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The SAS System

The GLIMMIX Procedure

Model Information					
Data Set WORK.ALM_NOME					
Response Variable	Total				
Response Distribution	Negative Binomial				
Link Function	Log				
Variance Function	Default				
Variance Matrix	Not blocked				
Estimation Technique	Residual PL				
Degrees of Freedom Method	Containment				

Class Level Information						
Class	Class Levels Values					
Treatment	5	NowBiolure Ppo PpoCombo StopNow StopNowCombo				
Rep	8	12345678				

Number of Observations Read	40
Number of Observations Used	40

Dimensions				
G-side Cov. Parameters	1			
R-side Cov. Parameters	1			
Columns in X	6			
Columns in Z	8			
Subjects (Blocks in V)	1			
Max Obs per Subject	40			

Optimization Information						
Optimization Technique Dual Quasi-Newton						
Parameters in Optimization	2					
Lower Boundaries	2					
Upper Boundaries	0					
Fixed Effects	Profiled					
Starting From	Data					

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Iteration History							
Iteration	Restarts	Subiterations	Objective Function	Change	Max Gradient		
0	0	4	21.837627518	0.07658920	0.000137		
1	0	6	19.863559303	0.06427546	0.00012		
2	0	4	19.888482144	0.00347956	6.025E-7		
3	0	3	19.892045667	0.00070042	1.835E-7		
4	0	3	19.892785527	0.00015827	0.002606		
5	1	2	19.892933542	0.00001535	0.000795		
6	0	3	19.892968907	0.00000210	0.000063		
7	0	2	19.892973696	0.0000361	0.000329		
8	0	3	19.892973889	0.0000009	0.000301		
9	0	3	19.892973072	0.00000092	0.000197		
10	1	2	19.892972933	0.0000015	0.000186		
11	0	1	19.892973115	0.0000097	0.000083		
12	0	2	19.892973007	0.00000134	0.000048		
13	0	1	19.892973018	0.0000003	0.000039		
14	1	2	19.892973319	0.00000041	0.000026		
15	0	1	19.89297337	0.0000001	0.000024		

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

Fit Statistics					
-2 Res Log Pseudo-Likelihood	19.89				
Generalized Chi-Square	34.54				
Gener. Chi-Square / DF	0.99				

Covariance Parameter Estimates						
Cov Parm	Standard Error					
Rep	0.007507	0.01240				
Scale	0.06448	0.01906				

Type III Tests of Fixed Effects							
Effect	Num DF	Den DF	F Value	Pr > F			
Treatment	4	28	66.30	<.0001			

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Treatment Least Squares Means							
Treatment Estimate Standard Error DF t Value Pr >							
NowBiolure	5.0281	0.09909	28	50.74	<.0001		
Ppo	5.5647	0.09735	28	57.16	<.0001		
PpoCombo	6.0993	0.09633	28	63.32	<.0001		
StopNow	3.9593	0.1067	28	37.11	<.0001		
StopNowCombo	5.3865	0.09783	28	55.06	<.0001		

	Differences of Treatment Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
Treatment	_Treatment	Estimate	Standard Error	DF	t Value	Pr > t	Adj P	
NowBiolure	Ppo	-0.5366	0.1320	28	-4.07	0.0004	0.0030	
NowBiolure	PpoCombo	-1.0712	0.1312	28	-8.16	<.0001	<.0001	
NowBiolure	StopNow	1.0687	0.1390	28	7.69	<.0001	<.0001	
NowBiolure	StopNowCombo	-0.3584	0.1323	28	-2.71	0.0114	0.0779	
Ppo	PpoCombo	-0.5346	0.1299	28	-4.11	0.0003	0.0026	
Ppo	StopNow	1.6054	0.1378	28	11.65	<.0001	<.0001	
Рро	StopNowCombo	0.1782	0.1310	28	1.36	0.1848	0.6574	
PpoCombo	StopNow	2.1400	0.1371	28	15.61	<.0001	<.0001	
PpoCombo	StopNowCombo	0.7128	0.1303	28	5.47	<.0001	<.0001	
StopNow	StopNowCombo	-1.4272	0.1381	28	-10.33	<.0001	<.0001	

Tukey-Kramer Grouping for Treatment Least Squares Means (Alpha=0.05)							
LS-means with the same letter are not significantly different.							
Treatment	Estimate						
PpoCombo	6.0993		Α				
Ppo	5.5647		В				
			В				
StopNowCombo	5.3865	С	В				
		С					
NowBiolure	5.0281	С					
StopNow	3.9593		D				

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The SAS System

The GLIMMIX Procedure

Model Information				
Data Set WORK.PI_				
Response Variable	Total			
Response Distribution	Negative Binomial			
Link Function	Log			
Variance Function	Default			
Variance Matrix	Not blocked			
Estimation Technique	Residual PL			
Degrees of Freedom Method	Containment			

Class Level Information					
Class Levels Values					
Treatment	5	NowBiolure Ppo PpoCombo StopNow StopNowCombo			
Rep	8	12345678			

Number of Observations Read	40
Number of Observations Used	40

Dimensions				
G-side Cov. Parameters	1			
R-side Cov. Parameters	1			
Columns in X	6			
Columns in Z	8			
Subjects (Blocks in V)	1			
Max Obs per Subject	40			

Optimization Information						
Optimization Technique Dual Quasi-Newton						
Parameters in Optimization	2					
Lower Boundaries 2						
Upper Boundaries	0					
Fixed Effects Profiled						
Starting From Data						

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Iteration History						
Iteration	Restarts	Subiterations	Objective Function	Change	Max Gradient	
0	0	5	33.806367751	0.12447219	1.605E-6	
1	0	4	33.008568648	0.04369375	0.00008	
2	0	4	33.032326885	0.00111093	0.000011	
3	0	2	33.034740159	0.00012861	2.125E-6	
4	0	2	33.03450669	0.00001130	3.975E-6	
5	0	2	33.034529313	0.00000124	0.000104	
6	0	1	33.034527059	0.0000016	0.000057	
7	1	1	33.034527356	0.00000000	0.000058	
8	0	5	34.865490445	0.23302396	6.944E-6	
9	0	6	31.92519674	0.24378882	0.00071	
10	0	5	33.071669647	0.04356427	4.307E-8	
11	0	3	33.032504439	0.00117848	3.93E-6	
12	0	2	33.034698832	0.00005187	2.525E-6	
13	0	3	33.034508206	0.0000548	0.000045	
14	0	2	33.034528765	0.00000065	0.000039	
15	0	1	33.034527266	0.00000091	0.000061	
16	0	1	33.03452723	0.0000001	0.000058	

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

Fit Statistics				
-2 Res Log Pseudo-Likelihood	33.03			
Generalized Chi-Square	32.31			
Gener. Chi-Square / DF	0.92			

Covariance Parameter Estimates					
Cov Parm	Standard Error				
Rep	0.04127	0.03103			
Scale	0.05408	0.02121			

Type III Tests of Fixed Effects							
Effect	Num DF	Den DF	F Value	Pr > F			
Treatment	4	28	106.96	<.0001			

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Treatment Least Squares Means					
Treatment	Estimate	Standard Error	DF	t Value	Pr > t
NowBiolure	1.5699	0.1943	28	8.08	<.0001
Ppo	4.4017	0.1160	28	37.93	<.0001
PpoCombo	5.1491	0.1125	28	45.78	<.0001
StopNow	3.1768	0.1310	28	24.26	<.0001
StopNowCombo	3.9436	0.1198	28	32.91	<.0001

	Differences of Treatment Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer						
Treatment	_Treatment	Estimate	Standard Error	DF	t Value	Pr > t	Adj P
NowBiolure	Ppo	-2.8318	0.2022	28	-14.00	<.0001	<.0001
NowBiolure	PpoCombo	-3.5792	0.2002	28	-17.88	<.0001	<.0001
NowBiolure	StopNow	-1.6069	0.2111	28	-7.61	<.0001	<.0001
NowBiolure	StopNowCombo	-2.3737	0.2044	28	-11.61	<.0001	<.0001
Ppo	PpoCombo	-0.7474	0.1257	28	-5.95	<.0001	<.0001
Ppo	StopNow	1.2249	0.1425	28	8.60	<.0001	<.0001
Рро	StopNowCombo	0.4581	0.1323	28	3.46	0.0017	0.0138
PpoCombo	StopNow	1.9723	0.1396	28	14.13	<.0001	<.0001
PpoCombo	StopNowCombo	1.2055	0.1292	28	9.33	<.0001	<.0001
StopNow	StopNowCombo	-0.7668	0.1455	28	-5.27	<.0001	0.0001

Tukey-Kramer Grouping for Treatment Least Squares Means (Alpha=0.05)						
	LS-means with the same letter are not significantly different.					
Treatment	Estimate					
PpoCombo	5.1491	Α				
Рро	4.4017	В				
StopNowCombo	3.9436	С				
StopNow	3.1768	D				

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NowBiolure 1.5699 E

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The SAS System

The GLIMMIX Procedure

Model Information				
Data Set	WORK.PI_NOMD			
Response Variable	Total			
Response Distribution	Negative Binomial			
Link Function	Log			
Variance Function	Default			
Variance Matrix	Not blocked			
Estimation Technique	Residual PL			
Degrees of Freedom Method	Containment			

Class Level Information					
Class	Levels	Values			
Treatment	5	NowBiolure Ppo PpoCombo StopNow StopNowCombo			
Rep	8	12345678			

Number of Observations Read	40
Number of Observations Used	40

Dimensions	
G-side Cov. Parameters	1
R-side Cov. Parameters	1
Columns in X	6
Columns in Z	8
Subjects (Blocks in V)	1
Max Obs per Subject	40

Optimization Information					
Optimization Technique Dual Quasi-Newton					
Parameters in Optimization	2				
Lower Boundaries	2				
Upper Boundaries	0				
Fixed Effects	Profiled				
Starting From	Data				

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Iteration History							
Iteration	Restarts	Subiterations	Objective Function	Change	Max Gradient		
0	0	6	27.612268882	0.19813553	0.0053		
1	0	5	25.348308709	0.07273452	0.000244		
2	0	3	25.425041204	0.00230938	0.000032		
3	1	1	25.425714902	0.00030669	0.000266		
4	0	2	25.42618253	0.00003268	1.121E-6		
5	1	1	25.42620283	0.0000390	0.000028		
6	0	2	25.426207815	0.00000067	0.000027		
7	0	1	25.426208612	0.0000015	5.519E-6		
8	0	0	25.426208836	0.00000002	7.926E-6		
9	0	0	25.426208795	0.00000000	7.498E-6		

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

Fit Statistics				
-2 Res Log Pseudo-Likelihood	25.43			
Generalized Chi-Square	35.58			
Gener. Chi-Square / DF	1.02			

Covariance Parameter Estimates						
Cov Parm	Estimate	Standard Error				
Rep	0.01125	0.01506				
Scale	0.07057	0.02152				

Type III Tests of Fixed Effects						
Effect	Num DF	Den DF	F Value	Pr > F		
Treatment	4	28	28.95	<.0001		

Treatment Least Squares Means								
Treatment Estimate Standard Error DF t Value Pr > t								
NowBiolure	4.4007	0.1085	28	40.58	<.0001			
Рро	5.0463	0.1050	28	48.04	<.0001			
PpoCombo	5.4603	0.1037	28	52.64	<.0001			

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StopNow	4.1382	0.1106	28	37.43	<.0001
StopNowCombo	5.0832	0.1049	28	48.46	<.0001

	Differences of Treatment Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer								
Treatment	_Treatment	Estimate	Standard Error	DF	t Value	Pr > t	Adj P		
NowBiolure	Ppo	-0.6456	0.1414	28	-4.57	<.0001	0.0008		
NowBiolure	PpoCombo	-1.0596	0.1404	28	-7.55	<.0001	<.0001		
NowBiolure	StopNow	0.2625	0.1455	28	1.80	0.0820	0.3912		
NowBiolure	StopNowCombo	-0.6824	0.1413	28	-4.83	<.0001	0.0004		
Ppo	PpoCombo	-0.4140	0.1378	28	-3.01	0.0055	0.0407		
Ppo	StopNow	0.9081	0.1430	28	6.35	<.0001	<.0001		
Рро	StopNowCombo	-0.03687	0.1386	28	-0.27	0.7922	0.9988		
PpoCombo	StopNow	1.3221	0.1420	28	9.31	<.0001	<.0001		
PpoCombo	StopNowCombo	0.3771	0.1377	28	2.74	0.0106	0.0730		
StopNow	StopNowCombo	-0.9450	0.1429	28	-6.61	<.0001	<.0001		

Tukey-Kramer Grouping for Treatment Least Squares Means (Alpha=0.05) LS-means with the same letter are not significantly different.			
PpoCombo	5.4603		Α
			Α
StopNowCombo	5.0832	В	Α
		В	
Рро	5.0463	В	
NowBiolure	4.4007		С
			С
StopNow	4.1382		С