

# The SAS System

## The GLM Procedure

Class Level Information		
Class	Levels	Values
seq	6	1 2 3 4 5 6
subject	21	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
period	3	1 2 3
trt	3	1 2 3
carry	4	0 1 2 3

Number of Observations Read	63
Number of Observations Used	63

# The SAS System

## The GLM Procedure

Dependent Variable: auc

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	26	155029503.3	5962673.2	13.69	<.0001
Error	36	15676876.3	435468.8		
Corrected Total	62	170706379.5			

R-Square	Coeff Var	Root MSE	auc Mean
0.908165	18.38048	659.9006	3590.225

Source	DF	Type I SS	Mean Square	F Value	Pr > F
seq	5	32059489.2	6411897.8	14.72	<.0001
subject(seq)	15	111941046.2	7462736.4	17.14	<.0001
period	2	554360.9	277180.5	0.64	0.5350
trt	2	9239256.2	4619628.1	10.61	0.0002
carry	2	1235350.7	617675.4	1.42	0.2553

Source	DF	Type III SS	Mean Square	F Value	Pr > F
seq	5	32309605.5	6461921.1	14.84	<.0001
subject(seq)	15	111941046.2	7462736.4	17.14	<.0001
period	1	553175.3	553175.3	1.27	0.2672
trt	2	8038214.5	4019107.3	9.23	0.0006
carry	2	1235350.7	617675.4	1.42	0.2553

# The SAS System

## The Mixed Procedure

Model Information	
Data Set	WORK.ONE
Dependent Variable	auc
Covariance Structure	Variance Components
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

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trt	3	1 2 3
carry	4	0 1 2 3

Dimensions	
Covariance Parameters	2
Columns in X	17
Columns in Z	21
Subjects	1
Max Obs per Subject	63

Number of Observations	
Number of Observations Read	63
Number of Observations Used	63
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	923.46572542	
1	1	876.90862552	0.00000000

Convergence criteria met.

# The SAS System

## The Mixed Procedure

Covariance Parameter Estimates	
Cov Parm	Estimate
subject(seq)	2342423
Residual	435469

Fit Statistics	
-2 Res Log Likelihood	876.9
AIC (Smaller is Better)	880.9
AICC (Smaller is Better)	881.2
BIC (Smaller is Better)	883.0

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
seq	5	15	0.96	0.4725
period	1	36	1.27	0.2672
trt	2	36	9.23	0.0006
carry	2	36	1.42	0.2553

Least Squares Means						
Effect	trt	Estimate	Standard Error	DF	t Value	Pr >  t
trt	1	Non-est	.	.	.	.
trt	2	Non-est	.	.	.	.
trt	3	Non-est	.	.	.	.

Differences of Least Squares Means									
Effect	trt	_trt	Estimate	Standard Error	DF	t Value	Pr >  t	Adjustment	Adj P
trt	1	2	407.77	229.45	36	1.78	0.0840	Bonferroni	0.2520
trt	1	3	981.15	229.45	36	4.28	0.0001	Bonferroni	0.0004
trt	2	3	573.38	229.45	36	2.50	0.0172	Bonferroni	0.0515