**Purpose:**

To describe the preadmission protocol process for patients scheduled for surgery

**Policy:**

Qualification for the preadmission protocol requires a patient history of no pregnancy or red cell containing component transfusion within the last 3 months. These patients may have their pretransfusion samples drawn up to 30 days before a planned surgery or procedure. Patients who have been pregnant or transfused within the last 3 months or otherwise do not meet the acceptability criteria are disqualified and must have their sample drawn within 72 hours of the planned surgery or procedure.

**Process:**

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| **Step** | **Action** | **Related Documents** |
| **Initial Receipt** |
| 1 | **Collection*** Request and sample are collected by various clinics at HMC.
* When placing order for a Type and Screen Extend (TSCREX) in Epic, the physician will answer the question below and the requisition will be printed for sample collection.
	+ “Has the patient been transfused or pregnant in the last 3 months”.
 | Transfusion Services Test & Blood Product Request Form |
| 2 | **Receiving and Entering Preadmission Orders*** Sample and order for preadmission testing and/or blood products are received.
* TSL staff performs Sample Acceptance Evaluation and reviews the request (if using paper order):
	+ All order information completed.
	+ Documented answers to the required question(s)
* Incomplete forms will be evaluated.
* If missing the surgery or procedure date, call and request information. Record information on request form.
* Specimens and paperwork that are not in compliance with our SOP will be rejected.
* Enter or receive Orders into the LIS using current encounter location:
	+ Enter “Preadmission” in the Order Comments.
	+ Receive or enter order as TSCREX.
 | Sample Acceptance EvaluationSQ Order Entry ProcessSample Rejection Process |
| **Initial Testing and Determine Qualification for Extension of Compatibility Expiration Date (EXX)** |
| 3 | **Testing*** Perform TSCREX testing as routine TSCR within 48 hours of sample collection.
* Clinic will not get the automatic CPOE ABRH2 order.
* Perform ABRH2, if applicable:
* 2nd sample can be submitted with an electronic order or the manual form.
* 2nd sample can be drawn upon admission.
* Patient will receive universal donor products until 2nd sample is received
 | ABO D Type by TubeAntibody Screen by LISS Tube MethodTANGO infinity: Sample Requirements and PreparationTANGO infinity: Initializing Test RunsTANGO infinity: Validation and Export of ResultsGuidelines for Antibody Identification |
| 4 | **Determine Qualification for Extension of Compatibility Expiration Date (EXX):*** All the following criteria must be met before a patient specimen’s expiration date qualifies for extension:
	+ Patient does not have history of clinically significant antibodies; and
	+ The current antibody screen is negative; and
	+ Patient has not been transfused or pregnant within the last 3 months; and
	+ Scheduled surgery/procedure is within 30 days of sample collection.
* Any of the following criteria disqualify patients for extension of compatibility expiration date:
	+ Patient has a history of clinically significant antibodies.
	+ Patient has positive antibody screen in current TSCREX order.
	+ Answered “Yes” to any of the preadmission qualification questions: “Has the patient been transfused or pregnant in the last 3 months”.
	+ Patient history in Sunquest Blood Bank Inquiry contains a red cell component transfusion within the last 3 months and/or PREN (prenatal) ordered within the last 3 months.
		- *Note: Patients who have received blood components that do not contain allogeneic red blood cells (plasma and cryoprecipitate) may be eligible for preadmission.*
	+ Scheduled surgery/procedure date greater than 30 days of sample collection date.
 | SQ Using Blood Bank Inquiry |
| 5 | **Patient qualifies for extension of EXX** * Do not adjust the test EXX, this will be done upon admission if patient still qualifies.
* Add BBC comment
	+ “EXTS” which translates to “Sample eligible to extend for planned procedure”.
	+ Second sample for ABRH required (if applicable)
* No further notification is required.
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| 6 | **Patient does not qualify for extension of EXX*** Add BBC comment:
* “NOEXT” which translates to “Sample ineligible to extend and expires three days from collection. Redraw if procedure is more than three days from collection”.
* If surgery/procedure scheduled within 3 days of sample collection, add BBC comment:
	+ Second sample for ABRH required (if applicable)
* Notify clinical care location:
	+ Failure and reason
	+ Status of order and blood components for transfusion
	+ Request new sample be collected upon admission for remaining testing (TSCR and/or ABRH2)
* Complete QIM and PSN if disqualification due to surgery/procedure date scheduled >30 days, and/or patient has been transfused or pregnant within the last 3 months.
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| 7 | Preadmission Request* + File requisition in the Preadmission Surgery Pending File by date of procedure
	+ Rack sample
 | Sample and Unit segment management process |
| **History of clinically significant antibodies or current antibody screen is positive** |
| 8 | * Notify the MLS Lead and Medical Director if patient has a clinically significant antibody history or positive results on current sample.
* Sample is only valid for 3 days post collection.
* Identify the need for crossmatched blood products with the patient’s physician or TSL Medical Director.
* Set up units per physician or TSL Medical Director notification.
* If units need to be ordered from outside supplier, place order ahead to give adequate time for receipt and crossmatch for surgery.
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| **Day of Surgery/Procedure** |
| 9 | Day of surgery/procedure, contact clinical care site and request sample if:* Preadmission order failed and an in-date sample is not available
* ABRH2 is required but has not been submitted.
* Patient has a history of a clinically significant antibody and/or positive antibody screen.

Complete any required antibody identification and crossmatch units for antibody patients.OR Staff will complete nursing communication in Epic and ask patient if they have been transfused or pregnant in the last 30 days.* If no is answered, the communication will print in TSL and eligible sample can be extended.
* If yes is answered, the OR staff will order and collect a new TSCR. The initial sample is ineligible for extension.

**Record Preadmission Eligibility*** If all parameters are met, the patient is eligible for extension of the compatibility validity date.
* Adjust the test EXX: The sample expires at the end of the 30th day or 3 days after surgery, whichever is sooner.

File Preadmission requests in the Completed Orders file folder. |  |

**References:**

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