

## The CONTENTS Procedure

<b>Data Set Name</b>	WORK.CHS_CLEAN	<b>Observations</b>	10076
<b>Member Type</b>	DATA	<b>Variables</b>	13
<b>Engine</b>	V9	<b>Indexes</b>	0
<b>Created</b>	12/02/2019 12:09:19	<b>Observation Length</b>	104
<b>Last Modified</b>	12/02/2019 12:09:19	<b>Deleted Observations</b>	0
<b>Protection</b>		<b>Compressed</b>	NO
<b>Data Set Type</b>		<b>Sorted</b>	NO
<b>Label</b>			
<b>Data Representation</b>	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
<b>Encoding</b>	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information	
<b>Data Set Page Size</b>	131072
<b>Number of Data Set Pages</b>	9
<b>First Data Page</b>	1
<b>Max Obs per Page</b>	1258
<b>Obs in First Data Page</b>	1224
<b>Number of Data Set Repairs</b>	0
<b>Filename</b>	/saswork/SAS_work3B8A0001D373_odaws02-prod-us.oda.sas.com/SAS_work240D0001D373_odaws02-prod-us.oda.sas.com/chs_clean.sas7bdat
<b>Release Created</b>	9.0401M6
<b>Host Created</b>	Linux
<b>Inode Number</b>	5319126
<b>Access Permission</b>	rw-r--r--
<b>Owner Name</b>	u44125038
<b>File Size</b>	1MB
<b>File Size (bytes)</b>	1310720

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
10	agegroup	Num	8	BEST12.	BEST32.
9	birthsex	Num	8	BEST12.	BEST32.
5	didntgetcare18	Num	8	BEST12.	BEST32.
11	education	Num	8	BEST12.	BEST32.
8	imputed_neighpovgroup4_1317	Num	8	BEST12.	BEST32.
7	imputed_povertygroup	Num	8	BEST12.	BEST32.
2	insure5	Num	8	BEST12.	BEST32.

**The CONTENTS Procedure**

<b>Alphabetic List of Variables and Attributes</b>					
<b>#</b>	<b>Variable</b>	<b>Type</b>	<b>Len</b>	<b>Format</b>	<b>Informat</b>
<b>3</b>	insured	Num	8	BEST12.	BEST32.
<b>6</b>	medcost18	Num	8	BEST12.	BEST32.
<b>1</b>	newrace	Num	8	BEST12.	BEST32.
<b>4</b>	pcp18	Num	8	BEST12.	BEST32.
<b>12</b>	strata	Num	8	BEST12.	BEST32.
<b>13</b>	wt19_dual	Num	8	BEST12.	BEST32.

### The SURVEYLOGISTIC Procedure

Model Information	
Data Set	WORK.CHS_CLEAN
Response Variable	pcp18
Number of Response Levels	2
Stratum Variable	strata
Number of Strata	68
Weight Variable	wt19_dual
Model	Binary Logit
Optimization Technique	Fisher's Scoring
Variance Adjustment	Degrees of Freedom (DF)

Variance Estimation	
Method	Taylor Series
Variance Adjustment	Degrees of Freedom (DF)

Number of Observations Read	10076
Number of Observations Used	9638
Sum of Weights Read	6670172
Sum of Weights Used	6366991

Response Profile			
Ordered Value	pcp18	Total Frequency	Total Weight
1	1	8436	5370106.3
2	2	1202	996885.0

**Probability modeled is pcp18='1'.**

**Note:** 438 observations were deleted due to missing values for the response or explanatory variables.

Class Level Information					
Class	Value	Design Variables			
newrace	1	0	0	0	0
	2	1	0	0	0
	3	0	1	0	0
	4	0	0	1	0
	5	0	0	0	1
insured	1	0			
	2	1			
imputed_povertygroup	1	0	0	0	0

### The SURVEYLOGISTIC Procedure

Class Level Information					
Class	Value	Design Variables			
	2	1	0	0	0
	3	0	1	0	0
	4	0	0	1	0
	5	0	0	0	1
birthsex	1	0			
	2	1			
agegroup	1	0	0	0	
	2	1	0	0	
	3	0	1	0	
	4	0	0	1	
education	1	0	0	0	
	2	1	0	0	
	3	0	1	0	
	4	0	0	1	

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	5525780.0	4501683.3
SC	5525793.6	4501915.6
-2 Log L	5525778.0	4501649.3

Testing Global Null Hypothesis: BETA=0				
Test	F Value	Num DF	Den DF	Pr > F
Likelihood Ratio	96.87	15.9995	153116	<.0001
Score	38.14	16	9555	<.0001
Wald	34.17	16	9555	<.0001
NOTE: Second-order Rao-Scott design correction 0.0000 applied to the Likelihood Ratio test.				

### The SURVEYLOGISTIC Procedure

Type 3 Analysis of Effects				
Effect	F Value	Num DF	Den DF	Pr > F
newrace	6.22	4	9567	<.0001
insured	322.40	1	9570	<.0001
imputed_povertygroup	1.43	4	9567	0.2214
birthsex	22.68	1	9570	<.0001
agegroup	35.84	3	9568	<.0001
education	1.35	3	9568	0.2550

Analysis of Maximum Likelihood Estimates					
Parameter		Estimate	Standard Error	t Value	Pr >  t
Intercept		1.1589	0.2366	4.90	<.0001
newrace	2	0.3262	0.1587	2.06	0.0399
newrace	3	-0.2606	0.1360	-1.92	0.0553
newrace	4	0.3365	0.1770	1.90	0.0573
newrace	5	-0.3749	0.2872	-1.31	0.1918
insured	2	-2.1673	0.1207	-17.96	<.0001
imputed_povertygroup	2	0.1645	0.1500	1.10	0.2728
imputed_povertygroup	3	0.0636	0.1507	0.42	0.6733
imputed_povertygroup	4	-0.0875	0.1689	-0.52	0.6042
imputed_povertygroup	5	0.3144	0.1880	1.67	0.0945
birthsex	2	0.4767	0.1001	4.76	<.0001
agegroup	2	0.2972	0.1569	1.89	0.0582
agegroup	3	1.1694	0.1746	6.70	<.0001
agegroup	4	1.5741	0.2111	7.46	<.0001
education	2	0.0804	0.1567	0.51	0.6078
education	3	0.1575	0.1705	0.92	0.3558
education	4	-0.1241	0.1650	-0.75	0.4521
NOTE: The degrees of freedom for the t tests is 9570.					

### The SURVEYLOGISTIC Procedure

Odds Ratio Estimates				
Effect		Point Estimate	95% Confidence Limits	
newrace	2 vs 1	1.386	1.015	1.891
newrace	3 vs 1	0.771	0.590	1.006
newrace	4 vs 1	1.400	0.990	1.981
newrace	5 vs 1	0.687	0.391	1.207
insured	2 vs 1	0.114	0.090	0.145
imputed_povertygroup	2 vs 1	1.179	0.879	1.582
imputed_povertygroup	3 vs 1	1.066	0.793	1.432
imputed_povertygroup	4 vs 1	0.916	0.658	1.276
imputed_povertygroup	5 vs 1	1.369	0.947	1.979
birthsex	2 vs 1	1.611	1.324	1.960
agegroup	2 vs 1	1.346	0.990	1.831
agegroup	3 vs 1	3.220	2.287	4.534
agegroup	4 vs 1	4.826	3.191	7.299
education	2 vs 1	1.084	0.797	1.474
education	3 vs 1	1.171	0.838	1.635
education	4 vs 1	0.883	0.639	1.221
<b>NOTE:</b> The degrees of freedom in computing the confidence limits is 9570.				

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	76.9	Somers' D	0.546
Percent Discordant	22.3	Gamma	0.551
Percent Tied	0.8	Tau-a	0.119
Pairs	10140072	c	0.773

### The SURVEYLOGISTIC Procedure

Model Information	
Data Set	WORK.CHS_CLEAN
Response Variable	didntgetcare18
Number of Response Levels	2
Stratum Variable	strata
Number of Strata	68
Weight Variable	wt19_dual
Model	Binary Logit
Optimization Technique	Fisher's Scoring
Variance Adjustment	Degrees of Freedom (DF)

Variance Estimation	
Method	Taylor Series
Variance Adjustment	Degrees of Freedom (DF)

Number of Observations Read	10076
Number of Observations Used	9638
Sum of Weights Read	6670172
Sum of Weights Used	6375420

Response Profile			
Ordered Value	didntgetcare18	Total Frequency	Total Weight
1	1	1019	706062.5
2	2	8619	5669357.8

**Probability modeled is didntgetcare18='1'.**

**Note:** 438 observations were deleted due to missing values for the response or explanatory variables.

Class Level Information					
Class	Value	Design Variables			
newrace	1	0	0	0	0
	2	1	0	0	0
	3	0	1	0	0
	4	0	0	1	0
	5	0	0	0	1
insured	1	0			
	2	1			
imputed_povertygroup	1	0	0	0	0

### The SURVEYLOGISTIC Procedure

Class Level Information					
Class	Value	Design Variables			
	2	1	0	0	0
	3	0	1	0	0
	4	0	0	1	0
	5	0	0	0	1
birthsex	1	0			
	2	1			
agegroup	1	0	0	0	
	2	1	0	0	
	3	0	1	0	
	4	0	0	1	
education	1	0	0	0	
	2	1	0	0	
	3	0	1	0	
	4	0	0	1	

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	4438257.4	4320854.3
SC	4438271.1	4321086.7
-2 Log L	4438255.4	4320820.3

Testing Global Null Hypothesis: BETA=0				
Test	F Value	Num DF	Den DF	Pr > F
Likelihood Ratio	11.09	15.9993	153113	<.0001
Score	4.53	16	9555	<.0001
Wald	4.75	16	9555	<.0001
NOTE: Second-order Rao-Scott design correction 0.0000 applied to the Likelihood Ratio test.				



## The SURVEYLOGISTIC Procedure

Type 3 Analysis of Effects				
Effect	F Value	Num DF	Den DF	Pr > F
newrace	2.34	4	9567	0.0525
insured	24.94	1	9570	<.0001
imputed_povertygroup	2.30	4	9567	0.0565
birthsex	0.06	1	9570	0.8127
agegroup	5.40	3	9568	0.0010
education	1.47	3	9568	0.2209

Analysis of Maximum Likelihood Estimates					
Parameter		Estimate	Standard Error	t Value	Pr >  t
Intercept		-2.5601	0.2869	-8.92	<.0001
newrace	2	-0.3258	0.1496	-2.18	0.0295
newrace	3	0.0187	0.1435	0.13	0.8963
newrace	4	-0.1300	0.1854	-0.70	0.4833
newrace	5	0.4229	0.3231	1.31	0.1907
insured	2	0.6819	0.1365	4.99	<.0001
imputed_povertygroup	2	-0.1484	0.1444	-1.03	0.3042
imputed_povertygroup	3	-0.0679	0.1461	-0.46	0.6422
imputed_povertygroup	4	-0.2163	0.1720	-1.26	0.2086
imputed_povertygroup	5	-0.5611	0.1953	-2.87	0.0041
birthsex	2	0.0248	0.1047	0.24	0.8127
agegroup	2	0.7187	0.2070	3.47	0.0005
agegroup	3	0.6039	0.2115	2.85	0.0043
agegroup	4	0.3333	0.2319	1.44	0.1507
education	2	-0.1614	0.1662	-0.97	0.3315
education	3	0.1299	0.1684	0.77	0.4406
education	4	0.1214	0.1677	0.72	0.4692
NOTE: The degrees of freedom for the t tests is 9570.					

### The SURVEYLOGISTIC Procedure

Odds Ratio Estimates				
Effect		Point Estimate	95% Confidence Limits	
newrace	2 vs 1	0.722	0.538	0.968
newrace	3 vs 1	1.019	0.769	1.350
newrace	4 vs 1	0.878	0.611	1.263
newrace	5 vs 1	1.526	0.810	2.876
insured	2 vs 1	1.978	1.513	2.584
imputed_povertygroup	2 vs 1	0.862	0.650	1.144
imputed_povertygroup	3 vs 1	0.934	0.702	1.244
imputed_povertygroup	4 vs 1	0.806	0.575	1.128
imputed_povertygroup	5 vs 1	0.571	0.389	0.837
birthsex	2 vs 1	1.025	0.835	1.259
agegroup	2 vs 1	2.052	1.367	3.078
agegroup	3 vs 1	1.829	1.208	2.769
agegroup	4 vs 1	1.396	0.886	2.199
education	2 vs 1	0.851	0.614	1.179
education	3 vs 1	1.139	0.819	1.584
education	4 vs 1	1.129	0.813	1.568
<b>NOTE:</b> The degrees of freedom in computing the confidence limits is 9570.				

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	59.1	Somers' D	0.201
Percent Discordant	39.1	Gamma	0.204
Percent Tied	1.8	Tau-a	0.038
Pairs	8782761	c	0.600

### The SURVEYLOGISTIC Procedure

Model Information	
Data Set	WORK.CHS_CLEAN
Response Variable	medcost18
Number of Response Levels	2
Stratum Variable	strata
Number of Strata	68
Weight Variable	wt19_dual
Model	Binary Logit
Optimization Technique	Fisher's Scoring
Variance Adjustment	Degrees of Freedom (DF)

Variance Estimation	
Method	Taylor Series
Variance Adjustment	Degrees of Freedom (DF)

Number of Observations Read	10076
Number of Observations Used	8778
Sum of Weights Read	6670172
Sum of Weights Used	5625931

Response Profile			
Ordered Value	medcost18	Total Frequency	Total Weight
1	1	813	548985.8
2	2	7965	5076944.7

**Probability modeled is medcost18='1'.**

**Note:** 1298 observations were deleted due to missing values for the response or explanatory variables.

Class Level Information					
Class	Value	Design Variables			
newrace	1	0	0	0	0
	2	1	0	0	0
	3	0	1	0	0
	4	0	0	1	0
	5	0	0	0	1
insure5	1	0	0	0	
	2	1	0	0	
	3	0	1	0	

## The SURVEYLOGISTIC Procedure

Class Level Information					
Class	Value	Design Variables			
	4	0	0	1	
imputed_povertygroup	1	0	0	0	0
	2	1	0	0	0
	3	0	1	0	0
	4	0	0	1	0
	5	0	0	0	1
birthsex	1	0			
	2	1			
agegroup	1	0	0	0	
	2	1	0	0	
	3	0	1	0	
	4	0	0	1	
education	1	0	0	0	
	2	1	0	0	
	3	0	1	0	
	4	0	0	1	

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	3597625.7	3466712.4
SC	3597639.3	3466969.7
-2 Log L	3597623.7	3466674.4

Testing Global Null Hypothesis: BETA=0				
Test	F Value	Num DF	Den DF	Pr > F
Likelihood Ratio	11.35	17.9992	156773	<.0001
Score	4.94	18	8693	<.0001
Wald	4.70	18	8693	<.0001
NOTE: Second-order Rao-Scott design correction 0.0000 applied to the Likelihood Ratio test.				

## The SURVEYLOGISTIC Procedure

Type 3 Analysis of Effects				
Effect	F Value	Num DF	Den DF	Pr > F
newrace	2.39	4	8707	0.0484
insure5	3.46	3	8708	0.0156
imputed_povertygroup	8.67	4	8707	<.0001
birthsex	0.36	1	8710	0.5459
agegroup	8.86	3	8708	<.0001
education	4.15	3	8708	0.0060

Analysis of Maximum Likelihood Estimates					
Parameter		Estimate	Standard Error	t Value	Pr >  t
Intercept		-1.9515	0.3591	-5.43	<.0001
newrace	2	-0.3641	0.1603	-2.27	0.0232
newrace	3	-0.2315	0.1609	-1.44	0.1503
newrace	4	-0.5103	0.2061	-2.48	0.0133
newrace	5	0.2395	0.3956	0.61	0.5450
insure5	2	-0.0419	0.1991	-0.21	0.8335
insure5	3	-0.4960	0.1615	-3.07	0.0021
insure5	4	-0.2035	0.3160	-0.64	0.5196
imputed_povertygroup	2	0.2190	0.1694	1.29	0.1961
imputed_povertygroup	3	-0.2473	0.1858	-1.33	0.1831
imputed_povertygroup	4	-0.2500	0.2125	-1.18	0.2394
imputed_povertygroup	5	-1.1174	0.2498	-4.47	<.0001
birthsex	2	-0.0689	0.1141	-0.60	0.5459
agegroup	2	0.6173	0.2347	2.63	0.0085
agegroup	3	0.1391	0.2411	0.58	0.5639
agegroup	4	-0.2601	0.2835	-0.92	0.3590
education	2	-0.1348	0.2087	-0.65	0.5183
education	3	-0.1766	0.2162	-0.82	0.4142
education	4	0.3106	0.2083	1.49	0.1360
NOTE: The degrees of freedom for the t tests is 8710.					

### The SURVEYLOGISTIC Procedure

Odds Ratio Estimates				
Effect		Point Estimate	95% Confidence Limits	
newrace	2 vs 1	0.695	0.507	0.951
newrace	3 vs 1	0.793	0.579	1.088
newrace	4 vs 1	0.600	0.401	0.899
newrace	5 vs 1	1.271	0.585	2.759
insure5	2 vs 1	0.959	0.649	1.417
insure5	3 vs 1	0.609	0.444	0.836
insure5	4 vs 1	0.816	0.439	1.516
imputed_povertygroup	2 vs 1	1.245	0.893	1.735
imputed_povertygroup	3 vs 1	0.781	0.543	1.124
imputed_povertygroup	4 vs 1	0.779	0.514	1.181
imputed_povertygroup	5 vs 1	0.327	0.200	0.534
birthsex	2 vs 1	0.933	0.746	1.167
agegroup	2 vs 1	1.854	1.170	2.937
agegroup	3 vs 1	1.149	0.716	1.844
agegroup	4 vs 1	0.771	0.442	1.344
education	2 vs 1	0.874	0.581	1.316
education	3 vs 1	0.838	0.549	1.281
education	4 vs 1	1.364	0.907	2.052
<b>NOTE:</b> The degrees of freedom in computing the confidence limits is 8710.				

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	60.3	Somers' D	0.222
Percent Discordant	38.1	Gamma	0.226
Percent Tied	1.6	Tau-a	0.037
Pairs	6475545	c	0.611

### The SURVEYLOGISTIC Procedure

Model Information	
Data Set	WORK.CHS_CLEAN
Response Variable	insured
Number of Response Levels	2
Stratum Variable	strata
Number of Strata	68
Weight Variable	wt19_dual
Model	Binary Logit
Optimization Technique	Fisher's Scoring
Variance Adjustment	Degrees of Freedom (DF)

Variance Estimation	
Method	Taylor Series
Variance Adjustment	Degrees of Freedom (DF)

Number of Observations Read	10076
Number of Observations Used	9691
Sum of Weights Read	6670172
Sum of Weights Used	6403290

Response Profile			
Ordered Value	insured	Total Frequency	Total Weight
1	1	8814	5651747.8
2	2	877	751542.0

**Probability modeled is insured='1'.**

**Note:** 385 observations were deleted due to missing values for the response or explanatory variables.

Class Level Information					
Class	Value	Design Variables			
newrace	1	0	0	0	0
	2	1	0	0	0
	3	0	1	0	0
	4	0	0	1	0
	5	0	0	0	1
imputed_povertygroup	1	0	0	0	0
	2	1	0	0	0
	3	0	1	0	0

### The SURVEYLOGISTIC Procedure

Class Level Information					
Class	Value	Design Variables			
	4	0	0	1	0
	5	0	0	0	1
birthsex	1	0			
	2	1			
agegroup	1	0	0	0	
	2	1	0	0	
	3	0	1	0	
	4	0	0	1	
education	1	0	0	0	
	2	1	0	0	
	3	0	1	0	
	4	0	0	1	

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	4631477.6	4054852.2
SC	4631491.3	4055070.9
-2 Log L	4631475.6	4054820.2

Testing Global Null Hypothesis: BETA=0				
Test	F Value	Num DF	Den DF	Pr > F
Likelihood Ratio	58.19	14.9996	144341	<.0001
Score	27.37	15	9609	<.0001
Wald	18.11	15	9609	<.0001
<b>NOTE:</b> Second-order Rao-Scott design correction 0.0000 applied to the Likelihood Ratio test.				



### The SURVEYLOGISTIC Procedure

Type 3 Analysis of Effects				
Effect	F Value	Num DF	Den DF	Pr > F
newrace	18.77	4	9620	<.0001
imputed_povertygroup	3.77	4	9620	0.0045
birthsex	35.69	1	9623	<.0001
agegroup	20.03	3	9621	<.0001
education	12.20	3	9621	<.0001

Analysis of Maximum Likelihood Estimates					
Parameter		Estimate	Standard Error	t Value	Pr >  t
Intercept		1.5341	0.2666	5.75	<.0001
newrace	2	-0.3460	0.1865	-1.86	0.0636
newrace	3	-1.1192	0.1624	-6.89	<.0001
newrace	4	-0.2479	0.2150	-1.15	0.2489
newrace	5	-0.9770	0.3359	-2.91	0.0036
imputed_povertygroup	2	-0.0706	0.1375	-0.51	0.6078
imputed_povertygroup	3	0.0842	0.1483	0.57	0.5702
imputed_povertygroup	4	0.3789	0.1796	2.11	0.0349
imputed_povertygroup	5	0.7836	0.2435	3.22	0.0013
birthsex	2	0.6346	0.1062	5.97	<.0001
agegroup	2	-0.3478	0.1796	-1.94	0.0529
agegroup	3	0.1681	0.1888	0.89	0.3733
agegroup	4	1.3222	0.2783	4.75	<.0001
education	2	0.6182	0.1457	4.24	<.0001
education	3	0.7938	0.1583	5.01	<.0001
education	4	0.8365	0.1644	5.09	<.0001
NOTE: The degrees of freedom for the t tests is 9623.					

### The SURVEYLOGISTIC Procedure

Odds Ratio Estimates				
Effect		Point Estimate	95% Confidence Limits	
newrace	2 vs 1	0.708	0.491	1.020
newrace	3 vs 1	0.327	0.238	0.449
newrace	4 vs 1	0.780	0.512	1.189
newrace	5 vs 1	0.376	0.195	0.727
imputed_povertygroup	2 vs 1	0.932	0.712	1.220
imputed_povertygroup	3 vs 1	1.088	0.813	1.455
imputed_povertygroup	4 vs 1	1.461	1.027	2.077
imputed_povertygroup	5 vs 1	2.189	1.359	3.528
birthsex	2 vs 1	1.886	1.532	2.323
agegroup	2 vs 1	0.706	0.497	1.004
agegroup	3 vs 1	1.183	0.817	1.713
agegroup	4 vs 1	3.752	2.174	6.474
education	2 vs 1	1.856	1.395	2.469
education	3 vs 1	2.212	1.622	3.016
education	4 vs 1	2.308	1.672	3.186
<b>NOTE:</b> The degrees of freedom in computing the confidence limits is 9623.				

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	75.4	Somers' D	0.515
Percent Discordant	23.8	Gamma	0.519
Percent Tied	0.8	Tau-a	0.085
Pairs	7729878	c	0.758