Data Set	WORK.DENTALCLEAN	
Dependent Variable	attachchange	
Selection Method	Stepwise	
Select Criterion	Significance Level	
Stop Criterion	Significance Leve	
Entry Significance Level (SLE)	0.15	
Stay Significance Level (SLS)	0.05	
Effect Hierarchy Enforced	None	

Number of Observations Read	130
Number of Observations Used	101

Class Level Information					
Class Levels Values					
trtgroup	5	12345			
sex	2	1 2			
race	4	1245			
smoker	2	0 1			

Dimensions		
Number of Effects	128	
Number of Parameters	1368	

	Stepwise Selection Summary						
Step	Step Effect Effect Removed Effects In Parms In F Value Pr >					Pr > F	
0	Intercept		1	1	0.00	1.0000	
1	attachbase*smoker		2	3	15.47	<.0001	
2	smoker		3	4	9.77	0.0023	

Selection stopped because the candidate for entry has SLE > 0.15 and the candidate for removal has SLS < 0.05.

Stop Details					
Candidate For Effect Candidate Significance Significance					
Entry	attachbase*sex	0.1771	>	0.1500	(SLE)
Removal	smoker	0.0023	<	0.0500	(SLS)

#### The GLMSELECT Procedure **Selected Model**

The selected model is the model at the last step (Step 2).

**Effects:** Intercept smoker attachbase\*smoker

Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value		
Model	3	2.34261	0.78087	14.49		
Error	97	5.22730	0.05389			
Corrected Total	100	7.56992				

Root MSE	0.23214
Dependent Mean	-0.09561
R-Square	0.3095
Adj R-Sq	0.2881
AIC	-188.08370
AICC	-187.45213
SBC	-280.62322

Parameter Estimates					
Parameter	DF	Estimate	Standard Error	t Value	
Intercept	1	-0.052165	0.109709	-0.48	
smoker 0	1	0.427770	0.136863	3.13	
smoker 1	0	0			
attachbase*smoker 0	1	-0.235320	0.036459	-6.45	
attachbase*smoker 1	1	-0.000705	0.043601	-0.02	

Data Set	WORK.DENTALCLEAN	
Dependent Variable	pdchange	
Selection Method	Stepwise	
Select Criterion	Significance Level	
Stop Criterion	Significance Level	
Entry Significance Level (SLE)	0.15	
Stay Significance Level (SLS)	0.05	
Effect Hierarchy Enforced	None	

Number of Observations Read	130
Number of Observations Used	101

Class Level Information					
Class	Class Levels Values				
trtgroup	5	12345			
sex	2	12			
race	4	1245			
smoker	2	0 1			

Dimensions			
Number of Effects	128		
Number of Parameters	1368		

	Stepwise Selection Summary									
Step	Effect Entered	Effect Removed	Number Effects In	Number Parms In	F Value	Pr > F				
0	Intercept		1	1	0.00	1.0000				
1	pdbase*age*sites*sex		2	3	4.54	0.0131				
2	trtgroup		3	7	1.85	0.1260				
3		trtgroup	2	3	1.85	0.1260				

Stepwise selection stopped because the sequence of effect additions and removals is cycling.

# The GLMSELECT Procedure Selected Model

The selected model is the model at the last step (Step 3).

Effects:
----------

Analysis of Variance								
Source DF Squares Square F Value								
Model	2	0.61681	0.30841	4.54				
Error	98	6.66259	0.06799					
Corrected Total	100	7.27940						

Root MSE	0.26074
Dependent Mean	-0.29549
R-Square	0.0847
Adj R-Sq	0.0661
AIC	-165.57986
AICC	-165.16319
SBC	-260.73450

Parameter Estimates							
Parameter DF Estimate Error t Val							
Intercept	1	-0.117468	0.115327	-1.02			
pdbase*age*sites*sex 1	1	-0.000003812	0.000004948	-0.77			
pdbase*age*sites*sex 2	1	-0.000008793	0.000004434	-1.98			

Class Level Information						
Class	Levels	Values				
trtgroup	5	12345				
sex	2	1 2				
race	4	1245				
smoker	2	0 1				

Number of Observations Read	130
Number of Observations Used	102

### Dependent Variable: attachchange

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	2.71321381	0.38760197	7.21	<.0001
Error	94	5.05532843	0.05378009		
Corrected Total	101	7.76854225			

R-Square	Coeff Var	Root MSE	attachchange Mean
0.349256	-231.9145	0.231905	-0.099996

Source	DF	Type I SS	Mean Square	F Value	Pr > F
attachbase	1	1.33138024	1.33138024	24.76	<.0001
trtgroup	4	0.50892322	0.12723080	2.37	0.0584
smoker	1	0.23125696	0.23125696	4.30	0.0408
attachbase*smoker	1	0.64165339	0.64165339	11.93	0.0008

Source	DF	Type III SS	Mean Square	F Value	Pr > F
attachbase	1	0.84986209	0.84986209	15.80	0.0001
trtgroup	4	0.17548072	0.04387018	0.82	0.5183
smoker	1	0.34774201	0.34774201	6.47	0.0126
attachbase*smoker	1	0.64165339	0.64165339	11.93	0.0008

Parameter	Estimate		Standard Error	t Value	Pr >  t
Intercept	0557964030	В	0.12833734	-0.43	0.6647
attachbase	0145346110	В	0.04633604	-0.31	0.7545
trtgroup 1	0.0182707017	В	0.07741583	0.24	0.8139
trtgroup 2	0152554893	В	0.07584207	-0.20	0.8410
trtgroup 3	0.0679688055	В	0.07864681	0.86	0.3897
trtgroup 4	0.1024068595	В	0.07976906	1.28	0.2024
trtgroup 5	0.0000000000	В			
smoker 0	0.3673137987	В	0.14445062	2.54	0.0126
smoker 1	0.0000000000	В			
attachbase*smoker 0	2063128074	В	0.05972920	-3.45	0.0008
attachbase*smoker 1	0.0000000000	В			

Note: The X'X matrix has been found to be singular, and a generalized inverse was used to solve the normal equations. Terms whose estimates are followed by the letter 'B' are not uniquely estimable.

Class Level Information					
Class Levels Values					
trtgroup	5	12345			
sex	2	1 2			
race	4	1245			
smoker	2	0 1			

Number of Observations Read	130
Number of Observations Used	101

## **Dependent Variable: pdchange**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	1.14231141	0.16318734	2.47	0.0226
Error	93	6.13708992	0.06599021		
Corrected Total	100	7.27940133			

R-Square	Coeff Var	Root MSE	pdchange Mean
0.156924	-86.93455	0.256886	-0.295493

Source	DF	Type I SS	Mean Square	F Value	Pr > F
pdbase	1	0.30035981	0.30035981	4.55	0.0355
trtgroup	4	0.52406935	0.13101734	1.99	0.1031
pdbase*age*sites*sex	2	0.31788226	0.15894113	2.41	0.0955

Source	DF	Type III SS	Mean Square	F Value	Pr > F
pdbase	1	0.03954990	0.03954990	0.60	0.4408
trtgroup	4	0.48245352	0.12061338	1.83	0.1301
pdbase*age*sites*sex	2	0.31788226	0.15894113	2.41	0.0955

Parameter	Estimate		Standard Error	t Value	Pr >  t
Intercept	0511354501	В	0.19915704	-0.26	0.7979
pdbase	0499461498		0.06451624	-0.77	0.4408
trtgroup 1	0165411004	В	0.08644838	-0.19	0.8487
trtgroup 2	0.0328487972	В	0.08452069	0.39	0.6984
trtgroup 3	0.1527332208	В	0.08656917	1.76	0.0810
trtgroup 4	0.1329387050	В	0.08872449	1.50	0.1374
trtgroup 5	0.0000000000	В			
pdbase*age*sites*sex 1	0000031046		0.00000532	-0.58	0.5611
pdbase*age*sites*sex 2	0000072671		0.00000510	-1.42	0.1575

**Note:** The X'X matrix has been found to be singular, and a generalized inverse was used to solve the normal equations. Terms whose estimates are followed by the letter 'B' are not uniquely estimable.