

Table 30-6 Logistic Regression Analysis: Risk Factors Associated with Discharge Disposition Following Rehabilitation

```
LOGISTIC REGRESSION VARIABLES Discharge
/METHOD=ENTER ADL Age Marital Gender
/CONTRAST (ADL)=Indicator(1)
/CONTRAST (Marital)=Indicator(1)
/CONTRAST (Gender)=Indicator(1)
/CLASSPLOT
/PRINT=GOODFIT CI(95)
/CRITERIA=PIN(0.05) POUT(0.10) ITERATE(20) CUT(0.5) .
```

Logistic Regression

Run using Regression > Binary Logistic

Case Processing Summary

Unweighted Cases ^a		N	Percent
Selected Cases	Included in Analysis	100	100.0
	Missing Cases	0	.0
	Total	100	100.0
Unselected Cases		0	.0
Total		100	100.0

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

Dependent Variable

Encoding

Original Value	Internal Value
Home	0
LTC	1

Categorical Variables Codings

			Parameter coding (1)
		Frequency	
Gender	Male	50	.000
	Female	50	1.000
Marital	Married	41	.000
	Not Married	59	1.000
ADL	Independent	44	.000
	Limited	56	1.000

Block 0: Beginning Block

Classification Table^{a,b}

			Predicted		
Observed			Discharge		Percentage
			Home	LTC	Correct
Step 0	Discharge	Home	56	0	100.0
		LTC	44	0	.0
	Overall Percentage				56.0

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	-.241	.201	1.433	1	.231	.786

Variables not in the Equation

			Score	df	Sig.
Step 0	Variables	ADL(1)	6.662	1	.010
		Age	13.278	1	.000
		Marital(1)	8.315	1	.004
		Gender(1)	2.597	1	.107
	Overall Statistics		23.891	4	.000

Block 1: Method = Enter

Omnibus Tests of Model Coefficients

		Chi-square	df	Sig.
Step 1	Step	26.855	4	.000
	Block	26.855	4	.000
	Model	26.855	4	.000

Model Summary

Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	110.331 ^a	.236	.316

a. Estimation terminated at iteration number 5 because parameter estimates changed by less than .001.

Hosmer and Lemeshow Test

Step	Chi-square	df	Sig.
1	11.233	8	.189

Contingency Table for Hosmer and Lemeshow Test

		Discharge = Home		Discharge = LTC		Total
		Observed	Expected	Observed	Expected	
Step 1	1	8	9.273	2	.727	10
	2	9	8.330	1	1.670	10
	3	8	6.794	1	2.206	9
	4	5	7.057	5	2.943	10
	5	9	6.380	1	3.620	10
	6	5	5.597	5	4.403	10
	7	6	4.668	4	5.332	10
	8	2	3.985	9	7.015	11
	9	3	2.554	7	7.446	10
	10	1	1.362	9	8.638	10

Classification Table^a

		Predicted		Percentage Correct
		Discharge Home	LTC	
Step 1	Discharge Home	44	12	78.6
	LTC	15	29	65.9
	Overall Percentage			73.0

a. The cut value is .500

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)	95% C.I. for EXP(B)	
								Lower	Upper
Step 1 ^a	ADL(1)	.965	.481	4.031	1	.045	2.625	1.023	6.736
	Age	.117	.037	10.106	1	.001	1.125	1.046	1.209
	Marital(1)	1.019	.480	4.499	1	.034	2.770	1.081	7.103
	Gender(1)	-.592	.474	1.561	1	.212	.553	.218	1.401
	Constant	-10.274	2.935	12.252	1	.000	.000		

a. Variable(s) entered on step 1: ADL, Age, Marital, Gender.

[illegible]

See the Chapter 30 Supplement 2 for explanation of the histogram shown here.