

Operational Verification Protocol:

Verification Purpose:

To check that the process undertaken by the facility to redistribute or transfer blood components and products meets expected outcomes and requirements for shipping blood components and products outside the facility prior to implementation of the process.

Background: The Provincial Redistribution program facilitated by the Ontario Regional Blood Coordinating Network (ORBCON) and the Factor Concentrate Redistribution Program (FCRP) and utilized by Ontario hospitals has been instrumental in reducing the overall number of components and products that outdate in Ontario hospitals each year. The process for redistributing blood components and products were evaluated by a provincial working group to standardize procedures to ensure the security and safety of the redistributed components and products are maintained during any shipment. Validated shipping containers and standardized operating procedure templates were developed for hospitals that utilize the redistribution program to ship components and products outside of their facility.

J82, E38 and Credo EMT shipping containers for the purposes of shipping components and products for redistribution or patient transfers have been validated provincially. Validation revealed that pre-conditioning of the ice-packs and gel packs as prescribed in the validation report can maintain acceptable shipping temperatures for a prescribed amount of time. The validation report is available on www.transfusionontario.org.

Verification:

Validation Requirements	Purpose	Expected Outcome	Reported Outcome
Geographical	Validation should be performed	<suggest furthest="" or<="" shipping="" site="" td="" the=""><td></td></suggest>	
Coverage	with a site where all variables	longest transit time from the receiving	
	affecting validation may be	site should be selected as the pilot	
	encountered.	shipping site.>	
Seasonal	Validation should identify what	<transportation arise="" in<="" p="" situations=""></transportation>	
Coverage	time of year the validation is	both cold and warmer temperatures.	
	taking place. It is recommended	Testing logistics in both situations	
	that Operational validation	gives confidence that the process can	
	should take place when the	withstand temperature fluctuations.>	
	extreme stresses can be		
	encountered, i.e. extreme cold		
	(winter season) and extreme heat		
	(summer season).		



Timelines	Verification Plan should include target completion dates for: - courier service agreements - operating procedures - training - Start and completion of verification.	< Timelines should be established by all participating parties, to ensure that the decided dates will be achievable.>	
Evaluators	Provides a list of people involved with the validation process, including testers, quality assurance and Medical Director. This should also include a brief description of roles and responsibilities for the validation.	 Testers should be the staff members that have been identified as shipping or receiving the payloads and completes the User Evaluation Form Quality Assurance individual should devise the verification plan, analyse the data and make the recommendation to implement the process. Medical Director should review the validation plan prior to executing, and then have final review and sign off of the completed validation report. 	
Verification Criteria	Will establish the parameters needed for acceptance of the process for facilities and users. Methods of measuring these parameters should be identified	 All packing configurations were adhered to All shipments were completed within allowable time limits The shipping containers were intact after all shipments All shipped units have acceptable visual appearance on receipt All shipped units were maintained at acceptable shipping temperature during transit 	



Verification Procedure	This should establish the protocol to be used for the validation (i.e. number of tests and runs). Each set of tests should be defined.		h set of tests	PAYLOAD Minimum Minimum Minimum Maximum Maximum Maximum Maximum
Validation Analysis	All parameters defined in the validation criteria shall be checked and compared with expected results, looking for compliance or deviations whose causes have to be determined, proposing the corresponding corrective actions achieve expected result.	 Review deviation / incident Reports Evidence that container maintained acceptable temperature through the redistribution process. Results table (example #1 shown below) Evidence that all units were traceable and trackable at all times. 		
Final Operational Report	Accepted results and reported deviations should be summarized in a document that is made available to all that will be participating in the process to provide confidence the process has been endorsed.	do Sul col Sul fee do Re au		iations and s.

Verification Team Performance Qualification Approval:



Results:

Test 1: Minimum payload (Circle appropriate choice)

	Rui	n 1	Rui	n 2	Rui	n 3
Date						
Origin						
Destination						
Ambient Temp						
Transit time						
Condition of	Yes	No	Yes	No	Yes	No
shipping container						
on receipt OK						
Visual inspection of	Yes	No	Yes	No	Yes	No
RBCs on receipt OK						
Temperature of						
RBCs on receipt						
Temperature X-XºC	Yes	No	Yes	No	Yes	No
throughout						
shipment						
Documentation	Yes	No	Yes	No	Yes	No
complete and						
accurate						
Protocol deviations	Yes	No	Yes	No	Yes	No
(attach deviation						
report):						

Test 2: Maximum payload (Circle appropriate choice)

	Ru	n 1	Rui	n 2	Rui	n 3
Date						
Origin						
Destination						
Ambient Temp						
Transit time						
Condition of shipping container on receipt OK	Yes	No	Yes	No	Yes	No
Visual inspection of RBCs on receipt OK	Yes	No	Yes	No	Yes	No
Temperature of RBCs on receipt						
Temperature X-XXºC throughout shipment	Yes	No	Yes	No	Yes	No
Documentation complete and accurate	Yes	No	Yes	No	Yes	No
Protocol deviations (attach deviation report):	Yes	No	Yes	No	Yes	No



 \square Yes

Operational Verification Protocol Template for Shipping Blood Components/Products for Redistribution <Enter Group of Hospitals>

User Evaluation Form for Shipping Blood Component/Products For Redistribution Procedure / Process*

Test #: Run #:
Ambient Temp: Time of packing: Shipping Time:
Receiving Time:
t flow to the steps required for
es met after the completion of all
in order to complete the
n stated in the procedures, were
oply to the product or package, to wer if applicable to your facility)

Title of Standa	rd Operating Proc	Receiving Time:		
Title of Standa	rd Operating 1 foc	redure to be used during test:		
Date of User A	cceptance test:			
User's Name:				
Facilities invol	ved in testing:			
Courier service	e used:			
Analysis:				
	e easy to understa onents/products fo No	and and does it have a consistent for redistribution? Comments:	flow to the steps required for	
Are the objecti required steps '		are listed and were the objectives	met after the completion of all	
□ Yes	\square No	Comments:		
	d equipment and not components/pro	materials listed in the procedure in oduct?	n order to complete the	
□ Yes	□No	Comments:		
	ing the shipping coasy to work with?	ontainer's packing configuration	stated in the procedures, were	
⊔ Yes	□ NO	Comments:		
-	_	ring devices: are they easy to applaitoring can be achieved? (Answe		
□ Yes	□ No	Comments:		
Can the shippi	ng container be ea	asily secured with a tamper evide	nt seal?	

Comments:

 \square No



Were the ice pack ☐ Yes	s and gel packs	Comments:
		the products from storage to the time of packing into the nutes when using the procedures? Comments:
-		pital redistribution form easy to complete and did it capture all g products to another transfusion medicine facility? Comments:
11 0	•	tach to the container, and does it clearly state the shipping g facility and its address? Comments:
container?		ved in good condition, with no dents or breaches into the
□ Yes	□ No	Comments:
Were products vis ☐ Yes	sually inspected ☐ No	I to ensure there was no breakage or leakage during transit? Comments:
Was the packing o	configuration us	sed a known validated packing configuration? Comments:
Was the time in tr ☐ Yes	ansit within the □ No	e allowable limit for the validated container? Comments:
	containers, proc	cedure for shipping blood components and products, and the ion at your facility? Comments:
*Each participant this process.	in the validatio	on should complete this form to aid in the overall evaluation of
Final Results Rev	iewed by:	Date:



Deficiencies Report:

To be used to document any deviations from procedure, incidents or errors and any corrective action taken and final outcome.

Copy this page as required to list deficiencies. Complete all requirements. Forward for sign off for both minor and major deficiencies prior to continuing tests. Attach all documents

Deficiency Title and Number:	reneres prior to continuing tests. Treaten an documents	
Deficiency Classification: ☐ N	Minor Major	
Details of Deficiency		
Reported by:		
Corrective Action:		
Reported by:	Approved by:	
Signature/Date	Signature/Date	
Comments:		