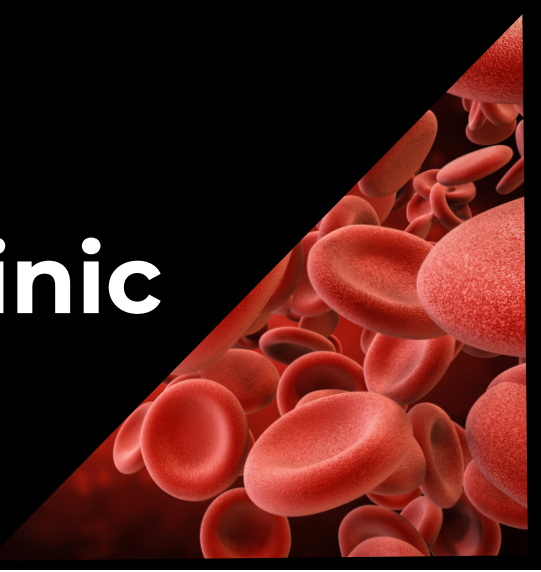


Pre-operative anaemia optimisation: Service evaluation in a multidisciplinary adult pre-operative assessment clinic

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Background

Pre-operative anaemia is **common** and associated with **adverse surgical outcomes**. Detection and management is a key pillar of patient blood management to **prevent avoidable blood transfusions**.

Method

Local pre-operative anaemia optimisation was evaluated in two phases:

1) Analysis of all referrals to pharmacist for pre-operative anaemia review over 3 months to **evaluate management of pre-operative anaemia**

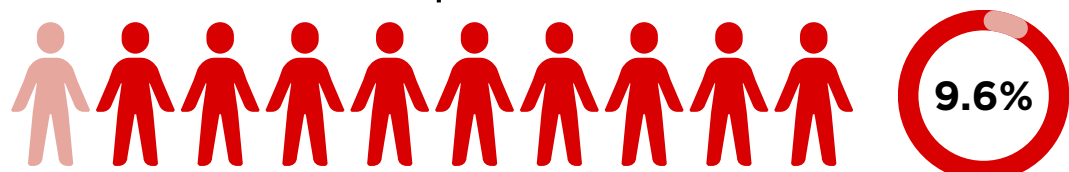
2) Retrospective review of patients from colorectal, gynaecology & orthopaedic theatre activity over 2 months to **evaluate detection of pre-operative anaemia**.

Anaemia defined as:

- Haemoglobin **<130g/L** for all male patients & female patients awaiting major surgery
- Haemoglobin **<115g/L** for female patients awaiting non-major surgery

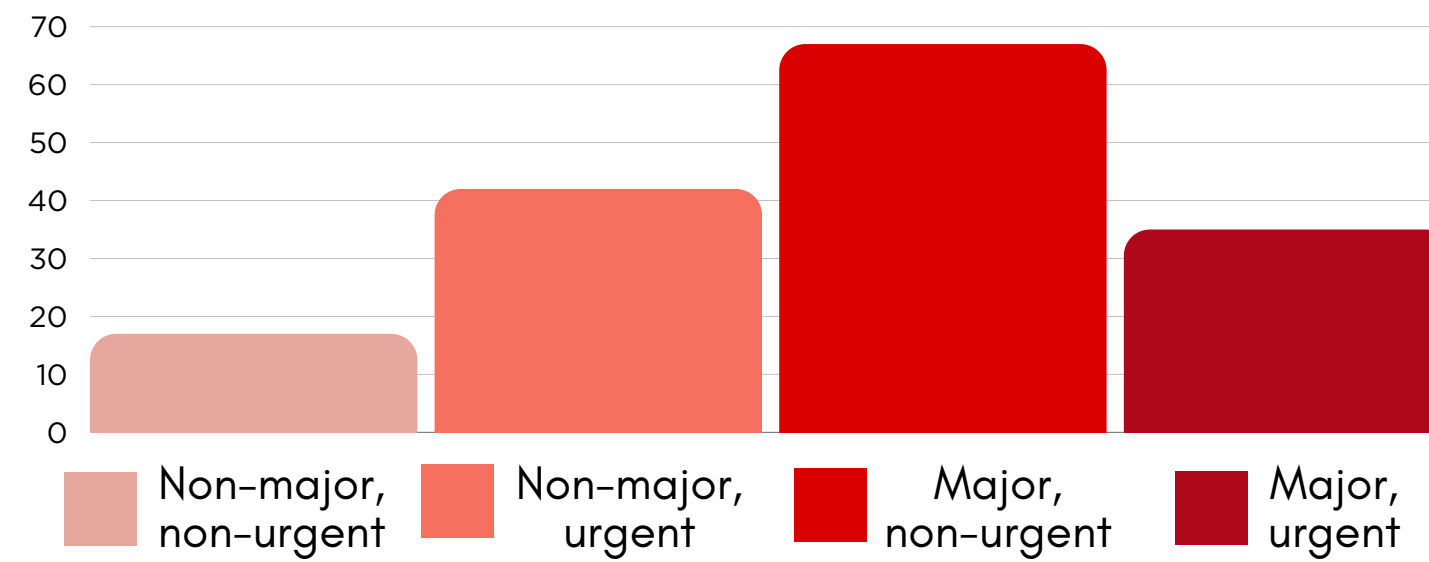
Results

161 patients were referred for pre-op anaemia review (Sept-Nov 2023) out of total 1667 who attended for nurse pre-assessment:



Average of 54 referrals/month.

Referrals by type of surgery:



Most referrals came from POA nurses. The service also facilitates anaemia optimisation for patients pre-assessed at other sites:

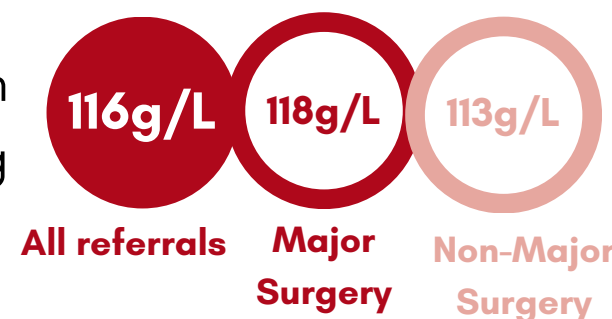


Referred by:

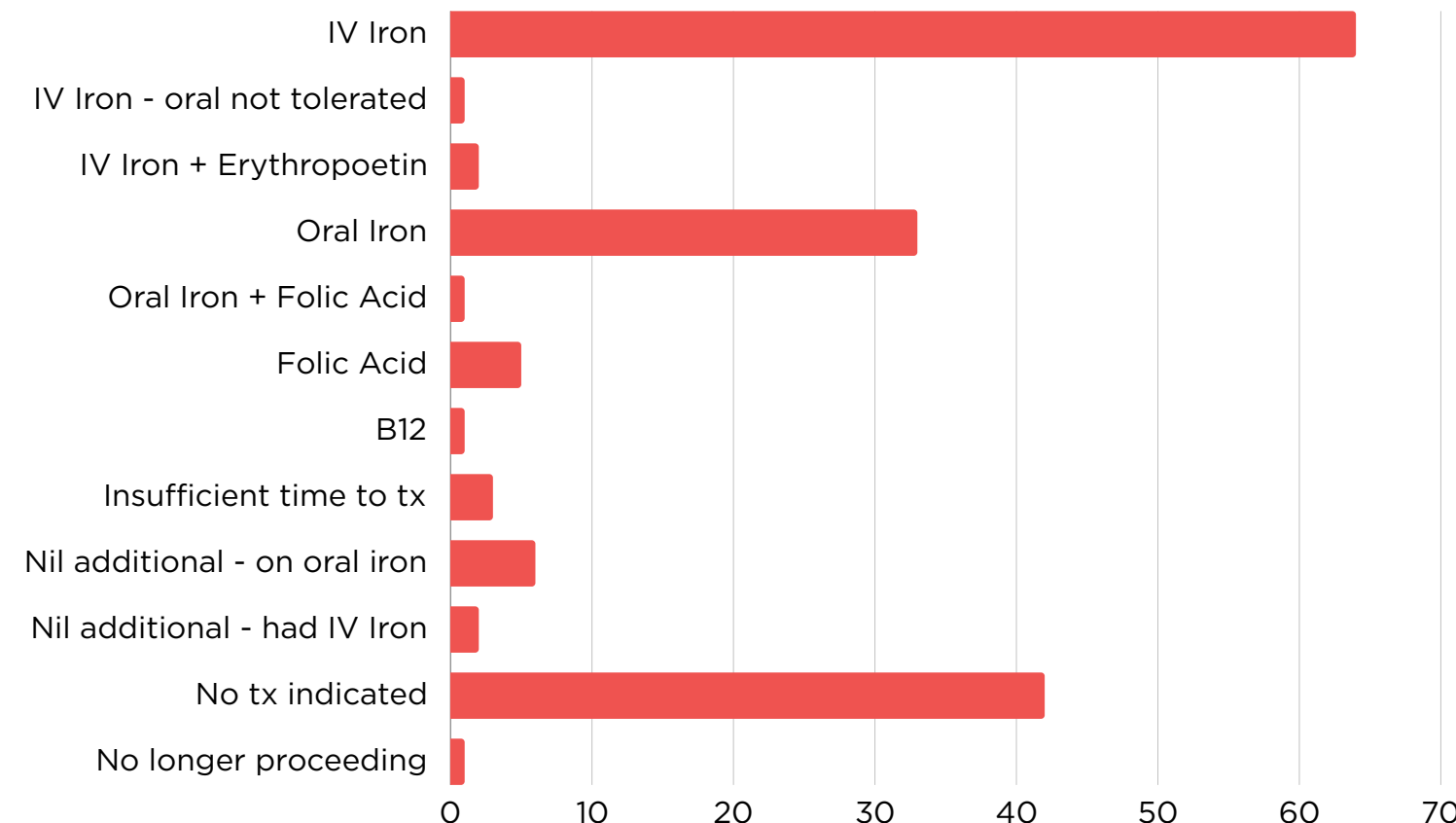
- POA Nurse: 96%
- Anaesthetist: 2%
- Other Site: 2%

Hb range was **74 - 139g/L**, with average Hb **lower** in those awaiting non-major surgery.

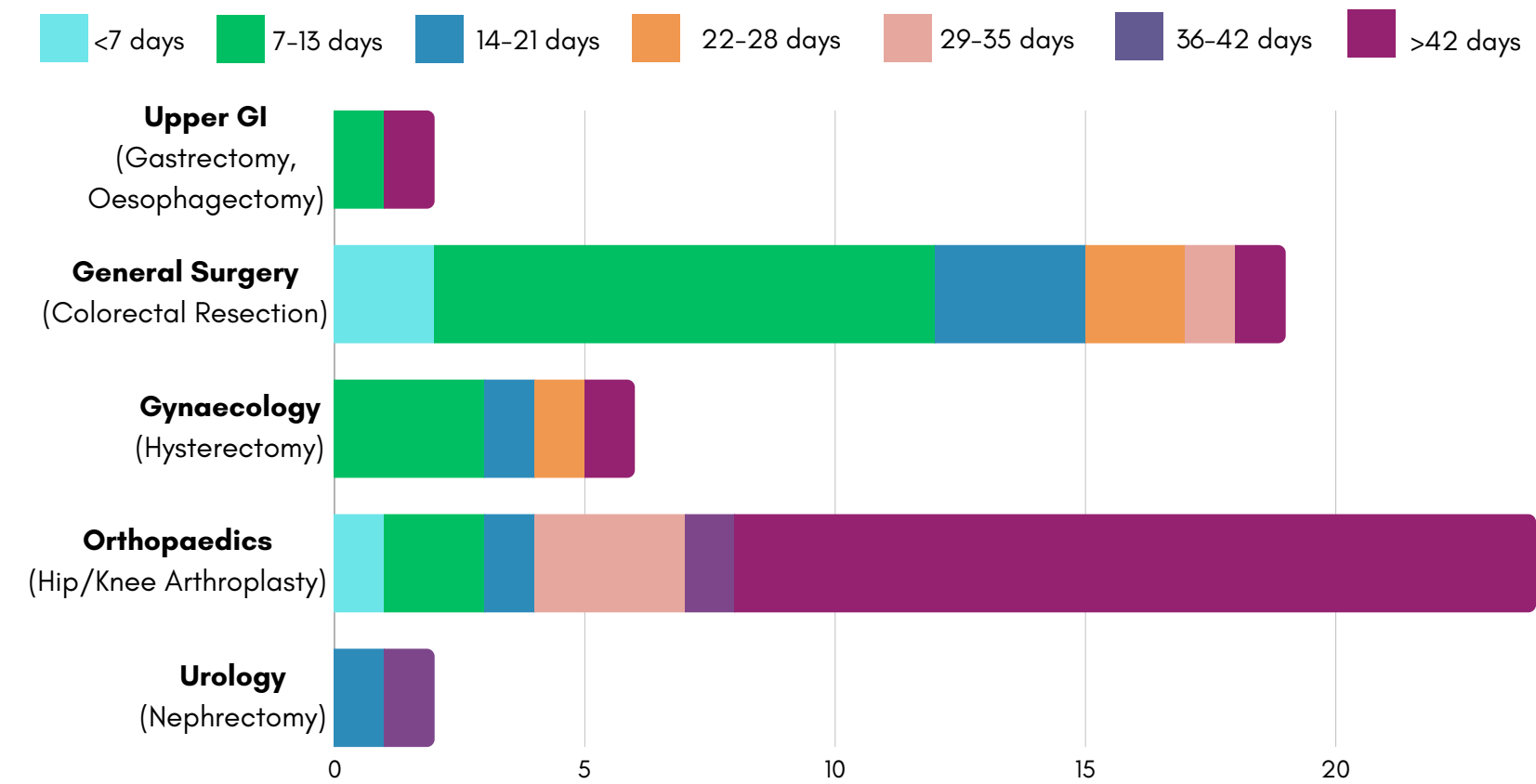
Average haemoglobin:



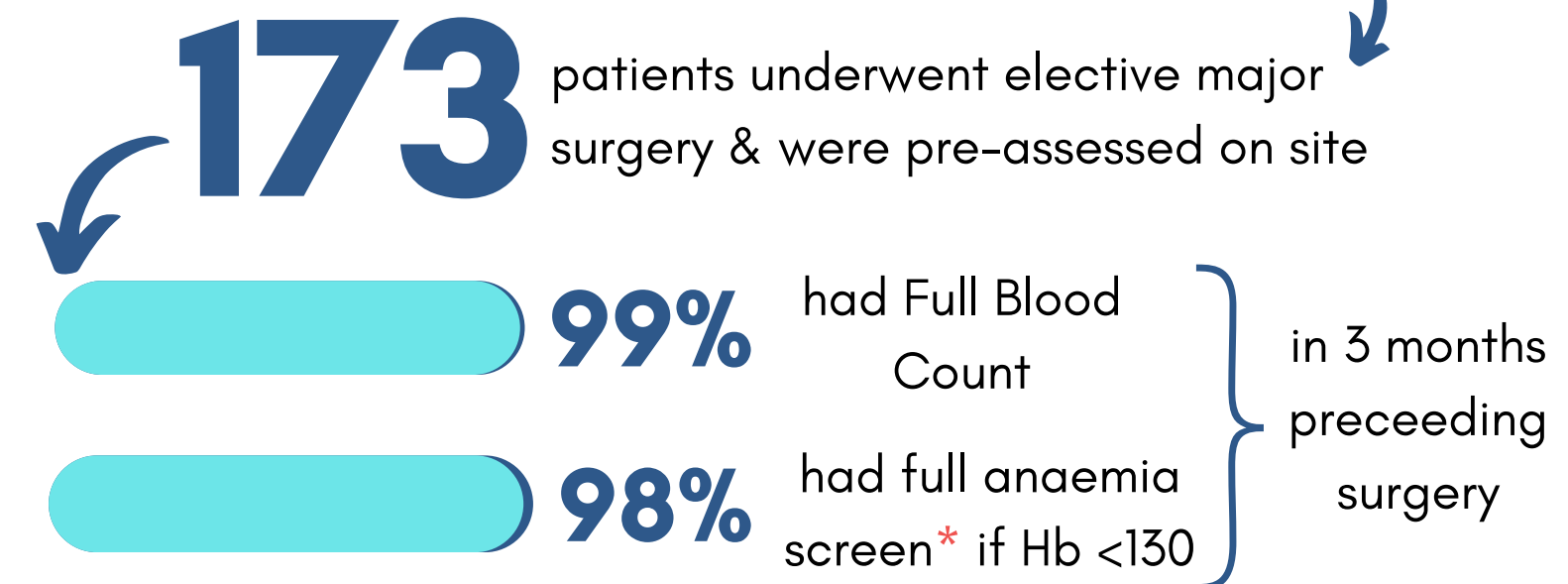
Majority of patients were **treated with IV Iron**:



IV Iron was often administered **less than 14 days** before major surgery:



Theatre activity data for September - October 2023:



*FBC, iron studies (serum ferritin, transferrin saturation), B12, folate, renal function (U&E and eGFR), CRP)

Future Work

Efforts should continue to ensure all patients are screened for anaemia within 3 months of major surgery working with POA & surgical booking teams.

This baseline evaluation will inform future improvement work to identify and treat anaemia earlier in surgical pathways.