



# Clinical Standard Operating Procedure (SOP)

**BLOOD TRANSFUSION** 

FOR STAFF All staff

**PATIENTS** All patients who may require blood component transfusion during transfer

#### Introduction

This document outlines the principles and governance associated with the carriage and administration of blood components during transfer of critically ill patients.

### **Training requirements**

All clinical team members must be up-to-date with the National Blood Transfusion Committee Requirements for Training and Assessment in Blood Transfusion 2016. Transfer Practitioners must complete the UHBW Blood Transfusion theory training. Duty Consultants must complete either their main employing Trust or UHBW mandatory training requirements.

The declaration form (Appendix A) must be completed by all team members and returned to the Retrieve Base Lead Nurse. These will be updated and reviewed annually and Retrieve can organise training for those who need to renew their competency. Completed forms will be compiled and expiry dates of training monitored by the Retrieve Support Manger.

### Requesting blood

The potential need for blood components during transfer should be discussed with the referring clinical team during the referral telephone call. If thought to be needed, the referring clinical team should organise this with their local transfusion laboratory at the earliest opportunity. The Retrieve team should be clear on what is being requested.

#### **Pre-transfer checks**

### **Blood components & transport box**

Any blood components transferred need to be carried in a validated blood transport box that is sealed and contains the relevant paperwork. The blood box should be prepared and sealed by the blood transfusion lab staff (if this is not done, the box will not be valid for sufficient duration). Once the box is opened, blood component transfusion MUST be completed within 4 hours.

Maintaining the cold chain is essential. There should be a label on the outside of the box detailing the components within and the time the box was packed and the expiry time of temperature control. If this is not visible, the box should NOT be opened, instead the referring hospital's transfusion laboratory should be contacted for clarity prior to transfer.





#### Patient and wristbands

Patient details (full name, date of birth, NHS number etc.) must be established prior to transfer. Referring hospital wristbands must be attached to the patient and checked in line with the Retrieve 'Pre-Transfer' checklist. If the carried blood components are likely to be needed (or transfusion is ongoing) on arrival at the receiving hospital the referring hospital wristbands must remain in place.

### **Transfusion during transfer**

- Only break the box seal and open it when you are going to transfuse blood components
- Document seal broken/box opening time (on blood transfusion record (Appendix 2) and on ARCEMS)
- Blood components must be prescribed on the blood transfusion record (Appendix 2) and as a fluid on ARCEMS
- Blood component unique donation number, transfusion start time and volume need to be recorded on blood transfusion record and on ARCEMS (where hospitals provide their own paper-based blood traceability form with each unit, these must also be completed)
- Blood components must be checked using the pre-transfusion checklist on the blood transfusion record
- Appropriate giving sets must be used (blood and platelet sets) and should be acquired from the referring hospital prior to transfer
- Observations including temperature should be recorded on ARCEMS at the beginning, at 15 minutes intervals and at the end of each blood component transfused.

### At receiving hospital

Blood paperwork must be completed for all blood components transfused en route. This includes;

- Blood component, unit unique donation number, date of transfusion and the time the transfusion started must be written on the blood transfusion record for each unit transfused
- The completed blood transfusion record must be added to ARCEMS via the photograph attachment function and a copy handed to the receiving hospital team along with the ARCEMS printout for inclusion in the notes.
- Blood component traceability for each unit transfused (usually via the label attached to blood bag, or a separate paper form). Each completed label/sticker/form must be returned to the receiving blood transfusion lab (see Appendix 2 page 2)
- Blood boxes, unused components (if not imminently for transfusion), and a copy of the
  completed blood transfusion record must be returned to the receiving hospital's transfusion
  laboratory as soon as possible. In the case of unused components, this must be done as a
  priority to prevent wastage

Each receiving hospital is likely to have a different setup and advice from the receiving clinical team or transfusion laboratory will be needed (see information in table on next page). Repatriation of blood boxes back to the referring hospital will be undertaken by the receiving hospital's transfusion laboratory, in line with existing processes. Original copies of traceability forms/stickers and a copy of the Retrieve transfusion record will also return to the issuing blood bank via this route.





To assist with this process, Retrieve have an aide memoire for blood transfusion in transfer (see Appendix 2). This is intended to help ensure all legal documentation is complete and shared with the accepting hospital department and transfusion laboratory as necessary. This aide memoire is laminated and available with a printed laminated copy of this SOP and the 'Blood product / component transfusion record' form in the Retrieve Primary Bag.

Following deployment, return a photocopy of the completed paperwork to the Base Lead Nurse. This is held as a back-up copy. The Retrieve Support Manger will scan a copy into the ARCEMS notes to ensure a clear document is available.

As return of traceability paperwork to the issuing lab along with the transfer blood boxes can take time, issuing transfusion labs in referring hospitals may need to contact Retrieve for electronic copies so that transfused units can be properly and promptly accounted for. The Retrieve Support Manager will be contacted as necessary via <a href="retrieve.transfer@nhs.net">retrieve.transfer@nhs.net</a> and, if adequate information is provided (referring hospital, date and approximate time of issue), they should be able to identify the ARCEMS record for the transfer. Electronic copies of the paperwork can then be returned via email (only to nhs.uk or nhs.net accounts). If it proves difficult for the Retrieve Support Manager to accurately establish which transfer involved the transfusion, the on-duty Retrieve teams can be asked to interrogate ARCEMS for further assistance.

	Transfusion laboratory	Instructions		
North Bristol NHS Trust	0117 4148350 Bleep: 9433	The transfusion laboratory will organise collection from the receiving clinical area.		
	•	• It is Trust policy that blood components received from another hospital must not be transfused within Southmead and unused components returned to the transfusion laboratory as soon as possible.		
University Hospitals Bristol NHS Foundation Trust (BRI)	0117 342 5579/5529	<ul> <li>The transfusion laboratory should be contacted as soon as possible if ongoing blood support is required. Unused units must be returned to the transfusion laboratory as soon as possible on arrival by the clinical area.</li> </ul>		
University Hospitals Plymouth NHS Trust (Derriford)	01752 452465 Bleep 0871	<ul> <li>If the patient does not require the transferr blood products within 15 minutes of arrival, t products must be returned to Derriford Hospi Blood bank.</li> </ul>		
	Transfusion Practitioners: 01752 431487 Bleep 0604/0909	<ul> <li>Do not place the transferred blood into the blood fridge, but ensure that they are delivered in the transfer box to a member of the blood bank team.</li> </ul>		

### Continuation of transfusion started prior to Retrieve's arrival

There may be circumstances when Retrieve are not present when a blood component is first checked and started but it is to continue during transfer. Documentation on ARCEMS should be clear that the transfusion was started prior to transfer and Retrieve involvement with the patient. In these circumstances the following process should be followed.

• Document blood component, unit unique donation number, date of transfusion, the time the transfusion started (non-Retrieve) and volume within the ARCEMS record





- Observations including temperature should be recorded on ARCEMS at 15 minutes intervals and at the end of the blood component transfusion.
- Blood components must be prescribed as a fluid on ARCEMS, like any other drug infusion continued in transfer.
- Blood traceability tags or forms should be managed according to the process of the issuing transfusion lab. In most cases, this will involve the tracing form going with Retrieve so that the time the transfusion is complete can be documented on the form. If in doubt, the issuing lab should be contacted prior to departure, for instructions.

# **Document Change Control**

Date of Version	Version Number	Lead for Revisions	Type of Revision	Description of Revision
06/24	V1.8	Deputy Clinical Director	Minor	Clarification around how to process traceability forms

#### **Document Governance**

REFERENCES	UHBW Blood and Blood Component Transfusion Policy
RELATED DOCUMENTS AND PAGES	Retrieve Pre-Transfer checklist
AUTHORISING BODY	UHBW Hospital Transfusion Committee
SAFETY	Blood Component traceability is a legal requirement and the processes described in this document must be followed by Retrieve clinical team members
QUERIES AND CONTACT	Retrieve Leadership Team

Hosted by:





### **Appendix 1 – Transfusion competency and records**

The blood transfusion competency form will be held electronically by the Base Lead Nurses.

The blood component transfusion record is available in paper format to each transfer team and must be photographed and inserted into the ARCEMS record as well as copies given to receiving hospitals.





# **BLOOD TRANSFUSION COMPETENCY DECLARATION**

ent.
•••

# RETRIEVE BLOOD COMPONENT TRANSFUSION RECORD

All parts of this form must be completed in full and retained in the patient's notes

Hosted by:





Patient Demographics: Affix patient address	ssograph In	ndication for T	ransfusion:				
Surname:							
First Name(s):							
NHS No:	Li	Likely diagnosis of major haemorrhage:					
Referring hospital MRN:							
DOB:							
Patient Information and Verbal Consent							
This patient has verbally agreed to transf risks/benefits, possible alternatives and w					n for this,		
<ul> <li>This patient has not provided consent be appropriate) and must be informed of the</li> </ul>	cause they are	e UNCONSCI	OUS / LACKS		delete as		
Print name:	•		•	)ate:			
Prescription							
I confirm that in my professional opinion this tra	nsfusion is clin	nically indicated	d:				
· · · · · · · · · · · · · · · · · · ·	al requirements instructions	Rate		escribing Doctor			
			, v	<u> </u>	,		
		Unit 1	Unit 2	Unit 3	Unit 4		
Paperwork Checks - Patient ID on this record matches patient ID	) hand			_			
- Indication and consent for transfusion docu							
- Prescription checked		_					
Blood Unit Checks	/ l	_	_	_	_		
- Expiry date and visual check (leaks / clots / colour)							
<ul> <li>Blood group and donation number identical on blood unit and blood compatibility label</li> </ul>				ū	<b>u</b>		
- Special requirements checked							
Patient Details Checks - Patient ID matches on ID band and blood compatibility label (and verbally where possible)		-			0		
Observations - Record before transfusion, at 15 minutes &	at the end	0	_				

RETRIEVE BLOOD PRODUCT TRANSFUSION RECORD

Author(s): Retrieve Leadership Team

Hosted by:





RECORD OF ADMINISTRATION f	RATION for	ADMINISTR	RD OF	RECOR
----------------------------	------------	-----------	-------	-------

NHS Number	
Referring hospital MRN	

**It is a legal requirement** for the receiving hospital's transfusion laboratory to be provided with evidence of transfusion for each blood component transfused.

All traceability labels / stickers from transfused blood units must be completed and sent to the receiving hospital's blood transfusion laboratory along with a copy of this completed form.

The original record should remain with the patient for retention in clinical notes.

To be completed for ALL blood component transfusions:

Time blood transfer box opened: RBC FFP Other:	
--	--

Blood Unit Details	Checked and administered by (print name and sign)	Date	Time	Volume transfused (ml)
Component:			Started:	
Donation number:				
			Ended:	
Component:			Started:	
Donation number:				
			Ended:	
Component:			Started:	
Donation number:				
			Ended:	
Component:			Started:	
Donation number:				
			Ended:	
Component:			Started:	
Donation number:				
			Ended:	
Component:			Started:	
Donation number:				
			Started:	

**Appendix 2 – Checklist for transfusion in transfer** 





Referral	Order component(s) to be available on arrival in a transport box	
At referring	Collect transport box	
hospital	Check patient has 2 wristbands	
	Document transport box seal broken/box opening time • ARCEMS	
	Blood component paperwork	
	Complete blood component paperwork and checklist	
	For each unit:	
	Checklist complete	
	Traceability label	
	Prescribe blood component	
	• ARCEMS	
	Blood component paperwork	
Transfusion	Document unique donation number	
during transfer	• ARCEMS	
daming manoro.	Blood component paperwork	
	Document unit start and finish times	
	• ARCEMS	
	Blood component paperwork	
	Document volume (ml)	
	• ARCEMS	
	Blood component paperwork	
	Document observations on ARCEMS for each unit	
	Beginning of transfusion	
	• Every 15mins	
	End of transfusion	
	Check all paperwork complete	
	Photocopy blood component paperwork x 2	
	Attach photograph blood component paperwork to ARCEMS PRF	
At receiving	Leave printed PRF and a copy of blood component paperwork with the bedside team	
hospital	Leave empty blood component bags at patient bedside	
	Return to transfusion lab (usually with porters):	
	Transport box and unused components	
	Original paperwork with traceability labels	
	Return copy of paperwork to Base Lead Nurse	