

The Mixed Procedure

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

Class Level Information		
Class	Levels	Values
site	5	1 2 3 4 5
row	3	1 2 3
column	3	1 2 3
treat	3	a b c

Dimensions	
Covariance Parameters	4
Columns in X	4
Columns in Z	35
Subjects	1
Max Obs Per Subject	45

Number of Observations	
Number of Observations Read	45
Number of Observations Used	45
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	417.79291619	
1	1	398.01672455	0.00000000

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Convergence criteria met.

Covariance Parameter Estimates	
Cov Parm	Estimate
row(site)	82.4326
column(site)	52.7159
site	548.30
Residual	403.30

Fit Statistics	
-2 Res Log Likelihood	398.0
AIC (smaller is better)	406.0
AICC (smaller is better)	407.1
BIC (smaller is better)	408.8

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
treat	2	18	464.62	<.0001

Contrasts				
Label	Num DF	Den DF	F Value	Pr > F
control vs. remed.	1	18	928.97	<.0001
remed1 vs. remed 2	1	18	0.28	0.6032

Least Squares Means									
Effect	treat	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper
treat	a	254.79	12.0647	18	21.12	<.0001	0.05	229.45	280.14
treat	b	63.1733	12.0647	18	5.24	<.0001	0.05	37.8264	88.5203
treat	c	59.2933	12.0647	18	4.91	0.0001	0.05	33.9464	84.6403

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Type 3 Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	Expected Mean Square	Error Term	Error DF
treat	2	374768	187384	Var(Residual) + Q(treat)	MS(Residual)	18
row(site)	10	6505.993333	650.599333	Var(Residual) + 3 Var(row(site))	MS(Residual)	18
column(site)	10	5614.493333	561.449333	Var(Residual) + 3 Var(column(site))	MS(Residual)	18
site	4	22974	5743.443000	Var(Residual) + 9 Var(site) + 3 Var(column(site)) + 3 Var(row(site))	MS(row(site)) + MS(column(site)) - MS(Residual)	7.8912
Residual	18	7259.429333	403.301630	Var(Residual)	.	.

Type 3 Analysis of Variance		
Source	F Value	Pr > F
treat	464.62	<.0001
row(site)	1.61	0.1812
column(site)	1.39	0.2598
site	7.10	0.0099
Residual	.	.

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