Model Information						
Data Set	WORK.Q1					
Response Variable	ca					
Number of Response Levels	2					
Frequency Variable	count					
Model	binary logit					
Optimization Technique	Fisher's scoring					

Number of Observations Read	12
Number of Observations Used	12
Sum of Frequencies Read	850
Sum of Frequencies Used	850

	Response Profile						
	Ordered Value	са	Total Frequency				
,	1	0	350				
	2	1	500				

Probability modeled is ca=1.

			_		
Class Level Information					
Class	Design Variable	s			
res	0	0			
	1	1			
stress	0	0	0		
	1	1	0		
	2	0	1		

Model Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Deviance and Pearson Goodness-of-Fit Statistics							
Criterion	Pr > ChiSq						
Deviance	2.7580	2	1.3790	0.2518			
Pearson	2.7493	2	1.3747	0.2529			

Number of unique profiles: 6

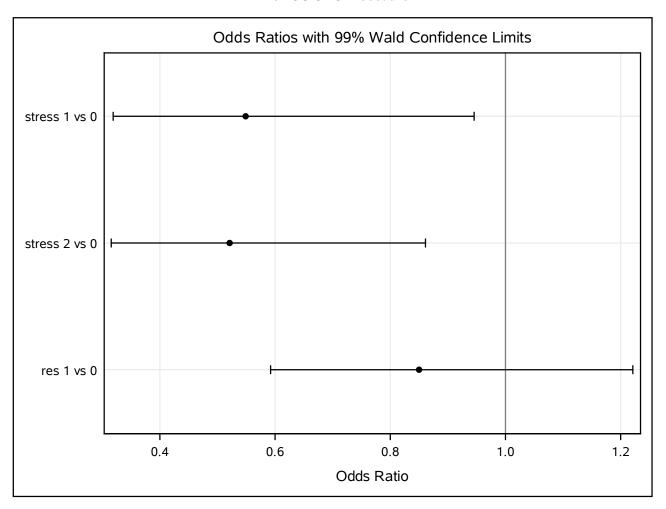
Model Fit Statistics						
Criterion	Intercept Only	Intercept and Covariates				
AIC	1153.740	1146.263				
SC	1158.486	1165.244				
-2 Log L	1151.740	1138.263				

Testing Global Null Hypothesis: BETA=0							
Test	Chi-Square	DF	Pr > ChiSq				
Likelihood Ratio	13.4772	3	0.0037				
Score	13.1006	3	0.0044				
Wald	12.8398	3	0.0050				

Type 3 Analysis of Effects							
Wald							
Effect	DF	Chi-Square	Pr > ChiSq				
stress	2	11.6773	0.0029				
res	1	1.3253	0.2496				

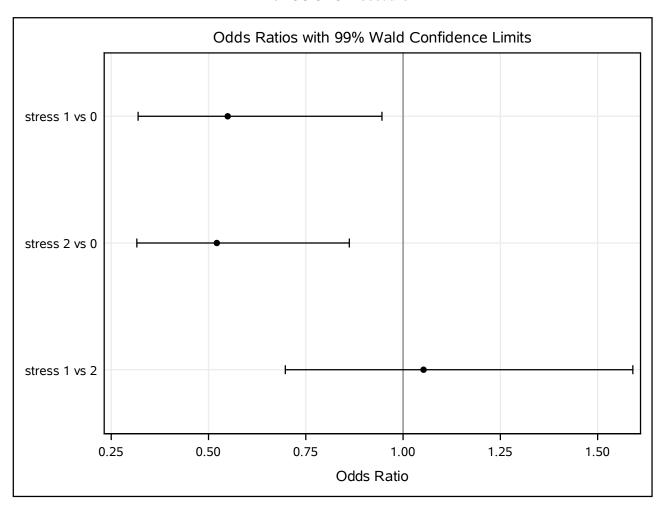
Analysis of Maximum Likelihood Estimates						
Standard Wald Parameter DF Estimate Error Chi-Square Pr > ChiS						Pr > ChiSq
Intercept		1	0.9496	0.1838	26.7023	<.0001
stress	1	1	-0.5983	0.2110	8.0433	0.0046
stress	2	1	-0.6505	0.1948	11.1476	0.0008
res	1	1	-0.1618	0.1405	1.3253	0.2496

Odds Ratio Estimates						
Point 99% Wald Effect Estimate Confidence Limits						
stress 1 vs 0	0.550	0.319	0.947			
stress 2 vs 0	0.522	0.316	0.862			
res 1 vs 0	0.851	0.592	1.222			

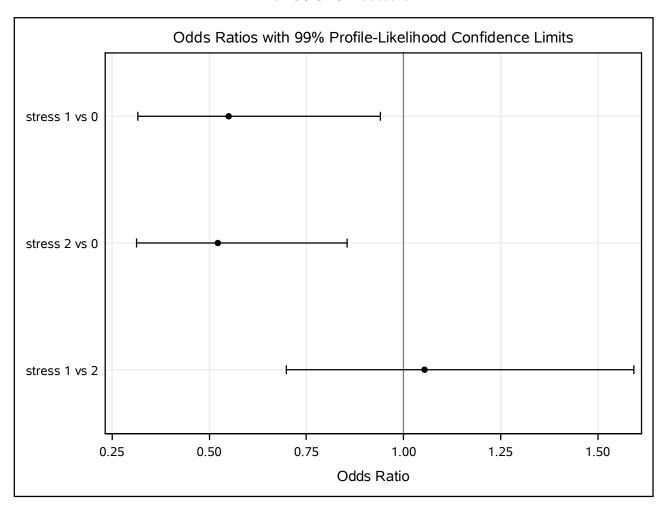


Association of Predicted Probabilities and Observed Responses							
Percent Concordant	46.3	Somers' D	0.117				
Percent Discordant	34.6	Gamma	0.144				
Percent Tied	19.1	Tau-a	0.057				
Pairs	175000	С	0.558				

Odds Ratio Estimates and Wald Confidence Intervals						
Odds Ratio	Estimate	99% Confiden	ce Limits			
stress 1 vs 0	0.550	0.319	0.947			
stress 2 vs 0	0.522	0.316	0.862			
stress 1 vs 2	1.054	0.698	1.591			



Odds Ratio Estimates and Profile-Likelihood Confidence Intervals					
Odds Ratio	Estimate	99% Confider	nce Limits		
stress 1 vs 0	0.550	0.316	0.941		
stress 2 vs 0	0.522	0.312	0.855		
stress 1 vs 2	1.054	0.698	1.593		



Parameter Estimates and Wald Confidence Intervals

Parameter		Estimate	99% Confidence Limits	
Intercept		0.9496	0.4762	1.4229
stress	1	-0.5983	-1.1417	-0.0549
stress	2	-0.6505	-1.1524	-0.1487
res	1	-0.1618	-0.5238	0.2002

Model Information						
Data Set	WORK.Q1					
Response Variable	ca					
Number of Response Levels	2					
Frequency Variable	count					
Model	binary logit					
Optimization Technique	Fisher's scoring					

Number of Observations Read	12
Number of Observations Used	12
Sum of Frequencies Read	850
Sum of Frequencies Used	850

Response Profile						
Ordered	ca	Total Frequency				
	0	350				
2	1	500				

Probability modeled is ca=1.

Class Level Information					
Class	Value	Desig Variab	n les		
res	0	-1			
	1	1			
stress	0	-1	-1		
	1	1	0		
	2	0	1		

Model Convergence Status

Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics					
Criterion	Intercept Only	Intercept and Covariates			
AIC	1153.740	1146.263			
SC	1158.486	1165.244			
-2 Log L	1151.740	1138.263			

The LOGISTIC Procedure

Testing Global Null Hypothesis: BETA=0					
Test	Chi-Square	DF	Pr > ChiSq		
Likelihood Ratio	13.4772	3	0.0037		
Score	13.1006	3	0.0044		
Wald	12.8398	3	0.0050		

Type 3 Analysis of Effects					
Wald					
Effect	DF	Chi-Square	Pr > ChiSq		
res	1	1.3253	0.2496		
stress	2	11.6773	0.0029		

Analysis of Maximum Likelihood Estimates						
Standard Wald Parameter DF Estimate Error Chi-Square Pr > ChiS					Pr > ChiSq	
Intercept		1	0.4524	0.0775	34.1135	<.0001
res	1	1	-0.0809	0.0703	1.3253	0.2496
stress	1	1	-0.1820	0.1066	2.9179	0.0876
stress	2	1	-0.2343	0.0958	5.9818	0.0145

Odds Ratio Estimates					
Point 95% Wald Effect Estimate Confidence Limits					
res 1 vs 0	0.851	0.646	1.120		
stress 1 vs 0	0.550	0.364	0.831		
stress 2 vs 0	0.522	0.356	0.764		

Association of Predicted Probabilities and Observed Responses					
Percent Concordant	46.3	Somers' D	0.117		
Percent Discordant	34.6	Gamma	0.144		
Percent Tied	19.1	Tau-a	0.057		
Pairs	175000	С	0.558		

Obs	res	stress	ca	count	_LEVEL_	prob
1	0	0	0	20	1	0.72103
2	0	0	1	64	1	0.72103
3	0	1	0	50	1	0.58693
4	0	1	1	76	1	0.58693
5	0	2	0	100	1	0.57421
6	0	2	1	122	1	0.57421
7	1	0	0	30	1	0.68736
8	1	0	1	55	1	0.68736
9	1	1	0	60	1	0.54724
10	1	1	1	68	1	0.54724
11	1	2	0	90	1	0.53427
12	1	2	1	115	1	0.53427

Model Information				
Data Set	WORK.Q3_CAT			
Response Variable	ca			
Number of Response Levels	2			
Frequency Variable	count			
Model	binary logit			
Optimization Technique	Fisher's scoring			

Number of Observations Read	6
Number of Observations Used	6
Sum of Frequencies Read	180
Sum of Frequencies Used	180

Response Profile				
Ordered		Total		
Value	ca	Frequency		
1	0	93		
2	1	87		

Probability modeled is ca=1.

Class Level Information Class Value Design Variables dose dose1 0 0 dose10 1 0 dose100 0 1

Model Convergence Status

Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics					
Criterion	Intercept Only	Intercept and Covariates			
AIC	251.333	237.759			
SC	254.526	247.338			
-2 Log L	249.333	231.759			

Testing Global Null Hypothesis: BETA=0				
Test	Chi-Square	DF	Pr > ChiSq	
Likelihood Ratio	17.5742	2	0.0002	
Score	17.2191	2	0.0002	
Wald	16.3228	2	0.0003	

Type 3 Analysis of Effects

Wald
Effect DF Chi-Square Pr > ChiSq

dose 2 16.3228 0.0003

Analysis of Maximum Likelihood Estimates							
Standard Wald Parameter DF Estimate Error Chi-Square Pr > ChiS							
Intercept		1	-0.6190	0.2707	5.2308	0.0222	
dose	dose10	1	0.2136	0.3778	0.3196	0.5718	
dose	dose100	1	1.4663	0.3907	14.0877	0.0002	

Odds Ratio Estimates					
Point 95% Wald Effect Estimate Confidence Li					
dose dose10 vs dose1	1.238	0.590	2.596		
dose dose100 vs dose1	4.333	2.015	9.319		

Association of Predicted Probabilities and Observed Responses					
Percent Concordant	50.5	Somers' D	0.311		
Percent Discordant	19.4	Gamma	0.446		
Percent Tied	30.1	Tau-a	0.156		
Pairs	8091	С	0.656		

Model Information				
Data Set	WORK.Q3_CONT1			
Response Variable	ca			
Number of Response Levels	2			
Frequency Variable	count			
Model	binary logit			
Optimization Technique	Fisher's scoring			

Number of Observations Read	6
Number of Observations Used	6
Sum of Frequencies Read	180
Sum of Frequencies Used	180

	Response Profile					
	Ordered Value	ca	Total Frequency			
•		0	93			
	2	1	87			

Probability modeled is ca=1.

Model Convergence Status

Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics			
Criterion	Intercept Only	Intercept and Covariates	
AIC	251.333	238.299	
SC	254.526	244.685	
-2 Log L	249.333	234.299	

Testing Global Null Hypothesis: BETA=0					
Test	Chi-Square	DF	Pr > ChiSq		
Likelihood Ratio	15.0337	1	0.0001		
Score	14.7164	1	0.0001		
Wald	14.0704	1	0.0002		

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq	
Intercept	1	-0.8042	0.2520	10.1834	0.0014	
doselog	1	0.7316	0.1950	14.0704	0.0002	

Odds Ratio Estimates				
Effect	Point Estimate	95% Wald Confidence Limi		
doselog	2.078	1.418	3.046	

Association of Predicted Probabilities and Observed Responses					
Percent Concordant	50.5	Somers' D	0.311		
Percent Discordant	19.4	Gamma	0.446		
Percent Tied	30.1	Tau-a	0.156		
Pairs	8091	С	0.656		