**Purpose**

This procedure provides guidelines for performing subsequent workups on patients with atypical antibodies.

**Policy**

Transfusion Services will investigate and complete full antibody workups and repanel antibody identification based on the following guidelines.

**Procedure:**

|  |  |  |
| --- | --- | --- |
| **Step** | **Action** | **Related Documents** |
| 1 | **If the current screen is** | **And the previous antibody screen result was** | **Then** |  |
| **NEGATIVE** | * Negative

**Or*** Not found
 | * Record the results
 | Antibody Screen by LISS Tube IAT Method |
| **NEGATIVE** | * Positive

**Or*** History of identified clinically significant antibodies
 | * If antigen is not present on screening cells (i.e. Cw), run at least one cell to verify reactivity. If reactive, perform modified panel and add BBCS for reason panel performs on a negative screen.
* Reconfirm the patient sample and order
* Repeat the antibody screen using a different methodology if in doubt of initial results
* Have patient redrawn if needed
* Honor previously identified clinically significant antibodies when crossmatching.
 | Sample Acceptance Evaluation |
| 2 | **If the current screen is** | **And the previous antibody screen result was** | **Then** |  |
| **POSITIVE** | * Negative

**Or*** Not found
 | * Perform a full antibody panel workup and complete the Rule of Three
* Check patient transfusion history to determine if a Delayed Transfusion Reaction should be initiated
 | Guidelines for Antibody IdentificationTransfusion Reaction Investigation |
| **If the current screen is** | **And the previous antibody screen result was** | **Then** |  |
| **POSITIVE** | * Positive

**And*** The reactivity pattern and strength (same or weaker) is consistent with the previously identified antibody(ies)
 | * Perform a modified antibody panel.
	+ Perform DAT and autocontrol
	+ Include enough selected cells to rule out all additional clinically significant antibodies.
	+ Include 1 cell demonstrating reactivity for each previously identified antibody.
* If new reactivity is discovered in selected cells:
	+ Complete the Rule of Three and antigen typing for the newly discovered antibody(ies).
	+ Check patient transfusion history to determine if a Delayed Transfusion Reaction should be initiated

Note: Screening cells can be used for rule ins and rule outs. | Guidelines for Antibody IdentificationTransfusion Reaction InvestigationAntigen Typing of Red Cells |
| **Step** | **Action** | **Related Documents** |
| 3 | **If the current screen is** | **And the previous antibody screen result was** | **Then** |  |
| **POSITIVE** | * Positive

**And*** The reactivity pattern and strength (stronger) is NOT consistent with the previously identified antibody(ies) **or**
* The screen is panreactive and uniform in strength (i.e 4+)
 | * Perform a full antibody panel workup and complete the Rule of Three if possible
* Check patient transfusion history to determine if a Delayed TRRX should be initiated
* For Panreactive screen and panel:
	+ Complete all required ABID reflex testing (i.e DAT and Eluate)
	+ Send to UW-TSL: Samples from patients on Anti-CD 38 or DARA-like drugs
	+ Send to BWNW: Suspected Warm Auto patients or Complex/High Frequency antibody workups that cannot be completed at HMC
 | Guidelines for Antibody IdentificationTransfusion Reaction InvestigationReference Lab Send-Out Process |

**References:**

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

AABB Technical Manual, Current Edition.