

### Wave IV Section 27: Biospecimen Participation

Number of observations: 15,701

<b>H4CMONTH</b>		float	Biospecimen collection date- month
Frequency	Percent	Value	Label
541	3.4%	1	January
2075	13.2%	2	February
2476	15.8%	3	March
2454	15.6%	4	April
2114	13.5%	5	May
1519	9.7%	6	June
1133	7.2%	7	July
1064	6.8%	8	August
820	5.2%	9	September
641	4.1%	10	October
487	3.1%	11	November
377	2.4%	12	December

<b>H4CDAY</b>		float	Biospecimen collection date- day NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
529	3.4%	1	1
552	3.5%	2	2
488	3.1%	3	3
455	2.9%	4	4
564	3.6%	5	5
10834	69.0%	6-26	NOTE: Range of values omitted from display
486	3.1%	27	27

527	3.4%	28	28
572	3.6%	29	29
420	2.7%	30	30
274	1.7%	31	31

<b>H4CYEAR</b>		float	Biospecimen collection date- year
Frequency	Percent	Value	Label
193	1.2%	2007	2007
15372	97.9%	2008	2008
136	0.9%	2009	2009

#### Blood pressure and pulse measurements

*If prison protocol forbid blood pressure measurements, skip to anthropomorphic measurements*

<b>H4ARM</b>		float	Which arm for blood pressure measurement
Frequency	Percent	Value	Label
12368	78.77%	1	right
2927	18.64%	2	left
179	1.14%	6	refused
10	0.06%	7	legitimate skip
4	0.03%	9	invalid data
213	1.36%	.	no data

<b>H4CUFF</b>		float	Cuff size*
Frequency	Percent	Value	Label
9531	60.70%	1	adult
5550	35.35%	2	large adult
198	1.26%	3	large adult, but exceeds large adult cuff
179	1.14%	6	refused

10	0.06%	7	legitimate skip
20	0.13%	9	invalid data
213	1.36%	.	no data

<b>H4CUFFLG</b>		float	Arm circumference measured 12-12.75 inches in pretest*
Frequency	Percent	Value	Label
15663	99.8%	0	no
38	0.2%	1	yes

<b>H4SBP</b>		float	Systolic blood pressure* NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.01%	74	74 mmHg
1	0.01%	77	77 mmHg
1	0.01%	84.5	84.5 mmHg
1	0.01%	85	85 mmHg
1	0.01%	86	86 mmHg
15159	96.53%	86.5-214	NOTE: Range of values omitted from display
1	0.01%	215	215 mmHg
1	0.01%	222.5	222.5 mmHg
179	1.14%	996	refused
10	0.06%	997	legitimate skip
134	0.85%	999	invalid data
212	1.35%	.	no data

<b>H4DBP</b>		float	Diastolic blood pressure* NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.01%	30	30 mmHg

1	0.01%	31	31 mmHg
1	0.01%	45.5	45.5 mmHg
1	0.01%	48	48 mmHg
3	0.02%	49	49 mmHg
15157	96.52%	49.5-143.5	NOTE: Range of values omitted from display
1	0.01%	145	145 mmHg
1	0.01%	147	147 mmHg
179	1.14%	996	refused
10	0.06%	997	legitimate skip
134	0.85%	999	invalid data
212	1.35%	.	no data

<b>H4BPCLS</b>		float	Blood pressure classification
Frequency	Percent	Value	Label
5157	32.85%	1	normal: systolic <120, diastolic <80
7181	45.74%	2	prehypertension: systolic 120-139 or diastolic 80-89
2309	14.71%	3	hypertension I: systolic 140-159 or diastolic 90-99
519	3.31%	4	hypertension II: systolic 160+ or diastolic 100+
179	1.14%	6	refused
10	0.06%	7	legitimate skip
134	0.85%	9	invalid data
212	1.35%	.	no data

<b>H4BPFLG</b>		float	Number of blood pressures used to create single variable*
Frequency	Percent	Value	Label
14994	95.5%	1	measures 2 & 3
16	0.1%	2	measure 3 only
94	0.6%	3	measure 2 only

62	0.39%	4	measure 1 only
323	2.06%	5	no measures
212	1.35%	.	no data

<b>H4PR</b>		float	Pulse rate* NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.01%	40	40 bpm
1	0.01%	41	41 bpm
3	0.02%	42	42 bpm
2	0.01%	42.5	42.5 bpm
3	0.02%	43	43 bpm
15071	95.99%	43.5-196	NOTE: Range of values omitted from display
5	0.03%	887	less than 40 bpm
80	0.51%	888	greater than 200 bpm
179	1.14%	996	refused
10	0.06%	997	legitimate skip
134	0.85%	999	invalid data
212	1.35%	.	no data

<b>H4PP</b>		float	Pulse pressure* NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.01%	11	11 mmHg
1	0.01%	13	13 mmHg
1	0.01%	15	15 mmHg
1	0.01%	15.5	15.5 mmHg
3	0.02%	16	16 mmHg
15158	96.53%	17-91.5	NOTE: Range of values omitted from display

1	0.01%	94	94 mmHg
179	1.14%	996	refused
10	0.06%	997	legitimate skip
134	0.85%	999	invalid data
212	1.35%	.	no data

<b>H4MAP</b>		float	Mean arterial pressure* NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.01%	46.3	46.3 mmHg
1	0.01%	60.3	60.3 mmHg
1	0.01%	60.7	60.7 mmHg
1	0.01%	61.8	61.8 mmHg
1	0.01%	63	63 mmHg
15159	96.53%	63.8-163.2	NOTE: Range of values omitted from display
1	0.01%	167.3	167.3 mmHg
1	0.01%	169.7	169.7 mmHg
179	1.14%	996	refused
10	0.06%	997	legitimate skip
134	0.85%	999	invalid data
212	1.35%	.	no data

#### Anthropomorphic measurements

*If prison protocol did not allow anthropomorphic measurements, skip to next section*

<b>H4HGT</b>		float	Measured height (cm)* NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
4	0.0%	122	122 cm
2	0.0%	122.5	122.5 cm

5	0.0%	123	123 cm
5	0.0%	123.5	123.5 cm
5	0.0%	124	124 cm
15543	99.0%	124.5-203	NOTE: Range of values omitted from display
1	0.0%	204	204 cm
1	0.0%	226	226 cm
120	0.8%	996	refused
8	0.1%	997	legitimate skip
7	0.0%	999	invalid data

<b>H4WGT</b>		float	Measured weight (kg)* NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
2	0.0%	36	36 kg
1	0.0%	36.2	36.2 kg
1	0.0%	36.7	36.7 kg
1	0.0%	37.6	37.6 kg
1	0.0%	37.7	37.7 kg
15450	98.4%	38.3-200.8	NOTE: Range of values omitted from display
20	0.1%	888	over scale limit
31	0.2%	889	weight inconsistent with height, waist and sex
137	0.9%	996	refused
8	0.1%	997	legitimate skip
49	0.3%	999	invalid data

<b>H4WTLBS</b>		float	Flag indicating weight was incorrectly measured in lbs and was converted to kg*
Frequency	Percent	Value	Label
15637	99.6%	0	no

64	0.4%	1	yes
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<b>H4BMI</b>		float	Body mass index NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
2	0.0%	14.4	14.4
2	0.0%	14.7	14.7
4	0.0%	15.4	15.4
1	0.0%	15.5	15.5
1	0.0%	15.7	15.7
15441	98.3%	15.9-97.4	NOTE: Range of values omitted from display
20	0.1%	888	over limit
31	0.2%	889	weight inconsistent with height, waist and sex
139	0.9%	996	refused
8	0.1%	997	legitimate skip
52	0.3%	999	invalid data

<b>H4BMICLS</b>		float	Body mass index classification
Frequency	Percent	Value	Label
214	1.4%	1	underweight: <18.5
4869	31.0%	2	normal 18.5-<25
4654	29.6%	3	overweight: 25-<30
2854	18.2%	4	obese I: 30-<35
1457	9.3%	5	obese II: 35-<40
1403	8.9%	6	obese III: 40+
20	0.1%	88	over limit
31	0.2%	89	weight inconsistent with height, waist and sex
139	0.9%	96	refused



8	0.1%	97	legitimate skip
52	0.3%	99	invalid data

H4WAIST		float	Measured waist (cm)* NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
6	0.0%	50	50 cm
3	0.0%	52	52 cm
1	0.0%	53	53 cm
1	0.0%	54	54 cm
1	0.0%	55	55 cm
15533	98.9%	56.2-195	NOTE: Range of values omitted from display
2	0.0%	197	197 cm
1	0.0%	198	198 cm
135	0.9%	996	refused
8	0.1%	997	legitimate skip
10	0.1%	999	invalid data

#### **\*H4CUFF, H4CUFFLG**

In both the pretest and main studies, arm circumferences were measured to determine appropriate cuff size. For the pretest, the measured arm circumference was entered and converted to a cuff size by the CAI program, whereas, the cuff size (adult, large adult, etc.) was entered directly for main study respondents. For the combined data file, pretest cuff size values in H4CUFF have been recoded based on the following study protocol.

Adult: < 12 in

Large adult: 12-16 in

Exceeds large adult cuff: > 16 in

Note that main study criteria differ as follows:

Adult: < 13 in

Large adult: 13-16 in

Exceeds large adult cuff: > 16 in

Flag variable H4CUFFLG was created to flag the pretest cases with arm circumference between 12 and 12.75 inches who would have used Adult rather than Large Adult cuff had they been in the main study.

#### **\*H4SBP, H4DBP, H4BPFLG**

Single systolic and diastolic measures were constructed as the average of measures 2 and 3. When one of the second and third measures was missing, the other single measure was used. In the cases when both measures 2 and 3 were missing, the first measure was used.

To indicate the number of measures used in constructed blood pressure variables, the variable H4BPFLG was created.

**\*H4PR**

A single pulse rate measure was constructed as the average of measures 2 and 3. When one of the second and third measures was missing, the other single measure was used. In the cases when both measures 2 and 3 were missing, the first measure was used.

**\*H4PP**

The single pulse pressure measure was constructed as the average of the difference between systolic and diastolic blood pressures using measures 2 and 3. When one of the second and third measures was missing, the difference between systolic and diastolic of the other single measure was used. In the cases when both measures 2 and 3 were missing, the difference between the first systolic and diastolic blood pressures was used.

**\*H4MAP**

The mean arterial pressure was constructed as the weighted average of systolic and diastolic measures 2 and 3. When one of the second and third measures was missing, the other single measure was used. In the cases when both measures 2 and 3 were missing, the first measure was used.

**\*H4HGT**

Heights were measured in feet, whole and partial inches in the pretest and have been converted to centimeters to be comparable to the main study measurements.

**\*H4WGT, H4WTLBS**

Weights were measured in pounds in the pretest and have been converted to kilograms in this data file to be comparable to the main study measurements. Measured weights were compared to self reported weights and outliers were investigated. Waist, height, and sex data were used to compare and assess data quality. There are 64 cases among the outliers in the main study where the field interviewer measured weight in pounds but entered it as kilograms. H4WGT has been re-coded for these 64 cases by dividing it by 2.2 and the variable H4WTLBS created to flag the recodes. During this cleaning process some cases were also discovered that had measured weights that were inconsistent with sex, self-reported weight, waist, and height measures and were assigned the code 889.

**\*H4WAIST**

Waists were measured in whole and partial inches in the pretest and were converted to centimeters.