The GLIMMIX Procedure

Model Information				
Data Set WORK.BRONCH				
Response Variable	Value			
Response Distribution	Multinomial (ordered)			
Link Function	Cumulative Logit			
Variance Function	Default			
Variance Matrix Blocked By	newID			
Estimation Technique	Maximum Likelihood			
Likelihood Approximation	Gauss-Hermite Quadrature			
Degrees of Freedom Method	Containment			

Class Level Information				
Class Levels Values				
Attribute 6		LLL LLS LUS RLL RML RUL		
rater 2 JW VH		JW VH		

Number of Observations Read	1464
Number of Observations Used	1464

Response Profile				
Ordered Value	Value	Total Frequency		
1	0	492		
2	1	648		
3	2	210		
4	3	114		
The GLIMMIX procedure is modeling the pr	obabilities of levels of Value havin	g lower Ordered Values in the Response Profile table.		

Dimensions				
G-side Cov. Parameters	2			
Columns in X	9			
Columns in Z per Subject	3			
Subjects (Blocks in V)	244			
Max Obs per Subject	6			

Optimization Information				
Optimization Technique Dual Quasi-Newton				
Parameters in Optimization	10			
Lower Boundaries	2			
Upper Boundaries	0			
Fixed Effects Not Profiled				
Starting From	GLM estimates			
Quadrature Points	5			

	Iteration History							
Iteration	Restarts	Objective Evaluations Function Change		Max Gradient				
0	0	4	2996.4522553		407.7365			
1	0	2	2907.8103551	88.64190018	129.7459			
2	0	2	2857.5040028	50.30635225	79.95138			
3	0	2	2804.1747742	53.32922866	29.74264			
4	0	2	2801.3589683	2.81580582	59.65816			
5	0	4	2788.8072604	12.55170790	15.63968			
6	0	3	2782.3708828	6.43637760	13.65866			
7	0	3	2779.9179603	2.45292255	4.033654			
8	0	3	2779.6841733	0.23378704	1.56814			
9	0	3	2779.656343	0.02783023	0.317257			
10	0	3	2779.6546021	0.00174089	0.069287			
11	0	3	2779.6543835	0.00021862	0.07278			
12	0	2	2779.6541205	0.00026301	0.040112			
13	0	3	2779.6540944	0.00002612	0.038659			
14	0	2	2779.6540804	0.00001396	0.036345			

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

Fit Statistics

Fit Statistics				
-2 Log Likelihood 2779.65				
AIC (smaller is better)	2799.65			
AICC (smaller is better)	2799.81			
BIC (smaller is better)	2834.63			
CAIC (smaller is better)	2844.63			
HQIC (smaller is better)	2813.74			

Fit Statistics for Conditional Distribution		
-2 log L(Value r. effects)	2079.07	

Covariance Parameter Estimates					
Cov Parm Subject Estimate Error					
Intercept	newID	4.7881	3.0275		
rater	newID	0.6362	2.9631		

	Solutions for Fixed Effects							
Effect	Value	Attribute	Estimate	Standard Error	DF	t Value	Pr > t	
Intercept	0		-1.4536	0.2133	0	-6.81		
Intercept	1		2.2714	0.2215	0	10.25		
Intercept	2		4.2574	0.2543	0	16.74		
Attribute		LLL	0.8190	0.1981	1213	4.13	<.0001	
Attribute		LLS	-0.6348	0.1919	1213	-3.31	0.0010	
Attribute		LUS	1.9206	0.2150	1213	8.93	<.0001	
Attribute		RLL	0.2446	0.1925	1213	1.27	0.2040	
Attribute		RML	-1.4288	0.1978	1213	-7.22	<.0001	
Attribute		RUL	0					

	Type III Tests of Fixed Effects					
Effect Num DF Den DF F Value Pr > F						
Attribute 5 1213 49.04 <.0001						

Estimates											
Label	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper	Exponentiated Estimate	Exponentiated Lower	Exponentiated Upper
RUL vs. RML	1.4538	0.1999	1213	7.27	<.0001	0.05	1.0617	1.8459	4.2793	2.8912	6.3337
RUL vs. RLL	-1.1016	0.2133	1213	-5.16	<.0001	0.05	-1.5201	-0.6830	0.3323	0.2187	0.5051
RUL vs. LUS	0.5744	0.1972	1213	2.91	0.0036	0.05	0.1875	0.9612	1.7760	1.2063	2.6148
RUL vs. LLS	2.2478	0.2084	1213	10.79	<.0001	0.05	1.8389	2.6567	9.4670	6.2898	14.2491
RUL vs. LLL	0.8190	0.1981	1213	4.13	<.0001	0.05	0.4304	1.2076	2.2682	1.5378	3.3454
RML vs. RLL	-2.5554	0.2200	1213	-11.62	<.0001	0.05	-2.9870	-2.1238	0.07766	0.05044	0.1196
RML vs. LUS	-0.8794	0.1927	1213	-4.56	<.0001	0.05	-1.2575	-0.5014	0.4150	0.2844	0.6057
RML vs. LLS	0.7940	0.1927	1213	4.12	<.0001	0.05	0.4161	1.1720	2.2123	1.5160	3.2284
RML vs. LLL	-0.6348	0.1919	1213	-3.31	0.0010	0.05	-1.0113	-0.2583	0.5300	0.3637	0.7723
RLL vs. LUS	1.6759	0.2132	1213	7.86	<.0001	0.05	1.2577	2.0942	5.3437	3.5172	8.1189
RLL vs. LLS	3.3494	0.2314	1213	14.47	<.0001	0.05	2.8954	3.8034	28.4852	18.0909	44.8519
RLL vs. LLL	1.9206	0.2150	1213	8.93	<.0001	0.05	1.4988	2.3423	6.8247	4.4762	10.4054
LUS vs. LLS	1.6735	0.1994	1213	8.39	<.0001	0.05	1.2822	2.0647	5.3306	3.6045	7.8832
LUS vs. LLL	0.2446	0.1925	1213	1.27	0.2040	0.05	-0.1330	0.6223	1.2771	0.8755	1.8631
LLS vs. LLL	-1.4288	0.1978	1213	-7.22	<.0001	0.05	-1.8169	-1.0407	0.2396	0.1625	0.3532

Significant Pairwise Comparisons for bronch

Comparison	P-Value	Exponentiated Estimate (Odds Ratio)
RUL vs. RML	<.0001	4.2793
RUL vs. RLL	<.0001	0.3323
RUL vs. LUS	0.0036	1.7760
RUL vs. LLS	<.0001	9.4670
RUL vs. LLL	<.0001	2.2682
RML vs. RLL	<.0001	0.0777
RML vs. LUS	<.0001	0.4150
RML vs. LLS	<.0001	2.2123
RML vs. LLL	0.0010	0.5300
RLL vs. LUS	<.0001	5.3437
RLL vs. LLS	<.0001	28.4852

Comparison	P-Value	Exponentiated Estimate (Odds Ratio)
RLL vs. LLL	<.0001	6.8247
LUS vs. LLS	<.0001	5.3306
LLS vs. LLL	<.0001	0.2396