Perioperative Blood Management: Organisational Survey

This survey is designed to be completed for sites that provide adult surgical services which require anaesthetic input. Sites that exclusively do paediatrics are not included in this project.

The first survey you complete should cover the main site within your trust unless you have a co-lead completing this already. A separate survey should then also be completed for any other sites within the trust that provide surgical services with anaesthetic support that are >1 mile away from the main site. Hospital details will only be used to determine if there are any differences between sites and hospitals or trusts will be not be identifiable in any future publications.

This survey link is unique to your hospital site and should not be shared between sites. If you are site lead for more than one site you should have recieved more than one survey link, if not please contact us and we will send you the number unique survey links you require.

You can save the survey and return to it later to complete it at a later point. Once completed and submitted you will not be able to make any changes to the form without contacting us first. The deadline for survey submission is 31st January 2023.

Once you have submitted the organisational survey we will send out certificates within 1 month.

You can find a blank pdf copy of this survey on our website: https://www.raftrainees.org/perioperative-blood-management

For any questions or further advice please contact us on: pbm.raft@gmail.com

Thank you for your participation!

Site Information		
Name of NHS Hospital Trust / local health board		
Start typing the name of your trust or health board and it should come up, if not select other and free text underneath		
Other, please specify		
		-
Name of NHS Hospital Site		
This first survey you complete should cover the main site within your trust unless you have a co-lead completing this already. A separate survey should then also be completed for any other sites within the trust that provide surgical services with anaesthetic support that are >1 mile away from the main site. For any questions or further advice please contact us on: pbm.raft@gmail.com		-
Does this site offer day-case surgery ONLY?	○ Yes ○ No	

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How many inpatient beds does this site have?	
You can often find this answer on the trust website (answer must be as a number not text)	
Activity Information	
Approximate number of elective operations per year at your hospital	
Please answer to the nearest 50-100 cases (answer must be as a number not text)	
Which surgical specialties does this hospital site provide? (please tick all that apply)	☐ Obstetrics ☐ Major Trauma Centre ☐ Vascular ☐ Cardiac ☐ Thoracic ☐ Elective Orthopaedics ☐ Orthopaedic Trauma ☐ Transplant Surgery ☐ Major Urology Cancer Resections ☐ Major Gynaecology Cancer resections ☐ Upper Gl ☐ Lower Gl ☐ Hepatobiliary ☐ Neurosurgery ☐ Major head and neck cancer resections ☐ Burns & plastics ☐ None of the above
Is there an Emergency Department on site?	○ Yes ○ No
Is there an Intensive Care Unit on site?	○ Yes ○ No
Are there dedicated emergency theatres on site?	○ Yes ○ No
Does this site have a blood bank?	YesNo
Uptake and use of electronic data	
Does your NHS Trust have an Electronic Medication Record?	YesNo



If yes, which Electronic Medication Record (EMR) does your trust use?		 Allscripts (Oasis/ Sunrise) Atos (Sema-Helix) Cerner (Millennium/ FirstNet) DXC was CSC (Lorenzo/EDIS/i.PM) EMIS (Symphony) Epic Ideagen (Patient First) IMS Maxims Intersystems (TrakCare) Meditech NerveCentre Servelec (Oceano) Silverlink (iCS/PCS) System C (Medway/ Sigma) Other 			
If Other, please specify			_		
Does your NHS Trust have electronic	c notes?	○ Yes ○ No			
If yes, which electronic notes system use?	n does your site	Allscripts (Oasis/ Sunrise) Atos (Sema-Helix) Cerner (Millennium/ FirstNet) was CSC (Lorenzo/EDIS/i.PM) EMIS (Symphony) Epic Ideagen (Patient First) IMS Maxims Intersystems (TrakCare) Meditech NerveCentre Servelec (Oceano) Silverlink (iCS/PCS) System C (Medway/ Sigma) Other			
If Other, please specify			_		
Intra-operative Documentation	on				
	Electronic	Paper	Both		
How is the anaesthetic chart documented?	0	0	0		
How are intra-operative medication prescriptions documented?	0	0	0		
How are intra-operative blood product prescriptions documented?	0	0	0		

03/01/2023 14:44

Intra-operative Blood Management	
Does this site have access to point of care Hb measurements in theatre suites? (examples include blood gas analyser, HemoCue device)	○ Yes ○ No
If yes, do the point-of-care results link to the electronic system in real time? (by this we mean once the point of care test is done does the result link to the electronic health records for the patient)	 Yes, all point-of-care tests link to the electronic system No, none of the point-of-care tests link to the electronic system Depends, some link up & some do not N/A, no electronic health records at this site
How are red cells ordered intraoperatively? (tick all that apply)	☐ Phone call☐ Written request☐ Electronic request
Do you have the facility for electronic remote issue? (This is a process for obtaining blood units from a blood fridge positioned remotely from the blood bank. It is often done by submitting an electronic query to the blood bank regarding suitability of the patient for electronic issue and then going through a procedure for selecting the correct unit and printing a compatibility label.)	Yes No
Anaemia Referral Pathway for Elective Surgery	
This section of the survey refers to elective care of services)	only (not emergency surgery or trauma
At which point of the surgical pathway do patients who fulfil the NICE preoperative testing criteria usually have a full blood count at this site? (tick all that apply)	 □ At referral for surgery (e.g. from primary care) □ First surgical consultation □ When booked or listed for surgery □ Pre-operative assessment clinic (separate visit to when patient listed for surgery) >6 weeks prior to surgery □ Pre-operative assessment clinic (separate visit to when patient listed for surgery) < 6 weeks prior to surgery □ Day of admission for surgery □ Other
If other, please specify	
Typically what proportion of patients referred for surgery who fulfil the NICE preoperative testing criteria have their full blood count (FBC) taken either at referral to surgery or at first surgical consultation?	○ less than 50% of patients○ between 50-80% of patients○ >80% of patients
(Link to summary of guidance of when FBC should be taken from Centre of Perioperative Care Guideline for the Mangement of Anaemia in the Perioperative Pathway: https://cpoc.org.uk/sites/cpoc/files/documents/2022-09/6.%20CPOC AnaemiaGuideline Stepsforeachpatient.pdf)	

Is there a formal elective anaem that patients with anaemia can surgery?		 Yes, one formal pathway that covers all sur specialties Yes, but different surgical specialties have different formal pathways Informal pathways that depend on local knoof processes rather than accessible protocol/guidelines No pathway 		
What is the haemoglobin thresh patients to anaemia pathways? (Note 120g/L is equivalent to 12 equivalent to 13g/dL)	-	\bigcirc < 130g/L (all patients) \bigcirc < 120g/L females & < 1 \bigcirc Other	30g/L males	
Other, please specify				
Which specialty manages perior pathways? (tick all that apply)	perative anaemia referral	☐ Anaesthesia ☐ Surgery ☐ Haematology ☐ Other		
Other, please specify				
Typically what proportion of patients with newly identified anaemia, who are planned to undergo a surgical procedures with anticipated moderate to high blood loss (>500ml or >10% total blood volume), are assessed for the cause of their anaemia prior to surgery at this site?		 less than 50% of patients between 50-80% of patients >80% of patients This site does not do surgical cases where there is moderate to high anticipated/expected blood loss 		
When patients are found to done routinely to investig review current practice)? (Note: this list will only appropriate high blood loss)	ate the cause of anaem	ia at this site (either revi	ew protocol or	
	Yes	No	Unsure	
Serum Ferritin	0	0	0	
Transferrin saturation	0	0	0	
CRP Renal function	0	\bigcirc	\circ	
	0	0	\circ	
B12/folate Reticulocyte count	\bigcirc	\bigcirc	\bigcirc	
Reticulocyte haemoglobin content (CHr)	0	0	0	

Which professional group(s) decide if anaemia treatment should be initiated at this site? (tick all that apply)	 ☐ Anaesthetists ☐ Preoperative specialist nurses ☐ Surgeons ☐ Haematologists ☐ Anaemia specialist nurses ☐ Other
If other, please specify	
If oral iron is prescribed, what is the dosing regimen as per your site's local guidelines? (tick all that apply)	☐ Three times a day dosing ☐ Twice a day dosing ☐ Once a day dosing ☐ Alternate day dosing ☐ No local hospital guidance on perioperative oral iron dosing ☐ Other
If other, please specify	
If IV iron is prescribed, what is the most common product used?	Ferinject (ferric carboxymaltose) Monofer (ferric derisomaltose) Venofer (iron sucrose) CosmoFer (iron dextran) Diafer (ferric derisomaltose) Other Site does not use IV iron
Where are preoperative intravenous iron infusions for elective surgical patients performed? (tick all that apply)	 □ Outpatient setting □ Primary care setting □ Medical day case unit/ambulatory unit □ Surgical day case unit/ambulatory unit □ Perioperative monitored area (e.g. recovery) □ Labour ward □ Other
If other, please specify	
Typically what proportion of patients have a repeat haemoglobin check after iron therapy has been established prior to having an elective procedure?	○ less than 50% of patients○ between 50-80% of patients○ >80% of patients
Tranexamic Acid (TXA)	
This section refers to the use of tranexamic acid in services	adult elective & emergency surgical
Is prophylactic TXA use on surgical safety checklists &/or theatre safety briefings for all surgical specialties when moderate to high blood loss (>500ml or >10% total blood volume) is possible/anticipated?	 Yes No N/A this site does not do operations where expected blood loss is >500ml (e.g. some day case surgery units)

If no, for which of the following specialties is this in place? (tick all that apply)	Vascular Cardiac Thoracic Elective Orthopae Transpla Major Ure Major Gy Lower GI Hepatobi Neurosui Major he Burns &	orthopaedics edic Trauma nt Surgery ology Cancer Resections naecology Cancer resec	tions
What is the site's policy regarding intravenous TXA for patients undergoing surgical procedures with anticipated moderate to high (>500ml or >10% total blood volume) blood loss?	exclusior contraind ○ Offer TXA criteria (a	A & policy states defined n criteria (such as specifi dications) A & policy does not state administration at clinicia policy guidance for this	e exclusion
In practice do patients consistently/routinely get offered prophylactic intravenous TXA if expected blood loss is >500ml (or >10% total blood volume) at this site (with the exception of obstetrics where TXA is often offered when blood loss reaches 1000ml)? (Routinely refers to 'care that is provided regularly', contraindications include recent stroke or recent myocardial infarction)	Specific :	ss all surgical specialties surgical specialties only nely considered/offered es	
Which surgical specialties routinely use prophylactic TXA if expected blood loss is >500ml (or >10% total blood volume) and there are no contraindications? (contraindications include recent stroke or recent myocardial infarction)	☐ Vascular ☐ Cardiac ☐ Thoracic ☐ Elective ☐ Orthopae ☐ Transpla ☐ Major Ure ☐ Major Gy ☐ Upper Gl ☐ Lower Gl ☐ Hepatobe ☐ Neurosul ☐ Major he ☐ Burns &	Orthopaedics edic Trauma nt Surgery ology Cancer Resections naecology Cancer resections rgery ad and neck cancer resections the above	ections
Electronic	Paper	Both	Not applicable

03/01/2023 14:44 projectredcap.org

How is intraoperative INTRAVENOUS TXA (usually given by anaesthetists) documented in the patient notes?	0	0	0	0	
How is intraoperative TOPICAL TXA (usually given by surgeons at surgical site) documented in the patient notes?	0	0	0	0	
What doses of prophylactic INTRA typically given at your site? (tick a		☐ 15-30mg ☐ 1g stat d	ose ı/kg stat dose ı/kg stat dose ose followed by infus ı/kg stat dose followe		
What dose of intraoperative TOPIC prescribed when used at your site apply)		☐ Up to 1g ☐ 1-2g ☐ 2-3g ☐ Unsure ☐ Not appl	icable		
Intraoperative Cell Salvage This section refers to adult			vices		
What is your site's policy regardin cell salvage use in non-obstetric cethat apply)	g indications for				
Is the use of cell salvage av					
Company 2007	Avoided	Not avoided	No site policy	Unsure	
Cancer surgery	O	O	0	0	
Infected surgical field	\circ	0	0	\circ	
Sepsis	\cup	O	\cup	\cup	

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03/01/2023 14:44

Haemoglobinopathies (e.g. sickle cell disease)	0	0	0
What is your site's policy regarding cell salvage use for obstetric cases? (tick all that apply)	☐ All eme ☐ Elective ☐ Emerge ☐ If PPH o ☐ In patie ☐ In patie ☐ In patie (e.g. un negativ ☐ No loca discretie	nts with anaemia nts who refuse transfus nts with complex transus usual antibodies, irrac e blood requirements) I policy on cell salvage	oleeding risk PH usion of blood sfusion requirements diated or CMV
Where is cell salvaged blood administration documented? (tick all that apply)	☐ Anaesth☐ Operati☐ Operati☐ Operati☐ Blood p☐ Blood p☐ Medicat	netic chart (electronic) netic chart (paper) on note (electronic) on note (paper) rescription record (ele rescription record (paper) cion prescription record	ectronic) per) d (electronic)
How many cell salvage machines are available at this site?	0 01 02 03 04 05 06 07 08 09 010 0>10		
How many rapid infusers are available at this site?	0 0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0 10 0 >10		
Is point of care coagulation testing (e.g. TEG/ROTEM) available in at least one theatre	○ Yes ○ No		

Is point of care coagulation testing (e.g. TEG/ROTEM) available for use during cardiac surgery?	○ Yes○ No○ Not applicable to this site
(by available we mean that there is a point of care machine with the relevant theatre department and that after a blood sample is taken from a patient point of care testing can reasonably expected to be initiated within 5 minutes)	○ Not applicable to this site
Is point of care coagulation testing (e.g. TEG/ROTEM) available for use during major obstetric haemorrhage?	○ Yes○ No○ Not applicable to this site
(by available we mean that there is a point of care machine with the relevant theatre department and that after a blood sample is taken from a patient point of care testing can reasonably expected to be initiated within 5 minutes)	
Is there a blood fridge per theatre department at this site?	○ Yes ○ No
Is data on blood use fed back to clinicians/clinical teams/groups of surgeons/individual surgeons?	○ Yes ○ No
Please clarify this with your departmental transfusion lead or perioperative anaemia lead prior to answering this question if you are unsure	
If yes, who is this for?	☐ Individual anaesthetists ☐ Individual surgeon ☐ Departmental - anaesthetists ☐ Departmental - surgeons
If yes, how frequent is this feedback?	○ Weekly○ Monthly○ 2-4 times a year○ Annually○ Other○ Don't know
Please discuss the following answers with your hos	pital site's transfusion department
manager	
Often internal and external audits of theatre blood in liason with the transfusion lead for your department lead &/or hospital transfusion department manager	ent. Either your departmental transfusion
questions.	
How is data provided for routine INTERNAL audit?	Largely Paper based data collectionElectronic patient records (EPR) data but this is
(Internal audit is that which occurs within the hospital site or trust)	rarely possible/often incomplete Electronic patient records (EPR) data and this is often possible Electronic data supplemented by LIMS data and/or EBTMS (blood transfusion) data No routine internal audit

How is data provided for routine EXTERNAL audit? (External audit is when a hospital site/trust contributes to national audits, for example the National Comparative Audit of Blood Transfusion)	Electronic paragraphElectronic paragraphElectronic paragraphElectronic da	ata supplemented by I d transfusion) data	ata but this is
Is data on blood usage available to clinicians to look up in real time?	○ Yes ○ No		
Does your hospital site use a bedside electronic blood transfusion system?	○ Yes ○ No		
Please provide the name of the system	○ BloodTrack 7○ Blood 360○ EPR system○ Other	Гх	
Other, please specify			
What percentage of blood SAMPLES for group & save and cross matching are taken using a bedside electronic system?	0	50	100
		(Place a mark on th	ne scale above)
What percentage of transfusions are ADMINISTERED using a bedside electronic system?	0	50	100
		(Place a mark on th	ne scale above)
If blood products are ordered by electronic request, are the latest relevant parts of the FBC or coagulation results provided during the ordering process?	○ Yes ○ No		
(For example: whilst requesting blood products there is a prompt or information box that appears with relevant results prior to you finishing the request designed to prevent unessesary ordering)			
Individual anaesthetist survey			
Have you distributed the individual anaesthetist survey amongst colleagues at your site?	○ Yes ○ No		

RAFT feedback and Site Lead names for certificates

We would really like to understand your exeriences on how you found this project and if this is something RAFT should continue to work towards providing on a regular basis.

We would also like to confirm with you who the lead / co-leads are for this site and how names should be displayed on certificates and collaborator lists so that we can correctly recognise your contribution. Any names you put on this form will only be used for certification and collaborator list purposes.

If you would like to be kept up to speed with all things RAFT, including POPPY which will start later this year sign up to our mailing list on our website:

https://www.raftrainees.org/contact-us

	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
This project has helped achieve my curriculum and/or career	0	0	0	0	0
goals RAFT and TRNs should continue to provide similar short snapshot project opportunities	0	0	0	0	0
	Very easy	Easy	Just right	Difficult	Very difficult
As site lead how challenging was this project?	0	0	0	0	0
Please tell us in you own words ho could have been made better	ow your experience	e -			
Site lead / co-leads full name(s) to certificates and collaborator lists fublications		-			

(please put one name per line)



03/01/2023 14:44