

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	GlRperkgFFMperinsulin	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	9
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	506.60593489	
1	4	464.30756784	11.16871419
2	1	464.14478638	0.16240130
3	1	463.97840977	0.00430956
4	1	463.76021772	0.00124198
5	1	463.73211458	0.00092065

The Mixed Procedure

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
6	1	463.72907282	.
7	1	463.72905741	0.00000000

Convergence criteria met but final Hessian is not positive definite.

Estimated R Matrix for ID 1			
Row	Col1	Col2	Col3
1	4.2123	3.2197	-0.02772
2	3.2197	8.4209	2.2148
3	-0.02772	2.2148	3.7727

Estimated R Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.5406	-0.00695
2	0.5406	1.0000	0.3929
3	-0.00695	0.3929	1.0000

Estimated G Matrix				
Row	Effect	ID	Col1	Col2
1	Intercept	1	6.8597	0.004738
2	Days	1	0.004738	

Estimated G Correlation Matrix				
Row	Effect	ID	Col1	Col2
1	Intercept	1	1.0000	
2	Days	1		1.0000

Estimated V Matrix for ID 1			
Row	Col1	Col2	Col3
1	11.0720	10.5200	7.2868
2	10.5200	16.1618	9.9699
3	7.2868	9.9699	11.5420

The Mixed Procedure

Estimated V Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.7864	0.6446
2	0.7864	1.0000	0.7300
3	0.6446	0.7300	1.0000

Estimated G matrix is not positive definite.

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	ID	6.8597
UN(2,1)	ID	0.004738
UN(2,2)	ID	0
UN(1,1)	ID	4.2123
UN(2,1)	ID	3.2197
UN(2,2)	ID	8.4209
UN(3,1)	ID	-0.02772
UN(3,2)	ID	2.2148
UN(3,3)	ID	3.7727

Fit Statistics	
-2 Res Log Likelihood	463.7
AIC (Smaller is Better)	479.7
AICC (Smaller is Better)	481.7
BIC (Smaller is Better)	490.9

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
7	42.88	<.0001

Solution for Fixed Effects							
Effect	Group	Sex	Estimate	Standard Error	DF	t Value	Pr > t
Sex		0	7.9810	0.7894	26	10.11	<.0001
Sex		1	5.6381	0.9209	26	6.12	<.0001
Days*Group	0		0.01711	0.006437	26	2.66	0.0133
Days*Group	1		0.02273	0.006888	26	3.30	0.0028

The Mixed Procedure

Solution for Fixed Effects							
Effect	Group	Sex	Estimate	Standard Error	DF	t Value	Pr > t
Fatmass_cent			-0.1072	0.07827	26	-1.37	0.1826
Adiponectin_cent			0.000293	0.000215	26	1.36	0.1843
MuscleGlycogen_cent			-0.00391	0.001681	26	-2.32	0.0282

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	2	26	74.71	<.0001
Days*Group	2	26	7.87	0.0021
Fatmass_cent	1	26	1.87	0.1826
Adiponectin_cent	1	26	1.86	0.1843
MuscleGlycogen_cent	1	26	5.40	0.0282

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	7
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	506.60593489	
1	4	464.66571531	0.00834976
2	3	464.29267934	0.00132620
3	2	464.05742188	0.00020291
4	1	464.02061610	0.00003117
5	1	464.01518654	0.00000128
6	1	464.01497950	0.00000000

The Mixed Procedure

Convergence criteria met.

Estimated R Matrix for ID 1			
Row	Col1	Col2	Col3
1	6.2643	6.1252	3.4381
2	6.1252	12.8562	7.2162
3	3.4381	7.2162	8.6947

Estimated R Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.6825	0.4659
2	0.6825	1.0000	0.6825
3	0.4659	0.6825	1.0000

Estimated G Matrix				
Row	Effect	ID	Col1	Col2
1	Intercept	1	4.5575	-0.00834
2	Days	1	-0.00834	

Estimated G Correlation Matrix				
Row	Effect	ID	Col1	Col2
1	Intercept	1	1.0000	
2	Days	1		1.0000

Estimated V Matrix for ID 1			
Row	Col1	Col2	Col3
1	10.8218	9.9068	7.1946
2	9.9068	15.8618	10.1969
3	7.1946	10.1969	11.6504

Estimated V Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.7561	0.6408
2	0.7561	1.0000	0.7501
3	0.6408	0.7501	1.0000

Estimated G matrix is not positive definite.

The Mixed Procedure

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	ID	4.5575
UN(2,1)	ID	-0.00834
UN(2,2)	ID	0
Var(1)	ID	6.2643
Var(2)	ID	12.8562
Var(3)	ID	8.6947
ARH(1)	ID	0.6825

Fit Statistics	
-2 Res Log Likelihood	464.0
AIC (Smaller is Better)	476.0
AICC (Smaller is Better)	477.1
BIC (Smaller is Better)	484.4

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
5	42.59	<.0001

Solution for Fixed Effects							
Effect	Group	Sex	Estimate	Standard Error	DF	t Value	Pr > t
Sex		0	7.9838	0.7910	26	10.09	<.0001
Sex		1	5.6625	0.9209	26	6.15	<.0001
Days*Group	0		0.01721	0.006771	26	2.54	0.0173
Days*Group	1		0.02306	0.007193	26	3.21	0.0035
Fatmass_cent			-0.1114	0.07841	26	-1.42	0.1674
Adiponectin_cent			0.000301	0.000216	26	1.40	0.1742
MuscleGlycogen_cent			-0.00422	0.001672	26	-2.52	0.0181

The Mixed Procedure

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	2	26	74.27	<.0001
Days*Group	2	26	7.32	0.0030
Fatmass_cent	1	26	2.02	0.1674
Adiponectin_cent	1	26	1.95	0.1742
MuscleGlycogen_cent	1	26	6.37	0.0181

rand unstrcutred, main ARH(1), without random slope

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	506.60593489	
1	2	464.79797162	0.00415170
2	1	464.07988148	0.00016037
3	1	464.05246452	0.00000688
4	1	464.05135300	0.00000003
5	1	464.05134905	0.00000000

rand unstrucured, main ARH(1), without random slope

The Mixed Procedure

Convergence criteria met.

Estimated R Matrix for ID 1			
Row	Col1	Col2	Col3
1	6.4470	5.6464	2.9109
2	5.6464	11.7737	6.0696
3	2.9109	6.0696	7.4497

Estimated R Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.6481	0.4200
2	0.6481	1.0000	0.6481
3	0.4200	0.6481	1.0000

Estimated G Matrix			
Row	Effect	ID	Col1
1	Intercept	1	4.3258

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

Estimated V Matrix for ID 1			
Row	Col1	Col2	Col3
1	10.7727	9.9722	7.2366
2	9.9722	16.0995	10.3954
3	7.2366	10.3954	11.7754

Estimated V Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.7572	0.6425
2	0.7572	1.0000	0.7550
3	0.6425	0.7550	1.0000

rand unstrucutred, main ARH(1), without random slope

The Mixed Procedure

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	ID	4.3258
Var(1)	ID	6.4470
Var(2)	ID	11.7737
Var(3)	ID	7.4497
ARH(1)	ID	0.6481

Fit Statistics	
-2 Res Log Likelihood	464.1
AIC (Smaller is Better)	474.1
AICC (Smaller is Better)	474.8
BIC (Smaller is Better)	481.1

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
4	42.55	<.0001

Solution for Fixed Effects							
Effect	Group	Sex	Estimate	Standard Error	DF	t Value	Pr > t
Sex		0	7.9838	0.7896	54	10.11	<.0001
Sex		1	5.6524	0.9195	54	6.15	<.0001
Days*Group	0		0.01724	0.006807	54	2.53	0.0143
Days*Group	1		0.02303	0.007224	54	3.19	0.0024
Fatmass_cent			-0.1101	0.07840	54	-1.40	0.1659
Adiponectin_cent			0.000301	0.000215	54	1.40	0.1680
MuscleGlycogen_cent			-0.00422	0.001669	54	-2.53	0.0144

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	2	54	74.75	<.0001
Days*Group	2	54	7.26	0.0016
Fatmass_cent	1	54	1.97	0.1659
Adiponectin_cent	1	54	1.95	0.1680
MuscleGlycogen_cent	1	54	6.40	0.0144

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	8
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	506.60593489	
1	2	464.71572201	2894.7752943
2	1	464.69941923	6.94954410
3	2	464.65336855	9.69145994
4	1	464.58422219	5.24266184
5	1	464.20402629	42.68354453
6	1	463.78580035	1357.1422101

The Mixed Procedure

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
7	1	463.75466890	4.79282855
8	1	463.73088941	4.58169306
9	1	463.72906189	0.05042910
10	1	463.72905741	0.00000031
11	0	463.72905741	0.00000031
12	0	463.72905741	0.00000031
13	0	463.72905741	0.00000031
14	0	463.72905741	0.00000031
15	0	463.72905741	0.00000031
16	0	463.72905741	0.00000031
17	0	463.72905741	0.00000031
18	0	463.72905741	0.00000031
19	0	463.72905741	0.00000031

WARNING: Did not converge.

Covariance Parameter Values At Last Iteration		
Cov Parm	Subject	Estimate
UN(1,1)	ID	6.7486
UN(2,1)	ID	-0.00744
UN(2,2)	ID	0.000246
Var(1)	ID	4.3234
Var(2)	ID	8.6710
Var(3)	ID	3.9564
Rho(1)	ID	0.7289
Rho(2)	ID	0.4154

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	7
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	506.60593489	
1	2	526.59244806	3.21070656
2	1	526.54127798	3.18156375
3	1	526.03324703	9.20700622
4	1	522.10052767	200130.59630
5	1	518.14769085	416928.58016
6	1	514.52206618	574742.17444

The Mixed Procedure

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
7	1	511.09319618	500298.90823
8	2	507.12743189	930192.62858
9	1	503.58972972	11595.685827
10	1	501.87827330	3174.5988155
11	1	499.83767602	606.66368713
12	1	496.54127441	817.02195052
13	1	492.68438205	782.49515331
14	1	487.47769858	532.26291745
15	1	485.45991595	319.31882763
16	1	483.10827295	161.04774331
17	1	480.24286709	60.76276594
18	1	476.58221298	26.73373993
19	1	472.00740742	74.83760400
20	1	466.88103319	0.00089590
21	1	466.74289793	265.06972833
22	1	466.73411252	0.00002608
23	1	466.73329130	0.00001776
24	1	466.73226018	0.00001155
25	1	466.73155390	0.00000754
26	1	466.73113731	0.00000525
27	1	466.73088791	0.00000390
28	1	466.73073174	0.00000306
29	1	466.73062974	0.00000251
30	1	466.73056091	0.00000212
31	1	466.73051302	0.00000185
32	1	466.73047946	0.00000165
33	1	466.73045569	0.00000146
34	1	466.73043718	0.00000120
35	1	466.73041630	0.00000125
36	1	466.73040695	8.68652598
37	3	466.73040498	0.00000166
38	1	466.73040155	0.00000088
39	1	466.73026046	6.01829834
40	5	466.73025973	0.00000001

The Mixed Procedure

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
41	1	466.73025551	39.52517686
42	1	466.73024906	0.00000000

Convergence criteria met but final Hessian is not positive definite.

Estimated R Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.575E-8	0.000114	0.000118
2	0.000114	5.9208	2.2935
3	0.000118	2.2935	6.4154

Estimated R Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.3721	0.3721
2	0.3721	1.0000	0.3721
3	0.3721	0.3721	1.0000

Estimated G Matrix				
Row	Effect	ID	Col1	Col2
1	Intercept	1	11.2791	-0.02372
2	Days	1	-0.02372	0.000093

Estimated G Correlation Matrix				
Row	Effect	ID	Col1	Col2
1	Intercept	1	1.0000	-0.7331
2	Days	1	-0.7331	1.0000

Estimated V Matrix for ID 1			
Row	Col1	Col2	Col3
1	11.2791	9.0731	9.0020
2	9.0731	13.5907	9.9181
3	9.0020	9.9181	13.9956

The Mixed Procedure

Estimated V Correlation Matrix for ID 1			
Row	Col1	Col2	Col3
1	1.0000	0.7328	0.7165
2	0.7328	1.0000	0.7191
3	0.7165	0.7191	1.0000

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	ID	11.2791
UN(2,1)	ID	-0.02372
UN(2,2)	ID	0.000093
Var(1)	ID	1.575E-8
Var(2)	ID	5.9208
Var(3)	ID	6.4154
CSH	ID	0.3721

Fit Statistics	
-2 Res Log Likelihood	466.7
AIC (Smaller is Better)	480.7
AICC (Smaller is Better)	482.2
BIC (Smaller is Better)	490.5

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
6	39.88	<.0001

Solution for Fixed Effects							
Effect	Group	Sex	Estimate	Standard Error	DF	t Value	Pr > t
Sex		0	8.2194	0.8573	26	9.59	<.0001
Sex		1	5.9472	0.9887	26	6.02	<.0001
Days*Group	0		0.01641	0.006443	26	2.55	0.0171
Days*Group	1		0.02133	0.006985	26	3.05	0.0052
Fatmass_cent			-0.1494	0.08300	26	-1.80	0.0835
Adiponectin_cent			0.000233	0.000223	26	1.04	0.3057
MuscleGlycogen_cent			-0.00408	0.001711	26	-2.39	0.0246

The Mixed Procedure

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Sex	2	26	65.93	<.0001
Days*Group	2	26	6.72	0.0044
Fatmass_cent	1	26	3.24	0.0835
Adiponectin_cent	1	26	1.09	0.3057
MuscleGlycogen_cent	1	26	5.70	0.0246