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Physical Measures Child Blood Pressure Instrument

Event: 12- and 24- Month

Participant: Child

Domain: Physical Measures

Type of Document: Data Collection Instrument

Allowable Mode: In Person

Allowable Method: CAPI

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Version: 1.0

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Public reporting burden for this collection of information is estimated to average 10 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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Physical Measures Child Blood Pressure Instrument

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Tables

TABLE A-1. REFERRAL TABLE

Physical Measures Child Blood Pressure Instrument

(TIME_STAMP_BP_ST) PROGRAMMER INSTRUCTION:

• INSERT DATE/TIME STAMP

BP001. Thank you for agreeing to participate in the National Children's Study. I'd like to collect {C FNAME/the child}'s blood pressure information.

DATA COLLECTOR INSTRUCTIONS:

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

CONTINUE	1	(RESP_REL)
REFUSED	-1	

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 PARTICIPANT DATE OF BIRTH. SET AS CHILD_DOB.
- PRELOAD PARTICIPANT SEX; SET AS CHILD_SEX.

BP002/(BP_REF_REASON). I am sorry that you have chosen not to participate in this activity. Can you please tell me why?

CONCERN ABOUT DISCOMFORT	1 (BP_END_REF)
CHILD SICK	
CHILD TIRED/UNHAPPY	3
OTHER	5
REFUSED	1 (BP END REF)
DON'T KNOW	
	. – – ,

BP003/(BP_REF_REASON_OTH).

SPECIFY:	
REFUSED1	(BL2000)
DON'T KNOW2	(BL2000)

BP004/(BP END REF). That's fine. Thank you for your time.

PROGRAMMER INSTRUCTION:

• GO TO TIME_STAMP_BP_ET.

BP005/(RESP_RECHILD?	L). WHAT IS THE RELATIONSHIP OF THE PARENT OR CAREGIVER TO
FAT	THER
BP010/(RESP_RE	L_OTH).
SPECIFY_	
PROGRAMMER IN • LIMIT TEX	NSTRUCTION: T TO 255 CHARACTERS.
BP015/(BP_ARM_	USED). RECORD ARM USED TO MEASURE BLOOD PRESSURE.
LEFT REFUSED.	
PROVIDED BP_CUFF_ • OTHERWIS	NSTRUCTIONS: P_ARM_CIR COLLECTED PREVIOUSLY AND VALID RESPONSED, PRELOAD FROM ANTHROPOMETRY MODULE AND GO TO SIZE_CALC. SE, IF AN_UP_ARM_CIR NOT COLLECTED PREVIOUSLY OR VALIDE NOT PROVIDED, GO TO BP_HUMERUS_LTH.
BP020/(BP_HUME	ERUS_LTH). HUMERUS LENGTH.
. .	CM
	1 (BP_MEAS_REASON) DT OBTAIN2 (BP_MEAS_REASON)
• IF MEASUR	NSTRUCTION: REMENT IS <0 OR > 80 CM, DISPLAY HARD EDIT.
 UPPER AR 	OR INSTRUCTION: RM CIRCUMFERENCE NOT AVAILABLE FROM ANTHROPOMETRY EXAM JMERUS LENGTH NOW.

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

BP025/(BP_MID_HUMERUS_LENGTH).

PROGRAMMER INSTRUCTIONS:

- CREATE DERIVED VARIABLE **BP_MID_HUMERUS_LENGTH** WHERE **BP_MID_HUMERUS_LENGTH** = **BP_ HUMERUS_LENGTH**/2 AND STORE AS **BP_MID_HUMERUS_LENGTH**.
- DISPLAY **BP_MID_HUMERUS_LENGTH**.

BP030/(BP_UP_ARM_CIRC_MEAS). UPPER ARM CIRCUMFERENCE, MEASURED AT THE MIDPOINT OF THE HUMERUS.

. CM	
REFUSED	1 (BP_MEAS_REASON)
COULD NOT OBTAIN	2 (BP_MEAS_REASON)

DATA COLLECTOR INSTRUCTION:

TAKE UPPER ARM CIRCUMFERENCE AT THE HUMERUS MIDPOINT.

PROGRAMMER INSTRUCTION:

- DISPLAY MIDPOINT OF HUMERUS.
- REFER TO APPENDIX A (ANTHROPOMETRY EDIT RANGES) IN CHILD ANTHROPOMETRY INSTRUMENT:
 - 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.

BP035/(BP_CUFF_SIZE_CALC). DETERMINE APPROPRIATE BLOOD PRESSURE CUFF SIZE.

PROGRAMMER INSTRUCTIONS:

- IF **BP_UP_ARM_CIRC_MEAS** ≤ 8 CM, DISPLAY RECOMMENDED CUFF SIZE AS "COULD NOT OBTAIN", CODE **BP_CUFF_SIZE_USED** AS -2, AND GO TO **BP MEAS REASON**.
- IF BP UP ARM CIRC MEAS > 8 CM AND < 11.9 CM, BP CUFF SIZE = "INFANT"
- IF BP UP ARM CIRC MEAS > 12 CM AND < 16.9 CM, BP CUFF SIZE = "CHILD"
- IF **BP** _**UP_ARM_CIRC_MEAS** ≥ 17 CM AND ≤ 21.9 CM, **BP_CUFF_SIZE** = "SMALL ADULT"
- IF BP UP ARM CIRC MEAS ≥ 22 CM AND ≤ 29.9 CM, BP CUFF SIZE = "ADULT"
- IF BP_ UP_ARM_CIRC_MEAS ≥ 30 CM AND ≤ 37.9 CM, BP_CUFF_SIZE = "LARGE ADULT"
- IF BP_ UP_ARM_CIRC_MEAS ≥ 38 CM AND ≤ 50 CM, BP_CUFF_SIZE = "THIGH"
- IF BP_UP_ARM_CIRC_MEAS ≥ 50 CM, DISPLAY RECOMMENDED CUFF SIZE AS "COULD NOT OBTAIN", CODE BP_CUFF_SIZE_USED AS -2, AND GO TO BP MEAS REASON.
- DISPLAY RECOMMENDED CUFF SIZE.

BP040/(BP_CUFF_SIZE_USED). SELECT BLOOD PRESSURE CUFF SIZE USED FOR MEASUREMENTS.

INFANT	1
CHILD	2
SMALL ADULT	3
ADULT	4
LARGE ADULT	5
THIGH	6
COULD NOT OBTAIN	-2

DATA COLLECTOR INSTRUCTION:

SELECT CUFF SIZE USED.

PROGRAMMER INSTRUCTIONS:

- FOR (BP_SYS_MEAS1)(BP_DIA_MEAS1)(BP_PULSE_MEAS1), (BP_SYS_MEAS2)
 (BP_DIA_MEAS2)(BP_PULSE_MEAS2), AND (BP_SYS_MEAS3)(BP_DIA_MEAS3)
 (BP_PULSE_MEAS3) BELOW:
 - o IF THE DIFFERENCE BETWEEN THE SYSTOLIC AND DIASTOLIC IS LESS THAN 20, DISPLAY MESSAGE "THE DIFFERENCE BETWEEN THE SYSTOLIC BP AND DIASTOLIC BP IS LESS THAN 20 MMHG. ARE YOU SURE?"
 - REQUIRE SELECTION OF YES/NO TO THIS QUESTION.
 - IF YES IS SELECTED, ACCEPT THE VALUE AND GO TO NEXT FIELD.
 - IF NO SELECTED, DISPLAY MESSAGE "PLEASE ENTER A CORRECTED VALUE FOR SYSTOLIC BP AND/OR DIASTOLIC BP." ALLOW ENTRY IN SYSTOLIC AND/OR DIASTOLIC FIELDS.
 - o IF THE DIFFERENCE BETWEEN SYSTOLIC AND DIASTOLIC BP IS GREATER THAN 100, DISPLAY MESSAGE "THE DIFFERENCE BETWEEN THE SYSTOLIC BP AND DIASTOLIC BP IS GREATER THAN 100 MMHG. ARE YOU SURE?"
 - REQUIRE SELECTION OF YES/NO TO THIS QUESTION.
 - IF YES IS SELECTED, ACCEPT THE VALUE AND GO TO NEXT FIELD.
 - IF NO SELECTED, DISPLAY MESSAGE "PLEASE ENTER A CORRECTED VALUE FOR SYSTOLIC BP AND/OR DIASTOLIC BP." ALLOW ENTRY IN SYSTOLIC AND/OR DIASTOLIC FIELDS.
 - O IF SYSTOLIC OR DIASTOLIC BP IS > 290, DO NOT ACCEPT THIS VALUE. DISPLAY MESSAGE "THIS VALUE IS NOT WITHIN ACCEPTABLE LIMITS. PLEASE ENTER A VALUE WITHIN THE ACCEPTABLE RANGE (<290)." REQUIRE SELECTION OF "OK" TO CONFIRM MESSAGE WAS READ. ALLOW NEW ENTRY IN THAT FIELD.
 - O IF DIASTOLIC BP IS GREATER THAN THE SYSTOLIC BP, DISPLAY MESSAGE "DIASTOLIC BP MUST BE LESS THAN SYSTOLIC BP. PLEASE ENTER A VALUE WITHIN THE ACCEPTABLE RANGE." REQUIRE SELECTION OF "OK" TO CONFIRM MESSAGE WAS READ. ALLOW NEW ENTRY IN SYSTOLIC AND/OR DIASTOLIC FIELDS.

- O IF SYSTOLIC BP = -1 OR -2, DO NOT ACCEPT A VALUE FOR DIASTOLIC BP. DISPLAY MESSAGE "PLEASE ENTER A VALUE FOR SYSTOLIC BP." REQUIRE SELECTION OF "OK" TO CONFIRM MESSAGE WAS READ. ALLOW NEW ENTRY IN THAT FIELD.
- O IF SYSTOLIC BP IS ZERO, DO NOT ACCEPT THIS VALUE. DISPLAY MESSAGE "SYSTOLIC BP CANNOT EQUAL ZERO. PLEASE ENTER A VALUE WITHIN THE ACCEPTABLE RANGE OR SELECT COULD NOT OBTAIN." REQUIRE SELECTION OF "OK" TO CONFIRM MESSAGE WAS READ. ALLOW NEW ENTRY IN THAT FIELD.

BP045/(BP_SYS_MEAS1)(BP_DIA_MEAS1)(BP_PULSE_MEAS1). RECORD BLOOD PRESSURE 1 MEASUREMENTS.

SYSTOLIC: _ mmHg DIASTOLIC: _ mmHg PULSE: _ BPM
REFUSED1 (BP_MEAS_REASON) COULD NOT OBTAIN2 (BP_MEAS_REASON)
 DATA COLLECTOR INSTRUCTION: OBTAIN FIRST SET OF BLOOD PRESSURE MEASUREMENTS.
BP050/(BP_POSITION_MEAS1). RECORD THE CHILD'S POSITION FOR BLOOD PRESSURE MEASUREMENTS 1.
SEATED
BP055/(BP_STATE_MEAS1). RECORD THE CHILD'S STATE FOR BLOOD PRESSURE MEASUREMENTS 1.
AWAKE
BP060/(BP_SYS_MEAS2)(BP_DIA_MEAS2)(BP_PULSE_MEAS2). RECORD BLOOD PRESSURE 2 MEASUREMENTS.
SYSTOLIC: _ mmHg DIASTOLIC: _ mmHg PULSE: _ BPM
REFUSED1 (BP_MEAS_REASON) COULD NOT OBTAIN2 (BP_MEAS_REASON)

DATA COLLECTOR INSTRUCTION:OBTAIN SECOND SET OF BLOOD PRESSURE MEASUREMENTS.
BP065/(BP_POSITION_MEAS2). RECORD THE CHILD'S POSITION FOR BLOOD PRESSURE MEASUREMENTS 2.
SEATED
BP070/(BP_STATE_MEAS2). RECORD THE CHILD'S STATE FOR BLOOD PRESSURE MEASUREMENTS 2.
AWAKE
BP075/(BP_SYS_MEAS3)(BP_DIA_MEAS3)(BP_PULSE_MEAS3). RECORD BLOOD PRESSURE 3 MEASUREMENTS.
SYSTOLIC: _ mmHg DIASTOLIC: _ mmHg PULSE: _ BPM
REFUSED1 (BP_MEAS_REASON) COULD NOT OBTAIN2 (BP_MEAS_REASON)
 DATA COLLECTOR INSTRUCTION: OBTAIN THIRD SET OF BLOOD PRESSURE MEASUREMENTS.
BP080/(BP_POSITION_MEAS3). RECORD THE CHILD'S POSITION FOR BLOOD PRESSURE MEASUREMENTS 3.
SEATED
BP085/(BP_STATE_MEAS3). RECORD THE CHILD'S STATE FOR BLOOD PRESSURE MEASUREMENTS 3.
AWAKE

CRYING...... (BP_CALC)

BP090/(BP_MEAS_REASON). ENTER THE REASON YOU COULD NOT OBTAIN THE BLOOD PRESSURE MEASURES.

REFUSAL	. 1	(BP_CALC)
LANGUAGE ISSUE, SPANISH	. 2	(BP_CALC)
LANGUAGE ISSUE, NON SPANISH	. 3	(BP_CALC)
PARTICIPANT ILL/ EMERGENCY		
NO TIME	. 5	(BP_CALC)
EQUIPMENT FAILURE	. 6	(BP_CALC)
SAFETY EXCLUSION		
PHYSICAL LIMITATION	. 8	(BP_CALC)
PULSE NOT OBLITERATRED	. 9	(BP_CALC)
TECHNICIAN ERROR	.10	(BP_CALC)
OTHER	5	_

BP095/(BP_MEAS1_REASON_OTH)

SPECIFY	
REFUSED	-1
DON'T KNOW	

BP115/(BP_CALC). AVERAGE SYSTOLIC BLOOD PRESSURE, DIASTOLIC BLOOD PRESSURE, AND PULSE.

DATA COLLECTION INSTRUCTION:

- COMPLETE THE REPORT OF FINDINGS USING DISPLAYED INFORMATION.
- GIVE REPORT OF FINDINGS TO PARENT/CAREGIVER.

PROGRAMMER INSTRUCTIONS:

- CALCULATE THE AVERAGE PULSE RATE, SYSTOLIC AND DIASTOLIC BLOOD PRESSURE FOR THE REPORT OF FINDINGS AS FOLLOWS:
 - o IF 3 VALUES COLLECTED FOR MEASURE:
 - IGNORE THE FIRST SET OF VALUES AND CALCULATE THE AVERAGE FOR THE REMAINING 2 SETS OF MEASURES.
 - o IF 2 VALUES COLLECTED FOR MEASURE:
 - USE THE SECOND VALUE AS THE AVERAGE.
 - o OTHERWISE, IF 1 VALUE COLLECTED FOR MEASURE:
 - USE THAT VALUE AS THE AVERAGE.
 - O DO NOT USE VALUES OF "COULD NOT OBTAIN" OR "REFUSED" IN THE AVERAGES.
 - o IF THERE ARE NO VALUES WHICH ARE <u>NOT</u> "COULD NOT OBTAIN" OR "REFUSED" THE AVERAGE SHOULD BE SET TO "COULD NOT OBTAIN."
- SAVE SYSTOLIC BLOOD PRESSURE AVERAGE AS BP_SYS_AVG.
- SAVE DIASTOLIC BLOOD PRESSURE AVERAGE AS BP DIA AVG.
- SAVE PULSE AVERAGE AS BP PULSE AVG.
- IF VALID MEASURE CALCULATED, DISPLAY BP_SYS_MEAS_AVG, BP DIA MEAS AVG, AND BP PULSE MEAS AVG.
- IF VALID MEASURE COULD NOT BE OBTAINED, DISPLAY "COULD NOT BE OBTAINED" AND THEN GO TO BP125.

BP120/(BP_REFERRAL_LEVEL). BLOOD PRESSURE REFERRAL LEVEL.

PROGRAMMER INSTRUCTIONS:

- CREATE CATEGORY AND REFFERAL LEVEL BASED ON INSTRUCTIONS IN APPENDICES A THROUGH G:
 - o IF REFERRAL CATEGORY =1, DISPLAY, "IN THE REPORT OF FINDINGS CHECK BOX 'IS WITHIN NORMAL RANGE" AND 'NO ACTION IS NEEDED." PLEASE NOTE THAT THERE IS NO REFERRAL LETTER."
 - o IF REFERRAL CATEGORY = 2, DISPLAY, "IN THE REPORT OF FINDINGS CHECK BOX 'NORMAL BUT AT THE HIGH END OF NORMAL'AND 'DISCUSS THESE FINDINGS WITH A HEALTH CARE PROVIDER AT NEXT VISIT.' PLEASE NOTE THAT THERE IS NO REFERRAL LETTER."
 - o IF REFERRAL CATEGORY = 3, DISPLAY, "IN REPORT OF FINDINGS CHECK BOX 'HIGH' AND 'SEE A HEALTH CARE PROVIDER WITHIN 2 WEEKS." GIVE PARENT/CAREGIVER A REFERRAL LETTER."
 - o IF REFERRAL CATEGORY = 4, DISPLAY, "IN REPORT OF FINDINGS CHECK BOX 'VERY HIGH' AND 'SEE A HEALTH CARE PROVIDER IMMEDIATELY.' GIVE PARENT/CAREGIVER A REFERRAL LETTER."
 - o IF REFERRAL CATEGORY = N/A, DISPLAY "IN REPORT OF FINDINGS CHECK BOX "N/A" AND DO NOT CHECK A RECOMMENDED ACTION BOX. PLEASE NOTE THAT THERE IS NO REFERRAL LETTER."

BP125. Thank you for having {CHILD'S NAME/the child} complete these blood pressure measures.

(TIME_STAMP_BP_ET) PROGRAMMER INSTRUCTION:

INSERT DATE/TIME STAMP

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

IF CHILD SEX = 1:

- IF VALID RESPONSE PROVIDED FOR **AN_RECUMB_LENGTH_MEAN**, 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, AND TABLE A-1 (REFERRAL TABLE).
- OTHERWISE, IF VALID RESPONSE NOT PROVIDED FOR AN_RECUMB_LENGTH_MEAN, 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 OR 3:

- IF VALID RESPONSE PROVIDED FOR **AN_RECUMB_LENGTH_MEAN**, 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 AND TABLE A-1 (REFERRAL TABLE).
- OTHERWISE, IF VALID RESPONSE NOT PROVIDED FOR 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).

TABLE A-1. REFERRAL TABLE

Category	Statement Displayed
N/A	IN REPORT OF FINDINGS CHECK BOX "N/A" AND DO NOT CHECK A RECOMMENDED ACTION BOX. PLEASE NOTE THAT THERE IS NO REFERRAL LETTER.
Category 4	IN REPORT OF FINDINGS CHECK BOX "VERY HIGH" AND "SEE A HEALTH CARE PROVIDER IMMEDIATELY." GIVE PARENT/CAREGIVER A REFERRAL LETTER.
Category 3	IN REPORT OF FINDINGS CHECK BOX "HIGH" AND "SEE A HEALTH CARE PROVIDER WITHIN 2 WEEKS." GIVE PARENT/CAREGIVER A REFERRAL LETTER.
Category 2	IN THE REPORT OF FINDINGS CHECK BOX "NORMAL BUT AT THE HIGH END OF NORMAL"AND "DISCUSS THESE FINDINGS WITH A HEALTH CARE PROVIDER AT NEXT VISIT." PLEASE NOTE THAT THERE IS NO REFERRAL LETTER.
Category 1	IN THE REPORT OF FINDINGS CHECK BOX "IS WITHIN NORMAL RANGE" AND "NO ACTION IS NEEDED." PLEASE NOTE THAT THERE IS NO REFERRAL LETTER.

APPENDIX B: REFERALL LEVELS BASED ON AGE AND PERCENTILE LENGTH/HEIGHT, BOYS 1-2 YEARS

Boys - Age 1

Percentile of length = Less than 10	%
-------------------------------------	---

Systolic (mm Hg)	Diastolic (mm Hg)				
(mm Hg)	<mark><49</mark>	<mark>49-53</mark>	<mark>54-66</mark>	≥ <mark>67</mark>	
<mark>< 94</mark>	1	2	3	<mark>4</mark>	
<mark>94-97</mark>	2	2	<mark>3</mark>	4	
<mark>98-110</mark>	3	<mark>3</mark>	<mark>3</mark>	4	
≥ 111	4	4	<mark>4</mark>	4	

Percentile of length = 10-24 %

Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><50</mark>	50-53	<mark>54-67</mark>	≥ <mark>68</mark>
< 95		<mark>2</mark>	<mark>3</mark>	<mark>4</mark>
<mark>95-98</mark>	<mark>2</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>
<mark>99-111</mark>	<mark>3</mark>	<mark>3</mark>	<mark>3</mark>	<mark>4</mark>
≥ 112	4	4	4	4

Percentile of length = 25 - 49%

Systolic (mm Hg)	Diastolic (mm Hg)				
<mark>(mm Hg)</mark>	< <mark><51</mark>	<mark>51-54</mark>	<mark>55-68</mark>	≥ <mark>69</mark>	
< 97	<u>1</u>	2	3	4	
<mark>97-100</mark>	2	<mark>2</mark>	3	<mark>4</mark>	
101-113	3	3	<mark>3</mark>	4	
≥ 114	4	4	4	4	

Percentile of length = 50 - 74%

Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><52</mark>	<mark>52-55</mark>	<mark>56-69</mark>	≥ <mark>70</mark>
<mark><99</mark>		<mark>2</mark>	3	<mark>4</mark>
<mark>99-102</mark>	2	2	3	4
103-115	3	3	3	4
≥ 116	4	4	4	4

Percentile of length = 75 - 89%

Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><53</mark>	<mark>53-56</mark>	<mark>57-70</mark>	≥ <mark>71</mark>
< 100	<u>1</u>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>
100-103	<mark>2</mark>	2	<mark>3</mark>	<mark>4</mark>
104-117	<mark>3</mark>	3	3	<mark>4</mark>
≥ 118	4	4	<mark>4</mark>	4

Percentile of length = 90 - 94%

r creenine or length	<u> </u>				
Systolic (mm Hg)	Diastolic (mm Hg)				
(mm Hg)	<mark><53</mark>	<mark>53-57</mark>	<mark>58-71</mark>	≥ <mark>72</mark>	
< 102	<mark>1</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>	
102-105	<mark>2</mark>	2	3	<mark>4</mark>	
106-118	3	<mark>3</mark>	3	4	
≥ 119	4	4	4	4	

Percentile of length = 95% and higher

Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><54</mark>	<mark>54-57</mark>	<mark>58-71</mark>	≥ <mark>72</mark>
< 103	<u>1</u>	2	3	<mark>4</mark>
103-105	2	<mark>2</mark>	3	<mark>4</mark>
<mark>106-119</mark>	3	<mark>3</mark>	3	<mark>4</mark>
≥ 120	4	4	4	4

Boys - Age 2

Percentile of length = Less than 10 %

r crochine or length	ECOS CHAILED 70			
Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><54</mark>	<mark>54-58</mark>	<mark>59-71</mark>	≥ <mark>72</mark>
< 97		<mark>2</mark>	<mark>3</mark>	<mark>4</mark>
<mark>97-100</mark>	<mark>2</mark>	2	<mark>3</mark>	<mark>4</mark>
101-114	<mark>3</mark>	<mark>3</mark>	<mark>3</mark>	<mark>4</mark>
≥ 11 5	4	4	4	4

Percentile of length = 10-24 %

r crecitine or length	- 10-27 /u				
Systolic (mm Hg)	Diastolic (mm Hg)				
(mm Hg)	<55	<mark>55-58</mark>	<mark>59-72</mark>	≥ <mark>73</mark>	
<mark>< 99</mark>		<mark>2</mark>	<mark>3</mark>	<mark>4</mark>	
<mark>99-101</mark>	<mark>2</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>	
102-115	3	3	3	4	
≥ 116	4	4	4	4	

Percentile of length = 25 - 49%

Systolic (mm Hg)	Diastolic (mm Hg)				
(mm Hg)	<mark><56</mark>	<mark>56-69</mark>	<mark>60-73</mark>	≥ <mark>74</mark>	
< 100		2	<mark>3</mark>	4	
100-103	<mark>2</mark>	2	<mark>3</mark>	4	
104-118	<mark>3</mark>	<mark>3</mark>	<mark>3</mark>	<mark>4</mark>	
≥ 119	4	4	4	4	

Percentile of length = 50 - 74%

· crecitane et tengan				
Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><57</mark>	<mark>57-60</mark>	<mark>61-74</mark>	≥ <mark>75</mark>
< 102	1	2	3	4
102-105	<mark>2</mark>	<mark>2</mark>	3	4
106-118	<mark>3</mark>	<mark>3</mark>	3	4
≥ 119	4	<mark>4</mark>	4	4

Percentile of length = 75 - 89%

Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark>58</mark>	<mark>58-61</mark>	<mark>61-75</mark>	≥ <mark>76</mark>
< 104		2	<mark>3</mark>	<mark>4</mark>
<mark>104-107</mark>	2	2	<mark>3</mark>	<mark>4</mark>
108-120	3	3	<mark>3</mark>	<mark>4</mark>
≥ 121	4	4	4	4

Percentile of length = 90 - 94%

Systolic (mm Hg)	Diastolic (mm Hg)				
(mm Hg)	<mark><58</mark>	<mark>58-62</mark>	<mark>63-76</mark>	≥ <mark>77</mark>	
< 105		<mark>2</mark>	<mark>3</mark>	4	
<mark>105-108</mark>	2	2	<mark>3</mark>	4	
109-122	3	<mark>3</mark>	<mark>3</mark>	<mark>4</mark>	
≥ 123	4	<mark>4</mark>	<mark>4</mark>	4	

Percentile of length = 95% and higher

	OO70 and ingitor					
Systolic (mm Hg)	Diastolic (mm Hg)	Diastolic (mm Hg)				
(mm Hg)	<mark><59</mark>	<mark>59-62</mark>	<mark>63-76</mark>	≥ <mark>77</mark>		
< 106	<u>1</u>	2	<mark>3</mark>	4		
106-109	<mark>2</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>		
110-122	3	3	<mark>3</mark>	<mark>4</mark>		
≥ 123	4	4	4	4		

APPENDIX C: MALE LENGTH (AGE 11.5-23.5M) AND HEIGHT (AGE 24M+) PERCENTILES

	Length (A	ge 11.5 m - 2	2 <mark>3.5 m) or H</mark>	eight (Age 2	4 m +) Perc	entiles	
If age in							
months is							
greater	and less						
than or =	than	P10 - P24	P25 - P49	P50 - P74	P75 - P89	P90 - P94	P95 - >
<u>11.0</u>	<u>11.5</u>	N/A	N/A	N/A	N/A	N/A	N/A
11.5	12.5	<mark>71.38</mark>	<mark>73.02</mark>	<mark>74.92</mark>	<mark>76.92</mark>	78.81	<mark>79.99</mark>
12.5	13.5	<mark>72.50</mark>	<mark>74.18</mark>	76.12	<mark>78.15</mark>	<mark>80.07</mark>	<mark>81.25</mark>
13.5	<mark>14.5</mark>	<mark>73.57</mark>	<mark>75.28</mark>	<mark>77.26</mark>	<mark>79.33</mark>	<mark>81.27</mark>	<mark>82.46</mark>
14.5	<mark>15.5</mark>	<mark>74.59</mark>	<mark>76.35</mark>	<mark>78.37</mark>	<mark>80.46</mark>	<mark>82.42</mark>	<mark>83.63</mark>
15.5	16.5	<mark>75.58</mark>	<mark>77.37</mark>	<mark>79.43</mark>	<mark>81.56</mark>	83.54	<mark>84.75</mark>
<mark>16.5</mark>	<mark>17.5</mark>	<mark>76.52</mark>	<mark>78.36</mark>	<mark>80.45</mark>	82.61	84.61	<mark>85.84</mark>
<mark>17.5</mark>	<mark>18.5</mark>	<mark>77.44</mark>	<mark>79.31</mark>	<mark>81.44</mark>	<mark>83.63</mark>	<mark>85.65</mark>	<mark>86.89</mark>
<mark>18.5</mark>	<mark>19.5</mark>	<mark>78.32</mark>	<mark>80.23</mark>	<mark>82.41</mark>	<mark>84.63</mark>	<mark>86.67</mark>	<mark>87.91</mark>
<mark>19.5</mark>	<mark>20.5</mark>	<mark>79.18</mark>	<mark>81.13</mark>	<mark>83.34</mark>	<mark>85.59</mark>	<mark>87.65</mark>	<mark>88.90</mark>
<mark>20.5</mark>	<mark>21.5</mark>	<mark>80.01</mark>	<mark>82.00</mark>	<mark>84.25</mark>	<mark>86.53</mark>	<mark>88.60</mark>	<mark>89.86</mark>
<mark>21.5</mark>	<mark>22.5</mark>	<mark>80.82</mark>	<mark>82.85</mark>	<mark>85.13</mark>	<mark>87.44</mark>	<mark>89.54</mark>	<mark>90.80</mark>
<mark>22.5</mark>	<mark>23.5</mark>	<mark>81.61</mark>	<mark>83.68</mark>	<mark>86.00</mark>	<mark>88.33</mark>	<mark>90.44</mark>	<mark>91.72</mark>
<mark>23.5</mark>	<mark>24</mark>	<mark>82.37</mark>	<mark>84.48</mark>	<mark>86.84</mark>	<mark>89.20</mark>	<mark>91.33</mark>	<mark>92.61</mark>
<mark>24</mark>	<mark>24.5</mark>	<mark>81.99</mark>	<mark>84.10</mark>	<mark>86.45</mark>	<mark>88.81</mark>	<mark>90.93</mark>	<mark>92.20</mark>
24.5	<mark>25.5</mark>	<mark>82.36</mark>	<mark>84.49</mark>	<mark>86.86</mark>	<mark>89.23</mark>	91.36	92.63
<mark>25.5</mark>	<mark>26.5</mark>	<mark>83.11</mark>	<mark>85.26</mark>	<mark>87.65</mark>	90.06	92.23	93.53
<mark>26.5</mark>	<mark>27.5</mark>	<mark>83.85</mark>	<mark>86.01</mark>	<mark>88.42</mark>	<mark>90.86</mark>	93.08	94.41
<mark>27.5</mark>	<mark>28.5</mark>	<mark>84.57</mark>	<mark>86.74</mark>	<mark>89.18</mark>	<mark>91.65</mark>	93.90	95.26

APPENDIX D: REFERALL LEVELS FOR BLOOD PRESSURE, BOYS 1-2 YEARS

Boys - Age 1

Systolic (mm Hg)	Diastolic (mm Hg)					
(mm Hg)	<mark><49</mark>	<mark>49-53</mark>	<mark>54-66</mark>	≥ <mark>67</mark>		
<mark>< 94</mark>		<mark>2</mark>	<mark>3</mark>	<mark>4</mark>		
<mark>94-97</mark>	<mark>2</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>		
<mark>98-110</mark>	3	3	<mark>3</mark>	<mark>4</mark>		
≥ 111	4	4	4	4		

Boys - Age 2

Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><54</mark>	<mark>54-58</mark>	<mark>59-71</mark>	≥ <mark>72</mark>
< 97	<u>1</u>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>
<mark>97-100</mark>	<mark>2</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>
<mark>101-114</mark>	<mark>3</mark>	<mark>3</mark>	<mark>3</mark>	<mark>4</mark>
≥ 115	<mark>4</mark>	<mark>4</mark>	<mark>4</mark>	<mark>4</mark>

APPENDIX E: BLOOD PRESSURE REFERRAL LEVELS BASED ON AGE AND PERCENTILE LENGTH/HEIGHT, GIRLS 1-2 YEARS.

Child Blood Pressure Values Girls - Age 1

Percentile o	of length =	Less than 10 %
r ci cci illic d	,, iciiani —	LC33 HIGH TO /U

Systolic (mm Hg)	Diastolic (mm Hg)				
<mark>(mm Hg)</mark>	<52	<mark>52-55</mark>	56-69	≥ <mark>70</mark>	
<mark>< 97</mark>		<mark>2</mark>	<mark>3</mark>	4	
<mark>97-99</mark>	<mark>2</mark>	<mark>2</mark>	<mark>3</mark>	4	
100-113	3	3	3	4	
≥ 114	4	4	4	4	

Percentile of length = 10-24 %

Systolic (mm Hg)	Diastolic (mm Hg)				
<mark>(mm Hg)</mark>	<mark><53</mark>	<mark>53-56</mark>	<mark>57 - 69</mark>	≥ 70	
<mark>< 97</mark>	1	2	3	4	
<mark>97-100</mark>	<mark>2</mark>	<mark>2</mark>	3	4	
<mark>101-113</mark>	3	3	3	4	
≥ 114	4	4	4	4	

Percentile of length = 25 - 49%

Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><53</mark>	<mark>53-56</mark>	<mark>57-70</mark>	≥ <mark>71</mark>
<mark>< 98</mark>	1	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>
<mark>98-101</mark>	2	2	3	4
<mark>102-114</mark>	3	3	3	4
≥ 115	<mark>4</mark>	4	4	<mark>4</mark>

Percentile of length = 50 - 74%

Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><54</mark>	<mark>54-57</mark>	<mark>58-70</mark>	≥ <mark>71</mark>
< 100		2	<mark>3</mark>	<mark>4</mark>
100-103	<mark>2</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>
103-116	3	3	<mark>3</mark>	<mark>4</mark>
≥ 117	4	4	<mark>4</mark>	4

	•		•	•
Percentile of length				
Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><55</mark>	<mark>55-58</mark>	<mark>59-71</mark>	≥ <mark>72</mark>
< 101	1	2	3	<mark>4</mark>
101-104	2	2	3	<mark>4</mark>
<mark>105-117</mark>	3	3	3	4
≥ 118	4	4	4	4

Percentile of length = 90 - 94%

Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><55</mark>	<mark>55-58</mark>	<mark>59-72</mark>	≥ <mark>73</mark>
< 102	1	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>
102-105	2	<mark>2</mark>	3	4
106-118	3	<mark>3</mark>	3	4
≥ 119	4	<mark>4</mark>	4	<mark>4</mark>

Percentile of length = 95% and higher

Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><56</mark>	<mark>56-59</mark>	<mark>60-72</mark>	≥ <mark>73</mark>
< 103		<mark>2</mark>	<mark>3</mark>	<mark>4</mark>
103-106	<mark>2</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>
107-119	3	<mark>3</mark>	<mark>3</mark>	<mark>4</mark>
≥ 120	4	<mark>4</mark>	4	<mark>4</mark>

Girls - Age 2

Percentile of length = Less than 10 %

Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><57</mark>	<mark>57-60</mark>	<mark>61-74</mark>	≥ <mark>75</mark>
<mark>< 98</mark>	1	2	<mark>3</mark>	<mark>4</mark>
<mark>98-101</mark>	<mark>2</mark>	2	<mark>3</mark>	<mark>4</mark>
102-114	3	3	<mark>3</mark>	<mark>4</mark>
≥ 115	4	4	<mark>4</mark>	<mark>4</mark>

Percentile of length = 10-24 %

rerection of length	- 10-24 /0						
Systolic (mm Hg)	Diastolic (mm Hg)	Diastolic (mm Hg)					
(mm Hg)	<mark><58</mark>	<mark>58-61</mark>	<mark>62-75</mark>	≥ <mark>76</mark>			
<mark>< 99</mark>	<mark>1</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>			
<mark>99-102</mark>	<mark>2</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>			
103-115	3	3	3	<mark>4</mark>			
≥ 116	4	4	4	4			

Percentile of length = 25 - 49%

Crochaic of length = 20 4070						
Systolic (mm Hg)	Diastolic (mm Hg)					
(mm Hg)	<mark><58</mark>	<mark>58-61</mark>	<mark>62-75</mark>	≥ <mark>76</mark>		
< 100		2	<mark>3</mark>	4		
100-103	<mark>2</mark>	2	<mark>3</mark>	<mark>4</mark>		
104-116	<mark>3</mark>	<mark>3</mark>	<mark>3</mark>	<mark>4</mark>		
≥ 117	4	4	4	4		

Percentile of length = 50 - 74%

Fercentile of length = 30 - 74%							
Systolic (mm Hg)	Diastolic (mm Hg)	Diastolic (mm Hg)					
(mm Hg)	<mark><59</mark>	<mark>59-62</mark>	<mark>63-75</mark>	≥ <mark>75</mark>			
< 101	<mark>1</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>			
<u> 101 - 104</u>	<mark>2</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>			
105-117	<mark>3</mark>	<mark>3</mark>	<mark>3</mark>	<mark>4</mark>			
≥ 118	4	4	4	4			

Percentile of length = 75 - 89%

Systolic (mm Hg)	Diastolic (mm Hg)					
<mark>(mm Hg)</mark>	<mark><60</mark>	<mark>61-63</mark>	<mark>64-76</mark>	≥ 77		
< 103	<mark>1</mark>	2	<mark>3</mark>	<mark>4</mark>		
103-106	<mark>2</mark>	2	<mark>3</mark>	4		
107-119	3	3	<mark>3</mark>	<mark>4</mark>		
≥ 120	4	4	4	4		

Percentile of length = 90 - 94%

Systolic (mm Hg)	Diastolic (mm Hg)					
(mm Hg)	<mark><61</mark>	<mark>61-64</mark>	<mark>65-77</mark>	≥ <mark>78</mark>		
< 104	1	2	3	4		
104-107	2	2	3	<mark>4</mark>		
108-120	<mark>3</mark>	3	<mark>3</mark>	<mark>4</mark>		
≥ 120	4	4	4	4		

Percentile of length = 95% and higher

Systolic (mm Hg)	Diastolic (mm Hg)			
(mm Hg)	<mark><61</mark>	<mark>61-64</mark>	<mark>65-77</mark>	≥ <mark>78</mark>
< 105	<u>1</u>	<mark>2</mark>	3	<mark>4</mark>
105-108	2	2	3	<mark>4</mark>
109-121	3	3	3	4
≥ 122	4	4	4	4

APPENDIX F: FEMALE LENGTH (AGE 11.5-23.5M) AND HEIGHT (AGE 24M+) PERCENTILES

	Length (Age 11.5 m - 23.5 m) and Height (Age 24 m +) Percentiles						
If age in months is greater than	and less			y , y			
or =	than	P10 - P24	P25 - P49	P50 - P74	P75 - P89	P90 - P94	P95 - >
11.0	11.5	N/A	N/A	N/A	N/A	N/A	N/A
11.5	<mark>12.5</mark>	69.45	71.23	73.19	<mark>75.11</mark>	76.82	<mark>77.84</mark>
<mark>12.5</mark>	<mark>13.5</mark>	<mark>70.59</mark>	<mark>72.41</mark>	<mark>74.40</mark>	<mark>76.36</mark>	<mark>78.10</mark>	79.14
<mark>13.5</mark>	<mark>14.5</mark>	<mark>71.69</mark>	<mark>73.53</mark>	<mark>75.56</mark>	<mark>77.56</mark>	<mark>79.33</mark>	80.39
<mark>14.5</mark>	<mark>15.5</mark>	<mark>72.74</mark>	<mark>74.62</mark>	<mark>76.68</mark>	<mark>78.71</mark>	<mark>80.52</mark>	<mark>81.59</mark>
<mark>15.5</mark>	<mark>16.5</mark>	<mark>73.76</mark>	<mark>75.66</mark>	<mark>77.76</mark>	<mark>79.83</mark>	<mark>81.67</mark>	<mark>82.76</mark>
16.5	<mark>17.5</mark>	<mark>74.74</mark>	<mark>76.68</mark>	<mark>78.80</mark>	<mark>80.91</mark>	82.78	<mark>83.90</mark>
17.5	18.5	<mark>75.69</mark>	<mark>77.66</mark>	<mark>79.81</mark>	<mark>81.95</mark>	<mark>83.86</mark>	<mark>85.00</mark>
18.5	19.5	<mark>76.62</mark>	78.61	<mark>80.80</mark>	<mark>82.97</mark>	<mark>84.91</mark>	<mark>86.07</mark>
19.5	<mark>20.5</mark>	77.52	<mark>79.53</mark>	<mark>81.76</mark>	<mark>83.96</mark>	<mark>85.94</mark>	<mark>87.11</mark>
20.5	<mark>21.5</mark>	78.39	<mark>80.43</mark>	<mark>82.69</mark>	<mark>84.93</mark>	<mark>86.93</mark>	<mark>88.13</mark>
21.5	<mark>22.5</mark>	<mark>79.24</mark>	<mark>81.31</mark>	<mark>83.60</mark>	<mark>85.87</mark>	<mark>87.91</mark>	89.12
22.5	<mark>23.5</mark>	<mark>80.07</mark>	<mark>82.17</mark>	<mark>84.48</mark>	<mark>86.79</mark>	<mark>88.86</mark>	90.10
23.5	24	80.88	83.00	<mark>85.35</mark>	<mark>87.69</mark>	89.79	<mark>91.05</mark>
24	<mark>24.5</mark>	<mark>80.52</mark>	<mark>82.64</mark>	<mark>84.98</mark>	<mark>87.31</mark>	<mark>89.41</mark>	90.66
<mark>24.5</mark>	<mark>25.5</mark>	80.92	<mark>83.04</mark>	<mark>85.40</mark>	<mark>87.75</mark>	<mark>89.86</mark>	91.13
25.5	<mark>26.5</mark>	<mark>81.74</mark>	<mark>83.89</mark>	<mark>86.29</mark>	<mark>88.68</mark>	<mark>90.84</mark>	92.12
<mark>26.5</mark>	<mark>27.5</mark>	<mark>82.54</mark>	<mark>84.73</mark>	<mark>87.16</mark>	<mark>89.59</mark>	<mark>91.77</mark>	93.08
<mark>27.5</mark>	<mark>28.5</mark>	<mark>83.32</mark>	<mark>85.53</mark>	<mark>88.00</mark>	<mark>90.46</mark>	<mark>92.68</mark>	<mark>94.01</mark>

APPENDIX G: REFERRAL LEVELS FOR BLOOD PRESSURE, GIRLS 1-2 YEARS

Girls - Age 1

Systolic (mm Hg)	Diastolic (mm Hg)					
(mm Hg)	<mark><52</mark>	<mark>52-55</mark>	<mark>56-69</mark>	≥ 70		
<mark>< 97</mark>	1	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>		
<mark>97-99</mark>	<mark>2</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>		
100-113	<mark>3</mark>	<mark>3</mark>	<mark>3</mark>	<mark>4</mark>		
≥ 114	4	4	<mark>4</mark>	4		

Girls - Age 2

Systolic (mm Hg)	Diastolic (mm Hg)	Diastolic (mm Hg)					
(mm Hg)	< <mark><57</mark>	<mark>57-60</mark>	<mark>61-74</mark>	≥ <mark>75</mark>			
< 98	<u>1</u>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>			
<mark>98-101</mark>	<mark>2</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>			
<mark>102-114</mark>	<mark>3</mark>	3	<mark>3</mark>	<mark>4</mark>			
≥ 115	4	4	<mark>4</mark>	4			