**Purpose**:

To document process for completing pre-transfusion testing and applicable compatibility testing for the issue of blood products

**Policy**

HMC Transfusion Services Lab will provide compatible blood products for non emergent blood requests. Incompatible blood may be provided if there is emergency request or there is no compatible blood available. The requesting physician must sign the urgent blood release for uncrossmatched red blood cell products

**Process:**

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| **Step** | **Action** | **Related Documents** |
| 1 | Perform clerical check and resolve any discrepancies:   * Specimen label against request and computer entry * Determine specimen acceptability * Samples from patients transfused or pregnant within the past 3 months may be used for 3 days with date of collection being day zero * Samples from patients meeting the preadmission requirements may be used for 30 days or 3 days post-surgery, whichever is sooner. | Sample Acceptance Evaluation  Tango Patient and Donor Sample Requirements and Preparation |
| 2 | Confirm processes and attributes:   * on the blood request are entered into the patient computer record * on the patient computer record are recorded on the blood request | SQ Blood Order Processing  SQ Blood Bank Inquiry |
| 3 | Review Patient Comments   * Determine if autologous or directed components are available. * Review for transplant history, SCCA, and product requirements | SQ Blood Order Processing  SQ Blood Bank Inquiry |
| 4 | Complete patient specimen test “History Check”. |  |
| 5 | Review testing results   * 2 ABO/Rh types on file for patients ≥4 months of age with Unknown blood type or no serologic result history of previous ABO/D testing * Current ABO/Rh and antibody screen | SQ Blood Order Processing |
| 6 | Perform Indicated testing if necessary:   * ABO/Rh * Antibody Screen | ABO/D by Tube IAT Method  TANGO Initializing Runs  Antibody Screen by Tube IAT Method |
| **Step** | **Action** | **Related Documents** |
| 7 | Select appropriate donor units in this order:   * Autologous * Directed * Allogeneic | Autologous Process  Directed Process |
| 8 | Allocate selected units to order |  |
| 9 | Perform applicable crossmatch test.   * Electronic – Sunquest will allow if the following criteria are met: * ABO/D from 2 independent collections * Negative Antibody History * Negative Screen on current sample * Historical but not currently active clinically insignificant antibody * Antiglobulin—Use same method used for ABID * Historical or current reactive clinical significant antibody * Clinically insignificant antibody with positive antibody screen on current sample * Units given out during urgent release on patients found to have clinically significant antibodies * Immediate Spin * Computer Down * Rh positive given to Rh negative patient * ABO and Rh discrepant results | Crossmatch by Immediate Spin Tube Method  Crossmatch by LISS Tube IAT  Crossmatch by PEG Tube IAT  Crossmatch by Pre-Warm Tube IAT Method  Policy for Provision of Crossmatch Compatible Blood  Guidelines for Antibody Identification |
| 10 | Inspect unit and complete unit test “TS”:   * Acceptable: continue to next step * Unacceptable: Remove unit from order and quarantine. | Visual Inspection of Blood Products  Quarantining Blood Products  SQ Blood Status Update |
| 11 | Transfusion Record will print | UH3363 |
| 12 | Review Transfusion Record Form for legibility and completeness of the following:   * Patient Name, HID, ABO/Rh, Antibody Screen results, Atypical Antibodies, Special requirements, Crossmatch Test Results * Unit Number, ABO/Rh, Product description, Unit expiration date, Special attributes, Atypical Antigen typing |  |
| 13 | Remove adhesive label containing the Patient and Unit Information from the Transfusion Record form, and affix it to unit back side.   * Attach Transfusion Record Form to the unit with a rubber band. |  |
| 14 | Store crossmatched unit(s) not requested for immediate issue. |  |

**References:**

AABB Standards for Blood Banks and Transfusion Services, Current Edition

*Blood Bank User’s Guide, Misys Laboratory*