

2025

Add Health Wave VI Codebook



Add Health

The National Longitudinal Study of Adolescent to Adult Health

Wave VI Lipids Codebook



Acknowledgement:

Data collection and dissemination for Wave VI of Add Health was funded by cooperative agreements U01 AG071448 (PI: Robert A. Hummer) and U01 AG071450 (MPIs: Robert A. Hummer and Allison E. Aiello) from the National Institute on Aging to the University of North Carolina at Chapel Hill, with cooperative funding from five other institutes and offices at the National Institutes of Health: the Eunice Kennedy Shriver National Institute of Child Health and Human Development, the National Institute on Minority Health and Health Disparities, the National Institute on Drug Abuse, the Office of Disease Prevention, and the Office of Behavioral and Social Science Research. Waves I-V of Add Health were funded by grant P01 HD31921 from the Eunice Kennedy Shriver National Institute of Child Health and Human Development, with cooperative funding from 23 other federal agencies and foundations. Add Health is currently directed by Robert A. Hummer at the University of North Carolina at Chapel Hill. Add Health was designed by J. Richard Udry, Peter S. Bearman, and Kathleen Mullan Harris at the University of North Carolina at Chapel Hill.

Important Note: The above acknowledgement should be included in all presentations and publications using data from Wave VI of Add Health.



Wave VI: Lipids

Title	Wave VI: Lipids
File Name	blipids6.sas7bdat
Case Quantity	6073
Variable Count	26



AID - PARTICIPANT IDENTIFIER

Type	Text
Constraints	Maximum Length: 8
AID	Participant Identifier

Valid	Invalid
6,073	0



H6TC - TOTAL CHOLESTEROL (TC, MG/DL) -W6

Type	Numeric (Double)
Measurement Unit	Numeric
H6TC	Total Cholesterol assay results (mg/dl).

			Frequency	% of total	% of valid
Missing	.	missing	813	13.39%	
		Total	813	13.39%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
5,260	813	58	377	187.34068	37.11577



H6HDL - HDL CHOLESTEROL (HDL-C, MG/DL) -W6

Type	Numeric (Double)
Measurement Unit	Numeric
H6HDL	High-Density Lipoprotein Cholesterol assay results (mg/dl).

			Frequency	% of total	% of valid
Missing	-9999	implausible value < 15 or > 175	2	0.03%	
	.	missing	814	13.4%	
		Total	816	13.44%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
5,257	816	18	157	52.44912	17.01393



H6TG - TRIGLYCERIDES (TG, MG/DL) -W6

Type	Numeric (Double)
Measurement Unit	Numeric
H6TG	Triglyceride assay results (mg/dl).

			Frequency	% of total	% of valid
Missing	.	missing	816	13.44%	
		Total	816	13.44%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
5,257	816	25	2,238	133.86133	103.17549

H6LDL - LDL CHOLESTEROL (LDL-C, MG/DL) -W6

Type	Numeric (Double)
Measurement Unit	Numeric
H6LDL	Low-Density Lipoprotein Cholesterol indirect/direct results (mg/dl).

			Frequency	% of total	% of valid
Missing	-9999	calculated from HDL implausible value	2	0.03%	
	.	missing	824	13.57%	
		Total	826	13.6%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
5,247	826	20	307	109	33.04146

H6LDLMM - LDL-C METHOD OF MEASUREMENT -W6

Type	Code
Measurement Unit	Numeric
H6LDLMM	LDL-C method of measurement. When TG <= 400 mg/dl, LDL-C was indirectly calculated from the participant-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 > 400 mg/dl or TG <= 400 and Friedewald equation impute LDL-C < 20, LDL-C was directly measured.

			Frequency	% of total	% of valid
Valid	1	indirect calculation	5,148	84.77%	98.08%
	2	directly measured	101	1.66%	1.92%
		Total	5,249	86.43%	100%
Missing	.	missing	824	13.57%	
		Total	824	13.57%	

Valid	Invalid	Minimum	Maximum
5,249	824	1	2

H6NHDL - NON-HDL CHOLESTEROL (non-HDL-C, MG/DL) -W6

Type	Numeric (Double)
Measurement Unit	Numeric
H6NHDL	Non-High-Density Lipoprotein Cholesterol calculated from Total Cholesterol and High-Density Lipoprotein Cholesterol.

			Frequency	% of total	% of valid
Missing	.	missing	816	13.44%	
		Total	816	13.44%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
5,257	816	18	339	134.87997	37.89341

H6TC_HDL - TC TO HDL-C RATIO (TC:HDL-C) -W6

Type	Numeric (Double)				
Measurement Unit	Numeric				
H6TC_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)	816	13.44%	
		Total	816	13.44%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
5,257	816	1.22	14.48	3.88217	1.33576

H6FASTTM - HOURS SINCE LAST ATE -W6

Type	Numeric (Double)				
Measurement Unit	Numeric				
H6FASTTM	Number of hours since the last time the participant ate				

			Frequency	% of total	% of valid
Missing	-9999	implausible value < 0 hours or >= 24 hours	52	0.86%	
	.	not applicable (no blood draw)	561	9.24%	
		Total	613	10.09%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
5,460	613	0	23.86389	10.70412	5.4715

H6FASTLP - FLAG: FASTED FOR 9+ HOURS -W6

Type	Code				
Measurement Unit	Numeric				
H6FASTLP	FLAG indicating participant fasted for nine or more hours				

			Frequency	% of total	% of valid
Valid	0	no	1,705	28.08%	31.23%
	1	yes	3,755	61.83%	68.77%
		Total	5,460	89.91%	100%
Missing	-9999	implausible value < 0 hours or >= 24 hours	52	0.86%	
	.	not applicable (no blood draw)	561	9.24%	

		Total	613	10.09%	
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Valid	Invalid	Minimum	Maximum
5,460	613	0	1

H6TCDEC - TOTAL CHOLESTEROL (TC) DECILE -W6

Type	Code
Measurement Unit	Numeric
H6TCDEC	Total Cholesterol assay results ordered and assigned decile ranks.

			Frequency	% of total	% of valid
Valid	1	First decile	539	8.88%	10.25%
	2	Second decile	543	8.94%	10.32%
	3	Third decile	524	8.63%	9.96%
	4	Fourth decile	504	8.3%	9.58%
	5	Fifth decile	533	8.78%	10.13%
	6	Sixth decile	541	8.91%	10.29%
	7	Seventh decile	504	8.3%	9.58%
	8	Eighth decile	539	8.88%	10.25%
	9	Ninth decile	516	8.5%	9.81%
	10	Tenth decile	517	8.51%	9.83%
		Total	5,260	86.61%	100%
Missing	.	not applicable (no TC result)	813	13.39%	
		Total	813	13.39%	

Valid	Invalid	Minimum	Maximum
5,260	813	1	10

H6HDLDEC - HDL CHOLESTEROL (HDL-C) DECILE -W6

Type	Code
Measurement Unit	Numeric
H6HDLDEC	High-Density Lipoprotein Cholesterol assay results ordered and assigned decile ranks.

			Frequency	% of total	% of valid
Valid	1	First decile	566	9.32%	10.77%
	2	Second decile	594	9.78%	11.3%
	3	Third decile	464	7.64%	8.83%
	4	Fourth decile	620	10.21%	11.79%
	5	Fifth decile	415	6.83%	7.89%
	6	Sixth decile	509	8.38%	9.68%
	7	Seventh decile	543	8.94%	10.33%
	8	Eighth decile	558	9.19%	10.61%
	9	Ninth decile	490	8.07%	9.32%
	10	Tenth decile	498	8.2%	9.47%
		Total	5,257	86.56%	100%
Missing	.	not applicable (no HDL-C result)	816	13.44%	

		Total	816	13.44%	
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Valid	Invalid	Minimum	Maximum
5,257	816	1	10

H6TGDEC - TRIGLYCERIDES (TG) DECILE -W6

Type	Code
Measurement Unit	Numeric
H6TGDEC	Triglyceride assay results ordered and assigned decile ranks

			Frequency	% of total	% of valid
Valid	1	First decile	532	8.76%	10.12%
	2	Second decile	567	9.34%	10.79%
	3	Third decile	501	8.25%	9.53%
	4	Fourth decile	524	8.63%	9.97%
	5	Fifth decile	512	8.43%	9.74%
	6	Sixth decile	542	8.92%	10.31%
	7	Seventh decile	532	8.76%	10.12%
	8	Eighth decile	512	8.43%	9.74%
	9	Ninth decile	511	8.41%	9.72%
	10	Tenth decile	524	8.63%	9.97%
		Total	5,257	86.56%	100%
Missing	.	not applicable (no TG result)	816	13.44%	
		Total	816	13.44%	

Valid	Invalid	Minimum	Maximum
5,257	816	1	10

H6LDLDEC - LDL CHOLESTEROL (LDL-C) DECILE -W6

Type	Code
Measurement Unit	Numeric
H6LDLDEC	Low-Density Lipoprotein Cholesterol indirect/direct results ordered and assigned decile ranks.

			Frequency	% of total	% of valid
Valid	1	First decile	536	8.83%	10.22%
	2	Second decile	521	8.58%	9.93%
	3	Third decile	540	8.89%	10.29%
	4	Fourth decile	527	8.68%	10.04%
	5	Fifth decile	506	8.33%	9.64%
	6	Sixth decile	561	9.24%	10.69%
	7	Seventh decile	527	8.68%	10.04%
	8	Eighth decile	509	8.38%	9.7%
	9	Ninth decile	516	8.5%	9.83%
	10	Tenth decile	504	8.3%	9.61%
		Total	5,247	86.4%	100%
Missing	.	not applicable (no LDL-C result)	826	13.6%	

		Total	826	13.6%	
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Valid	Invalid	Minimum	Maximum
5,247	826	1	10

H6NHDEC - NON-HDL CHOLESTEROL (non-HDL-C) DECILE -W6

Type	Code
Measurement Unit	Numeric
H6NHDEC	Non-High-Density Lipoprotein Cholesterol ordered and assigned ranks.

			Frequency	% of total	% of valid
Valid	1	First decile	548	9.02%	10.42%
	2	Second decile	524	8.63%	9.97%
	3	Third decile	519	8.55%	9.87%
	4	Fourth decile	545	8.97%	10.37%
	5	Fifth decile	501	8.25%	9.53%
	6	Sixth decile	566	9.32%	10.77%
	7	Seventh decile	484	7.97%	9.21%
	8	Eighth decile	520	8.56%	9.89%
	9	Ninth decile	542	8.92%	10.31%
	10	Tenth decile	508	8.36%	9.66%
		Total	5,257	86.56%	100%
Missing	.	not applicable (no NHDL-C result)	816	13.44%	
		Total	816	13.44%	

Valid	Invalid	Minimum	Maximum
5,257	816	1	10

H6TCHDEC - TC TO HDL-C RATIO(TC:HDL-C) DECILE-W6

Type	Code
Measurement Unit	Numeric
H6TCHDEC	Total Cholesterol to High-Density Lipoprotein Cholesterol ratio (TC:HDL-C) ordered and assigned ranks.

			Frequency	% of total	% of valid
Valid	1	First decile	533	8.78%	10.14%
	2	Second decile	528	8.69%	10.04%
	3	Third decile	524	8.63%	9.97%
	4	Fourth decile	529	8.71%	10.06%
	5	Fifth decile	525	8.64%	9.99%
	6	Sixth decile	529	8.71%	10.06%
	7	Seventh decile	518	8.53%	9.85%
	8	Eighth decile	520	8.56%	9.89%
	9	Ninth decile	529	8.71%	10.06%
	10	Tenth decile	522	8.6%	9.93%
		Total	5,257	86.56%	100%

Missing	.	not applicable (no TC and/or HDL-C result)	816	13.44%	
		Total	816	13.44%	

Valid	Invalid	Minimum	Maximum
5,257	816	1	10

H6CTC - CLASSIFICATION OF TC (NCEP/ATP III) -W6

Type	Code
Measurement Unit	Numeric
H6CTC	The classification of fasting Total Cholesterol based on NCEP/ATP III guidelines.

			Frequency	% of total	% of valid
Valid	1	Desirable: TC is < 200 mg/dl	2,352	38.73%	44.71%
	2	Borderline high: TC is 200-239 mg/dl	904	14.89%	17.19%
	3	High: TC is >= 240 mg/dl	327	5.38%	6.22%
	4	Non-fasting	1,624	26.74%	30.87%
	5	Fasting status unknown	53	0.87%	1.01%
		Total	5,260	86.61%	100%
Missing	.	not applicable (no TC result)	813	13.39%	
		Total	813	13.39%	

Valid	Invalid	Minimum	Maximum
5,260	813	1	5

H6CHDL - CLASSIFICATION OF HDL-C (NCEP/ATP III)-W6

Type	Code
Measurement Unit	Numeric
H6CHDL	The classification of fasting High-Density Lipoprotein Cholesterol based on NCEP/ATP III guidelines.

			Frequency	% of total	% of valid
Valid	1	Low: HDL-C is < 40 mg/dl	749	12.33%	14.25%
	2	Optimal: HDL-C is 40-59 mg/dl	1,840	30.3%	35%
	3	High: HDL-C is >= 60 mg/dl	993	16.35%	18.89%
	4	Non-fasting	1,623	26.72%	30.87%
	5	Fasting status unknown	52	0.86%	0.99%
		Total	5,257	86.56%	100%
Missing	.	not applicable (no HDL-C result)	816	13.44%	
		Total	816	13.44%	

Valid	Invalid	Minimum	Maximum
5,257	816	1	5

H6C1TG - CLASSIFICATION OF TG (NCEP/ATP III) -W6

Type	Code
Measurement Unit	Numeric
H6C1TG	The classification of fasting Triglycerides based on NCEP/ATP III guidelines.

			Frequency	% of total	% of valid
Valid	1	Normal: TG is < 150 mg/dl	2,745	45.2%	52.22%
	2	Borderline high: TG is 150-199 mg/dl	425	7%	8.08%
	3	High: TG is 200-499 mg/dl	376	6.19%	7.15%
	4	Very high: TG is >= 500 mg/dl	35	0.58%	0.67%
	5	Non-fasting	1,623	26.72%	30.87%
	6	Fasting status unknown	53	0.87%	1.01%
		Total	5,257	86.56%	100%
Missing	.	not applicable (no TG result)	816	13.44%	
		Total	816	13.44%	

Valid	Invalid	Minimum	Maximum
5,257	816	1	6

H6C1LDL - CLASSIFICATION OF LDL-C (NCEP/ATP III)-W6

Type	Code
Measurement Unit	Numeric
H6C1LDL	The classification of fasting Low-Density Lipoprotein Cholesterol based on NCEP/ATP III guidelines.

			Frequency	% of total	% of valid
Valid	1	Optimal: LDL-C is < 100 mg/dl	1,372	22.59%	26.15%
	2	Near optimal: LDL-C is 100-129 mg/dl	1,238	20.39%	23.59%
	3	Borderline high: LDL-C is 130-159 mg/dl	697	11.48%	13.28%
	4	High: LDL-C is 160-189 mg/dl	212	3.49%	4.04%
	5	Very high: LDL-C is >= 190 mg/dl	58	0.96%	1.11%
	6	Non-fasting	1,618	26.64%	30.84%
	7	Fasting status unknown	52	0.86%	0.99%
		Total	5,247	86.4%	100%
Missing	.	not applicable (no LDL-C result)	826	13.6%	
		Total	826	13.6%	

Valid	Invalid	Minimum	Maximum
5,247	826	1	7

H6C2TG - CLASSIFICATION OF TG (AHA/ACC) -W6

Type	Code
Measurement Unit	Numeric

H6C2TG	The classification of Triglycerides based on AHA/ACC guidelines.
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			Frequency	% of total	% of valid
Valid	1	Normal: TG is < 175 mg/dl	4,176	68.76%	79.44%
	2	Moderate hypertriglyceridemia: TG is 175-499 mg/dl	1,016	16.73%	19.33%
	3	Severe hypertriglyceridemia: TG is >= 500 mg/dl	35	0.58%	0.67%
	4	Non-fasting: TG is >= 500 mg/dl	30	0.49%	0.57%
	5	Fasting status unknown: TG is >= 500 mg/dl		0%	0%
		Total	5,257	86.56%	100%
Missing	.	not applicable (no TG result)	816	13.44%	
		Total	816	13.44%	

Valid	Invalid	Minimum	Maximum
5,257	816	1	4

H6C2LDL - CLASSIFICATION OF LDL-C (AHA/ACC) -W6

Type	Code
Measurement Unit	Numeric
H6C2LDL	The classification of Low-Density Lipoprotein Cholesterol based on AHA/ACC guidelines.

			Frequency	% of total	% of valid
Valid	1	Normal: LDL-C is < 160 mg/dl	4,873	80.24%	92.87%
	2	Moderate hypercholesterolemia: LDL-C is 160-189 mg/dl	296	4.87%	5.64%
	3	Severe hypercholesterolemia: LDL-C is >= 190 mg/dl	78	1.28%	1.49%
		Total	5,247	86.4%	100%
Missing	.	not applicable (no LDL-C result)	826	13.6%	
		Total	826	13.6%	

Valid	Invalid	Minimum	Maximum
5,247	826	1	3

H6C_MED2 - FLAG: ANTIHYPERLIPIDEMIC MED USE -W6

Type	Code
Measurement Unit	Numeric
H6C_MED2	FLAG indicating participant took an antihyperlipidemic medication in the past 4 weeks

			Frequency	% of total	% of valid
Valid	0	no	5,387	88.7%	89.66%
	1	yes	621	10.23%	10.34%

		Total	6,008	98.93%	100%
Missing	-9994	exam stopped prior to the medication questions	44	0.72%	
	-9996	refused	9	0.15%	
	-9998	medication could not be classified	1	0.02%	
	-9999	participant reported taking prescription medication(s), but specific medication(s) not reported	11	0.18%	
		Total	65	1.07%	

Valid	Invalid	Minimum	Maximum
6,008	65	0	1

H6CQ47F - CQ47F: EVER DX WITH HIGH CHOLESTEROL/TRIG/LIPIDS -W6

Type	Code
Measurement Unit	Numeric
H6CQ47F	CQ47. Has a doctor, nurse or health care provider ever told you that you have ANY of the following? f. High cholesterol or triglycerides or lipids

			Frequency	% of total	% of valid
Valid	0	no	4,769	78.53%	78.55%
	1	yes	1,302	21.44%	21.45%
		Total	6,071	99.97%	100%
Missing	-9996	refused	2	0.03%	
		Total	2	0.03%	

Valid	Invalid	Minimum	Maximum
6,071	2	0	1

H6HLIPJC - HYPERLIPIDEMIA JOINT CLASSIFICATION -W6

Type	Code
Measurement Unit	Numeric
H6HLIPJC	FLAG indicating participant has EITHER a self-reported history of high cholesterol or triglycerides (H6CQ47F = 1) OR taken an antihyperlipidemic medication in the past 4 weeks (H6C_MED2 = 1) OR has a fasting TG concentration $\geq$ 500 mg/dl (H6C2TG = 3) OR an LDL-C concentration $\geq$ 190 mg/dl (H6C2LDL = 3).

			Frequency	% of total	% of valid
Valid	0	No evidence of hyperlipidemia	4,588	75.55%	75.56%
	1	Evidence of hyperlipidemia	1,484	24.44%	24.44%
		Total	6,072	99.98%	100%
Missing	.	missing on all components of joint classification	1	0.02%	

		Total	1	0.02%	
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Valid	Invalid	Minimum	Maximum
6,072	1	0	1

H6HLPJC4 - HYPERLIPIDEMIA JOINT CLASSIFICATION (WAVE IV) -W6

Type	Code
Measurement Unit	Numeric
H6HLPJC4	FLAG indicating participant has EITHER a self-reported history of high cholesterol or triglycerides (H6CQ47F = 1) OR has taken an antihyperlipidemic medication in the past 4 weeks (H6C_MED2 = 1). This joint classification variable parallels the Wave IV joint classification variable.

			Frequency	% of total	% of valid
Valid	0	No evidence of hyperlipidemia	4,638	76.37%	76.4%
	1	Evidence of hyperlipidemia	1,433	23.6%	23.6%
		Total	6,071	99.97%	100%
Missing	.	missing on all components of joint classification	2	0.03%	
		Total	2	0.03%	

Valid	Invalid	Minimum	Maximum
6,071	2	0	1