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| **Entering Results for ABO and RH Testing and Rechecks** |
| **Purpose** | This procedure provides instruction for entering ABO and Rh typing results and ABO/RH rechecks results in Sunquest grids. |
| **Test Codes** | **ABR**-as part of specific orderable tests or may be added through the keyboard.**ARC**-as part of specific orderable tests or may be added through the keyboard.CABR-credit for ABO and Rh |
| **Related****Documents** | [TS 5.2 Blood Ordering Processing](http://khan.childrensmn.org/Manuals/Lab/SOP/TS/SpecRR/202247.pdf)[TS 4.8 Grading and Interpretation of Tube Reactions](http://khan.childrensmn.org/Manuals/Lab/SOP/TS/PatTest/202225.pdf)[TS 5.3 Making Changes to a Blood Administration Record](http://khan.childrensmn.org/Manuals/Lab/SOP/TS/SpecRR/202248.pdf) |
| **Procedure** |  |
|  | **Step** | Action |
| Entering results for ABO and Rh typing | 1 | Enter Blood Order Processing by the patient sample accession number. |
| 2 | Click on the Patient Specimen tab. |
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| **If** | **Then** |
| Test ABR already part of the order | Proceed to step 4 |
| Needing to add test ABR | in the Add Spec. Test box enter **;ABR** or press key **T.** |

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|  | 4 | Press the Home key or Click in the first cell of the ABO/RH(D) grid entry field. |
|  | 5 | 1. Enter the grading of the tube agglutination reading in the appropriate grid cell.
2. Enter NT (key N) if grid cell is Not Tested.
3. Enter ICLR (key I) if ABO backtyping grid cell result is inconclusive due RT or 4C control

 reactivity.**GRID CELL**A = Anti-A tubeB = Anti-B tubeD= Anti D tubeDIN=Anti D tube after incubationDIA =Anti D tube at AHGDCC= Anti D tube with Coombs Control CellsRHC=Rh ControlA1C= A1 cells tubeBC= B cells tube |
|  | 6 | Record the ABO and Rh interpretations in the interpretation field according to the testing procedure. Interpretation entries:* ABO: O = O key A = A key B = B key AB = L key
* Rh(D): Positive = P key Negative = N key
* ;ICL (Inconclusive) as the interpretation if an inconclusive reaction pattern for ABO and/or Rh testing occurs.
* ;NN (Not Necessary) as the interpretation if testing not performed in any tube or phase. \*Credit testing by adding test code CABR to the Add Spec. Test field.

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|  | 7 |  Review tube reaction results and interpretation entry if QA failures occurs.

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| **If** | **Then** |
| An enter error was made | Re-enter tube reading results and/or interpretation. |
| Entry confirmed | * Acknowledge QA warnings. **All QA failures have to be reviewed and responded by a second tech.**
* Respond to QA failures with a reason code or free text entry
	1. BMT-BMT recipient
	2. IRPA-Inconclusive reverse type due to patient age or immune status
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|  | 8 | Save results.

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| **If** | **Then** |
| the patient’s Rh is interpreted as D (Rh) Positive at the AHG phase of weak D testing. | Add Problem Patient comment **WDP** (patient weak D-use Rh Negative products unless approved by pathology) to patient’s BAD file. |
| A change to the patient’s ABO or Rh record is deemed required after a thorough investigation of ABO and Rh result discrepancies, E.g. BMT- Bone Marrow Transplant recipient or recipient of O Neg RBC prior to original typing. | \*\*Changes must be made directly in the patient’s BAD file |

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|  | **Step** | Action |
| Entering results for ABO and Rh typing recheck | 1 | Enter Blood Order Processing by the patient sample accession number.  |
| 2 | Click on the Patient Specimen tab. |
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| **If** | **Then** |
| Test ARC already part of the order | Proceed to step 4 |
| Needing to add test ARC | In the Add Spec. Test box enter **;ARC** or press key **X.** |

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|  | 4 | Press the Home key or Click in the first cell of the ABO/RH(D) RECHECK grid entry field. |
|  | 5 | 1. Enter the grading of the tube agglutination reading in the appropriate grid cell.
2. Enter NT (key N) if grid cell is Not Tested.
3. Enter ICLR (key I) if ABO backtyping grid cell result is inconclusive due RT or 4C control

 reactivity.**GRID CELL**A = Anti-A tubeB = Anti-B tube D= Anti D tubeDIN=Anti D tube after incubation DIA =Anti D tube at AHGDCC= Anti D tube with Coombs Control CellsRHC=Rh ControlA1C= A1 cells tube BC= B cells tube |
|  | 6 | Record the ABO and Rh interpretation in the interpretation field according to the testing procedure. Interpretation entries:* ABO: O = O key A = A key B = B key AB = L key
* Rh(D): Positive = P key Negative = N key
* ;ICL (Inconclusive) as the interpretation if an inconclusive reaction pattern for ABO and/or Rh testing occurs.
* ;NN (Not Necessary) as the interpretation if testing not performed in any tube or phase. Testing must be credited by adding test code CABR to the Add Spec. Test field.

 |
|  | 7 | Review tube reaction results and interpretation entry if QA failures occurs.

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| **If** | **Then** |
| An enter error was made | re-enter tube reading results and/or interpretation. |
| Entry confirmed | * Acknowledge QA warnings. **All QA failures have to be reviewed and responded by a second tech.**
* Respond to QA failures with a reason code or free text entry
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|  | 8 | Save results.Note: Test ARC results are compared to the patient’s ABR results and the patient’s BAD ABO/Rh record; however test ARC is not filed as the patient’s BAD permanent blood type. |
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| **Approval****Workflow** | Transfusion Service/Laboratory Director |
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| **Historical Record** | **Version** | **Written/Revised by:** | **Effective Date:** | **Summary of Revisions** |
| 1 | Hartley | 1982 | Initial Version |
| 2 | Berglund | 1985 |  |
| 3 | McGee | 1990 |  |
| 4 | Dawn Hansen | 1995 | Merger |
| 5 | J Wenzel | 12/1996 |  |
| 6 | J Wenzel | 9/1998 |  |
| 7 | J Wenzel | 5/2001 |  |
| 8 | J Wenzel | 6/5/2003 |  |
| 9 | J Wenzel/S Cassidy | 7/30/07 | ABO Discrepancy added |
| 10 | J Wenzel | 12/10/2008 | New format |
| 11 | J Wenzel | 4/10/2012 | Merged old TS 5.5 and 5.6Added information for entry of ICLR result for ABO backtyping in grid cell. |
|  | 12 | S Cassidy | 07/03/2019 | Added statement that a second tech needs to review and respond to all QA failures |