

2020

Add Health Wave V Codebook



## Wave V Lipids



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## Wave V Lipids

Title	Wave V Lipids
File Name	blipids5.xpt
Case Quantity	5381
Variable Count	26



### AID - RESPONDENT IDENTIFIER

Type	Text
Constraints	Maximum Length: 8
AID	Respondent Identifier Number

Valid	Invalid	Minimum	Maximum
5381	0	10506342	99886996



### H5TC - TOTAL CHOLESTEROL (TC, MG/DL) -W5

Type	Numeric (Double)
Measurement Unit	Numeric
H5TC	Total Cholesterol (TC) assay results (mg/dl).

			Frequency	% of total	% of valid
Missing	.	missing	589	10.9%	
		Total	589	10.9%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
4792	589	62	424	180.64	35.81



### H5TCDEC - TOTAL CHOLESTEROL (TC) DECILE -W5

Type	Code
Measurement Unit	Numeric
H5TCDEC	Total Cholesterol (TC) assay results ordered and assigned decile ranks.

			Frequency	% of total	% of valid
Valid	1	First decile	499	9.3%	10.4%
	2	Second decile	479	8.9%	10.0%
	3	Third decile	466	8.7%	9.7%
	4	Fourth decile	488	9.1%	10.2%
	5	Fifth decile	474	8.8%	9.9%
	6	Sixth decile	487	9.1%	10.2%
	7	Seventh decile	488	9.1%	10.2%
	8	Eighth decile	480	8.9%	10.0%

	9	Ninth decile	463	8.6%	9.7%
	10	Tenth decile	468	8.7%	9.8%
		Total	4,792	89.1%	100%
Missing	.	not applicable (no TC result)	589	10.9%	
		Total	589	10.9%	

Valid	Invalid	Minimum	Maximum
4792	589	1	10

### H5HDL - HDL CHOLESTEROL (HDL-C, MG/DL) -W5

Type	Numeric (Double)
Measurement Unit	Numeric
H5HDL	High-Density Lipoprotein Cholesterol (HDL-C) assay results (mg/dl).

			Frequency	% of total	% of valid
Missing	.	missing	589	10.9%	
	9999	implausible value < 15 or > 175	1	0.0%	
		Total	590	11.0%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
4791	590	17	156	49.63	15.21

### H5HDLDEC - HDL CHOLESTEROL (HDL-C) DECILE -W5

Type	Code
Measurement Unit	Numeric
H5HDLDEC	High-Density Lipoprotein Cholesterol (HDL-C) assay results ordered and assigned decile ranks.

			Frequency	% of total	% of valid
Valid	1	First decile	551	10.2%	11.5%
	2	Second decile	468	8.7%	9.8%
	3	Third decile	544	10.1%	11.4%
	4	Fourth decile	438	8.1%	9.1%
	5	Fifth decile	441	8.2%	9.2%
	6	Sixth decile	499	9.3%	10.4%
	7	Seventh decile	433	8.0%	9.0%
	8	Eighth decile	525	9.8%	11.0%
	9	Ninth decile	428	8.0%	8.9%
	10	Tenth decile	464	8.6%	9.7%
		Total	4,791	89.0%	100%
Missing	.	not applicable (no HDL-C result)	590	11.0%	
		Total	590	11.0%	

Valid	Invalid	Minimum	Maximum
4791	590	1	10

### H5TG - TRIGLYCERIDES (TG, MG/DL) -W5

Type	Numeric (Double)
Measurement Unit	Numeric
H5TG	Triglyceride (TG) assay results (mg/dl).

			Frequency	% of total	% of valid
Missing	.	missing	590	11.0%	
		Total	590	11.0%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
4791	590	22	1604	129.42	95.3

### H5TGDEC - TRIGLYCERIDES (TG) DECILE -W5

Type	Code
Measurement Unit	Numeric
H5TGDEC	Triglyceride (TG) assay results ordered and assigned decile ranks

			Frequency	% of total	% of valid
Valid	1	First decile	495	9.2%	10.3%
	2	Second decile	510	9.5%	10.6%
	3	Third decile	465	8.6%	9.7%
	4	Fourth decile	489	9.1%	10.2%
	5	Fifth decile	444	8.3%	9.3%
	6	Sixth decile	494	9.2%	10.3%
	7	Seventh decile	457	8.5%	9.5%
	8	Eighth decile	480	8.9%	10.0%
	9	Ninth decile	482	9.0%	10.1%
	10	Tenth decile	475	8.8%	9.9%
		Total	4,791	89.0%	100%
Missing	.	not applicable (no TG result)	590	11.0%	
		Total	590	11.0%	

Valid	Invalid	Minimum	Maximum
4791	590	1	10

### H5LDL - LDL CHOLESTEROL (LDL-C, MG/DL) -W5

Type	Numeric (Double)
Measurement Unit	Numeric
H5LDL	Low-Density Lipoprotein Cholesterol (LDL-C) indirect/direct results (mg/dl).

			Frequency	% of total	% of valid
Missing	.	missing	601	11.2%	
		Total	601	11.2%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
4780	601	9	332	105.78	31.87

### H5LDLDEC - LDL CHOLESTEROL (LDL-C) DECILE -W5

Type	Code
Measurement Unit	Numeric
H5LDLDEC	Low-Density Lipoprotein Cholesterol (LDL-C) indirect/direct results ordered and assigned decile ranks.

			Frequency	% of total	% of valid
Valid	1	First decile	488	9.1%	10.2%
	2	Second decile	472	8.8%	9.9%
	3	Third decile	485	9.0%	10.1%
	4	Fourth decile	520	9.7%	10.9%
	5	Fifth decile	436	8.1%	9.1%
	6	Sixth decile	483	9.0%	10.1%
	7	Seventh decile	489	9.1%	10.2%
	8	Eighth decile	483	9.0%	10.1%
	9	Ninth decile	459	8.5%	9.6%
	10	Tenth decile	465	8.6%	9.7%
		Total	4,780	88.8%	100%
Missing	.	not applicable (no LDL-C result)	601	11.2%	
		Total	601	11.2%	

Valid	Invalid	Minimum	Maximum
4780	601	1	10

### H5LDLMM - LDL-C METHOD OF MEASUREMENT -W5

Type	Code
Measurement Unit	Numeric
H5LDLMM	LDL-C method of measurement. When TG < 400 mg/dl, LDL-C was indirectly calculated from the respondent-specific concentrations (mg/dl) of total cholesterol, high-density lipoprotein cholesterol, and triglycerides using the Friedewald equation ( $LDL-C = TC - HDL-C - [TG/5]$ ). When TG $\geq$ 400 mg/dl, LDL-C was directly measured.

			Frequency	% of total	% of valid
Valid	1	indirect calculation	4,690	87.2%	98.1%

	2	directly measured	90	1.7%	1.9%
		Total	4,780	88.8%	100%
Missing	.	not applicable (no LDL-C result)	601	11.2%	
		Total	601	11.2%	

Valid	Invalid	Minimum	Maximum
4780	601	1	2

### H5NHDL - NON-HDL CHOLESTRL (non-HDL-C, MG/DL) -W5

Type	Numeric (Double)
Measurement Unit	Numeric
H5NHDL	Non-High-Density Lipoprotein Cholesterol (non-HDL-C) calculated from Total Cholesterol and High-Density Lipoprotein Cholesterol.

			Frequency	% of total	% of valid
Missing	.	missing	590	11.0%	
		Total	590	11.0%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
4791	590	18	372	131.02	37.48

### H5NHDEC - NON-HDL CHOLESTRL (non-HDL-C) DECILE -W5

Type	Code
Measurement Unit	Numeric
H5NHDEC	Non-High-Density Lipoprotein Cholesterol (non-HDL-C) ordered and assigned ranks.

			Frequency	% of total	% of valid
Valid	1	First decile	479	8.9%	10.0%
	2	Second decile	494	9.2%	10.3%
	3	Third decile	494	9.2%	10.3%
	4	Fourth decile	483	9.0%	10.1%
	5	Fifth decile	488	9.1%	10.2%
	6	Sixth decile	467	8.7%	9.7%
	7	Seventh decile	449	8.3%	9.4%
	8	Eighth decile	503	9.3%	10.5%
	9	Ninth decile	467	8.7%	9.7%
	10	Tenth decile	467	8.7%	9.7%
		Total	4,791	89.0%	100%
Missing	.	not applicable (no non-HDL-C result)	590	11.0%	
		Total	590	11.0%	

Valid	Invalid	Minimum	Maximum
4791	590	1	10

### H5TC\_HDL - TC TO HDL-C RATIO (TC:HDL-C) -W5

Type	Numeric (Double)
Measurement Unit	Numeric
H5TC_HDL	Total Cholesterol to High-Density Lipoprotein Cholesterol ratio (TC:HDL-C).

			Frequency	% of total	% of valid
Missing	.	not applicable (no TC and/or HDL-C result)	590	11.0%	
		Total	590	11.0%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
4791	590	1.22	13.28	3.95	1.39

### H5TCHDEC - TC TO HDL-C RATIO (TC:HDL-C) DECILE-W5

Type	Code
Measurement Unit	Numeric
H5TCHDEC	Total Cholesterol to High-Density Lipoprotein Cholesterol ratio (TC:HDL-C) ordered and assigned ranks.

			Frequency	% of total	% of valid
Valid	1	First decile	479	8.9%	10.0%
	2	Second decile	479	8.9%	10.0%
	3	Third decile	479	8.9%	10.0%
	4	Fourth decile	481	8.9%	10.0%
	5	Fifth decile	477	8.9%	10.0%
	6	Sixth decile	484	9.0%	10.1%
	7	Seventh decile	477	8.9%	10.0%
	8	Eighth decile	491	9.1%	10.2%
	9	Ninth decile	466	8.7%	9.7%
	10	Tenth decile	478	8.9%	10.0%
		Total	4,791	89.0%	100%
Missing	.	not applicable (no TC and/or HDL-C result)	590	11.0%	
		Total	590	11.0%	

Valid	Invalid	Minimum	Maximum
4791	590	1	10

### H5FASTTM - HOURS SINCE LAST ATE -W5

Type	Numeric (Double)
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Measurement Unit	Numeric
H5FASTTM	Number of hours since the last time the respondent ate

			Frequency	% of total	% of valid
Missing	.	not applicable (no blood draw)	370	6.9%	
	-999	implausible value < 0 hours	11	0.2%	
	999	implausible value >= 24 hours	49	0.9%	
		Total	430	8.0%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
4951	430	0	23.9	9.38	5.53

### H5FASTLP - FLAG: FASTED FOR 9+ HOURS -W5

Type	Code
Measurement Unit	Numeric
H5FASTLP	FLAG indicating respondent fasted for nine or more hours

			Frequency	% of total	% of valid
Valid	0	no	1,879	34.9%	38.0%
	1	yes	3,072	57.1%	62.0%
		Total	4,951	92.0%	100%
Missing	.	not applicable (no fasting hours)	430	8.0%	
		Total	430	8.0%	

Valid	Invalid	Minimum	Maximum
4951	430	0	1

### H5CTC - CLASSIFICATION OF TC (NCEP/ATP III) -W5

Type	Code
Measurement Unit	Numeric
H5CTC	The classification of fasting Total Cholesterol according to NCEP/ATP III guidelines.

			Frequency	% of total	% of valid
Valid	1	Desirable: TC is < 200 mg/dl	2,151	40.0%	44.9%
	2	Borderline high: TC is 200-239 mg/dl	608	11.3%	12.7%
	3	High: TC is >= 240 mg/dl	179	3.3%	3.7%
	4	Non-fasting	1,799	33.4%	37.5%
	5	Fasting status unknown	55	1.0%	1.1%
		Total	4,792	89.1%	100%
Missing	.	not applicable (no TC result)	589	10.9%	

		Total	589	10.9%	
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Valid	Invalid	Minimum	Maximum
4792	589	1	5

### H5CHDL - CLASSIFICATION OF HDL-C (NCEP/ATP III)-W5

Type	Code
Measurement Unit	Numeric
H5CHDL	The classification of fasting High-Density Lipoprotein Cholesterol according to NCEP/ATP III guidelines.

			Frequency	% of total	% of valid
Valid	1	Low: HDL-C is < 40 mg/dl	809	15.0%	16.9%
	2	Optimal: HDL-C is 40-59 mg/dl	1,514	28.1%	31.6%
	3	High: HDL-C is >= 60 mg/dl	615	11.4%	12.8%
	4	Non-fasting	1,798	33.4%	37.5%
	5	Fasting status unknown	55	1.0%	1.1%
		Total	4,791	89.0%	100%
Missing	.	not applicable (no HDL-C result)	590	11.0%	
		Total	590	11.0%	

Valid	Invalid	Minimum	Maximum
4791	590	1	5

### H5C1TG - CLASSIFICATION OF TG (NCEP/ATP III) -W5

Type	Code
Measurement Unit	Numeric
H5C1TG	The classification of fasting Triglycerides according to NCEP/ATP III guidelines.

			Frequency	% of total	% of valid
Valid	1	Normal: TG is < 150 mg/dl	2,228	41.4%	46.5%
	2	Borderline high: TG is 150-199 mg/dl	361	6.7%	7.5%
	3	High: TG is 200-499 mg/dl	318	5.9%	6.6%
	4	Very high: TG is >= 500 mg/dl	30	0.6%	0.6%
	5	Non-fasting	1,799	33.4%	37.5%
	6	Fasting status unknown	55	1.0%	1.1%
		Total	4,791	89.0%	100%
Missing	.	not applicable (no TG result)	590	11.0%	
		Total	590	11.0%	

Valid	Invalid	Minimum	Maximum
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4791	590	1	6
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### H5C1LDL - CLASSIFICATION OF LDL-C (NCEP/ATP III)-W5

Type	Code
Measurement Unit	Numeric
H5C1LDL	The classification of fasting Low-Density Lipoprotein Cholesterol according to NCEP/ATP III guidelines.

			Frequency	% of total	% of valid
Valid	1	Optimal: LDL-C is < 100 mg/dl	1,252	23.3%	26.2%
	2	Near optimal: LDL-C is 100-129 mg/dl	1,028	19.1%	21.5%
	3	Borderline high: LDL-C is 130-159 mg/dl	483	9.0%	10.1%
	4	High: LDL-C is 160-189 mg/dl	130	2.4%	2.7%
	5	Very high: LDL-C is >= 190 mg/dl	40	0.7%	0.8%
	6	Non-fasting	1,793	33.3%	37.5%
	7	Fasting status unknown	54	1.0%	1.1%
		Total	4,780	88.8%	100%
Missing	.	not applicable (no LDL-C result)	601	11.2%	
		Total	601	11.2%	

Valid	Invalid	Minimum	Maximum
4780	601	1	7

### H5C2TG - CLASSIFICATION OF TG (AHA/ACC) -W5

Type	Code
Measurement Unit	Numeric
H5C2TG	The classification of Triglycerides according to AHA/ACC guidelines.

			Frequency	% of total	% of valid
Valid	1	Normal: TG is < 175 mg/dl	3,821	71.0%	79.8%
	2	Moderate hypertriglyceridemia: TG is 175-499 mg/dl	917	17.0%	19.1%
	3	Severe hypertriglyceridemia: TG is >= 500 mg/dl	30	0.6%	0.6%
	4	Non-fasting: TG is >= 500 mg/dl	22	0.4%	0.5%
	5	Fasting status unknown: TG is >= 500 mg/dl	1	0.0%	0.0%
		Total	4,791	89.0%	100%
Missing	.	not applicable (no TG result)	590	11.0%	
		Total	590	11.0%	

Valid	Invalid	Minimum	Maximum
4791	590	1	5

### H5C2LDL - CLASSIFICATION OF LDL-C (AHA/ACC) -W5

Type	Code
Measurement Unit	Numeric
H5C2LDL	The classification of Low-Density Lipoprotein Cholesterol according to AHA/ACC guidelines.

			Frequency	% of total	% of valid
Valid	1	Normal: LDL-C is < 160 mg/dl	4,538	84.3%	94.9%
	2	Moderate hypercholesterolemia: LDL-C is 160-189 mg/dl	187	3.5%	3.9%
	3	Severe hypercholesterolemia: LDL-C is >= 190 mg/dl	55	1.0%	1.2%
		Total	4,780	88.8%	100%
Missing	.	not applicable (no LDL-C result)	601	11.2%	
		Total	601	11.2%	

Valid	Invalid	Minimum	Maximum
4780	601	1	3

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

Type	Code
Measurement Unit	Numeric
H5Q045F	Has a doctor, nurse or health care provider ever told you that you have high cholesterol or triglycerides?

			Frequency	% of total	% of valid
Valid	0	no	4,626	86.0%	86.0%
	1	yes	751	14.0%	14.0%
		Total	5,377	99.9%	100%
Missing	94	exam stopped prior to question Q045	1	0.0%	
	95	not asked of everyone	1	0.0%	
	96	refused	2	0.0%	
		Total	4	0.1%	

Valid	Invalid	Minimum	Maximum
5377	4	0	1

## H5C\_MED2 - FLAG: ANTIHYPERLIPIDEMIC MED USE -W5

Type	Code
Measurement Unit	Numeric
H5C_MED2	FLAG indicating respondent took an antihyperlipidemic medication in the past 4 weeks

			Frequency	% of total	% of valid
Valid	0	no	5,068	94.2%	96.2%
	1	yes	198	3.7%	3.8%
		Total	5,266	97.9%	100%
Missing	94	exam stopped prior to the medication questions	23	0.4%	
	96	refused	3	0.1%	
	98	medication could not be classified	1	0.0%	
	99	respondent reported taking prescription medication(s), but specific medication(s) not reported	88	1.6%	
		Total	115	2.1%	

Valid	Invalid	Minimum	Maximum
5266	115	0	1

## H5HLIPJC - HYPERLIPIDEMIA JOINT CLASSIFICATION -W5

Type	Code
Measurement Unit	Numeric
H5HLIPJC	FLAG indicating respondent has EITHER a self-reported history of high cholesterol or triglycerides (H5Q045F = 1) OR taken an antihyperlipidemic medication in the past 4 weeks (H5C_MED2 = 1) OR has a fasting TG concentration $\geq 500$ mg/dl (H5C2TG = 3) OR an LDL-C concentration $\geq 190$ mg/dl (H5C2LDL = 3).

			Frequency	% of total	% of valid
Valid	0	no evidence of hyperlipidemia	4,541	84.4%	84.4%
	1	evidence of hyperlipidemia	837	15.6%	15.6%
		Total	5,378	99.9%	100%
Missing	.	missing on all components of joint classification	3	0.1%	
		Total	3	0.1%	

Valid	Invalid	Minimum	Maximum
5378	3	0	1

## H5HLPJC4 - HYPERLIPIDEMIA JOINT CLASS (WAVE IV) -W5

Type	Code
Measurement Unit	Numeric
H5HLPJC4	FLAG indicating respondent has EITHER a self-reported history of high cholesterol or triglycerides (H5Q045F = 1) OR has taken an antihyperlipidemic medication in the past 4 weeks (H5C_MED2 = 1). This joint classification variable parallels the Wave IV joint classification variable.

			Frequency	% of total	% of valid
Valid	0	no evidence of hyperlipidemia	4,597	85.4%	85.5%
	1	evidence of hyperlipidemia	781	14.5%	14.5%
		Total	5,378	99.9%	100%
Missing	.	missing on all components of joint classification	3	0.1%	
		Total	3	0.1%	

Valid	Invalid	Minimum	Maximum
5378	3	0	1