



**PURPOSE:**

Patients require 2 independent testing of their ABO and Rh group to confirm ABO and Rh status. This procedure outlines how to order, perform and result the CONF test for patients that do not previously have a second ABO and Rh result on file in the LIS.

**POLICY:**

All patients must have testing of their ABO group performed twice to confirm ABO status. ABO status can be confirmed by a combination of an ABO test performed on a current sample and the following:

- A historical result – from card file or previous result in LIS
- A second independent testing of the same current sample (preferably by a 2<sup>nd</sup> technologist)
- Testing of a second correctly identified and labelled specimen

This second ABO/Rh test is ordered using the CONF test code in the LIS. The CONF test is not reported on the final report.

**SAMPLE INFORMATION:**

<b>Type</b>	Blood – anticoagulated with EDTA
<b>Source</b>	Venipuncture
<b>Volume</b>	3.0-6.0mL
<b>Stability</b>	14 days
<b>Storage Requirements</b>	2-8°C
<b>Criteria for rejection and follow up action</b>	Specimen that are: Mislabeled, hemolysed, lipemic, icteric, low volume, greater than 96 hours old

<b>Document Name: ABO Confirmation (Patient Retype) Testing</b>	<b>Document Number: TMM20901</b>	
	<b>Version No: 1.0</b>	<b>Page: 2 of 10</b>
	<b>Effective: 09 November, 2017</b>	

**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
- Tubes (12x75mm)
- Marker

**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.

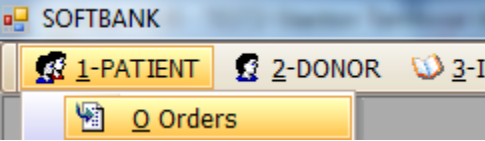
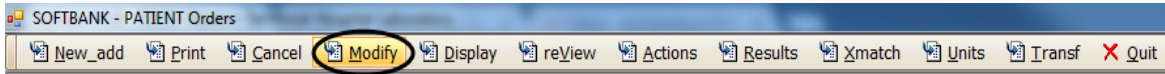
**QUALITY CONTROL:**

- See BLB71000 – Reagent QC

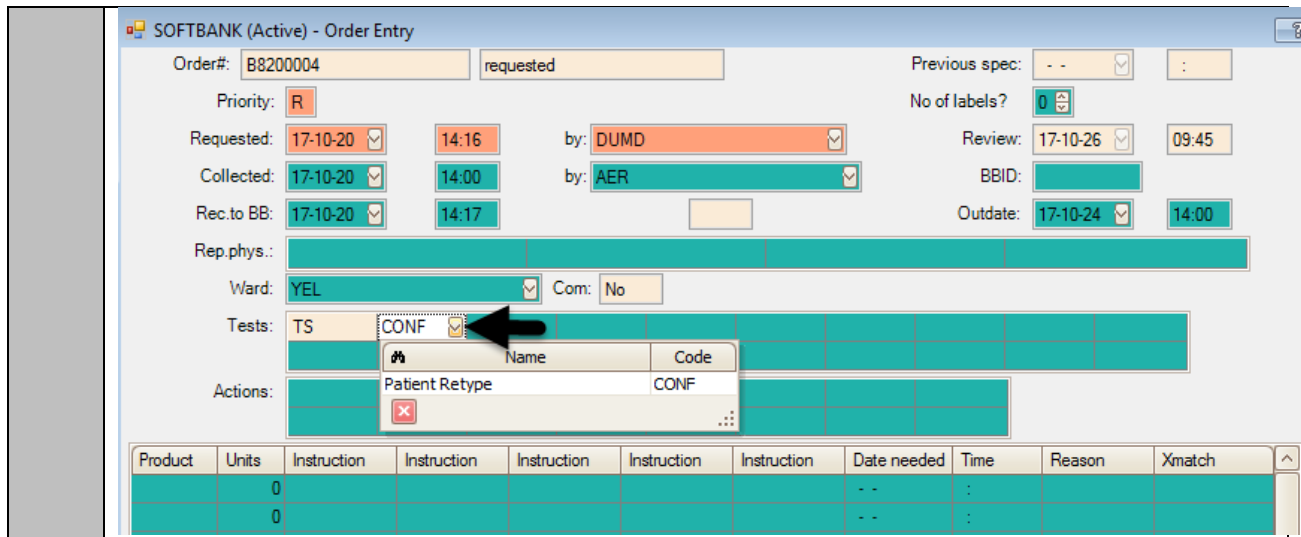
<b>NOTE:</b> This is a controlled document for internal use only. Any documents appearing in paper form are not controlled and should be checked against electronic version prior to use.	
FILENAME: TMM20901ABOConfirmation(PatientRetype)TestingPRO.docx	Print Date: 09/11/2017 2:35:00 PM

**PROCEDURE INSTRUCTIONS:**

Follow the steps in the table below to order, perform and result the CONF – Patient Retype test

Step	Action	
1	History Check must be performed on the patient. See Procedure <b>BLBN20200 – Patient History Review</b>	
2	The CONF test is required for any patient that is no previous history showing in the LIS under their current stay MRN.	
<b>To order the CONF test:</b>		
1	Go to Patient > Orders 	
2	Go to Modify 	
3	Enter patients last name (LN) and first name (FN) and/or Medical Record Number <b>OR</b> Click: F3-By order and enter the order number	
4	Click: F12-Accept or Enter	
5	Select the correct patient from list if applicable	
6	Select the correct stay from list if applicable	
7	<b>If:</b>	<b>Then:</b>
	Patient Caution window appears	Click: Esc-Quit after reviewing
8	In the Order Entry window – in the tests section type in <b>CONF</b>	

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9 Click: F12-Accept

	If:	Then:
10		Yes

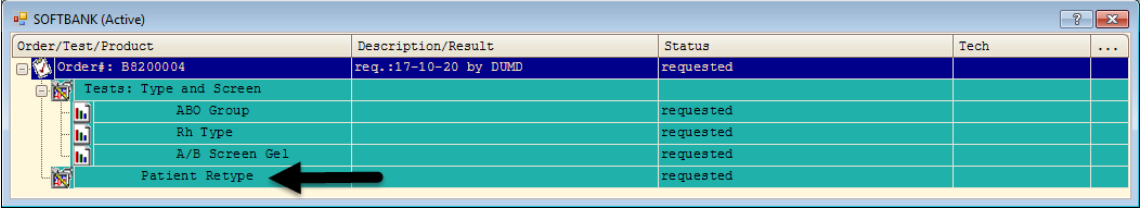
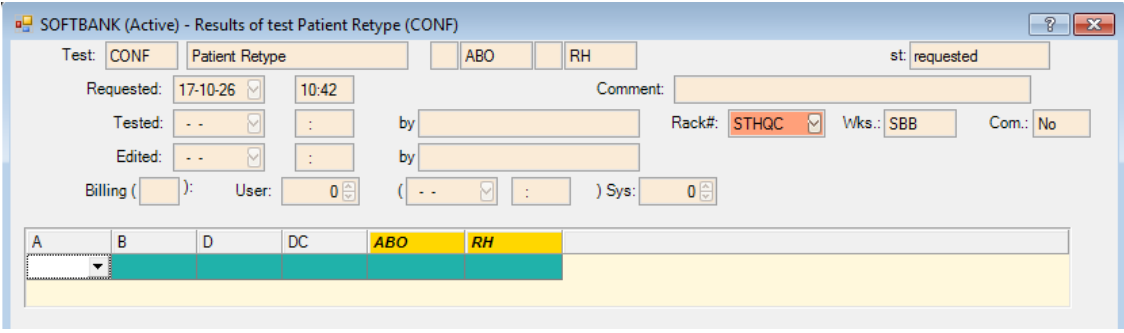
11		Yes
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**To Perform and Result the CONF Test:**

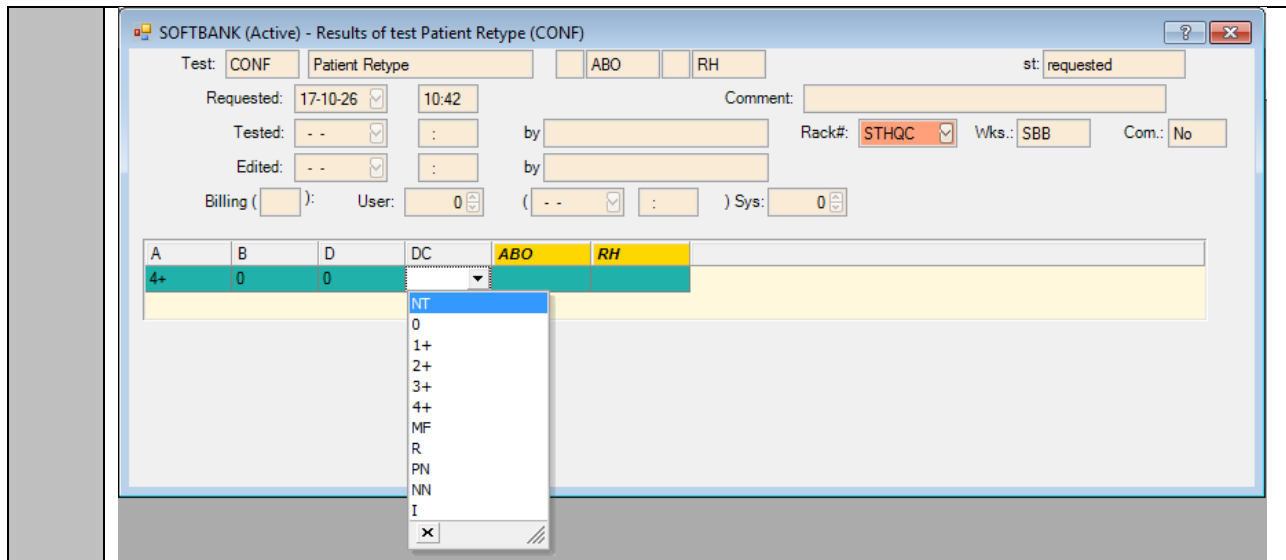
1 In LIS Go to Patient > Orders

2 Go to Results

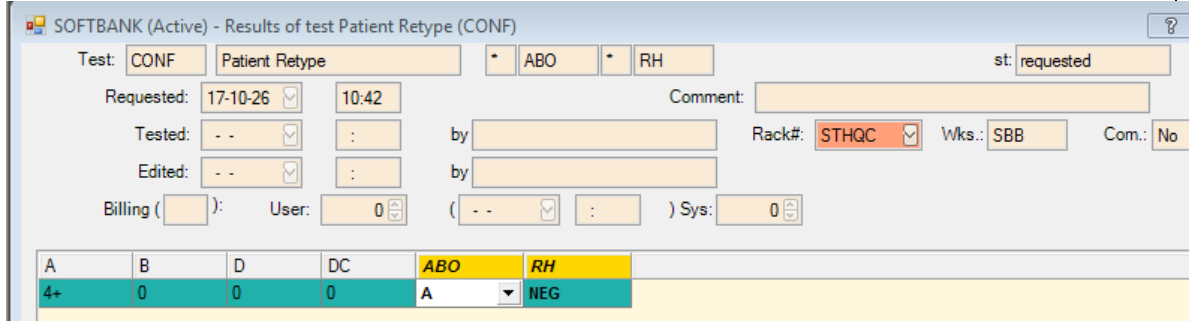
3 Select Patient Retype – highlight and double click or press Enter

	
4	<p>Results of Patient Retype test window will appear</p> 
5	<p><b>IF performing testing on site go to step 6:</b>  <b>IF recording results from a previous history on file go to step 21:</b></p>
6	<p>Label all tubes per Procedure: <b>BLB20400 – Labeling Tubes, Gel Cards and Block Set-up</b></p>
7	<p>Warm reagents and sample to room temperature: 15-30°C</p>
8	<p>Add patient 3% red cell suspension to the appropriate labelled tubes</p> <ul style="list-style-type: none"> <li>• 1 drop to tube labelled A</li> <li>• 1 drop to tube labelled B</li> <li>• 1 drop to tube labelled D</li> <li>• 1 drop to tube labelled DC</li> </ul>
9	<p>Mix the tubes by gentle agitation</p>
10	<p>Centrifuge tubes for 15-20 seconds at 3400 ± 200 RPM (high setting on serologic centrifuge)</p>
11	<p>Remove tubes from centrifuge.</p>
12	<p>Re-suspend the cells and read tubes macroscopically. See <b>Procedure BLB25700 Reading and Recording Hemagglutination Reactions: Tube and Gel.</b>          Watch for agglutination or hemolysis</p>
13	<p>Record results of testing into appropriate LIS field –using the drop down or typing in result          *You must enter the name of the QC Rack in the Rack# field in order to record results.</p>

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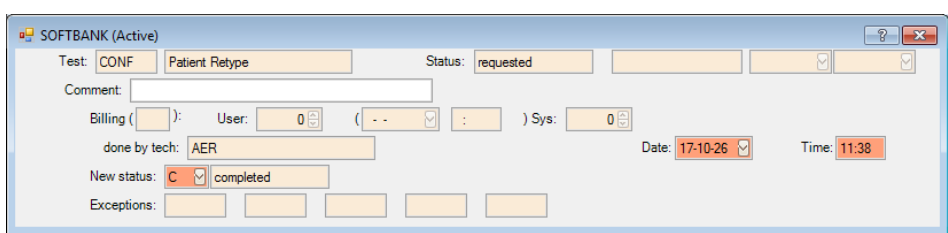
14 ABO and RH field will be automatically populated based on results entered into test result fields:



If there is a discrepancy the fields will not populate and investigation into results may be required. See procedure **BLB40500 - ABO Problem Solving** or **BLB30400 - Rh Problem Solving**

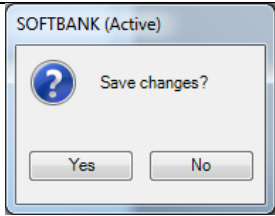
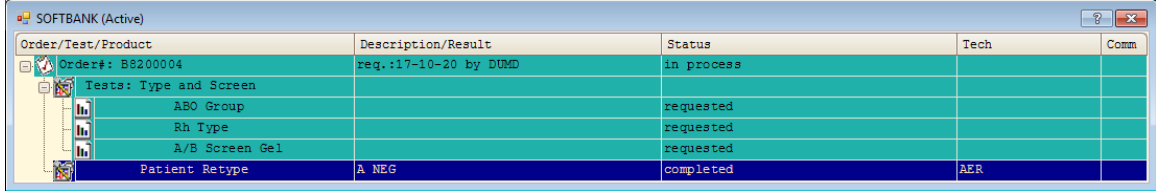
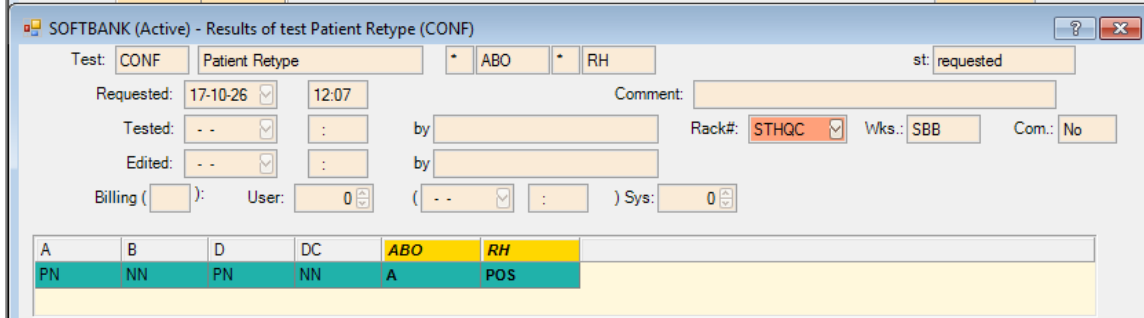
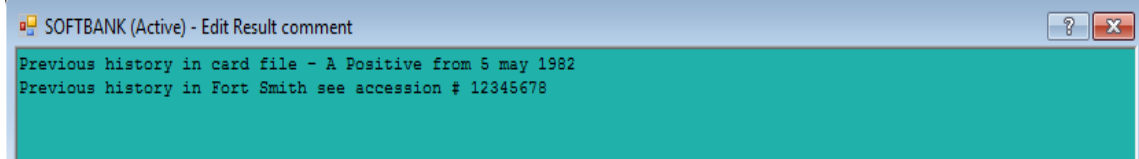
15 Click: F12-Accept

Completion of testing box will appear

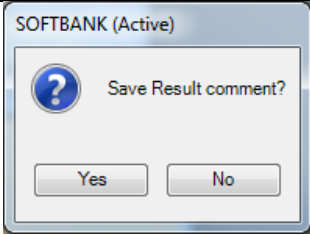
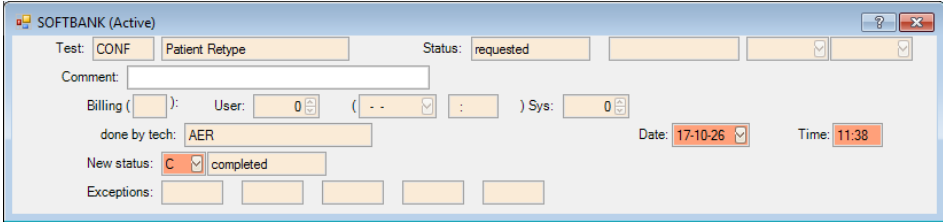
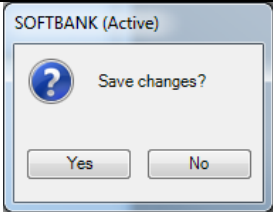
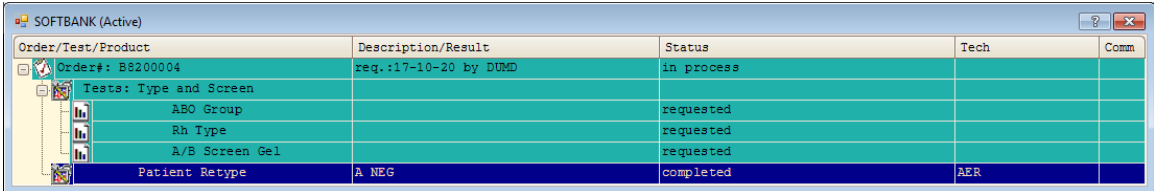


17 Click: F12-Accept

18 **If:** **Then:**

		Yes
19	Testing will show a result and status: Completed. 	
20	Click: Esc-Quit to return to menu	
21	<b>If recording results from a previous history on file Result as follows:</b>	
22	Record results in appropriate LIS to reflect previous ABO RH history using result of <b>PN (positive not tested)</b> or <b>NN (negative not tested)</b> as if testing was performed using a the drop down menu or typing in the result. The ABO and RH fields will be automatically populated based on results entered into test result fields 	
23	Add a comment – Click: F8-Comment as to where history is from 	
24	Click F12-Accept to save comment	
25	<b>If:</b>	<b>Then:</b>

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		Yes
26	Click: F12-Accept	
27	Completion of testing box will appear 	
28	Click: F12-Accept	
29	<p style="text-align: center;"><b>If:</b></p> 	<p style="text-align: center;"><b>Then:</b></p> Yes
30	Testing will show a result and status: Completed. 	
31	Click: Esc-Quit to return to menu	

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**EXPECTED RESULTS:**

- Patient will have a second ABO/Rh on a current stay MRN in the LIS documented from either the testing of a current sample or from historical data.
- ABORH status will show in Patient Info Section

SOFTBANK - Select patient.

LN: LINK FN: ONE MN:

MR: SX00000098 M:  Ab:  Ag:  ADH:  Tx:

HCN: Sex: X DOB: 1980-01-01 TR: ABO, Rh: A NEG

Adm: 17-10-20 Attn by: PHYSICIAN NOT APPLICABLE Disch. date: --

Loc: LABORATORY - STANTON TERRITORIAL

Bill#: SX000000098 Diag:

**RELATED DOCUMENTS:**

- BLB71000 - Reagent QC
- BLB25800 – ABO Testing
- BLB25200 – Blood Bank Specimen Acceptance and Rejection
- BLB20200 – Patient History Review
- BLB20400 – Labeling Tubes, Gel Cards and Block Set-Up
- BLB25700 – Reading and Recording Hemagglutination Reactions: Tube and Gel
- BLB40500 - ABO Problem Solving
- BLB30400 - Rh Problem Solving

**REFERENCES:**

- Canadian Society of Transfusion Medicine. (April 2017). *Standards for Hospital Transfusion Services, Version 4*.
- Canadian Standards Association. (December 15). *Blood and Blood Components CAN/CSA-Z902-15*.
- Ortho Clinical Diagnostics. (2015, August). Anti-D (RH1) IgM + IgG BioClone Package Insert.
- Ortho Clinical Diagnostics. (2015, August). Rhesus Reagent Control BioClone Package Insert.
- Ortho Clinical Diagnostics. (2015, October). Transfusion Medicine Blood Grouping Reagents Anti-A (Anti-ABO1), Anti-B (Anti-ABO2), Anti-A,B (Anti-ABO3 Murine Momoclonal Blend BioClone for Slide, Tube and Microplate Tests IFU Package Insert. Retrieved from Technical Documents:  
[http://techdocs.orthoclinical.com/IFU/IntIDetailPage.aspx?hidebanner=Y&cPath=e631300505\\_EN.pdf&p=1](http://techdocs.orthoclinical.com/IFU/IntIDetailPage.aspx?hidebanner=Y&cPath=e631300505_EN.pdf&p=1)

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**REVISION HISTORY:**

<b>REVISION</b>	<b>DATE</b>	<b>Description of Change</b>	<b>REQUESTED BY</b>
1.0	09-Nov-2017	Initial Release	A. Richardson

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