

## The How to Order T&S and ABO/Rh Confirmation (aka check specimen)

### Background:

Why is this important?

1. To prepare for your case
2. To set up blood products
3. To prevent errors from occurring

The worst error...

**NEVER EVENT:** Transfusion of wrong blood type due to mislabeled samples leading to the wrong ABO

### How to:

Determine what samples need to be sent

1. Go to Pre-Op Window
2. Go to Procedure Blood Section
3. Current Blood Bank Labs will be listed

**Pre-op**

Pre-op | Intra | Post-Op | Post-op Discharge | POD 1 | Orders

**Blood Bank Labs**

Type and Screen: **CURRENT** (there is a current Type and Screen for this patient)

Type and Screen  
(Last 16 days)

Date/Time Type & Scrn Exp	Antibody Screen
07/13/18 0801 07/16/2018	NEG

**Type and Screen (Note: expires at 23:59 on date shown under 'Type & Scrn Exp' column above)**

- Caution: A Non-"NEG" Antibody Screen may delay blood availability

**Last 3 Blood Type Results**  
(Last 3 results in the past 8 years)

ABO/RH(D)
(07/13/18) A POS
(07/13/18) A POS
(06/22/18) A

**At minimum – you need**

- (1) Active Type and Screen**
- (2) At least 2 Blood Type Results**

**Confirmation of Blood Type. Is an ABO Confirmation Check Specimen, in addition to Type and Screen, required?**

- No Blood Type Results above → an ABO Check Specimen is required.
- 1 Blood Type Result → an ABO Check Specimen is required.
- 2+ Blood Type Results (and all are the same) → an ABO Check Specimen is NOT required
- 2+ Blood Type Results (and all are NOT the same) → Call Blood Bank for instructions (numbers below)

The ABO Confirmation Check Specimen must be sent from a separate collection from the Type and Screen.

Order the necessary labs for T&S and ABO/Rh confirmation (check specimen)

1. Go to Manage Orders Section
2. Find Ordersets (depends if you are ordering pre-op or intra-op) \*Recommend adding ordersets to your FAVORITES
  - a. IP Adult/Peds Anesthesia PREOP Orders (Orderset 1332)
  - b. IP Adult/Peds Anesthesia INTRAOP Orders (Orderset 654)

The screenshot displays the 'Order Sets' management interface. At the top, there is a header 'Order Sets' with a purple sidebar containing a menu icon and the text 'Order Sets'. The main content area shows 'Orderset 1332' in red text. Below this is a 'Search Results' section with a search bar containing the text 'IP Adult / Peds Anesthesia PREOP Orders'. Underneath the search results, there is a section titled 'Blood Product Orders' with a dropdown arrow. This section contains two paragraphs of guidelines for ordering 'Type and Screen' and 'Check Specimen', followed by a list of checkboxes for various blood products: 'Type and Screen', 'ABO/Rh Confirmation (Requires Separate Phlebotomy)', 'Prepare RBC', 'Prepare platelets', 'Prepare Fresh Frozen Plasma', and 'Prepare Cryoprecipitate'. Each checkbox is accompanied by its name and the text 'STAT, Pre-op Holding Only'. A blue link for 'UCSF Blood Product Ordering Guidelines by Procedure' is also present.

## Order Sets

Order Sets

### Orderset 1332

#### Search Results

IP Adult / Peds Anesthesia PREOP Orders

▼ Blood Product Orders

Guidelines for ordering Type and Screen:  
- A Type and Screen specimen, less than 3 days old, is required for a Red Cell crossmatch. The most recent Type and Screen result(s) along with clot expiration date are displayed within the Prepare RBC order below.

Guidelines for ordering Check Specimen:  
- Test to be ordered ONLY if patient has no previous ABO/Rh performed by UCSF Blood Bank and Check Specimen result value displayed within the Prepare RBC order is "Yes".

- [UCSF Blood Product Ordering Guidelines by Procedure](#)

- Type and Screen  
STAT, Pre-op Holding Only
- ABO/Rh Confirmation (Requires Separate Phlebotomy)  
STAT, Pre-op Holding Only
- Prepare RBC  
STAT, Pre-op Holding Only
- Prepare platelets  
STAT, Pre-op Holding Only
- Prepare Fresh Frozen Plasma  
STAT, Pre-op Holding Only
- Prepare Cryoprecipitate  
STAT, Pre-op Holding Only

## Order Sets

Order Sets

### Orderset 654

#### Search Results

IP Adult / Peds Anesthesia INTRAOP Orders

#### ▼ Blood Product Orders

**Note:** If patient is **not** admitted to the Periop Department (e.g. patient is in L&D, Cardiac Cath Lab, Radiology, etc.), **then** these Intra-Op Only orders will be signed and held. If you want them **executed immediately**, the orders **must be released**.

Guidelines for ordering Type and Screen:

- A Type and Screen specimen, less than 3 days old, is required for a Red Cell crossmatch. The most recent Type and Screen result(s) along with clot expiration date are displayed within the Prepare RBC order below.

Guidelines for ordering Check Specimen:

- Test to be ordered **ONLY** if patient has no previous ABO/Rh performed by UCSF Blood Bank and Check Specimen result value displayed within the Prepare RBC order is "Yes".

- [UCSF Blood Product Ordering Guidelines by Procedure](#)

- Type and Screen  
STAT, Anesthesia Intra-op Only
- ABO/Rh Confirmation (Requires Separate Phlebotomy)  
STAT, Anesthesia Intra-op Only
- Prepare RBC  
STAT, Anesthesia Intra-op Only
- Prepare platelets  
STAT, Anesthesia Intra-op Only
- Prepare Fresh Frozen Plasma  
STAT, Anesthesia Intra-op Only
- Prepare Cryoprecipitate  
STAT, Anesthesia Intra-op Only

## Prevent the NEVER EVENT of transfusing the wrong ABO blood

### Regulatory Requirements

- If patient does not have a prior ABO/Rh type on file here
- A separate phlebotomy must be performed (distinct from collection of T&S)
- Database goes back to 2006
- Best Practice
  - T&S drawn in PREPARE or pre-op area
  - ABO/Rh confirmation drawn in the OR

### Why isn't Best Practice followed?

- Anesthesia Workflow
  - Concerns about delays in getting blood products prior to incision
  - Difficult getting sample with pre-op IV

- Patient's don't like getting stuck twice
- Easier to get blood samples intra-op with large bore IV and/or arterial line placement

If Best Practice Not Possible...

- 1 person collects 2 samples
- Send samples with attestation card
  - Attestation card is filled out by 2<sup>nd</sup> licensed professional (MD or RN) – who did NOT draw the blood
  - Fill out attestation card completely and sign

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## UCSF Blood Bank Lab Samples

### Attestation by a **SECOND** licensed clinician

**Required if both T&S and ABO/Rh confirmation samples are collected by the same clinician.**

- A second clinician must verify and attest to matching the 2 patient identifiers on
  - 1) the patient's ID band, 2) the label on specimen tube and 3) the requisition, when applicable.

1. Affix **patient label** below

Verify Name & MRN on patient's ID band matches name & MRN on the specimen label on tube(s), & requisition (if used)

I, \_\_\_\_\_ (full name), as the **second** licensed clinician, verified that the Name & MRN on the specimen label(s) matched Name & MRN on the patient's ID band.

Signature \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Location/Room# \_\_\_\_\_

**Blood Bank Use Only**

Verified by: \_\_\_\_\_

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UCSF Blood Bank/Transfusion Committee 8/2016