Model Information						
WORK.ATS5K						
Trt_Step						
Multinomial (ordered)						
Cumulative Logit						
Default						
pat_id						
Maximum Likelihood						
Laplace						
Containment						

Class Level Information								
Class	s Levels V							
pat_id	5000	not printed						
region	4	1234						
Trt_Step	6	543210						
gender	3	120						
Insurance	6	234561						

Number of Observations Read	128560
Number of Observations Used	128560

Response Profile							
Ordered Value	Trt_Step	Total Frequency					
1	5	1917					
2	4	14952					
3	3	14940					
4	2	17079					
5	1	21518					
6	0	58154					

The GLIMMIX procedure is modeling the probabilities of levels of Trt_Step having lower Ordered Values in the Response Profile table.

Dimensions	
G-side Cov. Parameters	2
Columns in X	26
Columns in Z per Subject	2
Subjects (Blocks in V)	5000
Max Obs per Subject	259

Optimization Information							
Optimization Technique	Dual Quasi-Newton						
Parameters in Optimization	25						
Lower Boundaries	2						
Upper Boundaries	0						
Fixed Effects	Not Profiled						
Starting From	GLM estimates						

	Iteration History									
Iteration	Objective ation Restarts Evaluations Function		Change	Max Gradient						
0	0	4	374126.62051		27923722					
1	0	20	374046.70611	79.91440230	763980.7					
2	0	3	373885.15329	161.55282308	137622.7					
3	0	4	373309.38891	575.76437296	384640.4					
4	0	4	373302.7917	6.59720836	461184.3					
5	0	6	373235.01489	67.77681829	1107673					
6	0	2	373223.81174	11.20314875	8020068					
7	0	2	373205.12161	18.69013070	507042.5					
8	0	2	2 373175.32666 29.79494779		5971425					
9	0	2	373141.25284	34.07382298	818489.8					
10	0	3	3 373135.34439 5.90845055		232294.4					
11	0	2	373130.72824	4.61614715	448099.8					
12	0	4	373106.17652	24.55171987	1254240					
13	0	4	372800.673	305.50351411	1477098					
14	0	5	372778.32351	22.34949509	2011034					
15	0	3	372776.09526	2.22824601	529001					
16	0	3	372775.67175	0.42351683	716407.4					
17	0	4	372769.72446	5.94728891	189569.9					
18	0	2	372761.48045	8.24400856	564971					
19	0	2	372747.46227	14.01817956	1184894					

Iteration History									
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient				
20	0	4	372715.61862	31.84365314	4472616				
21	0	3	372696.50308	19.11553340	1028068				
22	0	3	372695.64637	0.85671204	118454.7				
23	0	3	372695.46558	0.18078767	199726.7				
24	0	6	372680.07597	15.38961353	3169435				
25	0	3	372674.06977	6.00620338	152678.9				
26	0	2	372671.90076	2.16901065	240983.7				
27	0	3	372670.57279	1.32796931	42262.28				
28	0	3	372670.48708	0.08570506	141791.2				
29	0	6	372660.17558	10.31149986	1103524				
30	0	2	372650.83964	9.33594100	411782.6				
31	0	3	372648.65952	2.18011664	27964.73				
32	0	6	372583.88691	64.77261020	722331.3				
33	0	3	372582.9177	0.96921464	53008.4				
34	0	3	372582.832	0.08569999	60633.58				
35	0	6	372577.20458	5.62741991	453912				
36	0	3	372575.05151	2.15306733	365208.1				
37	0	4	372569.82511	5.22640537	31392.98				
38	0	3	372567.0761	2.74900383	96493.5				
39	0	4	372541.96098	25.11511857	105189.6				
40	0	3	372540.16494	1.79604134	52535.39				
41	0	3	372540.14038	0.02456464	24729.18				
42	0	3	372540.1289	0.01147808	25796.7				
43	0	6	372539.47264	0.65625862	507831.4				
44	0	2	372538.71147	0.76117522	48971.58				
45	0	2	372537.72761	0.98385135	243632.9				
46	0	6	372514.02767	23.69993963	681718.2				
47	0	3	372512.97624	1.05143743	36940.32				
48	0	3	372512.93499	0.04125050	13658.86				
49	0	3	372512.91919	0.01579849	19144.92				
50	0	3	372512.91753	0.00165464	14138.77				

Convergence criterion (GCONV=1E-8) satisfied.

The SAS System

Fit Statistics						
-2 Log Likelihood	372512.9					
AIC (smaller is better)	372562.9					
AICC (smaller is better)	372562.9					
BIC (smaller is better)	372725.8					
CAIC (smaller is better)	372750.8					
HQIC (smaller is better)	372620.0					

Fit Statistics for Conditional Distribution					
-2 log L(Trt_Step r. effects)	362510.1				

Covariance Parameter Estimates								
Cov Parm Subject Estimate Star								
Intercept	pat_id	0.3448	0.01448					
year	pat_id	0.02349	0.002028					

Solutions for Fixed Effects												
Effect	Trt_Step	region	gender	Insurance	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper
Intercept	5				-5.4157	0.7626	4989	-7.10	<.0001	0.05	-6.9107	-3.9206
Intercept	4				-3.0109	0.7623	4989	-3.95	<.0001	0.05	-4.5054	-1.5165
Intercept	3				-2.1660	0.7623	4989	-2.84	0.0045	0.05	-3.6604	-0.6716
Intercept	2				-1.4682	0.7623	4989	-1.93	0.0541	0.05	-2.9626	0.02617
Intercept	1				-0.7172	0.7623	4989	-0.94	0.3468	0.05	-2.2116	0.7772
year					2.1630	0.06181	4999	35.00	<.0001	0.05	2.0418	2.2842
year*year					-2.6860	0.06636	119E3	-40.48	<.0001	0.05	-2.8161	-2.5560
year*year*year					1.4021	0.02742	119E3	51.13	<.0001	0.05	1.3484	1.4559
year*year*year					-0.3600	0.004772	119E3	-75.43	<.0001	0.05	-0.3693	-0.3506
yea*yea*yea*year					0.04428	0.000292	119E3	151.52	<.0001	0.05	0.04371	0.04485
ye*ye*ye*yea*yea*yea					-0.00209	0	119E3	-Infty	<.0001			
age					0.003025	0.000677	119E3	4.47	<.0001	0.05	0.001698	0.004351
gender			1		0.2075	0.7619	119E3	0.27	0.7853	0.05	-1.2858	1.7008
gender			2		0.1728	0.7617	119E3	0.23	0.8205	0.05	-1.3200	1.6657
gender			0		0							
region		1			-0.04333	0.03208	119E3	-1.35	0.1767	0.05	-0.1062	0.01954
region		2			0.03376	0.03054	119E3	1.11	0.2691	0.05	-0.02611	0.09362
region		3			0.005645	0.04144	119E3	0.14	0.8917	0.05	-0.07558	0.08687

Solutions for Fixed Effects												
Effect	Trt_Step	region	gender	Insurance	Estimate	Standard Error	DF	t Value	Pr > t	Alpha	Lower	Upper
region		4			0							
ССІ					0.04105	0.02007	119E3	2.05	0.0408	0.05	0.001721	0.08038
Insurance				2	0.09191	0.1712	119E3	0.54	0.5913	0.05	-0.2436	0.4274
Insurance				3	-0.1402	0.05726	119E3	-2.45	0.0144	0.05	-0.2524	-0.02796
Insurance				4	0.005312	0.1505	119E3	0.04	0.9718	0.05	-0.2896	0.3003
Insurance				5	-0.01381	0.03649	119E3	-0.38	0.7052	0.05	-0.08533	0.05772
Insurance				6	0.04194	0.1708	119E3	0.25	0.8060	0.05	-0.2928	0.3766
Insurance				1	0							

Odds Ratio Estimates													
region	gender	Insurance	year	age	ССІ	_region	_gender	_Insurance	_year	_age	_cci	Estimate	DF
			2.851	31.521	0.3258				1.851	31.521	0.3258	0.923	4999
			1.851	32.521	0.3258				1.851	31.521	0.3258	1.003	119E3
			1.851	31.521	1.3258				1.851	31.521	0.3258	1.042	119E3
	1		1.851	31.521	0.3258		0		1.851	31.521	0.3258	1.231	119E3
	2		1.851	31.521	0.3258		0		1.851	31.521	0.3258	1.189	119E3
1			1.851	31.521	0.3258	4			1.851	31.521	0.3258	0.958	119E3
2			1.851	31.521	0.3258	4			1.851	31.521	0.3258	1.034	119E3
3			1.851	31.521	0.3258	4			1.851	31.521	0.3258	1.006	119E3
		2	1.851	31.521	0.3258			1	1.851	31.521	0.3258	1.096	119E3
		3	1.851	31.521	0.3258			1	1.851	31.521	0.3258	0.869	119E3
		4	1.851	31.521	0.3258			1	1.851	31.521	0.3258	1.005	119E3
		5	1.851	31.521	0.3258			1	1.851	31.521	0.3258	0.986	119E3
		6	1.851	31.521	0.3258			1	1.851	31.521	0.3258	1.043	119E3

Effects of continuous variables are assessed as one unit offsets from the mean. The AT suboption modifies the reference value and the UNIT suboption modifies the offsets.

Odds Ratio Estimates													
region	gender	Insurance	year	age	CCI	_region	_gender	_Insurance	_year	_age	_ccı	95% Confidence Limits	
			2.851	31.521	0.3258				1.851	31.521	0.3258	0.903	0.943
			1.851	32.521	0.3258				1.851	31.521	0.3258	1.002	1.004
			1.851	31.521	1.3258				1.851	31.521	0.3258	1.002	1.084
	1		1.851	31.521	0.3258		0		1.851	31.521	0.3258	0.276	5.479
	2		1.851	31.521	0.3258		0		1.851	31.521	0.3258	0.267	5.289
1			1.851	31.521	0.3258	4			1.851	31.521	0.3258	0.899	1.020
2			1.851	31.521	0.3258	4			1.851	31.521	0.3258	0.974	1.098
3			1.851	31.521	0.3258	4			1.851	31.521	0.3258	0.927	1.091
		2	1.851	31.521	0.3258			1	1.851	31.521	0.3258	0.784	1.533
		3	1.851	31.521	0.3258			1	1.851	31.521	0.3258	0.777	0.972
		4	1.851	31.521	0.3258			1	1.851	31.521	0.3258	0.749	1.350
		5	1.851	31.521	0.3258			1	1.851	31.521	0.3258	0.918	1.059
		6	1.851	31.521	0.3258			1	1.851	31.521	0.3258	0.746	1.457

Effects of continuous variables are assessed as one unit offsets from the mean. The AT suboption modifies the reference value and the UNIT suboption modifies the offsets.

The SAS System

Type III Tests of Fixed Effects										
Effect	Num DF	Den DF	F Value	Pr > F						
year	1	4999	1224.74	<.0001						
year*year	1	119E3	1638.24	<.0001						
year*year*year	1	119E3	2613.98	<.0001						
year*year*year	1	119E3	5689.63	<.0001						
yea*yea*yea*year	1	119E3	22958.4	<.0001						
ye*ye*ye*yea*yea*yea	1	119E3	Infty	<.0001						
age	1	119E3	19.97	<.0001						
gender	2	119E3	1.03	0.3558						
region	3	119E3	2.10	0.0975						
ССІ	1	119E3	4.19	0.0408						
Insurance	5	119E3	1.30	0.2602						