**Purpose:**

This process provides an overview of workflow for resolving discrepant Blood Bank testing results.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | **Action** | | | | **Related Documents** |
| **1** | | * If ABO, RH or Antibody Screen test results exhibit the following external discrepancies:   + Current results do not match previous testing on record.   + Current results do not correlate between tube and TANGO methods.   + Current results do not correlate with patient personally communicated results. | | * Proceed to step 4 for Historical Record Investigation. | | Historical Data Resolution Policy |
| **2** | | * If ABO forward and reverse type do not agree, as per Appendix A, or show unexplained mixed-field results on ABO antisera tubes: | | * Refer to ABO Discrepancy Resolution Process | | * Table A * ABO Discrepancy Resolution Process |
| **3** | | * If Rh/D test results have positive reaction strength <2+, unexplained mixed-field reactions, or are negative when historical results were positive. | | * Follow the procedure for performing a weak D test. * Utilize other manufactured sources of Anti-D | | * Weak D test by Tube * ABD Type by Tube Method |
| **4.** | | Historical Record Investigation:   * Perform clerical check of patient identification. | | | * Compare patient sample, label, paperwork and SQ result entries for the following information:   + Full name, last, first, and middle name.   + Hospital identification number (HID).   + Phlebotomist ID (recorded on both sample and order).   + Date and time of sample collection. | | * Historical Data Resolution Policy * Sample Acceptance Evaluation * Sample Rejection Policy |
| **5.** | | If any of the above patient identification is found discrepant:   * Request patient sample redraw. * Pull all available patient samples. * Do not result interpretation of current testing which was found discrepant. * Reassign the blood bank computer orders to the correct patient HID account. * Credit any orders that may have been completed on the wrong patient HID, as necessary. * Proceed to step 7 for testing on redraw sample. | | | If none of the above patient identification is found discrepant,: | | * Order Entry in SQ |
| Proceed to step 7 with the existing patient sample. | |
| **6.** | | If only ABO/ Rh testing was ordered, repeat all immediate spin testing on necessary sample from step 6. | | | If other testing was ordered on the specimen (Antibody Screen, DAT, Crossmatch), complete full testing phases on necessary sample from step 6. | | * ABOD by tube method * Antibody screen by LISS tube IAT * Crossmatch by LISS Tube IAT Method |
| **7.** | | Record second ABO/D results on Discrepancy worksheet. | | | And/or record second results for other testing on Discrepancy worksheet. | |  |
| **8.** | | Evaluate Discrepancy: | | | | | * Selection of Red Blood Cell Units * Selection of Platelets, Plasma, and Cryo * Emergency Release Allocation Process |
| **If** | | **Then discrepancy is** | | **Take action** |
| * + Second set of test results matches original record, alternative test method or patient verbal account of testing, | | * Resolved. | | * Interpret ABO/Rh, antibody screen, and/or other test results. * record on worksheet and in computer. * Re-assign blood products as requested for patient transfusion. |
| * + Second set of testing results does not match original record, alternative test method or patient verbal account of testing, | | * Not resolved. | | * In the event of urgent blood transfusion requests, issue universal donor type components and/or uncrossmatched components, as applicable. * Notify TS Manager and TS Medical Director. |

**Table A: Expected Tube Reactions for ABO Type Testing**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **If the forward grouping reaction of patient cells with** | | **And the reverse grouping reaction of patient serum or plasma tested with** | | **Interpretation of ABO type** |
| **Anti-A is** | **Anti-B is** | **A1 cells is** | **B cells is** |
| 0 | 0 | ≥2  H | ≥2  H | O |
| 0 | 0 | ≥2  H | ≥2  H | O |
| ≥3 | 0 | 0 | ≥2  H | A |
| ≥3 | 0 | 0 | ≥2  H | A |
| 0 | ≥3 | ≥ 2  H | 0 | B |
| 0 | ≥3 | ≥2  H | 0 | B |
| ≥3 | ≥3 | 0 | 0 | AB |
| ≥3 | ≥3 | 0 | 0 | AB |

**References:**

AABB Standards for Blood Banks and Transfusion Services, Current Edition.