

toxicidade de fenitroton para populacao `SL

Obs	conc	total	mortos	mort	Iconc
1	0.05	10	1	0.1	-1.30103
2	0.05	10	1	0.1	-1.30103
3	0.05	10	1	0.1	-1.30103
4	0.05	10	1	0.1	-1.30103
5	0.05	10	2	0.2	-1.30103
6	0.50	10	3	0.3	-0.30103
7	0.50	10	3	0.3	-0.30103
8	0.50	10	3	0.3	-0.30103
9	0.50	10	3	0.3	-0.30103
10	0.50	10	3	0.3	-0.30103
11	1.00	10	5	0.5	0.00000
12	1.00	10	5	0.5	0.00000
13	1.00	10	6	0.6	0.00000
14	1.00	10	5	0.5	0.00000
15	1.00	10	6	0.6	0.00000
16	2.50	10	6	0.6	0.39794
17	2.50	10	6	0.6	0.39794
18	2.50	10	7	0.7	0.39794
19	2.50	10	6	0.6	0.39794
20	2.50	10	7	0.7	0.39794
21	5.00	10	8	0.8	0.69897
22	5.00	10	8	0.8	0.69897
23	5.00	10	8	0.8	0.69897
24	5.00	10	8	0.8	0.69897
25	5.00	10	9	0.9	0.69897
26	10.00	10	10	1.0	1.00000
27	10.00	10	10	1.0	1.00000
28	10.00	10	9	0.9	1.00000
29	10.00	10	10	1.0	1.00000
30	10.00	10	10	1.0	1.00000

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The Probit Procedure

Iteration History for Parameter Estimates				
Iter	Ridge	Loglikelihood	Intercept	Log10(conc)
0	0	-207.94415	0	0
1	0	-151.58751	0.0889754792	0.9473545799
2	0	-149.41429	0.0847791389	1.1894446873
3	0	-149.39926	0.0822811353	1.211979426
4	0	-149.39926	0.0822482254	1.2121738375
5	0	-149.39926	0.0822482254	1.2121738375

Model Information	
Data Set	WORK.UM
Events Variable	mortos
Trials Variable	total
Number of Observations	30
Number of Events	170
Number of Trials	300
Name of Distribution	Normal
Log Likelihood	-149.3992587

Number of Observations Read	30
Number of Observations Used	30
Number of Events	170
Number of Trials	300

Parameter Information	
Parameter	Effect
Intercept	Intercept
conc	conc

Last Evaluation of the Negative of the Gradient	
Intercept	Log10(conc)
2.3672604E-7	-8.275793E-7

Last Evaluation of the Negative of the Hessian		
	Intercept	Log10(conc)
Intercept	144.437967	13.708634043
Log10(conc)	13.708634043	59.135482556

Algorithm converged.

Goodness-of-Fit Tests				
Statistic	Value	DF	Value/DF	Pr > ChiSq
Pearson Chi-Square	12.4240	28	0.4437	0.9951
L.R. Chi-Square	15.3373	28	0.5478	0.9747

Note: Since the Pearson Chi-Square is small ($p > 0.1000$), fiducial limits will be calculated using a z value of 1.96

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The Probit Procedure

Response-Covariate Profile	
Response Levels	2
Number of Covariate Values	30

Type III Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
Log10(conc)	1	84.9799	<.0001

Analysis of Maximum Likelihood Parameter Estimates						
Parameter	DF	Estimate	Standard Error	95% Confidence Limits	Chi-Square	Pr > ChiSq
Intercept	1	0.0822	0.0841	-0.0827 0.2472	0.96	0.3283
Log10(conc)	1	1.2122	0.1315	0.9544 1.4699	84.98	<.0001
C	0	0.0000	0.0000	0.0000 0.0000		

Estimated Covariance Matrix		
	Intercept	Log10(conc)
Intercept	0.007079	-0.001641
Log10(conc)	-0.001641	0.017291

Probit Model in Terms of Tolerance Distribution		
	MU	SIGMA
	-0.0678518	0.82496418

Estimated Covariance Matrix for Tolerance Parameters		
	MU	SIGMA
MU	0.005024	-0.001580
SIGMA	-0.001580	0.008009

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Probit Analysis on Log10(conc)			
Probability	Log10(conc)	95% Fiducial Limits	
0.01	-1.98701	-2.56919	-1.60196
0.02	-1.76212	-2.28588	-1.41420
0.03	-1.61944	-2.10642	-1.29478
0.04	-1.51211	-1.97161	-1.20477
0.05	-1.42480	-1.86209	-1.13140
0.06	-1.35048	-1.76899	-1.06884
0.07	-1.28533	-1.68745	-1.01389
0.08	-1.22699	-1.61454	-0.96460
0.09	-1.17393	-1.54830	-0.91969
0.10	-1.12509	-1.48741	-0.87828
0.15	-0.92287	-1.23624	-0.70587
0.20	-0.76216	-1.03807	-0.56740
0.25	-0.62428	-0.86953	-0.44713
0.30	-0.50046	-0.71979	-0.33751
0.35	-0.38573	-0.58287	-0.23409
0.40	-0.27685	-0.45511	-0.13380
0.45	-0.17152	-0.33406	-0.03421
0.50	-0.06785	-0.21793	0.06682
0.55	0.03581	-0.10530	0.17133
0.60	0.14115	0.00527	0.28141
0.65	0.25002	0.11542	0.39932
0.70	0.36476	0.22731	0.52776
0.75	0.48858	0.34399	0.67044
0.80	0.62646	0.47005	0.83319
0.85	0.78717	0.61326	1.02663
0.90	0.98938	0.78959	1.27387
0.91	1.03822	0.83172	1.33404
0.92	1.09128	0.87733	1.39958
0.93	1.14962	0.92731	1.47180
0.94	1.21478	0.98294	1.55266
0.95	1.28909	1.04618	1.64508
0.96	1.37640	1.12023	1.75391
0.97	1.48374	1.21096	1.88802
0.98	1.62642	1.33115	2.06671
0.99	1.85130	1.51982	2.34910

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Probit Analysis on conc			
Probability	conc	95% Fiducial Limits	
0.01	0.01030	0.00270	0.02501
0.02	0.01729	0.00518	0.03853
0.03	0.02402	0.00783	0.05072
0.04	0.03075	0.01068	0.06241
0.05	0.03760	0.01374	0.07389
0.06	0.04462	0.01702	0.08534
0.07	0.05184	0.02054	0.09685
0.08	0.05929	0.02429	0.10849
0.09	0.06700	0.02829	0.12031
0.10	0.07497	0.03255	0.13235
0.15	0.11943	0.05804	0.19685
0.20	0.17292	0.09161	0.27077
0.25	0.23753	0.13504	0.35716
0.30	0.31589	0.19064	0.45971
0.35	0.41141	0.26129	0.58332
0.40	0.52862	0.35066	0.73485
0.45	0.67372	0.46339	0.92425
0.50	0.85536	0.60543	1.16632
0.55	1.08596	0.78470	1.48364
0.60	1.38405	1.01221	1.91165
0.65	1.77838	1.30442	2.50795
0.70	2.31611	1.68775	3.37103
0.75	3.08019	2.20797	4.68208
0.80	4.23112	2.95157	6.81068
0.85	6.12588	4.10445	10.63240
0.90	9.75848	6.16019	18.78742
0.91	10.92001	6.78773	21.57956
0.92	12.33905	7.53935	25.09432
0.93	14.11312	8.45887	29.63489
0.94	16.39762	9.61487	35.69912
0.95	19.45779	11.12195	44.16538
0.96	23.79038	13.18961	56.74326
0.97	30.46039	16.25406	77.27087
0.98	42.30751	21.43612	116.60192
0.99	71.00711	33.09924	223.40693

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	30
Number of Observations Used	30

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2.42068	2.42068	364.44	<.0001
Error	28	0.18598	0.00664		
Corrected Total	29	2.60667			

Root MSE	0.08150	R-Square	0.9287
Dependent Mean	0.56667	Adj R-Sq	0.9261
Coeff Var	14.38233		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	0.53550	0.01497	35.77	<.0001
Iconc	1	0.37794	0.01980	19.09	<.0001