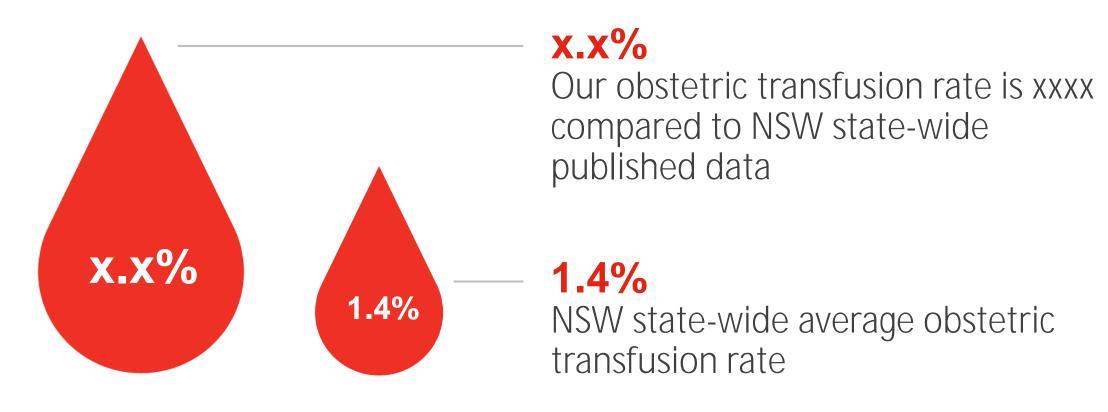
Maternity blood management – Improving identification and management of iron deficiency and anaemia

How to use these slides

- Customise with your health service data
- Present to executive and key stakeholders to gain endorsement to proceed with improvement initiatives
- Add more local information as desired
- Delete slides if not relevant for audience



Transfusion rate



X.X%

Our rate of anaemia at delivery is x.x%

Compared to Hospital ABC (3.6%) and Hospital XYZ (11.5%) post-improvement.

Anaemia at delivery

X.X%

of anaemic women at delivery received a transfusion

X.X%

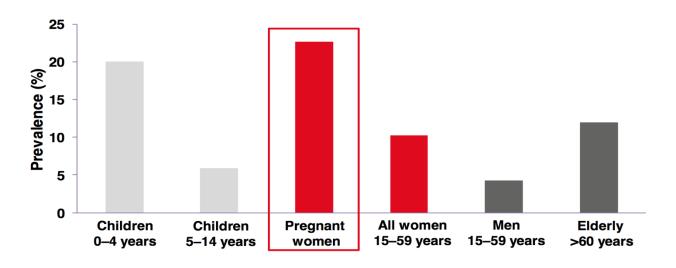
of non-anaemic women at delivery received a transfusion



In 2018, anaemic maternity patients at delivery (≤110 g/L) had a x times higher chance of being transfused.

Risk factors for anaemia

- Pregnancy and breastfeeding are risk factors
- Iron deficiency is the most common cause





Personal impact of iron deficiency



Newborn

Low birth weight, higher risk of fetal death or abnormalities.

Infant

Alteration in brain function, increased risk of infection and death.



Children

Poor exercise tolerance and school performance.



Adult

Poor productivity, cognitive and behavioural problems.



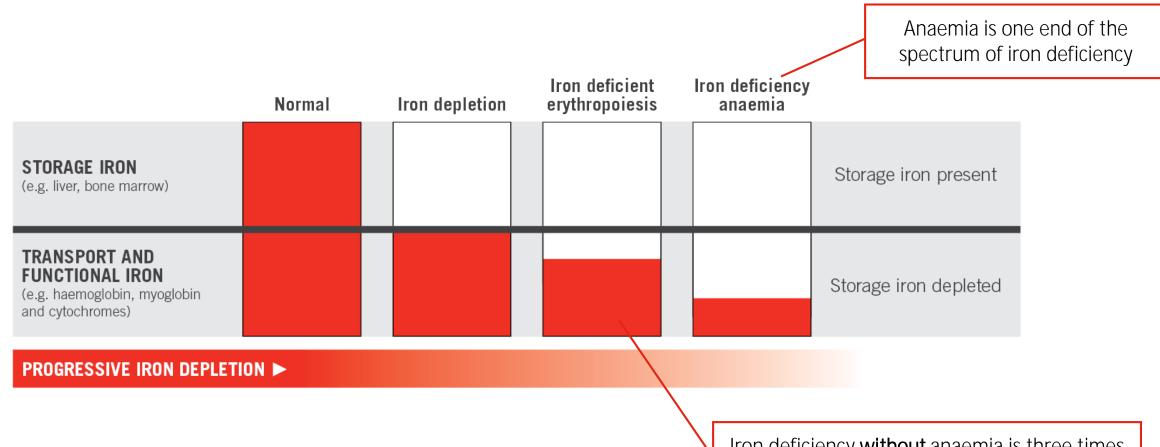
Pregnancy

Higher risk of pre-term delivery, retarded IUG, <= 5x maternal mortality.

Reference: Zhang Y, Jin L, Liu JM, Ye R, Ren A. J Pediatr. Maternal Hemoglobin Concentration during Gestation and Risk of Anemia in Infancy: Secondary Analysis of a Randomized Controlled Trial. 2016.



Spectrum of iron deficiency

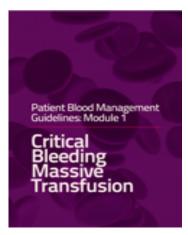


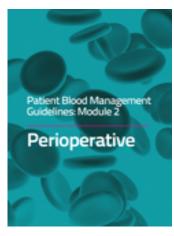
Reference: transfusion.com.au. This graphic was modified with permission from Sarah Cusick PhD, Centers for Disease Control and Protection, 2008.

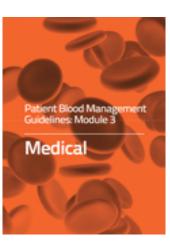
Iron deficiency **without** anaemia is three times as common as iron deficiency anaemia

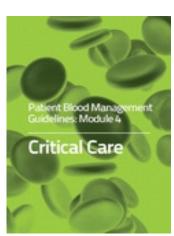


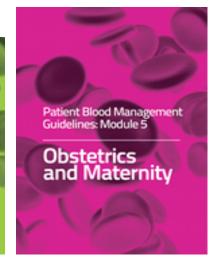
Patient blood management guidelines

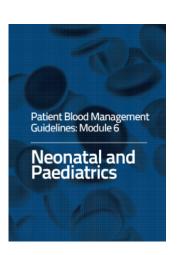












Patient blood management (PBM) obstetrics and maternity

Maximise red cell mass at the time of delivery and reducing reliance on transfusion as salvage therapy to treat blood loss.

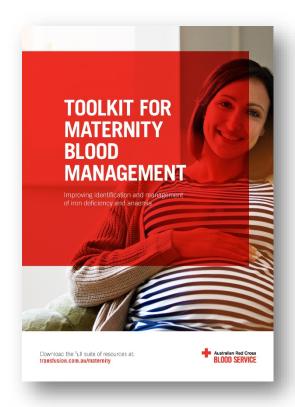
Aim of the pilot

Consider including a **SMART** aim statement i.e. Specific, Measurable, Aspirational, Realistic, Time based.

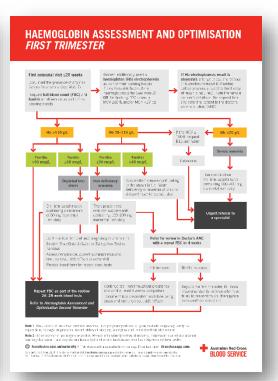
Example aim statement

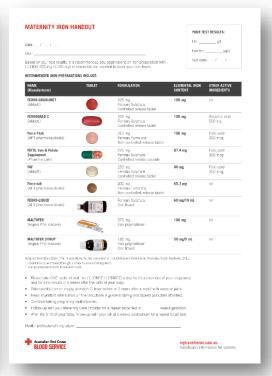
'To optimise antenatal haemoglobin levels and iron stores in 80% of women who have their first visit at \leq 20 weeks and to increase the sue of iron therapy in 80% of women diagnosed with ID booked between 1 September and 31 December 2017'

Implementation tools









Toolkit for Maternity Blood Management Hb Assessment and Optimisation Action Plan

Hb Assessment and Optimisation Flowcharts

Maternity Iron Handout

Definitions

Anaemia

- Hb ≤ 110 g/L (First trimester)
- Hb ≤ 105 g/L (Second trimester)
- Hb ≤ 110 g/L (Third trimester)

Iron deficiency (depleted iron stores)

– Ferritin ≤ 30 mcg/L

Iron deficiency anaemia

Low ferritin and low Hb

