Obs	ID	Sex	Group	Days	Fatmass	FFM	MuscleGlycogen	COXIV	GIRperkgFFMperinsulin
1	1	1	1	0	43.1473	73.1527	517.538	1.37	2.6919
2	1	1	1	93	44.4567	72.8433	623.147	1.49	6.7656
3	1	1	1	96	44.4567	72.8433	726.587	1.88	6.1666
4	4	0	0	0	39.6760	51.3240	506.638	0.86	5.1617
5	4	0	0	93	38.2872	52.0128	766.439	1.12	6.2406
6	4	0	0	96	38.2448	51.9552	628.304	1.00	4.8547
7	6	1	0	0	49.7871	67.9129	519.121	1.05	4.6351
8	6	1	0	93	48.5135	68.3865	553.229	1.47	4.6936
9	6	1	0	96	49.7170	70.0830	832.371	1.58	4.4599
10	7	0	0	0	44.8836	54.4164	585.228	1.22	13.7358

Obs	TotalAdiponectin	LogTotalAdiponectin
1	2472.66	3.39316
2	1157.65	3.06358
3	1173.18	3.06936
4	1369.91	3.13669
5	1017.86	3.00769
6	1105.87	3.04371
7	1354.38	3.13174
8	795.24	2.90050
9	909.14	2.95863
10	11574.23	4.06349

Obs	ID	Sex	Group	Days	Fatmass	FFM	MuscleGlycogen	COXIV	GIRperkgFFMperinsulin	TotalAdiponectin
1	1	1	1	0	43.1473	73.1527	517.538	1.37	2.6919	2472.66
2	1	1	1	93	44.4567	72.8433	623.147	1.49	6.7656	1157.65
3	1	1	1	96	44.4567	72.8433	726.587	1.88	6.1666	1173.18
4	4	0	0	0	39.6760	51.3240	506.638	0.86	5.1617	1369.91
5	4	0	0	93	38.2872	52.0128	766.439	1.12	6.2406	1017.86
6	4	0	0	96	38.2448	51.9552	628.304	1.00	4.8547	1105.87
7	6	1	0	0	49.7871	67.9129	519.121	1.05	4.6351	1354.38
8	6	1	0	93	48.5135	68.3865	553.229	1.47	4.6936	795.24
9	6	1	0	96	49.7170	70.0830	832.371	1.58	4.4599	909.14
10	7	0	0	0	44.8836	54.4164	585.228	1.22	13.7358	11574.23

Obs	LogTotalAdiponectin	Fatmass_cent	Adiponectin_cent	MuscleGlycogen_cent
1	3.39316	2.4673	-1537.73	-77.868
2	3.06358	3.7767	-2852.75	27.741
3	3.06936	3.7767	-2837.22	131.181
4	3.13669	-1.0040	-2640.48	-88.768
5	3.00769	-2.3928	-2992.53	171.033
6	3.04371	-2.4352	-2904.52	32.898
7	3.13174	9.1071	-2656.01	-76.285
8	2.90050	7.8335	-3215.16	-42.176
9	2.95863	9.0370	-3101.26	236.965
10	4.06349	4.2036	7563.84	-10.177

The Mixed Procedure

Model Information	
Data Set	WORK.EXERCISE_D
Dependent Variable	GIRperkgFFMperinsulin
Covariance Structure	Unstructured
Subject Effects	ID, ID
Estimation Method	REML
Residual Variance Method	None
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

Class Level Information		
Class	**Levels**	**Values**
ID	30	1 10 11 19 21 22 23 24 25 27 29 31 4 40 41 42 43 47 49 53 55 56 6 62 63 64 65 7 8 9
Group	2	0 1
Sex	2	0 1

Dimensions	
Covariance Parameters	7
Columns in X	7
Columns in Z per Subject	1
Subjects	30
Max Obs per Subject	3

Number of Observations	
Number of Observations Read	93
Number of Observations Used	89
Number of Observations Not Used	4

Iteration History			
Iteration	**Evaluations**	**-2 Res Log Like**	**Criterion**
0	1	504.61293029	
1	2	450.13938489	0.00009008
2	1	450.13535799	0.00000010
3	1	450.13535325	0.00000000

Convergence criteria met but final Hessian is not positive definite.

The Mixed Procedure

Estimated R Matrix for ID 1			
Row	Col1	Col2	Col3
1	3.0905	2.7405	-0.2771
2	2.7405	8.3027	2.1599
3	-0.2771	2.1599	3.6192

Estimated R Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.5410	-0.08286
2	0.5410	1.0000	0.3940
3	-0.08286	0.3940	1.0000

Estimated G Matrix			
Row	Effect	ID	Col1
1	Intercept	1	9.0407

Estimated G Correlation Matrix			
Row	Effect	ID	Col1
1	Intercept	1	1.0000

Estimated V Matrix for ID 1			
Row	Col1	Col2	Col3
1	12.1312	11.7812	8.7636
2	11.7812	17.3434	11.2006
3	8.7636	11.2006	12.6599

Estimated V Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.8122	0.7072
2	0.8122	1.0000	0.7559
3	0.7072	0.7559	1.0000

The Mixed Procedure

Covariance Parameter Estimates		
Cov Parm	**Subject**	**Estimate**
UN(1,1)	ID	9.0407
UN(1,1)	ID	3.0905
UN(2,1)	ID	2.7405
UN(2,2)	ID	8.3027
UN(3,1)	ID	-0.2771
UN(3,2)	ID	2.1599
UN(3,3)	ID	3.6192

Fit Statistics	
-2 Res Log Likelihood	450.1
AIC (Smaller is Better)	464.1
AICC (Smaller is Better)	465.6
BIC (Smaller is Better)	473.9

Null Model Likelihood Ratio Test		
DF	**Chi-Square**	**Pr > ChiSq**
6	54.48	<.0001

Solution for Fixed Effects							
Effect	**Group**	**Sex**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex		0	8.3341	0.7963	55	10.47	<.0001
Sex		1	5.4223	0.9633	55	5.63	<.0001
Days			0.01952	0.006408	55	3.05	0.0036
Days*Group	0		-0.00357	0.008333	55	-0.43	0.6699
Days*Group	1		0	.	.	.	.
Fatmass_cent			-0.1333	0.08013	55	-1.66	0.1018
MuscleGlycogen_cent			-0.00393	0.001651	55	-2.38	0.0209

Covariance Matrix for Fixed Effects										
Row	**Effect**	**Group**	**Sex**	**Col1**	**Col2**	**Col3**	**Col4**	**Col5**	**Col6**	**Col7**
1	Sex		0	0.6340	-0.01690	-0.00084	0.000110		-0.01481	0.000080
2	Sex		1	-0.01690	0.9280	-0.00055	0.000060		0.01641	0.000023
3	Days			-0.00084	-0.00055	0.000041	-0.00004		0.000061	-4.75E-6
4	Days*Group	0		0.000110	0.000060	-0.00004	0.000069		-0.00004	2.699E-6

The Mixed Procedure

Covariance Matrix for Fixed Effects										
Row	Effect	Group	Sex	Col1	Col2	Col3	Col4	Col5	Col6	Col7
5	Days*Group	1								
6	Fatmass_cent			-0.01481	0.01641	0.000061	-0.00004		0.006421	-4.95E-6
7	MuscleGlycogen_cent			0.000080	0.000023	-4.75E-6	2.699E-6		-4.95E-6	2.727E-6

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	2	55	71.95	<.0001
Days	1	55	14.27	0.0004
Days*Group	1	55	0.18	0.6699
Fatmass_cent	1	55	2.77	0.1018
MuscleGlycogen_cent	1	55	5.66	0.0209

The Mixed Procedure

Model Information	
Data Set	WORK.EXERCISE_D
Dependent Variable	GIRperkgFFMperinsulin
Covariance Structures	Unstructured, Heterogeneous Autoregressive
Subject Effects	ID, ID
Estimation Method	REML
Residual Variance Method	None
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

Class Level Information		
Class	**Levels**	**Values**
ID	30	1 10 11 19 21 22 23 24 25 27 29 31 4 40 41 42 43 47 49 53 55 56 6 62 63 64 65 7 8 9
Group	2	0 1
Sex	2	0 1

Dimensions	
Covariance Parameters	5
Columns in X	7
Columns in Z per Subject	1
Subjects	30
Max Obs per Subject	3

Number of Observations	
Number of Observations Read	93
Number of Observations Used	89
Number of Observations Not Used	4

Iteration History			
Iteration	**Evaluations**	**-2 Res Log Like**	**Criterion**
0	1	504.61293029	
1	3	451.15469811	0.00260219
2	1	450.69008209	0.00071256
3	1	450.57040829	0.00016094
4	1	450.54367716	0.00000938
5	1	450.54222647	0.00000005
6	1	450.54221890	0.00000000

The Mixed Procedure

Convergence criteria met.

Estimated R Matrix for ID 1

Row	Col1	Col2	Col3
1	5.3104	4.6589	2.2371
2	4.6589	10.6838	5.1300
3	2.2371	5.1300	6.4387

Estimated R Correlation Matrix for ID 1

Row	Col1	Col2	Col3
1	1.0000	0.6185	0.3826
2	0.6185	1.0000	0.6185
3	0.3826	0.6185	1.0000

Estimated G Matrix

Row	Effect	ID	Col1
1	Intercept	1	6.5071

Estimated G Correlation Matrix

Row	Effect	ID	Col1
1	Intercept	1	1.0000

Estimated V Matrix for ID 1

Row	Col1	Col2	Col3
1	11.8175	11.1660	8.7442
2	11.1660	17.1909	11.6371
3	8.7442	11.6371	12.9458

Estimated V Correlation Matrix for ID 1

Row	Col1	Col2	Col3
1	1.0000	0.7834	0.7070
2	0.7834	1.0000	0.7801
3	0.7070	0.7801	1.0000

The Mixed Procedure

Covariance Parameter Estimates		
Cov Parm	**Subject**	**Estimate**
UN(1,1)	ID	6.5071
Var(1)	ID	5.3104
Var(2)	ID	10.6838
Var(3)	ID	6.4387
ARH(1)	ID	0.6185

Fit Statistics	
-2 Res Log Likelihood	450.5
AIC (Smaller is Better)	460.5
AICC (Smaller is Better)	461.3
BIC (Smaller is Better)	467.5

Null Model Likelihood Ratio Test		
DF	**Chi-Square**	**Pr > ChiSq**
4	54.07	<.0001

Solution for Fixed Effects							
Effect	**Group**	**Sex**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex		0	8.3530	0.7977	55	10.47	<.0001
Sex		1	5.4398	0.9640	55	5.64	<.0001
Days			0.01976	0.006783	55	2.91	0.0052
Days*Group	0		-0.00374	0.008822	55	-0.42	0.6733
Days*Group	1		0	.	.	.	.
Fatmass_cent			-0.1389	0.08053	55	-1.72	0.0902
MuscleGlycogen_cent			-0.00429	0.001640	55	-2.62	0.0115

Covariance Matrix for Fixed Effects										
Row	**Effect**	**Group**	**Sex**	**Col1**	**Col2**	**Col3**	**Col4**	**Col5**	**Col6**	**Col7**
1	Sex		0	0.6363	-0.01515	-0.00094	0.000132		-0.01499	0.000103
2	Sex		1	-0.01515	0.9292	-0.00064	0.000077		0.01656	0.000042
3	Days			-0.00094	-0.00064	0.000046	-0.00004		0.000064	-4.97E-6
4	Days*Group	0		0.000132	0.000077	-0.00004	0.000078		-0.00004	2.731E-6
5	Days*Group	1								

The Mixed Procedure

Covariance Matrix for Fixed Effects										
Row	Effect	Group	Sex	Col1	Col2	Col3	Col4	Col5	Col6	Col7
6	Fatmass_cent			-0.01499	0.01656	0.000064	-0.00004		0.006486	-4.68E-6
7	MuscleGlycogen_cent			0.000103	0.000042	-4.97E-6	2.731E-6		-4.68E-6	2.691E-6

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	2	55	71.94	<.0001
Days	1	55	12.86	0.0007
Days*Group	1	55	0.18	0.6733
Fatmass_cent	1	55	2.97	0.0902
MuscleGlycogen_cent	1	55	6.85	0.0115

rand unstrucutred, main ARH(1), Group specific var-cov matrix

The Mixed Procedure

Model Information	
Data Set	WORK.EXERCISE_D
Dependent Variable	GIRperkgFFMperinsulin
Covariance Structures	Unstructured, Heterogeneous Autoregressive
Subject Effects	ID, ID
Group Effect	Group
Estimation Method	REML
Residual Variance Method	None
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

Class Level Information		
Class	**Levels**	**Values**
ID	30	1 10 11 19 21 22 23 24 25 27 29 31 4 40 41 42 43 47 49 53 55 56 6 62 63 64 65 7 8 9
Group	2	0 1
Sex	2	0 1

Dimensions	
Covariance Parameters	6
Columns in X	7
Columns in Z per Subject	2
Subjects	30
Max Obs per Subject	3

Number of Observations	
Number of Observations Read	93
Number of Observations Used	89
Number of Observations Not Used	4

Iteration History			
Iteration	**Evaluations**	**-2 Res Log Like**	**Criterion**
0	1	504.61293029	
1	3	450.62302114	0.00398105
2	1	449.89227610	0.00123059
3	2	449.67044789	0.00032609
4	2	449.61378052	0.00003408

rand unstrucutred, main ARH(1), Group specific var-cov matrix

The Mixed Procedure

Iteration History			
Iteration	**Evaluations**	**-2 Res Log Like**	**Criterion**
5	1	449.60836426	0.00000050
6	1	449.60828940	0.00000000

Convergence criteria met.

Estimated R Matrix for ID 1			
Row	**Col1**	**Col2**	**Col3**
1	6.4521	6.0471	3.0579
2	6.0471	12.4066	6.2736
3	3.0579	6.2736	6.9445

Estimated R Correlation Matrix for ID 1			
Row	**Col1**	**Col2**	**Col3**
1	1.0000	0.6759	0.4568
2	0.6759	1.0000	0.6759
3	0.4568	0.6759	1.0000

Estimated G Matrix					
Row	**Effect**	**ID**	**Group**	**Col1**	**Col2**
1	Intercept	1	0	8.7362	
2	Intercept	1	1		3.1827

Estimated G Correlation Matrix					
Row	**Effect**	**ID**	**Group**	**Col1**	**Col2**
1	Intercept	1	0	1.0000	
2	Intercept	1	1		1.0000

Estimated V Matrix for ID 1			
Row	**Col1**	**Col2**	**Col3**
1	9.6348	9.2298	6.2405
2	9.2298	15.5892	9.4563
3	6.2405	9.4563	10.1271

rand unstrucutred, main ARH(1), Group specific var-cov matrix

The Mixed Procedure

Estimated V Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.7531	0.6318
2	0.7531	1.0000	0.7526
3	0.6318	0.7526	1.0000

Covariance Parameter Estimates			
Cov Parm	Subject	Group	Estimate
UN(1,1)	ID	Group 0	8.7362
UN(1,1)	ID	Group 1	3.1827
Var(1)	ID		6.4521
Var(2)	ID		12.4066
Var(3)	ID		6.9445
ARH(1)	ID		0.6759

Fit Statistics	
-2 Res Log Likelihood	449.6
AIC (Smaller is Better)	461.6
AICC (Smaller is Better)	462.7
BIC (Smaller is Better)	470.0

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
5	55.00	<.0001

Solution for Fixed Effects							
Effect	Group	Sex	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex		0	8.4074	0.7635	55	11.01	<.0001
Sex		1	5.3850	0.9152	55	5.88	<.0001
Days			0.02022	0.006805	55	2.97	0.0044
Days*Group	0		-0.00395	0.008866	55	-0.45	0.6578
Days*Group	1		0	.	.	.	.
Fatmass_cent			-0.1309	0.07895	55	-1.66	0.1029
MuscleGlycogen_cent			-0.00450	0.001620	55	-2.78	0.0074

rand unstrucutred, main ARH(1), Group specific var-cov matrix

The Mixed Procedure

Covariance Matrix for Fixed Effects										
Row	**Effect**	**Group**	**Sex**	**Col1**	**Col2**	**Col3**	**Col4**	**Col5**	**Col6**	**Col7**
1	Sex		0	0.5829	0.002483	-0.00099	0.000392		-0.00938	0.000054
2	Sex		1	0.002483	0.8375	-0.00075	0.000358		0.01451	4.907E-6
3	Days			-0.00099	-0.00075	0.000046	-0.00004		0.000062	-4.89E-6
4	Days*Group	0		0.000392	0.000358	-0.00004	0.000079		-0.00004	2.682E-6
5	Days*Group	1								
6	Fatmass_cent			-0.00938	0.01451	0.000062	-0.00004		0.006233	-4.46E-6
7	MuscleGlycogen_cent			0.000054	4.907E-6	-4.89E-6	2.682E-6		-4.46E-6	2.624E-6

Type 3 Tests of Fixed Effects				
Effect	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Sex	2	55	77.71	<.0001
Days	1	55	13.27	0.0006
Days*Group	1	55	0.20	0.6578
Fatmass_cent	1	55	2.75	0.1029
MuscleGlycogen_cent	1	55	7.73	0.0074

The Mixed Procedure

Model Information	
Data Set	WORK.EXERCISE_D
Dependent Variable	GIRperkgFFMperinsulin
Covariance Structures	Unstructured, Ante-dependence
Subject Effects	ID, ID
Estimation Method	REML
Residual Variance Method	None
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

Class Level Information		
Class	**Levels**	**Values**
ID	30	1 10 11 19 21 22 23 24 25 27 29 31 4 40 41 42 43 47 49 53 55 56 6 62 63 64 65 7 8 9
Group	2	0 1
Sex	2	0 1

Dimensions	
Covariance Parameters	6
Columns in X	7
Columns in Z per Subject	1
Subjects	30
Max Obs per Subject	3

Number of Observations	
Number of Observations Read	93
Number of Observations Used	89
Number of Observations Not Used	4

Iteration History			
Iteration	**Evaluations**	**-2 Res Log Like**	**Criterion**
0	1	504.61293029	
1	3	450.68212006	0.00214018
2	1	450.28892620	0.00070771
3	1	450.16060929	0.00014201
4	1	450.13669854	0.00000863
5	1	450.13535933	0.00000004
6	1	450.13535325	0.00000000

The Mixed Procedure

Convergence criteria met.

Estimated R Matrix for ID 1			
Row	Col1	Col2	Col3
1	5.7207	5.3707	2.3531
2	5.3707	10.9329	4.7901
3	2.3531	4.7901	6.2494

Estimated R Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.6791	0.3935
2	0.6791	1.0000	0.5795
3	0.3935	0.5795	1.0000

Estimated G Matrix			
Row	Effect	ID	Col1
1	Intercept	1	6.4105

Estimated G Correlation Matrix			
Row	Effect	ID	Col1
1	Intercept	1	1.0000

Estimated V Matrix for ID 1			
Row	Col1	Col2	Col3
1	12.1312	11.7812	8.7636
2	11.7812	17.3434	11.2006
3	8.7636	11.2006	12.6599

Estimated V Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.8122	0.7072
2	0.8122	1.0000	0.7559
3	0.7072	0.7559	1.0000

The Mixed Procedure

Covariance Parameter Estimates		
Cov Parm	**Subject**	**Estimate**
UN(1,1)	ID	6.4105
Var(1)	ID	5.7207
Var(2)	ID	10.9329
Var(3)	ID	6.2494
Rho(1)	ID	0.6791
Rho(2)	ID	0.5795

Fit Statistics	
-2 Res Log Likelihood	450.1
AIC (Smaller is Better)	462.1
AICC (Smaller is Better)	463.2
BIC (Smaller is Better)	470.5

Null Model Likelihood Ratio Test		
DF	**Chi-Square**	**Pr > ChiSq**
5	54.48	<.0001

Solution for Fixed Effects							
Effect	**Group**	**Sex**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Sex		0	8.3341	0.7963	55	10.47	<.0001
Sex		1	5.4223	0.9633	55	5.63	<.0001
Days			0.01952	0.006408	55	3.05	0.0036
Days*Group	0		-0.00357	0.008333	55	-0.43	0.6699
Days*Group	1		0	.	.	.	.
Fatmass_cent			-0.1333	0.08013	55	-1.66	0.1018
MuscleGlycogen_cent			-0.00393	0.001651	55	-2.38	0.0209

Covariance Matrix for Fixed Effects										
Row	**Effect**	**Group**	**Sex**	**Col1**	**Col2**	**Col3**	**Col4**	**Col5**	**Col6**	**Col7**
1	Sex		0	0.6340	-0.01690	-0.00084	0.000110		-0.01481	0.000080
2	Sex		1	-0.01690	0.9280	-0.00055	0.000060		0.01641	0.000023
3	Days			-0.00084	-0.00055	0.000041	-0.00004		0.000061	-4.75E-6
4	Days*Group	0		0.000110	0.000060	-0.00004	0.000069		-0.00004	2.699E-6
5	Days*Group	1								

The Mixed Procedure

Covariance Matrix for Fixed Effects										
Row	Effect	Group	Sex	Col1	Col2	Col3	Col4	Col5	Col6	Col7
6	Fatmass_cent			-0.01481	0.01641	0.000061	-0.00004		0.006421	-4.95E-6
7	MuscleGlycogen_cent			0.000080	0.000023	-4.75E-6	2.699E-6		-4.95E-6	2.727E-6

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	2	55	71.95	<.0001
Days	1	55	14.27	0.0004
Days*Group	1	55	0.18	0.6699
Fatmass_cent	1	55	2.77	0.1018
MuscleGlycogen_cent	1	55	5.66	0.0209

The Mixed Procedure

Model Information	
Data Set	WORK.EXERCISE_D
Dependent Variable	GIRperkgFFMperinsulin
Covariance Structures	Unstructured, Heterogeneous Compound Symmetry
Subject Effects	ID, ID
Estimation Method	REML
Residual Variance Method	None
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

Class Level Information		
Class	**Levels**	**Values**
ID	30	1 10 11 19 21 22 23 24 25 27 29 31 4 40 41 42 43 47 49 53 55 56 6 62 63 64 65 7 8 9
Group	2	0 1
Sex	2	0 1

Dimensions	
Covariance Parameters	5
Columns in X	7
Columns in Z per Subject	1
Subjects	30
Max Obs per Subject	3

Number of Observations	
Number of Observations Read	93
Number of Observations Used	89
Number of Observations Not Used	4

Iteration History			
Iteration	**Evaluations**	**-2 Res Log Like**	**Criterion**
0	1	504.61293029	
1	2	457.76835931	0.02190595
2	1	453.76936096	0.00370176
3	1	453.13618305	0.00035871
4	1	453.06603263	0.00033687
5	1	453.00822061	0.00041133
6	1	452.92470320	0.00049931

The Mixed Procedure

Iteration History			
Iteration	**Evaluations**	**-2 Res Log Like**	**Criterion**
7	3	452.87358161	0.00040904
8	1	452.78648209	0.00063577
9	1	452.76455061	0.00159398
10	3	452.32171783	.
11	1	452.26763304	0.00419538
12	3	452.26383283	.
13	1	451.82506046	0.00018261
14	1	451.79620534	0.00000150
15	1	451.79598018	0.00000000

Convergence criteria met.

Estimated R Matrix for ID 1			
Row	**Col1**	**Col2**	**Col3**
1	12.0993	10.7205	9.4393
2	10.7205	16.6529	11.0740
3	9.4393	11.0740	12.9104

Estimated R Correlation Matrix for ID 1			
Row	**Col1**	**Col2**	**Col3**
1	1.0000	0.7552	0.7552
2	0.7552	1.0000	0.7552
3	0.7552	0.7552	1.0000

Estimated G Matrix			
Row	**Effect**	**ID**	**Col1**
1	Intercept	1	

Estimated G Correlation Matrix			
Row	**Effect**	**ID**	**Col1**
1	Intercept	1	1.0000

The Mixed Procedure

Estimated V Matrix for ID 1			
Row	Col1	Col2	Col3
1	12.0993	10.7205	9.4393
2	10.7205	16.6529	11.0740
3	9.4393	11.0740	12.9104

Estimated V Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.7552	0.7552
2	0.7552	1.0000	0.7552
3	0.7552	0.7552	1.0000

Estimated G matrix is not positive definite.

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	ID	0
Var(1)	ID	12.0993
Var(2)	ID	16.6529
Var(3)	ID	12.9104
CSH	ID	0.7552

Fit Statistics	
-2 Res Log Likelihood	451.8
AIC (Smaller is Better)	459.8
AICC (Smaller is Better)	460.3
BIC (Smaller is Better)	465.4

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
3	52.82	<.0001

The Mixed Procedure

Solution for Fixed Effects

Effect	Group	Sex	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex		0	8.4310	0.8286	55	10.17	<.0001
Sex		1	5.5993	0.9991	55	5.60	<.0001
Days			0.01864	0.006698	55	2.78	0.0074
Days*Group	0		-0.00301	0.008349	55	-0.36	0.7200
Days*Group	1		0	.	.	.	.
Fatmass_cent			-0.1573	0.08249	55	-1.91	0.0617
MuscleGlycogen_cent			-0.00436	0.001651	55	-2.64	0.0107

Covariance Matrix for Fixed Effects

Row	Effect	Group	Sex	Col1	Col2	Col3	Col4	Col5	Col6	Col7
1	Sex		0	0.6866	0.000860	-0.00121	0.000193		-0.01567	0.000174
2	Sex		1	0.000860	0.9982	-0.00098	0.000189		0.01754	0.000145
3	Days			-0.00121	-0.00098	0.000045	-0.00004		0.000064	-5.64E-6
4	Days*Group	0		0.000193	0.000189	-0.00004	0.000070		-0.00005	2.836E-6
5	Days*Group	1								
6	Fatmass_cent			-0.01567	0.01754	0.000064	-0.00005		0.006804	-2.63E-6
7	MuscleGlycogen_cent			0.000174	0.000145	-5.64E-6	2.836E-6		-2.63E-6	2.725E-6

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Sex	2	55	67.41	<.0001
Days	1	55	11.84	0.0011
Days*Group	1	55	0.13	0.7200
Fatmass_cent	1	55	3.64	0.0617
MuscleGlycogen_cent	1	55	6.99	0.0107

rand unstrucutred, main csh, Group specific var cov matrix

The Mixed Procedure

Model Information	
Data Set	WORK.EXERCISE_D
Dependent Variable	GIRperkgFFMperinsulin
Covariance Structures	Unstructured, Heterogeneous Compound Symmetry
Subject Effects	ID, ID
Group Effect	Group
Estimation Method	REML
Residual Variance Method	None
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

Class Level Information		
Class	**Levels**	**Values**
ID	30	1 10 11 19 21 22 23 24 25 27 29 31 4 40 41 42 43 47 49 53 55 56 6 62 63 64 65 7 8 9
Group	2	0 1
Sex	2	0 1

Dimensions	
Covariance Parameters	6
Columns in X	7
Columns in Z per Subject	2
Subjects	30
Max Obs per Subject	3

Number of Observations	
Number of Observations Read	93
Number of Observations Used	89
Number of Observations Not Used	4

Iteration History			
Iteration	**Evaluations**	**-2 Res Log Like**	**Criterion**
0	1	504.61293029	
1	2	457.26689133	0.02030022
2	1	453.58258806	0.00322765
3	1	453.03261743	0.00044705
4	1	453.01232338	0.00086165
5	1	452.86109788	0.00129807

rand unstrucutred, main csh, Group specific var cov matrix

The Mixed Procedure

Iteration History			
Iteration	**Evaluations**	**-2 Res Log Like**	**Criterion**
6	4	452.80604226	0.00053087
7	1	452.73059920	0.00082006
8	2	452.56110052	0.00394572
9	4	452.44879114	0.00186874
10	3	452.05377994	.
11	2	451.50863478	0.00015241
12	1	451.48445004	0.00000168
13	1	451.48419711	0.00000000

Convergence criteria met.

Estimated R Matrix for ID 1			
Row	**Col1**	**Col2**	**Col3**
1	10.6822	9.2780	7.9770
2	9.2780	15.2592	9.5340
3	7.9770	9.5340	11.2799

Estimated R Correlation Matrix for ID 1			
Row	**Col1**	**Col2**	**Col3**
1	1.0000	0.7267	0.7267
2	0.7267	1.0000	0.7267
3	0.7267	0.7267	1.0000

Estimated G Matrix					
Row	**Effect**	**ID**	**Group**	**Col1**	**Col2**
1	Intercept	1	0	3.2242	
2	Intercept	1	1		

Estimated G Correlation Matrix					
Row	**Effect**	**ID**	**Group**	**Col1**	**Col2**
1	Intercept	1	0	1.0000	
2	Intercept	1	1		1.0000

rand unstrucutred, main csh, Group specific var cov matrix

The Mixed Procedure

Estimated V Matrix for ID 1			
Row	Col1	Col2	Col3
1	10.6822	9.2780	7.9770
2	9.2780	15.2592	9.5340
3	7.9770	9.5340	11.2799

Estimated V Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.7267	0.7267
2	0.7267	1.0000	0.7267
3	0.7267	0.7267	1.0000

Estimated G matrix is not positive definite.

Covariance Parameter Estimates			
Cov Parm	Subject	Group	Estimate
UN(1,1)	ID	Group 0	3.2242
UN(1,1)	ID	Group 1	0
Var(1)	ID		10.6822
Var(2)	ID		15.2592
Var(3)	ID		11.2799
CSH	ID		0.7267

Fit Statistics	
-2 Res Log Likelihood	451.5
AIC (Smaller is Better)	461.5
AICC (Smaller is Better)	462.3
BIC (Smaller is Better)	468.5

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
4	53.13	<.0001

rand unstrucutred, main csh, Group specific var cov matrix

The Mixed Procedure

Solution for Fixed Effects

Effect	Group	Sex	Estimate	Standard Error	DF	t Value	Pr > |t|
Sex		0	8.4816	0.8187	55	10.36	<.0001
Sex		1	5.6208	0.9833	55	5.72	<.0001
Days			0.01874	0.006676	55	2.81	0.0069
Days*Group	0		-0.00302	0.008288	55	-0.36	0.7166
Days*Group	1		0	.	.	.	.
Fatmass_cent			-0.1565	0.08238	55	-1.90	0.0627
MuscleGlycogen_cent			-0.00446	0.001645	55	-2.71	0.0089

Covariance Matrix for Fixed Effects

Row	Effect	Group	Sex	Col1	Col2	Col3	Col4	Col5	Col6	Col7
1	Sex		0	0.6703	0.01305	-0.00130	0.000379		-0.01262	0.000171
2	Sex		1	0.01305	0.9668	-0.00110	0.000393		0.01660	0.000144
3	Days			-0.00130	-0.00110	0.000045	-0.00004		0.000063	-5.66E-6
4	Days*Group	0		0.000379	0.000393	-0.00004	0.000069		-0.00005	2.823E-6
5	Days*Group	1								
6	Fatmass_cent			-0.01262	0.01660	0.000063	-0.00005		0.006786	-2.17E-6
7	MuscleGlycogen_cent			0.000171	0.000144	-5.66E-6	2.823E-6		-2.17E-6	2.705E-6

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
Sex	2	55	69.06	<.0001
Days	1	55	12.00	0.0010
Days*Group	1	55	0.13	0.7166
Fatmass_cent	1	55	3.61	0.0627
MuscleGlycogen_cent	1	55	7.35	0.0089