



Blood Health National Oversight Group Anaemia Workstream

Patient Blood Management Pillar1
Preoperative Anaemia

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Clinical Lead





A big thanks to all.....

- True multidisciplinary work
- Led and delivered by different professional groups in different health boards

Thank You

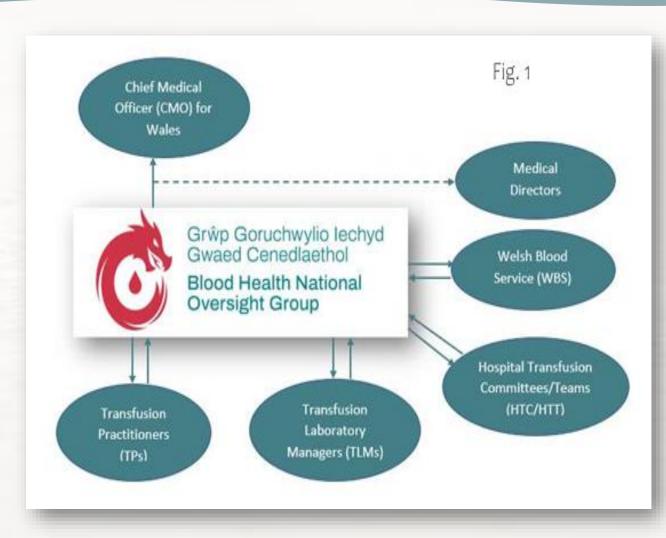
Very clear that all make a difference





Who, How and Why?

- Blood Health National Oversight Group (BHNOG)
 oversee the Blood health Plan for Wales.
- 'Once for Wales approach' to prudent use of donated blood and improvement in population blood health.
- Anaemia is one Key workstream
 - Patient Blood management for surgical patients set as one of key objectives when Anaemia group came to fruition in 2019.
 - Recognise prevalence of anaemia in surgical patients and the increased use of donated Red Cells.
- Successful bid for VHBC healthcare funding in 2022 to drive implementation of a national pathway.







Preoperative Anaemia Project Jan 2023-Dec 2024

The benefits of this project were defined as:

- Prudent use of donated RBCs and reduced demand.
- Improved clinical outcomes post-surgery.
- Reduced length of hospital stay.
- Ensuring equity of care in preoperative anaemia management.
- Provide evidence of the benefit of anaemia management for other patient groups.

Successful bid

- Allowed recruitment of a small team within the Welsh Blood Service to support delivery of the project.
- Heavily scrutinised via VBHC to demonstrate outcomes and rationalise prudent use of funds.





Activities Against Projected Timelines and Actions

Establish Process (0-6 months)

Implement Process (6-12 months)

Embed + Monitor (12-24 months)

- Establish the project team
- Develop project clinical governance framework
- Define and collect baseline data with Digital Health Care Wales (DHCW)
- Engage with individual HB pre-op leads to identify additional stakeholders, share best practice initiatives and implementation
- Develop individualised HB action plans for implementation/optimisation of perioperative anaemia pathway.

- Coordinate All-Wales implementation strategy for preoperative anaemia to overcome barriers, prioritising standards of the agreed All Wales perioperative pathway
- Coordination of best practice, sharing and benchmarking as appropriate to ensure a coordinated approach
- Support HB expansion of IV iron delivery through release of allocated VBHC funds.

- Support implementation, develop documentation and deliver educational requirements.
- Coordinate and embed pre-op pathway into routine use.
- Develop a set of standards to benchmark against
- Outcome monitoring via data from DHCW to evidence use of pathway.
- Measurable outcomes to include impact on: RBC transfusion rates, Length of Stay, readmission rates and mortality.





Developing Standards for Anaemia

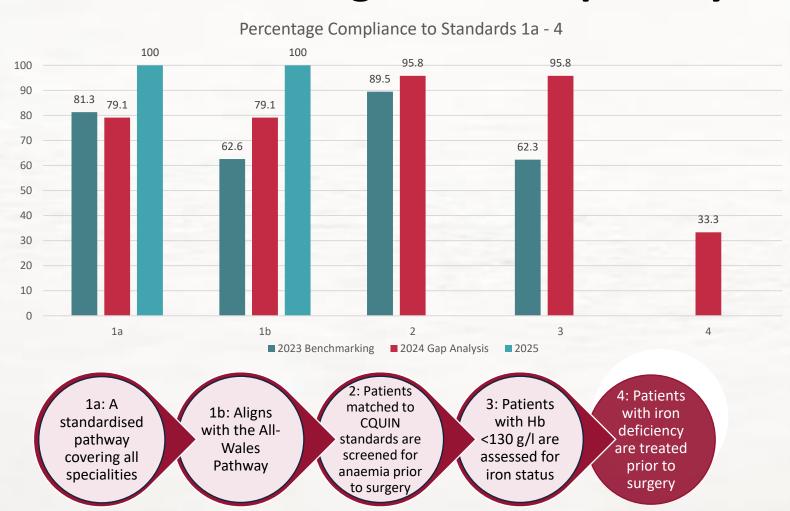
(- the Importance of Gap Analysis)

- Use of a single standardised preoperative pathway in surgeries with a potential high expected Blood Loss and a transfusion risk
- Align to single pathway across all Health Boards in Wales
- Develop a data set to benchmark centres (Wales CQIN) to ensure patient equity
- Screen for causes (iron deficiency) of anaemia in patients with Hb < 130g/L
- Patients with ID are treated prior to surgery
- Aligns with NICE Guidance NG24, NG 180, QS138 and CPOC guidance





Preoperative Anaemia Programme Gap Analysis Results







Develop a Dashboard to Allow Visibility

live in March 2025

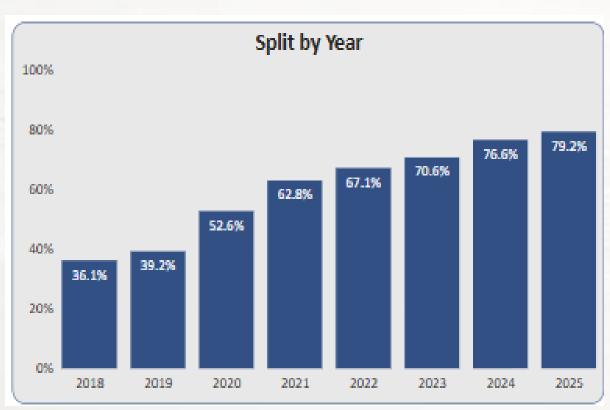
 Prevalence of anaemia in major surgical specialties in Wales is 30 % (2021)

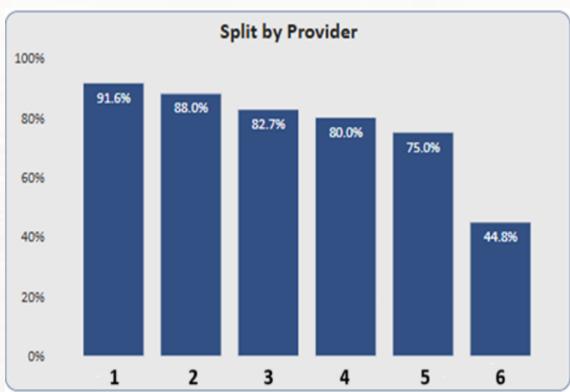






Screening for Iron Deficiency: Pathway Issued 2021

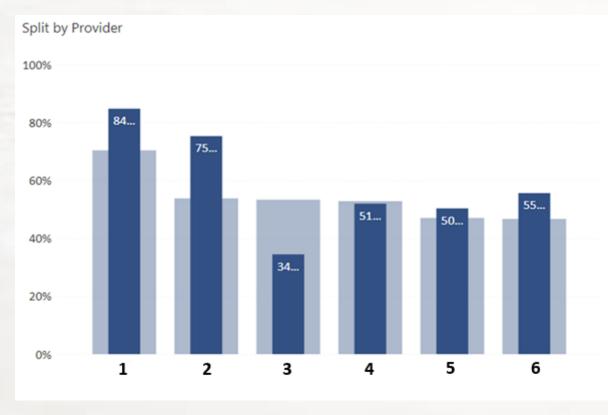


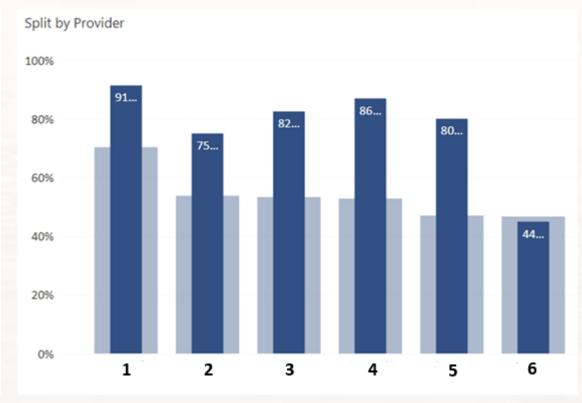






Screening for Iron Deficiency by HB – Use of the POAS Test Set

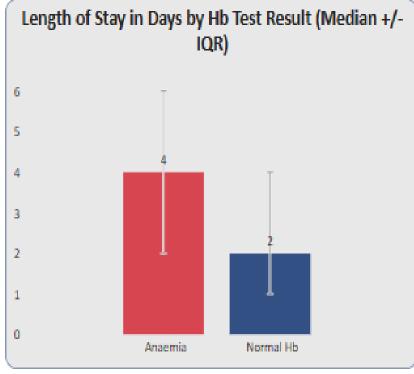


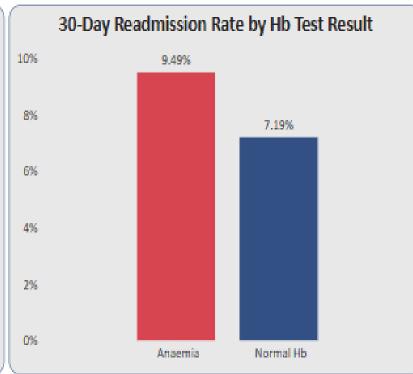


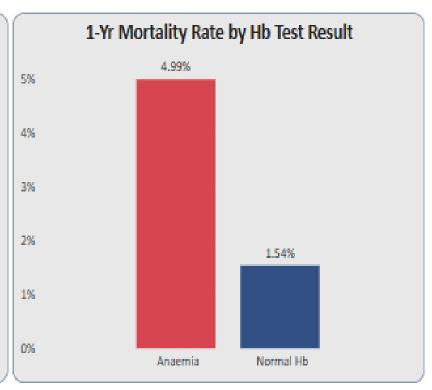




Comparison of Anaemia and Normal Hb Levels: Impact on Post-Surgical Outcomes











Post 24 months until today.....



Collaboration with CEDAR established to support the publication of medical articles related to the programme.



Amendments made to the POAS test set qualifiers.



Treatment Data Collection from 2 pilot sites for IV iron and 1 HB for transfusion have been integrated into the anaemia dashboard for proof-of-concept analysis.



Major Surgery Anaemia Dashboard launched.



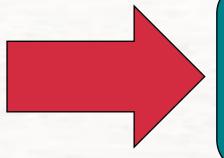
Scoping and proposal of a Major surgery Post Op Anaemia Pathway.





Preoperative Anaemia Screen Qualifier Changes

- Hb<130g/l + possible blood loss >500ml/transf. risk >10%
- Iron Def + possible blood loss >500ml/transf. risk 10%.
- Low risk surgery but chronic bleeding.



- High Bleeding risk
- Other Use Agree Locally

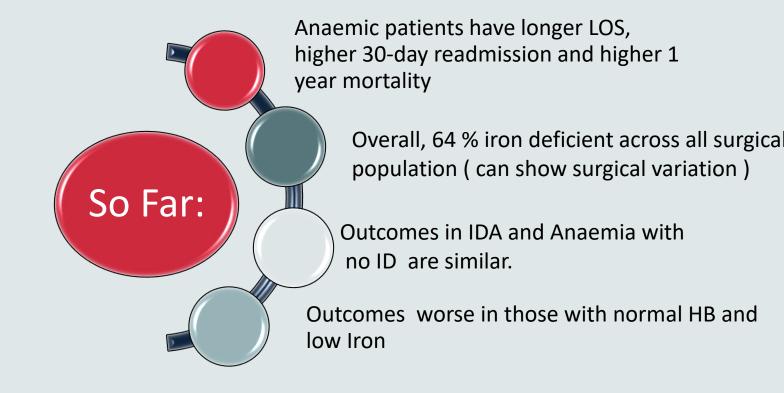




Publishing Data - 3 Papers in the Pipeline

Paper 1 describes methodology of national project and looks at patient demographics and health outcomes across the whole surgical population related to anaemia and iron deficiency outcomes including:

- LOS, 30-day mortality
- 1 and 5-year mortality
- Readmission rates





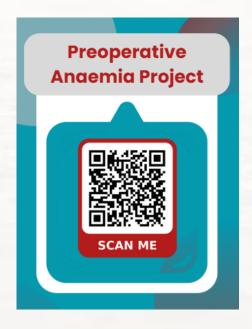


Patient Blood Management Education and New Tool Kit













Preoperative Anaemia Programme Key Priorities for the Next 6 Months



Access to Robust Treatment Data



Post Operative Anaemia Management