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Please ensure that any GHNHSFT telephone extension numbers referred to within this Policy and Action Cards are pre-fixed with 0300 422 followed by the extension number listed.

TRUST POLICY

BLOOD TRANSFUSION (TRPOL16)

This document may be made available to the public and persons outside of the Trust as part of the Trust's compliance with the Freedom of Information Act 2000.

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In this document you may find links to external websites. Although we make every effort to ensure these links are accurate, up to date and relevant, Gloucester Hospitals NHS Trust cannot take responsibility for pages maintained by external providers.

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FAST FIND:

This policy controls a larger procedure manual which includes the following:

- AC1 Prescription (Authorisation) of Blood Components
- AC2 Requests for Blood Transfusions
- AC3 Pre-Transfusion Sampling
- AC4 Urgent Requests for Blood, Including Out of Hours
- AC5 Request for Blood Collection and Receipt on the Ward
- AC6 Collection of Blood and Blood Components from Blood Fridge
- AC7 Administration of Blood Components Preparation
- AC8 Administration of Blood Components Pre-Transfusion Checks
- AC9 Administration of Blood Components Technical Aspects
- AC10 Administration of Other Blood Components and Blood Products
- AC11 Clinical Care and Monitoring of the Patient, and Documentation
- AC12 Management of Adverse Events
- AC13 Blood Components and Patient Transfer
- AC14 Major Haemorrhage Code Red
- AC15 Major Haemorrhage Code Red Paediatric < 40Kg
- AC16 Haemovigilance
- AC17 Storage and Transport of Blood Components
- AC18 Training Requirements (Including Temporary/Agency Staff)

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IMPORTANT - VERSION AND COPY CONTROL:

This policy and accompanying procedures are maintained in a number of locations:

- Trust Policy Site
- Pathology website Blood transfusion
- Leckhampton Hospice
- Winfield Hospital
- Cheltenham Nuffield Hospital
- Tetbury Hospital

Strict copy control must be applied at all times, and any amendment of any of these documents must be made at **all locations.** DO NOT PHOTOCOPY DOCUMENTS.

1. INTRODUCTION / RATIONALE

- Transfusion of blood components is an important but potentially hazardous procedure
 that should only be undertaken when the clinical benefits to the patient outweigh the
 potential risks. Stringent procedures must be followed to ensure that the correct blood
 component is given and that any adverse reactions are dealt with promptly and
 effectively.
- This policy is supported by a number of action cards which are listed in the index and on the front page of this document.
- The Trust requires that transfusions of blood components are conducted according to the procedures annexed to this policy.

2. **DEFINITIONS**

Word/Term	Descriptor
Blood transfusion	The transfer of blood or blood components from one person (the donor) to the bloodstream of another (the recipient)
Allogenic	The transfusion of donated blood to a patient
Autologous	Reinfusion of the patient's own blood

3. POLICY STATEMENT

The fundamental principal of this policy is that the following requirements are adhered to:

- The system used must identify the patient uniquely.
- There must be a clear link between each stage in the procedure from the collection of the blood for grouping and cross matching and the delivery of the unit of blood to the patient.
- It must be possible to trace blood from donor to recipient.

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Standard procedures must be followed in both clinical and laboratory areas.

4. ROLES AND RESPONSIBILITIES

Post/Group	Details
Consultant Haematologist, Blood Transfusion	 Ultimate responsibility for blood transfusion across the organisation Ensuring review of this document
Blood Transfusion Laboratory Manager	Review and maintenance of this documentManagement of blood transfusion laboratory
Medical staff, trained and competent Specialist Nurses	 Appropriate prescribing (authorising) of blood components Maintaining adequate documentation in the patient's health records, including the reason for transfusion
Medical staff and/or Registered Practitioners	 Requesting blood using appropriate forms and telephone procedures. Providing sufficient information on request forms as defined by Trust procedures (Pathology Sample Labelling Web Page) Checking the identity of the patient before blood sample collection. Using safe techniques for obtaining blood samples. Labelling blood sample tubes at the bedside in accordance with Trust procedures. Reviewing compatibility information on the transfusion report prior to transfusion. Explaining and documenting the risks and benefits of blood transfusion to the patient. Obtaining verbal consent where possible for transfusion and documenting this. Following the correct procedure for collecting blood from the blood bank refrigerator. Checking the identity of the patient before transfusion. Monitoring the patient during transfusion. Documenting the transfusion in the patient's health record. Involving medical staff in any management of the patient if reaction occurs. Making sure units are fated as transfused on the blood
Phlebotomists	 tracking system Blood 360 (previously Blood Hound). Checking the identity of a patient before blood sample collection. Checking information written on the request form is complete. Using safe techniques for obtaining blood.

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	NHS Foundation Tru
Post/Group	Details
	 Labelling blood sample tubes in accordance with Trust procedures.
Head of Portering Services	 Ensuring that porters follow Trust procedures when collecting and transporting blood.
Managers responsible for Health Care Assistants	 Ensuring that HCAs follow Trust procedures when collecting blood Taking National Early Warning Score (NEWS 2) or equivalent named observations for transfusion
Blood Transfusion Department	 Ordering and storing blood components Monitoring and auditing the use of blood components Compatibility testing Examining donations for any unusual features which may cause problems Giving advice on the appropriate use of blood and blood products Reporting incidents to Serious Hazards of Transfusion (SHOT) and/or Competent Authority Provide blood transfusion training and/or training material for induction, annual mandatory updates, IV study day and
Health Records Departments	 Blood 360 (blood tracking system) Ensuring that patients' health records with stickers indicating transfusion received are retained for at least 30 years. This is applicable only to those records where transfusion stickers have been applied, i.e. before the implementation of the Blood 360 computer system
Ward and Department Managers	 Ensuring that there are appropriate request forms available. Ensuring blood administration sets are available. Ensuring staff are trained and competent to administer blood components. Ensuring staff are trained to follow procedures which ensure that the correct blood component is collected from the blood bank fridge and correct unit is given. Ensuring identity checks are always made when administering blood components to eliminate errors. Monitoring patients and recognising adverse reactions Reporting incidents. Ensuring staff receive appropriate training and updates.
Gloucestershire Care Services and other external organisations	 Following Trust procedure for blood and blood product transport, storage, traceability and incident reporting covered by this policy and its related documents Working in line with the Service Level Agreement set up by the Trust Using the Bag and Tag traceability system as directed by the Trust, or Blood360 if in place (GHC only)

Post/Group	Details		
	 Ensuring that registered practitioners sign and date the Bag and Tag label for each unit and return it to enable the unit to be fated as transfused on Blood 360 as assurance of vein to vein traceability 		

5. PRESCRIPTION AND CONSENT FOR TRANSFUSION

- Authorisers of blood (prescribers) have a responsibility to assess the patient prior to transfusion for any risks of transfusion and follow the single unit transfusion policy (NICE NG24, PBM 2014)
- The patient's consent for transfusion must be documented in the patient's transfusion care record (NICE NG24, SaBTO)

AC1 - Prescription (Authorisation) of Blood Components

REQUESTS FOR BLOOD TRANSFUSION AND COLLECTION OF BLOOD SAMPLES 6.

- Misidentification of patient samples can result in potentially fatal ABO incompatible transfusions.
- To manage these risks, the following procedures are in place:

AC2 - Requests for Blood Transfusions

AC3 - Pre-Transfusion Sampling

AC4 - Urgent Requests for Blood, Including Out of Hours

COLLECTION OF BLOOD COMPONENTS 7.

- Collection of blood components from a blood components storage facility is a key step in the blood transfusion pathway, and remains a significant cause of error. Mistakes at this point set the scene for subsequent errors resulting in wrong blood incidents.
- To manage these risks, the following procedures are in place

AC5 - Request for Blood Collection and Receipt on the Ward

AC6 - Collection of Blood and Blood Components from Blood Fridge

AC13 - Blood Components and Patient Transfer

Platelets, fresh frozen plasma and cryoprecipitate are issued directly from the Transfusion Department on a named patient basis

8. ADMINISTRATION OF BLOOD COMPONENTS

Errors at the time of administration of blood components are the most frequent documented site of error, culminating in the transfusion of the wrong blood

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To manage these risks, the following procedures are in place:

AC7 - Administration of Blood Components – Preparation

AC8 - Administration of Blood Components – Pre-Transfusion Checks

AC9 - Administration of Blood Components - Technical Aspects

AC10 - Administration of Other Blood Components and Blood Products

9. PATIENT MANAGEMENT WHILST RECEIVING TRANSFUSION

The most basic principle of patient care during blood transfusion is to ensure patient safety. Patients receiving transfusion should be monitored for signs of the potential complications of transfusion and any suspected problems need to be dealt with swiftly and efficiently

To ensure appropriate management of patients whilst they are receiving red cells units, the following procedure is in place:

AC11 - Clinical Care and Monitoring of the Patient, and Documentation

10. MANAGEMENT OF ADVERSE EVENTS

All Registered Practitioners, HCAs and medical staff should be aware of types and signs of transfusion reactions and what to do if a reaction is suspected. Prompt appropriate action is essential. This process is detailed in AC12 - Management of Adverse Events.

11. ADMINISTRATION OF OTHER BLOOD COMPONENTS

The administration of other blood components is detailed in Action card AC10.

12. MAJOR HAEMORRHAGE

Clinical team leaders are responsible for declaring a Major Haemorrhage in the event of a bleeding patient where a patient will require a massive transfusion. See the following action cards for the detailed procedure:

AC14 - Major Haemorrhage - Adults

AC15 - Major Haemorrhage - Paediatric < 40Kg

Note: Maternity has procedures in the case of Antepartum Haemorrhage and Postpartum Haemorrhage. See relevant policy pages for action cards related to these documents.

13. TRAINING REQUIREMENTS IN TRANSFUSION

AC18 - Training Requirements (Including Temporary/Agency Staff)

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14. TRAINING

See Training Needs Analysis document.

15. MONITORING OF COMPLIANCE

Do the systems or processes in this document have to be monitored in line	YES	
with national, regional or Trust requirements?		

Monitoring requirements and methodology	Frequency	Further actions
Risk assessment produced in conjunction with incident trends supplied by the Risk and Transfusion Department. Action plans where appropriate	Annual, but reviewed more frequently in the light of risks identified	Hospital Transfusion Committee (HTC) reviews incident trends at quarterly meetings as part of Clinical Governance process
All sample rejections recorded on the integrated pathology system and the requester is contacted where possible. Serious incidents reported to Risk Department and Serious Hazards of Transfusion (SHOT) and recorded on DATIX	Rejected samples monitored monthly Quarterly non-conformity trend analyses Quarterly review by TQM	HTC monitors trends and incidents at quarterly meetings, and reports reviewed at Transfusion Quality Meetings (TQM) Serious incidents reviewed along with investigation details, action plan and outcome. Data and findings from national audits are tabled at HTC where procedures may be reviewed
Transfusion incidents are recorded on DATIX.	Reviewed at HTT every 3 months Reviewed at HTC every 3 months Accountable to the MHRA 12 monthly	Incident findings and recommendations are tabled at HTC and Hospital Transfusion Team meetings (HTT) where procedures may be reviewed and action plans developed. Non-compliance, along with associated investigation, action and outcome is reported to Datix, SHOT and the MHRA. Incidents are monitored and reported at the HTC every 3-4

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Monitoring requirements	Frequency	Further actions
and methodology		
		months and at 3 monthly HTT
		meeting

16. REFERENCES

<u>Joint UK Blood Transfusion and Tissue Transplantation Services Professional Advisory</u> <u>Committee (JPAC)</u>

British Society for Haematology (BSH)

Medicines and Healthcare products Regulatory Agency (MHRA)

Handbook of Transfusion Medicine (2013), 5th edition, Ed: Dr Derek Norfolk, United Kingdom Blood Services.

Serious Hazards of Transfusion (SHOT UK)

NHS Blood and Transplant (NHSBT)

The Advisory Committee on the Safety of Blood, Tissues and Organs (SaBTO)

NICE (NG24) Blood transfusion

Note: The Trust is not responsible for the content of external web sites.



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DOCUMENT PROFILE			
Reference Number	A0235		
Title	Blood Transfusion (TRPOL16)		
Category	Clinical		
Version	V11		
Issue Date	November 2024		
Review Date	November 2027		
Owning Division	Diagnostics & Specialities		
Owning Specialty	Blood Transfusion		
Associated Specialities	Enter Associated Specialities here		
For Use By	GHNHST staff, Gloucestershire Managed Services, Gloucestershire Health & Care NHS Foundation Trust, Winfield Hospital, Cheltenham Nuffield Hospital, Tetbury Hospital and Leckhampton Court Hospice.		
DDQN's	Joanne Harvey, Divisional Director for Quality & Nursing (D&S)		
Author/Reviewer	Stuart Lord, Lead Transfusion Practitioner		
Local Approval Group 1	Hospital Transfusion Committee		
Chair of Approval Group 1	Dr Sophie Scutt, Consultant Anaesthetist		
Additional Approval Group/s	N/A		
Local Approval Details (Incl. Date of approval)	Hospital Transfusion Committee		
	Date of approval: 10/09/2024		
TPAG Ratification	For Office Use Only		
Consultees	Dr Rebecca Frewin, Consultant Haematologist Dr Sophie Scutt, Consultant Anaesthetist Tracy Clarke, Blood Transfusion Laboratory Manager Donna Davis, Blood Conservation Co-ordinator Alison Eades, Haematology Countywide Laboratory Manager Dr Alex Dimambro, Consultant Gastroenterologist Dr Thomas Kus, Consultant Paediatrician Dr Leanne McDermott, Consultant in Obstetrics & Gynaecology Albert Weager, Patient Representative Julia Hande, Patient Safety & Quality Manager Dr Richard Turck, Consultant in Emergency Medicine Mr Richard Wilson, Consultant Vascular Surgeon Joanne Harvey, Divisional Director for Quality & Nursing (D&S) Samantha Timmins, PBM Practitioner (NHSBT) Monika Kiss, Matron (Winfield Hospital, Ramsay Health Care UK) Inam Raziq, IV Therapy Team Nurse (GHC trust)		
Dissemination Details	i.e., Upload to Policy Site; Policy Monthly Update; Information Campaigns, Training, Team Brief, Departmental / Divisional		



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	NHS Foundation T		
	Meeting, etc.Cascade Changes to HTC members for dissemination		
Keywords	Blood, transfusion, sample, SHOT, red cells, fresh frozen plasma, platelets, transport, components		
Equality Impact Assessment (EIA)	A0235 EIA		
Related Trust Documents	AC1 - Prescription AC2 - Requesting AC3 - Pre-Transfusion Sampling AC4 - Urgent Requests AC5 - Request for Blood Collection and Receipt AC6 - Blood Collection AC7 - Administration - Preparation AC8 - Administration - Pre-Transfusion Checks AC9 - Administration - Technical Aspects AC10 - Administration of other Blood Products AC11 - Clinical Care and Monitoring of the Patient AC12 - Recognition and Management of Transfusion Reactions AC13 - Blood Components and Patient Transfer AC14 - Major haemorrhage - Code Red Adult AC15 - Major Haemorrhage - Paediatric AC16 - Haemovigilance AC17 - Transport of Blood Components AC18 - Training requirements (including temporary/agency staff) RD1 - Policy amendment history document		
Other Relevant Documents	Pathology Sample Labelling Web Page Patients who refuse Blood and Blood Components policy Antepartum Haemorrhage guideline Postpartum Haemorrhage procedure A2301 – Peri-operative Tranexamic Acid guidelines		
External Compliance Standards and/or Legislation	Blood Safety and Quality Regulations (BSQR) Medicines and Healthcare products Regulatory Agency (MHRA)		
Relevant NICE Guidance	NICE (NG24) Blood transfusion		
Relevant Regulations	Blood Safety & Quality Regulations (2005)		
External Website	No		

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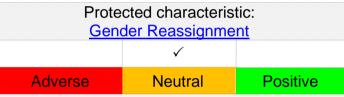


Equality Impact Assessment (EIA)

Date Completed	16/07/2024
Completed by	Stuart Lord, Lead Transfusion Practitioner



Consider people of different age groups. Think about the built environment, routines and practice.



Consider people who are transgender, or are transitioning. Think about routines, practice, communication and use of language.



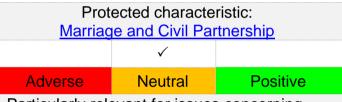
Particularly relevant in the workplace is to consider people who are pregnant or on Maternity or Adoption Leave. Think about routines, practice and opportunities.

Religion or belief/no belief ✓ Adverse Neutral Positive

Consider people who follow religious practices or traditions. This also applies to philosophical beliefs which are cogent, serious and apply to an important aspect of human life or behaviour. Think about routines, practice, dietary issues and use of language.



Consider both able and disabled people, and different types of disability. Think about accessibility of the built environment, routines, practice and communication.



Particularly relevant for issues concerning employment. Think about rules, practice, routines and use of language.

<u>Race</u>		
	✓	
Adverse	Neutral	Positive

Race can mean colour, nationality, ethnic and national origins, as well as people belonging to ethnic and racial groups. A racial group can be made up of two or more distinct racial groups e.g., British Jews; Romany Gypsies; Irish Travellers. Think about routines, practice and communication.

<u>Sex</u>		
	✓	
Adverse	Neutral	Positive

Consider people who are men, women, boys and girls. Discrimination could be a one-off act or as a result of a document/rule. Think about procedures, rules, routines, language and behaviour, built environment.



Consider people who are lesbian, gay and bisexual. This also covers how people choose to express their sexual orientation, such as through their appearance or places they visit. Think about practice, the environment and use of language.

Other factors to be considered, not included as a 'Protected Characteristic'

Adverse Neutral Positive
Consider people with other differences which

Consider people with other differences which make them susceptible to discrimination e.g., socio-economic factors; gender and non-binary; marital status (such as divorced, single). Think about routines, practice, protocol, language.

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