The GENMOD Procedure

Model Information	
Data Set	MYDATA.EARINFECTION
Distribution	Negative Binomial
Link Function	Log
Dependent Variable	Infections

Number of Observations Read	287
Number of Observations Used	287

Class Level Information		
Class	**Levels**	**Values**
Swimmer	2	Freq Occas
Location	2	Beach NonBeach
Gender	2	Female Male

Criteria For Assessing Goodness Of Fit			
Criterion	**DF**	**Value**	**Value/DF**
Deviance	282	268.6917	0.9528
Scaled Deviance	282	268.6917	0.9528
Pearson Chi-Square	282	284.3559	1.0084
Scaled Pearson X2	282	284.3559	1.0084
Log Likelihood		-115.3547	
Full Log Likelihood		-445.9403	
AIC (smaller is better)		903.8807	
AICC (smaller is better)		904.1807	
BIC (smaller is better)		925.8376	

Algorithm converged.

Analysis Of Maximum Likelihood Parameter Estimates					Wald 95% Confidence Limits			
Parameter		**DF**	**Estimate**	**Standard Error**			**Wald Chi-Square**	**Pr > ChiSq**
Intercept		1	1.4874	0.4811	0.5445	2.4303	9.56	0.0020
Swimmer	Freq	1	-0.6177	0.1911	-0.9922	-0.2431	10.45	0.0012
Swimmer	Occas	0	0.0000	0.0000	0.0000	0.0000	.	.
Location	Beach	1	-0.4888	0.1976	-0.8761	-0.1016	6.12	0.0133
Location	NonBeach	0	0.0000	0.0000	0.0000	0.0000	.	.
Age		1	-0.0346	0.0218	-0.0774	0.0082	2.51	0.1132
Gender	Female	1	0.0888	0.2081	-0.3190	0.4966	0.18	0.6695

Analysis Of Maximum Likelihood Parameter Estimates								
Parameter		DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
Gender	Male	0	0.0000	0.0000	0.0000	0.0000	.	.
Dispersion		1	1.7570	0.2740	1.2942	2.3851		

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

LR Statistics For Type 3 Analysis			
Source	DF	Chi-Square	Pr > ChiSq
Swimmer	1	10.16	0.0014
Location	1	6.02	0.0141
Age	1	2.49	0.1147
Gender	1	0.18	0.6689