**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. |  |
| **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. |  |

**References:**

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

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