

#### **ICPSR 21600**

### National Longitudinal Study of Adolescent to Adult Health (Add Health), 1994-2018 [Public Use]

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Wave V: Biomarkers, Cardiovascular Measures Codebook/Questionnaire

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#### Wave V Cardiovascular Measures Public-Use



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#### **Wave V Cardiovascular Measures**

Title	Wave V Cardiovascular Measures
Description	These data are unweighted, however the Add Health restricted-use data provide weights for the bio data. If interested in the nationally representative biological data, users should apply for a restricted-use contract.
File Name	pcardio5.xpt
Case Quantity	1839
Variable Count	31

#### ■ AID - RESPONDENT IDENTIFIER

Туре	Text
Constraints	Maximum Length: 8
AID	Respondent Identifier Number

Valid	Invalid	Minimum	Maximum
1839	0	57101310	99719976

#### ■ H5Q015 - Q015 SMOKE ANY TOBACCO PRODUCTS -W5

Туре	Code
Measurement Unit	Numeric
H5Q015	Q015. Do you smoke any tobacco products, like cigarettes?

			Frequency	% of total	% of valid
Valid	0	no	1413	76.84%	76.84%
	1	yes	426	23.16%	23.16%
		Total	1,839	100%	100%

Valid	Invalid	Minimum	Maximum
1839	0	0	1

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

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

Frequency % of tot	% of valid
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Valid	1	right	1657	90.1%	90.2%
	2	left	180	9.79%	9.8%
		Total	1,837	99.89%	100%
Missing	96	refused	2	0.11%	
		Total	2	0.11%	

Valid	Invalid	Minimum	Maximum
1837	2	1	2

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

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

			Frequency	% of total	% of valid
Missing	9996	refused	2	0.11%	
	9999	invalid data	2	0.11%	
		Total	4	0.22%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1835	4	9.5	66	30.892752	5.2125934

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

Туре	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	1806	98.21%	98.42%
	1	yes	29	1.58%	1.58%
		Total	1,835	99.78%	100%
Missing		not applicable (no arm measurement)	4	0.22%	
		Total	4	0.22%	

Valid	Invalid	Minimum	Maximum
1835	4	0	1

#### ■ H5CUFFIT - FLAG: ARM CIRCUMFERENCE FIT BP CUFF -W5

Туре	Code
Measurement Unit	Numeric
H5CUFFIT	FLAG indicating arm fit the AH BP unit cuff

			Frequency	% of total	% of valid
Valid	0	no	126	6.85%	6.86%
	1	yes	1711	93.04%	93.14%
		Total	1,837	99.89%	100%
Missing		not applicable (no arm measurement)	2	0.11%	
		Total	2	0.11%	

Valid	Invalid	Minimum	Maximum
1837	2	0	1

#### ■ H5Q031 - Q031 SYSTOLIC BP #1 (MMHg) -W5

Туре	Numeric (Double)
H5Q031	Q031 Systolic blood pressure measure #1 (MMHg)

		Frequency	% of total	% of valid
Missing	no measure	79	4.3%	
	Total	79	4.3%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1760	79	73	189	124.48011	16.178427

#### ■ H5Q032 - Q032 DIASTOLIC BP #1 (MMHg) -W5

Туре	Numeric (Double)
H5Q032	Q032 Diastolic blood pressure measure #1 (MMHg)

		Frequency	% of total	% of valid
Missing	no measure	79	4.3%	
	Total	79	4.3%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1760	79	38	135	80.435795	11.405262

#### ■ H5Q033 - Q033 PULSE RATE #1 (/MIN) -W5

Туре	Numeric (Double)
H5Q033	Q033 Pulse rate measure #1 (/MIN)

		Frequency	% of total	% of valid
Missing	no measure	79	4.3%	
	Total	79	4.3%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1760	79	42	125	74.922159	12.411147

#### ■ H5Q036 - Q036 SYSTOLIC BP #2 (MMHg) -W5

Туре	Numeric (Double)
H5Q036	Q036 Systolic blood pressure measure #2 (MMHg)

		Frequency	% of total	% of valid
Missing	no measure	80	4.35%	
	Total	80	4.35%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1759	80	79	195	123.12848	15.118247

#### ■ H5Q037 - Q037 DIASTOLIC BP #2 (MMHg) -W5

Туре	Numeric (Double)
H5Q037	Q037 Diastolic blood pressure measure #2 (MMHg)

		Frequency	% of total	% of valid
Missing	no measure	80	4.35%	
	Total	80	4.35%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1759	80	45	125	79.794201	11.111327

#### ■ H5Q038 - Q038 PULSE RATE #2 (/MIN) -W5

Туре	Numeric (Double)
H5Q038	Q038 Pulse rate measure #2 (/MIN)

		Frequency	% of total	% of valid
Missing	no measure	80	4.35%	
	Total	80	4.35%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1759	80	41	123	74.924957	12.267081

#### ■ H5Q041 - Q041 SYSTOLIC BP #3 (MMHg) -W5

Туре	Numeric (Double)
H5Q041	Q041 Systolic blood pressure measure #3 (MMHg)

		Frequency	% of total	% of valid
Missing	no measure	83	4.51%	
	Total	83	4.51%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1756	83	78	187	122.17482	14.795805

#### ■ H5Q042 - Q042 DIASTOLIC BP #3 (MMHg) -W5

Туре	Numeric (Double)
H5Q042	Q042 Diastolic blood pressure measure #3 (MMHg)

		Frequency	% of total	% of valid
Missing	no measure	83	4.51%	
	Total	83	4.51%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1756	83	45	123	79.374715	10.964107

#### ■ H5Q043 - Q043 PULSE RATE #3 (/MIN) -W5

Туре	Numeric (Double)
H5Q043	Q043 Pulse rate measure #3 (/MIN)

		Frequency	% of total	% of valid
Missing	no measure	83	4.51%	
	Total	83	4.51%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1756	83	42	130	74.948747	11.974269

#### ■ H5BPFLG - # BPs/PRs USED FOR SINGLE MEASURE -W5

Туре	Code
Measurement Unit	Numeric
H5BPFLG	Number of measures used to generate the final blood pressure and pulse variables

			Frequency	% of total	% of valid
Valid	1	measures 2 & 3	1755	95.43%	95.43%
	2	measure 3 only	1	0.05%	0.05%
	3	measure 2 only	4	0.22%	0.22%
	4	measure 1 only	2	0.11%	0.11%
	5	no measures	77	4.19%	4.19%
		Total	1,839	100%	100%

Valid	Invalid	Minimum	Maximum
1839	0	1	5

#### ■ H5SBP - SYSTOLIC BLOOD PRESSURE (MMHg) -W5

Туре	Numeric (Double)
H5SBP	Systolic blood pressure (MMHg) based on Q031, Q036, Q041

			Frequency	% of total	% of valid
Missing	9996	refused	3	0.16%	
	9997	legitimate skip	69	3.75%	
	9999	invalid measurements	5	0.27%	
		Total	77	4.19%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1762	77	80.5	185.5	122.67082	14.344746

#### ■ H5DBP - DIASTOLIC BLOOD PRESSURE (MMHg) -W5

Туре	Numeric (Double)
H5DBP	Diastolic blood pressure (MMHg) based on Q032, Q037, Q042

			Frequency	% of total	% of valid
Missing	9996	refused	3	0.16%	
	9997	legitimate skip	69	3.75%	
	9999	invalid measurements	5	0.27%	
		Total	77	4.19%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1762	77	45	123	79.607832	10.705494

#### ■ H5BPCLS5 - CLASS OF BLOOD PRESSURE (AHA/ACC) -W5

Туре	Code
Measurement Unit	Numeric

H5BPCLS5	Blood pressure classification according to the Guideline for the Prevention,
	Detection, Evaluation, and Management of High Blood Pressure in Adults
	from the American Heart Association/American College of Cardiology Task
	Force (AHA/ACC)

			Frequency	% of total	% of valid
Valid	1	normal: systolic BP is < 120 and diastolic BP is < 80	665	36.16%	37.74%
	2	elevated: systolic BP is 120-129 and diastolic BP is < 80	218	11.85%	12.37%
	3	hypertension stage 1: systolic BP is 130-139 or diastolic BP is 80-89	533	28.98%	30.25%
	4	hypertension stage 2: systolic BP is 140-180 or diastolic BP is 90-120	343	18.65%	19.47%
	5	hypertension crisis: systolic BP is > 180 or diastolic BP is > 120	3	0.16%	0.17%
		Total	1,762	95.81%	100%
Missing		not applicable (no BP measure)	77	4.19%	
		Total	77	4.19%	

Valid	Invalid	Minimum	Maximum
1762	77	1	5

## Type Code Measurement Unit Numeric H5BPCLS4 Blood pressure classification according to guidelines from the Seventh Report of the Joint National Committee on Prevention Detection, Evaluation, and Treatment of High Blood Pressure (JNC7)

			Frequency	% of total	% of valid
Valid 1	1	normal: systolic BP is < 120 and diastolic BP is < 80	665	36.16%	37.74%
	pre-hypertension: systolic BP is 120-139 or diastolic BP is 80-89	751	40.84%	42.62%	
	3	hypertension stage 1: systolic BP is 140-159 or diastolic BP is 90-	269	14.63%	15.27%
	4	hypertension stage 2: systolic BP is >= 160 or diastolic BP is >= 100	77	4.19%	4.37%

	Total	1,762	95.81%	100%
Missing	not applicable (no BP measure)	77	4.19%	
	Total	77	4.19%	

Valid	Invalid	Minimum	Maximum
1762	77	1	4

#### ■ H5PR - PULSE RATE (/MIN)-W5

Туре	Numeric (Double)
H5PR	Pulse rate (/MIN) based on Q033, Q038, Q043

			Frequency	% of total	% of valid
Missing	9996	refused	3	0.16%	
	9997	legitimate skip	69	3.75%	
	9999	invalid measurements	5	0.27%	
		Total	77	4.19%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1762	77	42	123	74.937570	11.821827

#### ■ H5PP - PULSE PRESSURE (MMHg) -W5

Туре	Numeric (Double)
Н5РР	Pulse pressure (MMHg) - the difference between systolic and diastolic blood
	pressures

			Frequency	% of total	% of valid
Missing	9996	refused	3	0.16%	
	9997	legitimate skip	69	3.75%	
	9999	invalid measurements	5	0.27%	
		Total	77	4.19%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1762	77	18	95.5	43.062996	8.2158731

#### ■ H5MAP - MEAN ARTERIAL PRESSURE (MMHg) -W5

Туре	Numeric (Double)
Н5МАР	Mean arterial pressure (MMHg) - which is conventionally approximated as the weighted sum of systolic and diastolic blood pressure measures

	Frequency	% of total	% of valid
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Missing	9996	refused	3	0.16%	
	9997	legitimate skip	69	3.75%	
	9999	invalid measurements	5	0.27%	
		Total	77	4.19%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1762	77	65.3	142.7	93.961520	11.401453

#### ■ H5Q045A - Q045a EVER DX HIGH BLOOD PRESSURE -W5

Туре	Code
Measurement Unit	Numeric
H5Q045A	Q045. Has a doctor, nurse or health care provider ever told you that you have ANY of the following?
	a. High blood pressure or hypertension (if female, when you were NOT
	pregnant)

			Frequency	% of total	% of valid
Valid	0	no	1495	81.29%	81.34%
	1	yes	343	18.65%	18.66%
		Total	1,838	99.95%	100%
Missing	95	not asked of everyone	1	0.05%	
		Total	1	0.05%	

Valid	Invalid	Minimum	Maximum
1838	1	0	1

#### ■ H5Q045B - Q045b EVER DX WITH DIABETES -W5

Туре	Code
Measurement Unit	Numeric
H5Q045B	Q045. Has a doctor, nurse or health care provider ever told you that you have ANY of the following?
	b. High blood sugar or diabetes (if female, when you were NOT pregnant)

			Frequency	% of total	% of valid
Valid	0	no	1718	93.42%	93.47%
	1	yes	120	6.53%	6.53%
		Total	1,838	99.95%	100%
Missing	95	not asked of everyone	1	0.05%	
		Total	1	0.05%	

Valid	Invalid	Minimum	Maximum
Valla	IIIValia	IVIIIIIIIIIII	WIGAIII

1838 1 0 1	
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# Type Code Measurement Unit Numeric H5Q045C Q045. Has a doctor, nurse or health care provider ever told you that you have ANY of the following? c. Heart attack or heart surgery for clogged coronary arteries (including bypass, angioplasty or stent)

			Frequency	% of total	% of valid
Valid	0	no	1823	99.13%	99.18%
	1	yes	15	0.82%	0.82%
		Total	1,838	99.95%	100%
Missing	95	not asked of everyone	1	0.05%	
		Total	1	0.05%	

Valid	Invalid	Minimum	Maximum
1838	1	0	1

#### ■ H5Q045D - Q045d EVER DX KIDNEY DISEASE/FAILURE -W5

Туре	Code
Measurement Unit	Numeric
H5Q045D	Q045. Has a doctor, nurse or health care provider ever told you that you have ANY of the following? d. Chronic kidney disease or failure

			Frequency	% of total	% of valid
Valid	0	no	1816	98.75%	98.8%
	1	yes	22	1.2%	1.2%
		Total	1,838	99.95%	100%
Missing	95	not asked of everyone	1	0.05%	
		Total	1	0.05%	

Valid	Invalid	Minimum	Maximum
1838	1	0	1

#### ■ H5Q045E - Q045e EVER DX STROKE/CLOGGD ARTERY -W5

Туре	Code
Measurement Unit	Numeric

H5Q045E	Q045. Has a doctor, nurse or health care provider ever told you that you have
	ANY of the following?
	e. Stroke, mini-stroke, or surgery for clogged neck arteries (including
	endarterectomy, bypass, angioplasty or stent)

			Frequency	% of total	% of valid
Valid	0	no	1821	99.02%	99.08%
	1	yes	17	0.92%	0.92%
		Total	1,838	99.95%	100%
Missing	95	not asked of everyone	1	0.05%	
		Total	1	0.05%	

Valid	Invalid	Minimum	Maximum
1838	1	0	1

#### ■ H5Q045F - Q045f EVER DX HIGH CHOLESTROL/TRIG -W5

Туре	Code
Measurement Unit	Numeric
H5Q045F	Q045. Has a doctor, nurse or health care provider ever told you that you have ANY of the following?  f. High cholesterol or triglycerides

			Frequency	% of total	% of valid
Valid	0	no	1568	85.26%	85.31%
	1	yes	270	14.68%	14.69%
		Total	1,838	99.95%	100%
Missing	95	not asked of everyone	1	0.05%	
		Total	1	0.05%	

Valid	Invalid	Minimum	Maximum
1838	1	0	1

#### ■ H5AHT - FLAG: ANTIHYPERTENSIVE MEDICATION USE-W5

Туре	Code
Measurement Unit	Numeric
Н5АНТ	FLAG indicating respondent took an antihypertensive medication in the past 4 weeks

			Frequency	% of total	% of valid
Valid 0	0	no	1580	85.92%	87.58%
	1	yes	224	12.18%	12.42%

		Total	1,804	98.1%	100%
Missing	94	exam stopped prior to medication questions	5	0.27%	
	99	respondent reported taking prescription medication(s), but specific medication(s) not reported	30	1.63%	
		Total	35	1.9%	

Valid	Invalid	Minimum	Maximum
1804	35	0	1

■ H5HTENJC - HYPERTENSION JOINT CLASSIFICATION -W5		
Туре	Code	
Measurement Unit	Numeric	
H5HTENJC	FLAG indicating respondent has EITHER a blood pressure measure classified as hypertension stage 1 or 2 based on JNC7 (H5BPCLS4=3 or 4) OR took an antihypertensive medication in the past 4 weeks (H5AHT=1) OR has ever been diagnosed with high blood pressure or hypertension (H5Q045A=1)	

			Frequency	% of total	% of valid
Valid	0	no evidence of hypertension	1272	69.17%	69.17%
	1	evidence of hypertension	567	30.83%	30.83%
		Total	1,839	100%	100%

Valid	Invalid	Minimum	Maximum
1839	0	0	1