

### The Mixed Procedure

Model Information	
Data Set	WORK.ACTIVE4
Dependent Variable	Zmemcb
Covariance Structure	Unstructured
Subject Effect	id
Estimation Method	REML
Residual Variance Method	None
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Between-Within

Dimensions	
Covariance Parameters	28
Columns in X	17
Columns in Z	0
Subjects	1377
Max Obs per Subject	7

Number of Observations	
Number of Observations Read	9807
Number of Observations Used	6669
Number of Observations Not Used	3138

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	id	0.6287
UN(2,1)	id	0.4253
UN(2,2)	id	0.7587
UN(3,1)	id	0.4314
UN(3,2)	id	0.4928
UN(3,3)	id	0.6757
UN(4,1)	id	0.4395
UN(4,2)	id	0.5854
UN(4,3)	id	0.5403
UN(4,4)	id	0.8788
UN(5,1)	id	0.4841
UN(5,2)	id	0.6050
UN(5,3)	id	0.5558

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Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(5,4)	id	0.6944
UN(5,5)	id	0.9814
UN(6,1)	id	0.3946
UN(6,2)	id	0.4370
UN(6,3)	id	0.4854
UN(6,4)	id	0.4933
UN(6,5)	id	0.5827
UN(6,6)	id	0.8546
UN(7,1)	id	0.3372
UN(7,2)	id	0.2277
UN(7,3)	id	0.4615
UN(7,4)	id	0.2661
UN(7,5)	id	0.3062
UN(7,6)	id	0.4939
UN(7,7)	id	1.0934

Fit Statistics	
-2 Res Log Likelihood	13370.7
AIC (Smaller is Better)	13426.7
AICC (Smaller is Better)	13426.9
BIC (Smaller is Better)	13573.1

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
27	3925.01	<.0001

Solution for Fixed Effects							
Effect	RECODE of race (race or ethnic group)	gender	Estimate	Standard Error	DF	t Value	Pr >  t
Intercept			-1.9696	0.4082	1368	-4.83	<.0001
dep_9_bin_b			-0.2101	0.04816	1368	-4.36	<.0001
dep_9_bin_wp			-0.04397	0.06089	1368	-0.72	0.4703
INTGRP_MEM			0.05395	0.04065	1368	1.33	0.1847

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Solution for Fixed Effects							
Effect	RECODE of race (race or ethnic group)	gender	Estimate	Standard Error	DF	t Value	Pr >  t
dep_9_bin*INTGRP_MEM			0.2361	0.08780	1368	2.69	0.0073
visit			-0.00081	0.000077	1368	-10.54	<.0001
dep_9_bin_wp*visit			-0.00058	0.000299	1368	-1.95	0.0512
INTGRP_MEM*visit			0.000370	0.000108	1368	3.43	0.0006
dep_9_*INTGRP_*visit			-0.00090	0.000432	1368	-2.08	0.0379
yrseeduc			0.07500	0.007698	1368	9.74	<.0001
Race	Black		-0.4211	0.04648	1368	-9.06	<.0001
Race	Other		-0.3275	0.1598	1368	-2.05	0.0406
Race	White		0	.	.	.	.
female		female	0.5013	0.04573	1368	10.96	<.0001
female		male	0	.	.	.	.
baseage			-0.05555	0.003331	1368	-16.68	<.0001
basemmse			0.1770	0.01052	1368	16.82	<.0001

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
dep_9_bin_b	1	1368	19.03	<.0001
dep_9_bin_wp	1	1368	0.52	0.4703
INTGRP_MEM	1	1368	1.76	0.1847
dep_9_bin*INTGRP_MEM	1	1368	7.23	0.0073
visit	1	1368	111.07	<.0001
dep_9_bin_wp*visit	1	1368	3.81	0.0512
INTGRP_MEM*visit	1	1368	11.80	0.0006
dep_9_*INTGRP_*visit	1	1368	4.32	0.0379
yrseeduc	1	1368	94.92	<.0001
Race	2	1368	42.10	<.0001
female	1	1368	120.17	<.0001
baseage	1	1368	278.08	<.0001
basemmse	1	1368	283.03	<.0001

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Estimates								
Label	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
Interaction Effect at Visit 2	-0.00539	0.002592	2748	-2.08	0.0378	0.05	-0.01047	-0.00030
Interaction Effect at Visit 3	-0.04667	0.02246	2057	-2.08	0.0378	0.05	-0.09072	-0.00263
Interaction Effect at Visit 4	-0.09335	0.04492	1949	-2.08	0.0378	0.05	-0.1814	-0.00525
Interaction Effect at Visit 5	-0.1400	0.06738	1820	-2.08	0.0378	0.05	-0.2722	-0.00787
Interaction Effect at Visit 6	-0.2334	0.1123	1546	-2.08	0.0379	0.05	-0.4536	-0.01310
Interaction Effect at Visit 7	-0.4667	0.2246	897	-2.08	0.0380	0.05	-0.9075	-0.02595

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Model Information	
Data Set	WORK.ACTIVE4
Dependent Variable	Zreascb
Covariance Structure	Unstructured
Subject Effect	id
Estimation Method	REML
Residual Variance Method	None
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Between-Within

Dimensions	
Covariance Parameters	28
Columns in X	17
Columns in Z	0
Subjects	1368
Max Obs per Subject	7

Number of Observations	
Number of Observations Read	9779
Number of Observations Used	6641
Number of Observations Not Used	3138

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	id	0.5684
UN(2,1)	id	0.4373
UN(2,2)	id	0.6424
UN(3,1)	id	0.4297
UN(3,2)	id	0.5624
UN(3,3)	id	0.6926
UN(4,1)	id	0.4359
UN(4,2)	id	0.5239
UN(4,3)	id	0.5584
UN(4,4)	id	0.6320
UN(5,1)	id	0.4278
UN(5,2)	id	0.5376
UN(5,3)	id	0.5872

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Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(5,4)	id	0.5661
UN(5,5)	id	0.7237
UN(6,1)	id	0.4139
UN(6,2)	id	0.4311
UN(6,3)	id	0.4673
UN(6,4)	id	0.4630
UN(6,5)	id	0.5217
UN(6,6)	id	0.6268
UN(7,1)	id	0.3830
UN(7,2)	id	0.2050
UN(7,3)	id	0.2209
UN(7,4)	id	0.2500
UN(7,5)	id	0.2518
UN(7,6)	id	0.3839
UN(7,7)	id	0.7507

Fit Statistics	
-2 Res Log Likelihood	10017.5
AIC (Smaller is Better)	10073.5
AICC (Smaller is Better)	10073.8
BIC (Smaller is Better)	10219.7

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
27	5757.39	<.0001

Solution for Fixed Effects							
Effect	RECODE of race (race or ethnic group)	gender	Estimate	Standard Error	DF	t Value	Pr >  t
Intercept			-1.7120	0.4141	1359	-4.13	<.0001
dep_9_bin_b			-0.2569	0.04587	1359	-5.60	<.0001
dep_9_bin_wp			0.1615	0.04650	1359	3.47	0.0005
INTGRP_REAS			0.1064	0.03943	1359	2.70	0.0071

## The Mixed Procedure

Solution for Fixed Effects							
Effect	RECODE of race (race or ethnic group)	gender	Estimate	Standard Error	DF	t Value	Pr >  t
dep_9_bin*INTGRP_REA			0.06124	0.06474	1359	0.95	0.3444
visit			0.000327	0.000055	1359	5.93	<.0001
dep_9_bin_wp*visit			-0.00131	0.000227	1359	-5.76	<.0001
INTGRP_REAS*visit			0.000706	0.000077	1359	9.15	<.0001
dep_9_*INTGRP_*visit			-0.00028	0.000318	1359	-0.89	0.3719
yrseeduc			0.09673	0.007517	1359	12.87	<.0001
Race	Black		-0.5538	0.04451	1359	-12.44	<.0001
Race	Other		0.04924	0.1400	1359	0.35	0.7252
Race	White		0	.	.	.	.
female		female	0.07066	0.04484	1359	1.58	0.1153
female		male	0	.	.	.	.
baseage			-0.04937	0.003363	1359	-14.68	<.0001
basemmse			0.1545	0.01037	1359	14.91	<.0001

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
dep_9_bin_b	1	1359	31.36	<.0001
dep_9_bin_wp	1	1359	12.06	0.0005
INTGRP_REAS	1	1359	7.28	0.0071
dep_9_bin*INTGRP_REA	1	1359	0.89	0.3444
visit	1	1359	35.17	<.0001
dep_9_bin_wp*visit	1	1359	33.21	<.0001
INTGRP_REAS*visit	1	1359	83.74	<.0001
dep_9_*INTGRP_*visit	1	1359	0.80	0.3719
yrseeduc	1	1359	165.58	<.0001
Race	2	1359	78.29	<.0001
female	1	1359	2.48	0.1153
baseage	1	1359	215.56	<.0001
basemmse	1	1359	222.27	<.0001

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Estimates								
Label	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
Interaction Effect at Visit 2	-0.00170	0.001906	2748	-0.89	0.3718	0.05	-0.00544	0.002035
Interaction Effect at Visit 3	-0.01476	0.01652	2057	-0.89	0.3719	0.05	-0.04716	0.01764
Interaction Effect at Visit 4	-0.02951	0.03304	1949	-0.89	0.3719	0.05	-0.09432	0.03529
Interaction Effect at Visit 5	-0.04427	0.04957	1820	-0.89	0.3719	0.05	-0.1415	0.05294
Interaction Effect at Visit 6	-0.07378	0.08261	1546	-0.89	0.3719	0.05	-0.2358	0.08825
Interaction Effect at Visit 7	-0.1476	0.1652	897	-0.89	0.3720	0.05	-0.4718	0.1767



### The Mixed Procedure

Model Information	
Data Set	WORK.ACTIVE4
Dependent Variable	ZspdcB
Covariance Structure	Unstructured
Subject Effect	id
Estimation Method	REML
Residual Variance Method	None
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Between-Within

Dimensions	
Covariance Parameters	28
Columns in X	17
Columns in Z	0
Subjects	1377
Max Obs per Subject	7

Number of Observations	
Number of Observations Read	9800
Number of Observations Used	6618
Number of Observations Not Used	3182

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	id	0.7675
UN(2,1)	id	0.3828
UN(2,2)	id	1.6363
UN(3,1)	id	0.3971
UN(3,2)	id	1.3587
UN(3,3)	id	1.7199
UN(4,1)	id	0.4309
UN(4,2)	id	1.1170
UN(4,3)	id	1.1817
UN(4,4)	id	1.3362
UN(5,1)	id	0.4027
UN(5,2)	id	1.1441
UN(5,3)	id	1.2476

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Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(5,4)	id	1.0564
UN(5,5)	id	1.5026
UN(6,1)	id	0.4376
UN(6,2)	id	0.7483
UN(6,3)	id	0.8312
UN(6,4)	id	0.7757
UN(6,5)	id	0.8720
UN(6,6)	id	1.0906
UN(7,1)	id	0.4611
UN(7,2)	id	-0.1490
UN(7,3)	id	-0.07876
UN(7,4)	id	0.04914
UN(7,5)	id	0.1587
UN(7,6)	id	0.3198
UN(7,7)	id	1.2202

Fit Statistics	
-2 Res Log Likelihood	16436.6
AIC (Smaller is Better)	16492.6
AICC (Smaller is Better)	16492.8
BIC (Smaller is Better)	16638.9

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
27	3455.43	<.0001

Solution for Fixed Effects							
Effect	RECODE of race (race or ethnic group)	gender	Estimate	Standard Error	DF	t Value	Pr >  t
Intercept			-2.8760	0.4636	1366	-6.20	<.0001
dep_9_bin_b			0.1750	0.05252	1366	3.33	0.0009
dep_9_bin_wp			-0.1575	0.08012	1366	-1.97	0.0495
INTGRP_SPD			-0.1447	0.04538	1366	-3.19	0.0015

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Solution for Fixed Effects							
Effect	RECODE of race (race or ethnic group)	gender	Estimate	Standard Error	DF	t Value	Pr >  t
dep_9_bin*INTGRP_SPD			-0.2591	0.1148	1366	-2.26	0.0241
visit			0.000249	0.000092	1366	2.70	0.0070
dep_9_bin_wp*visit			0.001390	0.000364	1366	3.81	0.0001
INTGRP_SPD*visit			-0.00174	0.000128	1366	-13.62	<.0001
dep_9_*INTGRP_*visit			0.001480	0.000506	1366	2.92	0.0035
yrseeduc			-0.03660	0.008578	1366	-4.27	<.0001
Race	Black		0.2661	0.05115	1366	5.20	<.0001
Race	Other		0.2376	0.1698	1366	1.40	0.1618
Race	White		0	.	.	.	.
female		female	0.01013	0.05129	1366	0.20	0.8435
female		male	0	.	.	.	.
baseage			0.07371	0.003814	1366	19.33	<.0001
basemmse			-0.08228	0.01179	1366	-6.98	<.0001

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
dep_9_bin_b	1	1366	11.10	0.0009
dep_9_bin_wp	1	1366	3.86	0.0495
INTGRP_SPD	1	1366	10.17	0.0015
dep_9_bin*INTGRP_SPD	1	1366	5.10	0.0241
visit	1	1366	7.29	0.0070
dep_9_bin_wp*visit	1	1366	14.54	0.0001
INTGRP_SPD*visit	1	1366	185.39	<.0001
dep_9_*INTGRP_*visit	1	1366	8.55	0.0035
yrseeduc	1	1366	18.21	<.0001
Race	2	1366	14.06	<.0001
female	1	1366	0.04	0.8435
baseage	1	1366	373.57	<.0001
basemmse	1	1366	48.67	<.0001

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Estimates								
Label	Estimate	Standard Error	DF	t Value	Pr >  t	Alpha	Lower	Upper
Interaction Effect at Visit 2	0.008882	0.003037	2748	2.92	0.0035	0.05	0.002927	0.01484
Interaction Effect at Visit 3	0.07698	0.02632	2057	2.92	0.0035	0.05	0.02536	0.1286
Interaction Effect at Visit 4	0.1540	0.05264	1949	2.92	0.0035	0.05	0.05072	0.2572
Interaction Effect at Visit 5	0.2309	0.07896	1820	2.92	0.0035	0.05	0.07608	0.3858
Interaction Effect at Visit 6	0.3849	0.1316	1546	2.92	0.0035	0.05	0.1268	0.6430
Interaction Effect at Visit 7	0.7698	0.2632	897	2.92	0.0035	0.05	0.2532	1.2864