



Anaemia Management - What is happening across the UK?

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UK & Ireland Blood Transfusion Network (UK&IBTN)

3. Remit

The remit of the UK&IBTN anaemia working group is to:

- Update and share relevant information to national, regional, and local hospital transfusion committees in their own country regarding anaemia management activities undertaken across the UK&I
- Evidence the scale of anaemia and its impact in UK&I populations (e.g., national audits) and identify areas for improvement
- Scope availability of useful data within each nation, linked to anaemia and outcomes to assist with evidencing the scale of problem
- Horizon scan for emerging trends, areas of opportunity for anaemia management initiatives and to suggest areas to focus efforts through collaboration with other nationally aligned subgroups such as Public Health, speciality subgroups and international bodies.



UK&IBTN Chair Joanne Gregory Blood Health Advisor, WBS

Optional attendees:

Stephanie Ditcham - Blood Health Team Lead WBS

Dr Caroline Evans - Clinical Lead preoperative anaemia programme WBS

Andrea Marshall PBM
Development Manager NHSBT

UK&IBTN Anaemia Work Group Membership

Republic of Ireland
Representative Aisling
Sweeney Medical
Scientist in
Haemovigilance
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SNBTS

Northern Ireland

Damien Carson – Consultant

Anaesthetist, South Eastern

Health & Social Care Trust

Sonia Blair – Haemovigilance

Practitioner, Belfast Trust

Representatives

Katherine Biggin -Transfusion Researcher John Faulds – Transfusion Practitioner

NHSBT

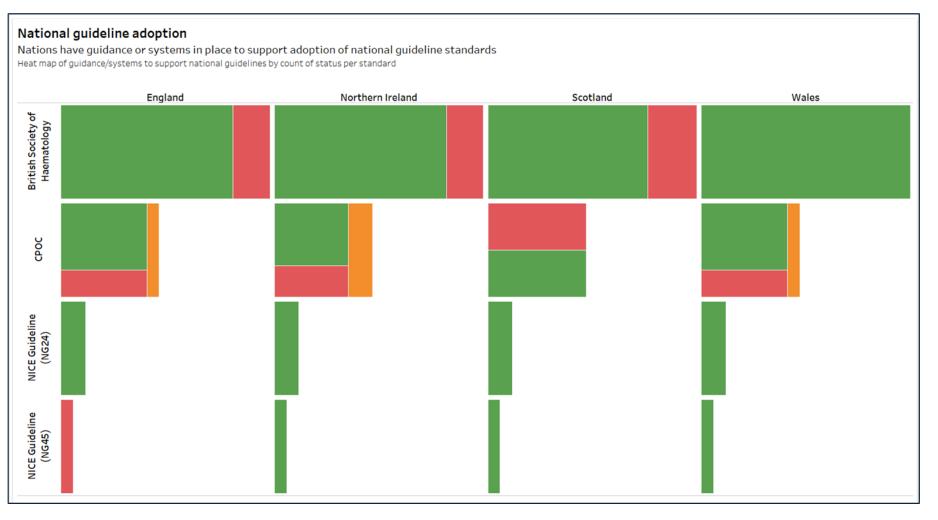
Samantha Timmins - PBM
Practitioner



			Preoperative anaemia Complia	nce matrix					AR* awaiting response
			Devolved nation						
Guideline	Standard (please answer all, add detail to sections opposite)		England updated March 25	Northern Ireland updated Mrach 2025	Wales Updated March 2025	SCOTLAND Update Feb 2025	Republic of Ireland		
	Assessment for anaemia in patients undergoing	a)Is there a national guideline to support this standard? Yes/No	Supported through promotion of BSH guidelines and Pre-Op toolkit	CPOC and RCOA guidance quoted by the preoperative Assessment workstream (2022), GAIN Guiclines also support this.	Yes - NHS Wales preoperative anaemia pathway (version 4)	Yes - Scottish Standard for the Optimisation of Preoperative Anaemia ^E	Compliant (evidence ba	based)	
	elective surgery should be performed early in the preoperative pathway.	b) s there any evidence to support compliance to guideline? Yes/No	No	No	Yes via preoperative anaemia dashboard	No			
		c) Does the evidence indicate you are compliant to the guideline? Indicate using key (full compliance set at 90%)	NA NA	Not applicable	80% of patients are screened at 12 weeks	Not applicable			
	Patients undergoing major surgery should be	a)Is there a national guideline to support this standard? Yes/No	Supported through promotion of BSH guidelines and Pre-Op toolkit	scheduled major surgery (GAIN) - The Guidelines and	Yes -NHS Wales preoperative anaemia pathway (version 4)	Yes - Scottish Standard for the Optimisation of Preoperative Anaemia		Partially compliant	
	screened for anaemia by full blood count (including red cell indices) in the first instance	b)Is there any evidence to support compliance to guideline? Yes/No	No	No	Yes via preoperative anaemia dashboard	No	AR*		
	,	c) Does the evidence indicate you are compliant to the guideline? Indicate using key (full compliance set at 90%)	NA NA	Not applicable	80% of patients receive an initial FBC	Not applicable			
	Patients should be provided with information	a)Is there a national guideline to support this standard? Yes/No	Supported through promotion of BSH guidelines and Pre-Op toolkit	No	Yes - NHS Wales preoperative anaemia pathway (version 4)	Preoperative Anaemia	non complaint		
	regarding the results of preoperative screening tests and potential treatment options to allow	b)Is there any evidence to support compliance to guideline? Yes/No	No	No	No	No			
	for shared decision-making regarding further management	c) Does the evidence indicate you are compliant to the guideline? Indicate using key (full compliance set at 90%)	NA:	Not applicable N/A	Not applicable	AH .			
	In the preoperative context, Hb <130 g/L should be considered the threshold at which patients	a)Is there a national guideline to support this standard? Yes/No	Supported through promotion of BSH guidelines and Pre-Op toolkit-	Management of the anaemic adult patient prior to scheduled major surgery (GAIN). Men 130g/I, women 120g/I in most Trusts	Yes - NHS Wales preoperative anaemia pathway (version 4)	Yes - Scottish Standard for the Optimisation of Preoperative Anaemia			
	and/or other nutrient deficiencies and enhanced	b)Is there any evidence to support compliance to guideline? Yes/No	NCA2023- 68% patients screemed commenced iron therapy	No	Yes via preoperative anaemia dashboard	No	AR"		
	PBM measures.	c) Does the evidence indicate you are compliant to the guideline? Indicate using key (full compliance set at 90%)	No	Not applicable	80% patients screened at this threshold	Not applicable			
	Ferritin <30 µg/L suggests absolute iron depletion/deficiency likely to benefit from iron supplementation.	a)Is there a national guideline to support this standard? Yes/No	Supported through promotion of BSH guidelines and Pre-Op toolkit	NITC / GAIN peri-op guidance recommends use of	Yes - NHS Wales preoperative anaemia pathway (version 4)	Yes - Scottish Standard for the Optimisation of Preoperative Anaemia.			
		b)Is there any evidence to support compliance to guideline? Yes/No	No	No	No	No	AR*		
		c) Does the evidence indicate you are compliant to the guideline? Please indicate using key opposite (full compliance set at 90%)	NA NA	Not applicable	No available treatmet data awating national LIMs - pilot in process of being undertake	Not applicable			
	Ferritin 30–100 µg/L with a low TSAT (<20%) indicates possible iron depletion/deficiency in	a)Is there a national guideline to support this standard? Yes/No	Supported through promotion of BSH guidelines and Pre-Op toolkit	NITC / GAIN peri-op guidance recommends use of Teats and advises treatment routes.	Yes - NHS Wales preoperative anaemia pathway (version 4)	Yes - Scottish Standard for the Optimisation of Preoperative Anaemia			
	the contest of inflammation that may benefit	b)Is there any evidence to support compliance to guideline? Yes/No	No	Local practice /Local Audits only - No overall NI collation	No	No	AR*		



Data Presented using Tableau Evidence of national guideline adoption







Evidence of national guideline adoption

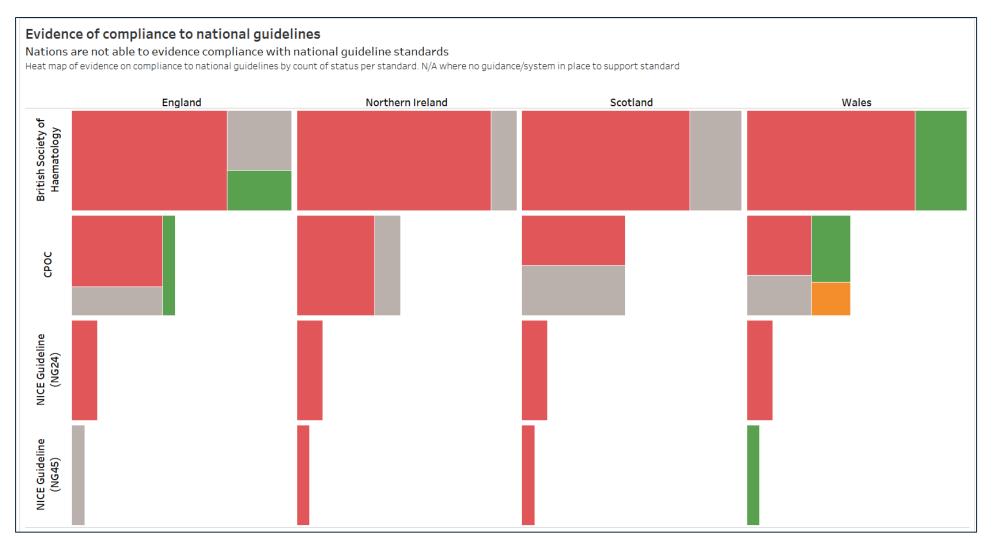
Grŵp Goruchwylio Iechyd Gwaed Cenedlaet Blood Health National Oversight Group



lational guideline adoption by standard			
ations' guidance or systems in place to support adoption of national guideline standards is variable ot chart of status by nation by standard			
uideline: British Society of Haematology			
tandard	No		Yes
ssessment for anaemia in patients undergoing elective surgery should be performed early in the preoperative pathway.		•••	• •
commissioners and provider organisations should formalise integrated pathways for the referral of patients found to be anaemic during surgical workup.	•		•
SA therapy may be indicated to treat preoperative anaemia in patients who decline transfusion therapy or in patients who have complex red cell antibodies.	•	• • •	•
valuation and audit of practice is encouraged to contribute to the evidence base for timing of iron therapy.	• • •	•	
erritin 30–100 µg/L with a low TSAT (<20%) indicates possible iron depletion/deficiency in the context of inflammation that may benefit from iron supplementation.		• • •	
erritin <30 μg/L suggests absolute iron depletion/deficiency likely to benefit from iron supplementation.		• • •	• •
n the preoperative context, Hb < 130 g/L should be considered the threshold at which patients are likely to benefit from screening for iron and/or other nutrient deficiencies and nhanced PBM measures.		• • •	• •
n unexplained anaemia without iron deficiency, referral to haematology should be considered according to the severity of anaemia (e.g., men with Hb < 120 g/L, women with Hb 100 g/L, or according to locally agreed criteria). The likelihood of a serious cause or haemoglobinopathy is proportional to anaemia severity.		• • •	• •
ntravenous iron may be considered in patients with confirmed iron deficiency who are intolerant of oral iron, or for patients where there is a suboptimal response to oral iron, or where there is insufficient time in the surgical pathway to assess response to oral iron.		• • •	0 0
ntravenous iron should not be offered indiscriminately to all patients with anaemia preoperatively.		• • •	00
ratients diagnosed with absolute IDA should be treated with iron replacement. Oral iron therapy should be offered as first-line treatment.		• • •	0 0
latients should be provided with information regarding the results of preoperative screening tests and potential treatment options to allow for shared decision-making egarding further management	•	•••	•
ratients undergoing major surgery should be screened for anaemia by full blood count (including red cell indices) in the first instance		•••	00
atients with unexplained IDA should be referred for investigation according to local criteria or those set out by British Society for Gastroenterology.		• • •	• •
reoperative transfusion should only be considered for the correction of preoperative anaemia in very anaemic patients when an urgency for surgery precludes other options or management of anaemia, or when these have been instituted but have not had the desired effect. Restrictive transfusion thresholds should be employed wherever possible.		• •	• • •
he use of reflex testing aiming to identify the cause of anaemia may reduce delays in anaemia diagnosis and minimise patient visits.	• •	••	•
When ESA therapy is indicated preoperatively, it should be given with iron supplementation to maximise its efficacy.	• •	• •	



Data Presented using Tableau Evidence of compliance to national guidelines







Grŵp Goruchwylio Iechyd Gwaed Cenedlaethol

Blood Health National Oversight Evidence to demonstrate compliance by standard Nations' ability to evidence compliance to national quideline standards is variable Dot chart of status by nation by standard, N/A where no quidance/system in place to support standard (valid to combine N/A with No if desired) England Guideline: British Society of Haematology Northern Ireland Scotland Standard Wales Assessment for anaemia in patients undergoing elective surgery should be performed early in the preoperative pathway Guideline: CPOC Standard Partial All children and young people should be screened for anaemia before procedures associated with a 10% risk of transfusion as early as possible in the pathway All hospitals should establish data capture systems to allow auditing against the metrics and recommendations provided. All hospitals should work to develop pathways of perioperative care for surgical patients with anaemia that comply with the recommendations in these guidelines All patients referred for surgery who fulfil the NICE preoperative testing criteria should have a full blood count (FBC) at referral to surgery or at first surgical consultation. All patients undergoing surgery with a clinical finding of anaemia should have documentation of the type and likely cause of anaemia. All patients undergoing surgery with anaemia or at risk of anaemia should be proactively provided with information (paper and/or digital) regarding causes and treatment of anaemia including options for blood transfusion. All patients with anaemia having a major operation (with expected blood loss of >500ml or 10% blood volume) should have a documented plan for preoperative, intraoperative and postoperative management of anaemia, in line with Patient Blood Management (PBM). All staff working in perioperative settings should have training in anaemia, PBM and blood transfusion. This includes those working with patients receiving emergency surgical care ... Preoperative transfusion should only be considered for the correction of preoperative anaemia in very anaemic patients when an urgency for surgery precludes other options for management of anaemia, or when these have been instituted but have not had the desired effect. Restrictive transfusion thresholds should be employed wherever possible The use of reflex testing aiming to identify the cause of anaemia may reduce delays in anaemia diagnosis and minimise patient visits.

When ESA therapy is indicated preoperatively, it should be given with iron supplementation to maximise its efficacy.



2024 Audit of NICE Quality Standard QS138



NICE QS 138*

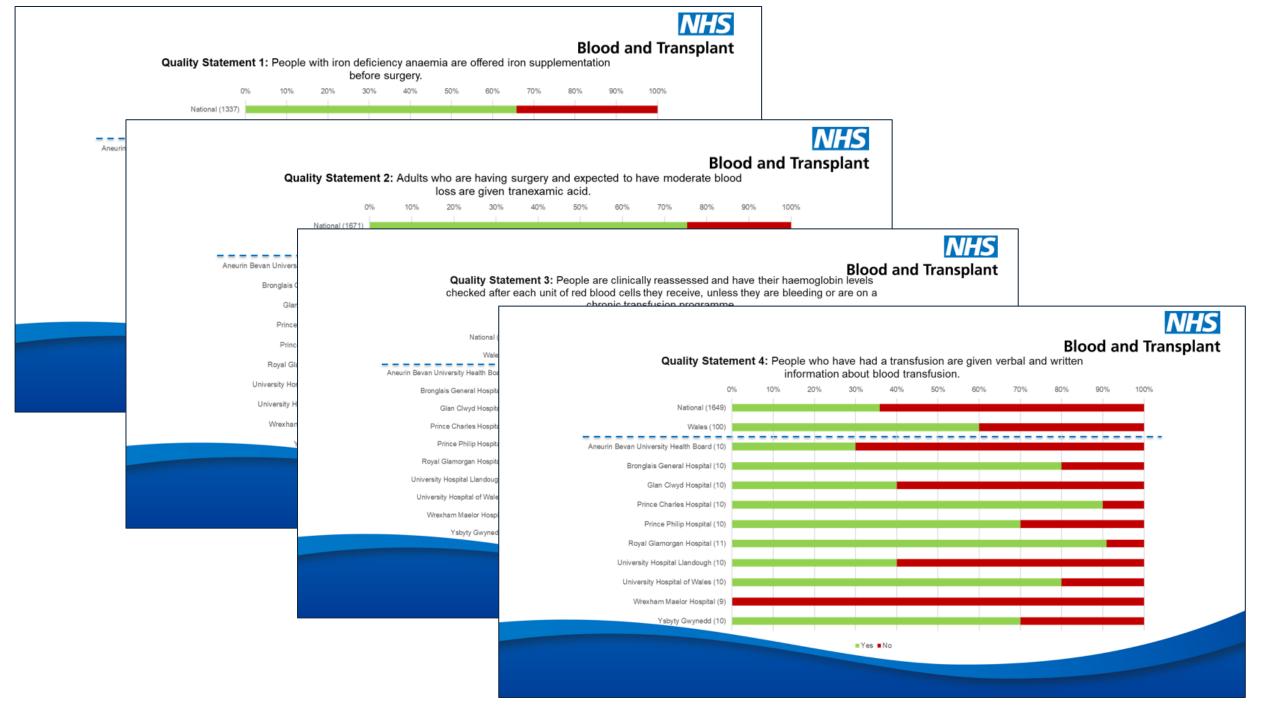
- Quality Statement 1: People wi supplementation before surgery.
- Quality Statement 2: Adults who moderate blood loss are given trans
- Quality Statement 3: People haemoglobin levels checked after unless they are bleeding or are on;
- Quality Statement 4: People who written information about blood tran

*Measures are adapted from those issued in NICE QS 13

Key Findings

	Patients Audited
National	5105
Regional	249
Aneurin Bevan University Health Board	50
Bronglais General Hospital	19
Glan Clwyd Hospital	33
Prince Charles Hospital	15
Prince Philip Hospital	50
Royal Glamorgan Hospital	16
University Hospital Llandough	14
University Hospital of Wales	19
Wrexham Maelor Hospital	13
Ysbyty Gwynedd	20







Key Messages

- The analysis has yielded interesting information that can help to shape recommendations going forward
- Broadly, nations have guidance and/or systems in place to support the adoption of standards in national guidelines
- However, what is apparent is that nations are not able to evidence compliance with standards. The lack of information does not enable us to place a judgement on this finding, compliance could still be good or poor, and that is an interesting and actionable finding in itself
- Data visualisation can aid the presentation and interpretation of complex data such as these



Next Steps

- Position Paper in production to present the finding of the gap analysis which will be taken to the UK&IBTN parent group for further discussion
- Continue to work collaboratively to scope other areas of anaemia management such as women's health, obstetrics



Conclusion



reland Blood Transfusion Network (UK)
Anaemia Working Group
Terms of Reference

string group has been set up as a subgroup of the UK & Ireland
N). The purpose of the UK&BITN anaemia working group is to act.
Toronote best practice initiatives across UK&B which have betermia management
of anaemia through providing feedback on national anageroach to identifying the scale of the problem of

The development of a national group has helped us to gain insights into the national picture specifically for preoperative anaemia management in the cohort of patients with IDA



This work is transferable and can be replicated with other areas of anaemia management



The sharing of information is crucial in the understanding of the national picture



Collaboration is a key component to being able to identify the scale of the issue – we are stronger working together



The collection of evidence is vital to have a full understanding of the scale of the issue, nations should be working to ensure systems are intraoperable and evidence is readily available





With thanks to the UK&IBTN Anaemia Working Group Members

special thanks to Katherine Biggin & John Faulds from SNBTS for their work on the data analysis