

## Output from Model 1

### The MIXED Procedure

#### Class Level Information

Class	Levels	Values
ID	27	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

#### ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	278.99110766	
1	1	218.01857860	0.00000000

Convergence criteria met.

#### R Matrix for ID 1

Row	COL1	COL2	COL3	COL4
1	5.01430976	2.51557239	3.62058081	2.50946970
2	2.51557239	3.87478956	2.71033249	3.07144360
3	3.62058081	2.71033249	5.97753577	3.82475800
4	2.50946970	3.07144360	3.82475800	4.61642466

#### Covariance Parameter Estimates (MLE)

Cov Parm	Subject	Estimate
UN(1,1)	ID	5.01430976
UN(2,1)	ID	2.51557239
UN(2,2)	ID	3.87478956
UN(3,1)	ID	3.62058081
UN(3,2)	ID	2.71033249
UN(3,3)	ID	5.97753577
UN(4,1)	ID	2.50946970
UN(4,2)	ID	3.07144360
UN(4,3)	ID	3.82475800
UN(4,4)	ID	4.61642466

### Output from Model 1 (continued)

#### Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-208.255
Akaike's Information Criterion	-218.255
Schwarz's Bayesian Criterion	-231.665
-2 Log Likelihood	416.5093
Null Model LRT Chi-Square	60.9725
Null Model LRT DF	9.0000
Null Model LRT P-Value	0.0000

#### Solution for Fixed Effects

Effect	Estimate	Std Error	DF	t	Pr >  t
M08	22.87500000	0.55981636	27	40.86	0.0001
M10	23.81250000	0.49211213	27	48.39	0.0001
M12	25.71875000	0.61122499	27	42.08	0.0001
M14	27.46875000	0.53714667	27	51.14	0.0001
F08	21.18181818	0.67516394	27	31.37	0.0001
F10	22.22727273	0.59350956	27	37.45	0.0001
F12	23.09090909	0.73716507	27	31.32	0.0001
F14	24.09090909	0.64782325	27	37.19	0.0001

#### Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
M08	1	27	1669.67	0.0001
M10	1	27	2341.43	0.0001
M12	1	27	1770.51	0.0001
M14	1	27	2615.12	0.0001
F08	1	27	984.26	0.0001
F10	1	27	1402.55	0.0001
F12	1	27	981.19	0.0001
F14	1	27	1382.91	0.0001

# Output from Alternate Parameterization of Model 1

## The MIXED Procedure

### Class Level Information

Class	Levels	Values
ID	27	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
AGE	4	8 10 12 14
SEX	2	1 2

### ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	278.99110766	
1	1	218.01857860	0.00000000

Convergence criteria met.

### R Matrix for ID 1

Row	COL1	COL2	COL3	COL4
1	5.01430976	2.51557239	3.62058081	2.50946970
2	2.51557239	3.87478956	2.71033249	3.07144360
3	3.62058081	2.71033249	5.97753577	3.82475800
4	2.50946970	3.07144360	3.82475800	4.61642466

### Covariance Parameter Estimates (MLE)

Cov Parm	Subject	Estimate
UN(1,1)	ID	5.01430976
UN(2,1)	ID	2.51557239
UN(2,2)	ID	3.87478956
UN(3,1)	ID	3.62058081
UN(3,2)	ID	2.71033249
UN(3,3)	ID	5.97753577
UN(4,1)	ID	2.50946970
UN(4,2)	ID	3.07144360
UN(4,3)	ID	3.82475800
UN(4,4)	ID	4.61642466

## Output from Alternate Parameterization of Model 1 (continued)

## Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-208.255
Akaike's Information Criterion	-218.255
Schwarz's Bayesian Criterion	-231.665
-2 Log Likelihood	416.5093
Null Model LRT Chi-Square	60.9725
Null Model LRT DF	9.0000
Null Model LRT P-Value	0.0000

## Solution for Fixed Effects

Effect	AGE	SEX	Estimate	Std Error	DF	t	Pr >  t
INTERCEPT			24.09090909	0.64782325	25	37.19	0.0001
AGE	8		-2.90909091	0.64749834	25	-4.49	0.0001
AGE	10		-1.86363636	0.46204359	25	-4.03	0.0005
AGE	12		-1.00000000	0.51737488	25	-1.93	0.0647
AGE	14		0.00000000	.	.	.	.
SEX		1	3.37784091	0.84154709	25	4.01	0.0005
SEX		2	0.00000000	.	.	.	.
AGE*SEX	8	1	-1.68465909	0.84112501	25	-2.00	0.0561
AGE*SEX	8	2	0.00000000	.	.	.	.
AGE*SEX	10	1	-1.79261364	0.60021222	25	-2.99	0.0062
AGE*SEX	10	2	0.00000000	.	.	.	.
AGE*SEX	12	1	-0.75000000	0.67208969	25	-1.12	0.2751
AGE*SEX	12	2	0.00000000	.	.	.	.
AGE*SEX	14	1	0.00000000	.	.	.	.
AGE*SEX	14	2	0.00000000	.	.	.	.

## Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
AGE	3	25	37.20	0.0001
SEX	1	25	10.04	0.0040
AGE*SEX	3	25	3.16	0.0420

## Output from Model 2

### The MIXED Procedure

#### ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	279.75103669	
1	2	220.98649390	0.00000152
2	1	220.98632494	0.00000000

Convergence criteria met.

#### R Matrix for ID 1

Row	COL1	COL2	COL3	COL4
1	5.11918946	2.44089767	3.61051094	2.52224893
2	2.44089767	3.92793141	2.71751343	3.06236039
3	3.61051094	2.71751343	5.97979813	3.82346062
4	2.52224893	3.06236039	3.82346062	4.61797578

#### Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-209.739
Akaike's Information Criterion	-219.739
Schwarz's Bayesian Criterion	-233.149
-2 Log Likelihood	419.4770
Null Model LRT Chi-Square	58.7647
Null Model LRT DF	9.0000
Null Model LRT P-Value	0.0000

#### Solution for Fixed Effects

Effect	SEX	Estimate	Std Error	DF	t	Pr >  t
SEX	1	15.84227642	0.93559748	25	16.93	0.0001
SEX	2	17.42536960	1.12837301	25	15.44	0.0001
AGE*SEX	1	0.82680439	0.07911356	25	10.45	0.0001
AGE*SEX	2	0.47636461	0.09541455	25	4.99	0.0001

#### Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
SEX	2	25	262.60	0.0001
AGE*SEX	2	25	67.07	0.0001

## Output from Model 2: Alternate Parameterization

### ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	279.75103669	
1	2	220.98649390	0.00000152
2	1	220.98632494	0.00000000

Convergence criteria met.

### R Matrix for ID 1

Row	COL1	COL2	COL3	COL4
1	5.11918946	2.44089767	3.61051094	2.52224893
2	2.44089767	3.92793141	2.71751343	3.06236039
3	3.61051094	2.71751343	5.97979813	3.82346062
4	2.52224893	3.06236039	3.82346062	4.61797578

### Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-209.739
Akaike's Information Criterion	-219.739
Schwarz's Bayesian Criterion	-233.149
-2 Log Likelihood	419.4770
Null Model LRT Chi-Square	58.7647
Null Model LRT DF	9.0000
Null Model LRT P-Value	0.0000

### Solution for Fixed Effects

Effect	SEX	Estimate	Std Error	DF	t	Pr >  t
INTERCEPT		17.42536960	1.12837301	25	15.44	0.0001
SEX	1	-1.58309317	1.46579954	25	-1.08	0.2904
SEX	2	0.00000000	.	.	.	.
AGE*SEX	1	0.82680439	0.07911356	25	10.45	0.0001
AGE*SEX	2	0.47636461	0.09541455	25	4.99	0.0001

### Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
SEX	1	25	1.17	0.2904
AGE*SEX	2	25	67.07	0.0001

## Output from Model 2: Another Alternate Parameterization

### ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	279.75103669	
1	2	220.98649390	0.00000152
2	1	220.98632494	0.00000000

Convergence criteria met.

### R Matrix for ID 1

Row	COL1	COL2	COL3	COL4
1	5.11918946	2.44089767	3.61051094	2.52224893
2	2.44089767	3.92793141	2.71751343	3.06236039
3	3.61051094	2.71751343	5.97979813	3.82346062
4	2.52224893	3.06236039	3.82346062	4.61797578

### Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-209.739
Akaike's Information Criterion	-219.739
Schwarz's Bayesian Criterion	-233.149
-2 Log Likelihood	419.4770
Null Model LRT Chi-Square	58.7647
Null Model LRT DF	9.0000
Null Model LRT P-Value	0.0000

### Solution for Fixed Effects

Effect	SEX	Estimate	Std Error	DF	t	Pr >  t
INTERCEPT		17.42536960	1.12837301	25	15.44	0.0001
SEX	1	-1.58309317	1.46579954	25	-1.08	0.2904
SEX	2	0.00000000	.	.	.	.
AGE		0.47636461	0.09541455	25	4.99	0.0001
AGE*SEX	1	0.35043979	0.12394713	25	2.83	0.0091
AGE*SEX	2	0.00000000	.	.	.	.

### Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
SEX	1	25	1.17	0.2904
AGE	1	25	110.54	0.0001
AGE*SEX	1	25	7.99	0.0091

### Output from Model 3

#### ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	282.19289844	
1	2	227.66222957	0.00000219
2	1	227.66197956	0.00000000

Convergence criteria met.

#### R Matrix for ID 1

Row	COL1	COL2	COL3	COL4
1	5.08560127	2.52113486	3.56448761	2.40903808
2	2.52113486	3.95272709	2.65082732	2.91306120
3	3.56448761	2.65082732	6.06048355	4.01017777
4	2.40903808	2.91306120	4.01017777	5.04916150

#### Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-213.076
Akaike's Information Criterion	-223.076
Schwarz's Bayesian Criterion	-236.487
-2 Log Likelihood	426.1527
Null Model LRT Chi-Square	54.5309
Null Model LRT DF	9.0000
Null Model LRT P-Value	0.0000

#### Solution for Fixed Effects

Effect	SEX	Estimate	Std Error	DF	t	Pr >  t
SEX	1	17.41757169	0.84469904	25	20.62	0.0001
SEX	2	15.37242930	0.89801649	25	17.12	0.0001
AGE		0.67465137	0.06891572	25	9.79	0.0001

#### Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
SEX	2	25	222.37	0.0001
AGE	1	25	95.83	0.0001



### Output from Model 4

#### ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	279.75103669	
1	2	226.16916826	0.00014346
2	1	226.15238914	0.00000045
3	1	226.15233774	0.00000000

Convergence criteria met.

#### R Matrix for ID 1

Row	COL1	COL2	COL3	COL4
1	4.94377699	3.05057933	3.40527075	2.34205241
2	3.05057933	4.94377699	3.05057933	3.40527075
3	3.40527075	3.05057933	4.94377699	3.05057933
4	2.34205241	3.40527075	3.05057933	4.94377699

#### Covariance Parameter Estimates (MLE)

Cov Parm	Subject	Estimate
TOEP(2)	ID	3.05057933
TOEP(3)	ID	3.40527075
TOEP(4)	ID	2.34205241
Residual		4.94377699

#### Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-212.322
Akaike's Information Criterion	-216.322
Schwarz's Bayesian Criterion	-221.686
-2 Log Likelihood	424.6431
Null Model LRT Chi-Square	53.5987
Null Model LRT DF	3.0000
Null Model LRT P-Value	0.0000

#### Solution for Fixed Effects

Effect	SEX	Estimate	Std Error	DF	t	Pr >  t
SEX	1	16.26031836	1.02582723	25	15.85	0.0001
SEX	2	17.40922674	1.23719419	25	14.07	0.0001
AGE*SEX	1	0.79719964	0.08300793	79	9.60	0.0001
AGE*SEX	2	0.47591828	0.10011133	79	4.75	0.0001

#### Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
SEX	2	25	224.63	0.0001
AGE*SEX	2	79	57.42	0.0001

## Output from Model 5

### ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	279.75103669	
1	2	242.19028305	0.00000000

Convergence criteria met.

### R Matrix for ID 1

Row	COL1	COL2	COL3	COL4
1	4.89099772	2.96955214	1.80295318	1.09465671
2	2.96955214	4.89099772	2.96955214	1.80295318
3	1.80295318	2.96955214	4.89099772	2.96955214
4	1.09465671	1.80295318	2.96955214	4.89099772

### Covariance Parameter Estimates (MLE)

Cov Parm	Subject	Estimate
AR(1)	ID	0.60714650
Residual		4.89099772

### Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-220.341
Akaike's Information Criterion	-222.341
Schwarz's Bayesian Criterion	-225.023
-2 Log Likelihood	440.6810
Null Model LRT Chi-Square	37.5608
Null Model LRT DF	1.0000
Null Model LRT P-Value	0.0000

### Solution for Fixed Effects

Effect	SEX	Estimate	Std Error	DF	t	Pr >  t
SEX	1	16.59200843	1.32993505	25	12.48	0.0001
SEX	2	17.32171781	1.60396202	25	10.80	0.0001
AGE*SEX	1	0.76957127	0.11471734	79	6.71	0.0001
AGE*SEX	2	0.48373237	0.13835432	79	3.50	0.0008

### Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
SEX	2	25	136.14	0.0001
AGE*SEX	2	79	28.61	0.0001

## Output from Model 6

### ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	279.75103669	
1	1	229.31522763	0.00000000

Convergence criteria met.

### G Matrix

Effect	ID	Row	COL1	COL2
INTERCEPT	1	1	4.55691340	-0.19825389
AGE	1	2	-0.19825389	0.02375894

### Covariance Parameter Estimates (MLE)

Cov Parm	Subject	Estimate
UN(1,1)	ID	4.55691340
UN(2,1)	ID	-0.19825389
UN(2,2)	ID	0.02375894
Residual		1.71620370

### Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-213.903
Akaike's Information Criterion	-217.903
Schwarz's Bayesian Criterion	-223.267
-2 Log Likelihood	427.8060
Null Model LRT Chi-Square	50.4358
Null Model LRT DF	3.0000
Null Model LRT P-Value	0.0000

### Solution for Fixed Effects

Effect	SEX	Estimate	Std Error	DF	t	Pr >  t
SEX	1	16.34062500	0.98008280	54	16.67	0.0001
SEX	2	17.37272727	1.18202433	54	14.70	0.0001
AGE*SEX	1	0.78437500	0.08275307	54	9.48	0.0001
AGE*SEX	2	0.47954545	0.09980396	54	4.80	0.0001

### Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
SEX	2	54	247.00	0.0001
AGE*SEX	2	54	56.46	0.0001

## Output from Model 6 (with use of the REPEATED Statement)

## ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	279.75103669	
1	1	229.31522763	0.00000000

Convergence criteria met.

## R Matrix for ID 1

Row	COL1	COL2	COL3	COL4
1	1.71620370			
2		1.71620370		
3			1.71620370	
4				1.71620370

## G Matrix

Effect	ID	Row	COL1	COL2
INTERCEPT	1	1	4.55691340	-0.19825389
AGE	1	2	-0.19825389	0.02375894

## Covariance Parameter Estimates (MLE)

Cov Parm	Subject	Estimate
UN(1,1)	ID	4.55691340
UN(2,1)	ID	-0.19825389
UN(2,2)	ID	0.02375894
DIAG	ID	1.71620370

## Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-213.903
Akaike's Information Criterion	-217.903
Schwarz's Bayesian Criterion	-223.267
-2 Log Likelihood	427.8060
Null Model LRT Chi-Square	50.4358
Null Model LRT DF	3.0000
Null Model LRT P-Value	0.0000

## Solution for Fixed Effects

Effect	SEX	Estimate	Std Error	DF	t	Pr >  t
SEX	1	16.34062500	0.98008280	54	16.67	0.0001
SEX	2	17.37272727	1.18202433	54	14.70	0.0001
AGE*SEX	1	0.78437500	0.08275307	54	9.48	0.0001
AGE*SEX	2	0.47954545	0.09980396	54	4.80	0.0001

## Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
SEX	2	54	247.00	0.0001
AGE*SEX	2	54	56.46	0.0001

## Output from Model 7

### ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	279.75103669	
1	1	230.14833485	0.00000000

Convergence criteria met.

### R Matrix for ID 1

Row	COL1	COL2	COL3	COL4
1	1.87459666			
2		1.87459666		
3			1.87459666	
4				1.87459666

### G Matrix

Effect	ID	SEX	Row	COL1	COL2
SEX	1	1	1	3.03056169	
SEX	1	2	2		3.03056169

### Covariance Parameter Estimates (MLE)

Cov Parm	Subject	Estimate
SEX	ID	3.03056169
DIAG	ID	1.87459666

### Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-214.320
Akaike's Information Criterion	-216.320
Schwarz's Bayesian Criterion	-219.002
-2 Log Likelihood	428.6391

### Solution for Fixed Effects

Effect	SEX	Estimate	Std Error	DF	t	Pr >  t
SEX	1	16.34062500	0.96308491	25	16.97	0.0001
SEX	2	17.37272727	1.16152410	25	14.96	0.0001
AGE*SEX	1	0.78437500	0.07653832	79	10.25	0.0001
AGE*SEX	2	0.47954545	0.09230869	79	5.20	0.0001

### Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
SEX	2	25	255.79	0.0001
AGE*SEX	2	79	66.01	0.0001

## Output from Model 7 (using the RANDOM INTERCEPT Statement)

## ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	279.75103669	
1	1	230.14833485	0.00000000

Convergence criteria met.

## G Matrix

Effect	ID	Row	COL1
INTERCEPT	1	1	3.03056169

## Covariance Parameter Estimates (MLE)

Cov Parm	Subject	Estimate
INTERCEPT	ID	3.03056169
Residual		1.87459666

## Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-214.320
Akaike's Information Criterion	-216.320
Schwarz's Bayesian Criterion	-219.002
-2 Log Likelihood	428.6391

## Solution for Fixed Effects

Effect	SEX	Estimate	Std Error	DF	t	Pr >  t
SEX	1	16.34062500	0.96308491	79	16.97	0.0001
SEX	2	17.37272727	1.16152410	79	14.96	0.0001
AGE*SEX	1	0.78437500	0.07653832	79	10.25	0.0001
AGE*SEX	2	0.47954545	0.09230869	79	5.20	0.0001

## Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
SEX	2	79	255.79	0.0001
AGE*SEX	2	79	66.01	0.0001

### Output from Model 7 (Alternate Formulation)

#### ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	279.75103669	
1	1	230.14833485	0.00000000

Convergence criteria met.

#### R Matrix for ID 1

Row	COL1	COL2	COL3	COL4
1	4.90515835	3.03056169	3.03056169	3.03056169
2	3.03056169	4.90515835	3.03056169	3.03056169
3	3.03056169	3.03056169	4.90515835	3.03056169
4	3.03056169	3.03056169	3.03056169	4.90515835

#### Covariance Parameter Estimates (MLE)

Cov Parm	Subject	Estimate
CS	ID	3.03056169
Residual		1.87459666

#### Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-214.320
Akaike's Information Criterion	-216.320
Schwarz's Bayesian Criterion	-219.002
-2 Log Likelihood	428.6391
Null Model LRT Chi-Square	49.6027
Null Model LRT DF	1.0000
Null Model LRT P-Value	0.0000

#### Solution for Fixed Effects

Effect	SEX	Estimate	Std Error	DF	t	Pr >  t
SEX	1	16.34062500	0.96308491	25	16.97	0.0001
SEX	2	17.37272727	1.16152410	25	14.96	0.0001
AGE*SEX	1	0.78437500	0.07653832	79	10.25	0.0001
AGE*SEX	2	0.47954545	0.09230869	79	5.20	0.0001

#### Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
SEX	2	25	255.79	0.0001
AGE*SEX	2	79	66.01	0.0001

### Output from Model 8

#### ML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	279.75103669	
1	1	279.75103669	0.00000000

Convergence criteria met.

#### R Matrix for ID 1

Row	COL1	COL2	COL3	COL4
1	4.90515835			
2		4.90515835		
3			4.90515835	
4				4.90515835

#### Covariance Parameter Estimates (MLE)

Cov Parm	Subject	Estimate
DIAG	ID	4.90515835

#### Model Fitting Information for DISTANCE

Description	Value
Observations	108.0000
Log Likelihood	-239.121
Akaike's Information Criterion	-240.121
Schwarz's Bayesian Criterion	-241.462
-2 Log Likelihood	478.2418
Null Model LRT Chi-Square	0.0000
Null Model LRT DF	0.0000
Null Model LRT P-Value	1.0000

#### Solution for Fixed Effects

Effect	SEX	Estimate	Std Error	DF	t	Pr >  t
SEX	1	16.34062500	1.38975037	25	11.76	0.0001
SEX	2	17.37272727	1.67610202	25	10.36	0.0001
AGE*SEX	1	0.78437500	0.12380880	79	6.34	0.0001
AGE*SEX	2	0.47954545	0.14931904	79	3.21	0.0019

#### Tests of Fixed Effects

Source	NDF	DDF	Type III F	Pr > F
SEX	2	25	122.84	0.0001
AGE*SEX	2	79	25.23	0.0001



## Output from Linear Model with Independence Error Structure

### REML Estimation Iteration History

Iteration	Evaluations	Objective	Criterion
0	1	-1882.654336	
1	1	-1882.654336	0.00000000

Convergence criteria met.

### Covariance Parameter Estimates (REML)

Cov Parm	Subject	Estimate
DIAG	ID	0.10693227

### Model Fitting Information for SCR

Description	Value
Observations	1585.000
Res Log Likelihood	-507.839
Akaike's Information Criterion	-508.839
Schwarz's Bayesian Criterion	-511.521
-2 Res Log Likelihood	1015.678
Null Model LRT Chi-Square	0.0000
Null Model LRT DF	0.0000
Null Model LRT P-Value	1.0000

### Solution for Fixed Effects

Effect	Estimate	Std Error	DF	t	Pr >  t
INTERCEPT	1.21381768	0.03861356	615	31.44	0.0001
AGE	-0.01365656	0.00085811	962	-15.91	0.0001
GROUP2	0.32129705	0.08315096	615	3.86	0.0001
AGE*GROUP2	-0.00244433	0.00220025	962	-1.11	0.2669
GROUP3	-0.20117136	0.09773349	615	-2.06	0.0400
AGE*GROUP3	0.01371873	0.00209789	962	6.54	0.0001
GROUP4	-0.04695229	0.06963135	615	-0.67	0.5004
AGE*GROUP4	0.01236395	0.00168615	962	7.33	0.0001

## Output from JBB Linear Model

REML Estimation Iteration History			
Iteration	Evaluations	Objective	Criterion
0	1	-1882.654336	
1	2	-1229.067014	20956.918347
2	1	-1632.557563	57393.234077
3	1	-2012.782086	158611.73182
4	1	-2352.985379	399839.23220
5	1	-2627.449769	785913.68677
6	1	-2804.905460	777931.51264
7	2	-2862.595504	3864.7888068
8	2	-2869.021471	941.75673446
9	2	-2876.956482	4514.0181374
10	3	-2945.592449	0.02337618
11	3	-2980.930794	0.01185981
12	1	-3003.407925	0.00444503
13	1	-3011.688073	.
14	1	-3015.632303	.
15	1	-3016.379579	0.00005935
16	1	-3016.479659	0.00000286
17	1	-3016.484131	0.00000001
18	1	-3016.484146	0.00000000
Convergence criteria met.			

G Matrix				
Effect	ID	Row	COL1	COL2
INTERCEPT	1	1	0.00000000	0.00025739
AGE	1	2	0.00025739	0.00001696

Covariance Parameter Estimates (REML)		
Cov Parm	Subject	Estimate
UN(1,1)	ID	0.00000000
UN(2,1)	ID	0.00025739
UN(2,2)	ID	0.00001696
Variance	ID	0.04264327
SP(EXP)	ID	5.31988661
Residual		0.01188018

Model Fitting Information for SCR	
Description	Value
Observations	1585.000
Res Log Likelihood	59.0760
Akaike's Information Criterion	53.0760
Schwarz's Bayesian Criterion	36.9862
-2 Res Log Likelihood	-118.152
Null Model LRT Chi-Square	1133.830
Null Model LRT DF	5.0000
Null Model LRT P-Value	0.0000

Solution for Fixed Effects					
Effect	Estimate	Std Error	DF	t	Pr >  t
INTERCEPT	1.40603128	0.05534941	613	25.40	0.0001
AGE	-0.01852476	0.00134362	330	-13.79	0.0001
GROUP2	0.08388956	0.10327780	634	0.81	0.4169
AGE*GROUP2	0.00326712	0.00292041	634	1.12	0.2637
GROUP3	-0.35936041	0.11325119	634	-3.17	0.0016
AGE*GROUP3	0.01788783	0.00263174	634	6.80	0.0001
GROUP4	-0.17817747	0.08633412	634	-2.06	0.0394
AGE*GROUP4	0.01484975	0.00234085	634	6.34	0.0001