

Model Information	
Data Set	WORK.PAST_MONTH
Dependent Variable	use
Covariance Structure	Variance Components
Group Effect	age_grp
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Between-Within

Class Level Information		
Class	Levels	Values
abbrev	50	AK AL AR AZ CA CO CT DE FL GA HI IA ID IL IN KS KY LA MA MD ME MI MN MO MS MT NC ND NE NH NJ NM NV NY OH OK OR PA RI SC SD TN TX UT VA VT WA WI WV WY
age_grp	3	1 2 3
mml_pass	3	after before never
restrict	2	high or illegal low

Dimensions	
Covariance Parameters	4
Columns in X	60
Columns in Z	150
Subjects	1
Max Obs per Subject	2100

Number of Observations	
Number of Observations Read	2100
Number of Observations Used	2100
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	9316.22257585	
1	2	7039.82277915	0.00000040
2	1	7039.82212909	0.00000000

Convergence criteria met.

Covariance Parameter Estimates		
Cov Parm	Group	Estimate
abbrev	age_grp 1	0.7317
abbrev	age_grp 2	9.3037
abbrev	age_grp 3	0.9303
Residual		1.2838

Fit Statistics	
-2 Res Log Likelihood	7039.8
AIC (Smaller is Better)	7047.8
AICC (Smaller is Better)	7047.8
BIC (Smaller is Better)	7055.5

Solution for Fixed Effects								
Effect	mml_pass	restrict	age_grp	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept				3.5396	0.5314	2073	6.66	<.0001
yearcont				-0.00074	0.1832	2073	-0.00	0.9968
yearcont*yearcont				-0.00230	0.05732	2073	-0.04	0.9679
yearco*yearco*yearco				0.001856	0.004914	2073	0.38	0.7057
yearsp*yearsp*yearsp				-0.00124	0.006657	2073	-0.19	0.8521
yearcont*age_grp			1	-0.9077	0.2591	2073	-3.50	0.0005
yearcont*age_grp			2	-1.1693	0.2591	2073	-4.51	<.0001
yearcont*age_grp			3	0	.	.	.	.
yearco*yearco*age_gr			1	0.1598	0.08106	2073	1.97	0.0488
yearco*yearco*age_gr			2	0.3400	0.08106	2073	4.19	<.0001
yearco*yearco*age_gr			3	0	.	.	.	.
year*year*year*age_g			1	-0.00987	0.006949	2073	-1.42	0.1557
year*year*year*age_g			2	-0.02601	0.006950	2073	-3.74	0.0002
year*year*year*age_g			3	0	.	.	.	.
year*year*year*age_g			1	0.003174	0.009414	2073	0.34	0.7360
year*year*year*age_g			2	0.02801	0.009416	2073	2.98	0.0030
year*year*year*age_g			3	0	.	.	.	.
age_grp			1	4.9579	0.7315	2073	6.78	<.0001
age_grp			2	12.3527	1.0657	2073	11.59	<.0001
age_grp			3	0	.	.	.	.
mml_pass	after			2.5672	0.4864	2073	5.28	<.0001
mml_pass	before			1.5911	0.3667	2073	4.34	<.0001
mml_pass	never			0	.	.	.	.
restrict		high or illegal		-0.4189	0.4820	2073	-0.87	0.3849
restrict		low		0	.	.	.	.
age_grp*restrict		high or illegal	1	-0.4465	0.6648	2073	-0.67	0.5019
age_grp*restrict		low	1	0	.	.	.	.
age_grp*restrict		high or illegal	2	-0.4974	0.8537	2073	-0.58	0.5602
age_grp*restrict		low	2	0	.	.	.	.
age_grp*restrict		high or illegal	3	0	.	.	.	.
age_grp*restrict		low	3	0	.	.	.	.
mml_pass*restrict	after	high or illegal		-0.7011	0.3839	2073	-1.83	0.0679
mml_pass*restrict	after	low		0	.	.	.	.
mml_pass*restrict	before	high or illegal		0	.	.	.	.
mml_pass*restrict	before	low		0	.	.	.	.
mml_pass*restrict	never	high or illegal		0	.	.	.	.
age_grp*mml_pass	after		1	-0.8821	0.6706	2073	-1.32	0.1885
age_grp*mml_pass	before		1	0.2099	0.4973	2073	0.42	0.6731
age_grp*mml_pass	never		1	0	.	.	.	.

Solution for Fixed Effects

Effect	mml_pass	restrict	age_grp	Estimate	Standard Error	DF	t Value	Pr > |t|
age_grp*mml_pass	after		2	3.7032	1.1082	2073	3.34	0.0008
age_grp*mml_pass	before		2	4.2359	1.0050	2073	4.21	<.0001
age_grp*mml_pass	never		2	0	.	.	.	.
age_grp*mml_pass	after		3	0	.	.	.	.
age_grp*mml_pass	before		3	0	.	.	.	.
age_grp*mml_pass	never		3	0	.	.	.	.
age_gr*mml_pa*restri	after	high or illegal	1	1.0094	0.5413	2073	1.86	0.0624
age_gr*mml_pa*restri	after	low	1	0	.	.	.	.
age_gr*mml_pa*restri	before	high or illegal	1	0	.	.	.	.
age_gr*mml_pa*restri	before	low	1	0	.	.	.	.
age_gr*mml_pa*restri	never	high or illegal	1	0	.	.	.	.
age_gr*mml_pa*restri	after	high or illegal	2	0.2509	0.5498	2073	0.46	0.6482
age_gr*mml_pa*restri	after	low	2	0	.	.	.	.
age_gr*mml_pa*restri	before	high or illegal	2	0	.	.	.	.
age_gr*mml_pa*restri	before	low	2	0	.	.	.	.
age_gr*mml_pa*restri	never	high or illegal	2	0	.	.	.	.
age_gr*mml_pa*restri	after	high or illegal	3	0	.	.	.	.
age_gr*mml_pa*restri	after	low	3	0	.	.	.	.
age_gr*mml_pa*restri	before	high or illegal	3	0	.	.	.	.
age_gr*mml_pa*restri	before	low	3	0	.	.	.	.
age_gr*mml_pa*restri	never	high or illegal	3	0	.	.	.	.

Type 3 Tests of Fixed Effects

Effect	Num DF	Den DF	F Value	Pr > F
yearcont	1	2073	42.94	<.0001
yearcont*yearcont	1	2073	24.65	<.0001
yearco*yearco*yearco	1	2073	12.68	0.0004
yearsp*yearsp*yearsp	1	2073	5.67	0.0173
yearcont*age_grp	2	2073	11.22	<.0001
yearco*yearco*age_gr	2	2073	8.81	0.0002
year*year*year*age_g	2	2073	7.14	0.0008
year*year*year*age_g	2	2073	5.31	0.0050
age_grp	2	2073	381.87	<.0001
mml_pass	2	2073	45.14	<.0001
restrict	1	2073	10.27	0.0014
age_grp*restrict	2	2073	0.18	0.8330
mml_pass*restrict	1	2073	1.59	0.2079
age_grp*mml_pass	4	2073	5.51	0.0002
age_gr*mml_pa*restri	2	2073	1.88	0.1524

<i>Label</i>	<i>Estimates</i>							
	<i>Estimate</i>	<i>Standard Error</i>	<i>DF</i>	<i>t Value</i>	<i>Pr > |t|</i>	<i>Alpha</i>	<i>Lower</i>	<i>Upper</i>
<i>Age 12-17: After to Before, High or illegal</i>	0.1924	0.2336	2073	0.82	0.4102	0.05	-0.2657	0.6505
<i>Age 12-17: After to Before, Low Restrictiveness</i>	-0.1159	0.3203	2073	-0.36	0.7176	0.05	-0.7441	0.5123
<i>Age 18-25: After to Before, High or illegal</i>	-0.00687	0.2418	2073	-0.03	0.9774	0.05	-0.4811	0.4673
<i>Age 18-25: After to Before, Low Restrictiveness</i>	0.4434	0.3297	2073	1.34	0.1788	0.05	-0.2032	1.0899
<i>Age 26+: After to Before, High or illegal</i>	0.2750	0.2352	2073	1.17	0.2424	0.05	-0.1862	0.7362
<i>Age 26+: After to Before, Low Restrictiveness</i>	0.9761	0.3222	2073	3.03	0.0025	0.05	0.3443	1.6079

Model Information	
Data Set	WORK.PAST_MONTH2
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Residual Variance Method	Profile
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Degrees of Freedom Method	Between-Within

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mml_pass	3	after before never
restrict	2	high low or illegal

Dimensions	
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1	2	7039.82277915	0.00000040
2	1	7039.82212909	0.00000000

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abbrev	age_grp 3	0.9303
Residual		1.2838

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-2 Res Log Likelihood	7039.8
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AICC (Smaller is Better)	7047.8
BIC (Smaller is Better)	7055.5

Solution for Fixed Effects								
Effect	mml_pass	restrict	age_grp	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept				3.1208	0.2440	2073	12.79	<.0001
yearcont				-0.00074	0.1832	2073	-0.00	0.9968
yearcont*yearcont				-0.00230	0.05732	2073	-0.04	0.9679
yearco*yearco*yearco				0.001856	0.004914	2073	0.38	0.7057
yearsp*yearsp*yearsp				-0.00124	0.006657	2073	-0.19	0.8521
yearcont*age_grp			1	-0.9077	0.2591	2073	-3.50	0.0005
yearcont*age_grp			2	-1.1693	0.2591	2073	-4.51	<.0001
yearcont*age_grp			3	0	.	.	.	.
yearco*yearco*age_gr			1	0.1598	0.08106	2073	1.97	0.0488
yearco*yearco*age_gr			2	0.3400	0.08106	2073	4.19	<.0001
yearco*yearco*age_gr			3	0	.	.	.	.
year*year*year*age_g			1	-0.00987	0.006949	2073	-1.42	0.1557
year*year*year*age_g			2	-0.02601	0.006950	2073	-3.74	0.0002
year*year*year*age_g			3	0	.	.	.	.
year*year*year*age_g			1	0.003174	0.009414	2073	0.34	0.7360
year*year*year*age_g			2	0.02801	0.009416	2073	2.98	0.0030
year*year*year*age_g			3	0	.	.	.	.
age_grp			1	4.5114	0.3342	2073	13.50	<.0001
age_grp			2	11.8553	0.6551	2073	18.10	<.0001
age_grp			3	0	.	.	.	.
mml_pass	after			2.9861	0.3396	2073	8.79	<.0001
mml_pass	before			2.0100	0.4423	2073	4.54	<.0001
mml_pass	never			0	.	.	.	.
restrict		high		-0.4189	0.4820	2073	-0.87	0.3849
restrict		low or illegal		0	.	.	.	.
age_grp*restrict		high	1	-0.4465	0.6648	2073	-0.67	0.5019
age_grp*restrict		low or illegal	1	0	.	.	.	.
age_grp*restrict		high	2	-0.4974	0.8537	2073	-0.58	0.5602
age_grp*restrict		low or illegal	2	0	.	.	.	.
age_grp*restrict		high	3	0	.	.	.	.
age_grp*restrict		low or illegal	3	0	.	.	.	.
mml_pass*restrict	after	high		-0.7011	0.3839	2073	-1.83	0.0679
mml_pass*restrict	after	low or illegal		0	.	.	.	.
mml_pass*restrict	before	high		0	.	.	.	.
mml_pass*restrict	before	low or illegal		0	.	.	.	.
mml_pass*restrict	never	low or illegal		0	.	.	.	.
age_grp*mml_pass	after		1	-0.4356	0.4583	2073	-0.95	0.3420
age_grp*mml_pass	before		1	0.6564	0.6075	2073	1.08	0.2801
age_grp*mml_pass	never		1	0	.	.	.	.

Solution for Fixed Effects								
Effect	mml_pass	restrict	age_grp	Estimate	Standard Error	DF	t Value	Pr > |t|
age_grp*mml_pass	after		2	4.2005	0.9798	2073	4.29	<.0001
age_grp*mml_pass	before		2	4.7332	1.0645	2073	4.45	<.0001
age_grp*mml_pass	never		2	0	.	.	.	.
age_grp*mml_pass	after		3	0	.	.	.	.
age_grp*mml_pass	before		3	0	.	.	.	.
age_grp*mml_pass	never		3	0	.	.	.	.
age_gr*mml_pa*restri	after	high	1	1.0094	0.5413	2073	1.86	0.0624
age_gr*mml_pa*restri	after	low or illegal	1	0	.	.	.	.
age_gr*mml_pa*restri	before	high	1	0	.	.	.	.
age_gr*mml_pa*restri	before	low or illegal	1	0	.	.	.	.
age_gr*mml_pa*restri	never	low or illegal	1	0	.	.	.	.
age_gr*mml_pa*restri	after	high	2	0.2509	0.5498	2073	0.46	0.6482
age_gr*mml_pa*restri	after	low or illegal	2	0	.	.	.	.
age_gr*mml_pa*restri	before	high	2	0	.	.	.	.
age_gr*mml_pa*restri	before	low or illegal	2	0	.	.	.	.
age_gr*mml_pa*restri	never	low or illegal	2	0	.	.	.	.
age_gr*mml_pa*restri	after	high	3	0	.	.	.	.
age_gr*mml_pa*restri	after	low or illegal	3	0	.	.	.	.
age_gr*mml_pa*restri	before	high	3	0	.	.	.	.
age_gr*mml_pa*restri	before	low or illegal	3	0	.	.	.	.
age_gr*mml_pa*restri	never	low or illegal	3	0	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
yearcont	1	2073	42.94	<.0001
yearcont*yearcont	1	2073	24.65	<.0001
yearco*yearco*yearco	1	2073	12.68	0.0004
yearsp*yearsp*yearsp	1	2073	5.67	0.0173
yearcont*age_grp	2	2073	11.22	<.0001
yearco*yearco*age_gr	2	2073	8.81	0.0002
year*year*year*age_g	2	2073	7.14	0.0008
year*year*year*age_g	2	2073	5.31	0.0050
age_grp	2	2073	380.58	<.0001
mml_pass	2	2073	75.60	<.0001
restrict	1	2073	10.27	0.0014
age_grp*restrict	2	2073	0.18	0.8330
mml_pass*restrict	1	2073	1.59	0.2079
age_grp*mml_pass	4	2073	6.34	<.0001
age_gr*mml_pa*restri	2	2073	1.88	0.1524

<i>Label</i>	<i>Estimates</i>							
	<i>Estimate</i>	<i>Standard Error</i>	<i>DF</i>	<i>t Value</i>	<i>Pr > |t|</i>	<i>Alpha</i>	<i>Lower</i>	<i>Upper</i>
<i>Age 12-17: After to Before, High or illegal</i>	0.1924	0.2336	2073	0.82	0.4102	0.05	-0.2657	0.6505
<i>Age 12-17: After to Before, Low Restrictiveness</i>	-0.1159	0.3203	2073	-0.36	0.7176	0.05	-0.7441	0.5123
<i>Age 18-25: After to Before, High or illegal</i>	-0.00687	0.2418	2073	-0.03	0.9774	0.05	-0.4811	0.4673
<i>Age 18-25: After to Before, Low Restrictiveness</i>	0.4434	0.3297	2073	1.34	0.1788	0.05	-0.2032	1.0899
<i>Age 26+: After to Before, High or illegal</i>	0.2750	0.2352	2073	1.17	0.2424	0.05	-0.1862	0.7362
<i>Age 26+: After to Before, Low Restrictiveness</i>	0.9761	0.3222	2073	3.03	0.0025	0.05	0.3443	1.6079