Stanton Territorial Hospital		Document Number: TMM80700	
NORTHWEST TERRITORIES NORTHWEST TERRITORIES Hoalth and Social YELLOWKNIEF NT X1A 2N1		Version No: 1.0	Page: 1 of 10
		Distribution:	
Services Authority		Transfusion Medicine Manual	
Document Name: Unit Retype Testing		Effective: 03 January, 2018 Date Reviewed: 03 January, 2018	
		Approved By:	
Jennifer G. Daley Bernier, A/ Manager, Laboratory Services		Status: APPROVED	

PURPOSE:

To perform and result retype testing on Units of Red Blood Cells received from Canadian Blood Services (CBS).

POLICY:

Red Blood Cell units must have the ABO & Rh status confirmed upon receipt from CBS.

The ABO and Rh status must be recorded as tested in the Laboratory Information System (LIS).

SAMPLE INFORMATION:

Туре	Blood
Source	Segment removed from Red Blood Cell Unit
Volume	1 mL or less
Stability	42 days from collection date on unit
Storage	2_8°C
Requirements	2-0 0
Criteria for	
rejection and	Unit does not pass Visual Inspection
follow up action	

REAGENTS and/or MEDIA:

- Anti-A and Anti-B (Ortho Clinical Diagnostics Murine Monoclonal Blend) Reagent
- Anti-D (RH1) IgM + IgG BioClone Reagent
- Rhesus Reagent Control BioClone Reagent
- Isotonic Saline

SUPPLIES:

- Serological Centrifuge
- Work block(s)
- Transfer pipettes

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- Tubes (12x75mm)
- Marker
- Blue Segment Piercer or scissors

EQUIPMENT CALIBRATION AND MAINTENANCE:

- See BLB70300 Equipment Maintenance & Alarm System Checks for Blood Bank
- See BLB70700 Calibration of Incubators, Pipettes and Thermometers

SPECIAL SAFETY PRECAUTIONS:

- Handle all products and samples as potentially infectious.
- Some products may contain hazardous chemicals such as sodium azide (Anti-A, Anti-B) – must be disposed of with flushing of large amounts of water if disposed down a drain.

QUALITY CONTROL:

• See TMM***** – Reagent QC (to be written)

PROCEDURE INSTRUCTIONS:

Follow the steps in the table below to perform and result unit retype testing:

Step	Action	
1	Retype testing is ordered automatically on units that are received into the LIS	
	lf:	Then:
		Unit Retype worksheets are
2	Units are received using the Batch Delivery Method	automatically built for test
		resulting – Go to Step 12 for
		Performing testing and
		Entering results

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	Units are received using the Delivery Method	Unit Retype worksheet must be built prior to test resulting – Go to Step 3 below
3	Go to 4-Results > Unit Test Worksheets	S-MANAGEMENT C Vorksheets t Test Worksheets match Worksheets est Worksheets v Control
4	Click: Build SOFTBANK - RESULTS Unit Test W Build Enter_results	
5	Use drop down menu to select testing for the wor SOFTBANK (Active) - Worksheet selection. Worksheet: RETYP Retype Units Tests: RETYP Workstation: SBB	ksheet – Select RETYP No of elements: Default rack#: STHQC
6	Click: F12-Accept	
7	List of units with un-resulted Retype testing order SOFTBANK (Active) Unit# Prod. ABO Rh Order# Te C052117436426 RCE O NEG C0070011 RE Total: 1 Current: 1 Selected: 0	ed will appear.
8	Select units to retype using the F5-Mark all option A check mark will appear next to selected units SOFTBANK (Active) hit# Prod. ABO Rh Order# Te C052117436426 RCE 0 NEG C0070011 RE Total:1 Current:1 Selected:1	or Enter to select individually
9	Click: F12-Accept	

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	lf:	Then:
10	SOFTBANK (Active)	Yes
11	Unit retype worksheet is now built.	
	Go to Enter Results	
12	SOFTBANK - RESULTS Unit Test Worksheets Build Enter_results Display Clear Image: Clear	
12	If not already selected use the drop down menu to select	RETYP in worksheet
15	field	
11	Click E12-Accept	
14		
14	If:	Then:
14	If:	Then:
14	If:	Then: Click: Ok
14	If: SOFTBANK (Active) QC testing of rack STHQC has not been done on 17-12-07 OK	Then: Click: Ok
15	If: SOFTBANK (Active) QC testing of rack STHQC has not been done on 17-12-07 OK Retype Resulting worklist will appear	Then: Click: Ok
15	If: SOFTBANK (Active) QC testing of rack STHQC has not been done on 17-12-07 OK Retype Resulting worklist will appear	Then: Click: Ok
15	If: SOFTBANK (Active) QC testing of rack STHQC has not been done on 17-12-07 OK Retype Resulting worklist will appear SOFTBANK (Active) Unit: C052117436426 Prod: RCE	Then: Click: Ok
15	If: SOFTBANK (Active) QC testing of rack STHQC has not been done on 17-12-07 OK Retype Resulting worklist will appear SOFTBANK (Active) Unit C052117436426 Test ID: RETYP Test name: Retype Units Tech: AEF	Then: Click: Ok
15	If: SOFTBANK (Active) S3 QC testing of rack STHQC has not been done on 17-12-07 OK OK OK Retype Resulting worklist will appear SOFTBANK (Active) Unit C052117436426 Prod: RCE Unit C052117436426 Prod: RCE Unit ABO ABO A	Then: Click: Ok
15	If: SOFTBANK (Active) QC testing of rack STHQC has not been done on 17-12-07 OK Retype Resulting worklist will appear SOFTBANK (Active) Unit: C052117436426 Test ID: RETYP Test name: Retype Units Tech: AEF Unit ABO A B D ABO RH	Then: Click: Ok
14 15 16 17	If: SOFTBANK (Active) 33 QC testing of rack STHQC has not been done on 17-12-07 0K OK 0K Retype Resulting worklist will appear Unit: C052117436426 Vinit: C052117436426 Prod: RCE Unit: 0K OK 0K OK 0K	Then: Click: Ok
14 15 16 17 18	If: SOFTBANK (Active) X3 QC testing of rack STHQC has not been done on 17-12-07 OK Retype Resulting worklist will appear OK Unit: C052117436426 Prod: Note: Prod: RCE Unit: C052117436426 Prod: Note: Perform ABO and RH retype testing using a segment from Label all tubes per Procedure: TMM***** – Labeling Tube	Then: Click: Ok
14 15 16 17 18	If: SOFTBANK (Active) Image: Colspan="2">Image: Colspan="2" Colspan="2" Image: Colspan="2" Colspan="2" Image: C	Then: Click: Ok

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 appropriate labelled tubes 1 drop to tube labelled A 1 drop to tube labelled B 1 drop to tube labelled D 1 drop to tube labelled DC 21 Mix the tubes by gentle agitation Centrifuge tubes for 15-20 seconds at 3400 ± 200 RPM (high setting on serologic centrifuge) Remove tubes from centrifuge. Re-suspend the cells and read tubes macroscopically. See Procedure TMM***** - Reading and Recording Hemagglutination Reactions: Tube and Gel (to be written) 	 I
 20 1 drop to tube labelled A 1 drop to tube labelled B 1 drop to tube labelled D 1 drop to tube labelled DC 21 Mix the tubes by gentle agitation 22 Centrifuge tubes for 15-20 seconds at 3400 ± 200 RPM (high setting on serologic centrifuge) 23 Remove tubes from centrifuge. Re-suspend the cells and read tubes macroscopically. See Procedure TMM***** - Reading and Recording Hemagglutination Reactions: Tube and Gel (to be written) 	
 1 drop to tube labelled B 1 drop to tube labelled D 1 drop to tube labelled DC Mix the tubes by gentle agitation Centrifuge tubes for 15-20 seconds at 3400 ± 200 RPM (high setting on serologic centrifuge) Remove tubes from centrifuge. Re-suspend the cells and read tubes macroscopically. See Procedure TMM***** - Reading and Recording Hemagglutination Reactions: Tube and Gel (to be written) 	 I
 1 drop to tube labelled D 1 drop to tube labelled DC Mix the tubes by gentle agitation Centrifuge tubes for 15-20 seconds at 3400 ± 200 RPM (high setting on serologic centrifuge) Remove tubes from centrifuge. Re-suspend the cells and read tubes macroscopically. See Procedure TMM***** - Reading and Recording Hemagglutination Reactions: Tube and Gel (to be written) 	
 1 drop to tube labelled DC Mix the tubes by gentle agitation Centrifuge tubes for 15-20 seconds at 3400 ± 200 RPM (high setting on serologic centrifuge) Remove tubes from centrifuge. Re-suspend the cells and read tubes macroscopically. See Procedure TMM***** - Reading and Recording Hemagglutination Reactions: Tube and Gel (to be written) 	
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23 Remove tubes from centrifuge. Re-suspend the cells and read tubes macroscopically. See Procedure TMM***** - Reading and Recording Hemagglutination Reactions: Tube and Gel (to be written)	1
24 Re-suspend the cells and read tubes macroscopically. See Procedure 24 TMM***** - Reading and Recording Hemagglutination Reactions: Tube and Gel (to be written) Gel (to be written)	1
24TMM***** - Reading and Recording Hemagglutination Reactions: Tube and Gel (to be written)	1
Gel (to be written)	
Watch for agglutination or hemolysis	
Enter the result using drop down menu, or type in results into the appropriate	
testing fields.	
Note: There is no field to result testing for Rh Control – it is not required to be	
recorded for retype testing	
25 SOFTBANK (Active)	
Unit: C052117436426 Prod: RCE Ord: C0070011	
Test ID: RETYP Test name: Retype Units Tech: AER	
Unit ABO A B D ABO RH	
C052117436426 RCE O- 0 0 0 0 ▼ NEG	
ABO and Rh status will automatically populate based on results entered under	
the A, B and D testing result fields	
27 Click: F12-Accept	
Batch results pop up window will appear. Ensure status is C for Complete	
28 SOFTBANK (Active) - Batch results	8
iest int. 2 Stat um Except. Ex Add.test1 Ad	i. test2

29	Click: F12-Accept		
	lf:	Then:	
	SOFTBANK (Active)	 Yes – will confirm testing – and change unit status to 	
30	Confirm ?	Available in Inventory	
	Yes No Help	process – unit will not be available for use	
	Option to print Unit Confirmation Label appea	rs – Select printer to print – hit	
	enter or doubleclick on line		
	SOFTBANK (Active)		
	Printer Name Type View file V		
31	Save,file F		
	H11_ZEBR_BB L		
	S24_2EBRA_BB L		
	S28_LISADMIN_ErrorLog P Dummy P		
	F07_Zebra L		
	Place printed unit confirmation label on tested	d units – or place handwritten ABO	
32	& Rh confirmation label on tested units if no c	confirmation label is printed – See	
	examples in Appendix A below.		
33	Click: F12-Accept		
	The worklist now must be Cleared – Go to Cleared	ear	
34	SOFTBANK - RESULTS Unit Test Worksheets		
	Build 🖄 Enter_results 🖄 Display 🕼 Clear	Print X Quit	

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	If retyp work sheet is not already selecte	d in the worksheet field – use the drop
35	Image: SoftBank (Active) - Worksheet selection. Worksheet: RETYP Tests: RETYP Workstation: SBB	
36	F12-Accept	
	The worklist will appear	
37	Image: SoftBank (Active) Prod: Prod: RC Unit: C052117436426 Prod: RC Test ID: RETYP Test name: Retype Units Unit ABO A B D ABO C052117436426 RCE O- 0 0 0 0	E Ord: C0070011 Tech: AER O RH NEG
	Units to be cleared from the worklist requ	ire a checkmark in the box to the left of
	the Unit field. To select and put a checkn	nark click either F3-Mark/unmark for
	single unit or F4-All to select all units on	list
38	SOFTBANK (Active)	
	Unit: C052117436426 P Test ID: RETYP Test name: Retype Units	Tech: AFR
		ABO RH
	C052117436426 RCE O- 0 0 0	O NEG
39	F12-Accept	
	lf:	Then:
40	SOFTBANK (Active) 1 line of 1 has been marked to delete. Delete it?	Pop up will show how many lines or units will be deleted from the worklist.
	Yes No Help	Click Yes to confirm deletion
41	Worksheet will be cleared of any check r	narked units.

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EXPECTED RESULTS:

- Unit is retyped and recorded as such in the LIS.
- Unit status will now be set to Available.
- Unit can now be used in crossmatch testing for patient transfusions.

RELATED DOCUMENTS:

- TMM80300 Receiving Blood & Blood Products from CBS at Stanton Territorial Hospital
- TMM***** Labeling Tubes, Gel Cards and Block Set-up (to be written)
- TMM***** ABO Testing (to be written)
- TMM***** Rh Testing (to be written)
- TMM***** Visual Inspection of Blood, Blood Components and Derivatives.
- TMM80500 Creating Unit Segments
- TMM***** Reading and Recording Hemagglutination Reactions: Tube and Gel (to be written)

REFERENCES:

- 1. Canadian Society of Transfusion Medicine. (April 2017). *Standards for Hospital Transfusion Services, Version 4.*
- 2. Canadian Standards Association. (February 2016). *Blood and Blood Components CAN/CSA-Z902-15.*
- 3. SCC Soft Computer. (n.d.). SoftBank II v25 Super User Training Manual. SCC Soft Computer.

APPENDIX (APPENDICIES):

• <u>Appendix A:</u> Examples of possible unit confirmation labels

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REVISION HISTORY:

REVISION	DATE	Description of Change	REQUESTED BY
1.0	03 Jan 2018	Initial Release	A. Richardson

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Appendix A: Examples of possible unit confirmation labels

LIS printed Unit Confirmation Label Example	Handwritten Confirmation Label Example
ABO GROUP CONFIRMED Unit#: C052117436426 RCE	ABO & Rh CONFIRMED
O NEG Tested: 17-12-07 14:32by AER	7 Dec 17 Test Date/Tech.

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