

**Figure 10-4** Logistic Regression Output with One Independent Variable: Iteration History and Omnibus Test of Model Coefficients

Iteration History <sup>a,b,c,d</sup>			
Iteration		-2 Log likelihood	Coefficients
			Constant    educ
Step 1	1	1931.010	-1.426
	2	1917.751	-1.997
	3	1917.633	-2.067
	4	1917.633	-2.068

This final-step “–2 Log likelihood” tells us how well we can predict voting *with* using education as a predictive tool.

a. Method: Enter

b. Constant is included in the model.

c. Initial -2 Log Likelihood: 2065.558

d. Estimation terminated at iteration number 4 because parameter estimates changed by less than .001

This “Initial –2 Log likelihood” tells us how well we can predict voting *without* using education as a predictive tool.

Omnibus Tests of Model Coefficients				
		Chi-square	df	Sig.
Step 1	Step	147.925	1	.000
	Block	147.925	1	.000
	Model	147.925	1	

This Chi-square statistic is the difference between the initial log likelihood and the final-step log likelihood.

Model Summary			
Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	1917.633 <sup>a</sup>	.081	.117

a. Estimation terminated at iteration number 4 because parameter estimates changed by less than .001.