## TITLE: Type & Screen

## PRINCIPLE:

“Type and screen” is a shorthand notation for a policy in which individually crossmatched blood is not set aside for those patients undergoing surgical procedures that rarely require transfusion. Instead, the patient’s blood is completely tested for ABO, Rh and unexpected antibodies and is kept in the blood bank for immediate crossmatching, should this prove necessary.

**CLINICAL SIGNIFICANCE:**

For procedures like cholecystectomy, hysterectomy, thyroidectomy, orthopedic procedures and others, blood is so seldom needed that specific preoperative crossmatching is inappropriate. The Blood Bank must have appropriate donor blood available for all patients undergoing operations on a “type and screen” basis.

### PERSONNEL

Medical Technologists and Receptionists

### SPECIMEN

No special preparation of the patient is required prior to specimen collection. **See Procedure No. 4840-BB-100 Ordering Blood and Other Components for sample information.** Test as soon as possible within the 3-day limit. Samples more then 3 days old may not be used. If delay occurs, store at 2 to 8 degrees C.

### REAGENTS AND EQUIPMENT

1. Soft ID computer
2. 7ml Pink Top Tube

### CALIBRATION

None indicated

**QUALTIY CONTROL**

SoftID provided positive patient and specimen identification at the point of care. This effective lab software solution enhances patient safety by accurately identifying the patient and the appropriate lab test and ensuring that patient lab specimens are correctly bar coded and labeled.

### STEPWISE PROCEDURE

1. Draw blood sample and complete requisitions according to procedure # 4840-BB-100 Ordering Blood and Other Components. All the usual clerical procedures for a positive identification of the patient will still be performed.

2. The pre-surgical patients need to be drawn for testing only at the following times:

Surgery Type and Screen Drawing Schedule

SURGERY DAY NOT BEFORE

Monday Friday

Tuesday Saturday

Wednesday Sunday

Thursday Monday

Friday Tuesday

Saturday Wednesday

3. If a patient presents themselves for a Type & Screen before the designated time, and is unable or unwilling to return, test the sample and notify the Senior Technologist as the outdate of the sample may be able to be extended depending on certain circumstances.

4. If atypical antibodies are found by the Type & Screen test these antibodies will be identified and the Blood Bank will automatically crossmatch up to 2 units of blood, if possible, pending the availability of compatible units.

**Serological Testing of Typing & Screen**

1. Check specimen tubes for all necessary data.

**NOTE:** Specimens that do not have patient’s name (both first and last), date and time, and phlebotomist’s initials on the tube are unacceptable and will be rejected by the Blood Bank.

2. Review Blood Bank records for previous testing of the transfusion candidate.

Interpretation of previous ABO, Rh, and antibody detection tests should be compared with current interpretations and any abnormalities resolved.

1. Determine the ABO type
2. Determine Rh group.
3. Examine for unexpected antibodies.

### REPORTING RESULTS

1. All patient results should be entered in the LIS.

See Soft Blood Bank Computer Procedure Book for more information

1. Place specimen in the daily rack.
2. Make sure that there is blood in the refrigerator that may be crossmatched

for the patient if a transfusion should be ordered. If units are not available

here, order the blood from Heartland Blood Center before it is needed.

5. Type and Screen specimens will be held 3 days, if during that time the

physician decides to transfuse blood, crossmatches will be performed using

Procedure # 4840-BB-312, Compatibility Test Procedure.

## REFERENCE: AABB Technical Manual, 18th Edition, 2014

AABB Standards, 30th Edition, 2015

Soft Computer, Clearwater, Florida

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