



## Biospecimen Child Blood Instrument

<b>Event:</b>	12-Month
<b>Participant:</b>	Child
<b>Respondent:</b>	Parent/Caregiver
<b>Domain:</b>	Biospecimen
<b>Type of Document:</b>	Instrument
<b>Allowable Mode:</b>	In Person
<b>Allowable Method:</b>	CAPI
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# Biospecimen Child Blood Instrument

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# Biospecimen Child Blood Instrument

## (TIME\_STAMP\_1) PROGRAMMER INSTRUCTION:

- INSERT DATE/TIME STAMP.

**BL0100/(BLOOD\_INTRO).** I would like to collect a sample of {CHILD'S NAME/ the child}'s blood. Before I do so, I will explain this collection and ask you some questions.

## DATA COLLECTOR INSTRUCTIONS:

- EXPLAIN THE CHILD BLOOD COLLECTION PROTOCOL TO THE PARENT OR CAREGIVER .
- IF THE PARENT OR CAREGIVER REFUSED THE COLLECTION, SELECT REFUSED. OTHERWISE, SELECT CONTINUE.

CONTINUE..... 1  
REFUSED..... -1

## PROGRAMMER INSTRUCTIONS:

- PRELOAD PARTICIPANT ID (**P\_ID**) FOR CHILD AND RESPONDENT ID (**R\_P\_ID**) FOR RESPONDENT (MOTHER, FATHER, OTHER).
- PRELOAD CHILD'S FIRST NAME (**BABY\_FNAME**) AND DISPLAY NAME IN "CHILD'S NAME" THROUGHOUT DOCUMENT.
- USE "the child" IN APPROPRIATE FIELDS THROUGHOUT THE INSTRUMENT IF CHILD'S NAME IS REFUSED OR DON'T KNOW.
- PRELOAD **CHILD\_SEX**.
  - o IF **CHILD\_SEX** = 1, DISPLAY "his" AND "he" IN APPROPRIATE FIELDS THROUGHOUT INSTRUMENT.
  - o IF **CHILD\_SEX** = 2, DISPLAY "her" AND "she" IN APPROPRIATE FIELDS THROUGHOUT INSTRUMENT.

## DATA COLLECTOR COMPLETED QUESTION:

**BL0100A/(RESP\_REL).** WHAT IS THE RELATIONSHIP OF THE PARENT OR CAREGIVER TO CHILD?

MOTHER..... 1  
FATHER..... 2  
OTHER..... -5

## PROGRAMMER INSTRUCTIONS:

- IF **BLOOD\_INTRO** = 1 AND **RESP\_REL** = 1 OR 2, GO TO **HEMOPHILIA**.
- IF **BLOOD\_INTRO** = -1 AND **RESP\_REL** = 1 OR 2, GO TO **REFUSAL\_REASON**.
- OTHERWISE, IF **RESP\_REL** = -5, GO TO **RESP\_REL\_OTH**.

**BL0100B/(RESP\_REL\_OTH).**

SPECIFY \_\_\_\_\_

**PROGRAMMER INSTRUCTIONS:**

- LIMIT TEXT TO 255 CHARACTERS.
- IF **BLOOD\_INTRO** = 1, GO TO **HEMOPHILIA**.
- OTHERWISE, GO TO **REFUSAL\_REASON**.

**BL0100C/(REFUSAL\_REASON).** I am sorry that you have chosen not to participate in this collection. Can you tell me why?

**DATA COLLECTOR INSTRUCTION:**

- ENTER REASON FOR REFUSAL.

CHILD HAS FEVER/OTHER ILLNESS..... 1 **(BL2000)**  
OTHER.....-5  
.....  
REFUSED.....-1 **(BL2000)**  
DON'T KNOW.....-2 **(BL2000)**

**BL0100D/(REFUSAL\_REASON\_OTH).**

SPECIFY \_\_\_\_\_ **(BL2000)**

**PROGRAMMER INSTRUCTION:**

- LIMIT TEXT TO 255 CHARACTERS.

**BL0200/(HEMOPHILIA).** Has {CHILD'S NAME/the child} been diagnosed with hemophilia or any bleeding disorder?

**DATA COLLECTOR INSTRUCTION:**

- RESPONSE DETERMINES ELIGIBILITY OF CHILD FOR BLOOD DRAW.

YES..... 1 **(BL1600)**  
NO..... 2  
REFUSED.....-1 **(BL1900)**  
DON'T KNOW.....-2 **(BL1900)**

**BL0300/(BLOOD\_THINNER).** Has {CHILD'S NAME/the child} taken any blood thinning medication, such as Coumadin or Warfarin?

**DATA COLLECTOR INSTRUCTION:**

- RESPONSE DETERMINES ELIGIBILITY OF STUDY PARTICIPANT FOR BLOOD DRAW.

YES..... 1 **(BL1600)**  
NO..... 2  
REFUSED.....-1 **(BL1900)**  
DON'T KNOW.....-2 **(BL1900)**

**BL0400/(CHEMO).** Has {CHILD'S NAME/the child} had cancer chemotherapy within the past 4 weeks?

**DATA COLLECTOR INSTRUCTION:**

- RESPONSE DETERMINES ELIGIBILITY OF STUDY PARTICIPANT FOR BLOOD DRAW.

YES..... 1 **(BL1600)**  
NO..... 2  
REFUSED..... -1 **(BL1900)**  
DON'T KNOW..... -2 **(BL1900)**

**BL0500/(BLOOD\_DRAW).** In the past, have there been any problems with taking blood from {CHILD'S NAME/the child}?

YES..... 1  
NO..... 2 **(LAST\_EAT\_  
TIME/LAST\_EAT\_TIME\_UNIT/LAST\_EAT\_DATE)**  
REFUSED..... -1 **(LAST\_EAT\_  
TIME/LAST\_EAT\_TIME\_UNIT/LAST\_EAT\_DATE)**  
DON'T KNOW..... -2 **(LAST\_EAT\_  
TIME/LAST\_EAT\_TIME\_UNIT/LAST\_EAT\_DATE)**

**BL0600/(BLOOD\_DRAW\_PROB).** What problems did {he/she} have with taking blood in the past?

**DATA COLLECTOR INSTRUCTIONS:**

- SELECT ALL THAT APPLY.
- PROBE: Any others?

FAINTING..... 1  
HEMATOMA..... 2  
UNCOOPERATIVE/FIDGETING/UNCONTROLLABLE  
CRYING..... 3  
BRUISING..... 4  
.....  
OTHER.....-5  
REFUSED.....-1  
DON'T KNOW.....-2

**PROGRAMMER INSTRUCTIONS:**

- IF **BLOOD\_DRAW\_PROB** = ANY COMBINATION OF 1 THROUGH 4, GO TO **LAST\_EAT\_TIME/LAST\_EAT\_TIME\_UNIT/LAST\_EAT\_DATE**
- IF **BLOOD\_DRAW\_PROB** = ANY COMBINATION OF 1 THROUGH 4, AND -5, GO TO **BLOOD\_DRAW\_OTH.**
- IF **BLOOD\_DRAW\_PROB** = -5, GO TO **BLOOD\_DRAW\_OTH.**
- IF **BLOOD\_DRAW\_PROB** = -1 OR -2, DO NOT ALLOW ANY OTHER RESPONSES AND GO TO **LAST\_EAT\_TIME/LAST\_EAT\_TIME\_UNIT/LAST\_EAT\_DATE.**
- **BLOOD\_DRAW\_PROB** CAN ONLY = -1 OR -2; NOT BOTH.

**BL0600A/(BLOOD\_DRAW\_OTH).**

**DATA COLLECTOR INSTRUCTION:**

- IF THERE WERE ANY PROBLEMS WITH A PAST BLOOD DRAW THAT ARE NOT LISTED IN THE PREVIOUS QUESTION, RECORD THE PROBLEM BELOW.

SPECIFY: \_\_\_\_\_

**PROGRAMMER INSTRUCTION:**

- LIMIT TEXT TO 255 CHARACTERS.

**BL0700/(LAST\_EAT\_TIME/LAST\_EAT\_TIME\_UNIT/LAST\_EAT\_DATE).** When was the last time {CHILD’S NAME/the child} had anything to eat or drink other than water?

**DATA COLLECTOR INSTRUCTIONS:**

- RECORD THE LAST TIME CHILD ATE OR DRANK ANYTHING OTHER THAN WATER.
- RECORD THE TIME AS HH:MM, BE SURE TO FILL THE SPACE WITH A ZERO WHEN NECESSARY AND TO MARK THE BOX TO CHOOSE “AM” OR “PM”. FOR EXAMPLE, IF THE LAST TIME CHILD ATE OR DRANK WAS AT 2:05 PM, RECORD “02:05” AND CHOOSE “PM”.
- RECORD THE DATE AS TWO-DIGIT MONTH, TWO-DIGIT DAY, AND FOUR-DIGIT YEAR.

**BL0700A/(LAST\_EAT\_TIME).** LAST TIME ATE OR DRANK – TIME

|\_|\_|:|\_|\_|  
H H M M

REFUSED..... -1  
DON'T KNOW..... -2

**BL0700B/(LAST\_EAT\_TIME\_UNIT).** LAST TIME ATE OR DRANK – AM/PM

AM..... 1  
PM..... 2

**BL0700C/(LAST\_EAT\_DATE).** LAST TIME ATE OR DRANK – DATE

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

REFUSED..... -1  
DON'T KNOW..... -2

**PROGRAMMER INSTRUCTIONS:**

- HARD EDIT: INCLUDE HARD EDIT IF HOURS, MINUTES, MONTH, OR DAY ARE NOT TWO DIGITS. (FILL THE SPACE WITH 0 AS NECESSARY).

- HARD EDIT: INCLUDE HARD EDIT IF HOUR OR MONTH IS NOT BETWEEN 01 AND 12.
- HARD EDIT: INCLUDE HARD EDIT IF MINUTES ARE NOT BETWEEN 00 AND 59.
- HARD EDIT: INCLUDE HARD EDIT IF DAY IS NOT BETWEEN 01 AND 31.
- HARD EDIT: INCLUDE HARD EDIT IF YEAR IS < 2012.
- HARD EDIT: INCLUDE HARD EDIT IF DATE AND TIME IS GREATER THAN CURRENT DATE AND TIME.
- FORMAT DATE AS YYYYMMDD.

**BL1200/(VITAMIN).** Has {CHILD’S NAME/the child} taken a dietary supplement such as vitamins or minerals in the last 8 hours?

YES..... 1  
 NO..... 2  
 REFUSED..... -1  
 DON’T KNOW..... -2

**BL1500/(BLOOD\_COMPLETE).** Thank you for answering my questions. I am now going to prepare to draw blood.

CONTINUE..... 1 (TIME\_STAMP\_2)  
 REFUSED..... -1 (BL2000)

**BL1600.** Because {CHILD’S NAME/the child} {has been diagnosed with a bleeding disorder/uses blood thinners/had cancer chemotherapy}, we will not be able to draw {his/her} blood for this study. (TIME\_STAMP\_5)

**PROGRAMMER INSTRUCTIONS:**

- DISPLAY “has been diagnosed with a bleeding disorder” IF **HEMOPHILIA=1**.
- DISPLAY “uses blood thinners” IF **BLOOD\_THINNER=1**.
- DISPLAY “had cancer chemotherapy” IF **CHEMO=1**.

**BL1900.** Because you do not know or declined to answer questions about {CHILD’S NAME/the child’s} {hemophilia/use of blood thinners/chemotherapy status}, we will not be able to draw {his/her} blood for this study. (TIME\_STAMP\_5)

**PROGRAMMER INSTRUCTIONS:**

- DISPLAY “hemophilia” IF **HEMOPHILIA = -1 OR -2**.
- DISPLAY “use of blood thinners” IF **BLOOD\_THINNER = -1 OR -2**.
- DISPLAY “chemotherapy status” IF **CHEMO = -1 OR -2**.

**BL2000.** That’s fine. Thank you for your time. (TIME\_STAMP\_5)



## BLOOD COLLECTION

### (TIME\_STAMP\_2) PROGRAMMER INSTRUCTION:

- INSERT DATE/TIME STAMP.

### BL2100/(BLOOD\_INST). BLOOD DRAW INSTRUCTIONS

#### DATA COLLECTOR INSTRUCTIONS:

- CONFIRM THAT BLOOD TUBES ARE LABELED AND NOT EXPIRED PRIOR TO COLLECTION OF SPECIMEN.
- BE SURE TO EMPLOY UNIVERSAL PRECAUTIONS TO PREVENT EXPOSURE TO INFECTIOUS DISEASES AT ALL TIMES WHEN HANDLING BIOLOGICAL SPECIMENS. BE SURE TO EXPLAIN EACH PART OF PROCEDURE BEING PERFORMED DURING BLOOD COLLECTION.
- STOP DRAWING BLOOD IF BRUISING OCCURS.
- COLLECTION TUBES SHOULD BE DRAWN IN THE FOLLOWING ORDER:
  - o 3mL Lavender Top AA# # # # # - LV20
  - o 3mL Red top AA# # # # # - RD20
  - o 3mL Red top AA# # # # # - RD21
  - o 3mL Lavender top AA# # # # # - LV21

### BL2100A/(COLLECTION\_LOCATION). COLLECTION LOCATION

#### DATA COLLECTOR INSTRUCTION:

- RECORD WHERE BLOOD COLLECTION OCCURRED.

HOME..... 1  
(CBLOOD\_COLL\_DATE)  
CLINIC..... 2  
(CBLOOD\_COLL\_DATE)  
OTHER LOCATION..... -5

### BL2100B/(COLLECTION\_LOCATION\_OTH).

SPECIFY \_\_\_\_\_

#### PROGRAMMER INSTRUCTION:

- LIMIT TEXT TO 255 CHARACTERS.

### BL2150/(CBLOOD\_COLL\_DATE). DATE CHILD BLOOD SPECIMEN COLLECTED

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

### BL2150A/(CBLOOD\_COLL\_TIME). TIME CHILD BLOOD SPECIMEN COLLECTED

|\_|\_| : |\_|\_|  
H H M M

**BL2150B/(CBLOOD\_COLL\_TIME\_UNIT).** TIME CHILD BLOOD SPECIMEN COLLECTED – AM/PM

AM..... 1  
PM..... 2

**DATA COLLECTOR INSTRUCTION:**

- RECORD THE DATE AS TWO DIGIT MONTH, TWO DIGIT DAY, AND FOUR DIGIT YEAR.

**PROGRAMMER INSTRUCTIONS:**

- HARD EDIT: INCLUDE HARD EDIT IF HOURS, MINUTES, MONTH, OR DAY ARE NOT TWO DIGITS. (FILL THE SPACE WITH 0 AS NECESSARY).
- HARD EDIT: INCLUDE HARD EDIT IF HOUR OR MONTH IS NOT BETWEEN 01 AND 12.
- HARD EDIT: INCLUDE HARD EDIT IF MINUTES ARE NOT BETWEEN 00 AND 59.
- HARD EDIT: INCLUDE HARD EDIT IF DAY IS NOT BETWEEN 01 AND 31.
- HARD EDIT: INCLUDE HARD EDIT IF YEAR IS < 2012.
- HARD EDIT: INCLUDE HARD EDIT IF DATE AND TIME IS GREATER THAN CURRENT DATE AND TIME.
- FORMAT DATE AS YYYYMMDD.

**BL2200.** Thank you for {CHILD’S NAME/the child}'s blood sample.

**DATA COLLECTOR INSTRUCTION:**

- CHECK IF CLOTTING HAS OCCURRED AND APPLY BAND-AID OVER GAUZE.

**BL2400/(TUBE\_TYPE).** ASSIGN TUBE\_TYPE

**PROGRAMMER INSTRUCTIONS:**

- LOOP THROUGH TUBE\_TYPE, SPECIMEN\_ID, TUBE\_STATUS, TUBE\_COMMENTS (IF APPLICABLE) AND TUBE\_COMMENTS\_OTH (IF APPLICABLE) SEQUENTIALLY FOR EACH OF THE FOUR (4) BLOOD TUBES. THEN GO TO COLLECTION\_STATUS.
- DISPLAY CORRECT TUBE\_TYPE FOR EACH LOOP:
  - o IF FIRST CYCLE OF THE LOOP, THEN SET TUBE\_TYPE = 1 AND DISPLAY “3mL Lavender top (LV20).”
  - o IF SECOND CYCLE OF THE LOOP, THEN SET TUBE\_TYPE = 2 AND DISPLAY “3mL Red top (RD20).”
  - o IF THIRD CYCLE OF THE LOOP, THEN SET TUBE\_TYPE = 3 AND DISPLAY “3mL Red top (RD21).”
  - o IF FOURTH CYCLE OF THE LOOP, THEN SET TUBE\_TYPE = 4 AND DISPLAY “3mL Lavender top (LV21).”

**BL2500/(SPECIMEN\_ID).** SPECIMEN\_ID FOR {TUBE\_TYPE}



**BL2700/(TUBE\_COMMENTS).** REASON {TUBE\_TYPE} BLOOD TUBE NOT COLLECTED OR DRAW WAS SHORT.

**DATA COLLECTOR INSTRUCTION:**

- ENTER REASONS {TUBE\_TYPE} WAS NOT COLLECTED OR DRAW WAS SHORT. SELECT ALL THAT APPLY

EQUIPMENT FAILURE.....	1
FAINTING.....	2
LIGHT-HEADEDNESS.....	3
HEMATOMA.....	4
BRUISING.....	5
VEIN COLLAPSED DURING PROCEDURE.....	6
NO SUITABLE VEIN.....	7
UNCOOPERATIVE/FIDGETING/UNCOTROLLABLE CRYING.....	8
PARENT/CAREGIVER REFUSED.....	9
OTHER.....	-5

**PROGRAMMER INSTRUCTIONS:**

- DISPLAY CORRECT **TUBE\_TYPE** AS REFERENCE FOR LOOP:
  - o IF FIRST CYCLE OF THE LOOP, THEN **TUBE\_TYPE** = 1, DISPLAY "3mL Lavender top (LV20)".
  - o IF SECOND CYCLE OF THE LOOP, THEN **TUBE\_TYPE** = 2, DISPLAY "3mL Red top (RD20)".
  - o IF THIRD CYCLE OF THE LOOP, THEN **TUBE\_TYPE** = 3, DISPLAY "3mL Red top (RD21)".
  - o IF FOURTH CYCLE OF THE LOOP, THEN **TUBE\_TYPE** = 4, DISPLAY "3mL Lavender top (LV21)".
- IF **TUBE\_TYPE** = 1, 2, OR 3 AND
  - o **TUBE\_COMMENTS** = ANY COMBINATION OF 1 THROUGH 8, GO TO **TUBE\_TYPE** AND LOOP THROUGH REMAINING BLOOD SPECIMENS.
  - o **TUBE\_COMMENTS** = -5 OR ANY COMBINATION OF 1 THROUGH 8 AND -5, GO TO **TUBE\_COMMENTS\_OTH**.
  - o **TUBE\_COMMENTS** = -1 OR -2, DO NOT ALLOW ANY OTHER RESPONSES, GO TO **TUBE\_TYPE** AND LOOP THROUGH REMAINING BLOOD SPECIMENS.
- IF **TUBE\_TYPE** = 4 AND
  - o **TUBE\_COMMENTS** = ANY COMBINATION OF 1 THROUGH 8, GO TO **COLLECTION\_STATUS**.
  - o **TUBE\_COMMENTS** = -5 OR ANY COMBINATION OF 1 THROUGH 8 AND -5, GO TO **TUBE\_COMMENTS\_OTH**.
  - o **TUBE\_COMMENTS** = -1 OR -2, DO NOT ALLOW ANY OTHER RESPONSES AND GO TO **COLLECTION\_STATUS**.

**BL2700A/(TUBE\_COMMENTS\_OTH)**

SPECIFY \_\_\_\_\_

**PROGRAMMER INSTRUCTIONS:**

- LIMIT TEXT TO 255 CHARACTERS.
- IF **TUBE\_TYPE** = 1, 2, OR 3 GO TO **TUBE\_TYPE** AND LOOP THROUGH REMAINING BLOOD SPECIMENS.
- IF **TUBE\_TYPE** = 4, GO TO **COLLECTION\_STATUS**.

**BL2800/(COLLECTION\_STATUS). BLOOD TUBE COLLECTION OVERALL STATUS**

COLLECTED.....	1
PARTIALLY COLLECTED.....	2
NOT COLLECTED.....	3

**PROGRAMMER INSTRUCTIONS:**

- **COLLECTION\_STATUS** = 1 IF EACH **TUBE\_TYPE** HAS A **TUBE\_STATUS** = 1.
- **COLLECTION\_STATUS** = 2 IF AT LEAST 1 BUT LESS THAN 4 TUBES HAVE A **TUBE\_STATUS** = 1 OR THAT ALL TUBES HAVE A **TUBE\_STATUS** = 2.
- **COLLECTION\_STATUS** = 3 IF EACH **TUBE\_TYPE** HAS A **TUBE\_STATUS** = 3
- IF **COLLECTION STATUS** = 1 OR 2, GO TO **TIME\_STAMP\_3**.
- OTHERWISE, GO TO **OVERALL\_COMMENTS**.

**BL2900/(OVERALL\_COMMENTS). BLOOD COLLECTION OVERALL COMMENTS**

**DATA COLLECTOR INSTRUCTION:**

- ENTER MAIN REASON BLOOD WAS NOT COLLECTED.

SAFETY EXCLUSION.....	1
.....(BLOOD_DRAW_COMMENT)	
PHYSICAL LIMITATION.....	2
.....(BLOOD_DRAW_COMMENT)	
CAREGIVER ILL/EMERGENCY.....	3
.....(BLOOD_DRAW_COMMENT)	
QUANTITY NOT SUFFICIENT.....	4
.....(BLOOD_DRAW_COMMENT)	
CHILD ILL/EMERGENCY.....	5
.....(BLOOD_DRAW_COMMENT)	
NO TIME.....	6
.....(BLOOD_DRAW_COMMENT)	
PARENT/CAREGIVER REFUSED.....	7
.....(BLOOD_DRAW_COMMENT)	
OTHER.....	-5

**BL2900A/(OVERALL\_COMMENTS\_OTH)**

SPECIFY \_\_\_\_\_ (BLOOD\_DRAW\_COMMENT)

**PROGRAMMER INSTRUCTION:**

- LIMIT TEXT TO 255 CHARACTERS.

## BLOOD CENTRIFUGATION

### (TIME\_STAMP\_3) PROGRAMMER INSTRUCTION:

- INSERT DATE/TIME STAMP.

### BL3000/(CENTRIFUGE\_LOCATION). CENTRIFUGATION LOCATION

- **DATA COLLECTOR INSTRUCTIONS:** RECORD WHERE BLOOD WILL BE CENTRIFUGED.

DEFAULT COLLECTION LOCATION.....1 (EQUIP\_ID)  
SPSC..... 2 (TIME\_STAMP\_4)  
OTHER.....-5

### BL3000A/(CENTRIFUGE\_LOCATION\_OTH).

SPECIFY \_\_\_\_\_

### PROGRAMMER INSTRUCTION:

- LIMIT TEXT TO 255 CHARACTERS.

### BL3100/(EQUIP\_ID). EQUIPMENT ID FOR CENTRIFUGE

### DATA COLLECTOR INSTRUCTION:

- ENTER EQUIPMENT ID FOR CENTRIFUGE.

### BL3125/(CENTRIFUGE\_START\_DATE\_TIME). DATE AND TIME CENTRIFUGATION BEGAN

### DATA COLLECTOR INSTRUCTIONS:

- RECORD THE TIME THE BLOOD TUBES WERE PLACED IN THE CENTRIFUGE.
- RECORD THE TIME AS HH:MM, BE SURE TO FILL THE SPACE WITH A ZERO WHEN NECESSARY AND TO CHOOSE "AM" OR "PM." FOR EXAMPLE, IF THE BLOOD TUBES WERE PLACED IN THE CENTRIFUGE AT 2:05 PM, RECORD "02:05" AND CHOOSE "PM."
- RECORD THE DATE AS TWO-DIGIT MONTH, TWO-DIGIT DAY, AND FOUR-DIGIT YEAR.

### BL3125A/(CENTRIFUGE\_START\_TIME). CENTRIFUGE START – TIME

|\_|\_|\_|:|\_|\_|\_|  
H H M M

### BL3125B/(CENTRIFUGE\_START\_TIME\_UNIT). CENTRIFUGE START – AM/PM

AM..... 1

PM..... 2

**BL3125C/(CENTRIFUGE\_START\_DATE).** CENTRIFUGE START – DATE

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

**PROGRAMMER INSTRUCTIONS:**

- HARD EDIT: INCLUDE HARD EDIT IF HOURS, MINUTES, MONTH, OR DAY ARE NOT TWO DIGITS. (FILL THE SPACE WITH 0 AS NECESSARY.)
- HARD EDIT: INCLUDE HARD EDIT IF HOUR OR MONTH IS NOT BETWEEN 01 AND 12.
- HARD EDIT: INCLUDE HARD EDIT IF MINUTES ARE NOT BETWEEN 00 AND 59.
- HARD EDIT: INCLUDE HARD EDIT IF DAY IS NOT BETWEEN 01 AND 31.
- HARD EDIT: INCLUDE HARD EDIT IF YEAR IS < 2012.
- HARD EDIT: INCLUDE HARD EDIT IF DATE AND TIME IS GREATER THAN CURRENT DATE AND TIME.
- FORMAT DATE AS YYYYMMDD.

**BL3130/(CENTRIFUGE\_END\_DATE\_TIME).** TIME CENTRIFUGATION ENDED

**DATA COLLECTOR INSTRUCTIONS:**

- RECORD THE TIME CENTRIFUGATION WAS COMPLETED.
- RECORD THE TIME AS HH:MM, BE SURE TO FILL THE SPACE WITH A ZERO WHEN NECESSARY AND TO MARK THE BOX TO CHOOSE “AM” OR “PM.” FOR EXAMPLE, IF CENTRIFUGATION WAS COMPLETED AT 2:05 PM, RECORD “02:05” AND CHOOSE “PM.”
- RECORD THE DATE AS TWO-DIGIT MONTH, TWO-DIGIT DAY, AND FOUR-DIGIT YEAR.

**BL3130A/(CENTRIFUGE\_END\_TIME).** CENTRIFUGE END – TIME

|\_|\_|\_| : |\_|\_|\_|  
H H M M

**BL3130B/(CENTRIFUGE\_END\_TIME\_UNIT).** CENTRIFUGE END – AM/PM

AM..... 1  
PM..... 2

**BL3130C/(CENTRIFUGE\_END\_DATE).** CENTRIFUGE END – DATE

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

**PROGRAMMER INSTRUCTIONS:**

- HARD EDIT: INCLUDE HARD EDIT IF HOURS, MINUTES, MONTH, OR DAY ARE NOT TWO DIGITS. (FILL THE SPACE WITH 0 AS NECESSARY.)
- HARD EDIT: INCLUDE HARD EDIT IF HOUR OR MONTH IS NOT BETWEEN 01 AND 12.
- HARD EDIT: INCLUDE HARD EDIT IF MINUTES ARE NOT BETWEEN 00 AND 59.

- HARD EDIT: INCLUDE HARD EDIT IF DAY IS NOT BETWEEN 01 AND 31.
- HARD EDIT: INCLUDE HARD EDIT IF YEAR IS < 2011.
- HARD EDIT: INCLUDE HARD EDIT IF DATE AND TIME IS GREATER THAN CURRENT DATE AND TIME OR LESS THAN **CENTRIFUGE\_START\_TIME** AND/OR **CENTRIFUGE\_START\_DATE**.
- FORMAT DATE AS YYYYMMDD.

**BL3140/(CENTRIFUGE\_TEMP\_MEASURE).** TEMPERATURE OF CENTRIFUGE

**DATA COLLECTOR INSTRUCTIONS:**

- IF ABLE TO MEASURE CENTRIFUGE TEMPERATURE, SELECT “TEMPERATURE.”
- IF NOT ABLE TO MEASURE CENTRIFUGE TEMPERATURE, THEN SELECT “NOT ABLE TO MEASURE” AND THE REASON THE TEMPERATURE COULD NOT BE RECORDED.
- OTHERWISE, SELECT OTHER AND SPECIFY  
 TEMPERATURE..... 1 (**CENTRIFUGE\_TEMP/CENT\_TEMP\_POSNEG**)  
 NOT ABLE TO MEASURE – THERMOMETER BROKEN..... 2 (**BLOOD\_HEMOLYZE**)  
 NOT ABLE TO MEASURE – THERMOMETER NOT AVAILABLE..... 3 (**BLOOD\_HEMOLYZE**)  
 NOT ABLE TO MEASURE – OTHER.....-5

**BL3140A/(CENTRIFUGE\_TEMP\_MEASURE\_OTH).**

SPECIFY \_\_\_\_\_ (**BLOOD\_HEMOLYZE**)

**PROGRAMMER INSTRUCTION:**

- LIMIT TEXT TO 255 CHARACTERS.

**BL3150/(CENTRIFUGE\_TEMP/CENT\_TEMP\_POSNEG).** TEMPERATURE OF CENTRIFUGE

**DATA COLLECTOR INSTRUCTIONS:**

- RECORD THE TEMPERATURE READING ON THE DIGITAL THERMOMETER ATTACHED TO THE CENTRIFUGE AT THE TIME THAT THE BLOOD TUBES ARE REMOVED AFTER CENTRIFUGATION.
- ENTER TEMPERATURE IN DEGREES CELSIUS.

**BL3150A/(CENTRIFUGE\_TEMP).** RECORD THE TEMPERATURE TO THE FIRST DECIMAL POINT.

|\_|\_|\_|. |\_| °C

**PROGRAMMER INSTRUCTIONS:**

- SOFT EDIT: DISPLAY SOFT EDIT IF TEMPERATURE IS < 15.0 °C OR > 25.0°C
- SOFT EDIT: DISPLAY SOFT EDIT IF NO VALUE ENTERED IN THE FIRST DECIMAL POINT.

**BL3150B/(CENT\_TEMP\_POSNEG).** RECORD IF THE TEMPERATURE IS A POSITIVE OR NEGATIVE VALUE.





**DATA COLLECTOR INSTRUCTIONS:**

- IF TEMPERATURE IS ZERO OR ABOVE, RECORD "POSITIVE."
- IF TEMPERATURE IS BELOW ZERO, RECORD "NEGATIVE."

POSITIVE..... 1  
 NEGATIVE..... 2

**BL3160/(BLOOD\_HEMOLYZE). DID BLOOD HEMOLYZE?**

**DATA COLLECTOR INSTRUCTION:**

- RECORD WHETHER HEMOLYSIS OCCURRED IN ONE OR MORE OF THE BLOOD TUBES.

YES, ALL TUBES HEMOLYZED..... 1  
 YES, AT LEAST ONE TUBE HEMOLYZED AND AT  
 LEAST ONE TUBE DID NOT HEMOLYZE..... 2  
 NO, NONE OF THE TUBES HEMOLYZED..... 3 (TIME\_STAMP\_4)

**BL3170/(V1\_TUBE\_HEMOLYZE) INDICATE WHICH TUBE(S) HEMOLYZED.**

**DATA COLLECTOR INSTRUCTION:**

- SELECT ALL THAT APPLY:

(TUBE\_TYPE)= 1, 3mL Lavender top (LV20)..... 1  
 (TUBE\_TYPE)= 2, 3mL Red top (RD20)..... 2  
 (TUBE\_TYPE)= 3, 3mL Red top (RD21)..... 3  
 (TUBE\_TYPE)= 4, 3mL Lavender top (LV21)..... 4

**PROGRAMMER INSTRUCTION:**

- DISPLAY THE FOLLOWING RESPONSE CATEGORIES:

(TUBE\_TYPE)= 1, 3mL Lavender top (LV20)..... 1  
 (TUBE\_TYPE)= 2, 3mL Red top (RD20)..... 2  
 (TUBE\_TYPE)= 3, 3mL Red top (RD21)..... 3  
 (TUBE\_TYPE)=4, 3mL Lavender top (LV21)..... 4

**BL3180/(CENTRIFUGE\_COMMENT). CENTRIFUGE OTHER COMMENTS**

**DATA COLLECTOR INSTRUCTION:**

- ENTER CENTRIFUGE COMMENTS:

NO COMMENTS..... 1 (TIME\_STAMP\_4)  
 COMMENT..... 2

**BL3185/(CENTRIFUGE\_COMMENT\_OTH).**

**DATA COLLECTOR INSTRUCTION:**

- ENTER ANY CENTRIFUGE COMMENT.

SPECIFY \_\_\_\_\_

**PROGRAMMER INSTRUCTION:**

- LIMIT FREE TEXT TO 255 CHARACTERS.

**PREPARATION FOR BLOOD TUBE TRANSPORT**

**(TIME\_STAMP\_4) PROGRAMMER INSTRUCTION:**

- INSERT DATE/TIME STAMP.

**BL3200/(COLD\_TEMP\_MEASURE).** TEMPERATURE OF REFRIGERATED CHAMBER

**DATA COLLECTOR INSTRUCTIONS:**

- PREPARE THE TUBES FOR TRANSPORT IN EITHER THE REFRIGERATED CLAMSHELL OR IN THE AMBIENT TUBE HOLDER, DEPENDING ON THE TUBE TYPE AND LOCATION OF CENTRIFUGATION.
- PLACE A LOWER THRESHOLD (0.0°C) MONITOR INSIDE THE REFRIGERATED CLAMSHELL AND INSIDE THE AMBIENT TUBE HOLDER (IF APPLICABLE).
- ACTIVATE AN UPPER THRESHOLD (20.0°C) MONITOR AND AFFIX IT TO THE OUTSIDE OF THE REFRIGERATED CLAMSHELL.
- IF ABLE TO MEASURE TEMPERATURE, THEN SELECT "TEMPERATURE." ENTER THE TEMPERATURE OF THE DIGITAL THERMOMETER IN THE TRANSPORT COOLER AT THE TIME THE DATA COLLECTOR PUTS THE SPECIMEN IN THE COOLER.
- IF NOT ABLE TO MEASURE TEMPERATURE, THEN SELECT "NOT ABLE TO MEASURE."
- IF THERE ARE NOT ANY TUBES THAT REQUIRE REFRIGERATED TRANSPORT TEMPERATURES, THEN SELECT "NOT APPLICABLE."

TEMPERATURE.....1 (**COLD\_TEMP/  
COLD\_TEMP\_POSNEG**)  
NOT ABLE TO MEASURE – THERMOMETER BROKEN.....2  
(**COLD\_THRESHOLD\_LOW**)  
NOT ABLE TO MEASURE – THERMOMETER NOT  
AVAILABLE.....3  
(**COLD\_THRESHOLD\_LOW**)  
NOT ABLE TO MEASURE – OTHER.....-5  
NOT APPLICABLE.....-7  
(**COLD\_THRESHOLD\_LOW**)

**BL3200A/(COLD\_TEMP\_MEASURE\_OTH).**

SPECIFY \_\_\_\_\_ (**COLD\_THRESHOLD\_LOW**)

**PROGRAMMER INSTRUCTION:**

- LIMIT TEXT TO 255 CHARACTERS.

**BL3300/(COLD\_TEMP/COLD\_TEMP\_POSNEG).** RECORD TEMPERATURE OF REFRIGERATED CHAMBER

**DATA COLLECTOR INSTRUCTION:**

- RECORD THE TEMPERATURE OF THE REFRIGERATED CHAMBER OF THE TRANSPORT COOLER.

**BL3300A/(COLD\_TEMP).** ENTER TEMPERATURE IN DEGREES CELSIUS.

|\_|\_| . |\_| °C

**3300B/COLD\_TEMP\_POSNEG).** RECORD IF THE TEMPERATURE IS A POSITIVE OR NEGATIVE VALUE

**DATA COLLECTOR INSTRUCTIONS:**

- IF TEMPERATURE IS ZERO OR ABOVE, RECORD "POSITIVE."
- IF TEMPERATURE IS BELOW ZERO, RECORD "NEGATIVE."

POSITIVE..... 1

NEGATIVE..... 2

**PROGRAMMER INSTRUCTIONS:**

- SOFT EDIT: DISPLAY SOFT EDIT IF TEMPERATURE IS  $\geq 10.0^{\circ}\text{C}$  OR IF  $\leq 0.0^{\circ}\text{C}$ .
- SOFT EDIT: DISPLAY SOFT EDIT IF NO VALUE ENTERED IN THE FIELD FOLLOWING THE DECIMAL POINT.

**BL3400/(COLD\_THRESHOLD\_LOW).** STATUS OF REFRIGERATED CHAMBER LOW THRESHOLD MONITOR

**DATA COLLECTOR INSTRUCTION:**

- RECORD STATUS OF THE LOW THRESHOLD MONITOR IN THE REFRIGERATED CHAMBER OF THE TRANSPORT COOLER.

YES, IN CHAMBER..... 1

NO, NOT REQUIRED..... 2

NO, NOT AVAILABLE..... 3

**BL3500/(COLD\_THRESHOLD\_HIGH).** STATUS OF REFRIGERATED CHAMBER HIGH THRESHOLD MONITOR

**DATA COLLECTOR INSTRUCTION:**

- RECORD STATUS OF THE HIGH THRESHOLD MONITOR IN THE REFRIGERATED COMPARTMENT OF THE COOLER.

YES, IN CHAMBER..... 1

NO, NOT REQUIRED..... 2

NO, NOT AVAILABLE..... 3

**PROGRAMMER INSTRUCTIONS:**

- IF 12-MONTH VISIT, GO TO **TIME\_STAMP\_5**.
- OTHERWISE, GO TO **AMBIENT\_THRESHOLD\_LOW**.

**BL3600/(AMBIENT\_THRESHOLD\_LOW).** STATUS OF AMBIENT LOW THRESHOLD MONITOR

**DATA COLLECTOR INSTRUCTION:**

- RECORD STATUS OF THE LOW THRESHOLD MONITOR IN THE AMBIENT COMPARTMENT OF THE COOLER.

YES, IN CHAMBER..... 1  
NO, NOT REQUIRED..... 2  
NO, NOT AVAILABLE..... 3

**BL3650/(TRANSPORT\_COMMENT). TRANSPORT COMMENT**

NO COMMENTS..... 1 (TIME\_STAMP\_5)  
COMMENT..... 2

**BL3660/(TRANSPORT\_COMMENT\_OTH).**

**DATA COLLECTOR INSTRUCTION:**

- ENTER ANY TRANSPORT COMMENT.

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**PROGRAMMER INSTRUCTION:**

- LIMIT TEXT TO 255 CHARACTERS.

**BL3700/(BLOOD\_DRAW\_COMMENT). ADDITIONAL BLOOD DRAW COMMENT**

**DATA COLLECTOR INSTRUCTION:**

- ENTER ANY ADDITIONAL BLOOD COLLECTION COMMENTS:

NO COMMENTS..... 1 (TIME\_STAMP\_5)  
COMMENT..... 2

**BL3750/(BLOOD\_DRAW\_COMMENT\_OTH).**

SPECIFY \_\_\_\_\_

**(TIME\_STAMP\_5) PROGRAMMER INSTRUCTION:**

- INSERT DATE/TIME STAMP.