

SPSS output

Males

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	LNSTERN, LNSKULL, LNLEN, LNTIBIO, LNHEAD, LNCBRTWT, LNEXT, LNHUMER, LNFEMUR ^a	.	Enter

- a. All requested variables entered.
 b. Dependent Variable: relative fitness

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.676 ^a	.457	.394	.6596

- a. Predictors: (Constant), LNSTERN, LNSKULL, LNLEN, LNTIBIO, LNHEAD, LNCBRTWT, LNEXT, LNHUMER, LNFEMUR

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	28.206	9	3.134	7.203	.000 ^a
	Residual	33.502	77	.435		
	Total	61.709	86			

- a. Predictors: (Constant), LNSTERN, LNSKULL, LNLEN, LNTIBIO, LNHEAD, LNCBRTWT, LNEXT, LNHUMER, LNFEMUR
 b. Dependent Variable: relative fitness

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	116.767	40.940		2.852	.006
	LNLEN	-25.881	5.016	-.611	-5.160	.000
	LNEXT	5.397	7.127	.114	.757	.451
	LNCBRTWT	-15.015	5.153	-.321	-2.914	.005
	LNHEAD	2.470	4.518	.060	.547	.586
	LNHUMER	5.126	5.237	.194	.979	.331
	LNFEEMUR	3.473	5.059	.137	.686	.494
	LNTIBIO	-.487	3.512	-.021	-.139	.890
	LNSKULL	5.759	3.585	.162	1.607	.112
	LNSTERN	3.934	2.086	.195	1.886	.063

a. Dependent Variable: relative fitness

Females

Variables Entered/Removed^b

Model	Variables Entered	Variables Removed	Method
1	LNSTERN, LNTIBIO, LNCBRTWT, LNLEN, LNSKULL, LNEXT, LNHEAD, LNFEMUR, LNHUMER ^a	.	Enter

a. All requested variables entered.

b. Dependent Variable: relative fitness

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.455 ^a	.207	.024	1.1509

a. Predictors: (Constant), LNSTERN, LNTIBIO, LNCBRTWT, LNLEN, LNSKULL, LNEXT, LNHEAD, LNFEMUR, LNHUMER

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	13.493	9	1.499	1.132	.364 ^a
	Residual	51.654	39	1.324		
	Total	65.147	48			

a. Predictors: (Constant), LNSTERN, LNTIBIO, LNCBRTWT, LNLEN, LNSKULL, LNEXT, LNHEAD, LNFEMUR, LNHUMER

b. Dependent Variable: relative fitness

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	106.974	77.059		1.388	.173
	LNLEN	-9.201	12.262	-.182	-.750	.458
	LNEXT	-6.767	15.084	-.122	-.449	.656
	LNCBRTWT	-28.054	13.350	-.455	-2.102	.042
	LNHEAD	2.437	12.792	.053	.191	.850
	LNHUMER	10.696	12.027	.281	.889	.379
	LNFEMUR	-4.927	10.184	-.149	-.484	.631
	LNTIBIO	11.807	9.654	.366	1.223	.229
	LNSKULL	-.723	9.695	-.017	-.075	.941
	LNSTERN	3.557	4.984	.145	.714	.480

a. Dependent Variable: relative fitness

Multiple Logistic Regression for Males

Total number of cases: 87 (Unweighted)
 Number of selected cases: 87
 Number of unselected cases: 0

Number of selected cases: 87
 Number rejected because of missing data: 0
 Number of cases included in the analysis: 87

Dependent Variable Encoding:

Original Value	Internal Value
.00	0
1.71	1

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Dependent Variable.. RELFITN relative fitness
 Beginning Block Number 0. Initial Log Likelihood Function
 -2 Log Likelihood 118.00843
 * Constant is included in the model.

Beginning Block Number 1. Method: Enter

Variable(s) Entered on Step Number
 1.. LNLEN
 LNEXT
 LNCBRTWT
 LNHEAD
 LNHUMER
 LNFEMUR
 LNTIBIO
 LNSKULL
 LNSTERN

Estimation terminated at iteration number 5 because
 Log Likelihood decreased by less than .01 percent.

-2 Log Likelihood 65.432
 Goodness of Fit 64.669
 Cox & Snell - R^2 .454
 Nagelkerke - R^2 .611

	Chi-Square	df	Significance
Model	52.577	9	.0000
Block	52.577	9	.0000
Step	52.577	9	.0000

Classification Table for RELFITN
 The Cut Value is .50

Observed		Predicted		Percent Correct
		.00	1.71	
		1	2	
.00	1	I 26	I 10	72.22%
1.71	2	I 8	I 43	84.31%
Overall				79.31%

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----- Variables in the Equation -----

Variable	B	S.E.	Wald	df	Sig	R	Exp(B)
LNLEN	-121.508	31.4040	14.9707	1	.0001	-.3315	.0000
LNEXT	23.9620	31.7505	.5696	1	.4504	.0000	2.550E+10
LNCBRTWT	-67.4379	25.9017	6.7788	1	.0092	-.2012	.0000
LNHEAD	17.4697	19.1313	.8338	1	.3612	.0000	38635082
LNHUMER	23.3579	24.7035	.8940	1	.3444	.0000	1.394E+10
LNFEMUR	18.5441	25.7978	.5167	1	.4722	.0000	113131248
LNTIBIO	-3.1706	16.4708	.0371	1	.8474	.0000	.0420
LNSKULL	18.0801	16.4901	1.2021	1	.2729	.0000	71134077
LNSTERN	19.8307	10.4105	3.6285	1	.0568	.1175	409611415
Constant	524.5375	203.9017	6.6178	1	.0101		

1 new variables have been created.
 Name Contents

PRE_1 Predicted Value

Multiple Logistic regression for females_

Total number of cases: 49 (Unweighted)
 Number of selected cases: 49
 Number of unselected cases: 0

Number of selected cases: 49
 Number rejected because of missing data: 0
 Number of cases included in the analysis: 49

Dependent Variable Encoding:

Original Value	Internal Value
.00	0
2.33	1

Dependent Variable.. RELFITN relative fitness
 Beginning Block Number 0. Initial Log Likelihood Function
 -2 Log Likelihood 66.924994
 * Constant is included in the model.

Beginning Block Number 1. Method: Enter

Variable(s) Entered on Step Number
 1.. LNLLEN
 LNEXT
 LNCBRTWT
 LNHEAD
 LNHUMER
 LNFEMUR
 LNTIBIO
 LNSKULL
 LNSTERN

Estimation terminated at iteration number 4 because
 Log Likelihood decreased by less than .01 percent.

-2 Log Likelihood	55.485
Goodness of Fit	47.268
Cox & Snell - R ²	.208
Nagelkerke - R ²	.280

	Chi-Square	df	Significance
Model	11.440	9	.2467
Block	11.440	9	.2467
Step	11.440	9	.2467

Classification Table for RELFITN
 The Cut Value is .50

Observed		Predicted		Percent Correct
		.00	2.33	
		1	2	
.00	1	I 21 I	7 I	75.00%

2.33 2 I 7 I 14 I 66.67%
 +-----+-----+
 Overall 71.43%

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----- Variables in the Equation -----

Variable	B	S.E.	Wald	df	Sig	R	Exp(B)
LNLEN	-20.4115	24.9469	.6694	1	.4132	.0000	.0000
LNEXT	-19.0459	29.7772	.4091	1	.5224	.0000	.0000
LNCBRTWT	-62.6328	29.5997	4.4774	1	.0343	-.1924	.0000
LNHEAD	7.2090	27.6665	.0679	1	.7944	.0000	1351.5478
LNHUMER	24.2841	24.1747	1.0091	1	.3151	.0000	3.519E+10
LNFEMUR	-11.5560	21.3205	.2938	1	.5878	.0000	.0000
LNTIBIO	26.1397	20.1948	1.6754	1	.1955	.0000	2.251E+11
LNSKULL	-1.7833	19.1566	.0087	1	.9258	.0000	.1681
LNSTERN	8.6216	10.8693	.6292	1	.4277	.0000	5550.3983
Constant	251.0660	168.0229	2.2327	1	.1351		

1 new variables have been created.

Name	Contents
PRE_2	Predicted Value