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ICPSR 21600

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

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Wave V: Biomarkers, Lipids
Codebook/Questionnaire

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Add Health

The National Longitudinal Study of Adolescent to Adult Health

Wave V Lipids
Public-Use

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Wave V Lipids

Title	Wave V Lipids
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	plipids5.xpt
Case Quantity	1839
Variable Count	26

AID - RESPONDENT IDENTIFIER

Type	Text
Constraints	Maximum Length: 8
AID	Respondent Identifier Number

Valid	Invalid	Minimum	Maximum
1839	0	57101310	99719976

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	193	10.49%	
		Total	193	10.49%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1646	193	62	424	181.33475...	36.955411...

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	180	9.79%	10.94%
	2	Second decile	152	8.27%	9.23%
	3	Third decile	162	8.81%	9.84%
	4	Fourth decile	155	8.43%	9.42%
	5	Fifth decile	166	9.03%	10.09%
	6	Sixth decile	176	9.57%	10.69%
	7	Seventh decile	151	8.21%	9.17%
	8	Eighth decile	172	9.35%	10.45%
	9	Ninth decile	168	9.14%	10.21%
	10	Tenth decile	164	8.92%	9.96%
		Total	1,646	89.51%	100%
Missing	.	not applicable (no TC result)	193	10.49%	
		Total	193	10.49%	

Valid	Invalid	Minimum	Maximum
1646	193	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	193	10.49%	
		Total	193	10.49%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1646	193	18	124	49.497569...	15.036480...

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		181	9.84%	11%
	2	Second decile		162	8.81%	9.84%
	3	Third decile		197	10.71%	11.97%
	4	Fourth decile		141	7.67%	8.57%
	5	Fifth decile		162	8.81%	9.84%
	6	Sixth decile		174	9.46%	10.57%
	7	Seventh decile		154	8.37%	9.36%
	8	Eighth decile		175	9.52%	10.63%
	9	Ninth decile		140	7.61%	8.51%
	10	Tenth decile		160	8.7%	9.72%
		Total		1,646	89.51%	100%
Missing	.	not applicable (no HDL-C result)		193	10.49%	
		Total		193	10.49%	

Valid	Invalid	Minimum	Maximum
1646	193	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	193	10.49%	
		Total	193	10.49%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1646	193	27	1604	127.44471...	92.089253...

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		169	9.19%	10.27%
	2	Second decile		162	8.81%	9.84%
	3	Third decile		180	9.79%	10.94%
	4	Fourth decile		171	9.3%	10.39%
	5	Fifth decile		155	8.43%	9.42%
	6	Sixth decile		168	9.14%	10.21%
	7	Seventh decile		161	8.75%	9.78%
	8	Eighth decile		156	8.48%	9.48%
	9	Ninth decile		169	9.19%	10.27%
	10	Tenth decile		155	8.43%	9.42%
		Total		1,646	89.51%	100%
Missing	.	not applicable (no TG result)		193	10.49%	
		Total		193	10.49%	

Valid	Invalid	Minimum	Maximum
1646	193	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	197	10.71%	
		Total	197	10.71%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1642	197	13	332	106.74116...	32.998873...

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				Frequency	% of total	% of valid
Valid	1	First decile		161	8.75%	9.81%
	2	Second decile		161	8.75%	9.81%
	3	Third decile		174	9.46%	10.6%
	4	Fourth decile		167	9.08%	10.17%
	5	Fifth decile		137	7.45%	8.34%
	6	Sixth decile		180	9.79%	10.96%
	7	Seventh decile		151	8.21%	9.2%
	8	Eighth decile		164	8.92%	9.99%
	9	Ninth decile		179	9.73%	10.9%
	10	Tenth decile		168	9.14%	10.23%
		Total		1,642	89.29%	100%
Missing	.	not applicable (no LDL-C result)		197	10.71%	
		Total		197	10.71%	

Valid	Invalid	Minimum	Maximum
1642	197	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 >= 400 mg/dl, LDL-C was directly measured.

				Frequency	% of total	% of valid
Valid	1	indirect calculation		1618	87.98%	98.54%
	2	directly measured		24	1.31%	1.46%
		Total		1,642	89.29%	100%
Missing	.	not applicable (no LDL-C result)		197	10.71%	
		Total		197	10.71%	

Valid	Invalid	Minimum	Maximum
1642	197	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	193	10.49%	
		Total	193	10.49%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1646	193	20	372	131.83718...	37.757089...

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	158	8.59%	9.6%
	2	Second decile	163	8.86%	9.9%
	3	Third decile	171	9.3%	10.39%
	4	Fourth decile	155	8.43%	9.42%
	5	Fifth decile	187	10.17%	11.36%
	6	Sixth decile	162	8.81%	9.84%
	7	Seventh decile	142	7.72%	8.63%
	8	Eighth decile	181	9.84%	11%
	9	Ninth decile	170	9.24%	10.33%
	10	Tenth decile	157	8.54%	9.54%
		Total	1,646	89.51%	100%
Missing	.	not applicable (no non-HDL-C result)	193	10.49%	
		Total	193	10.49%	

Valid	Invalid	Minimum	Maximum
1646	193	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) | 193 | 10.49% | |
| | | Total | 193 | 10.49% | |

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1646	193	1.4545454...	12.1	3.9620324...	1.3572119...

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	146	7.94%	8.87%
	2	Second decile	163	8.86%	9.9%
	3	Third decile	181	9.84%	11%
	4	Fourth decile	161	8.75%	9.78%
	5	Fifth decile	160	8.7%	9.72%
	6	Sixth decile	173	9.41%	10.51%
	7	Seventh decile	162	8.81%	9.84%
	8	Eighth decile	175	9.52%	10.63%
	9	Ninth decile	164	8.92%	9.96%
	10	Tenth decile	161	8.75%	9.78%
		Total	1,646	89.51%	100%
Missing	.	not applicable (no TC and/or HDL-C result)	193	10.49%	
		Total	193	10.49%	

Valid	Invalid	Minimum	Maximum
1646	193	1	10

H5FASTTM - HOURS SINCE LAST ATE -W5

Type	Numeric (Double)
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)	115	6.25%	
	-999	implausible value < 0 hours	3	0.16%	
	999	implausible value >= 24 hours	12	0.65%	

		Total		130	7.07%	

Valid	Invalid	Minimum	Maximum	Mean	StdDev
1709	130	0	23.8	9.3934289...	5.4579962...

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	649	35.29%	37.98%
	1	yes	1060	57.64%	62.02%
		Total	1,709	92.93%	100%
Missing	.	not applicable (no fasting hours)	130	7.07%	
		Total	130	7.07%	

Valid	Invalid	Minimum	Maximum
1709	130	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	740	40.24%	44.96%
	2	Borderline high: TC is 200-239 mg/dl	214	11.64%	13%
	3	High: TC is >= 240 mg/dl	61	3.32%	3.71%
	4	Non-fasting	617	33.55%	37.48%
	5	Fasting status unknown	14	0.76%	0.85%
		Total	1,646	89.51%	100%
Missing	.	not applicable (no TC result)	193	10.49%	
		Total	193	10.49%	

Valid	Invalid	Minimum	Maximum
1646	193	1	5

H5CHDL - CLASSIFCATION 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	278	15.12%	16.89%
	2	Optimal: HDL-C is 40-59 mg/dl	524	28.49%	31.83%
	3	High: HDL-C is >= 60 mg/dl	213	11.58%	12.94%
	4	Non-fasting	617	33.55%	37.48%
	5	Fasting status unknown	14	0.76%	0.85%
		Total	1,646	89.51%	100%
Missing	.	not applicable (no HDL-C result)	193	10.49%	
		Total	193	10.49%	

Valid	Invalid	Minimum	Maximum
1646	193	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	775	42.14%	47.08%
	2	Borderline high: TG is 150-199 mg/dl	125	6.8%	7.59%
	3	High: TG is 200-499 mg/dl	110	5.98%	6.68%
	4	Very high: TG is >= 500 mg/dl	5	0.27%	0.3%
	5	Non-fasting	617	33.55%	37.48%
	6	Fasting status unknown	14	0.76%	0.85%
		Total	1,646	89.51%	100%
Missing	.	not applicable (no TG result)	193	10.49%	
		Total	193	10.49%	

Valid	Invalid	Minimum	Maximum
1646	193	1	6

H5C1LDL - CLASSIFCATION 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	422	22.95%	25.7%
	2		Near optimal: LDL-C is 100-129 mg/dl	352	19.14%	21.44%
	3		Borderline high: LDL-C is 130-159 mg/dl	181	9.84%	11.02%
	4		High: LDL-C is 160-189 mg/dl	43	2.34%	2.62%
	5		Very high: LDL-C is >= 190 mg/dl	16	0.87%	0.97%
	6		Non-fasting	615	33.44%	37.45%
	7		Fasting status unknown	13	0.71%	0.79%
			Total	1,642	89.29%	100%
Missing	.		not applicable (no LDL-C result)	197	10.71%	
			Total	197	10.71%	

Valid	Invalid	Minimum	Maximum
1642	197	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	1317	71.62%	80.01%
	2	Moderate hypertriglyceridemia: TG is 175-499 mg/dl	317	17.24%	19.26%
	3	Severe hypertriglyceridemia: TG is >= 500 mg/dl	5	0.27%	0.3%
	4	Non-fasting: TG is >= 500 mg/dl	6	0.33%	0.36%
	5	Fasting status unknown: TG is >= 500 mg/dl	1	0.05%	0.06%
		Total	1,646	89.51%	100%
Missing	.	not applicable (no TG result)	193	10.49%	

			Frequency	% of total	% of valid
		Total	193	10.49%	

Valid	Invalid	Minimum	Maximum
1646	193	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	1552	84.39%	94.52%
	2	Moderate hypercholesterolemia: LDL-C is 160-189 mg/dl	68	3.7%	4.14%
	3	Severe hypercholesterolemia: LDL-C is >= 190 mg/dl	22	1.2%	1.34%
		Total	1,642	89.29%	100%
Missing	.	not applicable (no LDL-C result)	197	10.71%	
		Total	197	10.71%	

Valid	Invalid	Minimum	Maximum
1642	197	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	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

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	1730	94.07%	95.95%
	1	yes	73	3.97%	4.05%
		Total	1,803	98.04%	100%
Missing	94	exam stopped prior to the medication questions	5	0.27%	
	96	refused	1	0.05%	
	99	respondent reported taking prescription medication(s), but specific medication(s) not reported	30	1.63%	
		Total	36	1.96%	

Valid	Invalid	Minimum	Maximum
1803	36	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 >= 500 mg/dl (H5C2TG = 3) OR an LDL-C concentration >= 190 mg/dl (H5C2LDL = 3).

			Frequency	% of total	% of valid
Valid	0	no evidence of hyperlipidemia	1540	83.74%	83.74%
	1	evidence of hyperlipidemia	299	16.26%	16.26%
		Total	1,839	100%	100%

Valid	Invalid	Minimum	Maximum
1839	0	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	1558	84.72%	84.72%
	1	evidence of hyperlipidemia	281	15.28%	15.28%
		Total	1,839	100%	100%

Valid	Invalid	Minimum	Maximum
1839	0	0	1