

## Wave V Anthropometrics

### Title

Wave V Anthropometrics

### Abstract

This file contains anthropometric variables constructed from the measurements taken at the Wave V home exam. The measurements include arm circumference, height, weight, and waist circumference. The file also contains BMI, as well as classification variables for BMI and waist circumference.

Variables: 13

Observations: 5,381

### Variables

#### Wave V Anthropometrics

- [H5ARM - Q023 WHICH ARM IS MEASURED \(1=R,2=L\) -W5](#)
- [H5ARMCIR - MEASURED ARM CIRCUMFERENCE \(CM\) -W5](#)
- [H5ARMINS - FLAG: ARM CONVERTED INCHES TO CMs -W5](#)
- [H5HGT - MEASURED HEIGHT \(CM\) -W5](#)
- [H5HGTINS - FLAG: HEIGHT CONVERTED INCHES TO CMs -W5](#)
- [H5WGT - MEASURED WEIGHT \(KG\) -W5](#)
- [H5WGTLBS - FLAG: WEIGHT CONVERTED LBs TO KGs -W5](#)
- [H5BMI - BMI \(KG/M2\) -W5](#)
- [H5BMICLS - CLASSIFICATION OF BMI \(NIH\) -W5](#)
- [H5WAIST - MEASURED WAIST CIRCUMFERENCE \(CM\) -W5](#)
- [H5WSTINS - FLAG: WAIST CONVERTED INCHES TO CMs -W5](#)
- [H5WSTCLS - CLASSIFICATION OF WAIST CIRCUM \(NIH\) -W5](#)

#### H5ARM - Q023 WHICH ARM IS MEASURED (1=R,2=L) -W5

Type	Code
Measurement Unit	Numeric
H5ARM	Use right arm unless instructed otherwise Q023. EXAMINER: Which arm is measured?
1	right
2	left

#### H5ARMCIR - MEASURED ARM CIRCUMFERENCE (CM) -W5

Type	Numeric (Double)
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H5ARMCIR	Q025a. EXAMINER: Enter arm circumference to nearest 0.5 cm or inch. [Note: All measurements in inches were converted to centimeters.]
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#### H5ARMINS - FLAG: ARM CONVERTED INCHES TO CMs -W5

Type	Code
Measurement Unit	Numeric
H5ARMINS	FLAG indicating arm was measured in inches and was converted to centimeters.
0	no
1	yes

#### H5HGT - MEASURED HEIGHT (CM) -W5

Type	Numeric (Double)
H5HGT	Q049a. EXAMINER: Record height to the nearest 0.5 cm or inch. [Note: All measurements in inches were converted to centimeters.]

#### H5HGTINS - FLAG: HEIGHT CONVERTED INCHES TO CMs -W5

Type	Code
Measurement Unit	Numeric
H5HGTINS	FLAG indicating height was measured in inches and was converted to centimeters.
0	no
1	yes

#### H5WGT - MEASURED WEIGHT (KG) -W5

Type	Numeric (Double)
H5WGT	Q061a. EXAMINER: Enter weight to the nearest 0.1 kg or lb. [Note: All measurements in pounds were converted to kilograms.]

#### H5WGTLBS - FLAG: WEIGHT CONVERTED LBs TO KGs -W5

Type	Code
Measurement Unit	Numeric
H5WGTLBS	FLAG indicating weight was measured in pounds and was converted to kilograms.
0	no
1	yes

 H5BMI - BMI (KG/M2) -W5

Type	Numeric (Double)
H5BMI	Body Mass Index (kg/m2)

 H5BMICLS - CLASSIFICATION OF BMI (NIH) -W5

Type	Code
Measurement Unit	Numeric
H5BMICLS	Body Mass Index classification according to National Institutes of Health Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults
1	underweight: BMI is < 18.5
2	normal: BMI is 18.5 - 24.9
3	overweight: BMI is 25 - 29.9
4	obesity stage I: BMI is 30 - 34.9
5	obesity stage II: BMI is 35 - 39.9
6	obesity stage III: BMI is >= 40

 H5WAIST - MEASURED WAIST CIRCUMFERENCE (CM) -W5

Type	Numeric (Double)
H5WAIST	Q065a. EXAMINER: Enter waist circumference to the nearest 0.5 cm or inch. [Note: All measurements in inches were converted to centimeters.]

 H5WSTINS - FLAG: WAIST CONVERTED INCHES TO CMs -W5

Type	Code
Measurement Unit	Numeric
H5WSTINS	FLAG indicating waist was measured in inches and was converted to centimeters.
0	no
1	yes


 H5WSTCLS - CLASSIFICATION OF WAIST CIRCUM (NIH) -W5

Type	Code
Measurement Unit	Numeric
H5WSTCLS	Waist circumference classification according to National Institutes of Health Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults


1	low risk: females <= 88 cm; males <= 102 cm
2	high risk: females > 88 cm; males > 102 cm

## Logical Products


### Data Layouts

 Wave V Anthropometrics
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#### Wave V Anthropometrics

 H5ARM - Q023 WHICH ARM IS MEASURED (1=R,2=L) -W5
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Type	Code
Measurement Unit	Numeric
H5ARM	Use right arm unless instructed otherwise Q023. EXAMINER: Which arm is measured?
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2	left

 H5ARMCIR - MEASURED ARM CIRCUMFERENCE (CM) -W5
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Type	Numeric (Double)
H5ARMCIR	Q025a. EXAMINER: Enter arm circumference to nearest 0.5 cm or inch. [Note: All measurements in inches were converted to centimeters.]

 H5ARMINS - FLAG: ARM CONVERTED INCHES TO CMs -W5
--

Type	Code
Measurement Unit	Numeric
H5ARMINS	FLAG indicating arm was measured in inches and was converted to centimeters.
0	no
1	yes

 H5HGT - MEASURED HEIGHT (CM) -W5
--

Type	Numeric (Double)
H5HGT	Q049a. EXAMINER: Record height to the nearest 0.5 cm or inch. [Note: All measurements in inches were converted to centimeters.]

 H5HGTINS - FLAG: HEIGHT CONVERTED INCHES TO CMs -W5
---

Type	Code
------	------

Measurement Unit	Numeric
H5HGTINS	FLAG indicating height was measured in inches and was converted to centimeters.
0	no
1	yes

#### H5WGT - MEASURED WEIGHT (KG) -W5

Type	Numeric (Double)
H5WGT	Q061a. EXAMINER: Enter weight to the nearest 0.1 kg or lb. [Note: All measurements in pounds were converted to kilograms.]

#### H5WGTLBS - FLAG: WEIGHT CONVERTED LBs TO KGs -W5

Type	Code
Measurement Unit	Numeric
H5WGTLBS	FLAG indicating weight was measured in pounds and was converted to kilograms.
0	no
1	yes

#### H5BMI - BMI (KG/M2) -W5

Type	Numeric (Double)
H5BMI	Body Mass Index (kg/m2)

#### H5BMICLS - CLASSIFICATION OF BMI (NIH) -W5

Type	Code
Measurement Unit	Numeric
H5BMICLS	Body Mass Index classification according to National Institutes of Health Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults
1	underweight: BMI is < 18.5
2	normal: BMI is 18.5 - 24.9
3	overweight: BMI is 25 - 29.9
4	obesity stage I: BMI is 30 - 34.9
5	obesity stage II: BMI is 35 - 39.9
6	obesity stage III: BMI is >= 40

#### H5WAIST - MEASURED WAIST CIRCUMFERENCE (CM) -W5

Type	Numeric (Double)
H5WAIST	Q065a. EXAMINER: Enter waist circumference to the nearest 0.5 cm or inch. [Note: All measurements in inches were converted to centimeters.]

 H5WSTINS - FLAG: WAIST CONVERTED INCHES TO CMs -W5

Type	Code
Measurement Unit	Numeric
H5WSTINS	FLAG indicating waist was measured in inches and was converted to centimeters.
0	no
1	yes

 H5WSTCLS - CLASSIFICATION OF WAIST CIRCUM (NIH) -W5

Type	Code
Measurement Unit	Numeric
H5WSTCLS	Waist circumference classification according to National Institutes of Health Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults
1	low risk: females <= 88 cm; males <= 102 cm
2	high risk: females > 88 cm; males > 102 cm

## Physical Instances

 Wave V Anthropometrics

Title	Wave V Anthropometrics
File Name	banthro5.sas7bdat
Case Quantity	5381
Variable Count	12

 H5ARM - Q023 WHICH ARM IS MEASURED (1=R,2=L) -W5

Type	Code
Measurement Unit	Numeric
H5ARM	Use right arm unless instructed otherwise Q023. EXAMINER: Which arm is measured?

			Frequency	% of total	% of valid
Valid	1	right	4876	90.62%	90.72%
	2	left	499	9.27%	9.28%
Total			5,375	99.89%	100%

Missing	96	refused	6	0.11%	
		Total	6	0.11%	

Valid	Invalid	Minimum	Maximum
5375	6	1	2

#### H5ARMCIR - MEASURED ARM CIRCUMFERENCE (CM) -W5

Type	Numeric (Double)
H5ARMCIR	Q025a. EXAMINER: Enter arm circumference to nearest 0.5 cm or inch. [Note: All measurements in inches were converted to centimeters.]

			Frequency	% of total	% of valid
Missing	9996	refused	6	0.11%	
	9999	invalid data	5	0.09%	
		Total	11	0.2%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
5370	11	9.5	66	30.895027...	5.1649887...

#### H5ARMINS - FLAG: ARM CONVERTED INCHES TO CMs -W5

Type	Code
Measurement Unit	Numeric
H5ARMINS	FLAG indicating arm was measured in inches and was converted to centimeters.

			Frequency	% of total	% of valid
Valid	0	no	5299	98.48%	98.68%
	1	yes	71	1.32%	1.32%
		Total	5,370	99.8%	100%
Missing	.	not applicable (no arm measurement)	11	0.2%	
		Total	11	0.2%	

Valid	Invalid	Minimum	Maximum
5370	11	0	1

#### H5HGT - MEASURED HEIGHT (CM) -W5

Type	Numeric (Double)
H5HGT	Q049a. EXAMINER: Record height to the nearest 0.5 cm or inch. [Note: All measurements in inches were converted to centimeters.]

			Frequency	% of total	% of valid
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Missing	9994	exam stopped prior to measurement	23	0.43%	
	9996	refused	8	0.15%	
	9997	legitimate skip	1	0.02%	
	9999	invalid data	37	0.69%	
		Total	69	1.28%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
5312	69	130	204	169.92703...	9.7592945...

#### H5HGTINS - FLAG: HEIGHT CONVERTED INCHES TO CMs -W5

Type	Code
Measurement Unit	Numeric
H5HGTINS	FLAG indicating height was measured in inches and was converted to centimeters.

			Frequency	% of total	% of valid
Valid	0	no	5225	97.1%	98.36%
	1	yes	87	1.62%	1.64%
		Total	5,312	98.72%	100%
Missing	.	not applicable (no height measurement)	69	1.28%	
		Total	69	1.28%	

Valid	Invalid	Minimum	Maximum
5312	69	0	1

#### H5WGT - MEASURED WEIGHT (KG) -W5

Type	Numeric (Double)
H5WGT	Q061a. EXAMINER: Enter weight to the nearest 0.1 kg or lb. [Note: All measurements in pounds were converted to kilograms.]

			Frequency	% of total	% of valid
Missing	9994	exam stopped prior to measurement	23	0.43%	
	9996	refused	13	0.24%	
	9997	legitimate skip	13	0.24%	
	9999	invalid data	17	0.32%	
		Total	66	1.23%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
5315	66	38.5	200	88.711138...	24.359873...



 H5WGTLBS - FLAG: WEIGHT CONVERTED LBs TO KGs -W5

Type	Code
Measurement Unit	Numeric
H5WGTLBS	FLAG indicating weight was measured in pounds and was converted to kilograms.

			Frequency	% of total	% of valid
Valid	0	no	5150	95.71%	96.9%
	1	yes	165	3.07%	3.1%
		Total	5,315	98.77%	100%
Missing	.	not applicable (no weight measurement)	66	1.23%	
	Total		66	1.23%	

Valid	Invalid	Minimum	Maximum
5315	66	0	1

 H5BMI - BMI (KG/M2) -W5

Type	Numeric (Double)
H5BMI	Body Mass Index (kg/m <sup>2</sup> )

			Frequency	% of total	% of valid
Missing	9994	exam stopped prior to measurements	23	0.43%	
	9996	refused height and/or weight	15	0.28%	
	9997	legitimate skip of height and/or weight	13	0.24%	
	9999	invalid data for height and/or weight	54	1%	
		Total	105	1.95%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
5276	105	16.4	79.6	30.651478...	7.8489749...

 H5BMICLS - CLASSIFICATION OF BMI (NIH) -W5

Type	Code
Measurement Unit	Numeric
H5BMICLS	Body Mass Index classification according to National Institutes of Health Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults

			Frequency	% of total	% of valid
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Valid	1	underweight: BMI is < 18.5	39	0.72%	0.74%
	2	normal: BMI is 18.5 - 24.9	1301	24.18%	24.66%
	3	overweight: BMI is 25 - 29.9	1520	28.25%	28.81%
	4	obesity stage I: BMI is 30 - 34.9	1133	21.06%	21.47%
	5	obesity stage II: BMI is 35 - 39.9	647	12.02%	12.26%
	6	obesity stage III: BMI is >= 40	636	11.82%	12.05%
		Total	5,276	98.05%	100%
Missing	.	not applicable (no BMI measurement)	105	1.95%	
		Total	105	1.95%	

Valid	Invalid	Minimum	Maximum
5276	105	1	6

#### H5WAIST - MEASURED WAIST CIRCUMFERENCE (CM) -W5

Type	Numeric (Double)
H5WAIST	Q065a. EXAMINER: Enter waist circumference to the nearest 0.5 cm or inch. [Note: All measurements in inches were converted to centimeters.]

			Frequency	% of total	% of valid
Missing	9994	exam stopped prior to measurement	23	0.43%	
	9996	refused	16	0.3%	
	9997	legitimate skip	8	0.15%	
	9999	invalid data	2	0.04%	
		Total	49	0.91%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
5332	49	47	185	97.742573...	18.969459...

#### H5WSTINS - FLAG: WAIST CONVERTED INCHES TO CMs -W5

Type	Code
Measurement Unit	Numeric
H5WSTINS	FLAG indicating waist was measured in inches and was converted to centimeters.

			Frequency	% of total	% of valid
Valid	0	no	5260	97.75%	98.65%
	1	yes	72	1.34%	1.35%
		Total	5,332	99.09%	100%
Missing	.	not applicable (no waist measurement)	49	0.91%	

		Total	49	0.91%	
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Valid	Invalid	Minimum	Maximum
5332	49	0	1

### H5WSTCLS - CLASSIFICATION OF WAIST CIRCUM (NIH) -W5

Type	Code
Measurement Unit	Numeric
H5WSTCLS	Waist circumference classification according to National Institutes of Health Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults

			Frequency	% of total	% of valid
Valid	1	low risk: females <= 88 cm; males <= 102 cm	2595	48.23%	48.67%
	2	high risk: females > 88 cm; males > 102 cm	2737	50.86%	51.33%
		Total	5,332	99.09%	100%
Missing	.	not applicable (no waist measurement)	49	0.91%	
		Total	49	0.91%	

Valid	Invalid	Minimum	Maximum
5332	49	1	2