Early anaemia optimisation: capturing major elective surgical patients before pre-op assessment

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# Pre-op anaemia optimisation at Ysbyty Gwynedd

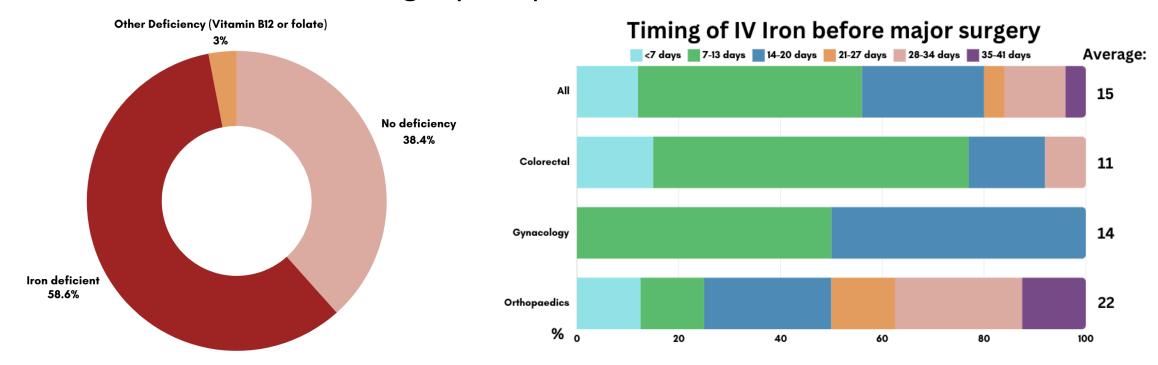
- Established service:
  - POAC nurses identify anaemic patients or majors with Hb <130g/L</li>
  - Full anaemia screen requested
  - Refer to POAC pharmacist for review & treatment
- Average of 54 referrals per month (both majors & non-majors)
  - ~10% of patients attending POAC





#### **Baseline Data**

- September November 2023: 257 patients underwent major surgery on site
- 99.6% had FBC in 3 months preceding surgery
- 94% of those with Hb <130g/L pre-op had an anaemia screen



- IV iron often administered less than 14 days before surgery.
- Unable to facilitate IV iron prior to surgery in 5% of patients

# Timing of IV iron prior to surgery



Maximal response to IV iron seen after 4 weeks



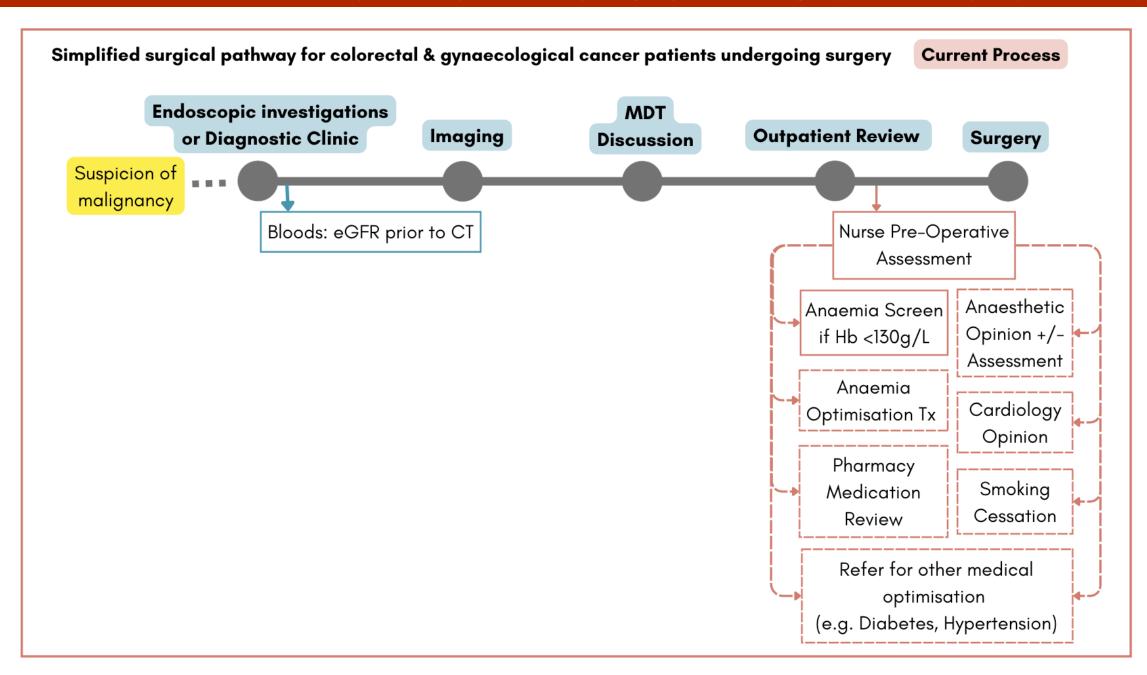
50% of effect at 14 days



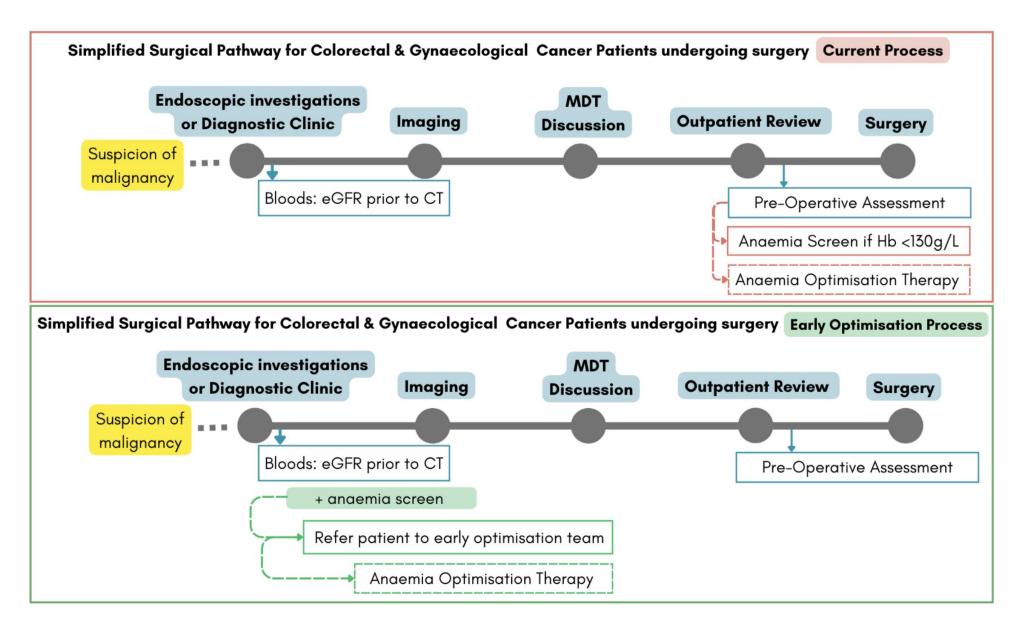
Aim to administer IV iron at least 14 days prior to major surgery



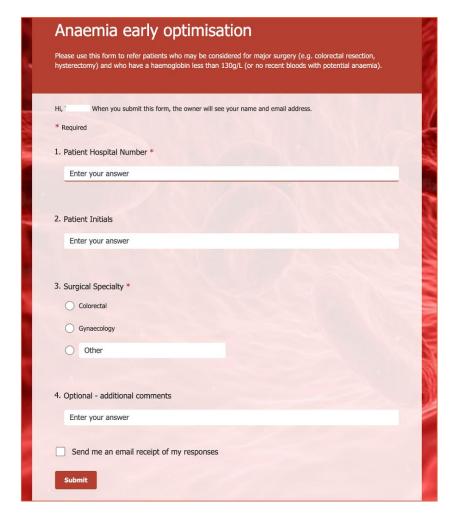
Focus on colorectal & gynae cohorts

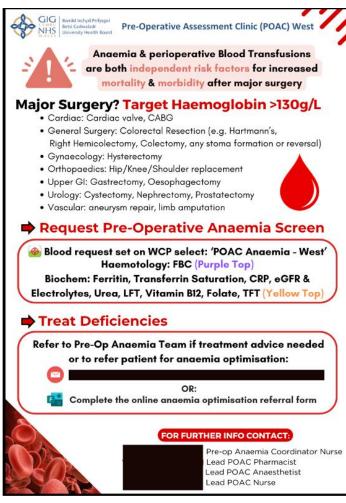


# **Early Optimisation**



### The intervention: other resources





#### Pre op anaemia screen:

Biochemistry: Tsat, Ferritin, b12, folate, TFT, Urea and Electrolytes, eGFR, LFT (yellow top)

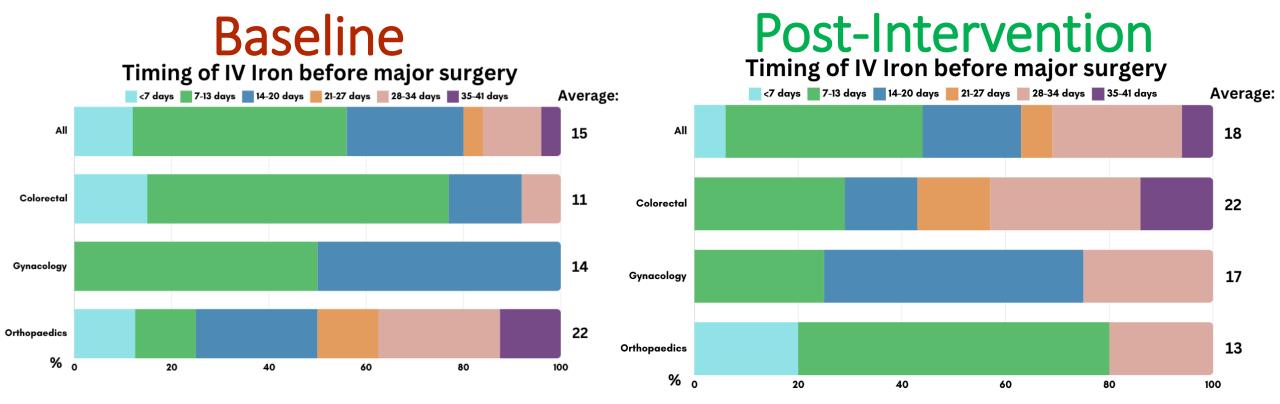
Haematology: FBC (purple top)



# Results

Baseline (September - November 2023)		Post-intervention (March - May 2024)
257	Number of Patients	218
99.6%	Full Blood Count checked within 3 months	99.5%
94% (95% colorectal, 80% gynaecology)	Full anaemia screen if Hb <130g/L	<b>96%</b> (100% colorectal & gynaecology)

• Unable to facilitate IV iron prior to surgery: 0% of patients (5%)



# Challenges



Recruitment



Ward escalated for acute medical inpatients, limiting capacity on site to facilitate IV Iron appointments preoperatively



Justifying financial cost of IV iron



Contacting patients prior to surgical referral



Full anaemia screens not always requested early & the referral process

Feasible to improve pathways to enable early identification of anaemia with the appropriate resource

Short nature of cancer pathways should not be a limiting factor from maximising the time available to optimise patients prior to surgery

Plan to pilot with HCA practitioner role, formalise the early optimisation process and re-audit to measure sustained improvement

Screening for other modifiable risk factors & early screening for other specialties (HSQ)

# Questions



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