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The SAS System

The GLIMMIX Procedure

Model Information				
Data Set	WORK.Y06_2YR			
Response Variable (Events)	dmg_now			
Response Variable (Trials)	tot_nuts			
Response Distribution	Binomial			
Link Function	Logit			
Variance Function	Default			
Variance Matrix	Not blocked			
Estimation Technique	Residual PL			
Degrees of Freedom Method	Kenward-Roger			
Fixed Effects SE Adjustment	Kenward-Roger			

Class Level Information					
Class Levels Values					
Year	2	2006 2007			
Tier	8	123478910			
treatment	3	C CMD MD			

Number of Observations Read	16
Number of Observations Used	16
Number of Events	1347
Number of Trials	135524

Dimensions				
G-side Cov. Parameters	3			
Columns in X	4			
Columns in Z	26			
Subjects (Blocks in V)	1			
Max Obs per Subject	16			

Optimization Information					
Optimization Technique Dual Quasi-Newton					
Parameters in Optimization	3				
Lower Boundaries	3				

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Upper Boundaries	0
Fixed Effects	Profiled
Starting From	Data

	Iteration History							
Iteration	Restarts	Subiterations	Objective Function	Change	Max Gradient			
0	0	5	22.039864332	0.01368619	4.158E-6			
1	0	4	22.05249808	0.00060503	7.119E-8			
2	0	2	22.052606981	0.00000513	6.014E-7			
3	0	0	22.052607587	0.00000000	1.499E-6			

Convergence criterion (PCONV=1.11022E-8) satisfied.

Fit Statistics				
-2 Res Log Pseudo-Likelihood	22.05			
Generalized Chi-Square	12.90			
Gener. Chi-Square / DF	0.99			

Covariance Parameter Estimates						
Cov Parm Estimate Err						
Year	0.5263	0.7687				
Tier	0.06173	0.08582				
Year*Tier	0.1070	0.06719				

Type III Tests of Fixed Effects						
Effect Num DF Den DF F Value Pr > F						
treatment	2	7.052	6.59	0.0243		

treatment Least Squares Means							
treatment Estimate Standard Error DF t Value Pr >							
С	-4.6976	0.5401	1.136	-8.70	0.0560		
CMD	-5.9503	0.6027	1.609	-9.87	0.0198		
MD	-4.6370	0.5698	1.411	-8.14	0.0372		

Differences of treatment Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer SAS Output Page 3 of 3

treatment	_treatment	Estimate	Standard Error	DF	t Value	Pr > t	Adj P
С	CMD	1.2526	0.3642	11.4	3.44	0.0053	0.0134
С	MD	-0.06065	0.3006	5.046	-0.20	0.8480	0.9779
CMD	MD	-1.3133	0.4010	7.376	-3.27	0.0126	0.0301

Tukey-Kramer Grouping for treatment Least Squares Means (Alpha=0.05) LS-means with the same letter are not significantly different.		
MD	-4.6370	Α
		Α
С	-4.6976	Α
CMD	-5.9503	В