

## Pediatric Heart Cath Blood Availability Guidelines

### Procedures that require T&C with blood in the room

- ASD/VSD closures
- All valve replacements
- Stents
- Atrial stents
- Valvuloplasties (no blood needed for pulmonary valvuloplasties unless critical PS in infant)
- Angioplasties (no blood needed for SVC/IVC angioplasties)
- Fontan fenestrations
- RF perforations
- PDA closures (NICU babies only)

### Syndromes that require T&S

- Williams Syndrome
- Alagille Syndrome

### Timeline for ordering blood

- Blood should be *ordered* prior to taking patient to CVL 4.
- Blood should be *sent for* once the patient has arrived in CVL 4 or after the TEE if that is a deciding factor in whether or not the intervention will take place.

### CVL process for ordering blood

- Patient that went to PACE clinic appointment:
  - T&S and ABO confirm will be done and orders for a T&C (i.e. "Prepare") will be in place. Release the blood prior to going to CVL 4.
- Patient with phone PACE appointment:
  - PACE will have placed the orders for T&S, ABO confirm and T&C (i.e. "Prepare").
  - Follow the same protocol as for inpatients. (See immediately below)
- Inpatient or patients who did not go to PACE:
  - Order a T&S, ABO confirm and T&C (i.e. "Prepare")
  - Questions regarding NPO/URI/other cancellation reasons should be referred to anesthesia by nursing prior to nurses attempting to draw blood.
  - The 2800 nurse will draw the T&S and ABO confirm.
  - 2 attempts will be made by the nurse to draw blood (and if possible start a PIV).
  - If the nurses are unable to draw a T&S after 2 attempts, anesthesia will be notified and un-crossmatched blood should be ordered pre-operatively and then sent for after the patient has been brought back to CVL 4.
  - After the patient is put to sleep, the T&S and ABO confirm will be sent ASAP and T&C (i.e."Prepare") ordered. (1 hr 20 minutes at a minimum is required for before PRBCs are ready.)
  - If the un-crossmatched blood is not needed, it will be returned to the blood bank.

## Computer process for ordering blood

### LLEAP example of ordering Type & Screen, ABO confirm and Type & Cross (aka "Prepare")

▼ Laboratory

▼ LLUH Blood Bank Tests - Type and Screen

- Type and Screen
  - ABO/Rh  
Once First occurrence Today at 1633
  - Indirect Antiglobulin Test  
Once First occurrence Today at 1633

▼ Transfusion Orders

▼ LLUH Blood Products in UNITS

**THE PREPARE ORDER IN THIS ORDER SET IS EQUIVALENT TO CROSSMATCH. Typing is still done with the Type and Screen.**

- Red Blood Cells
  - Prepare RBC

Frequency:

Starting:    At:

First Occurrence: **Today 1633**

Scheduled Times: [Hide Schedule](#)  
6/21/18 1633

Unit or Volume?

Number of Units:

Unit	Volume
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Patient Population:

Special Requirements:

Other Requirements:

Donor Source:

Comments: [Click to add text \(F6\)](#)

Last Resulted:

Component	Time Elapsed	Value	Range	Status
ABO/RH (BB)	23 days (05/28/18 2200)	O Pos		Final result
IAT	23 days (05/28/18 2200)	Negative		Final result

### LLEAP Example of Releasing Blood to CVL 4

▼ Transfusion Orders

▼ LLUH Blood Products in UNITS

**THE PREPARE ORDER IN THIS ORDER SET IS EQUIVALENT TO CROSSMATCH. Typing is still done with the Type and Screen.**

- Red Blood Cells
- Platelet Apheresis
- Thawed Plasma
- Cryoprecipitate
- Release OR Blood
  - Units of RBC: ZERO
  - Units of Plasma: ZERO
  - Units of Platelets: ZERO
  - Units Cryoprecipitate: ZERO