**Purpose**: To describe the process of pre-transfusion testing and applicable compatibility testing for autologous red cells.

**Process:**

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| --- | --- | --- |
|  | **Action** | **Related Documents**  |
| **1** | * Perform clerical check and resolve any discrepancies when comparing the patient name, Last, First, Middle initial, on the sample label, the Request Form, and the Sunquest patient history file.
 | * Order Entry in Sunquest
 |
| **2** | * Determine specimen acceptability
 | * Specimen Acceptance Evaluation
 |
| **3** | * Confirm that processes and attributes on the blood request are entered into the patient computer record.
 | * Blood Order Processing
 |
| **4**  | * Review Patient Comments.
* Note entry of patient date of surgery (DOS) to confirm when units are needed.
* Continue with this process if autologous units are ordered.
 | * Blood Order Processing
 |
| **5** | * Look for evidence of Autologous RBC units received for this patient.
* If units were received before specimen draw, and patient had an HID at that time, units should appear in BBI under “Auto/Directed Donor” tab.
* If units were received before specimen draw, but no HID was created, units will be entered into Sunquest but will not appear linked to a patient account. Check for this possibility by looking for patient name on Auto/Directed Donor communication board and on Auto/Directed Donor Quarantine blood shelf.
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| **6** | * Determine applicable testing profile
* Confirm order of Autologous Test Battery, including patient history check and ABO/Rh
* Second ABO/Rh is required on patients with no serologic result history of previous ABO/Rh
 |  |
| **7** | * Adjust test profile, if needed.
 |  |
| **8** | * Select test profile in BOP.
 |  |
| **9** | * Review units ordered for accuracy and adjust if needed.
 |  |
| **10** | * Complete patient specimen test “History Check”.
 |  |
| **11** | * Perform indicated testing and enter reaction results and interpretations:
* ABO/Rh on patient
* Antibody screen on patient
 | * ABO/Rh by Tube Method
* ABO/Rh by Automated Method
* Antibody Screen by LISS IAT Method
 |
| **12** | * Select appropriate donor units in this order:
* **If only autologous units are ordered,** proceed to unit allocation.
* **If multiple donor source units are ordered,** follow setup and issue in this order:
* **Autologous** are always issued first
* **Directed donor units** are issued after autologous.
* **Allogeneic** units are issued third.
 |  |
| **13** | * Allocate selected auto units for patient.
* Perform Computer crossmatch if patient qualifies.
* Review test reactions and inspect unit. Complete unit TS (Transfusion Status) field:
* If acceptable for transfusion, enter OK (refer to character keyboard); continue to next step
* If unacceptable for transfusion, enter Not OK (refer to character keyboard); remove unit from order and quarantine.
 | * Compatibility Process
* Computer Crossmatch Process
* Inspection of Blood Components
* Quarantine SOP
 |
| **14** | * If additional units (e.g. directed donor or homologous) are needed to be crossmatched for this patient, refer to applicable procedures and processes.
 | * Directed Donor Units Crossmatch Process
* Computer Crossmatch Process
* Crossmatch by LISS tube IAT Method
 |
| **15** | * Review Transfusion Tag for legibility and completeness; compare to testing computer record.
* If acceptable for accuracy, enter OK (refer to character keyboard); continue to next step
* If unacceptable for accuracy, resolve discrepancy with correct tags or enter Not OK (keyboard); remove unit from order and quarantine. Contact PSBC if error appears to be on PSBC label.
 |  |
| **16** | * Attach Transfusion Tag to unit.
 |  |
| **17** | * Complete BOP entry with Save. If unit is not issued immediately after testing, indicate with “No”.
 |  |
| **18** | * Store allocated (and crossmatched) unit(s) not requested for immediate issue.
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**References:**

Blood Bank User’s Guide, Misys Laboratory®, 2006

Standards for Blood Banks and Transfusion Services, Current Edition, Bethesda, MD: AABB