OMB #: 0925-0593 OMB Expiration Date: 8/31/2014 Child Anthropometry Instrument, Phase 2g OMB Specification



Child Anthropometry Instrument

Event Category:	Time-Based
Event:	6M, 12M, 24M, 36M, 48M, 60M
Administration:	N/A
Instrument Target:	Child
Instrument Respondent:	Primary Caregiver
Domain:	Physical Measures
Document Category:	Physical Measures
Method:	Data Collector Administered
Mode (for this instrument*):	In-Person, CAI
OMB Approved Modes:	In-Person, CAI
Estimated Administration Time:	17 minutes
Multiple Child/Sibling Consideration:	Per Child
Special Considerations:	N/A
Version:	3.0
MDES Release:	4.0

^{*}This instrument is OMB-approved for multi-mode administration but this version of the instrument is designed for administration in this/these mode(s) only.

Public reporting burden for this collection of information is estimated to average 17 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: NIH, Project Clearance Branch, 6705 Rockledge Drive, MSC 7974, Bethesda, MD 20892-7974, ATTN: PRA (0925-0593*). Do not return the completed form to this address.

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Child Anthropometry Instrument

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Child Anthropometry Instrument

GENERAL PROGRAMMER INSTRUCTIONS:

WHEN PROGRAMMING INSTRUMENTS, VALIDATE FIELD LENGTHS AND TYPES AGAINST THE MDES TO ENSURE DATA COLLECTION RESPONSES DO NOT EXCEED THOSE OF THE MDES. SOME GENERAL ITEM LIMITS USED ARE AS FOLLOWS:

DATA ELEMENT FIELDS	MAXIMUM CHARACTE RS PERMITTED	DATA TYPE	PROGRAMMER INSTRUCTIONS
ADDRESS AND EMAIL FIELDS	100	CHARACTER	
UNIT AND PHONE FIELDS	10	CHARACTER	
_OTH AND COMMENT FIELDS	255	CHARACTER	Limit text to 255 characters
FIRST NAME AND LAST NAME	30	CHARACTER	Limit text to 30 characters
ALL ID FIELDS	36	CHARACTER	
ZIP CODE	5	NUMERIC	
ZIP CODE LAST FOUR	4	NUMERIC	
CITY	50	CHARACTER	
DOB AND ALL OTHER DATE FIELDS (E.G., DT, DATE, ETC.)	10	NUMERIC CHARACTER	DISPLAY AS MM/DD/YYYY STORE AS YYYY-MM-DD HARD EDITS: MM MUST EQUAL 01 TO 12 DD MUST EQUAL 01 TO 31 YYYY MUST BE BETWEEN 1900 AND CURRENT YEAR.
TIME VARIABLES	TWO-DIGIT HOUR AND TWO-DIGIT MINUTE, AM/PM DESIGNATI ON	NUMERIC	HARD EDITS: HOURS MUST BE BETWEEN 00 AND 12; MINUTES MUST BE BETWEEN 00 AND 59

Instrument Guidelines for Participant and Respondent IDs:

PRENATALLY, THE **P_ID** IN THE MDES HEADER IS THAT OF THE PARTICIPANT (E.G. THE NON-PREGNANT WOMAN, PREGNANT WOMAN, OR THE FATHER).

POSTNATALLY, A RESPONDENT ID WILL BE USED IN ADDITION TO THE PARTICIPANT ID BECAUSE SOMEBODY OTHER THAN THE PARTICIPANT MAY BE COMPLETING THE INTERVIEW. FOR EXAMPLE, THE PARTICIPANT MAY BE THE CHILD AND THE RESPONDENT MAY BE THE MOTHER, FATHER, OR ANOTHER CAREGIVER.

THEREFORE, MDES VERSION 2.2 AND ALL FUTURE VERSIONS CONTAIN A **R_P_ID** (RESPONDENT PARTICIPANT ID) HEADER FIELD FOR EACH POST-BIRTH INSTRUMENT. THIS WILL ALLOW ROCS TO INDICATE WHETHER THE RESPONDENT IS SOMEBODY OTHER THAN THE PARTICIPANT ABOUT WHOM THE QUESTIONS ARE BEING ASKED.

A REMINDER:

ALL RESPONDENTS MUST BE CONSENTED AND HAVE RECORDS IN THE PERSON, PARTICIPANT, PARTICIPANT_CONSENT AND LINK_PERSON_PARTICIPANT TABLES, WHICH CAN BE PRELOADED INTO EACH INSTRUMENT. ADDITIONALLY, IN POST-BIRTH QUESTIONNAIRES WHERE THERE IS THE ABILITY TO LOOP THROUGH A SET OF QUESTIONS FOR MULTIPLE CHILDREN, IT IS IMPORTANT TO CAPTURE AND STORE THE CORRECT CHILD **P_ID** ALONG WITH THE LOOP INFORMATION. IN THE MDES VARIABLE LABEL/DEFINITION COLUMN, THIS IS INDICATED AS FOLLOWS: **EXTERNAL IDENTIFIER: PARTICIPANT ID FOR CHILD DETAIL.**

PHYSICAL MEASURES CHILD ANTHROPOMETRY INSTRUMENT (6-MONTH, 12-MONTH, 24-MONTH, 36-MONTH, 48-MONTH, AND 60-MONTH)

(TIME_STAMP_PMC_ST).

PROGRAMMER INSTRUCTIONS

- INSERT DATE/TIME STAMP
- IF **C_FNAME** COLLECTED DURING PVST INSTRUMENT AND RESPONSE ≠ -1, -2 OR -4, PRELOAD **C FNAME**.
- OTHERWISE, IF **C_FNAME** NOT COLLECTED DURING PVST INSTRUMENT OR RESPONSE = -1, -2 OR -4, DISPLAY "the child".
- PRELOAD CHILD SEX FROM PVST INSTRUMENT.

PMC01000/(ANTHRO_INTRO).

DATA COLLECTOR INSTRUCTIONS

- EXPLAIN THE ANTHROPOMETRY PROTOCOL FOR THE EVENT TO THE PARENT OR CAREGIVER.
- IF THE PARENT OR CAREGIVER REFUSED THE MEASUREMENTS, SELECT REFUSED.
- OTHERWISE, SELECT CONTINUE.

Label	Code	Go To
CONTINUE	1	AN_WT_MEAS1
REFUSED	-1	

PMC02000/(AN_REF_REASON). I am sorry that you have chosen not to participate in this activity. Can you please tell me why?

DATA COLLECTOR INSTRUCTIONS

SELECT ALL THAT APPLY.

Label	Code	Go To
CONCERN ABOUT	1	
DISCOMFORT		
CHILD SICK	2	
CHILD TIRED/UNHAPPY	3	
OTHER	-5	
NONE GIVEN	-7	

SOURCE

National Children's Study, Vanguard Phase (Child Anthropometry)

- IF AN_REF_REASON = ANY COMBINATION OF RESPONSE CODES 1 3, GO TO AN END REF.
- IF **AN_REF_REASON** = -5, OR ANY COMBINATION OF RESPONSE CODES 1 -3 AND -5, GO TO **AN REF REASON OTH**.

	INICEDI	JCTIONS
UU: 11-U		11 11 11/10

 OTHERWISE, IF AN_REF_REASON = -7, DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSE CODES AND GO TO AN END REF.

PMC03000/(AN_REF_REASON_	OTH). SPECIFY:	
•		

SOURCE

National Children's Study, Vanguard Phase (Child Anthropometry)

PMC06000/(AN_END_REF). That's fine. Thank you for your time.

PROGRAMMER INSTRUCTIONS

• GO TO TIME_STAMP_PMC_ET.

PMC07000/(AN_WT_MEAS1). WEIGHT MEASUREMENT 1.

MEASURED WEIGHT | | | | | kg

DATA COLLECTOR INSTRUCTIONS

OBTAIN WEIGHT MEASURE.

Label	Code	Go To
REFUSED	-1	AN_WT_MEAS_CNO_REASO
		N
COULD NOT OBTAIN	-8	AN_WT_MEAS_CNO_REASO
		N

SOURCE		

PROGRAMMER INSTRUCTIONS

- IF MEASUREMENT IS < 0 OR > 200 KG, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT.

PMC08000/(AN_WT_MEAS2). WEIGHT MEASUREME	NT 2
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MEASURED WEIGHT			.		ιK	ſĹ	
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DATA COLLECTOR INSTRUCTIONS

OBTAIN WEIGHT MEASURE.

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 0 OR > 200 KG, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT.
- IF AN_WT_MEAS1 ≠ -1, -8 OR -4 AND AN_WT_MEAS2 ≠ -1, -8 OR -4, CALCULATE THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN AN_WT_MEAS1 AND AN WT MEAS2:
 - o IF **AN WT MEAS1** AND **AN WT MEAS2** DIFFER BY ≤ 0.3 KG:
 - CALCULATE THE MEAN OF AN_WT_MEAS1 AND AN_WT_MEAS2
 AND SAVE AS AN_WT_MEAS_MEAN
 - GO TO AN WT MEAS COM.
 - o IF AN_WT_MEAS1 AND AN_WT_MEAS2 DIFFER BY > 0.3 KG, GO TO AN WT MEAS3.
- OTHERWISE, IF AN WT MEAS2 = -1 OR -8:
 - o SAVE AN WT MEAS1 AS AN WT MEAS MEAN
 - o GO TO AN_WT_MEAS_CNO_REASON

PMC09000/(AN_WT_MEAS3). WEIGHT MEASUREMENT 3
MEASURED WEIGHT _ . kg
DATA COLLECTOR INSTRUCTIONS
OBTAIN WEIGHT MEASURE.

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 0 OR > 200 KG, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT.
- IF AN_WT_MEAS1 ≠ -1, -8 OR -4, AN_WT_MEAS2 ≠ -1, -8 OR -4, AND AN_WT_MEAS3 ≠ -1, -8 OR -4:
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE, THEN:
 - SAVE THE MIDDLE MEASURE AS AN WT MEAS MEAN
 - GO TO AN WT MEAS COM
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE NOT EQUIDISTANT FROM THE MIDDLE MEASURE:
 - CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS
 OF AN_WT_MEAS1, AN_WT_MEAS2, AND AN_WT_MEAS3 AND
 SAVE AS AN_WT_MEAS_MEAN
 - GO TO AN WT MEAS COM.
- OTHERWISE, IF AN WT MEAS3 = -1 OR -8:
 - O CALCULATE THE MEAN OF AN WT MEAS1 AND AN WT MEAS2, SAVE

AS AN WT MEAS MEAN

o GO TO AN_WT_MEAS_CNO_REASON.

PMC10000/(AN_WT_MEAS_CNO_REASON).

DATA COLLECTOR INSTRUCTIONS

- ENTER REASON(S) YOU COULD NOT OBTAIN THE WEIGHT MEASUREMENT(S).
- SELECT ALL THAT APPLY.

Label	Code	Go To
PARENT/CAREGIVER	1	
REFUSAL		
CHILD REFUSAL	2	
COMMUNICATION ISSUES	3	
PARENT/CAREGIVER	4	
ILL/EMERGENCY		
CHILD ILL/EMERGENCY	5	
NO TIME	6	
EQUIPMENT FAILURE	7	
SAFETY EXCLUSION	8	
PHYSICAL LIMITATION	9	
DATA COLLECTOR ERROR	10	
OTHER	-5	
NONE GIVEN	-7	

PROGRAMMER INSTRUCTIONS

- IF AN_WT_MEAS_CNO_REASON = ANY COMBINATION OF RESPONSES 1 10, GO TO AN_WT_MEAS_COM.
- IF AN_WT_MEAS_CNO_REASON = -5 OR ANY COMBINATION OF RESPONSES 1 10 AND -5, GO TO AN_WT_MEAS_CNO_REASON_OTH.
- OTHERWISE, IF **AN_WT_MEAS_CNO_REASON** = -7:
 - o DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - o GO TO AN_WT_MEAS_COM.

PMC11000/(AN_WT_MEAS_CNO_REASON_0	OTH).
SPECIFY:	

PMC12000/(AN_ WT_MEAS_COM).

DATA COLLECTOR INSTRUCTIONS

- ENTER COMMENTS ABOUT WEIGHT MEASUREMENTS.
- SELECT ALL THAT APPLY.

Label	Code	Go To
NONE	1	
DIAPER NOT CLEAN	2	
CHILD WEARING	3	

Label	Code	Go To
CLOTHES		
CHILD WEARING SHOES	4	
OTHER	-5	

- IF AN MEAS WT COM = 1:
 - DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - o GO TO PROGRAMMER INSTRUCTIONS FOLLOWING AN MEAS WT COM OTH
- IF **AN_MEAS_WT_COM** = ANY COMBINATION OF 2 4, GO TO PROGRAMMER INSTRUCTIONS FOLLOWING **AN_MEAS_WT_COM_OTH**.
- IF AN_MEAS_WT_COM = -5 OR ANY COMBINATION OF 2 4 AND -5, GO TO AN MEAS WT COM OTH.

PMC13000/(AN_MEAS_WT_COM_OTH). SPECIFY:	
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PROGRAMMER INSTRUCTIONS

- IF 6-MONTH EVENT (**EVENT_TYPE** = 24) OR 12-MONTH EVENT (**EVENT_TYPE** = 27), GO TO **AN_RECUMB_LENGTH1**.
- IF 24-MONTH EVENT (**EVENT_TYPE** = 31) OR GREATER, GO TO **CHILD STANDING**.

PMC14000/(CHILD_STANDING). IS THE CHILD ABLE TO STAND?

Label	Code	Go To
YES	1	AN_STAND_HEIGHT1
NO	2	AN_STAND_HEIGHT1

PMC15000/(AN_RECUMB_LENGTH1). FIRST RECUMBENT LENGTH.
MEASURED RECUMBENT LENGTH cm
DATA COLLECTOR INSTRUCTIONS
ORTAIN RECUMBENT LENGTH

Label	Code	Go To
EXCEEDS CAPACITY	-9	AN_RECUMB_LENGTH_CNO_REASO
		N
REFUSED	-1	AN_RECUMB_LENGTH_CNO_REASO
		N
COULD NOT OBTAIN	-8	AN_RECUMB_LENGTH_CNO_REASO
		N

- IF MEASUREMENT IS < 16 OR > 197.5 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED

PROGRAMMER INSTRUCTIONS		
USING CHILD_DOB AND VISIT_DATE , DISPLAY SOFT EDIT.		
PMC16000/(AN_RECUMB_LENGTH2). SECOND RECUMBENT LENGTH.		
MEASURED RECUMBENT LENGTH cm		
DATA COLLECTOR INSTRUCTIONS		
OBTAIN RECUMBENT LENGTH.		

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 16 OR > 197.5 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT.
- IF AN_RECUMB_LENGTH1 ≠ -1, -8 OR -4 AND AN_RECUMB_LENGTH2 ≠ -1, -8 OR -4, CALCULATE THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN AN RECUMB LENGTH1 AND AN RECUMB LENGTH2:
 - 0 IF **AN_RECUMB_LENGTH1** AND **AN_RECUMB_LENGTH2** DIFFER BY ≤ 1.0 CM:
 - CALCULATE THE MEAN OF AN_RECUMB_LENGTH1 AND AN_RECUMB_LENGTH2 AND SAVE AS AN_RECUMB_LENGTH_MEAN
 - GO TO AN_ABOVE_WAIST_ADJ_RECUMB.
 - o IF AN_RECUMB_LENGTH1 AND AN_RECUMB_LENGTH2 DIFFER BY > 1.0 CM, GO TO AN_RECUMB_LENGTH3.
- OTHERWISE, IF AN_RECUMB_LENGTH2 = -1 OR -8:
 - o SAVE AN_RECUMB_LENGTH1 AS AN_RECUMB_LENGTH_MEAN
 - o GO TO AN ABOVE WAIST ADJ RECUMB.

PMC17000/(AN_RECUMB_LENGTH3). THIRD RECUMBENT LENGTH.			
MEASURED RECUMBENT LENGTH cm			
DATA COLLECTOR INSTRUCTIONS			
OBTAIN RECUMBENT LENGTH.			

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 16 OR > 197.5 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE

AND GENDER, WHERE CHILD AGE IS CALCULATED USING **CHILD DOB** AND **VISIT DATE**, DISPLAY SOFT EDIT.

- IF AN_RECUMB_LENGTH1 ≠ -1, -8 OR -4, AN_RECUMB_LENGTH2 ≠ -1, -8 OR -4, AND AN_RECUMB_LENGTH3 ≠ -1, -8 OR -4:
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE, THEN SAVE THE MIDDLE MEASURE AS AN RECUMB LENGTH MEAN.
 - O IF THE HIGHEST AND LOWEST MEASUREMENTS ARE NOT EQUIDISTANT FROM THE MIDDLE MEASURE, CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS OF AN_RECUMB_LENGTH1, AN_RECUMB_LENGTH2, AND AN_RECUMB_LENGTH3 AND SAVE AS AN_RECUMB_LENGTH_MEAN.
- OTHERWISE, IF AN_RECUMB_LENGTH3 = -1 OR -8, CALCULATE THE MEAN OF AN_RECUMB_LENGTH1 AND AN_RECUMB_LENGTH2, AND SAVE AS AN RECUMB LENGTH MEAN.

PMC18000/(AN_ABOVE_WAIST_ADJ_RECUMB). (RECUMBENT).	ABOVE	WAIST	ADJUSTMENT
ABOVE WAIST ADJUSTMENT _ .] cm		
DATA COLLECTOR INSTRUCTIONS			
 ENTER "00.0" IF NO ADJUSTMENT IS NEED 	ED.		
PROGRAMMER INSTRUCTIONS			
 DISPLAY HARD EDIT IF WAIST ADJUSTMEN 	NT IS < 0 OR	>15.2 CM.	
PMC19000/(AN_BELOW_WAIST_ADJ_RECUMB). (RECUMBENT).	BELOW	WAIST	ADJUSTMENT
BELOW WAIST ADJUSTMENT . _	_ cm		
DATA COLLECTOR INSTRUCTIONS			
 ENTER "00 0" IF NO ADJUSTMENT IS NEED 	FD		

PROGRAMMER INSTRUCTIONS

- DISPLAY HARD EDIT IF WAIST ADJUSTMENT IS < 0 OR >15.2 CM.
- SUBTRACT AN_ABOVE_WAIST_ADJ_RECUMB AND AN_BELOW_WAIST_ADJ_ RECUMB FROM AN_RECUMB_LENGTH_MEAN AND SAVE AS AN ADJ RECUMB LENGTH.
- IF EITHER AN_RECUMB_LENGTH2 OR AN_RECUMB_LENGTH3 = -1 OR -8, GO TO AN_RECUMB_LENGTH_CNO_REASON.
- OTHERWISE, GO TO AN MEAS WT LENGTH COM.

PMC21000/(AN RECUMB LENGTH CNO REASON).

DATA COLLECTOR INSTRUCTIONS

- ENTER REASON(S) YOU COULD NOT OBTAIN THE LENGTH MEASUREMENT(S).
- SELECT ALL THAT APPLY.

Label	Code	Go To
PARENT/CAREGIVER	1	
REFUSAL		
CHILD REFUSAL	2	
COMMUNICATION ISSUES	3	
PARENT/CAREGIVER	4	
ILL/EMERGENCY		
CHILD ILL/EMERGENCY	5	
NO TIME	6	
EQUIPMENT FAILURE	7	
SAFETY EXCLUSION	8	
PHYSICAL LIMITATION	9	
DATA COLLECTOR ERROR	10	
OTHER	-5	
NONE GIVEN	-7	

- IF **AN_RECUMB_LENGTH_CNO_REASON** = ANY COMBINATION OF 1 10, GO TO **AN MEAS LENGTH COM**.
- IF **AN_RECUMB_LENGTH_CNO_REASON** = -5 OR ANY COMBINATION OF 1 10 AND -5, GO TO **AN_RECUMB_LENGTH_CNO_REASON_OTH**.
- OTHERWISE, IF AN_RECUMB_LENGTH_CNO_REASON = -7:
 - DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - o GO TO AN MEAS LENGTH COM.

PMC22000	/(AN_RE	CUMB_	LENGTH_	CNO	_REASON_	OTH).
SPECIFY:						
_						

PMC23000/(AN_MEAS_LENGTH_COM).

DATA COLLECTOR INSTRUCTIONS

- ENTER COMMENTS ABOUT LENGTH MEASUREMENTS AND ABOVE/BELOW WAIST ADJUSTMENTS.
- SELECT ALL THAT APPLY.

Label	Code	Go To
NONE	1	
POSITION NOT STRAIGHT	2	
FOR LENGTH		
MEDICAL	3	
APPLIANCE/CAST NOT		
REMOVED		
AMPUTATION - LEG	4	
OTHER	-5	

PROGRAMMER INSTRUCTIONS

• IF AN_MEAS _LENGTH_COM = 1:

- o DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
- o GO TO PROGRAMMER INSTRUCTIONS FOLLOWING AN_MEAS_LENGTH_COM_OTH.
- IF **AN_MEAS_LENGTH_COM** = ANY COMBINATION OF 2 4, GO TO PROGRAMMER INSTRUCTIONS FOLLOWING **AN MEAS LENGTH COM OTH**.
- IF AN_MEAS_LENGTH_COM = -5 OR ANY COMBINATION OF 2 4 AND -5, GO TO AN_MEAS_LENGTH_COM_OTH.

PMC24000/(AN_MEAS_LENGTH_COM_OTH). SPECIFY:
PROGRAMMER INSTRUCTIONS
 IF EVENT = 6-MONTH EVENT (EVENT_TYPE = 24) OR 12-MONTH EVENT (EVENT_TYPE = 27), GO TO AN_THIGH_LENGTH.
PMC25000/(AN_STAND_HEIGHT1). FIRST STANDING HEIGHT.
MEASURED STANDING HEIGHT cm

DATA COLLECTOR INSTRUCTIONS

OBTAIN STANDING HEIGHT.

Label	Code	Go To
CHILD UNABLE TO	-7	AN_STAND_HEIGHT_CNO_REASO
STAND		N
EXCEEDS CAPACITY	-9	AN_STAND_HEIGHT_CNO_REASO
		N
REFUSED	-1	AN_STAND_HEIGHT_CNO_REASO
		N
COULD NOT OBTAIN	-8	AN_STAND_HEIGHT_CNO_REASO
		N

- IF MEASUREMENT IS < 20 OR > 205 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT.

PMC26000/(AN_STAND_HEIGHT2). SECOND STANDING HEIGHT.		
MEASURED STANDING HEIGHT cm		
DATA COLLECTOR INSTRUCTIONS		
OBTAIN STANDING HEIGHT.		

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 20 OR > 205 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS
 - CALCULATED USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT.
- IF AN_STAND_HEIGHT1 ≠ -1, -8 OR -4 AND AN_STAND_HEIGHT2 ≠ -1, -8 OR -4, CALCULATE THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN

 AN STAND HEIGHT1 AND AN STAND HEIGHT2:
 - o IF **AN STAND HEIGHT1** AND **AN STAND HEIGHT2** DIFFER BY ≤ 1.0 CM:
 - CALCULATE THE MEAN OF AN_STAND_HEIGHT1 AND AN_STAND_HEIGHT2, SAVE AS AN_STAND_HEIGHT_MEAN
 - GO TO AN ABOVE WAIST ADJ STAND.
 - o IF **AN_STAND_HEIGHT1** AND **AN_STAND_HEIGHT2** DIFFER BY > 1.0 CM, GO TO **AN_STAND_HEIGHT3**.
- OTHERWISE, IF AN STAND HEIGHT2 = -1 OR -8:
 - o SAVE AN STAND HEIGHT1 AS AN STAND HEIGHT MEAN
 - o GO TO AN_ABOVE_WAIST_ADJ_STAND.

PMC27000/(AN_STAND_HEIGHT3). THIRD STANDING HEIGHT.		
MEASURED STANDING HEIGHT cm		
DATA COLLECTOR INSTRUCTIONS		
OBTAIN STANDING HEIGHT.		

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 20 OR > 205 CM. DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD DOB AND VISIT DATE, DISPLAY SOFT EDIT.
- IF AN_STAND_HEIGHT1 ≠ -1, -8 OR -4, AN_STAND_HEIGHT2 ≠ -1, -8 OR -4, AND AN_STAND_HEIGHT3 ≠ -1, -8 OR -4:
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE, THEN SAVE THE MIDDLE MEASURE AS AN STAND HEIGHT MEAN.
 - O IF THE HIGHEST AND LOWEST MEASUREMENTS ARE NOT EQUIDISTANT FROM THE MIDDLE MEASURE, CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS OF AN_STAND_HEIGHT1, AN_STAND_HEIGHT2, AND AN_STAND_HEIGHT3 AND SAVE AS AN STAND HEIGHT MEAN.
- OTHERWISE, IF AN_STAND_HEIGHT3 = -1 OR -8, CALCULATE THE MEAN OF AN_STAND_HEIGHT1 AND AN_STAND_HEIGHT2, AND SAVE AS AN STAND HEIGHT MEAN.

PMC28000/(AN_ABOVE_WAIST_ADJ_STAND). ABOVE WAIST ADJUSTMENT (STANDING HEIGHT).
ABOVE WAIST ADJUSTMENT cm
DATA COLLECTOR INSTRUCTIONS
ENTER "00.0" IF NO ADJUSTMENT IS NEEDED.
PROGRAMMER INSTRUCTIONS
 DISPLAY HARD EDIT IF WAIST ADJUSTMENT IS < 0 OR >15.2 CM.
PMC29000/(AN_BELOW_WAIST_ADJ_STAND). BELOW WAIST ADJUSTMENT (STANDING HEIGHT).
BELOW WAIST ADJUSTMENT _ . cm

- DISPLAY HARD EDIT IF WAIST ADJUSTMENT IS < 0 OR >15.2 CM.
- SUBTRACT AN_ABOVE_WAIST_ADJ_STAND AND AN_BELOW_WAIST_ADJ_ST AND FROM AN_STAND_HEIGHT_MEAN AND SAVE AS AN_ADJ_STAND_HEIGHT.
- IF EITHER AN_STAND_HEIGHT2 OR AN_STAND_HEIGHT3 = -1 OR -8, GO TO AN_STAND_HEIGHT_CNO_REASON.
- OTHERWISE, GO TO AN_MEAS_STAND_HEIGHT_COM.

PMC31000/(AN_STAND_HEIGHT_CNO_REASON).

DATA COLLECTOR INSTRUCTIONS

- ENTER REASON(S) YOU COULD NOT OBTAIN THE HEIGHT MEASUREMENT(S).
- SELECT ALL THAT APPLY.

Label	Code	Go To
PARENT/CAREGIVER	1	
REFUSAL		
CHILD REFUSAL	2	
COMMUNICATION ISSUES	3	
PARENT/CAREGIVER	4	
ILL/EMERGENCY		
CHILD ILL/EMERGENCY	5	
NO TIME	6	
EQUIPMENT FAILURE	7	
SAFETY EXCLUSION	8	
PHYSICAL LIMITATION	9	
DATA COLLECTOR ERROR	10	
OTHER	-5	
NONE GIVEN	-7	

PROGRAMMER INSTRUCTIONS

• IF AN_ STAND_HEIGHT_CNO_REASON = ANY COMBINATION OF 1 - 10, GO TO AN_MEAS_STAND_HEIGHT_COM.

- IF **AN_STAND_HEIGHT_CNO_REASON** = -5 OR ANY COMBINATION OF 1 10 AND -5, GO TO **AN_STAND_HEIGHT_CNO_REASON_OTH**.
- OTHERWISE, IF AN STAND HEIGHT CNO REASON = -7:
 - DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - o GO TO AN MEAS STAND HEIGHT COM.

PMC32000/(AN_	STANE	_HEIGH	T_CNO_F	REASON_OTH).
SPECIFY:				
PMC33000/(AN	MEAS	STAND	HEIGHT	COM).

DATA COLLECTOR INSTRUCTIONS

- ENTER COMMENTS ABOUT STANDING HEIGHT MEASUREMENTS AND ABOVE/BELOW WAIST ADJUSTMENTS.
- SELECT ALL THAT APPLY.

Label	Code	Go To
NONE	1	
POSITION NOT STRAIGHT FOR HEIGHT	2	
MEDICAL APPLIANCE/CAST NOT REMOVED	3	
AMPUTATION – LEG	4	
OTHER	-5	

- IF AN_MEAS_STAND_HEIGHT_COM = 1:
 - O DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - o GO TO PROGRAMMER INSTRUCTION FOLLOWING AN_MEAS_STAND_HEIGHT_COM_OTH.
- IF AN_MEAS_STAND_HEIGHT_COM = ANY COMBINATION OF 2 4, GO TO PROGRAMMER INSTRUCTION FOLLOWING

 AN MEAS STAND HEIGHT COM OTH

 IF AN_MEAS_STAND_HEIGHT_COM = -5 OR ANY COMBINATION OF 2 - 4 AND -5, GO TO AN_MEAS_STAND_HEIGHT_COM_OTH.
PMC34000/(AN_MEAS_STAND_HEIGHT_COM_OTH). SPECIFY:
PROGRAMMER INSTRUCTIONS
 IF 24-MONTH EVENT (EVENT_TYPE = 31), GO TO AN_THIGH_LENGTH. IF 36-MONTH EVENT (EVENT_TYPE = 37) OR GREATER, GO TO AN_WAIST_CIRC1.
PMC35000/(AN_THIGH_LENGTH). THIGH (FEMUR) LENGTH
MEASURED THIGH (FEMUR) LENGTH _ . cm.

DATA COLLECTOR INSTRUCTIONS

• OBTAIN THIGH (FEMUR) LENGTH.

Label	Code	Go To
REFUSED	-1	AN_MID_THIGH_MEAS_CNO_REASO
		N
COULD NOT OBTAIN	-8	AN_MID_THIGH_MEAS_CNO_REASO
		N

PROGRAMMER INSTRUCTIONS

- IF MEASUREMENT IS < 0 OR > 200 CM, DISPLAY HARD EDIT.
- IF AN_THIGH_LENGTH ≠ -1, -8 OR -4, CREATE DERIVED VARIABLE,
 AN_MID_THIGH_LENGTH, WHERE AN_MID_THIGH_LENGTH =
 AN THIGH LENGTH/2, THEN GO TO AN MID THIGH CIRC1.
- OTHERWISE, GO TO AN MID THIGH MEAS CNO REASON.

PMC36000/(AN_MID_THIGH_CIRC1).	MID	THIGH	CIRCUMFERENCE	1	MEASURED	ΑT
{AN_MID_THIGH_LENGTH}.						

MEASURED MID THIGH CIRCUMFERENCE		١. ا	cm
VILASOINED WIID ITTIOTT CITCOWII EINENCE		 	

DATA COLLECTOR INSTRUCTIONS

TAKE THIGH CIRCUMFERENCE AT THE MIDPOINT OF THIGH LENGTH.

Label	Code	Go To
REFUSED	-1	AN_MID_THIGH_MEAS_CNO_REASO
		N
COULD NOT OBTAIN	-8	AN_MID_THIGH_MEAS_CNO_REASO
		N

PROGRAMMER INSTRUCTIONS

- IF MEASUREMENT IS < 0 OR > 200 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD DOB AND VISIT DATE, DISPLAY SOFT EDIT.
- DISPLAY AN_MID_THIGH_LENGTH.

PMC37000/(AN_MID_THIGH_CIRC2). MID THIGH CIRCUMFERENCE 2 MEASURED AT {AN_MID_THIGH_LENGTH}.

MEASURED MID THIGH CIRCUMFERENCE	MEASURE	ID THIGH	CIRCUMFERENCE		1 1 1	i . I	1 cm
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DATA COLLECTOR INSTRUCTIONS

TAKE THIGH CIRCUMFERENCE AT THE MIDPOINT OF THIGH LENGTH.

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 0 OR > 200 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD DOB AND VISIT DATE, DISPLAY SOFT EDIT.
- DISPLAY AN MID THIGH LENGTH.
- IF AN_MID_THIGH_CIRC1 ≠ -1, -8 OR -4 AND AN_MID_THIGH_CIRC2 ?≠ -1, -8 OR -4, CALCULATE THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN AN MID THIGH CIRC1 AND AN MID THIGH CIRC2:
 - 0 IF **AN_MID_THIGH_CIRC1** AND **AN_MID_THIGH_CIRC2** DIFFER BY ≤ 0.5 CM:
 - CALCULATE THE MEAN OF AN_MID_THIGH_CIRC1 AND
 AN_MID_THIGH_CIRC2, SAVE AS AN_MID_THIGH_CIRC_MEAN
 - GO TO AN MEAS MID THIGH COM.
 - o IF **AN_MID_THIGH_CIRC1** AND **AN_MID_THIGH_CIRC2** DIFFER BY > 0.5 CM, GO TO **AN MID THIGH CIRC3**.
- OTHERWISE, IF AN_MID_THIGH_CIRC2 = -1 OR -8:
 - o SAVE AN_MID_THIGH_CIRC1 AS AN_MID_THIGH_CIRC_MEAN
 - o GO TO AN_MID_THIGH_MEAS_CNO_REASON.

$\label{eq:pmc38000/(AN_MID_THIGH_CIRC3).} \mbox{ MID THIGH CIRCUMFERENCE 3 MEASURED A } \{\mbox{AN_MID_THIGH_LENGTH}\}.$
MEASURED MID THIGH CIRCUMFERENCE _ _ . _ cm.
DATA COLLECTOR INSTRUCTIONS
 TAKE THIGH CIRCUMFERENCE AT THE MIDPOINT OF THIGH LENGTH.

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 0 OR > 200 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS

 CALCULATED LISTING CHILD POOR AND VISIT DATE. DISPLAY SOFT EDIT
 - CALCULATED USING CHILD DOB AND VISIT DATE, DISPLAY SOFT EDIT.
- DISPLAY AN_MID_THIGH_LENGTH.
- IF AN_MID_THIGH_CIRC1 ≠ -1, -8 OR -4, AN_MID_THIGH_CIRC2 ≠ -1, -8 OR -4, AND AN MID THIGH CIRC3 ?≠ -1, -8 OR -4:
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE:
 - SAVE THE MIDDLE MEASURE AS AN MID THIGH CIRC MEAN
 - GO TO AN_MEAS_MID_THIGH_COM.
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE NOT EQUIDISTANT FROM THE MIDDLE MEASURE:
 - CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS

OF AN_MID_THIGH_CIRC1, AN_MID_THIGH_CIRC2, AND AN_MID_THIGH_CIRC3, SAVE THE VALUE AS AN MID THIGH CIRC MEAN

- GO TO AN_MEAS_MID_THIGH_COM.
- OTHERWISE, IF **AN_MID_THIGH_CIRC3** = -1 OR -8:
 - O CALCULATE THE MEAN OF **AN_MID_THIGH_CIRC1** AND **AN_MID_THIGH_CIRC2**, SAVE AS **AN_MID_THIGH_CIRC_MEAN**
 - O GO TO AN MID THIGH MEAS CNO REASON.

PMC39000/(AN_MID_THIGH_MEAS_CNO_REASON).

DATA COLLECTOR INSTRUCTIONS

- ENTER REASON(S) YOU COULD NOT OBTAIN THE THIGH (FEMUR) LENGTH AND/OR CIRCUMFERENCE MEASUREMENT(S).
- SELECT ALL THAT APPLY.

Label	Code	Go To
PARENT/CAREGIVER	1	
REFUSAL		
CHILD REFUSAL	2	
COMMUNICATION ISSUES	3	
PARENT/CAREGIVER	4	
ILL/EMERGENCY		
CHILD ILL/EMERGENCY	5	
NO TIME	6	
EQUIPMENT FAILURE	7	
SAFETY EXCLUSION	8	
PHYSICAL LIMITATION	9	
DATA COLLECTOR ERROR	10	
OTHER	-5	
NONE GIVEN	-7	

- IF **AN_MID_THIGH_MEAS_CNO_REASON** = ANY COMBINATION OF RESPONSES 1 10, GO TO **AN_MEAS_MID_THIGH_COM**.
- IF **AN_MID_THIGH_MEAS_CNO_REASON** = -5 OR ANY COMBINATION OF RESPONSES 1 10 AND -5, GO TO **AN_MID_THIGH_MEAS_CNO_REASON_OTH**.
- OTHERWISE, IF AN MID THIGH MEAS CNO REASON = -7:
 - DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - o GO TO AN_MEAS_MID_THIGH_COM.

PMC40000	/(AN_MID ₋	_THIGH	_MEAS_	_CNO_F	$REASON_{_}$	_OTH).
SPECIFY:						
_						
PMC41000	/(AN_MEA	S_MID_	THIGH_	COM).		

DATA COLLECTOR INSTRUCTIONS

- ENTER COMMENT(S) ABOUT THIGH (FEMUR) LENGTH AND THIGH CIRCUMFERENCE MEASUREMENTS.
- SELECT ALL THAT APPLY.

Label	Code	Go To
NONE	1	
MEASUREMENT TAKEN OVER THICK CLOTHING	2	
MEASUREMENT TAKEN ON LEFT THIGH	3	
MEDICAL APPLIANCE/CAST NOT REMOVED	4	
AMPUTATION - LEG	5	
OTHER	-5	

PROGRAMMER INSTRUCTIONS

- IF AN MEAS MID THIGH COM = 1:
 - DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES.
 - o GO TO AN WAIST CIRC1.
- IF **AN_MEAS_MID_THIGH_COM** = ANY COMBINATION OF RESPONSES 2 5, GO TO **AN WAIST CIRC1**.
- IF AN_MEAS_MID_THIGH_COM = -5 OR ANY COMBINATION OF RESPONSES 2

 5 AND -5, GO TO AN MEAS MID THIGH COM OTH.

PMC42000/(AN_MEAS_MID_THIGH_COM_OTH). SPECIFY:		
PMC43000/(AN_WAIST_CIRC1). WAIST CIRCUMFERENCE 1		
MEASURED WAIST CIRCUMFERENCE cm.		
DATA COLLECTOR INSTRUCTIONS		
OBTAIN WAIST CIRCUMEERENCE.		

Label	Code	Go To
REFUSED	-1	AN_WAIST_CIRC_CNO_REASO
		N
COULD NOT OBTAIN	-8	AN_WAIST_CIRC_CNO_REASO
		N

PROGRAMMER INSTRUCTIONS

- IF MEASUREMENT IS < 0 OR > 200 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT.

PMC44000/(AN_WAIST_CIRC2). WAIST CIRCUMFERENCE 2

MEASURED WAIST CIRCUMFERENCE	. cm.
DATA COLLECTOR INSTRUCTIONS	
 OBTAIN WAIST CIRCUMFERENCE 	

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 0 OR > 200 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER. WHERE CHILD AGE IS
 - CALCULATED USING CHILD DOB AND VISIT DATE, DISPLAY SOFT EDIT.
- IF AN_WAIST_CIRC1 ≠ -1, -8 OR -4 AND AN_WAIST_CIRC2 ?≠ -1, -8 OR -4,
 CALCULATE THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN
 AN WAIST CIRC1 AND AN WAIST CIRC2:
 - o IF **AN_WAIST_CIRC1** AND **AN_WAIST_CIRC2** DIFFER BY ≤ 1.0 CM:
 - CALCULATE THE MEAN OF AN_WAIST_CIRC1 AND AN_WAIST_CIRC2, SAVE AS AN_WAIST_CIRC_MEAN
 - GO TO AN MEAS WAIST CIRC COM.
 - o IF AN_WAIST_CIRC1 AND AN_WAIST_CIRC2 DIFFER BY > 1.0 CM, GO TO AN WAIST CIRC3.
- OTHERWISE, IF AN_WAIST_CIRC2 =-1 OR -8:
 - O SAVE AN WAIST CIRC1 AS AN WAIST CIRC MEAN
 - O GO TO AN MEAS WAIST CIRC CNO REASON.

PMC45000/(AN_WAIST_CIRC3). WAIST CIRCUMFERENCE 3		
MEASURED WAIST CIRCUMFERENCE cm.		
DATA COLLECTOR INSTRUCTIONS		
OBTAIN WAIST CIRCUMFERENCE.		

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 0 OR > 200 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS
 - CALCULATED USING CHILD DOB AND VISIT DATE, DISPLAY SOFT EDIT.
 - O DIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT.
- IF AN WAIST CIRC1 ≠ -1, -8 OR -4, AN WAIST CIRC2 ≠ -1, -8 OR -4, AND

AN WAIST CIRC3 ?≠ -1, -8 OR -4:

- o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE:
 - SAVE THE MIDDLE MEASURE AS AN_WAIST_CIRC_MEAN
 - GO TO AN_MEAS_WAIST_CIRC_COM.
- o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE NOT EQUIDISTANT FROM THE MIDDLE MEASURE:
 - CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS
 OF AN_WAIST_CIRC1, AN_WAIST_CIRC2, AND
 AN WAIST CIRC3, SAVE THE VALUE AS AN WAIST CIRC MEAN
 - GO TO AN MEAS WAIST CIRC COM.
- OTHERWISE, IF AN_WAIST_CIRC3 = -1 OR -8:
 - O CALCULATE THE MEAN OF **AN_WAIST_CIRC1** AND **AN_WAIST_CIRC2**, SAVE AS **AN_WAIST_CIRC_MEAN**
 - 0 GO TO AN_WAIST_CIRC_CNO_REASON.

PMC46000/(AN_WAIST_CIRC_CNO_REASON).

DATA COLLECTOR INSTRUCTIONS

- ENTER REASON(S) THAT YOU COULD NOT OBTAIN THE WAIST CIRCUMFERENCE MEASURE(S).
- SELECT ALL THAT APPLY.

Label	Code	Go To
PARENT/CAREGIVER	1	
REFUSAL		
CHILD REFUSAL	2	
COMMUNICATION ISSUES	3	
PARENT/CAREGIVER	4	
ILL/EMERGENCY		
CHILD ILL/EMERGENCY	5	
NO TIME	6	
EQUIPMENT FAILURE	7	
SAFETY EXCLUSION	8	
PHYSICAL LIMITATION	9	
DATA COLLECTOR ERROR	10	
OTHER	-5	
NONE GIVEN	-7	

- IF **AN_WAIST_CIRC_CNO_REASON** = ANY COMBINATION OF RESPONSES 1 10, GO TO **AN MEAS WAIST CIRC COM**.
- IF **AN_WAIST_CIRC_CNO_REASON** = -5 OR ANY COMBINATION OF RESPONSES 1 10 AND -5, GO TO **AN_WAIST_CIRC_CNO_REASON_OTH**.
- OTHERWISE, IF AN WAIST CIRC CNO REASON = -7:
 - DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - o GO TO AN_MEAS_WAIST_CIRC_COM.

PMC47000/(AN_WAIST_CIRC_CNO_REASON_OTH). SPECIFY:			
PMC48000/(AN_MEAS_WAIST_CIRC_COM).			
DATA COLLECTOR INSTRUC	CTIONS		
 ENTER COMMENTS A 	BOUT WAIST CIRCUMFEREN	CE MEASUREMENTS.	
 SELECT ALL THAT AP 	PLY.		
Label	Code	Go To	
NONE	1		
MEASUREMENT TAKEN	2		
OVER THICK CLOTHING			
MEDICAL	3		
APPLIANCE/CAST NOT			
REMOVED			
OTHER	-5		
	110		
PROGRAMMER INSTRUCTIO			
• IF AN_MEAS_WAIST_	CIRC_COM = 1:		
a DO NOT ALLOW	V SELECTION OF ADDITIONAL	DECDONCEC	
	AMMER INSTRUCTION FOLLO	OWING	
	IST_CIRC_COM_OTH.		
	CIRC_COM = ANY COMBINAT	ION OF 2 AND 3, GO TO	
PROGRAMMER INSTRUCTION FOLLOWING			
AN_MEAS_WAIST_CIRC_COM_OTH.			
· · · · · · · · · · · · · · · · · · ·	 OTHERWISE, IF AN_MEAS_WAIST_CIRC_COM = -5 OR ANY COMBINATION OF 2 AND 3 AND -5, GO TO AN_MEAS_WAIST_CIRC_OTH. 		
2 AND 3 AND -5, GO 10	O AN_MEAS_WAIST_CIRC_O	IH.	
PMC49000/(AN_MEAS_WAIST_CIRC_COM_OTH). DATA COLLECTOR MEASUREMENT COMMENTS			
COMMENTS			
SPECIFY:			
PROGRAMMER INSTRUCTIO	NS		
 IF 48-MONTH EVENT (EVENT_TYPE = 39) OR 60-MC	ONTH EVENT (EVENT_TYPE	
= XX), GO TO AN_UPPER_ARM_LENGTH.			
OTHERWISE, GO TO A	N_HEAD_CIRC1.		
PMC50000/(AN_HEAD_CIRC1). HEAD CIRCUMFERENCE 1			
MEASURED HEAD CIRCUMF	ERENCE _ . cr	n.	
DATA COLLECTOR INSTRUC	CTIONS		
OBTAIN HEAD CIRCUIT	MFERENCE.		

Label	Code	Go To
REFUSED	-1	AN_HEAD_CIRC_CNO_REASO
		N
COULD NOT OBTAIN	-8	AN_HEAD_CIRC_CNO_REASO
		N

- IF MEASUREMENT IS < 0 OR > 70 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING **CHILD_DOB** AND **VISIT_DATE**, DISPLAY SOFT EDIT.

PMC51000/(AN_HEAD_CIRC2). HEAD CIRCUMFERENCE 2		
MEASURED HEAD CIRCUMFERENCE cm.		
DATA COLLECTOR INSTRUCTIONS		
OBTAIN HEAD CIRCUMFERENCE.		

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 0 OR > 70 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT.
- IF AN_HEAD_CIRC1 ≠ -1, -8 OR -4 AND AN_HEAD_CIRC2 ≠ -1, -8 OR -4, CALCULATE THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN AN_HEAD_CIRC1 AND AN_HEAD_CIRC2:
 - 0 IF **AN_HEAD_CIRC1** AND **AN_HEAD_CIRC2** DIFFER BY ≤ 0.3 CM:
 - CALCULATE THE MEAN OF AN_HEAD_CIRC1 AND AN_HEAD_CIRC2, SAVE AS AN_HEAD_CIRC_MEAN
 - GO TO AN MEAS HEAD CIRC COM.
 - o IF **AN_HEAD_CIRC1** AND **AN_HEAD_CIRC2** DIFFER BY > 0.3 CM, GO TO **AN_HEAD_CIRC3**.
- OTHERWISE, IF **AN_HEAD_CIRC2** = -1 OR -8:
 - o SAVE AN HEAD CIRC1 AS AN HEAD CIRC MEAN
 - o GO TO AN HEAD CIRC CNO REASON.

PMC52000/(AN_HEAD_CIRC3). HEAD CIRCUMFERENCE 3		
MEASURED HEAD CIRCUMFERENCE cm.		
DATA COLLECTOR INSTRUCTIONS		
OBTAIN HEAD CIRCUMFERENCE.		

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 0 OR > 70 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT DATE, DISPLAY SOFT EDIT.
- IF AN_HEAD_CIRC1 ≠ -1, -8 OR -4, AN_HEAD_CIRC2 ≠ -1, -8 OR -4, AND
 AN HEAD CIRC3 ?≠ -1, -8 OR -4:
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE:
 - SAVE THE MIDDLE MEASURE AS AN HEAD CIRC MEAN
 - GO TO AN MEAS HEAD CIRC COM.
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE NOT EQUIDISTANT FROM THE MIDDLE MEASURE:
 - CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS
 OF AN_HEAD_CIRC1, AN_HEAD_CIRC2, AND AN_HEAD_CIRC3,
 SAVE THE VALUE AS AN HEAD CIRC MEAN
 - GO TO AN MEAS HEAD CIRC COM.
- OTHERWISE, IF **AN_HEAD_CIRC3** = -1 OR -8:
 - O CALCULATE THE MEAN OF **AN_HEAD_CIRC1** AND **AN_HEAD_CIRC2**, SAVE AS **AN HEAD CIRC MEAN**
 - o GO TO AN_HEAD_CIRC_CNO_REASON.

PMC53000/(AN HEAD CIRC CNO REASON).

DATA COLLECTOR INSTRUCTIONS

- ENTER REASON(S) YOU COULD NOT OBTAIN THE HEAD CIRCUMFERENCE MEASURE(S).
- SELECT ALL THAT APPLY.

Label	Code	Go To
PARENT/CAREGIVER	1	
REFUSAL		
CHILD REFUSAL	2	
COMMUNICATION ISSUES	3	
PARENT/CAREGIVER	4	
ILL/EMERGENCY		
CHILD ILL/EMERGENCY	5	
NO TIME	6	
EQUIPMENT FAILURE	7	
SAFETY EXCLUSION	8	
PHYSICAL LIMITATION	9	
DATA COLLECTOR ERROR	10	
OTHER	-5	
NONE GIVEN	-7	

- IF AN_HEAD_CIRC_CNO_REASON = ANY COMBINATION OF RESPONSES 1 10, GO TO AN MEAS HEAD CIRC COM.
- IF **AN_HEAD_CIRC_CNO_REASON** = -5 OR ANY COMBINATION OF RESPONSES 1 10 AND -5, GO TO **AN_HEAD_CIRC_CNO_REASON_OTH**.
- OTHERWISE, IF AN HEAD CIRC CNO REASON = -7:
 - o DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - o GO TO AN_MEAS_HEAD_CIRC_COM.

PMC54000	/(AN_HEAD_CIRC_CNO_REASON_OTH).	
SPECIFY:		
_		

DATA COLLECTOR INSTRUCTIONS

PMC55000/(AN_MEAS_HEAD_CIRC_COM).

- ENTER COMMENTS ABOUT HEAD CIRCUMFERENCE MEASUREMENT(S).
- SELECT ALL THAT APPLY.

Label	Code	Go To
NONE	1	
MEASUREMENT TAKEN	2	
OVER THICK HAIRSTYLE		
MEASUREMENT TAKEN	3	
OVER HAIR/HEADPIECE		
CHILD NOT STILL DURING	4	
MEASURE		
OTHER	-5	

- IF AN MEAS HEAD CIRC COM = 1:
 - 0 DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - o GO TO AN_UPPER_ARM_LENGTH.
- IF AN_MEAS_HEAD_CIRC_COM = ANY COMBINATION OF 2 4, GO TO AN UPPER ARM LENGTH.
- OTHERWISE, IF **AN_MEAS_HEAD_CIRC_COM** = -5 OR ANY COMBINATION OF 2 4 AND -5, GO TO **AN_MEAS_HEAD_CIRC_OTH**.

PMC56000/(AN_MEAS_HEAD_CIRC_COM_OTH). COMMENTS	DATA	COLLECTOR	MEASUREMENT
SPECIFY:			
PMC57000/(AN_UPPER_ARM_LENGTH). UPPER A	ARM (HL	JMERUS) LENG	STH
MEASURED HUMERUS LENGTH _ . _	cm.		

DATA COLLECTOR INSTRUCTIONS

• OBTAIN UPPER ARM (HUMERUS) LENGTH.

Label	Code	Go To
REFUSED	-1	AN_MID_UPARM_MEAS_CNO_REAS
COULD NOT OBTAIN	-8	AN_MID_UPARM_MEAS_CNO_REA S

PROGRAMMER INSTRUCTIONS

- IF MEASUREMENT IS < 0 OR > 80 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT DATE, DISPLAY SOFT EDIT.
- IF **AN UPPER ARM LENGTH** ≠ -1, -8 OR -4:
 - O CREATE DERIVED VARIABLE, AN_MID_UPPER_ARM_LENGTH, WHERE
 AN MID UPPER ARM LENGTH = AN UPPER ARM LENGTH/2
 - o GO TO AN MID UPPER ARM CIRC1.

PMC58000/(AN_MID_UPPER_ARM_CIRC1). MID UPPE MEASURED AT {AN_MID_UPPER_ARM_LENGTH}.	R ARM CIRCUMFERENCE 1
MEASURED MID UPPER ARM CIRCUMFERENCE	. cm.
DATA COLLECTOR INSTRUCTIONS	
 TAKE UPPER ARM CIRCUMFERENCE AT THE UPP MIDPOINT. 	PER ARM (HUMERUS)

Label	Code	Go To
REFUSED	-1	AN_MID_UPARM_MEAS_CNO_REAS
COULD NOT OBTAIN	-8	AN_MID_UPARM_MEAS_CNO_REA S

PROGRAMMER INSTRUCTIONS

- IF MEASUREMENT IS < 0 OR > 70 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT.
- DISPLAY AN MID UPPER ARM LENGTH.

PMC59000/(AN_MID_UPPER_ARM_CIRC2). MEASURED AT {AN_MID_UPPER_ARM_LEN			ARM	CIRCUMFERENCE	2
MEASURED MID UPPER ARM CIRCUMFERE	NCE	<u> </u>	<u> </u> .	cm.	

DATA COLLECTOR INSTRUCTIONS

TAKE UPPER ARM CIRCUMFERENCE AT THE UPPER ARM (HUMERUS)

DATA COLLECTOR INSTRUCTIONS MIDPOINT.

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

PROGRAMMER INSTRUCTIONS

- IF MEASUREMENT IS < 0 OR > 70 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT DATE, DISPLAY SOFT EDIT.
- DISPLAY AN MID UPPER ARM LENGTH.
- IF AN_MID_UPPER_ARM_CIRC1 ≠ -1, -8 OR -4 AND
 AN_MID_UPPER_ARM_CIRC2 ?≠ -1, -8 OR -4, CALCULATE THE ABSOLUTE
 VALUE OF THE DIFFERENCE BETWEEN AN_MID_UPPER_ARM_CIRC1 AND
 AN MID UPPER ARM CIRC2:
 - o IF **AN_MID_UPPER_ARM_CIRC1** AND **AN_MID_UPPER_ARM_CIRC2** DIFFER BY ≤ 0.5 CM:
 - CALCULATE THE MEAN OF AN_MID_UPPER_ARM_CIRC1 AND AN_MID_UPPER_ARM_CIRC2, SAVE AS AN_MID_UPPER_ARM_CIRC MEAN
 - GO TO AN MEAS MID UPPER ARM COM.
 - O IF AN_MID_UPPER_ARM_CIRC1 AND AN_MID_UPPER_ARM_CIRC2 DIFFER BY > 0.5 CM, GO TO AN_MID_UPPER_ARM_CIRC3.
- OTHERWISE, IF AN MID UPPER ARM CIRC2 = -1 OR -8:
 - O SAVE AN_MID_UPPER_ARM_CIRC1 AS AN MID UPPER ARM CIRC MEAN
 - o GO TO AN MID UPARM MEAS CNO REAS.

PMC60000/(AN_MID_UPPER_ARM_CIRC3). MEASURED AT {AN_MID_UPPER_ARM_LENGED}			ARM	CIRCUMFERENCE	3
MEASURED MID UPPER ARM CIRCUMFEREN	NCE	<u> </u>	<u> </u> .	cm.	
DATA COLLECTOR INSTRUCTIONS					
 TAKE UPPER ARM CIRCUMFERENCE 	AT TH	HE UPPEF	R ARM ((HUMERUS)	

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

PROGRAMMER INSTRUCTIONS

MIDPOINT.

- IF MEASUREMENT IS < 0 OR > 70 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT DATE, DISPLAY SOFT EDIT.

- DISPLAY AN MID UPPER ARM LENGTH.
- IF AN_MID_UPPER_ARM_CIRC1 ≠ -1, -8 OR -4, AN_MID_UPPER_ARM_CIRC2 ≠ -1, -8 OR -4, AND AN_MID_UPPER_ARM_CIRC3 ?≠ -1, -8 OR -4:
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE:
 - SAVE THE MIDDLE MEASURE AS AN_MID_UPPER_ARM_CIRC_MEAN
 - GO TO AN MEAS MID UPPER ARM COM.
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE NOT EQUIDISTANT FROM THE MIDDLE MEASURE:
 - CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS
 OF AN_MID_UPPER_ARM_CIRC1, AN_MID_UPPER_ARM_CIRC2,
 AND AN_MID_UPPER_ARM_CIRC3, SAVE THE VALUE AS
 AN MID_UPPER_ARM_CIRC MEAN
 - GO TO AN MEAS MID UPPER ARM COM.
- OTHERWISE, IF AN MID UPPER ARM CIRC3 = -1 OR -8:
 - CALCULATE THE MEAN OF AN_MID_UPPER_ARM_CIRC1 AND AN_MID_UPPER_ARM_CIRC2, SAVE AS AN_MID_UPPER_ARM_CIRC_MEAN
 - o GO TO AN_MID_UPARM_MEAS_CNO_REAS.

PMC61000/(AN MID UPARM MEAS CNO REAS).

DATA COLLECTOR INSTRUCTIONS

- ENTER REASON(S) YOU COULD NOT OBTAIN THE MID UPPER ARM (HUMERUS) LENGTH AND/OR CIRCUMFERENCE MEASUREMENT(S).
- SELECT ALL THAT APPLY.

Label	Code	Go To
PARENT/CAREGIVER	1	
REFUSAL		
CHILD REFUSAL	2	
COMMUNICATION ISSUES	3	
PARENT/CAREGIVER	4	
ILL/EMERGENCY		
CHILD ILL/EMERGENCY	5	
NO TIME	6	
EQUIPMENT FAILURE	7	
SAFETY EXCLUSION	8	
PHYSICAL LIMITATION	9	
DATA COLLECTOR ERROR	10	
OTHER	-5	
NONE GIVEN	-7	

- IF **AN_MID_UPARM_MEAS_CNO_REAS** = ANY COMBINATION OF RESPONSES 1 10, GO TO **AN_MEAS_MID_UPPER_ARM_COM**.
- IF AN_MID_UPARM_MEAS_CNO_REAS = -5 OR ANY COMBINATION OF RESPONSES 1 10 AND -5, GO TO AN MID UPARM MEAS CNO REAS OTH.

- OTHERWISE, IF AN MID UPARM MEAS CNO REAS = -7:
 - DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - O GO TO AN MEAS MID UPPER ARM COM.

PMC62000	/(AN_I	MID_{-}	UPARM_	_MEAS_	_CNO_	_reas_	_OTH)
SPECIFY:	_						
_							

PMC63000/(AN MEAS MID UPPER ARM COM).

DATA COLLECTOR INSTRUCTIONS

- ENTER COMMENT(S) ABOUT MID UPPER ARM (HUMERUS) LENGTH AND CIRCUMFERENCE MEASURMENTS.
- SELECT ALL THAT APPLY.

Label	Code	Go To
NONE	1	
MEASUREMENT TAKEN	2	
OVER THICK CLOTHING		
MEASUREMENT TAKEN	3	
ON LEFT ARM		
MEDICAL	4	
APPLIANCE/CAST NOT		
REMOVED		
AMPUTATION - ARM	5	
OTHER	-5	

PROGRAMMER INSTRUCTIONS

- IF AN MEAS MID UPPER ARM COM = 1:
 - DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - o GO TO PROGRAMMER INSTRUCTION FOLLOWING AN MEAS MID UPPER ARM COM OTH.
 - IF AN_MEAS_MID_UPPER_ARM_COM = ANY COMBINATION OF RESPONSES 2
 - 5, GO TO PROGRAMMER INSTRUCTION FOLLOWING
 - AN MEAS MID UPPER ARM COM OTH.
- IF AN_MEAS_MID_UPPER_ARM_COM = -5 OR ANY COMBINATION OF RESPONSE CODES 2 – 5 AND -5, GO TO
 AN MEAS MID UPPER ARM COM OTH.

PMC64000/(AN_	MEAS_	_MID_	UPPER	_ARM_	_COM_	OTH)
SPECIFY: _							

- IF 6-MONTH EVENT (EVENT_TYPE = 24), 12-MONTH EVENT (EVENT_TYPE = 27), 24-MONTH EVENT (EVENT_TYPE = 31), 48-MONTH EVENT (EVENT_TYPE = 39), OR 60-MONTH EVENT (EVENT_TYPE = XX), GO TO AN_LOWER_ARM_LENGTH1.
- IF 36-MONTH EVENT (EVENT TYPE = 37), GO TO PMC86000.

PMC65000/(AN_LOWER_ARM_LENGTH1). LOWER ARM (ULNAR) LENGTH 1 MEASURED LOWER ARM (ULNAR) LENGTH |__|_|.|__| cm. DATA COLLECTOR INSTRUCTIONS OBTAIN LOWER ARM (ULNAR) LENGTH.

Label	Code	Go To
REFUSED	-1	AN_LOWER_ARM_CNO_REASO N
COULD NOT OBTAIN	-8	AN_LOWER_ARM_CNO_REASO N

PROGRAMMER INSTRUCTIONS

- IF MEASUREMENT IS < 0 OR > 80 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT.

PMC66000/(AN_LOWER_ARM_LENGTH2). LOWER ARM (ULNAR) LENGTH 2					
MEASURED LOWER ARM (ULNAR) LENGTH . cm.					
DATA COLLECTOR INSTRUCTIONS					
OBTAIN LOWER ARM (ULNAR) LENGTH.					

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 0 OR > 80 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT.
- IF AN_LOWER_ARM_LENGTH1 ≠ -1, -8 OR -4 AND AN_LOWER_ARM_LENGTH2 ?≠ -1, -8 OR -4, CALCULATE THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN AN_LOWER_ARM_LENGTH1 AND AN LOWER ARM LENGTH2:
 - 0 IF **AN_LOWER_ARM_LENGTH1** AND **AN_LOWER_ARM_LENGTH2** DIFFER BY < 0.2 CM:
 - CALCULATE THE MEAN OF AN_LOWER_ARM_LENGTH1 AND AN_LOWER_ARM_LENGTH2, SAVE AS AN LOWER ARM LENGTH MEAN,
 - GO TO AN LOWER ARM LENGTH COM.
 - 0 IF AN_LOWER_ARM_LENGTH1 AND AN_LOWER_ARM_LENGTH2 DIFFER BY ≥ 0.2 CM, GO TO AN LOWER ARM LENGTH3.

- OTHERWISE, IF AN LOWER ARM LENGTH2 = -1 OR -8:
 - o SAVE AN LOWER ARM LENGTH1 AS
 - AN LOWER ARM LENGTH MEAN
 - o GO TO AN LOWER ARM CNO REASON.

PMC67000/(AN_LOWER_ARM_LENGTH3). LOWER ARM (ULNAR) LENGTH 3

MEASURED LOWER ARM (ULNAR) LENGTH |___|.|_.|cm.

DATA COLLECTOR INSTRUCTIONS

OBTAIN LOWER ARM (ULNAR) LENGTH.

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

PROGRAMMER INSTRUCTIONS

- IF MEASUREMENT IS < 0 OR > 80 CM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT DATE, DISPLAY SOFT EDIT.
- IF AN_LOWER_ARM_LENGTH1 ≠ -1, -8 OR -4, AN_LOWER_ARM_LENGTH2 ≠ -1, -8 OR -4, AND AN LOWER ARM LENGTH3 ?≠ -1, -8 OR -4:
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE:
 - SAVE THE MIDDLE MEASURE AS
 - AN_LOWER_ARM_LENGTH_MEAN
 - GO TO AN_LOWER_ARM_LENGTH_COM.
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE NOT EOUIDISTANT FROM THE MIDDLE MEASURE:
 - CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS
 OF AN_LOWER_ARM_LENGTH1, AN_LOWER_ARM_LENGTH2,
 AND AN_LOWER_ARM_LENGTH3, SAVE THE VALUE AS
 AN LOWER ARM LENGTH MEAN
 - GO TO AN LOWER ARM LENGTH COM.
- OTHERWISE, IF AN LOWER ARM LENGTH3 = -1 OR -8:
 - o CALCULATE THE MEAN OF AN_LOWER_ARM_LENGTH1 AND

AN LOWER ARM LENGTH2, SAVE AS

AN LOWER ARM LENGTH MEAN

o GO TO AN_LOWER_ARM_CNO_REASON.

PMC68000/(AN LOWER ARM CNO REASON).

DATA COLLECTOR INSTRUCTIONS

- ENTER REASON(S) YOU COULD NOT OBTAIN THE MID LOWER ARM (ULNAR) LENGTH MEASUREMENT(S).
- SELECT ALL THAT APPLY.

Label	Code	Go To
PARENT/CAREGIVER	1	
REFUSAL		
CHILD REFUSAL	2	
COMMUNICATION ISSUES	3	
PARENT/CAREGIVER	4	
ILL/EMERGENCY		
CHILD ILL/EMERGENCY	5	
NO TIME	6	
EQUIPMENT FAILURE	7	
SAFETY EXCLUSION	8	
PHYSICAL LIMITATION	9	
DATA COLLECTOR ERROR	10	
OTHER	-5	
NONE GIVEN	-7	

- IF AN_LOWER_ARM_CNO_REASON = ANY COMBINATION OF RESPONSES 1 10, GO TO AN LOWER ARM LENGTH COM.
- IF **AN_LOWER_ARM_CNO_REASON** = -5 OR ANY COMBINATION OF RESPONSES 1 10 AND -5, GO TO **AN_LOWER_ARM_CNO_REASON_OTH**.
- OTHERWISE, IF AN_LOWER_ARM_CNO_REASON = -7:
 - o DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - o GO TO AN_LOWER_ARM_LENGTH_COM.

PMC69000	//(AN_LOWER_	_ARM_CNO_	_REASON	_ОТН) .
SPECIFY:				

PMC70000/(AN_LOWER_ARM_LENGTH_COM).

DATA COLLECTOR INSTRUCTIONS

- ENTER COMMENT(S) ABOUT LOWER ARM (ULNAR) LENGTH MEASUREMENT(S).
- SELECT ALL THAT APPLY.

Label	Code	Go To
NONE	1	
MEASUREMENT TAKEN OVER THICK CLOTHING	2	
MEASUREMENT TAKEN ON LEFT ARM	3	
MEDICAL APPLIANCE/CAST NOT REMOVED	4	
AMPUTATION - ARM	5	
OTHER	-5	

- IF AN LOWER ARM LENGTH COM = 1:
 - O DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - GO TO PROGRAMMER INSTRUCTIONSFOLLOWING AN_LOWER_ARM_LENGTH_COM_OTH.
- IF **AN_LOWER_ARM_LENGTH_COM** = ANY COMBINATION OF RESPONSES 2 5, GO TO PROGRAMMER INSTRUCTIONS FOLLOWING **AN_LOWER_ARM_LENGTH_COM_OTH.**
- IF AN_LOWER_ARM_LENGTH_COM = -5, OR ANY COMBINATION OF RESPONSE CODES 2 5 AND -5, GO TO AN_LOWER_ARM_LENGTH_COM_OTH.

PMC71000/(AN_I	LOWER_	ARM	_LENGTH_	_COM_	OTH).
SPECIFY:					

PROGRAMMER INSTRUCTIONS

- IF 6-MONTH EVENT (**EVENT_TYPE** = 24), 12-MONTH EVENT (**EVENT_TYPE** = 27), 24-MONTH EVENT (**EVENT TYPE** = 31), GO TO **AN LOWER ARM LENGTH1.**
- IF 36-MONTH EVENT (EVENT TYPE = 37), GO TO PMC86000.
- IF 48-MONTH EVENT (**EVENT_TYPE** = 39) OR GREATER, GO TO **AN_TRICEPS_SKINFOLD1.**

PMC72000/(AN_TRICEPS_SKINFOLD1).	TRICEPS SKINFOLD MEASUREMENT 1
MEASURED TRICEPS SKINFOLD	mm.
DATA COLLECTOR INSTRUCTIONS	
OBTAIN TRICEPS SKINFOLD.	

Label	Code	Go To
EXCEEDS CAPACITY	-9	AN_TRI_SKINFOLD_CNO_REASO
		N
REFUSED	-1	AN_TRI_SKINFOLD_CNO_REASO
		N
COULD NOT OBTAIN	-8	AN_TRI_SKINFOLD_CNO_REASO
		N

- IF MEASUREMENT IS < 0 OR > 67 MM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT.

PMC73000/(AN_TRICEPS_SKINFOLD2).	TRICEPS SKINFOLD MEASUREMENT 2
MEASURED TRICEPS SKINFOLD	mm.
DATA COLLECTOR INSTRUCTIONS	
 OBTAIN TRICEPS SKINFOLD. 	

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 0 OR > 67 MM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT DATE, DISPLAY SOFT EDIT.
- IF AN_TRICEPS_SKINFOLD1 ≠ -1, -8 OR -4 AND AN_TRICEPS_SKINFOLD2 ?≠ -1, -8 OR -4, CALCULATE THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN AN_TRICEPS_SKINFOLD1 AND AN_TRICEPS_SKINFOLD2:
 - 0 IF **AN_TRICEPS_SKINFOLD1** AND **AN_TRICEPS_SKINFOLD2** DIFFER BY ≤ 2.0 MM:
 - CALCULATE THE MEAN OF AN_TRICEPS_SKINFOLD1 AND AN_TRICEPS_SKINFOLD2, SAVE AS AN_TRICEPS_SKINFOLD_MEAN
 - GO TO AN_MEAS_TRI_SKINFOLD_COM.
 - o IF AN_TRICEPS_SKINFOLD1 AND AN_TRICEPS_SKINFOLD2 DIFFER BY > 2.0 MM, GO TO AN TRICEPS SKINFOLD3.
- OTHERWISE, IF AN_TRICEPS _SKINFOLD2 = -1 OR -8:
 - SAVE AN TRICEPS SKINFOLD1 AS AN TRICEPS SKINFOLD MEAN
 - 0 GO TO AN TRI SKINFOLD CNO REASON.

PMC74000/(AN_TRICEPS_SKINFOLD3).	TRICEPS SKINFOLD MEASUREMENT 3
MEASURED TRICEPS SKINFOLD	mm.
DATA COLLECTOR INSTRUCTIONS	
 OBTAIN TRICEPS SKINFOLD. 	

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 0 OR > 67 MM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT DATE, DISPLAY SOFT EDIT.
- IF AN_TRICEPS_SKINFOLD1 ≠ -1, -8 OR -4, AN_TRICEPS_SKINFOLD2 ≠ -1, -8 OR -4 AND AN TRICEPS SKINFOLD3 ?≠ -1, -8 OR -4:
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE:
 - SAVE THE MIDDLE MEASURE AS AN TRICEPS SKINFOLD MEAN
 - GO TO AN_MEAS_TRI_SKINFOLD_COM.
 - o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE NOT

EQUIDISTANT FROM THE MIDDLE MEASURE:

- CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS
 OF AN_TRICEPS_SKINFOLD1, AN_TRICEPS_SKINFOLD2, AND
 AN_TRICEPS_SKINFOLD3 AND SAVE THE VALUE AS
 AN_TRICEPS_SKINFOLD_MEAN
- GO TO AN MEAS TRI SKINFOLD COM.
- OTHERWISE, IF AN TRICEPS SKINFOLD3 = -1 OR -8:
 - O CALCULATE THE MEAN OF **AN_TRICEPS_SKINFOLD1** AND **AN_TRICEPS_SKINFOLD2**, SAVE AS **AN_TRICEPS_SKINFOLD_MEAN**
 - o GO TO AN_TRI_SKINFOLD_CNO_REASON.

PMC75000/(AN_TRI_SKINFOLD_CNO_REASON).

DATA COLLECTOR INSTRUCTIONS

- ENTER REASON(S) YOU COULD NOT OBTAIN TRICEPS SKINFOLD MEASUREMENT(S).
- SELECT ALL THAT APPLY.

Label	Code	Go To
PARENT/CAREGIVER	1	
REFUSAL		
CHILD REFUSAL	2	
COMMUNICATION ISSUES	3	
PARENT/CAREGIVER	4	
ILL/EMERGENCY		
CHILD ILL/EMERGENCY	5	
NO TIME	6	
EQUIPMENT FAILURE	7	
SAFETY EXCLUSION	8	
PHYSICAL LIMITATION	9	
DATA COLLECTOR ERROR	10	
OTHER	-5	
NONE GIVEN	-7	

- IF **AN_TRI_SKINFOLD_CNO_REASON** = ANY COMBINATION OF RESPONSES 1 10, GO TO **AN MEAS TRI SKINFOLD COM**.
- IF **AN_TRI_SKINFOLD_CNO_REASON** = -5 OR ANY COMBINATION OF RESPONSES 1 10 AND -5, GO TO **AN_TRI_SKINFOLD_CNO_REASON_OTH**.
- OTHERWISE, IF AN_TRI_SKINFOLD_CNO_REASON = -7:
 - DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - o GO TO **AN_MEAS_TRI_SKINFOLD_COM**.

PMC76000/(AN_TRI_SKINFOLD_CNO_REASON_OTH).
SPECIFY:
PMC77000/(AN MEAS TRI SKINFOLD COM).

DATA COLLECTOR INSTRUCTIONS

- ENTER COMMENT(S) ABOUT TRICEPS SKINFOLD MEASUREMENT(S).
- SELECT ALL THAT APPLY.

Label	Code	Go To
NONE	1	
MEASUREMENT TAKEN ON LEFT ARM	2	
MEDICAL APPLIANCE/CAST NOT REMOVED	3	
AMPUTATION - ARM	4	
OTHER	-5	

PROGRAMMER INSTRUCTIONS

- IF AN MEAS TRI SKINFOLD COM = 1:
 - DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES
 - o GO TO AN_SUBSCAP_SKINFOLD1.
- IF **AN_MEAS_TRI_SKINFOLD_COM** = ANY COMBINATION OF RESPONSES 2 5, GO TO **AN_SUBSCAP_SKINFOLD1**.
- IF **AN_MEAS_TRI_SKINFOLD_COM** = -5, OR ANY COMBINATION OF RESPONSE CODES 2 5 AND -5, GO TO **AN_MEAS_TRI_SKINFOLD_COM_OTH**.

PMC78000/(AN_MEAS_TRI_SKINFOLD_COM_OTH). SPECIFY:
PMC79000/(AN_SUBSCAP_SKINFOLD1). SUBSCAPULAR SKINFOLD MEASUREMENT 1
MEASURED SUBSCAPULAR SKINFOLD mm.
DATA COLLECTOR INSTRUCTIONS
OBTAIN SUBSCAPULAR SKINFOLD.

Label	Code	Go To
EXCEEDS CAPACITY	-9	AN_SUBSCAP_SNFLD_CNO_REA
		S
REFUSED	-1	AN_SUBSCAP_SNFLD_CNO_REA
		S
COULD NOT OBTAIN	-8	AN_SUBSCAP_SNFLD_CNO_REA
		S

PROGRAMMER INSTRUCTIONS

- IF MEASUREMENT IS < 0 OR > 67 MM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING **CHILD_DOB** AND **VISIT_DATE**, DISPLAY SOFT EDIT.

PMC80000/(AN SUBSCAP SKINFOLD2). SUBSCAPULAR SKINFOLD MEASUREMENT 2

MEASURED SUBSCAPULAR SKINFOLD		mm.

DATA COLLECTOR INSTRUCTIONS

OBTAIN SUBSCAPULAR SKINFOLD.

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

PROGRAMMER INSTRUCTIONS

- IF MEASUREMENT IS < 0 OR > 67 MM, DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT DATE, DISPLAY SOFT EDIT.
- IF AN_SUBSCAP_SKINFOLD1 ≠ -1, -8 OR -4 AND AN_SUBSCAP_SKINFOLD2 ?≠ -1, -8 OR -4, CALCULATE THE ABSOLUTE VALUE OF THE DIFFERENCE BETWEEN AN SUBSCAP SKINFOLD1 AND AN SUBSCAP SKINFOLD2:
 - o IF **AN_SUBSCAP_SKINFOLD1** AND **AN_SUBSCAP_SKINFOLD2** DIFFER BY ≤ 2.0 MM:
 - CALCULATE THE MEAN OF AN_SUBSCAP_SKINFOLD1 AND AN_ SUBSCAP_SKINFOLD2, SAVE AS AN SUBSCAP SKINFOLD MEAN
 - GO TO AN MEAS SUBSCAP SKINFOLD COM.
 - O IF **AN_SUBSCAP_SKINFOLD1** AND **AN_SUBSCAP_SKINFOLD2** DIFFER BY > 2.0 MM, GO TO **AN_SUBSCAP_SKINFOLD3**.
- OTHERWISE, IF AN SUBSCAP SKINFOLD2 = -1 OR -8:
 - o SAVE AN_SUBSCAP_SKINFOLD1 AS AN_SUBSCAP_SKINFOLD_MEAN
 - o GO TO AN SUBSCAP SNFLD CNO REAS.

PMC81000/(AN_SUBSCAP_SKINFOLD3). SUBSCAPULAR SKINFOLD MEASUREMENT 3
MEASURED SUBSCAPULAR SKINFOLD mm.
DATA COLLECTOR INSTRUCTIONS
OBTAIN SUBSCAPULAR SKINFOLD.

Label	Code	Go To
REFUSED	-1	
COULD NOT OBTAIN	-8	

- IF MEASUREMENT IS < 0 OR > 67 MM. DISPLAY HARD EDIT.
- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE SOFT EDITS. IF MEASUREMENT FALLS OUTSIDE SOFT EDIT RANGE BASED ON AGE AND GENDER, WHERE CHILD AGE IS CALCULATED USING CHILD_DOB AND VISIT DATE, DISPLAY SOFT EDIT.
- IF AN_SUBSCAP_SKINFOLD1 ≠ -1, -8 OR -4, AN_SUBSCAP_SKINFOLD2 ≠ -1, -8 OR -4, AND AN SUBSCAP SKINFOLD3 ?≠ -1, -8 OR -4:

- o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE:
 - SAVE THE MIDDLE MEASURE AS AN SUBSCAP SKINFOLD MEAN
 - GO TO AN_MEAS_SUBSCAP_SKINFOLD_COM.
- o IF THE HIGHEST AND LOWEST MEASUREMENTS ARE NOT EQUIDISTANT FROM THE MIDDLE MEASURE:
 - CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS OF AN_SUBSCAP_SKINFOLD1, AN_SUBSCAP_SKINFOLD2, AND AN_SUBSCAP_SKINFOLD3, SAVE THE VALUE AS AN_SUBSCAP_SKINFOLD_MEAN
 - GO TO AN MEAS SUBSCAP SKINFOLD COM.
- IF AN SUBSCAP SKINFOLD3 = -1 OR -8:
 - CALCULATE THE MEAN OF AN_SUBSCAP_SKINFOLD1 AND
 AN_SUBSCAP_SKINFOLD2, SAVE AS AN_SUBSCAP_SKINFOLD_MEAN
 GO TO AN_SUBSCAP_SNFLD_CNO_REAS.

PMC82000/(AN_SUBSCAP_SNFLD_CNO_REAS).

DATA COLLECTOR INSTRUCTIONS

- ENTER REASON(S) YOU COULD NOT OBTAIN SUBSCAPULAR SKINFOLD MEASUREMENT(S).
- SELECT ALL THAT APPLY.

Label	Code	Go To
PARENT/CAREGIVER	1	
REFUSAL		
CHILD REFUSAL	2	
COMMUNICATION ISSUES	3	
PARENT/CAREGIVER	4	
ILL/EMERGENCY		
CHILD ILL/EMERGENCY	5	
NO TIME	6	
EQUIPMENT FAILURE	7	
SAFETY EXCLUSION	8	
PHYSICAL LIMITATION	9	
DATA COLLECTOR ERROR	10	
OTHER	-5	
NONE GIVEN	-7	

- IF AN_SUBSCAP_SNFLD_CNO_REAS = ANY COMBINATION OF RESPONSES 1 10, GO TO AN MEAS SUBSCAP SKINFOLD COM.
- IF AN_SUBSCAP_SNFLD_CNO_REAS = -5 OR ANY COMBINATION OF RESPONSES 1 - 10 AND -5, GO TO AN_SUBSCAP_SNFLD_CNO_REAS_OTH.
- OTHERWISE, IF AN_SUBSCAP_SNFLD_CNO_REAS = -7:
 - o DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSES

PROGRAMMER	INSTRUC	TIONS

o GO TO AN MEAS SUBSCAP SKINFOLD COM.

PMC83000/(AN_	_SUBSCAP_	_SNFLD_	_CNO_	_REAS_	OTH)
SPECIFY:					

PMC84000/(AN_MEAS_SUBSCAP_SKINFOLD_COM).

DATA COLLECTOR INSTRUCTIONS

ENTER COMMENT(S) ABOUT SUBSCAPULAR SKINFOLD MEASUREMENT(S).

Label	Code	Go To
NONE	1	PMC86000
OTHER	-5	

PMC85000/(AN_MEAS_SUBSCAP_SKINFOLD_COM_OTH).	
SPECIFY:	

PMC86000. WEIGHT IN POUNDS AND OUNCES: $\{AN_CONV_WEIGHT_LBS\}$, $\{AN_CONV_WEIGHT_OZ\}$

RECUMBENT LENGTH IN INCHES: {AN_CONV_RECUMB_LENGTH} STANDING HEIGHT IN INCHES: {AN_CONV_STAND_HEIGHT}

PROGRAMMER INSTRUCTIONS

- CONVERTING WEIGHT AND HEIGHT/LENGTH TO ENGLISH MEASURES FOR ALL EVENTS.
 - o IF AN_WT_MEAS_MEAN CALCULATED, CREATE DERIVED VARIABLES, AN_CONV_WEIGHT_LBS AND AN_CONV_WEIGHT_OZ BY CONVERTING AVERAGE WEIGHT IN KILOGRAMS TO POUNDS AND OUNCES WHERE:
 - WEIGHT IN POUNDS = [AN_WT_MEAS_MEAN X 2.2046] AND SAVE AS AN_CONV_WEIGHT_LBS
 - WEIGHT IN OUNCES = MULTIPLY DECIMAL FRACTION BY 16, ROUND TO NEAREST OUNCE, AND SAVE AS AN_CONV_WEIGHT_OZ.
 - O IF AN_ADJ_RECUMB_LENGTH CALCULATED, CREATE AN_CONV_RECUMB_LENGTH BY CONVERTING ADJUSTED RECUMBENT LENGTH IN CENTIMETERS TO INCHES WHERE AN_CONV_RECUMB_LENGTH = [AN_ADJ_RECUMB_LENGTH X 0.39], AND SAVE AN CONV RECUMB LENGTH.
 - O IF AN_ADJ_STAND_HEIGHT ?CALCULATED,
 CREATE AN_CONV_STAND_HEIGHT BY CONVERTING ADJUSTED
 STANDING HEIGHT IN CENTIMETERS TO INCHES
 WHERE AN_CONV_STAND_HEIGHT = [AN_ADJ_STAND_HEIGHT X 0.39],
 AND SAVE AS AN CONV STAND HEIGHT.

PROGRAMMER INSTRUCTIONS

• IF MEASURE(S) CALCULATED, DISPLAY

AN_CONV_WEIGHT_LBS, AN_CONV_WEIGHT_OZ, AN_CONV_RECUMB_LENGT

H, AND/OR AN CONV STAND HEIGHT.

 OTHERWISE, IF MEASURE(S) COULD NOT BE CALCULATED, DISPLAY "COULD NOT BE OBTAINED" AS APPROPRIATE.

DATA COLLECTOR INSTRUCTIONS

- RECORD THE CONVERTED WEIGHT, HEIGHT AND/OR LENGTH FOR THE CHILD ON THE REPORT OF FINDING FORM.
- IF "COULD NOT BE OBTAINED" IS DISPLAYED, CHECK BOX FOR 'COULD NOT OBTAIN' AS APPROPRIATE.

PMC88000. {Thank you for taking the time to answer these questions./Thank you for having {C_FNAME/the child} complete these measures.}

PROGRAMMER INSTRUCTIONS

- IF AN_WT_MEAS1 = -1, -8 OR -4, AN_RECUMB_LENGTH1 = -1, -8 OR -4, AN_THIGH_LENGTH = -1, -8 OR -4, AN_WAIST_CIRC1 = -1, -8 OR -4, AN_HEAD_CIRC1 = -1, -8 OR -4, AN_UPPER_ARM_LENGTH = -1, -8 OR -4, AN_LOWER_ARM_LENGTH1 = -1, -8 OR -4, AN_TRICEPS_SKINFOLD1 = -1, -8 OR -4, AND AN_SUBSCAP_SKINFOLD1 = -1, -8 OR -4, DISPLAY FIRST BRACKETED PHRASE.
- OTHERWISE, DISPLAY SECOND BRACKETED PHRASE.
- IF 12-MONTH EVENT (**EVENT_TYPE** = 27), 24-MONTH EVENT (**EVENT_TYPE** = 31), 36-MONTH EVENT (**EVENT_TYPE** = 37), 48-MONTH EVENT (**EVENT_TYPE** = 39), OR 60-MONTH EVENT (**EVENT_TYPE** = XX), PROCEED TO BLOOD PRESSURE INSTRUMENT (**BP_INTRO**).

(TIME STAMP PMC ET).

PROGRAMMER INSTRUCTIONS

INSERT DATE/TIME STAMP

APPENDIX A: BP SPECS- PROGRAMMER'S INSTRUCTION FOR ROF AND REFERRALS

IF CHILD SEX = 1:

- IF VALID RESPONSE PROVIDED FOR AN_STAND_HEIGHT_MEAN IN ANTHROPOMETRY MODULE, CALCULATE CHILD'S AGE USING CURRENT DATE AND CHILD_DOB AND THEN CHECK CHILD'S AGE AND AN_STAND_HEIGHT_MEAN AGAINST APPENDIX B, APPENDIX C-1, AND TABLE A-1 (REFERRAL TABLE).
- IF VALID RESPONSE PROVIDED FOR AN_RECUMB_LENGTH_MEAN IN ANTHROPOMETRY MODULE, CALCULATE CHILD'S AGE USING CURRENT DATE AND CHILD_DOB AND THEN CHECK CHILD'S AGE AND AN_RECUMB_LENGTH_MEAN AGAINST APPENDIX B, APPENDIX C-2, AND TABLE A-1 (REFERRAL TABLE).
- COMPARE REFERRAL CATEGORY DETERMINED USING AN_STAND_HEIGHT_MEAN WITH REFERRAL CATEGORY DETERMINED USING AN_RECUMB_LENGTH_MEAN IF VALID RESPONSES FOR BOTH IN ANTHROPOMETRY MODULE. IF THE RESULTING REFERRAL CATEGORIES DIFFER, USE THE LOWER CATEGORY LEVEL FOR THE REPORT OF FINDINGS.
- OTHERWISE, IF VALID RESPONSE NOT PROVIDED FOR AN_RECUMB_LENGTH_MEAN IN ANTHROPOMETRY MODULE, CALCULATE CHILD'S AGE USING CURRENT DATE AND CHILD_DOB AND THEN CHECK CHILD'S AGE AGAINST APPENDIX D AND TABLE A-1 (REFERRAL TABLE).

IF CHILD SEX = 2:

- IF VALID RESPONSE PROVIDED FOR AN_STAND_HEIGHT_MEAN IN ANTHROPOMETRY MODULE, CALCULATE CHILD'S AGE USING CURRENT DATE AND CHILD_DOB AND THEN CHECK CHILD'S AGE AND AN_STAND_HEIGHT_MEAN AGAINST APPENDIX B, APPENDIX F-1, AND TABLE A-1 (REFERRAL TABLE).
- IF VALID RESPONSE PROVIDED FOR AN_RECUMB_LENGTH_MEAN IN ANTHROPOMETRY MODULE, CALCULATE CHILD'S AGE USING CURRENT DATE AND CHILD_DOB AND THEN CHECK CHILD'S AGE AND AN_RECUMB_LENGTH_MEAN AGAINST APPENDIX E, APPENDIX F-2 AND TABLE A-1 (REFERRAL TABLE).
- COMPARE REFERRAL CATEGORY DETERMINED USING AN_STAND_HEIGHT_MEAN WITH REFERRAL CATEGORY DETERMINED USING AN_RECUMB_LENGTH_MEAN IF VALID RESPONSES FOR BOTH IN ANTHROPOMETRY MODULE. IF THE RESULTING REFERRAL CATEGORIES DIFFER, USE THE LOWER CATEGORY LEVEL FOR THE REPORT OF FINDINGS.
- OTHERWISE, IF VALID RESPONSE NOT PROVIDED FOR IN ANTHROPOMETRY MODULE AN_RECUMB_LENGTH_MEAN, CALCULATE CHILD'S AGE USING CURRENT DATE AND CHILD_DOB AND THEN CHECK CHILD'S AGE AGAINST APPENDIX G AND TABLE A-1 (REFERRAL TABLE).

APPENDIX B: ANTHROPOMETRY EDIT RANGES

Measure	Age (years)	Gender	Soft edit	
			Low	High
Weight	< 1	М	7.5	11.7
		F	6.9	11.2
	1 - <2	М	7.7	15.3
		F	7.1	14.8
	2 - <3	М	10.4	18.1
		F	10.05	15.1
	<4	М	11.5	20.7
		F	11.5	21.3
	<5	М	13.3	24.2
		F	12.9	24.9
	<6	М	14.8	28.3
		F	14.5	28.9
	<7	М	16.6	32.5
		F	16.0	33.4
	<8	М	18.4	37.4
		F	17.9	38.5
	<9	М	20.3	43.1
		F	19.7	44.6
Recumbent Length (cm)	< 1	М	61.7	79.7
		F	59.6	79.2
	1 - <2	М	70.9	93.9
		F	68.9	91.7
	2 - <3	М	82.2	102.0
		F	82.0	102.0
	<4	М	82.0	102.0
	<4	F	82.0	102.0
Height Adjustment-Below waist	–ALL	М	2.0	N/A
	ALL	F	N/A2.0	N/A
Height Adjustment-Above waist	ALL	М	2.0	N/A
	ALL	F	2.0	N/A
Femur Length (cm)	< 1	М	14.5	23.0
		F	14.5	23.0
	1 - <2	М	14.5	23.0
		F	14.5	23.0
	2 - 3	М	14.5	23.0
		F	14.5	23.0
Thigh Circumference (cm)	< 1	М	23.1	34.0
		F	23.8	36.1
	1 - <2	М	23.1	34.0
		F	23.8	36.1
	2 - 3	М	23.1	34.0
		F	23.8	36.1
Waist Circumference (cm)	< 1	М	1	50.8
		F	1	52.2

Measure	Age (years)	Gender	Soft edit	
			Low	High
	1 - <2	М	1	50.8
		F	1	52.2
	2 - <3	М	10	54.2
		F	10	55.3
	<4	М	10	57.6
		F	10	58.3
	<5	М	10	61.0
		F	10	61.4
Head Circumference (cm)	< 1	М	43.4	48.2
		F	42.0	47.1
	1 - <2	М	43.2	51.0
		F	42.3	49.8
	2 - <3	M	45.7	52.1
		F	44.7	51.2
	<4	М	47.5	53.5
		F	45.9	52.6
Humerus and Ulnar Length (cm)	< 1	М	10.0	16.8
		F	9.5	16.0
	1 - <2	М	13.3	19.0
		F	12.8	19.0
	2 - <3	М	15.3	20.5
		F	15.1	20.9
Upper Arm Circumference	< 1	М	7.0	14.0
		F	7.0	14.0
	1 - <2	М	7.0	14.0
		F	7.0	14.0
	2 - <3	М	10.0	21.0
		F	10.0	21.0
	<4	М	15.0	27.0
		F	15.0	27.0
	<5	М	15.0	27.0
		F	15.0	27.0
	<6	М	15.0	35.0
		F	15.0	35.0
	<7	М	15.0	35.0
		F	15.0	35.0
	<8	М	15.0	35.0
		F	15.0	35.0
	<9	М	21.0	35.0
		F	21.0	35.0
Triceps Skinfold (mm)	< 1	М	6	16
		F	6	16
	1 - <2	М	5	15
		F	6	16
	2 - <3	М	5	14
		F	6	16
Subscapular Skinfold (mm)	< 1	М	5	13
		F	5	13

Measure	Age (years)	Gender	Soft edit	
			Low	High
	1 - <2	М	4	12
		F	4	13
	2 - <3	М	4	11
		F	4	15