The GLIMMIX Procedure

Model Information	
Data Set	WORK.LN
Response Variable	Value
Response Distribution	Binomial
Link Function	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	RUL RML RLL LUS LLS LLL
rater	2	JW VH

Number of Observations Read	1464
Number of Observations Used	1462

Dimensions	
G-side Cov. Parameters	2
Columns in X	7
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	8
Lower Boundaries	2
Upper Boundaries	0
Fixed Effects	Not Profiled
Starting From	GLM estimates
Quadrature Points	7

Iteration History					
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient
0	0	4	922.49142309	.	92.92416
1	0	2	901.22331801	21.26810508	41.21214
2	0	2	895.11216336	6.11115465	36.57792
3	0	2	885.70330244	9.40886092	12.15128
4	0	2	884.41501123	1.28829121	2.520952
5	0	2	884.10752678	0.30748446	2.188255
6	0	2	883.71317639	0.39435038	2.361757
7	0	3	883.54164431	0.17153208	1.351342
8	0	3	883.47260721	0.06903711	0.311196
9	0	3	883.45898592	0.01362129	0.306929
10	0	3	883.45773564	0.00125028	0.157369
11	0	2	883.4568123	0.00092334	0.154993
12	0	6	883.33970205	0.11711025	77.63456
13	0	23	883.3397019	0.00000015	0.986098
14	0	2	883.3334513	0.00625060	0.85302
15	0	3	883.33062877	0.00282254	0.951817
16	0	3	883.33058779	0.00004098	0.001277
17	0	3	883.33058765	0.00000014	0.000057

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

Fit Statistics	
-2 Log Likelihood	883.33
AIC (smaller is better)	899.33
AICC (smaller is better)	899.43
BIC (smaller is better)	927.31
CAIC (smaller is better)	935.31

Fit Statistics

HQIC (smaller is better)	910.60

Fit Statistics for Conditional Distribution

-2 log L(Value | r. effects)	601.59
Pearson Chi-Square	683.23
Pearson Chi-Square / DF	0.47

Covariance Parameter Estimates

Cov Parm	Subject	Estimate	Standard Error
Intercept	newID	2.9765	0.7247
rater	newID	9.917E-9	.

Solutions for Fixed Effects

Effect	Attribute	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept		-2.3493	0.2692	0	-8.73	.
Attribute	RUL	-0.1675	0.2897	1213	-0.58	0.5632
Attribute	RML	-1.4732	0.3644	1213	-4.04	<.0001
Attribute	RLL	-0.09643	0.2883	1213	-0.33	0.7381
Attribute	LUS	-1.5640	0.3722	1213	-4.20	<.0001
Attribute	LLS	-1.4732	0.3644	1213	-4.04	<.0001
Attribute	LLL	0	.	.	.	.

Type III Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Attribute	5	1213	8.45	<.0001

Attribute Least Squares Means

Attribute	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Mean	Standard Error Mean	Lower Mean	Upper Mean
RUL	-2.5168	0.2783	1213	-9.04	<.0001	0.05	-3.0628	-1.9707	0.07469	0.01924	0.04467	0.1223
RML	-3.8225	0.3730	1213	-10.25	<.0001	0.05	-4.5543	-3.0907	0.02141	0.007814	0.01041	0.04349
RLL	-2.4457	0.2748	1213	-8.90	<.0001	0.05	-2.9848	-1.9066	0.07975	0.02017	0.04812	0.1294
LUS	-3.9132	0.3817	1213	-10.25	<.0001	0.05	-4.6620	-3.1644	0.01958	0.007328	0.009359	0.04053
LLS	-3.8225	0.3730	1213	-10.25	<.0001	0.05	-4.5543	-3.0907	0.02141	0.007814	0.01041	0.04349
LLL	-2.3493	0.2692	1213	-8.73	<.0001	0.05	-2.8773	-1.8212	0.08712	0.02141	0.05329	0.1393

Differences of Attribute Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Attribute	Attribute	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper	Adj Lower	Adj Upper	Odds Ratio	Lower Confidence Limit for Odds Ratio	Upper Confidence Limit for Odds Ratio	Adj Lower Odds Ratio	Adj Upper Odds Ratio
RUL	RML	1.3057	0.3672	1213	3.56	0.0004	0.0052	0.05	0.5853	2.0261	0.2576	2.3538	3.690	1.795	7.585	1.294	10.526
RUL	RLL	-0.07108	0.2935	1213	-0.24	0.8087	0.9999	0.05	-0.6469	0.5047	-0.9087	0.7666	0.931	0.524	1.656	0.403	2.152
RUL	LUS	1.3965	0.3749	1213	3.72	0.0002	0.0028	0.05	0.6609	2.1320	0.3263	2.4666	4.041	1.937	8.432	1.386	11.782
RUL	LLS	1.3057	0.3672	1213	3.56	0.0004	0.0052	0.05	0.5853	2.0261	0.2576	2.3538	3.690	1.795	7.585	1.294	10.526
RUL	LLL	-0.1675	0.2897	1213	-0.58	0.5632	0.9924	0.05	-0.7359	0.4008	-0.9944	0.6593	0.846	0.479	1.493	0.370	1.934
RML	RLL	-1.3768	0.3670	1213	-3.75	0.0002	0.0025	0.05	-2.0967	-0.6568	-2.4242	-0.3294	0.252	0.123	0.518	0.089	0.719
RML	LUS	0.09075	0.4262	1213	0.21	0.8314	0.9999	0.05	-0.7454	0.9269	-1.1257	1.3072	1.095	0.475	2.527	0.324	3.696
RML	LLS	1.157E-9	0.4199	1213	0.00	1.0000	1.0000	0.05	-0.8239	0.8239	-1.1986	1.1986	1.000	0.439	2.279	0.302	3.315
RML	LLL	-1.4732	0.3644	1213	-4.04	<.0001	0.0008	0.05	-2.1881	-0.7583	-2.5132	-0.4332	0.229	0.112	0.468	0.081	0.648
RLL	LUS	1.4675	0.3747	1213	3.92	<.0001	0.0013	0.05	0.7324	2.2027	0.3980	2.5371	4.339	2.080	9.050	1.489	12.643
RLL	LLS	1.3768	0.3670	1213	3.75	0.0002	0.0025	0.05	0.6568	2.0967	0.3294	2.4242	3.962	1.929	8.139	1.390	11.293
RLL	LLL	-0.09643	0.2883	1213	-0.33	0.7381	0.9994	0.05	-0.6620	0.4692	-0.9193	0.7264	0.908	0.516	1.599	0.399	2.068
LUS	LLS	-0.09075	0.4262	1213	-0.21	0.8314	0.9999	0.05	-0.9269	0.7454	-1.3072	1.1257	0.913	0.396	2.107	0.271	3.082
LUS	LLL	-1.5640	0.3722	1213	-4.20	<.0001	0.0004	0.05	-2.2942	-0.8337	-2.6264	-0.5016	0.209	0.101	0.434	0.072	0.606
LLS	LLL	-1.4732	0.3644	1213	-4.04	<.0001	0.0008	0.05	-2.1881	-0.7583	-2.5132	-0.4332	0.229	0.112	0.468	0.081	0.648

Significant Pairwise Comparisons of Lobes for Large Nodules

Obs	Attribute	_Attribute	Estimate	OddsRatio	Adjp
1	RUL	RML	1.3057	3.690	0.0052
2	RUL	LUS	1.3965	4.041	0.0028
3	RUL	LLS	1.3057	3.690	0.0052
4	RML	RLL	-1.3768	0.252	0.0025

Obs	Attribute	_Attribute	Estimate	OddsRatio	Adjp
5	RML	LLL	-1.4732	0.229	0.0008
6	RLL	LUS	1.4675	4.339	0.0013
7	RLL	LLS	1.3768	3.962	0.0025
8	LUS	LLL	-1.5640	0.209	0.0004
9	LLS	LLL	-1.4732	0.229	0.0008

Obs	Attribute	_Attribute	Estimate	OddsRatio	Adjp
5	RML	LLL	-1.4732	0.229	0.0008
6	RLL	LUS	1.4675	4.339	0.0013