

toxicidade de fenitroton para populacao `SL

Obs	conc	total	mortos	mort	lconc
1	2.5	13	2	0.15385	0.39794
2	2.5	13	3	0.23077	0.39794
3	2.5	13	2	0.15385	0.39794
4	5.0	13	6	0.46154	0.69897
5	5.0	13	5	0.38462	0.69897
6	5.0	13	6	0.46154	0.69897
7	10.0	13	7	0.53846	1.00000
8	10.0	13	7	0.53846	1.00000
9	10.0	13	8	0.61538	1.00000
10	25.0	13	9	0.69231	1.39794
11	25.0	13	9	0.69231	1.39794
12	25.0	13	9	0.69231	1.39794
13	50.0	13	11	0.84615	1.69897
14	50.0	13	11	0.84615	1.69897
15	50.0	13	11	0.84615	1.69897
16	100.0	13	13	1.00000	2.00000
17	100.0	13	13	1.00000	2.00000
18	100.0	13	12	0.92308	2.00000

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The Probit Procedure

Iteration History for Parameter Estimates				
Iter	Ridge	Loglikelihood	Intercept	Log10(conc)
0	0	-162.19644	0	0
1	0	-120.48285	-1.110372466	1.1673342959
2	0	-118.80345	-1.346351746	1.4447138426
3	0	-118.79188	-1.366397735	1.4694751072
4	0	-118.79188	-1.366558913	1.4696774725
5	0	-118.79188	-1.366558913	1.4696774725

Model Information	
Data Set	WORK.UM
Events Variable	mortos
Trials Variable	total
Number of Observations	18
Number of Events	144
Number of Trials	234
Name of Distribution	Normal
Log Likelihood	-118.7918839

Number of Observations Read	18
Number of Observations Used	18
Number of Events	144
Number of Trials	234

Parameter Information	
Parameter	Effect
Intercept	Intercept
conc	conc

Last Evaluation of the Negative of the Gradient	
Intercept	Log10(conc)
-4.553011E-7	-8.813261E-7

Last Evaluation of the Negative of the Hessian		
	Intercept	Log10(conc)
Intercept	114.41760182	123.94223232
Log10(conc)	123.94223232	162.59809418

Algorithm converged.

Goodness-of-Fit Tests				
Statistic	Value	DF	Value/DF	Pr > ChiSq
Pearson Chi-Square	4.6334	16	0.2896	0.9973
L.R. Chi-Square	6.1049	16	0.3816	0.9869

Note: Since the Pearson Chi-Square is small ($p \geq 0.1000$), fiducial limits will be calculated using a z value of .196

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The Probit Procedure

Response-Covariate Profile	
Response Levels	2
Number of Covariate Values	18

Type III Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
Log10(conc)	1	61.2095	<.0001

Analysis of Maximum Likelihood Parameter Estimates							
Parameter	DF	Estimate	Standard Error	95% Confidence Limits		Chi-Square	Pr > ChiSq
Intercept	1	-1.3666	0.2239	-1.8055	-0.9277	37.24	<.0001
Log10(conc)	1	1.4697	0.1879	1.1015	1.8379	61.21	<.0001
C	0	0.0000	0.0000	0.0000	0.0000		

Estimated Covariance Matrix		
	Intercept	Log10(conc)
Intercept	0.050147	-0.038225
Log10(conc)	-0.038225	0.035288

Probit Model in Terms of Tolerance Distribution	
MU	SIGMA
0.92983593	0.6804214

Estimated Covariance Matrix for Tolerance Parameters		
	MU	SIGMA
MU	0.004431	-0.001705
SIGMA	-0.001705	0.007564

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The Probit Procedure

Probit Analysis on Log10(conc)			
Probability	Log10(conc)	95% Fiducial Limits	
0.01	-0.65306	-1.25097	-0.28769
0.02	-0.46758	-1.00549	-0.13736
0.03	-0.34990	-0.85000	-0.04173
0.04	-0.26137	-0.73319	0.03038
0.05	-0.18936	-0.63829	0.08915
0.06	-0.12807	-0.55762	0.13927
0.07	-0.07432	-0.48698	0.18330
0.08	-0.02620	-0.42380	0.22281
0.09	0.01756	-0.36641	0.25881
0.10	0.05784	-0.31365	0.29201
0.15	0.22462	-0.09604	0.43030
0.20	0.35718	0.07565	0.54147
0.25	0.47090	0.22163	0.63816
0.30	0.57302	0.35128	0.72643
0.35	0.66766	0.46976	0.80990
0.40	0.75745	0.58018	0.89110
0.45	0.84433	0.68459	0.97208
0.50	0.92984	0.78441	1.05472
0.55	1.01534	0.88074	1.14085
0.60	1.10222	0.97461	1.23237
0.65	1.19202	1.06728	1.33132
0.70	1.28665	1.16048	1.44006
0.75	1.38877	1.25674	1.56172
0.80	1.50249	1.35985	1.70128
0.85	1.63505	1.47619	1.86780
0.90	1.80183	1.61870	2.08120
0.91	1.84211	1.65266	2.13320
0.92	1.88588	1.68940	2.18984
0.93	1.93400	1.72963	2.25230
0.94	1.98774	1.77438	2.32223
0.95	2.04903	1.82521	2.40219
0.96	2.12104	1.88470	2.49636
0.97	2.20957	1.95754	2.61243
0.98	2.32725	2.05397	2.76713
0.99	2.51273	2.20524	3.01166

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Probit Analysis on conc			
Probability	conc	95% Fiducial Limits	
0.01	0.22230	0.05611	0.51560
0.02	0.34074	0.09874	0.72886
0.03	0.44679	0.14125	0.90839
0.04	0.54781	0.18485	1.07245
0.05	0.64661	0.22999	1.22785
0.06	0.74462	0.27693	1.37806
0.07	0.84271	0.32585	1.52512
0.08	0.94145	0.37688	1.67035
0.09	1.04126	0.43012	1.81471
0.10	1.14246	0.48568	1.95888
0.15	1.67735	0.80161	2.69337
0.20	2.27603	1.19027	3.47916
0.25	2.95732	1.66583	4.34671
0.30	3.74130	2.24535	5.32637
0.35	4.65217	2.94955	6.45504
0.40	5.72075	3.80345	7.78212
0.45	6.98768	4.83716	9.37736
0.50	8.50817	6.08711	11.34268
0.55	10.35950	7.59866	13.83076
0.60	12.65373	9.43209	17.07539
0.65	15.56024	11.67554	21.44483
0.70	19.34859	14.47044	27.54594
0.75	24.47785	18.06090	36.45227
0.80	31.80483	22.90100	50.26652
0.85	43.15662	29.93600	73.75650
0.90	63.36231	41.56217	120.55891
0.91	69.52073	44.94288	135.89334
0.92	76.89121	48.91025	154.82628
0.93	85.90051	53.65739	178.77110
0.94	97.21587	59.48106	210.00436
0.95	111.95140	66.86716	252.45695
0.96	132.14179	76.68335	313.59154
0.97	162.01982	90.68650	409.67045
0.98	212.44701	113.23218	584.96895
0.99	325.63629	160.41415	1027

NOTE: The above quantiles and fiducial limits refer to effects due to the independent variable and do not include any effect due to the natural threshold.

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The REG Procedure

Model: MODEL1

Dependent Variable: mort

Number of Observations Read	18
Number of Observations Used	18

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	1.21178	1.21178	454.48	<.0001
Error	16	0.04266	0.00267		
Corrected Total	17	1.25444			

Root MSE	0.05164	R-Square	0.9660
Dependent Mean	0.61538	Adj R-Sq	0.9639
Coeff Var	8.39092		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.05703	0.02888	1.97	0.0658
Iconc	1	0.46570	0.02184	21.32	<.0001