

Poisson Regression closed cases= sumprodhrs epcount toches avgnetphrs**The GENMOD Procedure**

Model Information	
Data Set	WORK.TEST
Distribution	Poisson
Link Function	Log
Dependent Variable	CC

Number of Observations Read	52
Number of Observations Used	52

Class Level Information		
Class	Value	Design Variables
JOBCODE	CAS	0
	RNA	1

Parameter Information		
Parameter	Effect	JOBCODE
Prm1	Intercept	
Prm2	JOBCODE	RNA
Prm3	NOOF	
Prm4	ANP	
Prm5	ANP*JOBCODE	RNA

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	47	634.6640	13.5035
Scaled Deviance	47	634.6640	13.5035
Pearson Chi-Square	47	638.7360	13.5901
Scaled Pearson X2	47	638.7360	13.5901
Log Likelihood		61987.2925	
Full Log Likelihood		-508.4027	
AIC (smaller is better)		1026.8053	
AICC (smaller is better)		1028.1097	
BIC (smaller is better)		1036.5615	

Algorithm converged.

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Analysis Of Maximum Likelihood Parameter Estimates								
Parameter		DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
Intercept		1	4.7316	0.1363	4.4644	4.9988	1204.53	<.0001
JOBCODE	RNA	1	-1.5369	0.1165	-1.7653	-1.3086	174.05	<.0001
NOOF		1	0.0364	0.0084	0.0199	0.0528	18.75	<.0001
ANP		1	0.1686	0.0410	0.0882	0.2490	16.90	<.0001
ANP*JOBCODE	RNA	1	1.9200	0.1013	1.7215	2.1186	359.29	<.0001
Scale		0	1.0000	0.0000	1.0000	1.0000		

Note: The scale parameter was held fixed.

LR Statistics For Joint Tests			
Source	DF	Chi-Square	Pr > ChiSq
JOBCODE	1	176.25	<.0001
NOOF	1	18.56	<.0001
ANP	1	17.03	<.0001
ANP*JOBCODE	1	380.30	<.0001

Note: Under full-rank parameterizations, Type 3 effect tests are replaced by joint tests. The joint test for an effect is a test that all the parameters associated with that effect are zero. Such joint tests might not be equivalent to Type 3 effect tests under GLM parameterization.

Contrast Estimate Results										
Label	Mean Estimate	Mean		L'Beta Estimate	Standard Error	Alpha	L'Beta		Chi-Square	Pr > ChiSq
		Confidence Limits	Confidence Limits				Confidence Limits	Confidence Limits		
Effect of 10 employees	1.4384	1.2202	1.6957	0.3635	0.0839	0.05	0.1990	0.5281	18.75	<.0001
Effect of 1 employee	1.0370	1.0201	1.0542	0.0364	0.0084	0.05	0.0199	0.0528	18.75	<.0001
Effect of 0.5 average touches per hour	1.0880	1.0451	1.1326	0.0843	0.0205	0.05	0.0441	0.1245	16.90	<.0001

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Model Information	
Data Set	WORK.TEST
Distribution	Negative Binomial
Link Function	Log
Dependent Variable	CC

Number of Observations Read	52
Number of Observations Used	52

Class Level Information		
Class	Value	Design Variables
JOBCODE	CAS	0
	RNA	1

Parameter Information		
Parameter	Effect	JOBCODE
Prm1	Intercept	
Prm2	JOBCODE	RNA
Prm3	NOOF	
Prm4	ANP	
Prm5	ANP*JOBCODE	RNA

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	47	52.3631	1.1141
Scaled Deviance	47	52.3631	1.1141
Pearson Chi-Square	47	52.1350	1.1093
Scaled Pearson X2	47	52.1350	1.1093
Log Likelihood		62213.6109	
Full Log Likelihood		-282.0843	
AIC (smaller is better)		576.1686	
AICC (smaller is better)		578.0353	
BIC (smaller is better)		587.8761	

Algorithm converged.

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The GENMOD Procedure

Analysis Of Maximum Likelihood Parameter Estimates								
Parameter		DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
Intercept		1	4.6988	0.4868	3.7446	5.6529	93.16	<.0001
JOBCODE	RNA	1	-1.6042	0.3933	-2.3750	-0.8334	16.64	<.0001
NOOF		1	0.0370	0.0306	-0.0229	0.0969	1.47	0.2260
ANP		1	0.1809	0.1502	-0.1134	0.4753	1.45	0.2284
ANP*JOBCODE	RNA	1	2.0126	0.3322	1.3615	2.6637	36.71	<.0001
Dispersion		1	0.0444	0.0094	0.0292	0.0673		

Note: The negative binomial dispersion parameter was estimated by maximum likelihood.

LR Statistics For Joint Tests			
Source	DF	Chi-Square	Pr > ChiSq
JOBCODE	1	14.48	0.0001
NOOF	1	1.46	0.2267
ANP	1	1.42	0.2327
ANP*JOBCODE	1	27.34	<.0001

Note: Under full-rank parameterizations, Type 3 effect tests are replaced by joint tests. The joint test for an effect is a test that all the parameters associated with that effect are zero. Such joint tests might not be equivalent to Type 3 effect tests under GLM parameterization.

Contrast Estimate Results										
Label	Mean Estimate	Mean		L'Beta Estimate	Standard Error	Alpha	L'Beta		Chi-Square	Pr > ChiSq
		Confidence Limits					Confidence Limits			
Effect of 10 employees	1.4479	0.7953	2.6362	0.3701	0.3057	0.05	-0.2291	0.9693	1.47	0.2260
Effect of 1 employee	1.0377	0.9774	1.1018	0.0370	0.0306	0.05	-0.0229	0.0969	1.47	0.2260
Effect of 0.5 average touches per hour	1.0947	0.9449	1.2682	0.0905	0.0751	0.05	-0.0567	0.2376	1.45	0.2284