

# SPECIMEN COLLECTION FORM for Baseline Post-Transplant Visit (TL01)

## CKiD Chronic Kidney Disease in Children Cohort Study (CKiD)

### SECTION A: GENERAL INFORMATION

A1. PARTICIPANT ID: AFFIX ID LABEL OR ENTER NUMBER IF ID LABEL IS NOT AVAILABLE

\_\_\_\_ - \_\_\_\_ - \_\_\_\_\_

A2. CKiD Post KRT VISIT #:

\_\_\_\_

A3. FORM VERSION:

0 7 / 0 1 / 1 9a

A4. SPECIMEN COLLECTION DATE:

\_\_\_\_ / \_\_\_\_ / \_\_\_\_  
M M D D Y Y Y Y

A5. FORM COMPLETED BY (INITIALS):

\_\_\_\_

**At the Post-Transplant V1a (TV1a), collect the following:**

**Samples:**

**Shipped to:**

**Shipped:**

Serum

CBL

IMMEDIATELY

Serum

CBL

Batched (Ship in Jan, Apr, Jul or Oct)

Urine

CBL

IMMEDIATELY

Iohexol Blood

CBL

IMMEDIATELY

**BATCHED SAMPLES SHOULD BE SHIPPED QUARTERLY (Jan, Apr, July or Oct)  
OR MORE OFTEN IF DESIRED BY THE SITE COORDINATOR!**

**Samples should NOT be stored for more than one year.  
For specific questions, contact your CCC prior to shipment.**

### SECTION B: PREGNANCY TEST, FIRST MORNING URINE COLLECTION AND LOCAL URINE ASSAY

B1. Is participant a female of child-bearing potential?

Yes..... 1 (See PROMPT Below)

No..... 2 (Skip to B3)

**PROMPT: QUESTION B2 IS FOR FEMALE PARTICIPANTS OF CHILD-BEARING POTENTIAL ONLY.  
URINE PREGNANCY TEST DATE MUST OCCUR ON DAY OF VISIT FALL WITHIN 72 HOURS BEFORE  
STUDY VISIT DATE.**

**B2 MUST BE COMPLETED BEFORE IOHEXOL TESTING IS INITIATED.**

B2. a. Urine pregnancy test date:

\_\_\_\_ / \_\_\_\_ / \_\_\_\_  
M M D D Y Y Y Y

b. Urine pregnancy results:

Positive..... 1 (END; COMPLETE TRANSITIONAL (TRS03) FORM)

Negative..... 2

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## V1a Post-Transplant Visit FIRST MORNING URINE COLLECTION for CBL

Obtain urine collected at home in the specimen container that was shipped to the family before the visit.  
If URINE WAS NOT COLLECTED at home, collect FRESH urine sample during CKiD visit.

Pour at least 1 mL of urine into the CBL transport tube.

Check that all information is correct on the urine collection tube and follow packaging instructions and ship to CBL.

**Reasons** 1= Not required      3 = Participant Refused      5 = Inadvertently Destroyed      7=Insufficient Volume  
**Code List\*:** 2 = Difficult Urine Collection      4 = Collection Contamination      6 = Oversight

Sample Type (Required Volume):	(a) Sample Obtained:	(b) If No, specify reason *SEE CODE LIST ABOVE	(c) Additional Requirements:
	Yes      No		
B3. Urine Creatinine, Urine Protein  (1 mL–10 mL)	1      2 (skip to c→)	_____ (skip to B4)	i. Is this a first morning urine sample? Yes.....1 No.....2  ii. Time of Collection: ____: ____ 1 = am, 2 = pm

### OPTIONAL TESTS

#### LOCAL LAB TEST (IF CLINICALLY INDICATED)

Check with the PI at your clinical site to determine whether or not it is **CLINICALLY INDICATED** to obtain urine for local lab. These are instances when the PI needs results immediately and/or the participant needs additional local labs performed (i.e., local Urine Creatinine and Urine Protein).

B4. Was a urine protein to creatinine ratio assay performed at the clinical site's local laboratory?  
 Yes..... 1      → **Complete Local Urine Assay Results Form L06 ONLY if local labs are CLINICALLY INDICATED**  
 No..... 2

## SECTION C: V1a POST-TRANSPLANT VISIT BLOOD DRAW FOR CBL and Local Lab

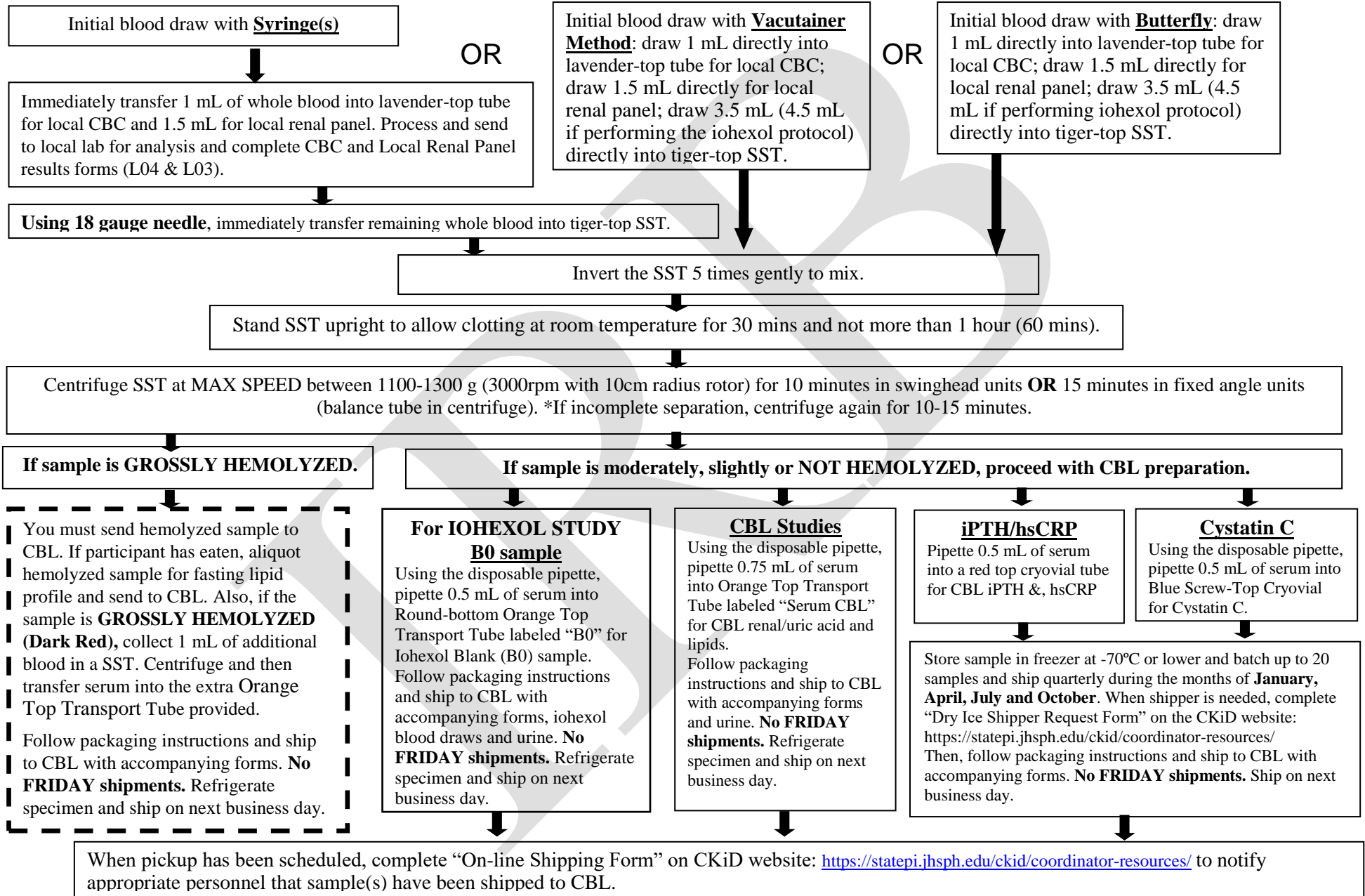
Collect **7-8** mL from all participants (regardless of weight)

Immediately transfer (**using 18 gauge needle**) or draw:

- 4.5 mL into Tiger-Top SSTs for CBL (renal panel/B0, uric acid, lipid panel & cystatin C)
- 1 mL in lavender-top tube for local CBC (*tube not provided in CBL kit*)
- 1.5 mL in appropriate tube (*not provided*) for local Renal Panel
- **1 mL of additional blood in SST for CBL (if initial sample is GROSSLY HEMOLYZED)**

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## SECTION C: V1a POST-TRANSPLANT VISIT BLOOD DRAW PROCESSING



## SPECIMEN COLLECTION FORM for Baseline Post-Transplant Visit (TL01)

C1. ACTUAL TIME OF BLOOD DRAW \_\_\_\_\_ : \_\_\_\_\_ 1 = AM 2 = PM

**PROMPT: IF SUSPECTED BLOOD DRAW ADVERSE EVENT (i.e., infection), complete Adverse Event (ADVR) Form**

<b>Reasons Code List*</b>	1 = Not required 2 = Difficult Blood Draw 3 = Participant Refused	4 = Red Blood Cell Contamination 5 = Inadvertently Destroyed 6 = Oversight	7 = Exceed maximum allowable volume
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Sample Type (Required Volume in Top Color Tube Type):	(a) Sample Obtained:	(b) If No, specify reason *SEE CODE LIST ABOVE	(c) Additional Requirements:
	Yes      No		
C2. Renal/ Uric Acid Chemistries (2.0 mL in Tiger Top SST)	1      2 (skip to c→)	_____ (skip to C3)	Indicate the appearance of the serum after centrifuging. Grossly (Dark Red).....1 Moderately (Red/Light Red).....2 Slightly (Pink).....3 Not Hemolyzed (Yellow).....4
C3. Cystatin C (1.0 mL in Tiger Top SST)	1      2 (skip to c→)	_____ (skip to C4)	Date Frozen: ____/____/_____ M M D D Y Y Y Y
C4. Serum for ipth & hsCRP (1.0 mL in Tiger Top SST)	1      2 (skip to c→)	_____ (skip to C5)	Date Frozen: ____/____/_____ M M D D Y Y Y Y
C5. Local CBC (1.0 mL in Lavender Top tube)	1      2 (skip to C5)	_____ (skip to C6)	<b>N/A</b>
C6. Local Renal Panel (1.5 mL in Local SST)	1      2 (skip to D1)	_____ (skip to C7)	<b>N/A</b>
C7. Serum for Fasting Lipid Panel (0.5 mL in Tiger Top SST)	1      2 (skip to c→)	_____ (skip to C8)	<b>Did the participant fast after midnight?</b> Yes.....1 No.....2*

\*If the participant did not fast, the Nephron Lipid Report will indicate that the participant did not fast.  
Sites can obtain results for lab values that have been identified as "KEY VARIABLES". To obtain results, go the CKiD Nephron Website:  
<https://statepiaps8.jhsph.edu/nephron/groups/aspproc/>, click on "Report Menu" and choose the appropriate lab report (i.e., Selected Renal Panel Lab Variables Report.)

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## IOHEXOL PROTOCOL

- C8. Is the participant completing iohexol study visit? Yes..... 1  
No..... 2 → (End Form)

## SECTION D: IOHEXOL STUDY PROTOCOL

### INFUSION SYRINGE WEIGHT

- D1. **SCALE MUST BE FIRST ZEROED BEFORE WEIGHING. REMOVE ALUMINUM FOIL PRIOR TO WEIGHING THE SYRINGE. THE SAME SCALE MUST BE USED TO WEIGH THE SYRINGE PRE AND POST IOXEHOL INFUSION.**
- a. Syringe Weight **Pre- Iohexol Infusion:** \_\_\_\_ . \_\_\_\_ (g)
- b. Syringe Weight **Post- Iohexol Infusion:** \_\_\_\_ . \_\_\_\_ (g) (Post-Infusion Weight should be **at least 6.0g** less than Pre-Infusion Weight. If Post-Infusion Weight is not at least 6g less, please confirm.)

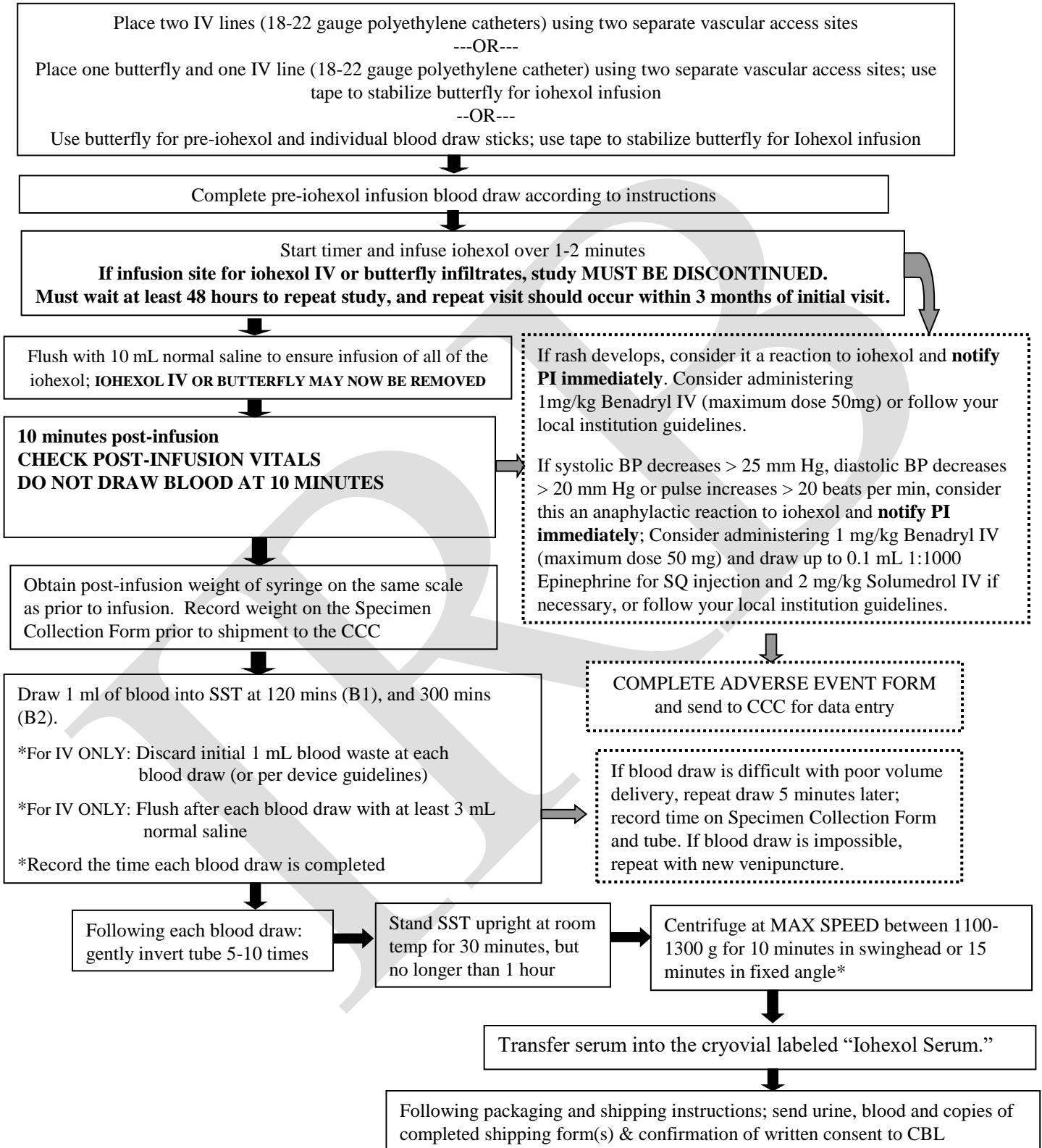
**PRE AND POST SYRINGE WEIGHT MUST BE OBTAINED IN ORDER TO CALCULATE PARTICIPANT'S GFR.**

**IOHEXOL – Refer to Instructions for Iohexol Infusion and GFR Blood Draws Flow Chart on Page 6**

- **BEFORE INFUSING 5 mL of IOHEXOL, SET TIMER = 0. SIMULTANEOUSLY START TIMER AND BEGIN IOHEXOL INFUSION**
- **COMPLETE INFUSION BETWEEN 1 TO 2 MINS.**
- **LEAVE TIMER RUNNING THROUGHOUT IOHEXOL INFUSION AND SUBSEQUENT BLOOD DRAWS**

# SPECIMEN COLLECTION FORM for Baseline Post-Transplant Visit (TL01)

## Instructions for Iohexol Infusion and GFR Blood Draws



**Physician should be immediately available (in person or by phone) during Iohexol Infusion  
Encourage fluids throughout the visit.**

\*1100-1300 g = 3000 rpm with 10 cm radius rotor

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### E1. IOHEXOL INFUSION

a. INFUSION START TIME: \_\_\_\_\_ : \_\_\_\_\_ 1 = AM 2 = PM

- DO NOT DRAW BLOOD FROM THE IV SITE WHERE IOHEXOL WAS INFUSED. ANOTHER IV SITE MUST BE USED.
- WASTE 1 mL OF BLOOD IF DRAWING FROM A SALINE/HEPARIN LOCK (OR PER DEVICE GUIDELINES).
- COLLECT 1 mL OF BLOOD FOR EACH IOHEXOL BLOOD DRAW IN THE PROVIDED SST.
- **RECORDING THE EXACT NUMBER OF MINUTES ON THE TIMER IS MORE IMPORTANT THAN DRAWING THE BLOOD EXACTLY AT 120 & 300 MINUTES AFTER IOHEXOL INFUSION. FOR EXAMPLE, IF BLOOD IS DRAWN AT 133 MINS INSTEAD OF 120 MINS, DOCUMENT BLOOD DRAWN @ 133 MINS.**
- TIME SHOULD BE RECORDED IMMEDIATELY AFTER EACH BLOOD SAMPLE IS OBTAINED (i.e., B1, B2).

**POST VITALS SHOULD BE TAKEN 10 MINUTES AFTER INFUSION  
USING LOCAL BLOOD PRESSURE MEASUREMENT (i.e. DINAMAP)**

- If rash develops after Iohexol Infusion, consider it a reaction to Iohexol and notify PI immediately. Consider administration of 1 mg/kg Benadryl IV (maximum dose: 50 mg Benadryl IV) or follow your local institution guidelines.
- In the rare event that systolic BP decreases more than 25 mm Hg, diastolic BP decreases more than 20 mmHg, or pulse increases more than 20 beats per min, notify PI immediately to evaluate reaction and complete the Adverse Event (ADVR) Form. Consider the possibility of an anaphylactic reaction to Iohexol. Consider administration of 1 mg/kg Benadryl IV (maximum dose: 50 mg Benadryl IV). Draw up to 0.1 mL 1:1000 Epinephrine for SQ injection and 2 mg/kg Solumedrol IV for administration as ordered by physician, or follow your local institution guidelines.

#### (i) Post Vitals:

E2a.	Post- infusion blood pressure:	_____ / _____
b.	Post-infusion temperature:	_____ . _____ 1 = °C Typical range: <b>36.1 – 38.3</b> 2 = °F Typical range: <b>94.5 – 100.6</b>
c.	Post-infusion number of heart beats per minute:	_____
d.	Post-infusion respirations per minute:	_____

## SPECIMEN COLLECTION FORM for Baseline Post-Transplant Visit (TL01)

**INVERT TUBE 5-10 TIMES AFTER EACH BLOOD DRAW**  
**LET SST TUBE STAND 30 MINUTES (BUT NO LONGER THAN 1 HOUR)**  
**CENTRIFUGE AT MAX SPEED BETWEEN 1100-1300g (3000rpm with 10cm radius rotor) for 10 MINUTES IN SWING HEAD**  
**OR 15 MINUTES IN FIXED ANGLE (BALANCE TUBES IN CENTRIFUGE)**

	ALL TIMES should be documented from the initial infusion time	(i) ACTUAL HOURS/ MINUTES on TIMER	(ii) ONLY if Timer malfunctions, record Clock Time using the same clock used for E1a	(iii) Difficult Blood Draw:		(iv) Blood Drawn via Venipuncture		(v) Blood Volume Collected (1 mL):	(vi) Centrifuged at Clinical Site:	
				Yes	No	Yes	No		Yes	No
E3a.	<b>B1 2 hrs</b> (120 min):	___ hr ___ mins	___ : ___ 1 = AM 2 = PM	1 (Skip to b)	2	1	2	___ . ___ mL	1 (Skip to E4a)	2 (Skip to E4a)
b.	<b>B1 2<sup>nd</sup></b> attempt:	___ hr ___ mins	___ : ___ 1 = AM 2 = PM	1	2	1	2	___ . ___ mL	1	2
E4a.	<b>B2 5 hrs</b> (300 min):	___ hr ___ mins	___ : ___ 1 = AM 2 = PM	1 (Skip to b)	2	1	2	___ . ___ mL	1 (END FORM)	2 (END FORM)
b.	<b>B2 2<sup>nd</sup></b> attempt:	___ hr ___ mins	___ : ___ 1 = AM 2 = PM	1	2	1	2	___ . ___ mL	1	2