



Australian Red Cross  
**Lifeblood**

# Haemoglobin Assessment and Optimisation in Maternity

A guide for health professionals  
involved in antenatal care



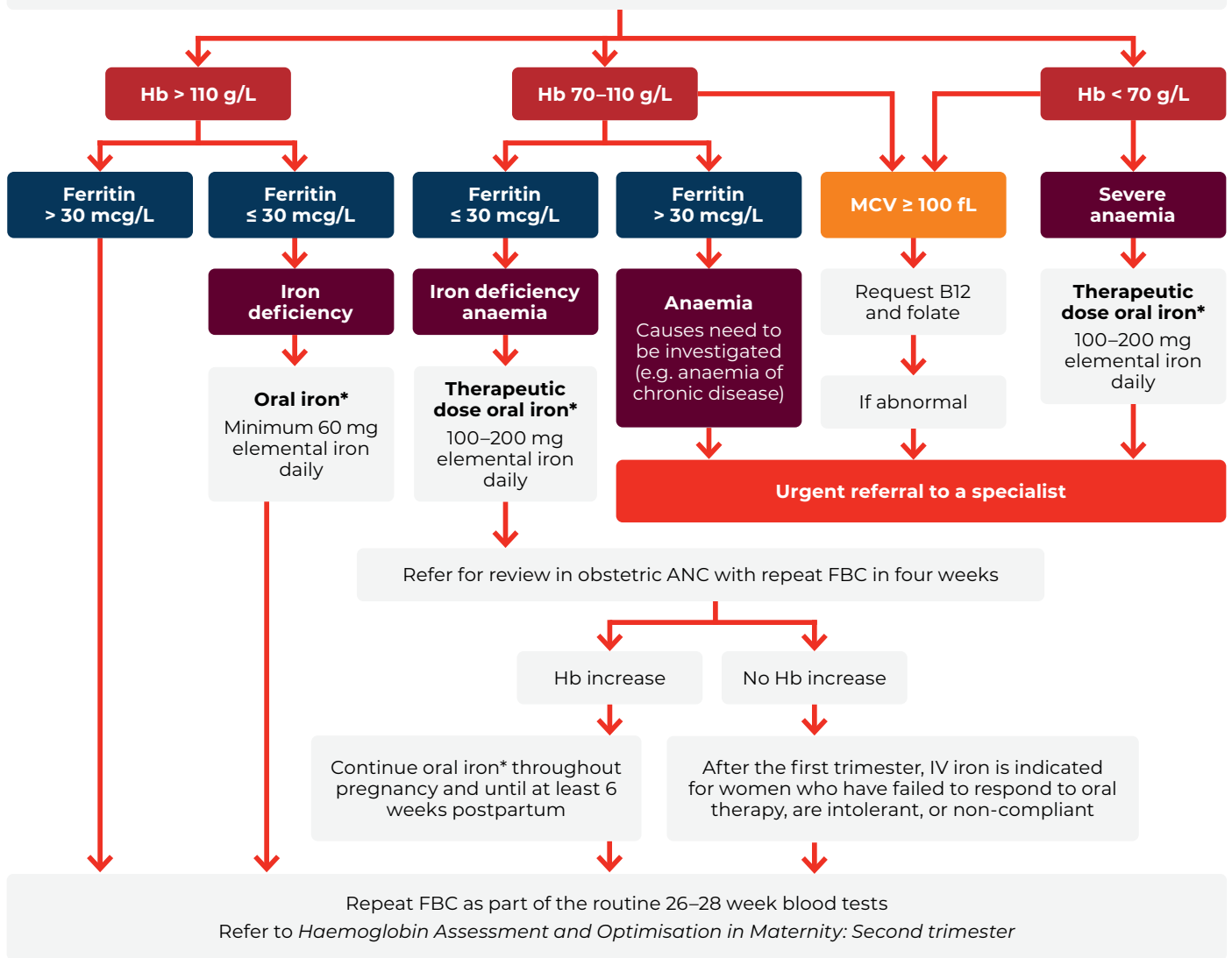
# First trimester

### First antenatal visit ≤ 20 weeks (booking visit)

- Document risk factors for anaemia: Previous anaemia, inter-pregnancy interval < 1 year, multiple pregnancy, parity ≥ 3, vegetarian/vegan, teenage pregnancy, recent history of bleeding, Aboriginal and Torres Strait Islander.
- **Important:** Request full blood count (FBC) and ferritin on all women if recent bloods not available.
- Perform haemoglobinopathy screening if risk factors (women with a family history of anaemia, thalassaemia or other abnormal haemoglobin variant; and any woman from a high-risk ethnic background who has not previously been tested) **or** the booking FBC shows a MCV ≤ 80 fL and/or MCH < 27 pg.

### Second antenatal visit (follow-up visit)

- If a haemoglobinopathy is detected, perform partner screening as soon as possible. Add the woman's details to the request form and refer her to the obstetric antenatal clinic (ANC).
- Review booking blood results and use the flowchart to determine if iron is required.\*



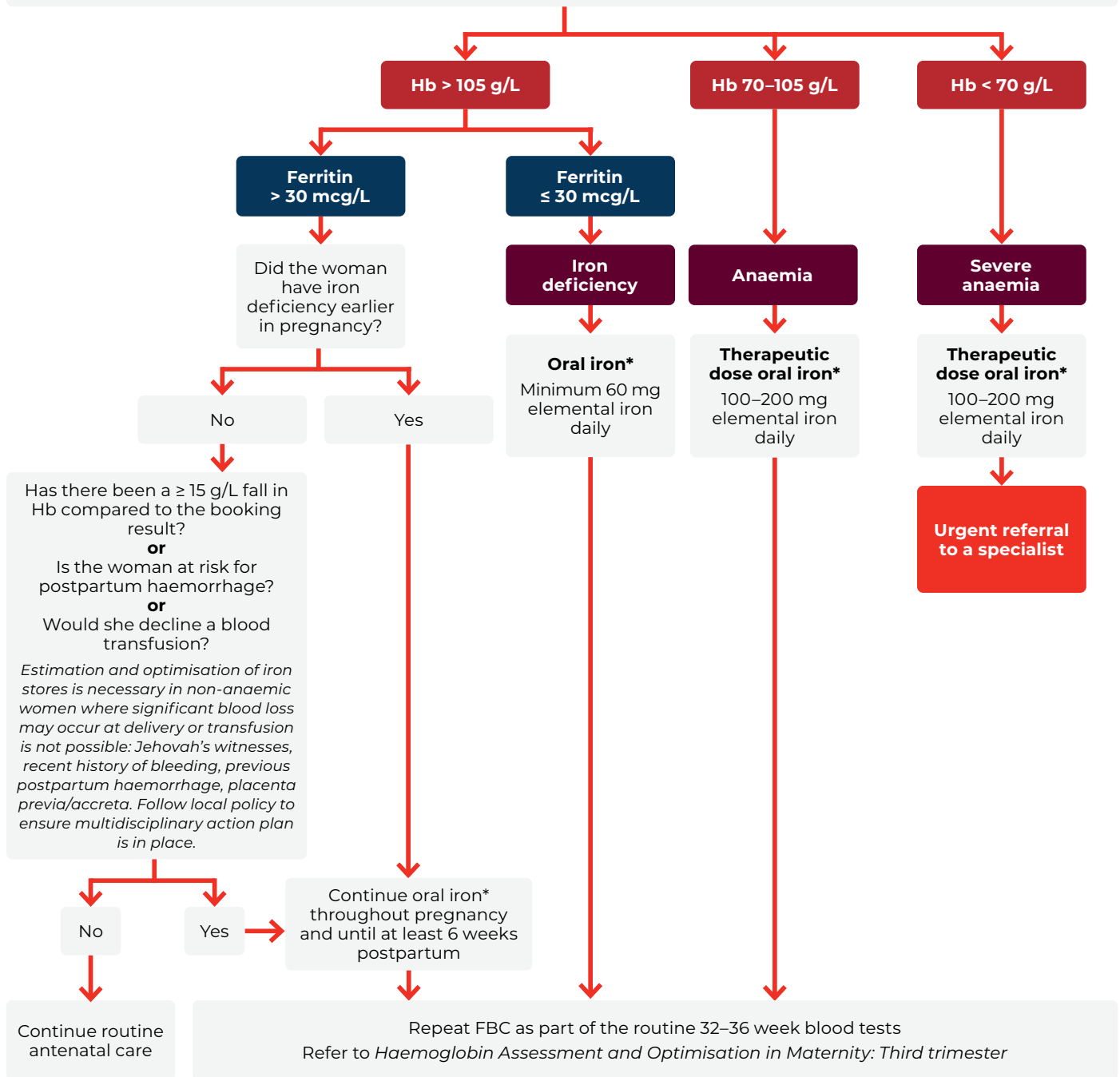
### \*If iron therapy is required:

- Continue iron rich diet and pregnancy multivitamins.
- Provide the woman with the following handouts: Lifeblood's *Oral Iron Choices for Maternity* and Bloodsafe's *A Guide to Taking Iron Tablets*.
- Document iron preparation and dose in the patient's record.
- Assess adherence (dose and timing) and ask about side effects at every visit. Refer to Bloodsafe's *A Guide to Taking Iron Tablets* to address side effects.

# Second trimester

## Second trimester visit (26–28 weeks)

Request full blood count (FBC) and ferritin on all women.



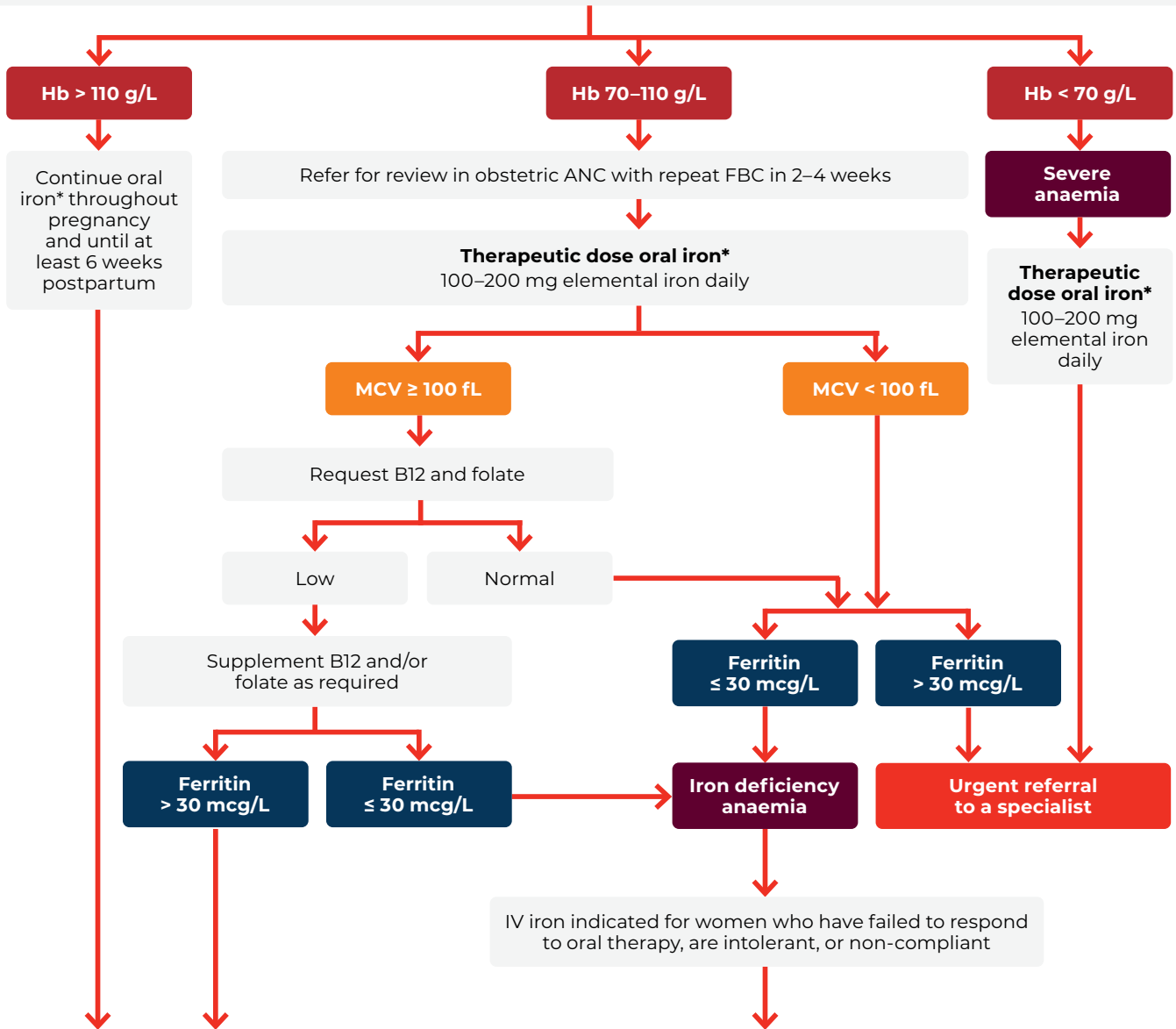
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# Third trimester

## Third trimester visit (32–36 weeks)

Review repeat full blood count (FBC) and ferritin results to assess response to oral iron\*



Provide form for 6 weeks postpartum blood tests (FBC and iron studies; B12 and folate if levels were low). Document the request in the hospital discharge summary. Tests recommended to be performed prior to the 6 week GP visit. GP to receive the result. Refer to *Haemoglobin Assessment and Optimisation in Maternity: Intrapartum*

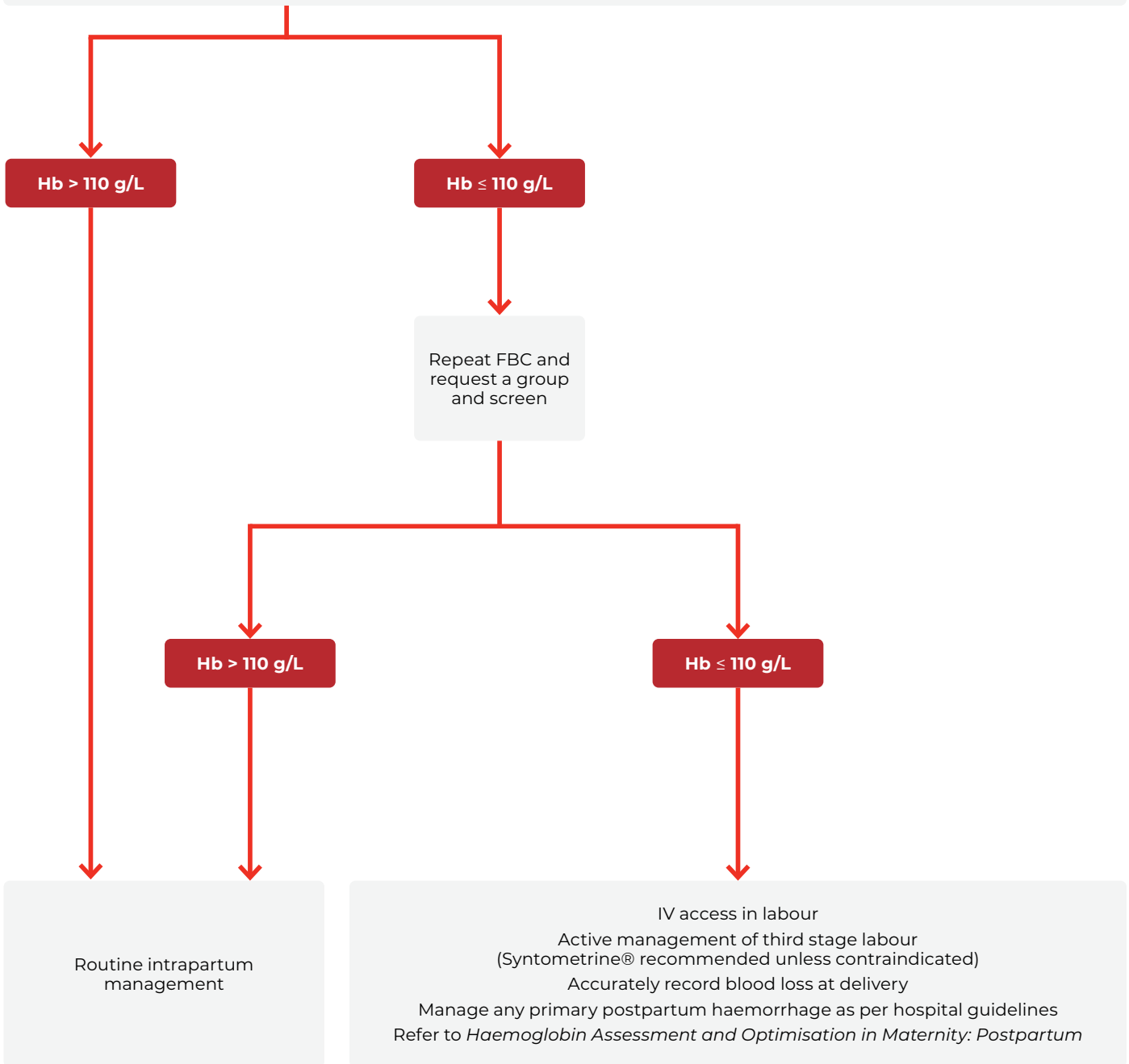
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# Intrapartum

## Admission in labour

Review haemoglobin (Hb) result from the last available antenatal full blood count (FBC) for all women on admission.  
Note: Women with anaemia at the time of delivery may require additional precautions.



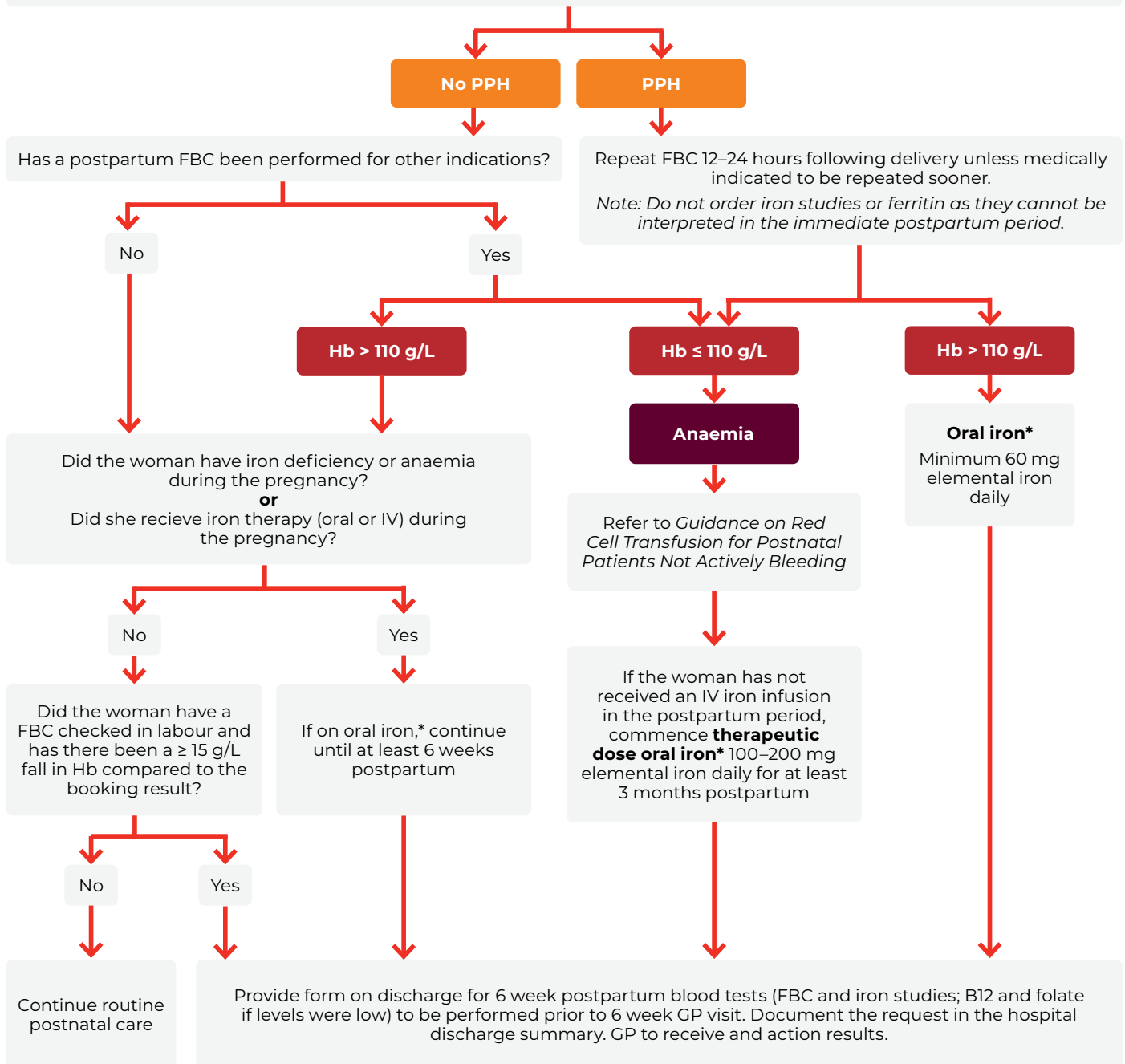
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# Postpartum

## Did the woman have a primary postpartum haemorrhage (PPH)?

Traditionally defined as blood loss within 24 hrs of birth of  $\geq 500$  mL after vaginal birth or  $\geq 1000$  mL after caesarean section.



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