WI-00635 Version: 10

Purpose

This Work Instruction (WI) describes the process to:

- Provide information on the shipper packing configuration used by Lifeblood to transport blood products and actions you should take on receipt of a shipper from Lifeblood.
- Provide instructions to non-Lifeblood institutions that use Lifeblood shippers for their own purpose either internally or externally.

Disclaimer

This document shows the packing configurations used by Lifeblood staff when packing Lifeblood shippers for transporting blood products to customers (Approved Health Providers). While Lifeblood considers that these procedures are appropriate for its own purposes, Lifeblood does not acknowledge, or have control of the particular circumstances of Approved Health Providers

Your attention is drawn to the following;

- Customers must consider the transport requirements of Blood Products, the transport mechanism and environmental aspects in determining the appropriate packing configurations.
- Customers should note that Lifeblood strongly recommends the use of temperature recording data loggers for transportation over long distances and/or where extended transit times may be experienced, as the shippers are only validated for the transport of blood products over distances or timeframes according to Lifeblood specifications contained herein.

Lifeblood cannot accept responsibility for the viability of blood products transported in a Lifeblood shipper that was not packed by Lifeblood staff.

Parent procedure

This WI forms part of the procedure described in Issuing and Packing components and Products (SOP-00326).

Before you begin

N/A

1. Receipt of shippers

The Lifeblood National Shipper Configurations ensure that blood and blood products remain within the required temperature specification during transportation. There are several packing options, the use of which will depend on:

- The component or product type
- The ambient temperature
- The number of components or products
- · The anticipated transit time

Please ensure all shipments received from Lifeblood meet the criteria stated below.

If	then
The shipper or bag appears to have been tampered with	 quarantine the units contact your nearest Lifeblood Customer Service Department as soon as possible.

WI-006	35	•
Version:	10)

If	then
the shipper configuration does not meet the packing criteria	 take a manual surface temperature of the contents by placing a thermometer between two units and leave for 2 to 5 minutes to allow the temperature to stabilise quarantine the units
	 contact your nearest Lifeblood Customer Service Department as soon as possible.

2. Preparation of shippers

Always check that the shippers are clean, inside and out, before use. Where there are any visible signs of damage or contamination with blood residue, the packing material is to be discarded. Deface and/or remove all old labels on the outer carton prior to discard.

2.1 Material required for shipper use

Red cell shipper configurations

- Lifeblood insulated shipper (with foam inserts)
- Sancell/Lifeblood chilled ballast packs (conditioned at +2°C to +6°C for 24hrs prior to use)
- Sancell/Lifeblood frozen ballast packs (conditioned at approximately -19°C for 48hrs prior to use)
- Plastic liner bag
- Foil pouch
- Cardboard dividers with holes
- Data Loggers (data loggers for customer's own use to be supplied by customer)

Platelet shipper configurations

- Lifeblood insulated shipper (with foam inserts)
- Sancell/Lifeblood room temperature ballast packs (conditioned at +20°C to +24°C for 24hrs prior to use)
- Plastic liner bag
- Foil pouch
- Data Loggers (data loggers for customer's own use to be supplied by customer)

Clinical Fresh Frozen Plasma (cFFP) Shipper Configurations

- Lifeblood insulated shipper (with foam inserts)
- Sancell/Lifeblood frozen ballast packs (conditioned at approximately -40°C for 48hrs prior to use)
- Plastic liner bag
- Foil pouch
- Data Loggers (data loggers for customer's own use to be supplied by customer)
- Dry ice

WI-00635 Version: 10

Manufactured Product Shipper Configurations

- GCCS (TPC-15) insulated shipper (with foam inserts)
- GCCS (VH-7) insulated shipper (with foam inserts)
- GCCS (TPC-15) chilled ballasts (conditioned at +2°C to +6°C for 48hrs prior to use)
- GCCS (VH-7) chilled ballasts (conditioned at +2°C to +6°C for 48hrs prior to use)
- GCCS (TPC-15) frozen ballasts (conditioned at approximately -19°C for 48hrs prior to use)
- GCCS (VH-7) frozen ballasts (conditioned at approximately -19°C for 48hrs prior to use)
- Cardboard Collar
- Corflute separator
- Bubble wrap
- Lifeblood insulated shipper (with foam inserts)
- Sancell/Lifeblood chilled ballast packs (conditioned at +2°C to +6°C for 24hrs prior to use)
- Sancell/Lifeblood frozen ballast packs (conditioned at approximately -19°C for 48hrs prior to use)
- Plastic liner bag
- Foil pouch
- Cardboard dividers with holes
- Data Loggers (data loggers for customer's own use to be supplied by customer)

NOTE: Please refer to Appendix A for supplier details

2.2 Storage of ballast material

Store ballast packs under the relevant conditions for the minimum time as described below.

Table 1. Pre-conditioning and storage times for ballast packs.

Ballast type	Pre-conditioned temperature	Minimum time	Packing configurations
Sancell/Lifeblood Room temperature	+20°C to +24°C	24 hours	P1, P2
Sancell/Lifeblood Chilled	Approximately +4°C	24 hours	R1, R2, R3, R4, N2, Lifeblood Transport Shipper for Evogam
GCCS Chilled	Approximately +4°C	48 hours	TPC-15, VH-7
Sancell/Lifeblood Frozen -19°C	Approximately -19°C (Domestic freezer)	48 hours	R1, R4, N2, Lifeblood Transport Shipper for Evogam
GCCS Frozen	Approximately -19°C (Domestic freezer)	48 hours	TPC-15, VH-7
Sancell/Lifeblood Frozen -40°C	Approximately -40°C	24 hours	F1

Note: Where the use of a data logger is necessary, the data logger should be conditioned for the temperature range required in accordance with manufacturer's instructions.

Failure to condition ballast packs appropriately may adversely affect internal shipper temperature.

2.3 Ambient temperature range

All configurations herein were validated using an external ambient temperature range of +4°C to +42°C.

WI-00635 Version: 10

3. Red cells

Red cell components should be transported using Packing Configurations R1, R2, R3 or R4; the choice of which will depend on the anticipated transport time. If the transport time is estimated to approach or exceed the Validated Transport Time (VTT) shown below, or if product is transported by independent courier (e.g. bus or aircraft), a data logger must be included.

Configurations R1, R2, R3 and R4 are designed to maintain the components within a temperature range of 2°C to 10°C as recommended in the Council of Europe "Guide to the Preparation, Use and Quality Assurance of Blood Components", 14th edition.

Table 2 - Packing configurations and the validated transport time.

Packing Configuration	No. of components per shipper	Validated Transport time (VTT)		
R1	1 to 10 red cells	6 hours**		
IXI	1 to 10 fed cells	Do not use for air transit		
R2	1 to 12 red cells	3 hours 25 mins*		
R3	1 to 14 red cells	8 hours 25 mins*		
R4	1 to 10 red cells	16 hours 18 mins*		

^{*} If anticipated transport time exceeds the maximum VTT, a data logger must be placed in the shipper between the components

All configurations require a specific number of units to maintain temperature. Where fewer red cell units are to be packed, the specified number of chilled ballast packs (approximately +4°C) must be added. The correct number of ballast packs for each configuration is shown in the packing diagrams below.

The ballast packs should be placed outside the plastic liner to prevent contamination of the red cells, should the ballast packs leak.

^{**}The R1 shipper configuration cannot be used for anticipated transport times exceeding its VTT of 6 hours.

		Capacity	Validated Transport Time	Legend	Name	Quantity		Note
R1		1 to 10 red cell units	6 hours		Foil pouch	1	Used to other ite	line box and contains all
	_		Frozen -19°C ballast			2	Place or	top inside foil pouch
		Lifeblood Large	Shipper		Chilled ballast	2		
					Cardboard divider	1		a barrier to maintain temperature
					Extra chilled ballast	Number of runits		Number of additional ballast packs
				(as per table)	4 to 10		0	
		THE WAR THE			Place ballast outside the plastic liner bag,	3		1
						2		2
				cardboard dividers	1		3	
						1 to 3 paediatric units		4
				Plastic liner bag	1	Used to	contain red cells	
				Cardboard divider	1		a barrier to maintain temperature	
					Chilled ballast	2		
					Frozen -19°C ballast	2	Place or	bottom inside foil pouch
Notes			transported by air. used where the anticipated trans	sport time exceeds 6	hours.		•	

Template: Work Instruction v2

Effective date: 21/11/2022

		Capacity	Validated Transport Time#	Legend	Name	Quantity		Note
R2		1 to 12 red cell units	3 hours 25 minutes		Chilled ballast	2		
	Lifeblood Large Shipper				Extra chilled ballast (as per table)	Number of red cell units		Number of additional ballast packs
					Place ballast outside the plastic liner bag	1 to 12 1 to 3 paediatric units		4
					Plastic liner bag and product	1	Used to logger if	contain red cells and added
					Chilled ballast	2		
Notes		# If anticipated transpo	rt time exceeds the maximum tra	ansport time a data l	ogger must be placed in w	rith the shipment		

WI-00635 Version: 10

	Capacity	Validated Transport Time#	Legend	Name	Quantity		Note
R3	1 to 14 red cell un	1 to 14 red cell units 8 hours 25 minutes Foil pouch					line box and contains all ms
				Chilled ballast	4	Inside fo	il pouch, 2 layers of 2
	Lifeblood La	arge Shipper			Number of i		Number of additional ballast packs
					12 to 1	4	0
				11			1
			Extra chilled ballast (as per table)	901		2	
					7 or 8		3
				Place ballast outside the plastic liner bag	5 or 6		4
					e plastic liner bag 3 or		5
	Maria Maria				2		6
					1		7
					1 to 3 paediatric units		7
				Plastic liner bag and product	1	Used to logger if	contain red cells and added
				Chilled ballast	4	Inside fo	il pouch, 2 layers of 2
Notes	# If anticipated tran	l nsport time exceeds the maximum tra	ansport time a data	l logger must be placed in w	l vith the shipment		

		Capacity	Validated Transport Time#	Legend	Name	Quantity		Note
R4		1 to 10 red cell units	16 hours 18 minutes		Foil pouch	1	Used to other ite	line box and contains all
					Frozen -19°C ballast	2	Place o	n top inside foil pouch
					Chilled ballast	2		
	\angle	Lifeblood Large	Shipper		Cardboard divider	1		a barrier to maintain temperature
						Number of re units	ed cell	Number of additional ballast packs
	6					10		0
				Extra chilled ballast (as per table)	st 9		1	
					7 or 8		2	
				the plastic li between the	Place ballast outside the plastic liner bag, between the cardboard dividers	5 or 6		3
						3 o 4		4
						2		5
						1		6
						1 to 3 paediatric units		6
					Plastic liner bag and product	1	Used to logger if	contain red cells and added
					Cardboard divider	1		a barrier to maintain temperature
					Chilled ballast	2		
					Frozen -19°C ballast	2	Place o	n bottom inside foil pouch
Notes		# If anticipated transport	time exceeds the maximum transpo	rt time a data logger n	nust be placed in with the ship	ment	ı	

WI-00635 Version: 10

4. Platelets

Platelet components should be transported using either Packing Configuration P1 or P2, the choice of which will depend on the anticipated transport time. If the transport time is estimated to approach or exceed the validated time shown below, or if product is transported by independent couriers (e.g. bus or aircraft) a data logger must be included.

Configuration P1 and P2 are designed to maintain the components within a temperature range of 20°C to 24°C as recommended in the Council of Europe "Guide to the Preparation, Use and Quality Assurance of Blood Components" 14th edition.

Table 3 - Packing configurations and the validated transport time.

Packing Configuration	No. of components per shipper	Validated Transport time (VTT)		
P1	1 to 7 pooled platelets1 to 8 apheresis platelets1 to 16 paediatric platelets	4 hours 43 mins*		
P2	1 to 7 pooled platelets1 to 8 apheresis platelets1 to 16 paediatric platelets	7 hours 38 mins*		

^{*} If anticipated transport time exceeds the maximum VTT, a data logger must be placed in the shipper between the components

Both configurations require a specific number of units to maintain temperature. Where fewer platelet units are to be packed, the specified number of room temperature (+20 °C to +24 °C) ballast packs must be added. The correct number of ballast packs for each configuration is shown in the packing diagrams below. The ballast packs should be placed outside the plastic liner to prevent contamination of the platelet units, should the ballast packs leak.

	Capacity	Validated Transport Time#	Legend	Name	Quantity		Note		
P1	1 to 7 pooled platelets 1 to 8 apheresis platelets 1 to 16 paediatric platelets	4 hours 43 minutes		Room temperature ballast 20°C to 24°C	2				
	Lifeblood Large Sh	nipper			Number of pla	ntelet units	Number of additional ballast packs		
				Extra room temperature ballast (as per table)	4 to 8 apheresis 4 to 7 pooled	Mixed total of 7	0		
					3		1		
				Place ballast outside the plastic liner bag	2		2		
	I Mail		the plastic inici bag	1		3			
					1 to 16 paediatric units		4		
				Plastic liner bag and product	1	Used to cor and logger	ntain platelets if added		
				Room temperature ballast 20°C to 24°C	2				
Notes	# If anticipated transport time	exceeds the maximum transpor	rt time a data logg	er must be placed in with t	he shipment	1			

	Capacity	Validated Transport Time#	Legend	Name	Quantity		Note
P2	1 to 6 pooled platelets 1 to 8 apheresis platelets 1 to 16 paediatric platelets	7 hours 38 minutes		Room temperature ballasts 20°C to 24°C	4		
				Foil Pouch	1		atelets, data additional ballast quired).
	ifeblood Large Shipper	2 room tomp		Room temperature ballasts 20°C to 24°C	6		ng each of the and 1 at each f box
	2 room temp ballasts on both long sides of shipper			Extra room temperature ballast	Number of platelet units		Number of additional ballast packs
	1.5.1	shipper	(as per table) Place ballast outside the plastic liner bag	2 to 8 apheresis 2 to 6 pooled	Mixed total of 7	0	
	B 14 .5				1		1
					1 to 16 paediatric units		4
				Plastic liner bag and product	1	Used to cor logger if add	ntain platelets and ded
				Room temperature ballasts 20°C to 24°C	4		
Notes	Notes # If anticipated transport time exceeds the maximum transport time a data logger must be placed in with the shipment						

WI-00635 Version: 10

5. Frozen components (plasma and cryoprecipitate)

The F2 Shipper configuration is used by Lifeblood for routine transport of frozen components. There are specific steps that must be taken when transporting shippers containing dry ice by road. Please refer to Appendix B for further information.

The F1 shipper configuration is available to use in the event that no dry ice is available, however it is not recommended for routine transport. If the use of this configuration is required, a data logger must be included in the shipment.

Configuration F1 and F2 are designed to maintain components at -25 °C as recommended in the Council of Europe "Guide to the Preparation, Use and Quality Assurance of Blood Components" 14th edition.

Table 3 - Packing configurations and the validated transport time.

Packing Configuration	No. of components per shipper	Validated Transport time (VTT)
F4	1 to 5 Whole Blood or Apheresis cFFP	45 minutes*
F1	5 to 25 Cryoprecipitate	N/A**
	1 to 5 Cryoprecipitate WB	17 hours 50 minutes*
F2	1 to 3 Cryodepleted APH 750ml	19 hours*
	1 to 6 Cryoprecipitate APH	17 hours 50 minutes*
	1 to 6 WB cFFP or APH cFFP	20 hours 40 minutes*

^{*} If anticipated transport time exceeds the maximum VTT, a data logger must be placed in the shipper between the components

^{**}Use of the F1 configuration is not recommended for the routine transport of cryoprecipitate. If use of this configuration is required for this product, a data logger must be included in all shipments.

WI-00635 Version: 10

Lifeblood Shippers - Receipt and Use by External Institutions

	Capacity	Validated Transport Time	Legend	Nan	ne	Quantity	Note
F1	See t	able insert on right		Foil pouch		1	Used to line box and contains all other items
	Lifeblood La	rge Shipper		Frozen -40°	C ballast	2	Place inside foil pouch – face down
			Compor	nent	Min	Max	Validated Transport Time*
		WB or Apheresis	cFFP	1	5	45 minutes*	
		Cryoprecipitate		5	25	N/A**	
			Pio Pio	Plastic line	r bag and	1	Used to contain frozen components and logger if added
				Frozen -40°	C ballast	2	Place on bottom
Notes	Notes *This configuration is only to be used as a contingency when there is no dry ice available. A data logger must be included in all shipments. **Use of the F1 configuration is not recommended for the routine transport of cryoprecipitate.						

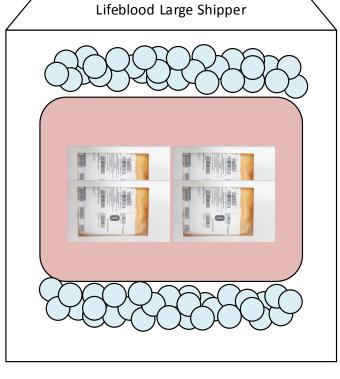
Template: Work Instruction v2

Effective date: 21/11/2022

WI-00635 Version: 10

Lifeblood Shippers - Receipt and Use by External Institutions

	Capacity	Validated Transport Time	Legend	Name	(Quantity	Note
2	See table ins	ert on right	C26C	Dry ice		1.8 Kg	On top plastic liner bag
	Lifeblood Large Shi	ipper	Comp	onents	Min	Max	Validated Transport Time#
			Cryoprecipitate W (1-5 per cardboar		1	20	17 hours and 50 minutes
		'					



Components	Min	Max	Validated Transport Time#
Cryoprecipitate WB (1-5 per cardboard box)	1	20	17 hours and 50 minutes
Cryodepleted APH 750ml (no packaging)	1	3	19 hours
Cryoprecipitate APH (1 per cardboard box)	1	6	17 hours and 50 minutes
WB cFFP or APH cFFP (1 per cardboard box & vacuum sealed)	1	6	20 hours and 40 minutes

Mixing Components:

Any combination of components up to six boxes total can be mixed. The component in a mixed shipper with the shortest validated transport time (VTT) dictates the VTT that should be used for that shipper.

	Plastic liner bag and product	1	Used to contain frozen components and logger if added
6999	Dry ice	1.8 Kg	At bottom of shipper

Notes

If anticipated transport time exceeds the maximum transport time a data logger must be placed in with the shipment.

WI-00635 Version: 10

6. Manufactured products

The shipper configurations below are designed to maintain the temperatures required for various Manufactured Products as per the manufacturer's advice.

Table 4 - Shipper configurations, temperatures, and validated transport times

Configuration	Temperature range	Validated transport time
GCCS (TPC-15)	2°C to 8°C	24 hours
GCCS (VH-7)	2°C to 8°C	18 hours 5 minutes
N2	2°C to 11°C	19 hours
Lifeblood Transport Shipper for Evogam	2°C to 25°C	1 to 7 vials: 1 hour 40 mins 8 vials: 2 hours 40 mins

Template: Work Instruction v2 Effective date: 21/11/2022

Page 15 of 22

	Capacity	Validated Transport Time	Legend	Name	Quantity	Note
N2	Evogam only: 1 to 13 vials	19 hours		Frozen -19°C ballast	2	Outside of foil pouch
	GCCS large shipper			Corflute separator	1	Used as a barrier to maintain temperature
	GCC3 lai ge silippei			Chilled ballast	2	Outside of foil pouch
				Foil Pouch	1	Used for additional insulation. Contains product and chilled ballasts as below.
	1 chilled ballast placed on each side of shipper in foil pouch			Chilled ballast	8	Positioned inside the foil pouch to make a "pocket": • 2 on top of liner/product • 4 placed with one on each side of shipper • 2 under the liner/product
				Plastic liner bag and product	1	Used to contain products and logger
				Chilled ballast	2	Outside of foil pouch
Only used to transport Evogam Uses GCCS large shipper and Lifeblood ballasts A data logger must be included in all shipments using this configuration.						

	Capacity	Validated Transport Time	Legend	Name	Quantity	Note
LB for Evogam*	Evogam only: 1 to 8 vials	1 to 7 vials: 1 hour 40 mins 8 vials: 2 hours 40 mins		Frozen -19°C ballast	2	
	Lifeblood Lar	rge shipper		Cardboard divider	1	Used as a barrier to prevent product getting too cold
				Chilled ballast	2	
				Bubble wrap	1	Used as additional insulation and to prevent movement of product
	VECUSIONO DEL SERCIO CONTROLO DEL SERCIO CONTROLO DEL SERCIO CONTROLO CONTR	MADE AND PROCESS OF THE STATE O	TOTAL STATE OF THE PARTY OF THE	Plastic liner bag and product	1	Used to contain products and data logger
				Chilled ballast	2	
			· · · · · · · · · · · · · · · · · · ·	Bubble wrap	1	Used as additional insulation

Notes

- *Full name: Lifeblood Transport Shipper Configuration for Evogam
- Only used to transport Evogam
- This configuration is not recommended for the routine transport of Evogam
- A data logger must be included in **all** shipments.

	Temperature	Validated Transport Time	Legend	Name	Quantity	Note
TPC-15	TPC-15 2°C to 8°C 24 hours			GCCS large frozen ballast -19°C	1	
				GCCS large chilled ballast	1	
	GCCS Large ship	pper	a	Corflute separator	1	Used as a barrier to maintain temperature
			Cardboard collar	1	Used as additional insulation	
			· · · · · · · · · · · · · · · · · · ·	Bubble wrap	1	Used as insulation and to prevent movement of product
OCIOGOM OCIOCOM OCIOCO			Plastic liner bag and product	1	Used to contain products and data logger	
			277777777	Bubble wrap – wrapped from below product	1	Used as insulation and to prevent movement of product
			a	Corflute separator	1	Used as a barrier to maintain temperature
				GCCS large chilled ballast	1	
				GCCS large frozen ballast -19°C	1	
Notes • A data logger must be included in all shipments using this configuration.						

	Temperature	Validated Transport Time #	Legend	Name	Quantity	Note	
VH-7	2°C to 8°C	18 hours 5 minutes		GCCS small frozen ballast -19°C	1		
	GCCS Small ship	pper		GCCS small chilled ballast	1		
			~/////////////////////////////////////	Bubble wrap	1	Used as additional insulation and to prevent movement of product	
	Collaguar ochanical state ocha	October 1997 Octob		Plastic liner bag and product	1	Used to contain products and data logger if added	
	100 × 1000		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Bubble wrap	1	Used as additional insulation and to prevent movement of product	
				GCCS small chilled ballast	1		
Notes	Notes # If anticipated transport time exceeds the validated transport time, a data logger must be placed in with the shipment.						

WI-00635 Version: 10

Appendix A: Details of suppliers of shipper consumables

Item	Company	Phone
Plastic bags (shipper liners)	Valpak	(02) 9984 0777
Shipper carton (outer cardboard box)	OJI Fibre Solutions	(02) 9724 8408
Shipper divider	OJI Fibre Solutions	(02) 9724 8408
Foil bags	Qualtape Australia	(03) 9729 8401
Polystyrene (foam) inserts	R Max Rigid Cellular Plastics	(02) 9609 6088
Ballast pack with bubble wrap on one side	Sancell Pty Ltd	(03) 8796 5555
TempTale data logger	Sensitech	(03) 9686 5622
GCCS TPC-15 shipper (outer and foam inner)	Global Cold Chain Solutions	(03) 9330 3603
GCCS VH-7 shipper (outer and foam inner)		
GCCS TPC-15 ballast		
GCCS VH-7 ballast		
Corflute Separators		
Cardboard collar		

Appendix B: Transport of blood products using dry ice

The use of couriers must be taken into consideration as the use of dry ice in transporting items by vehicle can be hazardous to the driver, who may be unaware of the potential risk of exposure to CO2 gas. Drivers need to be aware of the hazards and what to do in an emergency.

Below are two references which may be helpful for formulating policies and procedures.

- www.iata.org
- Technical Manual American Association of Blood Banks (AABB), 14th edition, pg 659

WI-00635 Version: 10

Definitions

Term/abbreviation	Definition
Ballast pack	Sancell/Lifeblood gel pack that is preconditioned to maintain temperature for the transportation of blood products. Extra ballast packs (in excess of the base number of ballast required for a configuration) are added to provide temperature stability during transportation.
GCCS ballast	Hard plastic brick containing blue phase change fluid preconditioned to maintain temperature for the transportation of blood products. There are two sizes: VH-7 ballasts are smaller. TPC-15 are larger.
Blood products	The result of a procedure in which blood is withdrawn from a donor, separated into individual components e.g. platelets and/or retained as individual products for transfusion/fractionation. And/or products manufactured from plasma, such as immunoglobulins.
VTT	Validated transport time

Referenced external documents

N/A

Referenced internal documents

Document number	Document title	
SOP-00326	Issuing and Packing Components and Products	

Change history

Version number	Effective date	Reference	Summary of change
-	-	-	For previous change history contact National Document Control.
5	24/05/2021	CCR-20-000805	TempTale data logger supplier details added
6	12/07/2021	-	Minor grammatical changes to align with corresponding PPM configurations
		CCR-20-000781	Update validated transport times for R1, R2, R3, P1, P2 Update unit and ballast numbers for R1, R3. Remove R4 configuration.
7	16/07/2021	CCR-21-000600	Reinstate R4 configuration Updated R1 shipper to have VTT of 6 hours and not to be used for air travel
8	20/07/2021	CCR-21-000600	R4 – add '1' to number of red cell units.

Template: Work Instruction v2 Effective date: 21/11/2022

Page 21 of 22

WI-006	35
Version:	10

Version number	Effective date	Reference	Summary of change
9	11/10/2021	CCR-21-000380	Validation transport time table updated to remove option of packing WB cryoprecipitate, include the validated transport time when 1-4 units are sent and provide instruction for mixing components.
		N/A	R4 - Rh red cell removed as this was added to v4 in error. P2 - clarified note for foil pouch and corrected spelling error
10	Refer to footer	N/A	 Add frozen ballasts and dry ice to cFFP consumables. New look diagrams. Frozen components summary table added. Update that F1 always requires logger, to align with WI-00325.
		CCR-21-000380	PIR - Updates to F2 capacity.
		CCR-21-000903	Remove logger use from R1.
		CCR-22-000685	Include manufactured product shipper consumables and validated configurations.

Electronic signature

Author	NANCY KAY (nxkay)	
Approver(s)	TERRY JONES (tjones)	
Final Approver	r MELANIE MADDOCK (mmaddock)	
Owner MELANIE MADDOCK (mmaddock)		