The CORR Procedure

ms=0

4 Variables:	у7	y8	y9	y10	
Freq Variable:	cou	nt			

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
у7	350	0.16000	0.36713	56.00000	0	1.00000
у8	350	0.14857	0.35617	52.00000	0	1.00000
у9	350	0.14286	0.35043	50.00000	0	1.00000
y10	350	0.10571	0.30791	37.00000	0	1.00000

Pearson Correlation Coefficients, N = 350					
	у7	y8	y9	y10	
у7	1.00000	0.34359	0.28953	0.30619	
у8	0.34359	1.00000	0.42634	0.32666	
у9	0.28953	0.42634	1.00000	0.39074	
y10	0.30619	0.32666	0.39074	1.00000	

The CORR Procedure

ms=1

4 Variables:	у7	y8	у9	y10
Freq Variable:	cour	nt		

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
у7	187	0.16578	0.37288	31.00000	0	1.00000
у8	187	0.20856	0.40737	39.00000	0	1.00000
у9	187	0.18717	0.39109	35.00000	0	1.00000
y10	187	0.13904	0.34691	26.00000	0	1.00000

Pearson Correlation Coefficients, N = 187					
	у7	y8	y9	y10	
у7	1.00000	0.37287	0.33910	0.36117	
у8	0.37287	1.00000	0.46234	0.32632	
у9	0.33910	0.46234	1.00000	0.36194	
y10	0.36117	0.32632	0.36194	1.00000	

Model Information					
Data Set	WORK.B				
Distribution	Binomial				
Link Function	Logit				
Response Variable (Events)	у	Respiratory illness 0=no 1=yes			
Response Variable (Trials)	one				
Frequency Weight Variable	count	Number with this pattern			

Number of Observations Read	128
Number of Observations Used	128
Sum of Frequencies Read	2148
Sum of Frequencies Used	2148
Number of Events	326
Number of Trials	2148

	Class Level Information					
Class	Levels	Values				
id	32	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 28 29 30 31 32				
agefactor	4	-2 -1 0 1				

Response Profile				
Ordered Binary Total Value Outcome Frequency				
1	Event	326		
2	Nonevent	1822		

Parameter Information				
Parameter	Effect			
Prm1	Intercept			
Prm2	ms			
Prm3	age			
Prm4	msxage			

GEE Model Information				
Correlation Structure	Independent			
Within-Subject Effect	agefactor (4 levels)			
Subject Effect	id (32 levels)			
Number of Clusters	32			
Correlation Matrix Dimension	4			
Maximum Cluster Size	4			
Minimum Cluster Size	4			

Working Correlation Matrix				
	Col1 Col2 Col3 Col4			
Row1	1.0000	0.0000	0.0000	0.0000
Row2	0.0000	1.0000	0.0000	0.0000
Row3	0.0000	0.0000	1.0000	0.0000
Row4	0.0000	0.0000	0.0000	1.0000

GEE Fit Criteria		
QIC	1830.3467	
QlCu	1827.4800	

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter Estimate Standard Confidence Limits Z Pr >				Pr > Z		
Intercept	-1.9008	0.1191	-2.1342	-1.6675	-15.96	<.0001
ms	0.3140	0.1878	-0.0542	0.6821	1.67	0.0946
age	-0.1413	0.0582	-0.2554	-0.0272	-2.43	0.0152
msxage	0.0708	0.0883	-0.1022	0.2439	0.80	0.4223

Model Information				
Data Set	WORK.B			
Distribution	Binomial			
Link Function	Logit			
Response Variable (Events)	у	Respiratory illness 0=no 1=yes		
Response Variable (Trials)	one			
Frequency Weight Variable	count	Number with this pattern		

Number of Observations Read	128
Number of Observations Used	128
Sum of Frequencies Read	2148
Sum of Frequencies Used	2148
Number of Events	326
Number of Trials	2148

Class Level Information			
Class	Levels	Values	
id	32	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 28 29 30 31 32	
agefactor	4	-2 -1 0 1	

Response Profile			
		Total Frequency	
1	Event	326	
2	Nonevent	1822	

Parameter Information		
Parameter	Effect	
Prm1	Intercept	
Prm2	ms	
Prm3	age	
Prm4	msxage	

GEE Model Information		
Correlation Structure	Exchangeable	
Within-Subject Effect	agefactor (4 levels)	
Subject Effect	id (32 levels)	
Number of Clusters	32	
Correlation Matrix Dimension	4	
Maximum Cluster Size	4	
Minimum Cluster Size	4	

Working Correlation Matrix				
	Col1 Col2 Col3 Col4			
Row1	1.0000	0.3544	0.3544	0.3544
Row2	0.3544	1.0000	0.3544	0.3544
Row3	0.3544	0.3544	1.0000	0.3544
Row4	0.3544	0.3544	0.3544	1.0000

Exchangeable Working Correlation		
Correlation	0.3543845936	

GEE Fit Criteria		
QIC	1830.3483	
QlCu	1827.4800	

Analysis Of GEE Parameter Estimates								
	Empirical Standard Error Estimates							
95% Standard Confidence Parameter Estimate Error Limits Z Pr > Z								
Intercept	-1.9005	0.1191	-2.1339	-1.6671	-15.96	<.0001		
ms	0.3138	0.1878	-0.0543	0.6820	1.67	0.0948		
age	-0.1412	0.0582	-0.2553	-0.0272	-2.43	0.0152		
msxage	0.0708	0.0883	-0.1022	0.2439	0.80	0.4223		

Model Information					
Data Set	WORK.B				
Distribution	Binomial				
Link Function	Logit				
Response Variable (Events)	у	Respiratory illness 0=no 1=yes			
Response Variable (Trials)	one				
Frequency Weight Variable	count	Number with this pattern			

128
128
2148
2148
326
2148

Class Level Information				
Class	Levels	Values		
id	32	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 28 29 30 31 32		
agefactor	4	-2 -1 0 1		

Response Profile				
Ordered Binary Total Value Outcome Frequency				
1	Event	326		
2	Nonevent	1822		

Parameter Information				
Parameter	Effect			
Prm1	Intercept			
Prm2 ms				
Prm3	age			
Prm4	msxage			

GEE Model Information				
Correlation Structure AR				
Within-Subject Effect	agefactor (4 levels)			
Subject Effect	id (32 levels)			
Number of Clusters	32			
Correlation Matrix Dimension	4			
Maximum Cluster Size	4			
Minimum Cluster Size	4			

Working Correlation Matrix							
	Col1	Col1 Col2 Col3 Col4					
Row1	1.0000	0.3997	0.1597	0.0638			
Row2	0.3997	1.0000	0.3997	0.1597			
Row3	0.1597	0.3997	1.0000	0.3997			
Row4	0.0638	0.1597	0.3997	1.0000			

GEE Fit Criteria			
QIC	1830.6690		
QlCu	1827.7008		

Analysis Of GEE Parameter Estimates								
	Empirical Standard Error Estimates							
Standard Confidence Parameter Estimate Error Limits Z Pr > [2]								
Intercept	-1.9195	0.1200	-2.1547	-1.6843	-15.99	<.0001		
ms	0.2953	0.1900	-0.0771	0.6676	1.55	0.1201		
age	-0.1468	0.0593	-0.2631	-0.0305	-2.47	0.0134		
msxage	0.0815	0.0907	-0.0962	0.2592	0.90	0.3688		

Model Information						
Data Set	WORK.B					
Distribution	Binomial					
Link Function	Logit					
Response Variable (Events)	у	Respiratory illness 0=no 1=yes				
Response Variable (Trials)	one					
Frequency Weight Variable	count	Number with this pattern				

Number of Observations Read	128
Number of Observations Used	128
Sum of Frequencies Read	2148
Sum of Frequencies Used	2148
Number of Events	326
Number of Trials	2148

Class Level Information			
Class	Levels	Values	
id	32	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 28 29 30 31 32	
agefactor	4	-2 -1 0 1	

Response Profile			
Ordered Value	Binary Outcome	Total Frequency	
1	Event	326	
2	Nonevent	1822	

Parameter Information			
Parameter	Effect		
Prm1	Intercept		
Prm2	ms		
Prm3	age		
Prm4	msxage		

GEE Model Information			
Correlation Structure	Unstructured		
Within-Subject Effect	agefactor (4 levels)		
Subject Effect	id (32 levels)		
Number of Clusters	32		
Correlation Matrix Dimension	4		
Maximum Cluster Size	4		
Minimum Cluster Size	4		

ERROR: Error in estimation routine.

Working Correlation Matrix					
	Col1	Col2	Col3	Col4	
Row1	10405.5	17031.1	30838.6	58153.6	
Row2	17031.1	34819.0	58112.0	107514	
Row3	30838.6	58112.0	115734	198315	
Row4	58153.6	107514	198315	398681	

GEE Fit Criteria				
QIC	0.0000			
QlCu	0.0000			

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		z	Pr > Z
Intercept	5.9553					
ms	1131.447					
age	1.1945					
msxage	142.3661					