s) of Dx: | | Past Tx: Oral iron / IM iron / IV (circle) | | |
| ➤ See preoperative Hb ass Module 2) ➤ For IV Iron Infusions, cor ➤ See IV iron prescribing c Iron therapy consumer info | ntact 2F ext. 21352 hecklist for indicati | for booking. ons, contrain | dications and | | | NBAPING | lines: |
| English / Arabic / Greek / | | | | Crgare | ersan / Sim | plified Chine | se |
| | | Ti Ti | reatment Pl | 1 // // A | | Referrals | 5 |
| FBE and Iron Studi | es review | Iron therapy not req (red/ | O al Iron | IV Iron therapy | GP referral to manage IDA/ID | For IV Iron Infusion | Other referrals / Investigations required |
| No anaemia or iron deficie • Hb ≥130 g/L (male) or Hb • Ferritin ≥100 mcg/L | | CE | 4. | | , | | |
| | 0e/g/L £120 g/L (female) | | | | 8. | | |
| in deficiency anaemia Hb <130 g/L (male) or Hb Ferritin <30 mcg/L | | | | | | | |
| □ Possible iron deficiency • Hb <130 g/L (male) or Hb • Ferritin 30-100 mcg/L • CRP raised • TSAT < 20% | | | | | | | |
| Possible anaemia of chr inflammation or other cau • Hb <130 g/L (male) or Hb • Ferritin 30-100 mcg/L or F • CRP normal • TSAT < 20% | se <120 g/L (female) | | | .y. | | | |
| Comments: | | | | . 1 | | | |
| * | | | | | | | |
| | 1., | | | | | | × |
| Date: N | ame: | | Signature | | | Pager/spee | d dial |
| | | | * | | | | lational Patient |

PATIENT BLOOD MANAGEMENT CARE PLAN - MR830.1

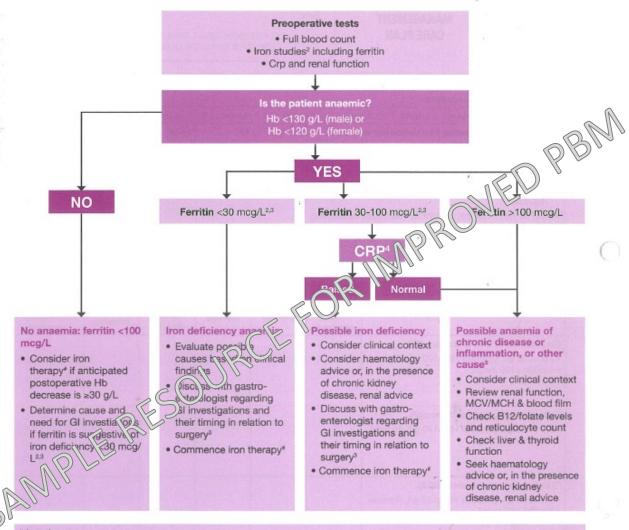
JULY 2016

National Patient
Blood Management
Collaborative

AUSTRALIAN COMMISSION ON SAFETY AND QUALITY IN HEALTH CARE

NBA PREOPERATIVE HAEMOGLOBIN ASSESSMENT AND OPTIMISATION GUIDE

This template is for patients undergoing procedures in which substantial blood loss is antipated such as cardiac surgery, major orthopaedic, vascular and general surgery. Specific details, including reference ranges and therapies, may need adaption for local needs, expertise or patient groups.



Oral iron in divided daily doses. Evaluate response after one month. Provide patient information material.

IV iron if oral iron contraindicated, is not tolerated or effective; and consider if rapid iron repletion is clinically important (e.g. <2 months to non deferrable surgery).

NOTE: 1 mcg/L of ferritin is equivalent to 8=10 mg of storage iron. It will take approximately 165mg of storage iron to reconstitute 10 g/L of Hb in a 70kg adult. If preoperative ferritin is <100 mcg/L, blood loss resulting in a postoperative Hb drop of ≥30 g/L would deplete iron stores. In patients not receiving preoperative iron therapy, if unanticipated blood loss is encountered, 150mg IV iron per 10g/L Hb drop may be given to compensate for bleeding related iron loss (1ml blood contains ~0.5mg elemental iron)

Abbreviations

CRP = C-reative protein

GI = gastrointestinal

Hb = haemoglobin

IV = intravenous

MCV = mean cell/ corpuscular volume (fL)

MCH = mean cell/corpuscular haemoglobin (pg)

Footnotes:

- Ansemia may be multifactorial, especially in the elderly or in those with chronic disease, renal impairment, nutritional deficiencies or malabsorption.
- A serum ferritin level of less than 30 ug/L for an adult is diagnostic of iron deficiency.

 Serum ferritin levels of 30-100 ug/L in an anaemic adult may represent iron deficiency if there is coexisting inflammatory disease.
- In the case of Anaemia in Chronic Kidney Disease, aim for a Ferritin of > 500 Mog/L and Transferrin Saturations of >= 30% (as per KDIGO 2012)
- Seruth ferritin levels greater than or equal to 30 ug/L up to the method-related upper reference limit demonstrates healthy iron stores as long as co-existing inflammatory disease or hepatocellular damage are not present. (Lipschitz, Cook and Finch 1974)
- Patients without a clear physiological explanation for iron deficiency jespecially men and postmenopausal women) should be evaluated by gastroscopy/ colonoscopy to exclude a source of GI blaeding, particularly a maignant lesion. Determine possible causes based on history and examination; initiate iron theraps score for coellac disease; discuss timing of scopes with a gastroenterotique.
- CRP may be normal in the presence of chronic disease and inflammation.

 Consider thalassaemia if MCH or MCV is low and not explained by iron deficiency, or if long standing. Check B12/folate if macrocytic or if there are risk factors for deficiency [e.g. decreased intake or absorption), or if anaemia is unexplained. Consider blood loss or haemolysis if reticulocyte count is increased. Seek haematology advice or, in presence of chronic kidney disease, nephrology advice
 - 9. A raised percentage transferrin saturation in isolation may be the earliest indicator of iron overload.
 - 10. Serum femitin concentrations typically fall in the last 4 weeks of normal pregnancy. This reflects transfer of organic iron from mother to fetus, rather than any change in iron metabolism. However, a femitin concentration around 30 ug/L or less is still considered diagnostic of iron deficiency at any stage of pregnancy. As for non-pregnant individuals, femitin concentrations in the 30-100 ug/L, range could indicate iron deficiency in the presence of co-existing inflammatory disease.

For more information on the diagnosis, investigation and management of iron deficiency anaemia refer to Pasricha SR, Flecknow-Brown SC, Allen KJ et al. Diagnosis and management of iron deficiency anaemia: a clinical update. Med J Aust. 2010, 193(9:525-532

Disclaimer: The information above, developed by consensus, can be used as a guide. Any algorithm should always take into account the patient's history and clinical assessment, and the nature of the proposed surgical procedure.

