SPECIMEN COLLECTION FORM for Visit 4 (L41)

CKiD Chronic Kidney Disease in Children Cohort Study

SECTION A: GENERAL INFORMATION

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

|__| - |__|__| - |__|__|__|

A2. CKiD VISIT #: ___ ____

A3. FORM VERSION: 0 6 / 0 1 / 0 8

A4. SPECIMEN COLLECTION DATE: ___ ___/ ___ ___/ ___ ___ ___ ___
M M D D Y Y Y Y

A5. FORM COMPLETED BY (INITIALS): ___ ___ ___

A6. Is this study visit an accelerated visit? Yes..... 1
No..... 2

The following samples should be collected.

Samples:	**Shipped to**	**Shipped:**
Serum	**CBL**	**IMMEDIATELY**
Serum	**CBL**	**Batched (Ship in Jan, Apr, Jul or Oct)**
Iohexol Blood	**CBL**	**IMMEDIATELY**
Urine	**CBL**	**IMMEDIATELY**

If consent is obtained for biological sample, collect the following:

Samples:	**Shipped to:**	**Shipped:**
Serum (Biological)	**NIDDK Biosample Repository**	**Batched (Ship in Jan, Apr, Jul or Oct)**
Plasma (Biological)	**NIDDK Biosample Repository**	**Batched (Ship in Jul, Apr, Jul or Nov)**
Urine (Biological)	**NIDDK Biosample Repository**	**Batched (Ship in Jul, Apr, Jul or Nov)**
Toenail Clippings (Biological)	**NIDDK Biosample Repository**	**IMMEDIATELY**

Chronic Kidney Disease in Children

SECTION B: PREGNANCY TEST AND FIRST MORNING URINE COLLECTION

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 FALL WITHIN 72 HOURS BEFORE GFR TESTING DATE.

B2. a. Urine pregnancy test date: ___ ___/ ___ ___/ ___ ___ ___ ___
M M D D Y Y Y Y

b. Urine pregnancy results:
Positive..... 1 **(END; COMPLETE DISENROLLMENT FORM)**
Negative..... 2

B3. Is this study visit a Make-Up GFR visit?

Yes..... 1
No..... 2 **(Skip to B5)**

B3a. Make-up GFR date:

___ ___/ ___ ___/ ___ ___ ___ ___
M M D D Y Y Y Y

MAKE-UP GFR VISIT PROMPT: COLLECT 1.0 mL OF BLOOD IN THE PROVIDED SST LABELED B0 BEFORE THE IOHEXOL INFUSION.
(Remember to waste 1 cc if the blood was not collected from a butterfly.)

B4. Indicate reason(s) for a Make-Up GFR visit: **(Circle "Yes" or "No" for each):**

	Yes	No
IV infiltration.....	1	2
Inability to successfully draw 4 blood samples for Iohexol.....	1	2
Other reason.....	1	2 **(Skip to F1)**

Specify:_____**(Skip to F1)**

FIRST MORNING URINE COLLECTION

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 into a specimen container provided by central biochemistry laboratory (containers were shipped in batches to each site).

↓

Pour 10 to 14.5 mL of urine into dark blue top urine collection tube and 5 to 14.5 mL into a second light blue top urine collection tube (provided by CBL).

↓

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

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

Sample Type (Required Volume in Top Color Tube Type):	**(a) Sample Obtained:** Yes / No	**(b) If No, specify reason** *SEE CODE LIST ABOVE	**(c) Additional Requirements:**
B5. Urine Creatinine, Urine Protein, Urine Albumin (10.0 mL–14.5 mL in Dark Blue Top tube)	1 **(skip to c→)** / 2	___ ___ **(skip to B6)**	i. Is this a first morning urine sample? Yes.....1 No.....2 ii. Time of Collection: __ __ : __ __ 1 = am, 2 = pm
B6. Urine (Heavy Metals) (5.0-14.5 mL in Light Blue Top tube)	1 **(skip to C1)** / 2	___ ___ **(skip to C1)**	NA

Encourage fluids throughout the visit.

↓

Place two IV lines (18-22 gauge polyethylene catheters); using two separate vascular access sites
--OR---
Place one butterfly and one IV line (18-22 gauge polyethylene catheter); using two separate vascular accesssites; use tape to stabilize butterfly for Iohexol infusion

↓

Complete Pre-Iohexol Infusion (B0) blood draw according to MOP instructions/flowchart on page 4.
NOTE: If patient has had a local CBC drawn within the past 30 days, those CBC results may be used instead of drawing another CBC and blood draw amounts on pre-iohexol infusion (B0) blood draw can be decreased by 1 ml.

SECTION C: PRE-IOHEXOL INFUSION (B0) BLOOD DRAW

For Initial Blood Draw with Syringe, Vacutainer OR Butterfly Method:
Select the Type of Consent Obtained (options 1 through 2) That Pertain to the CKiD Participant:

1 **If participant consented to BIOLOGICAL samples:**
Collect **20.5-23.0** mL if participant is **< 30 kg** **OR** **24.5-27.0** mL if participant is **≥ 30 kg**.

If **< 30 kg**, immediately transfer **(using 18-22 gauge needle)** or draw:
- 12.5 mL into (2) Tiger-Top SSTs for CBL & NIDDK BR
- 3 mL into (1) PST for NIDDK Biosample Repository
- 1 mL into Tan-Top tube for heavy metal
- 1 mL in lavender-top tube for local CBC *(tube not provided in CBL kit)*
- 3 mL in appropriate tube *(not provided)* for local Renal Panel
- ***2.5 mL of additional blood in SST for CBL (if initial sample is GROSSLY HEMOLYZED)***

If **≥ 30 kg**, immediately transfer **(using 18-22 gauge needle)** or draw:
- 14.5 mL into (2) Tiger-Top SSTs for CBL & NIDDK BR
- 5 mL into (2) PST for NIDDK Biosample Repository
- 1 mL into Tan-Top tube for heavy metal
- 1 mL in lavender-top tube for local CBC *(tube not provided in CBL kit)*
- 3 mL in appropriate tube *(not provided)* for local Renal Panel
- ***2.5 mL of additional blood in SST for CBL (if initial sample is GROSSLY HEMOLYZED)***

2 **If participant did NOT consent to BIOLOGICAL samples:**
Collect **14.5-17.0** mL from all participants (regardless of weight) as specified below.

Immediately transfer (using 18 gauge needle) or draw:
- 9.5 mL into (2) Tiger-Top SSTs for CBL
- 1 mL into Tan-Top tube for heavy metal
- 1 mL in lavender-top tube for local CBC *(tube not provided in CBL kit)*
- 3 mL in another tube *(not provided)* for local Renal Panel
- ***2.5 mL of additional blood in SST for CBL (if initial sample is GROSSLY HEMOLYZED)***

PROCESSING OF PRE-IOHEXOL INUSION BLOOD FOR CBL & NIDDK BR

Invert the SST & PST 5-10 times gently to mix.

Stand SST upright to allow clotting at room temperature for 30 mins and not more than 1 hour (60 mins).

Centrifuge SST & PST at MAX SPEED (between 1100-1300 g) for 10 minutes in swinghead units **OR** 15 minutes in fixed angle units (balance tube in centrifuge).*If incomplete separation, centrifuge again for 10-15 minutes.

If sample is GROSSLY HEMOLYZED.

You must send hemolyzed sample to CBL for Pre-Iohexol level. Also, if the sample is **GROSSLY HEMOLYZED (Dark Red),** collect 2.5 mL of additional blood at **B1, B2, B3** or **B4.** Centrifuge and then transfer serum into the extra Clear-Top with Red Rink Tube provided.

If sample is moderately, slightly or NOT HEMOLYZED, proceed with CBL and NIDDK BR preparation.

B0

Using the disposable pipette, pipette 0.5 mL of serum into Clear-Top with Red Ring Transport Tube labeled "B0" for B0 sample. Follow packaging instructions and ship to CBL with accompanying forms, Iohexol blood draws, TAN-TOP blood tube, and urine. **No FRIDAY shipments.** Refrigerate specimen and ship on next business day.

CBL Chemistries

Using the disposable pipette, pipette 3.5 mL of serum into Clear-Top with Red Ring Transport Tube labeled "Serum CBL" for CBL chemistries, Serum Creatinine, iron, uric acid and lipids. Follow packaging instructions and ship to CBL with accompanying forms, iohexol blood draws, TAN-TOP blood tube, and urine. **No FRIDAY shipments.** Refrigerate specimen and ship on next business day.

Cystatin C

Using the disposable pipette, pipette 0.5 mL of serum into Blue Screw-Top Cryovial for Cystatin C.
Store sample in freezer at -70°C or lower, batch up to 20 samples and ship on dry ice every four months to the CBL. When shipper is needed, complete "Cystatin C Shipper Request Form" on the CKiD website: http://www.statepi.jhsph.edu/ckid/admin/
Then, follow packaging instructions and ship to CBL with accompanying forms. **No FRIDAY shipments.** Ship on next business day.

NIDDK BR

Pipette 1.5 mL (<30kg) or 2.5 mL (≥ 30kg) of serum into clear top cryovial & 1.5 or 2.5 mL of plasma into cryovial into green cap insert.
**If there is any extra serum and/or plasma, then pipette the extra serum into the clear top cryovial marked "SERUM (Extra)" and the extra plasma in green cap insert cryovial marked "PLASMA (Extra)."*
Store samples in freezer at -70°C or lower, & batch up to 40 samples and ship on dry ice in January, April, July or October to the NIDDK BR. When shipper is needed, complete "NIDDK BR Shipper Request Form" on the CKiD website: http://www.statepi.jhsph.edu/ckid/admin/.
Then, follow packaging instructions.

When pickup has been scheduled, complete "On-line Shipping Form" on CKiD website: http://www.statepi.jhsph.edu/ckid/admin/ to notify the appropriate personnel from the CBL and the NIDDK BR.

SPECIMEN COLLECTION FORM for Visit 4 (L41)

C1. ACTUAL TIME OF PRE-IOHEXOL INFUSION (B0) BLOOD DRAW ____ ____ : ____ ____ 1 = AM 2 = PM

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

Reasons Code List*: 1= Not required; 2 = Difficult Blood Draw; 3 = Participant Refused; 4 = Red Blood Cell Contamination; 5 = Inadvertently Destroyed; 6 = Oversight

Sample Type (Required Volume in Top Color Tube Type):	(a) Sample Obtained: Yes / No	(b) If No, specify reason *SEE CODE LIST ABOVE	(c) Additional Requirements:
C2. Renal/Iron/Uric Acid Chemistries (7.0 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 C4a)**	Date Frozen: ___ ___ /___ ___ /___ ___ ___ ___ M M D D Y Y Y Y
C4a Local CBC (1.0 mL in Lavender Top tube)	1 2 **(skip to C4b)**	___ ___ **(skip to C4b)**	**N/A**
C4b Local Renal Panel (3.0 mL in Local SST)	1 2 **(skip to C5)**	___ ___ **(skip to C5)**	**N/A**
C5. Serum for Fasting Lipid Panel (1.5 mL in Tiger Top SST)	1 2 **(skip to c→)**	___ ___ **(skip to C6)**	**Did the child fast after midnight?** Yes…….....1 No…….....2*
C6. Whole blood for Heavy Metals (1.0 mL in Tan-Top tube)	**1** **2** **(skip to C7)**	___ ___ **(skip to C7)**	**N/A**

*If the child did not fast, the lipid results will be invalid and therefore will not be reported on the Nephron Lipid Report.

Sites can obtain results for lab values that have been identified as "KEY VARIABLES". To obtain results, go the CKiD Nephron Website: **https://statepiaps.jhsph.edu/nephron/groups/aspproc/**, click on "Report Menu" and choose the appropriate lab report (i.e., Selected Renal Panel Lab Variables Report.)

C7. Did the participant consent to have biological samples (i.e., serum, plasma and urine samples) stored at the NIDDK Biosample Repository?

Yes..... 1

No..... 2 **(Skip to E2)**

Reasons Code List*:	1= Not required	3 = Participant Refused	5 = Inadvertently Destroyed
	2 = Difficult Blood Draw	4 = Red Blood Cell Contamination	6 = Oversight

Sample Type (Required Volume in Top Color Tube Type):	**(a) Sample Obtained:** Yes	No	**(b) If No, specify reason *SEE CODE LIST ABOVE**	**(c) Additional Requirements:**
C8. Serum for NIDDK Biosample Repository (**3.0 mL or **5.0 mL of blood in Tiger Top SST)	1 **(skip to c→)**	2	___ ___ **(skip to C9)**	Date Frozen: ___ ___ /___ ___ /___ ___ ___ ___ M M D D Y Y Y Y
C9. Plasma for NIDDK Biosample Repository (**3.0 mL of blood in one Green Top or **5.0 mL in two Green Top PSTs)	1 **(skip to c→)**	2	___ ___ **(skip to D1)**	Date Frozen: ___ ___ /___ ___ /___ ___ ___ ___ M M D D Y Y Y Y

** Collect 3.0 mL of whole blood for children < 30 kg and 5.0 mL for children ≥ 30 kg

SPECIMEN COLLECTION FORM for Visit 4 (L41)

SECTION D: URINE COLLECTION AND PROCESSING FOR REPOSITORY

Collect FRESH urine into an initial urine collection cup or hat (provided by the site).

Pour 60 mL of FRESH urine into blue top urine collection cup with 4 protease inhibitor (PI) tablets. Do not fill the urine past the 60 mL mark on the collection cup. One protease inhibitor tablet should be used for 10-15 mL of urine **(see Table A)**. For example if 30 mL of urine is collected, ONLY 2 PI tablets are needed. (Like all unused supplies, **unused PI tablets should be returned to the CBL**.)

Invert the urine cup gently 5 – 10 times.

The PI TABLET(s) MUST BE **COMPLETELY** DISSOLVED in the urine.

Once the PI tablets are completely dissolved, pour urine into six (6) 10 mL urine centrifuge tubes. (**For each tube:** remove yellow top cap, pour urine into tube and SCREW cap back onto tube.) Place no more than 10 mL in each tube.
– OR – Sites may also substitute with tubes normally used to centrifuge urine at site.

TABLE A:

Urine Volume	# of PI Tablets
10 – 15 mL	**1**
16 – 30 mL	**2**
31 – 45 mL	**3**
46 – 60 mL	**4**

Centrifuge urine tube(s) at MAX SPEED (between 1100-1300g) for 10 mins (swinghead units) **OR** 15 mins (fixed angle units).

Decant (pour off) the supernates (liquid reaction) into seven (7) 10 mL urine cryovials. Pour no more than 9 mL of urine into each 10 mL cryovial to allow for expansion.

Check that all information is correct on the urine cryovial, promptly freeze and store sample(s) at -70ºC or lower. Batch up to 36 samples quaterly. When shipper is needed, complete "NIDDK Shipper Request Form" on CKiD website: http://www.statepi.jhsph.edu/ckid/admin/.

When pickup has been scheduled, complete "On-line Shipping Form" on CKiD website to notify Heather Higgins, Sandra Ke and Alicia Wentz that sample(s) have been shipped to NIDDK BR.

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

Sample Type (Required Volume in Top Color Tube Type):	(a) Sample Obtained: Yes	(a) Sample Obtained: No	(b) If No, specify reason *SEE CODE LIST ABOVE	(c) Additional Requirements:
D1. Urine for NIDDK Biosample Repository (15.0 - 60.0 mL of urine in specimen container and transferred into collection cup with protease inhibitors)	1 **(skip to c→)**	2	___ ___ **(skip to E2)**	i. Was supernate decanted into urine transport cryovials? Yes.....1 No.....2 ii. Date Frozen: ___ ___ /___ ___ /___ ___ ___ ___ M M D D Y Y Y Y

SECTION E: OPTIONAL 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).

E2. Was a 1st morning 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 F: INFUSION SYRINGE WEIGHT

F1. **SCALE MUST FIRST BE ZEROED BEFORE WEIGHING. REMOVE ALUMINUM FOIL PRIOR TO WEIGHING THE SYRINGE. THE SAME SCALE MUST BE USED TO WEIGH THE SYRINGE PRE AND POST IOHEXOL 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 CHILD'S GFR.

SECTION G: IOHEXOL – Refer to Instructions for Iohexol Infusion and GFR Blood Draws Flow Chart on Page 12

- **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

G1. 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.**
- **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, 240 & 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, and B3).**

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).**
- **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.**

(i) Post Vitals:		
G2a.	Post- infusion blood pressure:	___ ___ ___ / ___ ___ ___
b.	Post-infusion temperature:	___ ___ . ___ 1 = ºC 2 = ºF
c.	Post-infusion number of heart beats per minute:	___ ___ ___
d.	Post-infusion respirations per minute:	___ ___

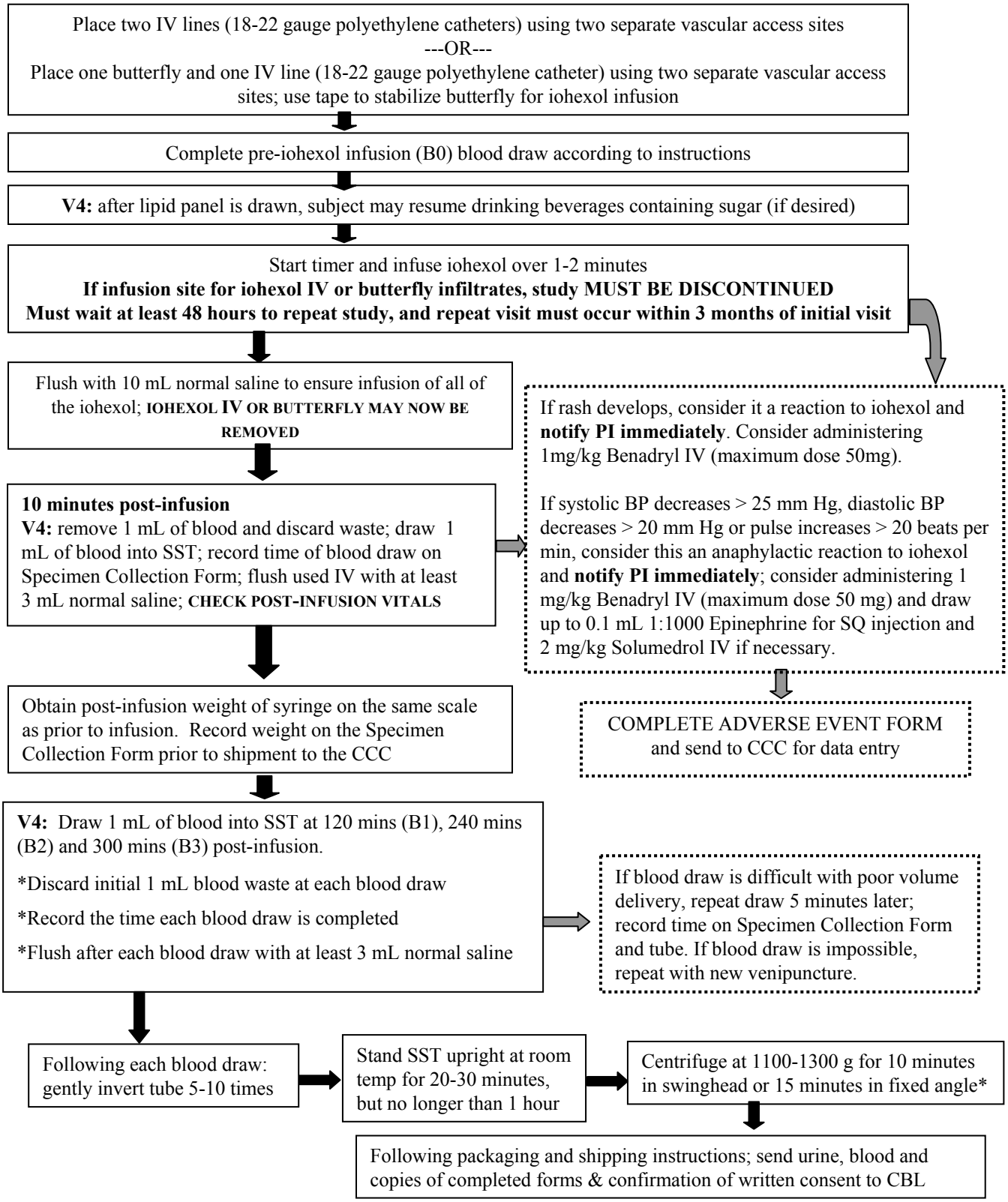
INVERT TUBE 5-10 TIMES AFTER EACH BLOOD DRAW
LET SST TUBE STAND 20-30 MINUTES (BUT NO LONGER THAN 1 HOUR)
CENTRIFUGE AT 1100-1300g (3000rpm with 10cm radius rotor) for 10 MINUTES IN SWING HEAD OR 15 MINUTES IN FIXED ANGLE

	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 G1a	**(iii) Difficult Blood Draw: Yes**	**No**	**(iv) Blood Volume Collected (1 mL):**	**(v) Centrifuged at Clinical Site: Yes**	**No**
G3a.	**B1 2 hrs** (120 min):	___ **hr** ___ ___ mins	__ __ : __ __ 1 = AM 2 = PM	1 **(Skip to b)**	2	___ . ___ mL	1 **(Skip to G4a)**	2 **(Skip to G4a)**
b.	**B1** 2nd attempt:	___ **hr** ___ ___ mins	__ __ : __ __ 1 = AM 2 = PM	1	2	___ . ___ mL	1	2
G4a.	**B2 4 hrs** (240 min):	___ **hr** ___ ___ mins	__ __ : __ __ 1 = AM 2 = PM	1 **(Skip to b)**	2	___ . ___ mL	1 **(Skip to G5a)**	2 **(Skip to G5a)**
b.	**B2** 2nd attempt:	___ **hr** ___ ___ mins	__ __ : __ __ 1 = AM 2 = PM	1	2	___ . ___ mL	1	2
G5a.	**B3 5 hrs** (300 min):	___ **hr** ___ ___ mins	__ __ : __ __ 1 = AM 2 = PM	1 **(Skip to b)**	2	___ . ___ mL	1 **(Skip to H1)**	2 **(Skip to H1)**
b.	**B3** 2nd attempt:	___ **hr** ___ ___ mins	__ __ : __ __ 1 = AM 2 = PM	1	2	___ . ___ mL	1	2

IF FAMILY CONSENTED TO THE COLLECTION OF HAIR AND NAIL SAMPLES, THEN PROCEED TO SECTION H
(SEE QUESTIONS ON PAGE 13).

Chronic Kidney Disease in Children

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

Chronic Kidney Disease in Children

SECTION H:

H1. Did the participant consent to have biological samples (i.e., nail clippings and hair samples) stored at NIDDK Biosample Repository?
Yes..... 1
No..... 2 **(END)**

TOE NAIL CLIPPING COLLECTION

- **At Visit 4, the collection of TOENAILS is preferred. DO NOT** collect fingernail clippings. Also DO NOT collect toenails if participant has nail fungus, or discoloration causing pain or discomfort. If the participant cannot provide toenail clippings, the Study Coordinator may collect fingernail clippings. **FINGERNAILS AND TOENAILS SHOULD NOT BE COLLECTED IN THE SAME CRYOVIAL** (collect one or the other).
- STAINLESS STEEL NAIL CLIPPERS MUST BE USED TO COLLECT NAIL CLIPPINGS. Use small (pediatric size) stainless steel nail clippers (see Figure A) for younger children and large stainless steel nail clippers (see Figure B) for older children. Both sizes are included in the CKiD starter package.
  - Clean the blades of the nail clippers with **SaniZide Plus** prior to use (provided by the CBL).
  - Whenever possible, the Study Coordinator should clip all (10) toenails, removing approximately 1 millimeter from each nail (See Figure C). **Be prepared to collect flyaway nails.**
  - (To use nail clippers, see Figures A – D). Refer to CKiD MOP Section 12 for further details.
  - Carefully place the nail clippings into the cryovial (see Figure D). After using the nail clipper, spray the clipper with **SaniZide Plus** and wipe with clean cloth.

ALTHOUGH PICTURES DEPICT THE CLIPPING OF FINGERNAILS, AT VISIT 4 TOENAIL CLIPPINGS ARE PREFERRED.

Figure A

Figure B

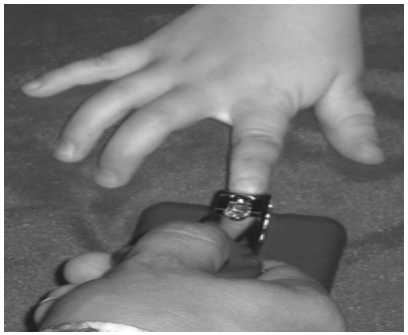
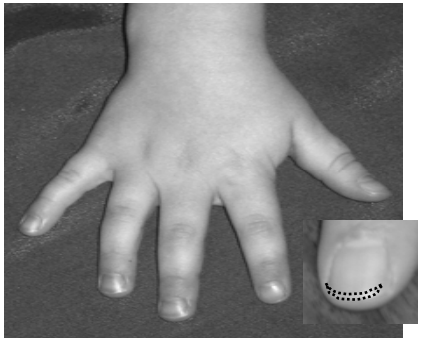


Figure C



Provide 10 nail clippings that are at least 1 mm tall

Figure D

H2. Type of nail clippings collected:

Toenail..... 1

Fingernail..... 2

Neither..... 3 **(Skip to H3b)**

H3. Were 10 nail clippings collected?

Yes..... 1 **(Skip to H4)**

No..... 2

a. How many nail clippings were collected?

___ ___

b. Specify reason "10" nail clippings were not collected: (e.g., Nail fungus or discoloration causing pain or discomfort)

Nail fungus or discoloration..... 1 **(Skip to H4)**

Nails not long enough..... 2 **(Skip to H4)**

Participant Refused..... -7 **(Skip to H4)**

Other..... 3

i. Specify: _____

_____

H4. Does the participant have acrylic on nails?

Yes..... 1

No..... 2