The LOGISTIC Procedure

Model Information					
Data Set	WORK.SORTTEMPTABLESORTED				
Response Variable	HighPayment				
Number of Response Levels	2				
Model	binary logit				
Optimization Technique	Fisher's scoring				

Number of Observations Read | 26444 Number of Observations Used 26444

Response Profile								
Ordered	Ordered							
Value	HighPayment	Frequency						
1	0	14141						
2	1	12303						

Probability modeled is HighPayment='1'.

Class Level Information										
Class	Value	Design Variables								
BodyPartRegion	Head	1	0	0	0	0	0			
	Lower Extremities	0	1	0	0	0	0			
	Multiple Body Parts	0	0	1	0	0	0			
	Neck	0	0	0	1	0	0			
	Non-Standard Code	0	0	0	0	1	0			
	Trunk						1			
	Upper Extremities	0	0	0	0	0	0			
ClaimantType	Indemnity	1	0							
	Medical Only	0	1							
	Report Only	-1	-1							
Gender	Female	1	0							
	Male	0	1							
	Not Available	-1	-1							
IsDenied	0	1								
	1	-1								
IsFatality	0	1								
	1	-1								

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

Model Fit Statistics							
Criterion Intercept Only Intercept and Covariates							
AIC	36533.314	1901.200					
SC	36541.497	2040.307					
-2 Log L	36531.314	1867.200					

R-Square 0.7304 Max-rescaled R-Square 0.9755

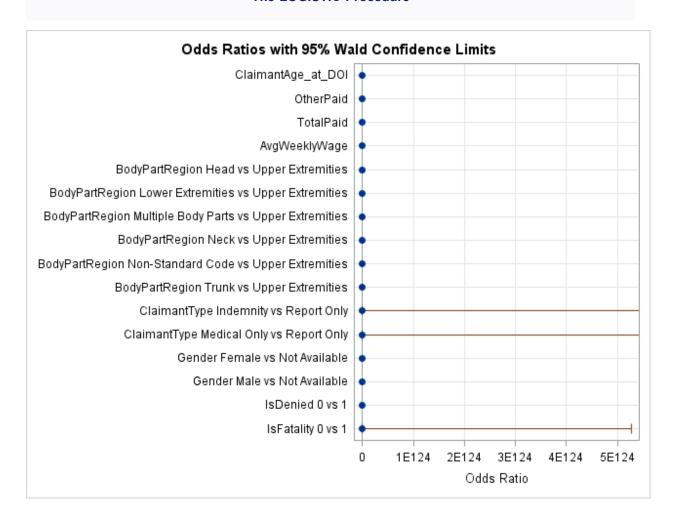
Testing Global Null Hypothesis: BETA=0								
Test Chi-Square DF Pr > ChiS								
Likelihood Ratio	34664.1141	16	<.0001					
Score	10966.1241	16	<.0001					
Wald	953.8861	16	<.0001					

Type 3 Analysis of Effects								
Effect	DF	Chi-Square	Pr > ChiSq					
ClaimantAge_at_DOI	1	0.0896	0.7647					
OtherPaid	1	1.3204	0.2505					
TotalPaid	1	681.8228	<.0001					
AvgWeeklyWage	1	0.2564	0.6126					
BodyPartRegion	6	1.6177	0.9513					
ClaimantType	2	0.5071	0.7760					
Gender	2	0.7914	0.6732					
IsDenied	1	0.9599	0.3272					
IsFatality	1	0.0005	0.9823					

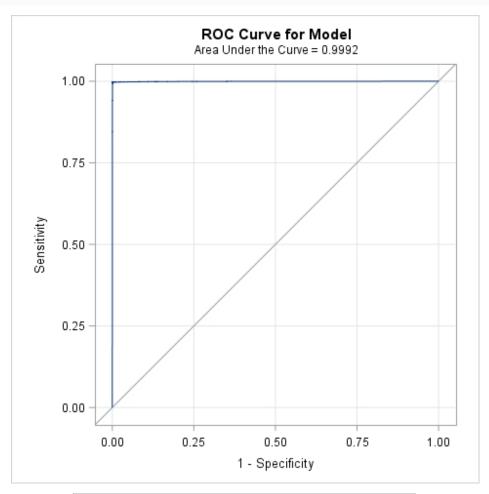
	Analysis of Maximum Likelihood Estimates									
				Standard	Wald					
Parameter		DF	Estimate	Error	Chi-Square	Pr > ChiSq				
Intercept		1	-27.7824	138.3	0.0403	0.8408				
ClaimantAge_at_DOI		1	-0.00154	0.00516	0.0896	0.7647				
OtherPaid		1	0.000968	0.000842	1.3204	0.2505				
TotalPaid		1	0.0408	0.00156	681.8228	<.0001				
AvgWeeklyWage		1	-0.00013	0.000264	0.2564	0.6126				
BodyPartRegion	Head	1	-0.0442	0.2121	0.0435	0.8348				
BodyPartRegion	Lower Extremities	1	-0.0126	0.1584	0.0063	0.9368				
BodyPartRegion	Multiple Body Parts	1	0.0213	0.2086	0.0105	0.9185				
BodyPartRegion	Neck	1	0.2355	0.2988	0.6209	0.4307				
BodyPartRegion	Non-Standard Code	1	-0.6197	0.9040	0.4700	0.4930				
BodyPartRegion	Trunk	1	0.1043	0.1835	0.3233	0.5697				
ClaimantType	Indemnity	1	0.2741	116.8	0.0000	0.9981				
ClaimantType	Medical Only	1	0.1173	116.8	0.0000	0.9992				
Gender	Female	1	0.2857	0.3521	0.6582	0.4172				
Gender	Male	1	0.3120	0.3517	0.7869	0.3750				
IsDenied	0	1	-0.1336	0.1364	0.9599	0.3272				
IsFatality	0	1	-1.6435	74.1010	0.0005	0.9823				

Association of Predicted Probabilities and Observed Responses						
Percent Concordant	99.9	Somers' D	0.998			
Percent Discordant	0.1	Gamma	0.999			
Percent Tied	0.0	Tau-a	0.497			
Pairs	173976723	С	0.999			

Odds Ratio Estimates and Wald Confidence Intervals						
Effect	Unit	Estimate	95% Confi	dence Limits		
ClaimantAge_at_DOI	1.0000	0.998	0.988	1.009		
OtherPaid	1.0000	1.001	0.999	1.003		
TotalPaid	1.0000	1.042	1.038	1.045		
AvgWeeklyWage	1.0000	1.000	0.999	1.000		
BodyPartRegion Head vs Upper Extremities	1.0000	0.957	0.631	1.450		
BodyPartRegion Lower Extremities vs Upper Extremities	1.0000	0.988	0.724	1.347		
BodyPartRegion Multiple Body Parts vs Upper Extremities	1.0000	1.022	0.679	1.538		
BodyPartRegion Neck vs Upper Extremities	1.0000	1.022	0.705	2.273		
BodyPartRegion Non-Standard Code vs Upper				2.42-		
Extremities	1.0000	0.538	0.091	3.165		
BodyPartRegion Trunk vs Upper Extremities	1.0000	1.110	0.775	1.590		
ClaimantType Indemnity vs Report Only	1.0000	1.946	<0.001	>999.999		
ClaimantType Medical Only vs Report Only	1.0000	1.663	<0.001	>999.999		
Gender Female vs Not Available	1.0000	2.419	0.314	18.638		
Gender Male vs Not Available	1.0000	2.483	0.323	19.117		
IsDenied 0 vs 1	1.0000	0.765	0.448	1.307		
IsFatality 0 vs 1	1.0000	0.037	<0.001	>999.999		



The LOGISTIC Procedure



Pa	Partition for the Hosmer and Lemeshow Test									
		HighPay	ment = 1	HighPay	ment = 0					
Group	Total	Observed	Expected	Observed	Expected					
1	8018	4	0.01	8014	8017.99					
2	2640	6	0.04	2634	2639.96					
3	2644	12	19.20	2632	2624.80					
4	2644	1788	1785.90	856	858.10					
5	1291	1290	1290.85	1	0.15					
6	9207	9203	9206.99	4	0.01					

Hosmer and Lemeshow Goodness-of-Fit						
Test						
Chi-Square	DF	Pr > ChiSq				
4686.2993	4	<.0001				

Note: In calculating the Expected values, predicted probabilities less than 1E-6 and greater than 0.999999 were changed to 1E-6 and 0.999999 respectively.

Generated by the SAS System ('Local', X64_DSRV12) on December 03, 2017 at 6:41:31 PM

	Classification Table									
	Cor	rect	Inco	rrect		Pe	rcentages	S		
Prob		Non-		Non-		Sensi-	Speci-	False	False	
Level	Event	Event	Event	Event	Correct	tivity	ficity	POS	NEG	
0.000	12303	0	14141	0	46.5	100.0	0.0	53.5		
0.020	12284	12936	1205	19	95.4	99.8	91.5	8.9	0.1	
0.040	12282	13168	973	21	96.2	99.8	93.1	7.3	0.2	
0.060	12280	13306	835	23	96.8	99.8	94.1	6.4	0.2	
0.080	12279	13391	750	24	97.1	99.8	94.7	5.8	0.2	
0.100	12277	13470	671	26	97.4	99.8	95.3	5.2	0.2	
0.120	12277	13525	616	26	97.6	99.8	95.6	4.8	0.2	
0.140	12277	13583	558	26	97.8	99.8	96.1	4.3	0.2	
0.160	12276	13647	494	27	98.0	99.8	96.5	3.9	0.2	
	12276	13685	456	27	98.2	99.8	96.8	3.6	0.2	
	12276	13724	417	27	98.3	99.8	97.1	3.3	0.2	
0.220		13763	378	28	98.5	99.8	97.3	3.0	0.2	
0.240		13809	332	29	98.6	99.8	97.7	2.6	0.2	
	12273	13837	304	30	98.7	99.8	97.9	2.4	0.2	
	12272	13870	271	31	98.9	99.7	98.1	2.2	0.2	
0.300		13900	241	31	99.0	99.7	98.3	1.9	0.2	
	12272	13927	214	31	99.1	99.7	98.5	1.7	0.2	
0.340		13950	191	32	99.2	99.7	98.6	1.5	0.2	
0.360		13972	169	32	99.2	99.7	98.8	1.4	0.2	
0.380		14004	137	34	99.4	99.7	99.0	1.1	0.2	
	12269	14029	112	34	99.4	99.7	99.2	0.9	0.2	
	12269	14054	87	34	99.5	99.7	99.4	0.7	0.2	
	12269	14075	66	34	99.6	99.7	99.5	0.5	0.2	
	12269	14093	48	34	99.7	99.7	99.7	0.4	0.2	
	12267	14117	24	36	99.8	99.7	99.8	0.2	0.3	
	12257	14127	14	46	99.8	99.6	99.9	0.1	0.3	
	12239	14131	10	64	99.7	99.5	99.9	0.1	0.5	
	12227	14134	7	76	99.7	99.4	100.0	0.1	0.5	
	12206	14135	6	97	99.6	99.2	100.0	0.0	0.7	
0.580		14135	6	117	99.5	99.0	100.0	0.0	0.8	
0.600		14135 14135	6	131	99.5	98.9	100.0	0.0	0.9	
0.620		14135	6	165 189	99.4	98.7 98.5	100.0	0.0	1.2	
0.660		14135	6	218	99.3	98.2	100.0	0.0	1.5	
0.680		14135		233			100.0		1.6	
0.700		14135	6	258	99.1	98.1 97.9	100.0	0.0	1.8	
0.720		14135	6	288	98.9	97.9	100.0	0.0	2.0	
0.740		14135	6	305	98.8	97.5	100.0	0.0	2.1	
0.760		14135	6	331	98.7	97.3	100.0	0.1	2.3	
0.780		14135	6	363	98.6	97.0	100.0	0.1	2.5	
0.800		14135	6	399	98.5	96.8	100.0	0.1	2.7	

Classification Table									
	Correct		Incorrect		Percentages				
Prob		Non-		Non-		Sensi-	Speci-	False	False
Level	Event	Event	Event	Event	Correct	tivity	ficity	POS	NEG
0.820	11875	14135	6	428	98.4	96.5	100.0	0.1	2.9
0.840	11826	14135	6	477	98.2	96.1	100.0	0.1	3.3
0.860	11788	14135	6	515	98.0	95.8	100.0	0.1	3.5
0.880	11749	14135	6	554	97.9	95.5	100.0	0.1	3.8
0.900	11694	14135	6	609	97.7	95.0	100.0	0.1	4.1
0.920	11629	14135	6	674	97.4	94.5	100.0	0.1	4.6
0.940	11549	14136	5	754	97.1	93.9	100.0	0.0	5.1
0.960	11437	14136	5	866	96.7	93.0	100.0	0.0	5.8
0.980	11273	14136	5	1030	96.1	91.6	100.0	0.0	6.8
1.000	0	14141	0	12303	53.5	0.0	100.0		46.5

