Lab Location:	SGMC and WAH	**Date Implemented:**	8.31.2017
Department:	Blood Bank	**Due Date:**	9.28.2017

DESCRIPTION OF PROCEDURE REVISION

Name of procedure:

Confirmation of Patient's Blood Type (ABO Recheck)

Description of change(s):

Blood bank staff members will add a billing code when receiving retypes in the future.

- The billing code will ONLY apply when lab staff specifically collected a retype on the patient
    - The billing code is NOT applied for nurse collect labs
    - The billing code is NOT applied when blood bank pulls a previously tested specimen (CBC, HbA1C, etc) for retype testing.
- The billing code will be entered as a lab test in the Order Entry field when the retype is received
- One of the following codes will be used
    - LVC = laboratory VENOUS collection
    - LCC = laboratory CAPILLARY collection

Electronic Document Control System

Quest Diagnostics

Document No.: SGAH.BB18[4]

Title: Confirmation of Patient's Blood Type (ABO Recheck)

Owner: LESLIE BARRETT

Status INWORKS

Effective Date: 29-Sep-2017

Next Review Date:

Non-technical SOP

Title	**Confirmation of Patient's Blood Type (ABO Recheck)**
Prepared by	Maria Hall	Date: 8/20/2009
Owner	Stephanie Codina	Date: 4/12/2010

Laboratory Approval

Print Name and Title	Signature	Date
Refer to the electronic signature page for approval and approval dates.		

Local Issue Date: Local Effective Date:

Review:

Print Name	Signature	Date

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1. **PURPOSE**

   Confirmation of blood group and type is utilized to provide for patient safety by detecting clerical or technical errors in patient blood typing prior to transfusion.

2. **SCOPE**

   The ABO and Rh type will be confirmed through the use a separate valid ABO/Rh result. This valid ABO/Rh will be a second specimen drawn by a different person or drawn at a different time, a historical record of ABO/Rh, or an ABO/Rh report from a CLIA certified lab. Type specific blood products will not be issued until ABO confirmation testing is complete.
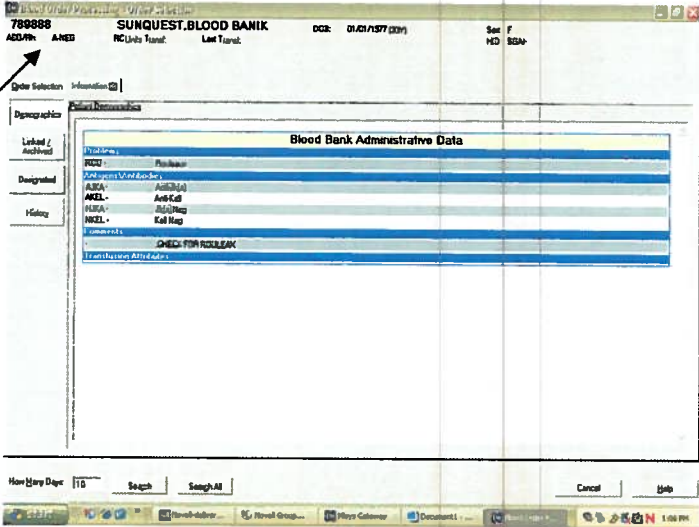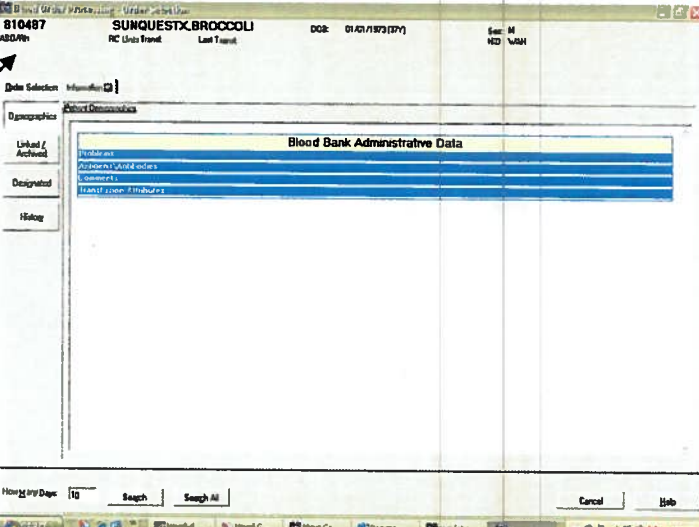
3. **RESPONSIBILITY**

   All blood bank staff must demonstrate competency for recognizing which patient specimens require confirmatory blood typing.

4. **DEFINITIONS**

   - ABO Retype/ABO Confirmation: A sample drawn to confirm ABO and Rh typing on a patient who has no previous blood bank history.

   - Historical ABO: An ABO and Rh result obtained on a patient from archival data at the current or sister hospital **or** report from a different CLIA certified laboratory **or** an autologous blood product in the laboratory for the patient.
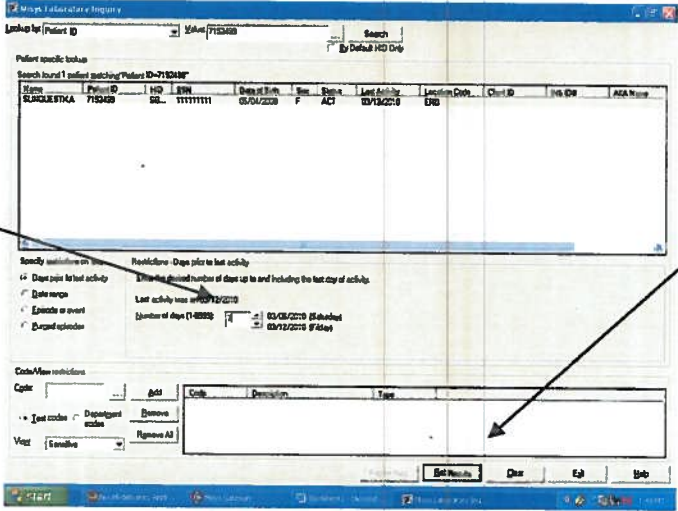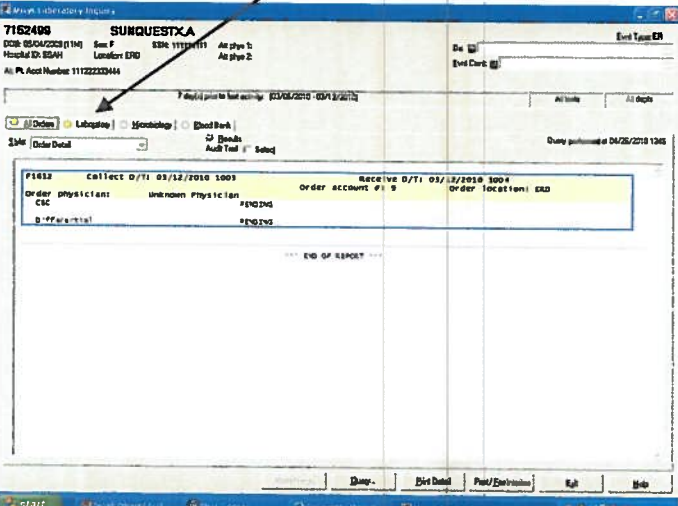
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5.   PROCEDURE

Step	Action
1	Immediately upon receipt of a T&S specimen, perform a history check per procedure, "Patient History Check." An ABO retype is required for any patient who does not have a historical blood type on file. Example of patient **with** historical data: Example of patient **without** historical data: All patients who do not have a historical ABO on file require ABO retype/confirmation to be performed utilizing a second specimen. Note: In some cases, patients will have archived data or ABO/Rh data from the sister hospital that will not show on this screen. It is permissible to order and result a historical ABO test so the LIS will reflect accurate historical data.

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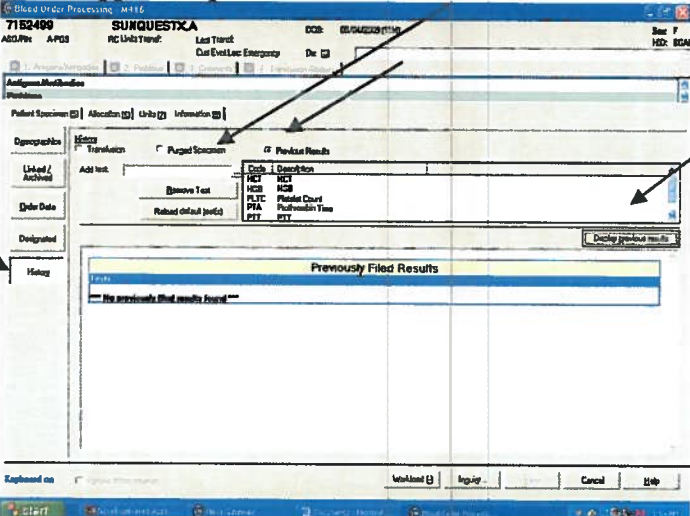
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Step	Action
2	When a patient needs ABO retype/confirmation testing, first check to see if the patient has an acceptable specimen in the laboratory. METHOD 1: A. Access Sunquest function, "Laboratory Inquiry." B. In the "Lookup by" prompt, select "Patient ID" from the dropdown menu. C. In the "Value" prompt, type the patient's medical record number and click on the "Search" button. D. Highlight the correct patient from the list of patients that appears. E. In the "Number of days (1-9999)" prompt, type "7" and click on the "Get Results" box. F. Click on the "Laboratory" tab. A list of all of the patient's laboratory work performed in Core Lab will appear. Look for a CBC order.

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Step	Action
2 Cont	<u>METHOD 2:</u> A. Branch to here from the "Patient History Check" or a. Access Sunquest function, "Blood Order Processing." b. In the "Lookup by" prompt, select "Patient ID" from the dropdown menu. c. In the "Value" prompt, type the patient's medical record number and click on the "Search" button. B. Click on the "Order Selection" tab. C. Select the correct specimen from the list if more than one appears. D. Click on the "Information" tab. Note: The data will not appear if you click on the information tab prior to selecting a specimen. E. Click on the "History" button. F. Click on the "Previous Results" prompt. G. Select any hematology test that uses an EDTA specimen from the list by clicking on the test. H. Click on the "Display Previous Results" button. I. The result will appear, if present.
3	If a previous result exists within 7 days, verify the date and time of the specimen. A. If the specimen was collected at a different time than the T&S specimen, it may be used for ABO Retype testing. B. If no specimen exists or if the specimen was collected at the same time as the T&S specimen, a new specimen must be requested. It may be necessary to check the "ED Hold" rack also.

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ABO Confirmation

This section only applies:

A. If a new specimen will be collected or if a hematology specimen exists for patient testing.

B. If the patient is in-house. It is not necessary to order ABO confirmation testing on outpatients or lab draws.

Step	Action

1	Order the ABO Retype/Confirmation testing in Sunquest.
	A. Access Sunquest function, "Order Entry."
	B. At the "Lookup By" prompt, click on the dropdown menu and select "Patient ID."
	C. At the "Value" prompt, type the patient's medical record number and click on the "Search" button.
	D. Click on the patient for whom you are ordering testing to highlight then press the "Select" button.
	E. If the patient has an acceptable specimen in the laboratory,
	    a. At the "Collect Date" prompt, type in the date on which the specimen was collected and press tab.
	    b. At the "Collect Time" prompt, type in the time at which the specimen was collected and press tab.
	    c. At the "Received Date" prompt, press the tab key to default the current date.
	    d. At the "Received Time' prompt, press the tab key to default the current time.
	F. If the patient needs a specimen collected for testing,
	    a. At the "Collect Date" prompt, type "T" for today and press tab.
	    b. At the "Collect Time" prompt, type "N" for now and press tab.
	G. At the "Ordering Physician" prompt, type in the number of the patient's physician. This is generally listed at the top of the screen. Alternatively, you can click on the ellipse and search for physician by name. Press tab.
	H. If the patient already has an acceptable specimen,
	    a. At the "Phlebotomist Code" prompt, type either "850" for nurse collect, "870" for MD collect, or the phlebotomist's ID number for phlebotomist collect.
	    b. At the "Workload Code" prompt, type "RNC" for nurse collect, "MDC" for MD collect, or "VP" for phlebotomist venipuncture.
	I. At the "Order Code" prompt, type "RTYP" and tab.
	J. Click on the "Save" button.
	K. The retype will generate a new accession and a label will print.

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Step	Action
2	A. For phlebotomy collect areas, the ABO confirmation testing will automatically show on the phlebotomist collection list. a. No action is necessary if the ABO confirmation testing is routine. b. Call the phlebotomy department and request a STAT draw if blood transfusion is pending. B. For nurse collect areas (L&D, ED, OR), notify the nurse taking care of the patient of the need for ABO confirmation testing via telephone call or fax. The "Blood Bank Extra Specimen Request Form" is used to document the need for ABO confirmation in nurse collect areas. The form may be discarded when the ABO confirmation specimen is received. ABO confirmation specimens must be labeled with the following: a. Patient's last and first name b. Patient's medical record number c. Date and time of collection d. Initials or ID of person collecting specimen e. Blood bank armband number and handwritten labels are NOT needed.
3	ABO retype specimens will be delivered to blood bank upon receipt. Blood bank staff will receive the specimens in Sunquest per procedure and add a collection fee if applicable. A. A collection fee will be added to any specimen that phlebotomy staff drew specifically for ABO retype testing. a. Billing will NOT be added to specimens that nursing staff collected. b. Billing will NOT be added for any specimen that was previously drawn and obtained from the laboratory. B. Collection fees will be added in Order Entry using the following mnemonics. a. LVC = venous collection performed by lab staff b. LCC = capillary collection performed by lab staff
4	Blood bank staff will test the specimen per procedures, "ABO Group (Tube Testing)" and "Rh Type (Tube Method)." A. Refer to procedure, "ABO/Rh Discrepancies with Historical Data" if the ABO or Rh of the new specimen does not match that of the original. B. If a discrepancy exists between the forward and reverse type that was present in the original specimen, you do NOT need to complete the ABO discrepancy workup on the second specimen provided the immediate spin results of the second specimen match those of the original specimen exactly.
5	ABO confirmation testing should take place as soon as workload permits.

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Historical ABO

This section applies if:

A. The patient care area submits an acceptable ABO report from another laboratory.

B. The patient has an archived or historical ABO from our lab or our sister lab.

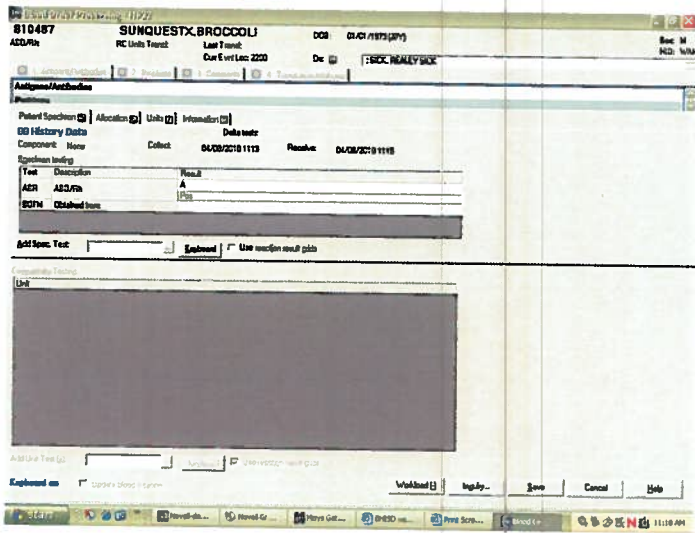C. The patient has autologous blood products that have been typed from a licensed or registered blood donor center.

Step	Action
1	If a report is received from another laboratory, ensure that the report meets criteria prior to accepting: A. The report must contain at least two patient identifiers. a. One identifier MUST be the patient's name. i. Reject the report if the first and last name listed on the report does not match the first and last name in the computer. ii. Reject the report if the last name of the patient changed (i.e. patient was married). b. Other acceptable identifiers are: i. Birthdate ii. Social Security Number B. The laboratory MUST be CLIA accredited. We will make the assumption that all Quest and LabCorp are CLIA accredited. C. The result must be an original report or a copy of the original report. Transcribed or handwritten results will NOT be accepted.
2	Order the historical ABO test. A. Access Sunquest function, "Order Entry." B. At the "Lookup By" prompt, click on the dropdown menu and select "Patient ID." C. At the "Value" prompt, type the patient's medical record number and click on the "Search" button. D. Click on the patient for whom you are ordering testing to highlight then press the "Select" button. E. At the "Collect Date" prompt, type "T" for today or press the tab key to default the current date. F. At the "Collect Time" prompt, type in the time at which the result was received in the blood bank or "-1" to indicate now. NOTE: Do not type in "N" for now or the computer will not receive the specimen. G. At the "Received Date" prompt, press the tab key to default the current date. H. At the "Received Time' prompt, press the tab key to default the current time. I. At the "Ordering Physician" prompt, type in the number of the patient's physician. This is generally listed at the top of the screen. Alternatively, you can click on the ellipse and search for physician by

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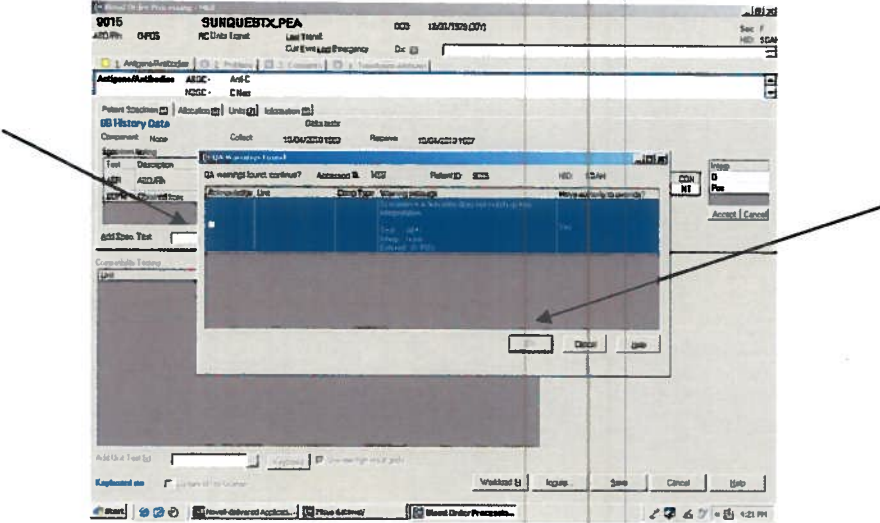
Step	Action
	name. Press tab. J. At the "Order Code" prompt, type "BHISD" and tab. K. Click on the "Save" button. L. The historical ABO order will generate a new accession and a label will print.
3	Access Sunquest function "Blood Order Processing."
4	In the "Lookup by" area, select "Patient ID" from the dropdown menu.
5	At the "Value" prompt, type the patient's medical record number and press the "Search" button.
6	Highlight the correct patient encounter from the list and click the "Select" button.
7	Highlight the "ABR" test and press the "Home" key to bring up the reaction grid. Type "9" for "Not Tested" in each box of the reaction grid.
8	In the ABO/Rh field, type the ABO and press the "Tab" key. A. Type "O" for group O. B. Type "A" for group A. C. Type "B" for group B. D. Type "C" for group AB.
9	Type in the Rh and press the "Tab" key. A. Type "P" for Rh-positive. B. Type "N" for Rh-negative.

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Step	Action
10	A QA failure message will be generated, because the LIS cannot interpret the "not tested" grid results into a blood type. A. Click on the acknowledge box. B. Click the "OK" button.
11	In the "Obtained from" area, type two semi-colons (;;) and then type in the laboratory from which the report was obtained and the specimen ID or date of the report. For example, ";;Obtained from LabCorp report SSS347" or ";;Obtained from Quest Diagnostics report dated 10/27/2009."
12	Click the "Save" button.
13	The QA failure will re-appear. A. Click the "Override" box. B. Click the "Override" button. C. A pop-up box will appear. D. Type in your username and password. E. Type "CLCR" in the "Reason Code" box. F. In the "Free Text" area, type "Historical ABO." G. Click on the "Add" button. H. Click on the "OK" button.
14	An ABO confirmation/retype must be collected and performed if an ABO discrepancy exists between the current type and a report from another laboratory. Refer to procedure, "ABO Discrepancy with Historical Type."
15	All historical ABO results should be resulted within the same shift when workload permits.
16	Place all historical reports in the Lead Tech bin for review of data entry.
17	The report from which the historical result was entered must be kept for 10 years.

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Same Tube ABO/Rh Confirmation

Only group O red cells and group AB plasma products will be issued on a patient without a minimum of 2 ABO/Rh results on file. In emergency situations, a pathologist can override this requirement. However, the ABO/Rh of the primary tube **must** be tested at least twice to confirm the ABO type.

Step	Action
1	Access the patient's T&S specimen in Sunquest Blood Order Processing.
2	In the "Add Spec Test" field, type "X" or ";ARC" to add the ABO/Rh Recheck.
3	Press the home key to access the grid.
4	Test the ABO/Rh per procedure, "ABO Group (Tube Testing)."
5	Enter the results in the grid. A. Enter the result of the Anti-A tube in the "A" field. B. Enter the result of the Anti-B tube in the "B" field. C. Enter "9" for "not tested" in the "AB" field. D. Enter the result of the Anti-D tube in the "D" field.
6	Interpret the test. A. Interpret the ABO group. a. Type "O" for group O. b. Type "A" for group A. c. Type "B" for group B. d. Type "C" for group AB. B. Interpret the Rh type. a. Type "P" for Rh-positive. b. Type "N" for Rh-negative.
7	The ABO/Rh tests performed on the primary T&S tube must match EXACTLY. A. Any discrepancies must be addressed immediately. B. Notify a supervisor or administrator on-call. C. DO NOT issue type specific blood products.

6.   RELATED DOCUMENTS
SOP: ABO/Rh Testing (Manual Tube)
SOP: ABO/Rh Discrepancies with Historical Data
SOP: Order Entry: Receiving Orders in the GUI System

7.   REFERENCES
N/A

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8.   REVISION HISTORY

Version	Date	Reason for Revision	Revised By	Approved By
		Supersedes SWB.009.000		
000	4/12/2010	Updated owner. Section 2: revised to include historical record or result from an approved laboratory Section 5: computer entry revised to reflect LIS upgrade, added LIS documentation for historical ABO	S. Codina	N. Cacciabeve
001	10/5/2010	Section 5: Added comment to move ABO/Rh data in archive or from sister hospital to BB historical ABO data; Removed requirement to order ABO confirmation testing on outpatients; Clarified process for ordering retypes for phlebotomy to collect; Added allowance that ABO/Rh results on autologous units may be used for Historical ABO; Changed data entry of historical ABO; Added instructions for same tube ABO/Rh confirmation in emergency situations.	S Codina	Dr. Cacciabeve
002	10.17.16	Header: add WAH Footer: version # leading zero's dropped due to new EDCS in use as of 10/7/13	L Barrett	N Cacciabeve
3	8.30.17	Section 5: Added requirement to bill laboratory collections for retypes	S Codina	N Cacciabeve

9.   ADDENDA AND APPENDICES
None

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