```
LOGISTIC REGRESSION VARIABLES ASCVD0No1Yes
/METHOD=ENTER ASCVDRisk LpaBiLevel
/CONTRAST (ASCVDRisk)=Indicator(1)
/CONTRAST (LpaBiLevel)=Indicator(1)
/CLASSPLOT
/CASEWISE OUTLIER(2)
/PRINT=GOODFIT SUMMARY CI(95)
/CRITERIA=PIN(0.05) POUT(0.10) ITERATE(20) CUT(0.5).
```

Logistic Regression

Notes

Output Created		17-APR-2023 14:57:05
Comments		
Input	Data	/Users/courtneyhill/Desktop/Dr.Kim/MAIN.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	562
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing
Syntax		LOGISTIC REGRESSION VARIABLES ASCVD0No1Yes /METHOD=ENTER ASCVDRisk LpaBiLevel /CONTRAST (ASCVDRisk)=Indicator(1) /CONTRAST (LpaBiLevel)=Indicator(1) /CLASSPLOT /CASEWISE OUTLIER(2) /PRINT=GOODFIT SUMMARY CI(95) /CRITERIA=PIN(0.05) POUT(0.10) ITERATE(20) CUT(0.5).
Resources	Processor Time	00:00:00.11
	Elapsed Time	00:00:00.00

Case Processing Summary

Unweighted Cases[a]		N	Percent
Selected Cases	Included in Analysis	562	100.0
	Missing Cases	0	.0
	Total	562	100.0
Unselected Cases		0	.0
Total		562	100.0

a. If weight is in effect, see classification table for the total number of cases.

Dependent Variable Encoding

Original Value	Internal Value
No	0
Yes	1

Categorical Variables Codings

			Parameter coding		
		Frequency	(1)	(2)	(3)
ASCVD Risk Level	Low Risk	256	.000	.000	.000
	Borderline Risk	50	1.000	.000	.000
	Intermediate Risk	165	.000	1.000	.000
	High Risk	91	.000	.000	1.000
Lp(a) Bi-Level	negligible, minor	437	.000		
	moderate, high, or very high Lp(a) levels	125	1.000		

Block 0: Beginning Block

Classification Table[a,b]

			Predicted		
			ASCVD		Percentage Correct
	Observed		No	Yes	
Step 0	ASCVD	No	490	0	100.0
		Yes	72	0	.0
	Overall Percentage				87.2

a. Constant is included in the model.

b. The cut value is .500

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)
Step 0	Constant	-1.918	.126	230.872	1	<.001	.147

Variables not in the Equation

			Score	df	Sig.
Step 0	Variables	ASCVD Risk Level	56.614	3	<.001
		ASCVD Risk Level(1)	.388	1	.533
		ASCVD Risk Level(2)	1.815	1	.178
		ASCVD Risk Level(3)	43.914	1	<.001
		Lp(a) Bi-Level(1)	7.437	1	.006
	Overall Statistics		63.726	4	<.001

Block 1: Method = Enter

Omnibus Tests of Model Coefficients

		Chi-square	df	Sig.
Step 1	Step	60.058	4	<.001
	Block	60.058	4	<.001
	Model	60.058	4	<.001

Model Summary

Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	370.192[a]	.101	.189

a. Estimation terminated at iteration number 6 because parameter estimates changed by less than .001.

Hosmer and Lemeshow Test

Step	Chi-square	df	Sig.
1	.027	4	1.000

Contingency Table for Hosmer and Lemeshow Test

		ASCVD = No		ASCVD = Yes		
		Observed	Expected	Observed	Expected	Total
Step 1	1	194	193.760	6	6.240	200
	2	52	52.240	4	3.760	56
	3	35	34.955	3	3.045	38
	4	112	112.082	17	16.918	129
	5	37	36.963	11	11.037	48
	6	60	60.000	31	31.000	91

Classification Table[a]

			Predicted		
			ASCVD		Percentage Correct
	Observed		No	Yes	
Step 1	ASCVD	No	490	0	100.0
		Yes	72	0	.0
	Overall Percentage				87.2

a. The cut value is .500

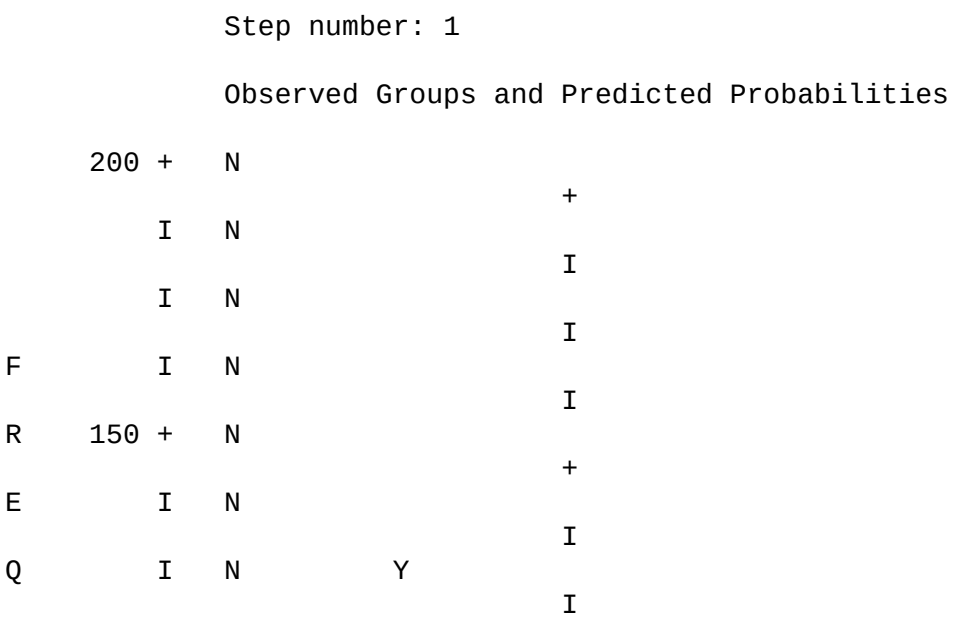
Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)
Step 1[a]	ASCVD Risk Level			44.698	3	<.001	
	ASCVD Risk Level(1)	.995	.574	2.999	1	.083	2.705
	ASCVD Risk Level(2)	1.545	.389	15.759	1	<.001	4.687
	ASCVD Risk Level(3)	2.575	.395	42.511	1	<.001	13.126
	Lp(a) Bi-Level(1)	.804	.292	7.607	1	.006	2.235
	Constant	-3.436	.341	101.628	1	<.001	.032

Variables in the Equation

		95% C.I.for EXP(B)	
		Lower	Upper
Step 1[a]	ASCVD Risk Level		
	ASCVD Risk Level(1)	.877	8.339
	ASCVD Risk Level(2)	2.186	10.050
	ASCVD Risk Level(3)	6.054	28.461
	Lp(a) Bi-Level(1)	1.262	3.959
	Constant		

a. Variable(s) entered on step 1: ASCVD Risk Level, Lp(a) Bi-Level.



```
U        I   N         N
                                 I
E    100 +   N         N
                                 +
N        I   N         N
                                 I
C        I   N         N               Y
                                 I
Y        I   N         N               Y
                                 I
      50 +   N  N      N               N
                                 +
         I   N  N N    N           Y   N
                                 I
         I   N  N N    N           N   N                  Y
                                 I
         I   N  N N    N  N        N   N                  N
                                 I
Predicted ---------+---------+---------+---------+---------+---------+-------
--+---------+---------+----------
  Prob:   0       .1        .2        .3        .4        .5        .6
 .7        .8        .9        1
  Group:  NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNYYYYYYYYYYYYYYYYY
YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY

          Predicted Probability is of Membership for Yes
          The Cut Value is .50
          Symbols: N - No
                   Y - Yes
          Each Symbol Represents 12.5 Cases.
```

Casewise List[b]

Case	Selected Status[a]	Observed ASCVD	Predicted	Predicted Group	Temporary Variable Resid	ZResid	SResid
2	S	Y**	.131	N	.869	2.574	2.022
11	S	Y**	.031	N	.969	5.573	2.638
31	S	Y**	.031	N	.969	5.573	2.638
43	S	Y**	.031	N	.969	5.573	2.638
46	S	Y**	.131	N	.869	2.574	2.022
52	S	Y**	.031	N	.969	5.573	2.638
61	S	Y**	.131	N	.869	2.574	2.022
87	S	Y**	.131	N	.869	2.574	2.022
94	S	Y**	.080	N	.920	3.388	2.267
123	S	Y**	.131	N	.869	2.574	2.022
166	S	Y**	.131	N	.869	2.574	2.022
171	S	Y**	.131	N	.869	2.574	2.022
188	S	Y**	.131	N	.869	2.574	2.022
198	S	Y**	.031	N	.969	5.573	2.638
216	S	Y**	.131	N	.869	2.574	2.022
238	S	Y**	.080	N	.920	3.388	2.267
255	S	Y**	.131	N	.869	2.574	2.022
276	S	Y**	.031	N	.969	5.573	2.638
277	S	Y**	.131	N	.869	2.574	2.022
306	S	Y**	.131	N	.869	2.574	2.022
325	S	Y**	.131	N	.869	2.574	2.022
326	S	Y**	.080	N	.920	3.388	2.267
330	S	Y**	.131	N	.869	2.574	2.022
341	S	Y**	.131	N	.869	2.574	2.022
425	S	Y**	.131	N	.869	2.574	2.022
430	S	Y**	.131	N	.869	2.574	2.022
467	S	Y**	.067	N	.933	3.727	2.334
469	S	Y**	.067	N	.933	3.727	2.334
522	S	Y**	.067	N	.933	3.727	2.334
558	S	Y**	.067	N	.933	3.727	2.334

a. S = Selected, U = Unselected cases, and ** = Misclassified cases.

b. Cases with studentized residuals greater than 2.000 are listed.