OMB #: 0925-0593 OMB Expiration Date: 07/31/ 2013 Physical Measures Child Anthropometry Instrument, Phase 2e



Physical Measures Child Anthropometry Instrument

Event: 6-, 12-, or 24-Month

Participant: Child

Domain: Physical Measures

Type of Document: Data Collection Instrument

Allowable Mode: In Person

Allowable Method: CAPI

Recruitment Groups: EH, PB, HI

Version: 1.0

Release: MDES 3.0

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Physical Measures Child Anthropometry Instrument

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Physical Measures Child Anthropometry Instrument

(TIME_STAMP_AN_ST) PROGRAMMER INSTRUCTION:

• INSERT DATE/TIME STAMP

AN001/(ANTHRO_INTRO). Thank you for agreeing to participate in the National Children's Study. We will be measuring {C_FNAME/the child}'s weight and length as well as {his/her/their} head, waist, arm, and leg.

DATA COLLECTOR INSTRUCTIONS:

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

CONTINUE 1	(RESP_REL)
REFUSED1	

PROGRAMMER INSTRUCTIONS:

- IF **C_FNAME** COLLECTED DURING PREVIOUS INTEVIEW AND VALID RESPONSE PROVIDED, PRELOAD **C_FNAME**.
- OTHERWISE, IF C_FNAME NOT COLLECTED DURING PREVIOUS INTERVIEW OR VALID RESPONSE NOT PROVIDED, DISPLAY "the child".
- PRELOAD CHILD SEX FROM MOST RECENT INTERVIEW:
 - o IF CHILD SEX =1, DISPLAY "his".
 - o IF CHILD SEX = 2, DISPLAY "her".

AN002/(AN_REF_REASON). I am sorry that you have chosen not to participate in this activity. Can you please tell me why?

DATA COLLECTOR INSTRUCTION:

SELECT ALL THAT APPLY.

CONCERN ABOUT DISCOMFORT	1
CHILD TIRED/UNHAPPY	2
LANGUAGE ISSUE, SPANISH	3
LANGUAGE ISSUE, NON SPANISH	4
PARTICIPANT ILL/ EMERGENCY	5
NO TIME	
EQUIPMENT FAILURE	7
SAFETY EXCLUSION	8
PHYSICAL LIMITATION	9
TECHNICIAN ERROR	10
OTHER	_
NONE GIVEN	7

PROGRAMMER INSTRUCTIONS:

• IF RESPONSE CODE -7 SELECTED, DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSE CODES AND GO TO **AN_END_REF.**

- IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 SELECTED OR JUST ONE OF 1 THROUGH 10, GO TO AN_END_REF.
- IF RESPONSE CODE -5 SELECTED OR IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 AND -5 SELECTED, GO TO **AN_REF_REASON_OTH**.

SPECIFY:	
REFUSED1	(AN_END_REF
DON'T KNOW2	(AN END REF

PROGRAMMER INSTRUCTION:

• LIMIT FREE TEXT TO 255 CHARACTERS.

AN004/(AN_END_REF). That's fine. Thank you for your time.

PROGRAMMER INSTRUCTION:

• GO TO TIME_STAMP_AN_ET.

AN005/(RESP_REL). WHAT IS THE RELATIONSHIP OF THE PARENT OR CAREGIVER TO CHILD?

MOTHER	1 (AN_WT_MEAS1)
FATHER	2 (AN_WT_MEAS1)
OTHER	5

AN010/(RESP_REL_OTH).

SPECIFY	/	

PROGRAMMER INSTRUCTION:

• LIMIT TEXT TO 255 CHARACTERS.

AN015/(AN WT MEAS1). WEIGHT MEASUREMENT 1.

kg
6 (AN_RECUMB_LENGTH1)
1 (AN_WT_REFUS_REASON)
2 (AN_RECUMB_LENGTH1)

PROGRAMMER INSTRUCTIONS:

- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE HARD AND SOFT EDITS:
 - o IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED WEIGHT BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.
 - **0** IF MEASUREMENT IS < 1 OR > 199 KG, DISPLAY HARD EDIT.

AN020/(AN_WT_MEAS2). WEIGHT MEASUREMENT 2.

MEASURED WEIGHT	kg
REFUSED	1 (AN_WT_REFUS_REASON)
COULD NOT OBTAIN	2

PROGRAMMER INSTRUCTIONS:

- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE HARD AND SOFT EDITS:
 - o IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED WEIGHT BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.
 - O IF MEASUREMENT IS < 1 OR > 199 KG, DISPLAY HARD EDIT.
- IF VALID MEASURES PROVIDED FOR **AN_WT_MEAS1** AND **AN_WT_MEAS2**, CALCULATE 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, SAVE AS AN_WT_MEAS_MEAN. THEN GO TO AN_RECUMB_LENGTH1.
 - o IF AN_WT_MEAS1 AND AN_WT_MEAS2 DIFFER BY > 0.3 KG, GO TO AN WT MEAS3.
 - o GO TO AN_RECUMB_LENGTH1.
- IF AN WT MEAS2 = -1:
 - o SAVE **AN_WT_MEAS2** AS **AN_WT_MEAS_MEAN**.
 - o GO TO AN_WT_REFUS_REASON.
- IF AN_WT_MEAS2 = -2:
 - O SAVE AN_WT_MEAS2 AS AN_WT_MEAS_MEAN A
 - o GO TO AN_RECUMB_LENGTH1.

AN025/(AN WT MEAS3). THIRD WEIGHT MEASUREMENT

MEASURED WEIGHT	kg
REFUSED	1 (AN_WT_REFUS_REASON)
COULD NOT OBTAIN	-2

- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE HARD AND SOFT EDITS:
 - o IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED WEIGHT BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.
 - O IF MEASUREMENT IS < 1 OR > 199 KG, DISPLAY HARD EDIT.
- IF VALID MEASURES PROVIDED FOR AN_WT_MEAS1, AN_WT_MEAS2, AND AN WT STAND MEAS3:
 - o IF THE TWO OUTSIDE MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE, THEN SAVE THE MIDDLE MEASURE AS **AN WT MEAS MEAN**.
 - O IF THE TWO OUTSIDE 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**.
 - o GO TO AN RECUMB LENGTH1.
- IF AN WT MEAS3 = -1:

- O CALCULATE THE MEAN OF **AN_WT_MEAS1** AND **AN_WT_MEAS2**, AND SAVE AS **AN WT MEAS MEAN**.
- o GO TO AN WT REFUS REASON.
- IF AN WT MEAS3 = -2:
 - O CALCULATE THE MEAN OF **AN_WT_MEAS1** AND **AN_WT_MEAS2**, AND SAVE AS **AN WT MEAS MEAN**.
 - o GO TO AN RECUMB LENGTH1.

AN026/(AN_WT_REFUS_REASON).

DATA COLLECTOR INSTRUCTIONS:

- ENTER REASON YOU COULD NOT OBTAIN THE WEIGHT MEASURE.
- SELECT ALL THAT APPLY.

CONCERN ABOUT DISCOMFORT	1
CHILD TIRED/UNHAPPY	2
LANGUAGE ISSUE, SPANISH	3
LANGUAGE ISSUE, NON SPANISH	4
PARTICIPANT ILL/ EMERGENCY	5
NO TIME	
EQUIPMENT FAILURE	7
SAFETY EXCLUSION	8
PHYSICAL LIMITATION	9
TECHNICIAN ERROR	10
OTHER	5
NONE GIVEN	7

- IF RESPONSE CODE -7 SELECTED, DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSE CODES AND GO TO AN RECUMB LENGTH1.
- IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 SELECTED OR JUST ONE RESPONSE OF 1 THROUGH 10 SELECTED, GO TO AN RECUMB LENGTH1.
- IF RESPONSE CODE -5 SELECTED OR IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 AND -5 SELECTED, GO TO AN WT REFUS REASON OTH.

CODES 1 THROUGH 10 AND -5 SELECTED, GO TO AN_WT_REFUS_REASON
AN018/(AN_WT_REFUS_REASON_OTH) SPECIFY
PROGRAMMER INSTRUCTIONS:LIMIT FREE TEXT TO 255 CHARACTERS.
AN030/(AN_RECUMB_LENGTH1). FIRST RECUMBENT LENGTH.
MEASURED RECUMBENT LENGTH6 EXCEEDS CAPACITY6 REFUSED1 (AN_LENGTH_REFUS_REASON) COULD NOT OBTAIN2 (AN_MEASUREMENT_WT_LENGTH_COM)

AN035/(AN_RECUMB_LENGTH2). SECOND RECUMBENT LENGTH.

MEASURED RECUMBENT LENGTH			cm		
REFUSED	1	(AN	LENGTH	_REFUS_	_REASON
COULD NOT OBTAIN	-2				

PROGRAMMER INSTRUCTIONS:

- IF VALID MEASURES PROVIDED FOR **AN_RECUMB_LENGTH1** AND **AN_RECUMB_LENGTH2**, CALCULATE THE DIFFERENCE BETWEEN **AN_RECUMB_LENGTH1** AND **AN_RECUMB_LENGTH2**:
 - O IF AN_RECUMB_LENGTH1 AND AN_RECUMB_LENGTH2 DIFFER BY ≤ 1.0 CM, CALCULATE THE MEAN OF AN_RECUMB_LENGTH1 AND AN_RECUMB_LENGTH2, SAVE AS AN_RECUMB_LENGTH_MEAN, AND THEN 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.
- IF AN RECUMB LENGTH2 = -1:
 - O SAVE AN_RECUMB_LENGTH1 AS AN_RECUMB_LENGTH_MEAN.
 - o GO TO AN_LENGTH_REFUS_REASON.
- IF AN_RECUMB_LENGTH2 = -2:
 - O SAVE AN_RECUMB_LENGTH1 AS AN_RECUMB_LENGTH_MEAN.
 - o GO TO AN_ABOVE_WAIST_ADJ_RECUMB.

AN040/(AN_RECUMB_LENGTH3). THIRD RECUMBENT LENGTH.

MEASURED RECUMBENT LENGTH	cm
REFUSED	1 (AN_LENGTH_REFUS_REASON)
COULD NOT OBTAIN	2

- IF VALID MEASURES PROVIDED FOR **AN_RECUMB_LENGTH1**, **AN_RECUMB_LENGTH2**, AND **AN_RECUMB_LENGTH_3**:
 - O IF THE TWO OUTSIDE MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE, THEN SAVE THE MIDDLE MEASURE AS AN RECUMB LENGTH MEAN.
 - o IF THE TWO OUTSIDE 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**.
- IF AN RECUMB LENGTH3 = -1:
 - O CALCULATE THE MEAN OF **AN_RECUMB_LENGTH1** AND **AN_RECUMB_LENGTH2**, AND SAVE AS **AN_RECUMB_LENGTH_MEAN**.
 - o GO TO AN_LENGTH_REFUS_REASON.
- OTHERWISE, IF **AN RECUMB LENGTH3** = -2:
 - O CALCULATE THE MEAN OF **AN_RECUMB_LENGTH1** AND **AN_RECUMB_LENGTH2**, AND SAVE AS **AN_RECUMB_LENGTH_MEAN**.
 - 0 GO TO AN_ABOVE_WAIST_ADJ_RECUMB.
- FOR AN_ABOVE_WAIST_ADJUST_RECUMB AND AN_BELOW_WAIST_ADJUST_RECUMB BELOW, DISPLAY HARD EDIT IF WAIST ADJUSTEMENT IS < 0 OR >15.2 CM.

AN045/(AN	N_ABOVE_WAIST_ADJ_RECUMB). ABOVE WAIST ADJUSTMENT (RECUMBENT).
	L LECTOR INSTRUCTION: TER "0" IF NO ADJUSTMENT IS NEEDED.
ABO	OVE WAIST ADJUSTMENT cm
•	N_BELOW_WAIST_ADJ_RECUMB). BELOW WAIST ADJUSTMENT ECUMBENT).
	LLECTOR INSTRUCTION: TER "0" IF NO ADJUSTMENT IS NEEDED.
BEL	LOW WAIST ADJUSTMENT
AN055/(AN	N_ADJ_RECUMB_LENGTH). ADJUSTED RECUMBENT LENGTH.
AD	JUSTED RECUMBENT LENGTH cm
• SUE AN SAV	MMER INSTRUCTION: BTRACT AN_ABOVE_WAIST_ADJ_RECUMB AND _BELOW_WAIST_ADJ_RECUMB FROM AN_RECUMB_LENGTH_MEAN AND VE AS AN_ADJ_RECUMB_LENGTH. VALID MEASURES PROVIDED FOR AN_RECUMB_LENGTH1 AND _RECUMB_LENGTH2, GO TO AN_MEASUREMENT_ WT_LENGTH_COM.
AN056/(AN	N_LENGTH_REFUS_REASON).
• EN	L LECTOR INSTRUCTION: TER REASON FOR REFUSING THE LENGTH MEASURE(S). LECT ALL THAT APPLY.
CHI LAN PAF NO EQI SAF PH' TEC OTI	NCERN ABOUT DISCOMFORT 1 ILD TIRED/UNHAPPY 2 NGUAGE ISSUE, SPANISH 3 NGUAGE ISSUE, NON SPANISH 4 RTICIPANT ILL/ EMERGENCY 5 TIME 6 UIPMENT FAILURE 7 FETY EXCLUSION 8 YSICAL LIMITATION 9 CHNICIAN ERROR 10 HER -5 NE GIVEN -7

PROGRAMMER INSTRUCTIONS:

• IF RESPONSE CODE -7 SELECTED, DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSE CODES AND GO TO AN_MEASUREMENT_RECUM_LENGTH_COM.

- IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 SELECTED OR JUST ONE RESPONSE OF 1 THROUGH 10 SELECTED, GO TO
 - AN_MEASUREMENT_RECUM_LENGTH_COM.
- IF RESPONSE CODE -5 SELECTED OR IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 AND -5 SELECTED, GO TO AN LENGTH REFUS REASON OTH.

AN057/(AN L	.ENGTH	REFUS	REASON_	OTH)

SPECIFY:	
REFUSED	1
DON'T KNOW	

AN060/(AN MEASUREMENT RECUM LENGTH COM).

DATA COLLECTION INSTRUCTION:

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

NONE	1 (AN_FEMUR_LENGTH)
POSITION NOT STRAIGHT FOR LENGTH	•
MEDICAL APPLIANCE/CAST NOT REMOVED	3 (AN_FEMUR_LENGTH)
AMPUTATION – LEG	4 (AN_FEMUR_LENGTH)
AMPUTATION – ARM	5 (AN_FEMUR_LENGTH)
OTHER	5

PROGRAMMER INSTRUCTIONS:

- IF RESPONSE CODE OF 1 SELECTED, DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSE CODES.
- IF ANY COMBINATION OF RESPONSE CODES 2 THROUGH 5 SELECTED OR JUST ONE OF THE RESPONSES 2 THROUGH 5 SELECTED, GO TO AN_FEMUR_LENGTH.
- IF RESPONSE CODE -5 SELECTED OR ANY COMBINATION OF 2 THROUGH 5 AND -5 SELECTED, GO TO AN MEASUREMENT RECUMB LENGTH COM OTH.
- IF AN_WT_MEAS1, AN_WT_MEAS2, OR AN_WT_MEAS3 = -2, DISPLAY "PLEASE ENTER THE REASON YOU COULD NOT OBTAIN THE WEIGHT MEASURE."
- IF AN_RECUMB_LENGTH1, AN_RECUMB_LENGTH2, OR AN_RECUMB_LENGTH3 = -2, DISPLAY "PLEASE ENTER THE REASON YOU COULD NOT OBTAIN THE LENGTH MEASURE."

AN061/(AN_	${f _MEASUREMENT}_{f _}$	_LENGTH_	_COM_OTH).	

SPECIFY		
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PROGRAMMER INSTRUCTIONS:

LIMIT FREE TEXT TO 255 CHARACTERS.

AN065/(AN_	FEMUR	LENGTH).	FEMUR	LENGTH

MEASURED FEMUR LENGTH		cm.	
REFUSED	1 (AN_	_WAIST_	CIR1)
COULD NOT OBTAIN	2 (AN	WAIST	CIR1

AN070/(AN MID FEMUR LENGTH).

PROGRAMMER INSTRUCTIONS:

CREATE DERIVED VARIABLE AN_MID_FEMUR_LENGTH WHERE
 AN_MID_FEMUR_LENGTH = AN_FEMUR_LENGTH/2 AND STORE AND DISPLAY
 ON SCREEN AS AN FEMUR LENGTH/2.

AN075/(AN_THIGH_CIR1). THIGH CIRCUMFERENCE 1

MEASURED THIGH CIRCUMFERENCE			cm.
REFUSED	-1 (AN_	_WAIST_	CIR1)
COULD NOT OBTAIN	-2 (AN	_WAIST	CIR1)

DATA COLLECTOR INSTRUCTION:

TAKE THIGH CIRCUMFERENCE AT THE MIDPOINT OF FEMUR LENGTH.

PROGRAMMER INSTRUCTIONS:

- GO TO APPENDIX A TO DETERMINE HARD AND SOFT EDITS:
 - O IF PARTICIPANT IS 24 MONTHS OR OLDER BASED ON CALCULATION OF CHILD AGE USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED THIGH CIRCUMFERENCE BASED ON AGE AND GENDER.
 - O IF MEASUREMENT IS <0 OR > 200 CM, DISPLAY HARD EDIT.

AN080/(AN_THIGH_CIR2). THIGH CIRCUMFERENCE 2

MEASURED THIGH CIRCUMFERENCE	···· <u> </u>	cm.
REFUSED	-1	
COULD NOT OBTAIN	-2	

DATA COLLECTOR INSTRUCTION:

TAKE THIGH CIRCUMFERENCE AT THE MIDPOINT OF FEMUR LENGTH.

- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE HARD AND SOFT EDITS:
 - O IF PARTICIPANT IS 24 MONTHS OR OLDER BASED ON CALCULATION OF CHILD AGE USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED THIGH CIRCUMFERENCE BASED ON AGE AND GENDER.
 - O IF MEASUREMENT IS < 0 OR > 200 CM, DISPLAY HARD EDIT.
- IF VALID MEASURES PROVIDED FOR AN_THIGH_CIR1 AND AN_THIGH_CIR2, CALCULATE THE DIFFERENCE BETWEEN AN_THIGH_CIR1 AND AN_THIGH_CIR2:

- O IF AN_THIGH_CIR1 AND AN_THIGH_CIR2 DIFFER BY ≤ 0.5 CM, CALCULATE THE MEAN OF AN_THIGH_CIR1 AND AN_THIGH_CIR2, SAVE AS AN_THIGH_CIR_MEAN, AND THEN GO TO AN_MEASUREMENT_THIGH_CIR_COM.
- O IF AN_THIGH_CIR1 AND AN_THIGH_CIR2 DIFFER BY > 0.5 CM, GO TO AN THIGH CIR3.
- O GO TO AN MEASUREMENT THIGH CIR COM.
- IF AN THIGH CIR2 = -1:
 - o SAVE AN_THIGH_CIR1 AS AN_THIGH_CIR_MEAN.
 - o GO TO AN_THIGH_CIRC_REFUS_REASON.
- OTHERWISE, IF AN THIGH CIR2 = -2:
 - O SAVE AN THIGH CIR1 AS AN THIGH CIR MEAN.
 - o GO TO AN MEASUREMENT THIGH CIR COM.

AN085/(AN_MID_THIGH_CIR3). THIGH CIRCUMFERENCE 3

MEASURED THIGH CIRCUMFERENCE	···· <u> </u>	cm.
REFUSED	-1	
COULD NOT OBTAIN	-2	

DATA COLLECTOR INSTRUCTION:

TAKE THIGH CIRCUMFERENCE AT THE MIDPOINT OF FEMUR LENGTH.

- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE HARD AND SOFT EDITS:
 - O IF PARTICIPANT IS 24 MONTHS OR OLDER BASED ON CALCULATION OF CHILD AGE USING CHILD_DOB AND VISIT_DATE, DISPLAY SOFT EDIT IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED THIGH CIRCUMFERENCE BASED ON AGE AND GENDER.
 - O IF MEASUREMENT IS <0 OR > 200 CM, DISPLAY HARD EDIT.
- IF VALID MEASURES PROVIDED FOR **AN_THIGH_CIR1**, **AN_THIGH_CIR2**, AND **AN_THIGH_CIR3**:
 - o IF THE TWO OUTSIDE MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE, THEN SAVE THE MIDDLE MEASURE AS AN_THIGH_CIR_MEAN.
 - O IF THE TWO OUTSIDE MEASUREMENTS ARE NOT EQUIDISTANT FROM THE MIDDLE MEASURE, CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS OF AN_THIGH_CIR1, AN_THIGH_CIR2, AND AN THIGH CIR3 AND SAVE THE VALUE AS AN THIGH CIR MEAN.
 - O GO TO AN MEASUREMENT THIGH CIR COM.
- IF AN THIGH CIR3 = -1:
 - O CALCULATE THE MEAN OF **AN_THIGH_CIR2** AND **AN_THIGH_CIR2**, AND SAVE AS **AN_THIGH_CIR_MEAN**.
 - 0 GO TO AN_THIGH_CIRC_REFUS_REASON.
- OTHERWISE, IF AN_THIGH_CIR3 = -2:

- O CALCULATE THE MEAN OF **AN_THIGH_CIR2** AND **AN_THIGH_CIR2**, AND SAVE AS **AN_THIGH_CIR_MEAN**.
- O GO TO AN MEASUREMENT THIGH CIR COM.

AN086/(AN_THIGH_CIRC_REFUS_REASON).

DATA COLLECTOR INSTRUCTION:

- SELECT ALL THAT APPLY.
- ENTER REASON FOR REFUSING THE CIRCUMFERENCE MEASURE.

CONCERN ABOUT DISCOMFORT	
CHILD TIRED/UNHAPPY	2
LANGUAGE ISSUE, SPANISH	3
LANGUAGE ISSUE, NON SPANISH	4
PARTICIPANT ILL/ EMERGENCY	5
NO TIME	
EQUIPMENT FAILURE	7
SAFETY EXCLUSION	8
PHYSICAL LIMITATION	9
TECHNICIAN ERROR	10
OTHER	5
NONE GIVEN	7

PROGRAMMER INSTRUCTIONS:

- IF RESPONSE CODE -7 SELECTED, DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSE CODES AND GO TO AN MEASUREMENT THIGH CIR COM.
- IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 SELECTED OR JUST ONE RESPONSE OF 1 THROUGH 10 SELECTED, GO TO AN_MEASUREMENT_THIGH_CIR_COM.
- IF RESPONSE CODE -5 SELECTED OR IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 AND -5 SELECTED, GO TO AN_THIGH_CIRC_REFUS_REASON_OTH.

AN087/(AN THIGH CIRC REFUS REASON OTH).

SPECIFY:	
REFUSED	1
DON'T KNOW	

AN090/(AN_MEASUREMENT_THIGH_CIR_COM).

DATA COLLECTION INSTRUCTION:

- SELECT ALL THAT APPLY.
- ENTER COMMENTS ABOUT FEMUR LENGTH AND THIGH CIRCUMFERENCE MEASUREMENTS.

NONE	1
MEASUREMENT TAKEN OVER THICK CLOTHING	2
MEASUREMENT TAKEN ON LEFT THIGH	3
MEDICAL APPLIANCE/CAST NOT REMOVED	4

C	THER5
• 	AMMER INSTRUCTIONS: F RESPONSE CODE 1 SELECTED, DO NOT ALLOW SELECTION OF ADDITIONAL ESPONSE CODES AND GO TO AN_WAIST_CIR1. F ANY COMBINATION OF RESPONSE CODES 2 THROUGH 3 SELECTED, GO TO N_WAIST_CIR1. F RESPONSE CODE -5 SELECTED OR IF ANY COMBINATION OF RESPONSE ODES 2 THROUGH 3 AND -5 SELECTED, GO TO N_MEASUREMENT_THIGH_CIR_OTH. F AN_MID_THIGH_CIR1, AN_MID_THIGH_CIR2, OR AN_MID_THIGH_CIR3 = -2, ISPLAY "PLEASE ENTER THE REASON YOU COULD NOT OBTAIN THE MID THIGH IRCUMFERENCE MEASURE."
	AN_MEASUREMENT_THIGH_CIR_COM_OTH). DATA COLLECTOR IEASUREMENT COMMENTS
S	PECIFY
	AMMER INSTRUCTION: IMIT FREE TEXT TO 255 CHARACTERS.
AN100/(AN_WAIST_CIR1). WAIST CIRCUMFERENCE 1
F	IEASURED WAIST CIRCUMFERENCE
• (AMMER INSTRUCTIONS: O TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE HARD ND SOFT EDITS: O IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED WAIST CIRCUMFERENCE BASED ON AGE AND GENDER, DISPLAY SOFT EDIT. O IF MEASUREMENT IS <0 OR > 200 CM, DISPLAY HARD EDIT.
AN105/(AN_WAIST_CIR2). WAIST CIRCUMFERENCE 2
F	IEASURED WAIST CIRCUMFERENCE
• (AMMER INSTRUCTIONS: O TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE HARD ND SOFT EDITS:

AMPUTATION – LEG......5

0 IF MEASUREMENT IS <0 OR > 200 CM, DISPLAY HARD EDIT.

O IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED WAIST CIRCUMFERENCE BASED ON AGE AND GENDER, DISPLAY SOFT

EDIT.

- IF VALID MEASURES PROVIDED FOR AN_WAIST_CIR1 AND AN_WAIST_CIR2, CALCULATE THE DIFFERENCE BETWEEN AN_WAIST_CIR1 AND AN_WAIST_CIR2:
 - O IF AN_WAIST_CIR1 AND AN_WAIST_CIR2 DIFFER BY ≤ 1.0 CM, CALCULATE THE MEAN OF AN_WAIST_CIR1 AND AN_WAIST_CIR2, SAVE AS AN_WAIST_CIR_MEAN, AND THEN GO TO AN MEASUREMENT WAIST CIR COM.
 - O IF AN_WAIST_CIR1 AND AN_WAIST_CIR2 DIFFER BY > 1.0 CM, GO TO AN WAIST CIR3.
- IF AN WAIST CIR2 = -1:
 - O SAVE AN WAIST CIR1 AS AN WAIST CIR MEAN
 - o GO TO AN WAIST CIRC REFUS REASON.
- IF AN WAIST CIR2 = -2:
 - O SAVE AN WAIST CIR1 AS AN WAIST CIR MEAN
 - o GO TO AN MEASUREMENT WAIST CIR COM

AN110/(AN_WAIST_CIR3). WAIST CIRCUMFERENCE 3

MEASURED WAIST CIRCUMFERENCE	cm.
REFUSED1	
COULD NOT OBTAIN2 (A	AN MEASUREMENT WAIST CIR COM)

- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE HARD AND SOFT EDITS:
 - o IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED WAIST CIRCUMFERENCE BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.
 - **0** IF MEASUREMENT IS <0 OR > 200 CM, DISPLAY HARD EDIT.
- IF VALID MEASURES PROVIDED FOR **AN_WAIST_CIR1**, **AN_WAIST_CIR2**, AND **AN_WAIST_CIR3**:
 - **O** IF THE TWO OUTSIDE MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE, THEN SAVE THE MIDDLE MEASURE AS AN_WAIST_CIR_MEAN.
 - O IF THE TWO OUTSIDE MEASUREMENTS ARE NOT EQUIDISTANT FROM THE MIDDLE MEASURE, CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS OF **AN_WAIST_CIR1**, **AN_WAIST_CIR2**, AND **AN_WAIST_CIR3** AND SAVE THE VALUE AS **AN_WAIST_CIR_MEAN**.
 - O GO TO AN_MEASUREMENT_ WAIST CIR COM.
- IF AN WAIST CIR3 = -1:
 - O CALCULATE THE MEAN OF **AN_WAIST_CIR1** AND **AN_WAIST_CIR2**, AND SAVE AS **AN WAIST CIR MEAN**.
 - 0 GO TO AN_WAIST_CIRC_REFUS_REASON.
- IF AN WAIST CIR3 = -2:
 - O CALCULATE THE MEAN OF **AN_WAIST_CIR1** AND **AN_WAIST_CIR2**, AND SAVE AS **AN WAIST CIR MEAN**.
 - o GO TO AN_MEASUREMENT_WAIST_CIR_COM

AN111/(AN_WAIST_CIRC_REFUS_REASON).

DATA COLLECTOR INSTRUCTION:

- SELECT ALL THAT APPLY.
- ENTER REASON FOR REFUSING THE CIRCUMFERENCE MEASURE.

CONCERN ABOUT DISCOMFORT	1
CHILD TIRED/UNHAPPY	2
LANGUAGE ISSUE, SPANISH	3
LANGUAGE ISSUE, NON SPANISH	4
PARTICIPANT ILL/ EMERGENCY	5
NO TIME	
EQUIPMENT FAILURE	7
SAFETY EXCLUSION	8
PHYSICAL LIMITATION	9
TECHNICIAN ERROR	10
OTHER	5
NONE GIVEN	7

PROGRAMMER INSTRUCTIONS:

- IF RESPONSE CODE -7 SELECTED, DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSE CODES AND GO TO AN MEASUREMENT WAIST CIR COM.
- IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 SELECTED OR JUST ONE RESPONSE OF 1 THROUGH 10 SELECTED, GO TO AN MEASUREMENT WAIST CIR COM.
- IF RESPONSE CODE -5 SELECTED OR IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 AND -5 SELECTED, GO TO AN_WAIST_CIRC_REFUS_REASON_OTH.

AN112/(AN_WAIST_CIRC_REFUS_REASON_OTH).

SPECIFY:	_
REFUSED	 1
DON'T KNOW	-2

PROGRAMMER INSTRUCTION:

LIMIT FREE TEXT TO 255 CHARACTERS.

AN115/(AN_MEASUREMENT_WAIST_CIR_COM).

DATA COLLECTOR INSTRUCTIONS:

- SELECT ALL THAT APPLY
- ENTER COMMENTS ABOUT WAIST CIRCUMFERENCE MEASUREMENTS.

NONE	1
MEASUREMENT TAKEN OVER THICK CLOTHING	
MEDICAL APPLIANCE/CAST NOT REMOVED	3
OTHER	

- IF RESPONSE CODE 1 SELECTED, DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSE CODES AND GO TO AN HEAD CIR1.
- IF RESPONSE CODE 2 SELECTED, GO TO AN_HEAD_CIR1.
- OTHERWISE, IF RESPONSE CODE -5 SELECTED OR IF RESPONSE CODES 2 AND 5 SELECTED, GO TO AN MEASUREMENT WAIST CIR OTH.
- IF AN_WAIST_CIR1, AN_WAIST_CIR2, OR AN_WAIST_CIR3 = -2, DISPLAY "PLEASE ENTER THE REASON YOU COULD NOT OBTAIN THE WAIST CIRCUMFERENCE MEASURE."

AN120/(AN_MEASUREMENT_WAIST_CIR_COM_OTH). DATA COLLECTOR MEASUREMENT COMMENTS
SPECIFY
PROGRAMMER INSTRUCTION:LIMIT FREE TEXT TO 255 CHARACTERS.
AN125/(AN_HEAD_CIR1). HEAD CIRCUMFERENCE 1
MEASURED HEAD CIRCUMFERENCE
 PROGRAMMER INSTRUCTIONS: GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE HARD AND SOFT EDITS: IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED HEAD CIRCUMFERENCE BASED ON AGE AND GENDER, DISPLAY SOFT EDIT. IF MEASUREMENT IS < 0 OR > 70 CM, DISPLAY HARD EDIT.
AN130/(AN_HEAD_CIR2). HEAD CIRCUMFERENCE 2
MEASURED HEAD CIRCUMFERENCE
PROGRAMMER INSTRUCTIONS:

- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE HARD AND SOFT EDITS:
 - o IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED HEAD CIRCUMFERENCE BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.
 - **0** IF MEASUREMENT IS < 0 OR > 70 CM, DISPLAY HARD EDIT.
- IF VALID MEASURES PROVIDED FOR **AN_HEAD_CIR1** AND **AN_HEAD_CIR2**, CALCULATE THE DIFFERENCE BETWEEN **AN_HEAD_CIR1** AND **AN_HEAD_CIR2**:

- O IF AN_HEAD_CIR1 AND AN_HEAD_CIR2 DIFFER BY ≤ 0.3 CM, CALCULATE THE MEAN OF AN_HEAD_CIR1 AND AN_HEAD_CIR2, SAVE AS AN_HEAD_CIR_MEAN, AND GO TO AN_HUMERUS_LENGTH.
- O IF AN_HEAD_CIR1 AND AN_HEAD_CIR2 DIFFER BY > 0.3 CM, GO TO AN HEAD CIR3.
- IF AN HEAD CIR2 = -1:
 - 0 SAVE AN_HEAD_CIR1 AS AN_HEAD_CIR_MEAN.
 - O GO TO AN HEAD CIRC REFUS REASON.
- IF AN HEAD CIR2 = -2:
 - O SAVE AN HEAD CIR1 AS AN HEAD CIR MEAN.
 - o GO TO AN HUMERUS LENGTH.

AN135/(AN HEAD CIR3). HEAD CIRCUMFERENCE 3

MEASURED HEAD CIRCUMFERENCE	cm.
REFUSED	-1
COULD NOT OBTAIN	-2

- GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE HARD AND SOFT EDITS:
 - o IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED HEAD CIRCUMFERENCE BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.
 - O IF MEASUREMENT IS < 0 OR > 70 CM, DISPLAY HARD EDIT.
- IF VALID MEASURES PROVIDED FOR **AN_HEAD_CIR1**, **AN_HEAD_CIR2**, AND **AN_HEAD_CIR3**:
 - O IF THE TWO OUTSIDE MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE, THEN SAVE THE MIDDLE MEASURE AS AN_HEAD_CIR_MEAN.
 - O IF THE TWO OUTSIDE MEASUREMENTS ARE NOT EQUIDISTANT FROM THE MIDDLE MEASURE, CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS OF **AN_HEAD_CIR1**, **AN_HEAD_CIR2**, AND **AN_HEAD_CIR3** AND SAVE THE VALUE AS **AN_HEAD_CIR_MEAN**.
 - O GO TO AN_HUMERUS_LENGTH.
- IF AN HEAD CIR3 = -1:
 - O CALCULATE THE MEAN OF **AN_HEAD_CIR1** AND **AN_HEAD_CIR2**, AND SAVE AS **AN_HEAD_CIR_MEAN**.
 - o GO TO AN HEAD CIRC REFUS REASON.
- OTHERWISE, IF **AN HEAD CIR3** = -2:
 - O CALCULATE THE MEAN OF **AN_HEAD_CIR1** AND **AN_HEAD_CIR2**, AND SAVE AS **AN HEAD CIR MEAN**.
 - o GO TO AN HUMERUS LENGTH.
- FOR AN_HUMERUS_LENGTH BELOW, GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE HARD AND SOFT EDITS:
 - O IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED HUMERUS LENGTH BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.

0 IF MEASUREMENT IS <0 OR > 80 CM, DISPLAY HARD EDIT.

DATA COLLECTOR INSTRUCTION:

- SELECT ALL THAT APPLY.
- ENTER REASON FOR REFUSING THE CIRCUMFERENCE MEASURE.

CONCERN ABOUT DISCOMFORT	
CHILD TIRED/UNHAPPY	2
LANGUAGE ISSUE, SPANISH	3
LANGUAGE ISSUE, NON SPANISH	4
PARTICIPANT ILL/ EMERGENCY	5
NO TIME	
EQUIPMENT FAILURE	7
SAFETY EXCLUSION	8
PHYSICAL LIMITATION	9
TECHNICIAN ERROR	10
OTHER	5
NONE GIVEN	7

- IF RESPONSE CODE -7 SELECTED, DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSE CODES AND GO TO AN HUMERUS LENGTH.
- IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 SELECTED OR JUST ONE RESPONSE OF 1 THROUGH 10 SELECTED, GO TO AN HUMERUS LENGTH.
- IF RESPONSE CODE -5 SELECTED OR IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 AND -5 SELECTED, GO TO AN_HEAD_CIRC_REFUS_REASON_OTH.

SPECIFY:	
REFUSEDDON'T KNOW	
PROGRAMMER INSTRUCTION:LIMIT FREE TEXT TO 255 CHARACTERS.	
AN140/(AN_HUMERUS_LENGTH). HUMERUS LENGTH	
MEASURED HUMERUS LENGTHREFUSED(AN_HUM_LENGTH_REFUS_REASON) COULD NOT OBTAIN	1
AN145/(AN_MID_HUMERUS_LENGTH).	
PROGRAMMER INSTRUCTION:	

• CREATE DERIVED VARIABLE, **AN_MID_HUMERUS_LENGTH**, WHERE MID HUMERUS LENGTH = **AN_HUMERUS_LENGTH**/2 AND STORE AND DISPLAY ON SCREEN AS **AN_MID_HUMERUS_LENGTH**.

AN136/(AN_HUM_LENGTH_REFUS_REASON). ENTER REASON FOR REFUSING THE MID HUMERUS LENGTH MEASURE.

CONCERN ABOUT DISCOMFORT	
CHILD TIRED/UNHAPPY	.2
LANGUAGE ISSUE, SPANISH	.3
LANGUAGE ISSUE, NON SPANISH	.4
PARTICIPANT ILL/ EMERGENCY	.5
NO TIME	
EQUIPMENT FAILURE	.7
SAFETY EXCLUSION	.8
PHYSICAL LIMITATION	.9
TECHNICIAN ERROR	.10
OTHER	5
NONE GIVEN	7

PROGRAMMER INSTRUCTIONS:

- IF RESPONSE CODE -7 SELECTED, DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSE CODES AND GO TO AN_MEASUREMENT_UP_ARM_CIR_COM.
- IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 SELECTED OR JUST ONE RESPONSE OF 1 THROUGH 10 SELECTED, GO TO AN_HUMERUS_LENGTH.
- IF RESPONSE CODE -5 SELECTED OR IF ANY COMBINATION OF RESPONSE CODES 1 THROUGH 10 AND -5 SELECTED, GO TO AN HEAD CIRC REFUS REASON OTH.

AN137/(AN H	UM LENG	TH REFUS	REASON	OTH)
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SPECIFY:	
REFUSED	1
DON'T KNOW	2

PROGRAMMER INSTRUCTION:

GO TO AN_MEASUREMENT_UP_ARM_CIR_COM.

AN150/(AN_UP_ARM_CIR1). UPPER ARM CIRCUMFERENCE 1.

DATA COLLECTOR INSTRUCTION:

• TAKE UPPER ARM CIRCUMFERENCE AT THE HUMERUS MIDPOINT.

MEASURED UPPER ARM CIRCUMFERENCE	cm
REFUSED	
(AN_UP_ARM_CIRC_REFUS_REASON)	
COULD NOT OBTAIN	-2
(AN UP ARM CIRC REFUS REASON)	

PROGRAMMER INSTRUCTIONS:

• GO TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) TO DETERMINE HARD AND SOFT EDITS:

- o IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED UPPER ARM CIRCUMFERENCE BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.
- O IF MEASUREMENT IS <0 OR > 70 CM, DISPLAY HARD EDIT.

AN155/(AN_UP_ARM_CIR2). MID UPPER ARM CIRCUMFERENCE 2.

DATA COLLECTOR INSTRUCTION:

TAKE UPPER ARM CIRCUMFERENCE AT THE HUMERUS MIDPOINT.

MEASURED UPPER ARM CIRCUMFERENCE	cm
REFUSED	-1
COULD NOT OBTAIN	-2

PROGRAMMER INSTRUCTIONS:

- GO TO APPENDIX A TO DETERMINE HARD AND SOFT EDITS:
 - O IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED UPPER ARM CIRCUMFERENCE BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.
 - O IF MEASUREMENT IS < 0 OR > 70 CM, DISPLAY HARD EDIT.
- IF VALID MEASURES PROVIDED FOR AN_UP_ARM_CIR1 AND AN_UP_ARM_CIR2, CALCULATE THE DIFFERENCE BETWEEN AN_UP_ARM_CIR1 AND AN_UP_ARM_CIR2:
 - O IF AN_UP_ARM_CIR1 AND AN_UP_ARM_CIR2 DIFFER BY ≤ 0.5 CM, CALCULATE THE MEAN OF AN_UP_ARM_CIR1 AND AN_UP_ARM_CIR2, SAVE AS AN_UP_ARM_CIR_MEAN, AND THEN GO TO AN_ULNAR_LENGTH.
 - O IF AN_ UP_ARM_CIR1 AND AN_UP_ARM_CIR2 DIFFER BY > 0.5 CM, GO TO AN_ UP_ARM_CIR3.
- IF AN UP ARM CIR2 = -1:
 - o SAVE AN_UP_ARM_CIR1 AS AN_UP_ARM_MEAN
 - 0 GO TO AN_UP_ARM_CIRC_REFUS_REASON
- IF AN UP ARM CIR2 = -2:
 - O SAVE AN UP ARM CIR1 AS AN UP ARM MEAN
 - 0 GO TO AN_MEASUREMENT_UP_ARM_CIR_COM.

AN160/(AN_UP_ARM_CIR3). UPPER ARM CIRCUMFERENCE 3.

MEASURED UPPER ARM CIRCUMFERENCE	cm.
REFUSED1	
COULD NOT OBTAIN2	

COLLECTOR INSTRUCTION:

TAKE UPPER ARM CIRCUMFERENCE AT THE HUMERUS MIDPOINT.

PROGRAMMER INSTRUCTIONS:

GO TO APPENDIX A TO DETERMINE HARD AND SOFT EDITS:

- 0 IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED UPPER ARM CIRCUMFERENCE BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.
- **0** IF MEASUREMENT IS <0 OR > 70 CM, DISPLAY HARD EDIT.
- IF VALID MEASURES PROVIDED FOR AN_UP_ARM_CIR1 AND AN_UP_ARM CIR2:
 - O IF THE TWO OUTSIDE MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE, SAVE THE MIDDLE MEASURE AS AN_UP_ARM_CIR_MEAN.
 - O IF THE TWO OUTSIDE MEASUREMENTS ARE NOT EQUIDISTANT FROM THE MIDDLE MEASURE, CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS OF **AN_UP_ARM_CIR1**, **AN_UP_ARM_CIR2**, AND **AN_UP_ARM_CIR3** AND SAVE THE VALUE AS **AN_UP_ARM_CIR_MEAN**.
- IF AN UP ARM CIR3 = -1:
 - O CALCULATE THE MEAN OF **AN_UP_ARM_CIR1** AND **AN_UP_ARM_CIR2**, AND SAVE AS **AN_UP_ARM_CIR_MEAN**.
 - O GO TO AN UP ARM CIRC REFUS REASON.
- OTHERWISE, IF AN UP ARM CIR3 = -2:

CONCEDNIABOLIT DISCOMEODE

- O CALCULATE THE MEAN OF **AN_UP_ARM_CIR1** AND **AN_UP_ARM_CIR2**, AND SAVE AS **AN_UP_ARM_CIR_MEAN**.
- o GO TO AN_MEASUREMENT_UP_ARM_CIR_COM.

AN161/(AN_UP_ARM_CIRC_REFUS_REASON). ENTER REASON FOR REFUSING THE UPPER ARM CIRCUMFERENCE MEASURE.

	CONCERN ABOUT DISCOVIFORT
	(AN_MEASUREMENT_UP_ARM_CIR_COM)
	CHILD SICK2
	(AN_MEASUREMENT_UP_ARM_CIR_COM)
	CHILD TIRED/UNHAPPY3
	(AN_MEASUREMENT_UP_ARM_CIR_COM)
	NONE GIVEN7
	(AN_MEASUREMENT_UP_ARM_CIR_COM)
	OTHER5
AN162	/(AN_UP_ARM_CIRC_REFUS_REASON_OTH).
	SPECIFY:
	REFUSED1 DON'T KNOW2
	DON'T NOV
AN165	/(AN_MEASUREMENT_UP_ARM_CIR_COM).
DATA	COLLECTOR INSTRUCTION:
•	SELECT ALL THAT APPLY.
•	ENTER COMMENTS ABOUT UPPER ARM LENGTH AND CIRCUMFERENCE.
	NONE1
	MEASUREMENT TAKEN OVER THICK CLOTHING2

MEASUREMENT TAKEN ON LEFT ARM3 OTHER5
 PROGRAMMER INSTRUCTIONS: IF AN_UP_ARM_CIR1, AN_UP_ARM_CIR2, OR AN_UP_ARM_CIR3 = -2, DISPLAY "PLEASE ENTER THE REASON WHY YOU COULD NOT OBTAIN THE UPPER ARM CIRCUMFERENCE MEASURE." IF RESPONSE CODE 1 SELECTED, DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSE CODES, AND GO TO AN_ULNAR_LENGTH. IF ANY COMBINATION OF RESPONSE CODES 2 - 3 SELECTED, GO TO AN_ULNAR_LENGTH. IF RESPONSE CODE -5 SELECTED OR IF ANY COMBINATION OF RESPONSE CODES 2 - 3 AND -5 SELECTED, GO TO AN_MEASUREMENT_UP_ARM_COM_OTH.
AN170/(AN_MEASUREMENT_UP_ARM_CIR_COM_OTH). DATA COLLECTOR MEASUREMENT COMMENTS
SPECIFY
PROGRAMMER INSTRUCTION: • LIMIT FREE TEXT TO 255 CHARACTERS
AN175/(AN_ULNAR_LENGTH). ULNAR LENGTH
MEASURED ULNAR LENGTH
PROGRAMMER INSTRUCTIONS: • GO TO APPENDIX A TO DETERMINE HARD AND SOFT EDITS: • IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED HUMERUS LENGTH BASED ON AGE AND GENDER, DISPLAY SOFT EDIT. • IF WALID VALUE ENTERED, GO TO AN_MEASUREMENT_ULNAR_LENGTH_COM.
AN176/(AN_ULNAR_LENGTH_REFUS_REASON). ENTER REASON FOR REFUSING THE UPPER ARM CIRCUMFERENCE MEASURE.
CONCERN ABOUT DISCOMFORT

AN177/(AN_ULNAR_LENGTH_REFUS_REASON_OTH).
SPECIFY:
REFUSED1 DON'T KNOW2
AN180/(AN_MEASUREMENT_ ULNAR_ LENGTH_COM).
 DATA COLLECTOR INSTRUCTION: SELECT ALL THAT APPLY. ENTER COMMENTS ABOUT ULNAR LENGTH MEASUREMENT.
NONE
 PROGRAMMER INSTRUCTIONS: IF AN_ULNAR_LENGTH = -2, DISPLAY "PLEASE ENTER THE REASON YOU COULD NOT OBTAIN THE ULNAR LENGTH MEASURE." IF RESPONSE CODE 1 SELECTED, DO NOT ALLOW SELECTION OF ADDITIONAL RESPONSE CODES AND GO TO AN_TRICEPS_SKINFOLD1. IF ANY COMBINATION OF RESPONSE CODES 2 AND 3 SELECTED, GO TO AN_TRICEPS_SKINFOLD1. IF RESPONSE CODE -5 SELECTED OR IF ANY COMBINATION OF RESPONSE CODES 2, 3 AND -5 SELECTED, GO TO AN_MEASUREMENT_ULNAR_LENGTH_COM_OTH.
AN185/(AN_MEASUREMENT_ULNAR_LENGTH_COM_OTH). DATA COLLECTOR MEASUREMENT COMMENTS
SPECIFY
PROGRAMMER INSTRUCTION:LIMIT FREE TEXT TO 255 CHARACTERS.
AN190/(AN_TRICEPS_SKINFOLD1). TRICEPS SKINFOLD MEASUREMENT 1
MEASURED TRICEPS SKINFOLD cm. EXCEEDS CAPACITY6 (AN_SUBSCAP_SKINFOLD1) REFUSED1 (AN_SUBSCAP_SKINFOLD1) COULD NOT OBTAIN2 (AN_SUBSCAP_SKINFOLD1)
 PROGRAMMER INSTRUCTIONS: GO TO APPENDIX A TO DETERMINE HARD AND SOFT EDITS:
o IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED

TRICEPS SKINFOLD BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.

0 IF MEASUREMENT IS < 0 OR > 67 CM, DISPLAY HARD EDIT.

PM Child Anthropometry Instrument (EHPBHI), MDES 3.0 Spring 2012, V1.0

AN195/(AN_TRICEPS_SKINFOLD2). TRICEPS SKINFOLD MEASUREMENT 2

MEASURED TRICEPS SKINFOLD		cm.
REFUSED	-1	
COULD NOT OBTAIN		

PROGRAMMER INSTRUCTIONS:

- GO TO APPENDIX A TO DETERMINE HARD AND SOFT EDITS:
 - o IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED TRICEPS SKINFOLD BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.
 - O IF MEASUREMENT IS < 0 OR > 67 CM, DISPLAY HARD EDIT.
- IF VALID MEASURES PROVIDED FOR **AN_TRICEPS_SKINFOLD1** AND **AN_TRICEPS_SKINFOLD2**, CALCULATE THE DIFFERENCE BETWEEN **AN_TRICEPS_SKINFOLD1** AND **AN_TRICEPS_SKINFOLD2**:
 - O IF AN_TRICEPS_SKINFOLD1 AND AN_TRICEPS_SKINFOLD2 DIFFER BY ≤ 2.0 CM, CALCULATE THE MEAN OF AN_TRICEPS_SKINFOLD1 AND AN_TRICEPS_SKINFOLD2, SAVE AS AN_TRICEPS_SKINFOLD_MEAN, AND THEN GO TO AN SUBSCAP SKINFOLD1.
 - O IF AN_TRICEPS_SKINFOLD1 AND AN_TRICEPS_SKINFOLD2 DIFFER BY > 2.0 CM, GO TO AN_TRICEPS_SKINFOLD3.
- IF AN TRICEPS SKINFOLD2 = -1:
 - 0 SAVE AN TRICEPS SKINFOLD1 AS AN TRICEPS SKINFOLD MEAN.
 - o GO TO **AN_TRI_SKIN_REFUS_REASON**.
- IF AN TRICEPS SKINFOLD2 = -2:
 - O SAVE AN_TRICEPS_SKINFOLD1 AS AN_TRICEPS_SKINFOLD_MEAN.
 - o GO TO AN TRICEPS SKINFOLD3.

AN200/(AN_TRICEPS_SKINFOLD3). TRICEPS SKINFOLD MEASUREMENT 3

MEASURED TRICEPS SKINFOLD		 cm.
REFUSED	-1	
COULD NOT OBTAIN	-2	

- GO TO APPENDIX A TO DETERMINE HARD AND SOFT EDITS:
 - o IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED TRICEPS SKINFOLD BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.
 - O IF MEASUREMENT IS < 0 OR > 67 CM, DISPLAY HARD EDIT.
- IF VALID MEASURES PROVIDED FOR **AN_TRICEPS_SKINFOLD1**, **AN_TRICEPS_SKINFOLD2** AND **AN_TRICEPS_SKINFOLD3**:
 - O IF THE TWO OUTSIDE MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE, THEN SAVE THE MIDDLE MEASURE AS AN_TRICEPS_SKINFOLD_MEAN.
 - O IF THE TWO OUTSIDE MEASUREMENTS ARE NOT EQUIDISTANT FROM THE MIDDLE MEASURE, CALCULATE THE MEAN OF THE TWO CLOSEST MEASUREMENTS OF AN_TRICEPS_SKINFOLD1, AN_TRICEPS_SKINFOLD2,

		_	_	SKINFOLD LD_MEAN		AND	SAVE	THE	VALUE	AS
() GO TO	AN_SUI	BSCAP_	SKINFOLI	D1.					
• IF A	N_TRICE	PS_SKIN	FOLD3=	= -1:						
C	CALCU	JLATE	THE	MEAN	OF	= AN	TRICEP	S_SKIN	FOLD1	AND
	AN_TR	CEPS_	SKINFO	LD2, AND	SAV	E AS AN	_TRICEP	S_SKIN	IFOLD_ME	EAN.
				REFUS_RI						
		_		_SKINFOL						
C						_	_	_	FOLD1	
	_	_		,		E AS AN	_TRICEP	S_SKIN	IFOLD_ME	EAN.
C) GO TO	AN_SU	BSCAP_	SKINFOLI	D1.					
A N1201 // A N1	TDI CIVII	N DEELL	C DEAC	CAN ENT	-ED 1			FLICINIC	THE TOK	CD.
AN201/(AN	_TRI_SKII JFOLD ME			ON). ENI	EKI	KEASUN	FOR RE	FUSING	HEIRI	JEP
SKII	NEOLD IVIE	EASURE.	•							
CON	ICERN AF	SOUT DIS	SCOMEC	DRT			1			
	SUBSCA									
							2			
(AN_	SUBSCA	P_SKINI	FOLD1)							
CHIL	D TIRED	/UNHAPF	οΥΥ				3			
(AN_	SUBSCA	P_SKINI	FOLD1)							
NON	IE GIVEN.						7			
	SUBSCA						_			
ОТН	ER						5			
AN202/(AN	_TRI_SKI	N_REFU	S_REAS	ON_OTH)						
SPE	CIFY:									
REE	LISED						-1			
PROGRAM	MER INST	TRUCTIO	N:							
• LIMI	T FREE T	EXT TO	255 CHA	RACTERS	S.					
AN205/(AN	_SUBSCA	NP_SKIN	FOLD1).	SUBSCA	.PUL	AR SKIN	FOLD ME	EASURE	EMENT 1	
				SKINFOLD					cm.	
							DRUCRA	MMFRI	NSTRUCT	IONS

PROGRAMMER INSTRUCTIONS:

- GO TO APPENDIX A TO DETERMINE HARD AND SOFT EDITS:
 - o IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED SUBSCAPULAR SKINFOLD BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.

COULD NOT OBTAIN -2 (PROGRAMMER INSTRUCTIONS

FOLLOWING AN_SUBSCAP_SKINFOLD3)

FOLLOWING AN_SUBSCAP_SKINFOLD3)

IF MEASUREMENT IS < 0 OR > 67 CM, DISPLAY HARD EDIT.

AN210/(AN SUBSCAP SKINFOLD2). SUBSCAPULAR SKINFOLD MEASUREMENT 2

MEASURED SUBSCAPULAR SKINFOLD	cm.
REFUSED1	
COULD NOT OBTAIN2	

PROGRAMMER INSTRUCTIONS:

- GO TO APPENDIX A TO DETERMINE HARD AND SOFT EDITS:
 - o IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED SUBSCAPULAR SKINFOLD BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.
 - O IF MEASUREMENT IS < 0 OR > 67 CM, DISPLAY HARD EDIT.
- IF VALID MEASURES PROVIDED FOR AN_SUBSCAP_SKINFOLD1 AND AN_SUBSCAP_SKINFOLD2, CALCULATE THE DIFFERENCE BETWEEN AN_SUBSCAP_SKINFOLD1 AND AN_SUBSCAP_SKINFOLD2:
 - O IF AN_SUBSCAP_SKINFOLD1 AND AN_SUBSCAP_SKINFOLD2 DIFFER BY ≤ 2.0 CM, CALCULATE THE MEAN OF AN_SUBSCAP_SKINFOLD1 AND AN_SUBSCAP_SKINFOLD2, SAVE AS AN_SUBSCAP_SKINFOLD_MEAN, AND GO TO PROGRAMMER INSTRUCTIONS FOLLOWING AN_SUBSCAP_SKINFOLD3.
 - O IF AN_SUBSCAP_SKINFOLD1 AND AN_SUBSCAP_SKINFOLD2 DIFFER BY > 2.0 cm, GO TO AN_SUBSCAP_SKINFOLD3.
- IF AN_SUBSCAP_SKINFOLD2 = -1 OR -2, SAVE AN_SUBSCAP_SKINFOLD1 AS AN_SUBSCAP_SKINFOLD_MEAN AND GO TO PROGRAMMER INSTRUCTIONS FOLLOWING AN_SUBSCAP_SKINFOLD3.

AN215/(AN SUBSCAP SKINFOLD3). SUBSCAPULAR SKINFOLD MEASUREMENT 3

MEASURED SUBSCAPULAR SKINFOLD c	cm.
REFUSED1	
COULD NOT OBTAIN	

- GO TO APPENDIX A TO DETERMINE HARD AND SOFT EDITS:
 - O IF MEASUREMENT FALLS OUTSIDE MINIMUM OR MAXIMUM EXPECTED SUBSCAPULAR SKINFOLD BASED ON AGE AND GENDER, DISPLAY SOFT EDIT.
 - O IF MEASUREMENT IS < 0 OR > 67 CM, DISPLAY HARD EDIT.
- IF VALID MEASURES PROVIDED FOR **AN_SUBSCAP_SKINFOLD1**, **AN_SUBSCAP_SKINFOLD2**, AND **AN_SUBSCAP_SKINFOLD3**:
 - O IF THE TWO OUTSIDE MEASUREMENTS ARE EQUIDISTANT FROM THE MIDDLE MEASURE, THEN SAVE THE MIDDLE MEASURE AS AN_SUBSCAP_SKINFOLD_MEAN.
 - O IF THE TWO OUTSIDE 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_SUBSCAPS_SKINFOLD3 AND SAVE THE VALUE AS AN SUBSCAP SKINFOLD MEAN.

	0	GO TO AN_ME	ASUREM	IENT_SUE	B_SKIN	I_COM.		
• IF	AN_	SUBSCAP_SK	INFOLD3	= -1:				
	0	CALCULATE	THE	MEAN	OF	AN_SUBSCAF	_SKINFOLD1	AND
		AN_SUBSCAP	_SKINFO	LD2,		AND	SAVE	AS
		AN_SUBSCAP	_SKINFO	LD_MEAN	۷.			
	0	GO TO AN_SU	B_SKIN_	REFUS_R	EASO	N.		
• O	THEF	RWISE, IF AN_S	SUBSCAF	_SKINFO	LD3= -	-2:		
	0	CALCULATE	THE	MEAN	OF	AN_SUBSCAF	_SKINFOLD1	AND
		AN_SUBSCAP	_SKINFO	LD2,		AND	SAVE	AS
		AN_SUBSCAP	_SKINFO	LD_MEAN	٧.			
	0	GO TO AN_ME	ASUREM	IENT_SUE	3_SKIN	I_COM.		
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SU	UBSC	APULAR SKIN	FOLD ME	ASURE.				
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PROGRA	MME	R INSTRUCTION	ON:					

- LIMIT FREE TEXT TO 255 CHARACTERS.
- CREATE AN_CONVERTED_WEIGHT BY CONVERTING MEAN WEIGHT IN KILOGRAMS TO POUNDS. AN_CONVERTED_WEIGHT = [AN_WEIGHT_MEAS_MEAN X 2.2046]. SAVE AN_CONVERTED_WEIGHT AS AN CONVERTED WEIGHT.
- CREATE AN_CONVERTED_WEIGHT_LBS AND AN_CONVERTED_WEIGHT_OZ BY CONVERTING AVERAGE WEIGHT IN KILOGRAMS TO POUNDS AND OUNCES. WEIGHT IN POUNDS = [AN_WEIGHT_MEAS_MEAN X 2.2046]. ENTER WHOLE NUMBER IN AND SAVE AS AN_COVERTED_WEIGHT_LBS. MULTIPLE DECIMAL FRACTION BY 16 AND ROUND TO NEAREST OUNCE. ENTER VALUE IN AND SAVE AS AN CONVERTED WEIGHT OUNCE.
- CREATE AN_CONVERTED_RECUMB_LENGTH BY CONVERTING ADJUSTED RECUMBENT LENGTH IN CENTIMETERS TO INCHES. AN_CONVERTED_RECUMB_LENGTH = [AN_RECUMB_LENGTH_ADJUST X 0.39]. SAVE AN_CONVERTED_RECUMB_LENGTH AS AN_CONVERTED_RECUMB_LENGTH.

AN220/(AN_CONV_WEIGHT). WEIGHT IN POUNDS AND OUNCES.

PROGRAMMER INSTRUCTIONS:

- IF VALID MEASURE CALCULATED WHEN ANTHROPOMETRY INSTRUMENT, DISPLAY AN CONVERTED WEIGHT LBS
- AND **AN_CONVERTED_WEIGHT_OZ**.
- OTHERWISE, IF VALID MEASURE COULD NOT BE OBTAINED, DISPLAY "COULD NOT BE OBTAINED".

AN225/AN_CONV_RECUMBENT_LENGTH). RECUMBENT LENGTH IN INCHES.

PROGRAMMER INSTRUCTION:

- IF VALID MEASURE CALCULATED WHEN ANTHROPOMETRY MODULE ADMINISTERED. DISPLAY AN CONVERTED RECUMBENT LENGTH.
- OTHERWISE, IF VALID MEASURE COULD NOT BE OBTAINED, DISPLAY "COULD NOT BE OBTAINED".

AN230. Thank you for having {CHILD'S NAME/the child} complete these measures.

(TIME STAMP AN ET) PROGRAMMER INSTRUCTION:

INSERT DATE/TIME STAMP

APPENDIX A: ANTHROPOMETRY EDIT RANGES

W	A == ((= = = = =)	Constant	Soft	Soft edit		Hard edit		
Measure	Age (years)	Gender	Low	High	Low	High		
Standing Weight (kg)	< 1	М	5.4	12.1	0	200		
		F	4.8	11.8	0	200		
	1 - <2	M	8.7	16.5	0	200		
		F	8.2	15.5	0	200		
	2 - <3	M	10.5	18.3	0	200		
Decryphant Langth (and)	- 1	F	11.0	23.5	0	200		
Recumbent Length (cm)	< 1	M F	56.8 54.5	81.3 78.8	16 16	197.5 197.5		
	1 - <2	M	72.8	94.4	16	197.5		
	1-72	F	71.3	91.4	16	197.5		
	2 - <3	M	82.2	102.0	16	197.5		
		F	82.0	102.0	16	197.5		
Height Adjustment-Below waist	0 - 100	М	N/A	N/A	0	15.2		
		F	N/A	N/A	0	15.2		
Height Adjustment-Above waist	0 -100	М	N/A	N/A	0	15.2		
		F	N/A	N/A	0	15.2		
Femur Length (cm)	< 1	M			0	200		
		F			0	200		
	1 - <2	M			0	200		
	0 10	F	445	00.0	0	200		
	2 - <3	M F	14.5	23.0	0	200		
Thigh Circumference (cm)	< 1	M	15.2	23.3	0	200 200		
Thigh chedimerence (cm)	\1	F			0	200		
	1 - <2	M			0	200		
		F			0	200		
	2 - <3	М	23.1	34.0	0	200		
		F	23.8	36.1	0	200		
Waist Circumference (cm)	< 1	М			0	200		
		F			0	200		
	1 - <2	M			0	200		
		F			0	200		
	2 - <3	M	41.2	55.6	0	200		
Head Gineral Company	0.05	F	41.2	58.3	0	200		
Head Circumference (cm)	0 - 0.5	M F	38.8	48.8	0	70		
	0 - 100	M	37.3	47.6	0	70 70		
	0 - 100	F			0	70		
Humerus and Ulnar Length (cm)	< 1	M	10.0	16.8	0	80		
riamoras ana omar Eongar (cm)	` +	F	9.5	16.0	0	80		
	1 - <2	M	13.3	19.0	0	80		
		F	12.8	19.0	0	80		
	2 - <3	М	15.3	20.5	0	80		

Macaura	Ago (voors)	Condor	Soft	edit	Hard edit	
Measure	Age (years)	Gender	Low	High	Low	High
		F	15.1	20.9	0	80
Upper Arm Circumference	< 1	М	12.2	18.1	0	70
		F	11.7	18.0	0	70
	1 - <2	М	13.2	19.3	0	70
		F	13.1	19.1	0	70
	2 - <3	М	13.9	19.4	0	70
		F	13.7	20.1	0	70
Triceps Skinfold (mm)	< 1	М	6	16	0	67
		F	6	16	0	67
	1 - <2	М	5	15	0	67
		F	6	16	0	67
	2 - <3	М	5	14	0	67
		F	6	16	0	67
Subscapular Skinfolds (mm)	< 1	М	5	13	0	67
		F	5	13	0	67
	1 - <2	М	4	12	0	67
		F	4	13	0	67
	2 - <3	М	4	11	0	67
		F	4	15	0	67