

Linear regression model for high density lipoprotein and body mass index
 : NHANES 1999-2002

The SURVEYREG SUBGROUP Macro

Data Summary

Subpopulation : eligible=1
 Dependent Variable: lbdhdl

Total Observations	21004
Weight Sum: 278652243	
Subpopulation Observations	8495
Weight Sum: 181112209	
Subpopulation Nonmissing Observations	8495
Weight Sum: 181112209	
Subpopulation Missing Observations	0
Weight Sum:	0
Number of Strata	28
Number of PSUs	57
Denominator Degrees of Freedom	29
R-square	0.07725
lbdhdl Mean	51.2541

Test of Model Effects

Subpopulation : eligible=1
 Dependent Variable: lbdhdl

Effect	Num DF	Wald F	Pr > F
Model	1.00	411.06	0.0000
Intercept	1.00	4147.19	0.0000
BMXBMI	1.00	411.06	0.0000

Estimated Regression Coefficients

Subpopulation : eligible=1
 Dependent Variable: lbdhdl

Parameter	Standard
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	Estimate	Error	t Value
Intercept	70.5402	1.0954	64.40
BMXBMI	-0.6887	0.0340	-20.27

(Continued)

Estimated Regression Coefficients

Subpopulation : eligible=1

Dependent Variable: lbdhdl

Parameter	Pr > t	95% Lower Confidence Limit	95% Upper Confidence Limit
Intercept	0.0000	68.2999	72.7804
BMXBMI	0.0000	-0.7582	-0.6192

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Weight Sum:	278652243
Subpopulation Observations	8495
Weight Sum:	181112209
Subpopulation Nonmissing Observations	8495
Weight Sum:	181112209
Subpopulation Missing Observations	0
Weight Sum:	0
Number of Strata	28
Number of PSUs	57
Denominator Degrees of Freedom	29
R-square	0.09006
lbdhdl Mean	51.2541

Test of Model Effects

Subpopulation : eligible=1
 Dependent Variable: lbdhdl

Effect	Num DF	Wald F	Pr > F
Model	1.00	670.46	0.0000
Intercept	1.00	6900.30	0.0000
bmicat	1.00	670.46	0.0000

Estimated Regression Coefficients

Subpopulation : eligible=1
 Dependent Variable: lbdhdl

Parameter	Estimate	Standard Error	t Value
Intercept	67.5297	0.8129	83.07
bmicat	-5.5549	0.2145	-25.89

(Continued)

Estimated Regression Coefficients

Subpopulation : eligible=1
 Dependent Variable: lbdhdl

Parameter	Pr > t	95% Lower Confidence Limit	95% Upper Confidence Limit
Intercept	0.0000	65.8670	69.1923
bmicat	0.0000	-5.9937	-5.1161

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Data Summary

Subpopulation : ridageyr >=20
 Dependent Variable: lbdhdl

Total Observations	21004
Weight Sum: 278652243	
Subpopulation Observations	10291
Weight Sum: 198419259	
Subpopulation Nonmissing Observations	8520
Weight Sum: 181582883	
Subpopulation Missing Observations	1771
Weight Sum: 16836376	
Number of Strata	28
Number of PSUs	57
Denominator Degrees of Freedom	29
R-square	0.09344
lbdhdl Mean	51.23493

Test of Model Effects

Subpopulation : ridageyr >=20
 Dependent Variable: lbdhdl

Effect	Num DF	Wald F	Pr > F
Model	3.00	227.66	0.0000
Intercept	.	.	.
bmicatf	3.00	227.66	0.0000

Estimated Regression Coefficients

Subpopulation : ridageyr >=20
 Dependent Variable: lbdhdl

Parameter	Estimate	Standard Error	t Value
Intercept	57.1564	0.5216	109.58
bmicatf 1	3.2799	1.4137	2.32
bmicatf 2	-7.4932	0.4919	-15.23
bmicatf 3	-11.2266	0.4541	-24.72
bmicatf 4	0.0000	0.0000	.

(Continued)

Estimated Regression Coefficients

Subpopulation : ridageyr >=20

Dependent Variable: lbdhdl

Parameter	Pr > t	95% Lower Confidence Limit	95% Upper Confidence Limit
Intercept	0.0000	56.0897	58.2231
bmicatf 1	0.0276	0.3885	6.1712
bmicatf 2	0.0000	-8.4992	-6.4872
bmicatf 3	0.0000	-12.1552	-10.2979
bmicatf 4	.	.	.

Linear regression model for high density lipoprotein and selected covariates: NHANES 1999-2002

The SURVEYREG SUBGROUP Macro

Data Summary

Subpopulation : ridageyr >= 20

Dependent Variable: lbdhdl

Total Observations	21004
Weight Sum: 278652243	
Subpopulation Observations	10291
Weight Sum: 198419259	
Subpopulation Nonmissing Observations	8495
Weight Sum: 181112209	
Subpopulation Missing Observations	1796
Weight Sum: 17307050	
Number of Strata	28
Number of PSUs	57
Denominator Degrees of Freedom	29
R-square	0.23241
lbdhdl Mean	51.2541

Subpopulation : ridageyr >= 20
 Dependent Variable: lbdhdl

Effect	Num DF	Wald F	Pr > F
Model	13.00	374.72	0.0000
Intercept	.	.	.
sex	1.00	954.86	0.0000
ethn	4.00	32.14	0.0000
RIDAGEYR	1.00	77.94	0.0000
smoker	2.00	8.61	0.0012
DMDEDUC	2.00	15.25	0.0000
bmicatf	3.00	364.45	0.0000

Estimated Regression Coefficients

Subpopulation : ridageyr >= 20
 Dependent Variable: lbdhdl

Parameter	Estimate	Standard Error	t Value
Intercept	46.3097	0.5734	80.77
sex 1	9.9773	0.3229	30.90
sex 2	0.0000	0.0000	.
ethn 1	0.6690	0.5512	1.21
ethn 2	4.9504	0.6551	7.56
ethn 3	-2.2430	0.6598	-3.40
ethn 4	-0.5571	1.1095	-0.50
ethn 5	0.0000	0.0000	.
RIDAGEYR	0.1127	0.0128	8.83
smoker 1	1.2202	0.7060	1.73
smoker 2	2.3333	0.6502	3.59
smoker 3	0.0000	0.0000	.
DMDEDUC 1	-3.0306	0.5535	-5.47
DMDEDUC 2	-1.8546	0.5514	-3.36
DMDEDUC 3	0.0000	0.0000	.
bmicatf 1	2.2983	1.3397	1.72
bmicatf 2	-6.5454	0.4088	-16.01
bmicatf 3	-12.0034	0.3835	-31.30
bmicatf 4	0.0000	0.0000	.

(Continued)

Subpopulation : ridageyr >= 20
 Dependent Variable: lbdhdl

Parameter	Pr > t	95% Lower Confidence Limit	95% Upper Confidence Limit
Intercept	0.0000	45.1370	47.4824
sex 1	0.0000	9.3169	10.6376
sex 2	.	.	.
ethn 1	0.2346	-0.4583	1.7964
ethn 2	0.0000	3.6105	6.2903
ethn 3	0.0020	-3.5925	-0.8935
ethn 4	0.6194	-2.8263	1.7121
ethn 5	.	.	.
RIDAGEYR	0.0000	0.0866	0.1388
smoker 1	0.0945	-0.2236	2.6641
smoker 2	0.0012	1.0034	3.6632
smoker 3	.	.	.
DMDEDUC 1	0.0000	-4.1627	-1.8985
DMDEDUC 2	0.0022	-2.9822	-0.7269
DMDEDUC 3	.	.	.
bmicatf 1	0.0969	-0.4417	5.0382
bmicatf 2	0.0000	-7.3815	-5.7093
bmicatf 3	0.0000	-12.7877	-11.2192
bmicatf 4	.	.	.

Analysis of Estimable Functions

Subpopulation : ridageyr >= 20
 Dependent Variable: lbdhdl

Parameter	Estimate	Standard Error	t Value
Never vs past smoker	-1.1131	0.4137	-2.69

(Continued)

Analysis of Estimable Functions

Subpopulation : ridageyr >= 20
 Dependent Variable: lbdhdl

Parameter	Pr > t	95% Lower Confidence Limit	95% Upper Confidence Limit
Never vs past smoker	0.0117	-1.9592	-0.2670

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Data Summary

Subpopulation : ridageyr >= 20

Dependent Variable: lbdhdl

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Subpopulation Missing Observations	1796
Weight Sum: 17307050	
Number of Strata	28
Number of PSUs	57
Denominator Degrees of Freedom	29
R-square	0.22764
lbdhdl Mean	51.2541

Test of Model Effects

Subpopulation : ridageyr >= 20

Dependent Variable: lbdhdl

Effect	Num DF	Wald F	Pr > F
Model	13.00	243.56	0.0000
Intercept	.	.	.
sex	1.00	849.73	0.0000
ethn	4.00	31.00	0.0000
RIDAGEYR	1.00	66.78	0.0000
BMXBMI	1.00	423.43	0.0000
smoker	2.00	2.95	0.0683
DMDEDUC	2.00	14.50	0.0000

BMXBMI*smoker	2.00	6.52	0.0046
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Estimated Regression Coefficients

Subpopulation : ridageyr >= 20

Dependent Variable: lbdhdl

Parameter	Estimate	Standard Error	t Value
Intercept	66.1820	1.8682	35.42
sex 1	10.4315	0.3579	29.15
sex 2	0.0000	0.0000	.
ethn 1	0.3863	0.5702	0.68
ethn 2	5.2376	0.6753	7.76
ethn 3	-2.5730	0.6645	-3.87
ethn 4	-0.2773	1.0076	-0.28
ethn 5	0.0000	0.0000	.
RIDAGEYR	0.1021	0.0125	8.17
BMXBMI	-0.9186	0.0679	-13.52
smoker 1	-3.1785	2.2737	-1.40
smoker 2	-5.5669	2.3024	-2.42
smoker 3	0.0000	0.0000	.
DMDEDUC 1	-3.1274	0.5839	-5.36
DMDEDUC 2	-1.8890	0.5366	-3.52
DMDEDUC 3	0.0000	0.0000	.
BMXBMI*smoker 1	0.1679	0.0817	2.05
BMXBMI*smoker 2	0.2917	0.0809	3.60
BMXBMI*smoker 3	0.0000	0.0000	.

(Continued)

Estimated Regression Coefficients

Subpopulation : ridageyr >= 20

Dependent Variable: lbdhdl

Parameter	Pr > t	95% Lower Confidence Limit	95% Upper Confidence Limit
Intercept	0.0000	62.3610	70.0030
sex 1	0.0000	9.6996	11.1634
sex 2	.	.	.
ethn 1	0.5035	-0.7799	1.5524
ethn 2	0.0000	3.8566	6.6187

ethn 3		0.0006	-3.9320	-1.2141
ethn 4		0.7851	-2.3382	1.7835
ethn 5		.	.	.
RIDAGEYR		0.0000	0.0766	0.1277
BMXBMI		0.0000	-1.0575	-0.7797
smoker 1		0.1727	-7.8288	1.4719
smoker 2		0.0221	-10.2758	-0.8579
smoker 3		.	.	.
DMDEDUC 1		0.0000	-4.3216	-1.9332
DMDEDUC 2		0.0014	-2.9865	-0.7915
DMDEDUC 3		.	.	.
BMXBMI*smoker 1		0.0490	0.0008	0.3350
BMXBMI*smoker 2		0.0012	0.1262	0.4572
BMXBMI*smoker 3		.	.	.

Analysis of Estimable Functions

Subpopulation : ridageyr >= 20

Dependent Variable: lbdhdl

Parameter	Estimate	Standard Error	t Value
Never vs past smoker	2.3884	2.2973	1.04

(Continued)

Analysis of Estimable Functions

Subpopulation : ridageyr >= 20

Dependent Variable: lbdhdl

Parameter	Pr > t	95% Lower Confidence Limit	95% Upper Confidence Limit
Never vs past smoker	0.3071	-2.3101	7.0869