The SURVEYFREQ Procedure

Data Summary	
Number of Observations	1447
Sum of Weights	4363

	Table of hosp by hosp_num						
hosp	hosp_num	Frequency	Weighted Frequency	Std Err of Wgt Freq	Percent	Std Err of Percent	
No	0	735	2808	75.19838	64.3594	1.3469	
	1	0					
	Total	735	2808	75.19838	64.3594	1.3469	
Yes	0	0					
	1	712	1555	57.08056	35.6406	1.3469	
	Total	712	1555	57.08056	35.6406	1.3469	
Total	0	735	2808	75.19838	64.3594	1.3469	
	1	712	1555	57.08056	35.6406	1.3469	
	Total	1447	4363	53.60645	100.0000		

Table of co						
со	Frequency	Weighted Frequency	Std Err of Wgt Freq	Percent	Std Err of Percent	
Community-onset	846	2907	72.90100	66.6285	1.3382	
Healthcare-associated	601	1456	58.42348	33.3715	1.3382	
Total	1447	4363	53.60645	100.0000		

The FREQ Procedure

hos	sp	hosp_num	Frequency	Percent	Cumulative Frequency	Cumulative Percent
No		0	2808	64.36	2808	64.36
Yes	;	1	1555	35.64	4363	100.00

со	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Community-onset	2907	66.63	2907	66.63
Healthcare-associated	1456	33.37	4363	100.00

The FREQ Procedure

со	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Community-onset	2907	100.00	2907	100.00

The FREQ Procedure

со	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Healthcare-associated	1456	100.00	1456	100.00

The SURVEYLOGISTIC Procedure

Model Information			
Data Set	WORK.STAPH		
Response Variable	hosp		
Number of Response Levels	2		
Stratum Variable	INVASIVE		
Number of Strata	2		
Weight Variable	WEIGHT		
Model	Binary Logit		
Optimization Technique	Newton-Raphson		
Variance Adjustment	Degrees of Freedom (DF)		

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

Number of Observations Read	1447
Number of Observations Used	1447
Sum of Weights Read	4363
Sum of Weights Used	4363

Response Profile					
Ordered Value	hosp	Total Frequency	Total Weight		
1	No	735	2808.0000		
2	Yes	712	1555.0000		

Probability modeled is hosp='Yes'.

Class Level Information			
Value	Design Variables		
No	0		
Yes	1		
MRSA	1		
MSSA	0		
No	0		
Yes	1		
No	0		
Yes	1		
	Value No Yes MRSA MSSA No Yes No		

The SURVEYLOGISTIC Procedure

Class Level Information					
Class	Class Value Variables				
SMOKER	No	0			
	Yes	1			
BSI	No	0			
	Yes	1			

Stratum Information				
Stratum INVASIVE N Obs				
1	No	953		
2	Yes	494		

Model Convergence Status

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

Model Fit Statistics					
Intercept and Criterion Only Covariates					
AIC	5685.439	4134.144			
sc	5691.820	4185.191			
-2 Log L	5683.439	4118.144			

	R-Square	0.3015	Max-rescaled R-Square	0.4140	ı
-1					ł

Testing Global Null Hypothesis: BETA=0						
Test	F Value	Num DF	Den DF	Pr > F		
Likelihood Ratio	74.16	7.0000	10115	<.0001		
Score	121.72	7	1439	<.0001		
Wald	39.21	7	1439	<.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							
SMOKER	22.54	1	1445	<.0001			
mrsafinal	22.41	1	1445	<.0001			
kidney	13.38	1	1445	0.0003			
DIABETES	35.62	1	1445	<.0001			
BSI	158.48	1	1445	<.0001			
WOUND	15.02	1	1445	0.0001			
newage	9.69	1	1445	0.0019			

Analysis of Maximum Likelihood Estimates					
Parameter		Estimate	Standard Error	t Value	Pr > t
Intercept		-2.3264	0.1864	-12.48	<.0001
SMOKER	Yes	1.0095	0.2126	4.75	<.0001
mrsafinal	MRSA	0.7667	0.1620	4.73	<.0001
kidney	Yes	1.0379	0.2838	3.66	0.0003
DIABETES	Yes	1.1657	0.1953	5.97	<.0001
BSI	Yes	3.6303	0.2884	12.59	<.0001
WOUND	Yes	0.6579	0.1697	3.88	0.0001
newage		0.0108	0.00346	3.11	0.0019
NOTE: 1	The dear	es of freed	om for the t	tests is 1	445.

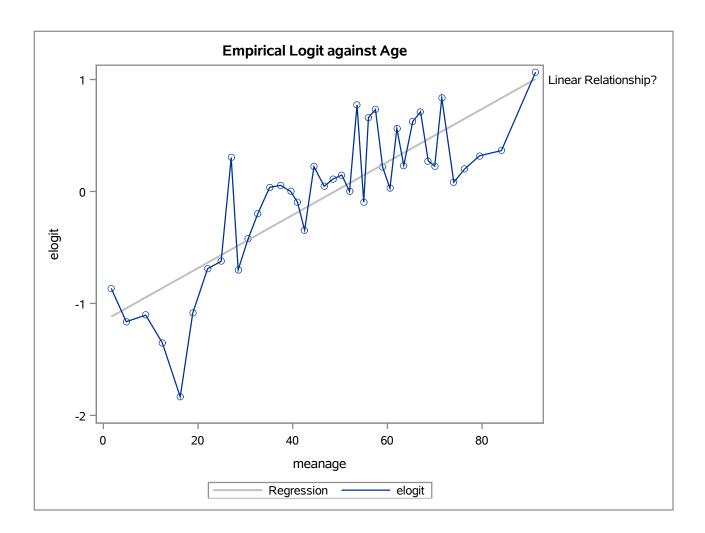
Odds Ratio Estimates					
Effect	Point Estimate				
SMOKER Yes vs No	2.744	1.808	4.164		
mrsafinal MRSA vs MSSA	2.153	1.567	2.958		
kidney Yes vs No	2.823	1.618	4.926		
DIABETES Yes vs No	3.208	2.187	4.706		
BSI Yes vs No	37.725	21.427	66.420		
WOUND Yes vs No	1.931	1.384	2.694		
newage	1.011	1.004	1.018		

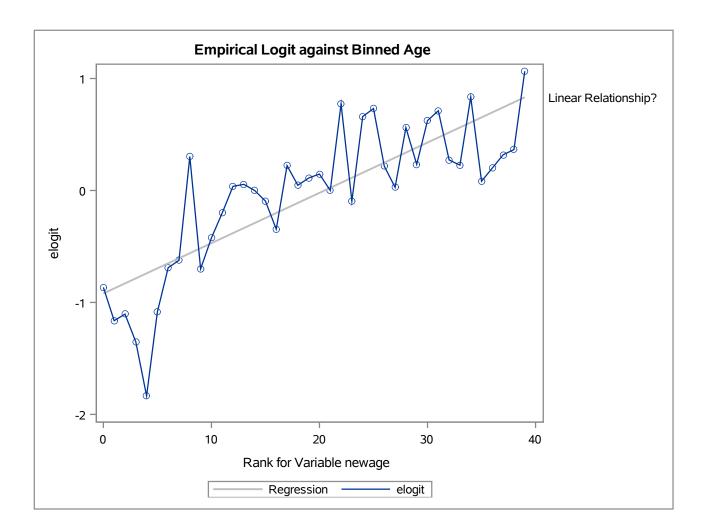
NOTE: The degrees of freedom in computing the confidence limits is 1445.

The SURVEYLOGISTIC Procedure

Association of Predicted Probabilities and Observed Responses					
Percent Concordant 86.4 Somers' D 0.731					
Percent Discordant	13.4	Gamma	0.732		
Percent Tied	0.2	Tau-a	0.366		
Pairs	523320	С	0.865		

	Estimated Correlation Matrix							
Parameter	Intercept	SMOKERYes	mrsafinalMRSA	kidneyYes	DIABETESYes	BSIYes	WOUNDYes	newage
Intercept	1.0000	-0.1785	-0.3593	0.0276	0.0005	-0.1332	-0.1622	-0.7818
SMOKERYes	-0.1785	1.0000	-0.0766	0.0801	0.0184	0.0226	-0.0322	0.0285
mrsafinalMRSA	-0.3593	-0.0766	1.0000	-0.0583	-0.0496	0.0480	0.0557	0.1120
kidneyYes	0.0276	0.0801	-0.0583	1.0000	-0.1249	-0.0402	0.0667	-0.1625
DIABETESYes	0.0005	0.0184	-0.0496	-0.1249	1.0000	0.1465	-0.0995	-0.1909
BSIYes	-0.1332	0.0226	0.0480	-0.0402	0.1465	1.0000	0.1665	-0.0821
WOUNDYes	-0.1622	-0.0322	0.0557	0.0667	-0.0995	0.1665	1.0000	-0.1344
newage	-0.7818	0.0285	0.1120	-0.1625	-0.1909	-0.0821	-0.1344	1.0000





The CORR Procedure

2 Variables: elogit meanage

Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
elogit	40	-0.04369	0.65292	-1.74763	-1.83438	1.06538
meanage	40	47.02262	22.85461	1881	1.65789	91.29730

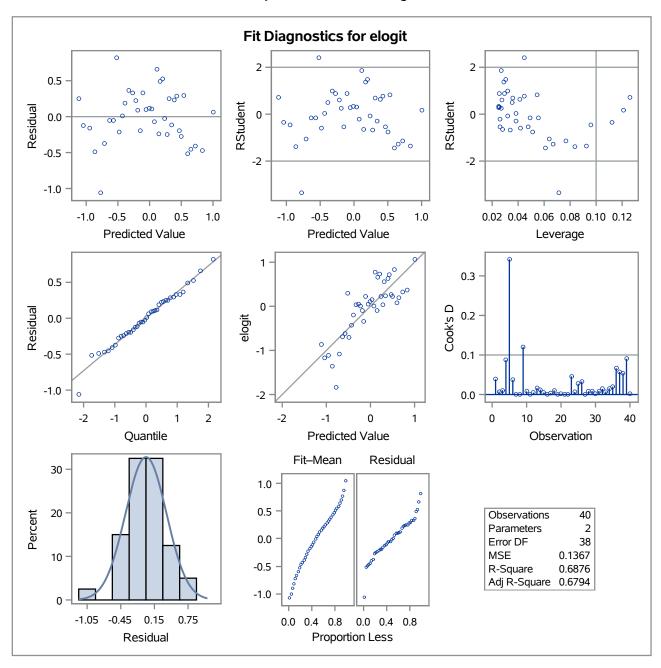
Pearson Correlation Coefficients, N = 40 Prob > r under H0: Rho=0					
elogit meanag					
elogit	1.00000	0.82924 <.0001			
meanage	0.82924 <.0001	1.00000			

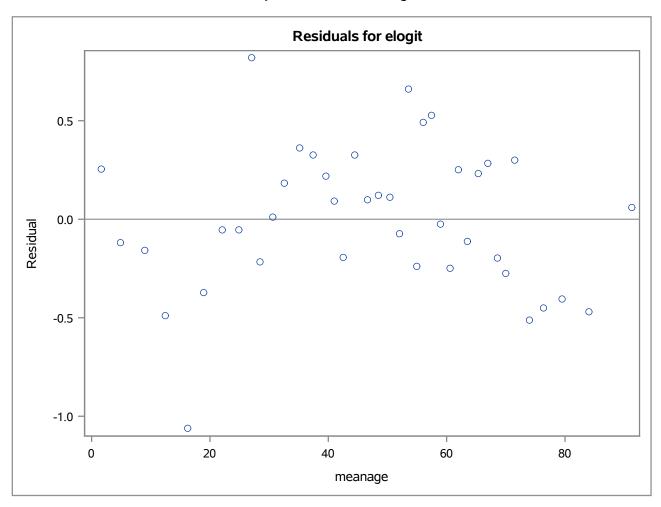
Number of Observations Read	40
Number of Observations Used	40

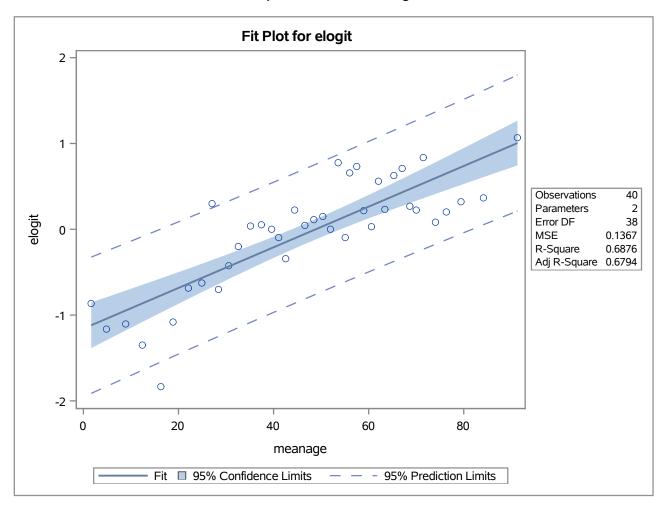
Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model	1	11.43252	11.43252	83.66	<.0001	
Error	38	5.19311	0.13666			
Corrected Total	39	16.62563				

Root MSE	0.36968	R-Square	0.6876
Dependent Mean	-0.04369	Adj R-Sq	0.6794
Coeff Var	-846.12217		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	
Intercept	1	-1.15766	0.13509	-8.57	<.0001	
meanage	1	0.02369	0.00259	9.15	<.0001	







The CORR Procedure

2 Variables: elogit bin

Simple Statistics							
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
elogit	40	-0.04369	0.65292	-1.74763	-1.83438	1.06538	
bin	40	19.50000	11.69045	780.00000	0	39.00000	Rank for Variable newage

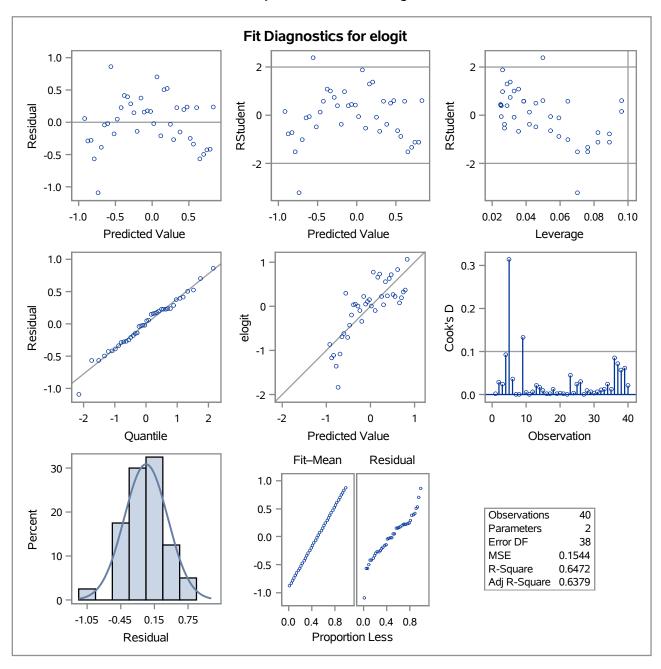
Pearson Correlation Coefficients, N = 40 Prob > r under H0: Rho=0					
	elogit	bin			
elogit	1.00000	0.80448 <.0001			
bin Rank for Variable newage	0.80448 <.0001	1.00000			

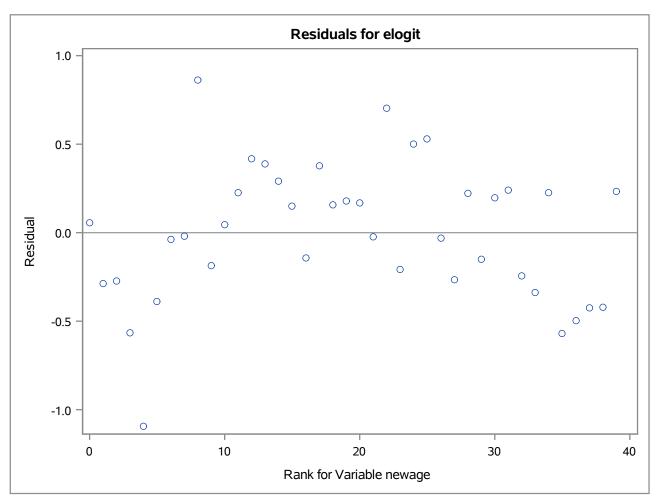
Number of Observations Read	40
Number of Observations Used	40

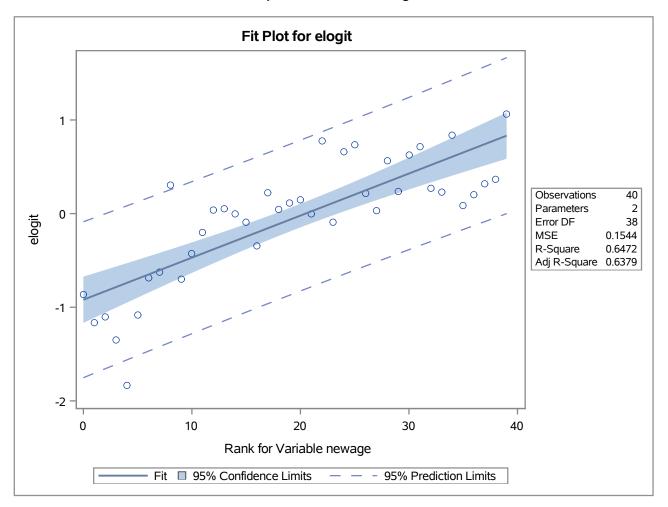
Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model	1	10.76003	10.76003	69.71	<.0001	
Error	38	5.86560	0.15436			
Corrected Total	39	16.62563				

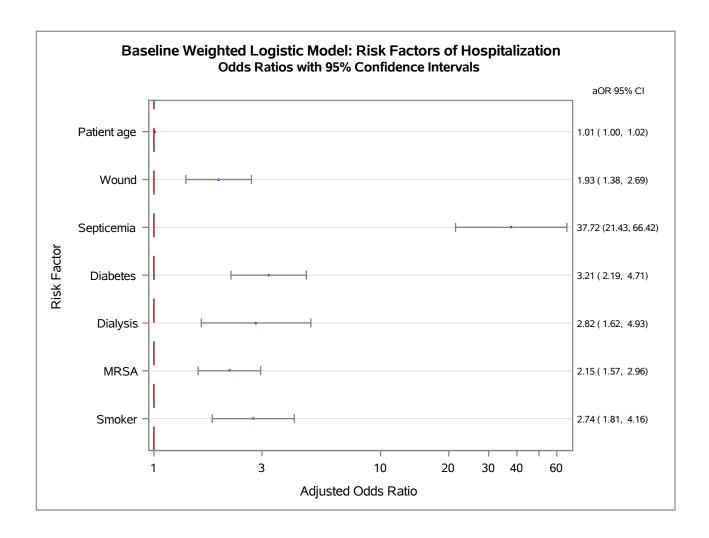
Root MSE	0.39288	R-Square	0.6472
Dependent Mean	-0.04369	Adj R-Sq	0.6379
Coeff Var	-899.23986		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	-0.91984	0.12195	-7.54	<.0001
bin	Rank for Variable newage	1	0.04493	0.00538	8.35	<.0001









Model Information			
Data Set	WORK.COMM		
Response Variable	hosp		
Number of Response Levels	2		
Stratum Variable	INVASIVE		
Number of Strata	2		
Weight Variable	WEIGHT		
Model	Binary Logit		
Optimization Technique	Newton-Raphson		
Variance Adjustment	Degrees of Freedom (DF)		

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

Number of Observations Read	846
Number of Observations Used	846
Sum of Weights Read	2907
Sum of Weights Used	2907

Response Profile				
Ordered Value	hosp	Total Frequency	Total Weight	
1	No	590	2285.0000	
2	Yes	256	622.0000	

Probability modeled is hosp='Yes'.

Class Level Information				
Value	Design Variables			
MRSA	1			
MSSA	0			
No	0			
Yes	1			
No	0			
Yes	1			
No	0			
Yes	1			
	Value MRSA MSSA No Yes No Yes No			

Class Level Information				
Class Value Design				
BSI	No	0		
	Yes	1		
WOUND	No	0		
	Yes	1		

Stratum Information				
Stratum INVASIVE N Obs				
1	No	679		
2	Yes	167		

Model Convergence Status

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

Model Fit Statistics				
Criterion	Intercept an Only Covaria			
AIC	3020.422	2305.551		
sc	3026.397	2353.350		
-2 Log L	3018.422	2289.551		

R-Square	0.2218	Max-rescaled R-Square	0.3433	
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Testing Global Null Hypothesis: BETA=0						
Test F Value Num DF Den DF Pr > F						
Likelihood Ratio	30.28	7.0000	5907.98	<.0001		
Score	36.84	7	838	<.0001		
Wald	24.99	7	838	<.0001		

NOTE:

Second-order Rao-Scott design correction 0.0000 applied to the Likelihood Ratio test.

Type 3 Analysis of Effects							
Effect	F Value Num DF Den DF Pr > F						
SMOKER	20.63	1	844	<.0001			
mrsafinal	9.00	1	844	0.0028			
kidney	2.37	1	844	0.1239			
DIABETES	18.60	1	844	<.0001			
BSI	123.15	1	844	<.0001			
WOUND	8.27	1	844	0.0041			
newage	0.65	1	844	0.4201			

Analysis of Maximum Likelihood Estimates					
Parameter		Estimate	Standard Error	t Value	Pr > t
Intercept		-2.5522	0.2434	-10.49	<.0001
SMOKER	Yes	1.2164	0.2678	4.54	<.0001
mrsafinal	MRSA	0.6836	0.2279	3.00	0.0028
kidney	Yes	0.7472	0.4851	1.54	0.1239
DIABETES	Yes	1.2194	0.2828	4.31	<.0001
BSI	Yes	4.5960	0.4142	11.10	<.0001
WOUND	Yes	0.6934	0.2410	2.88	0.0041
newage		0.00406	0.00504	0.81	0.4201
NOTE:	The degr	ees of freed	dom for the	t tests is 8	344.

Odds Ratio Estimates				
Effect	Point Estimate	95% Confidence Limits		
SMOKER Yes vs No	3.375	1.995 5.709		
mrsafinal MRSA vs MSSA	1.981	1.266	3.098	
kidney Yes vs No	2.111	0.815 5.471		
DIABETES Yes vs No	3.385	1.943 5.897		
BSI Yes vs No	99.091	43.954	223.391	
WOUND Yes vs No	2.000	1.246	3.211	
newage	1.004	0.994	1.014	

NOTE:

The degrees of freedom in computing the confidence limits is 844.

Association of Predicted Probabilities and Observed Responses						
Percent Concordant 83.3 Somers' D 0.674						
Percent Discordant 15.9 Gamma 0.67						
Percent Tied 0.8 Tau-a 0.28						
Pairs	151040	С	0.837			

Model Information			
Data Set WORK.HOP			
Response Variable	hosp		
Number of Response Levels	2		
Stratum Variable	INVASIVE		
Number of Strata	2		
Weight Variable	WEIGHT		
Model	Binary Logit		
Optimization Technique	Newton-Raphson		
Variance Adjustment	Degrees of Freedom (DF)		

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

Number of Observations Read	601
Number of Observations Used	601
Sum of Weights Read	1456
Sum of Weights Used	1456

	Response Profile				
Ordered Total Total Value hosp Frequency Weight					
1	No	145	523.00000		
2	Yes	456	933.00000		

Probability modeled is hosp='Yes'.

Class Level Information			
Value	Design Variables		
MRSA	1		
MSSA	0		
No	0		
Yes	1		
No	0		
Yes	1		
No	0		
Yes	1		
	Value MRSA MSSA No Yes No Yes No		

Class Level Information			
Class	Value	Design Variables	
BSI	No	0	
	Yes	1	
WOUND	No	0	
	Yes	1	

Stratum Information			
Stratum Index	INVASIVE	N Obs	
1	No	274	
2	Yes	327	

Model Convergence Status

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

Model Fit Statistics				
Criterion	Intercept Only	Intercept and Covariates		
AIC	1903.415	1544.926		
sc	1908.698	1587.194		
-2 Log L	1901.415	1528.926		

R-Square	0.2257	Max-rescaled R-Square	0.3096
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Testing Global Null Hypothesis: BETA=0						
Test F Value Num DF Den DF Pr > F						
Likelihood Ratio	21.95	6.9999	4192.96	<.0001		
Score	593	<.0001				
Wald	10.58	7	593	<.0001		

NOTE:

Second-order Rao-Scott design correction 0.0000 applied to the Likelihood Ratio test.

Type 3 Analysis of Effects								
Effect	Effect F Value Num DF Den DF Pr > F							
SMOKER	4.50	1	599	0.0342				
mrsafinal	7.76	1	599	0.0055				
kidney	4.68	1	599	0.0309				
DIABETES	12.32	1	599	0.0005				
BSI	36.32	1	599	<.0001				
WOUND	0.17	1	599	0.6819				
newage	1.27	1	599	0.2608				

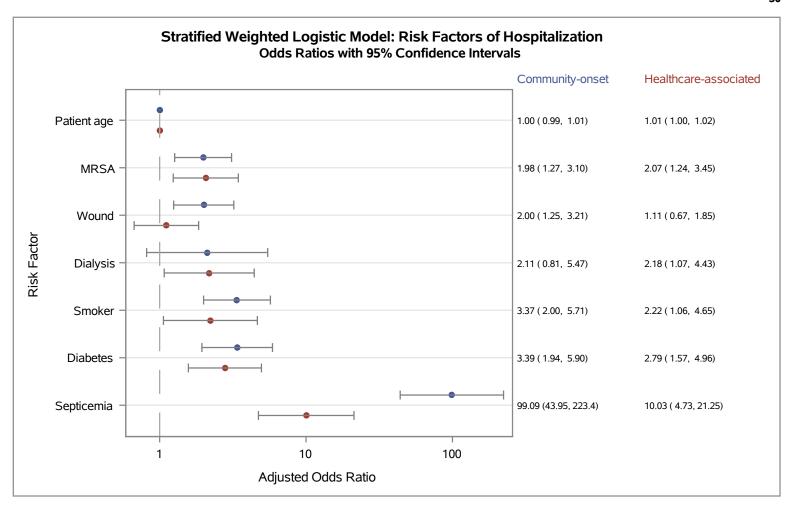
Analysis of Maximum Likelihood Estimates					
Parameter		Estimate	Standard Error	t Value	Pr > t
Intercept		-0.9211	0.3420	-2.69	0.0073
SMOKER	Yes	0.7982	0.3761	2.12	0.0342
mrsafinal	MRSA	0.7257	0.2606	2.79	0.0055
kidney	Yes	0.7799	0.3605	2.16	0.0309
DIABETES	Yes	1.0265	0.2924	3.51	0.0005
BSI	Yes	2.3051	0.3825	6.03	<.0001
WOUND	Yes	0.1059	0.2583	0.41	0.6819
newage		0.00669	0.00594	1.13	0.2608
NOTE: The degrees of freedom for the t tests is 599.					

Odds Ratio Estimates					
Effect	Point Estimate	95% Confidence Limits			
SMOKER Yes vs No	2.222	1.061	4.650		
mrsafinal MRSA vs MSSA	2.066	1.239	3.447		
kidney Yes vs No	2.181	1.075	4.428		
DIABETES Yes vs No	2.791	1.572	4.957		
BSI Yes vs No	10.025	4.730	21.248		
WOUND Yes vs No	1.112	0.669	1.846		
newage	1.007	0.995	1.019		

NOTE:

The degrees of freedom in computing the confidence limits is 599.

Association of Predicted Probabilities and Observed Responses						
Percent Concordant 81.3 Somers' D 0.630						
Percent Discordant	18.3	Gamma	0.632			
Percent Tied	0.4 Tau-a (0.231			
Pairs	66120	С	0.815			



The GLIMMIX Procedure

Model Information			
Data Set	S.STAPH		
Response Variable	hosp		
Response Distribution	Binary		
Link Function	Logit		
Variance Function	Default		
Variance Matrix Blocked By	TXHOSP		
Estimation Technique	Maximum Likelihood		
Likelihood Approximation	Gauss-Hermite Quadrature		
Degrees of Freedom Method	Between-Within		
Fixed Effects SE Adjustment	Sandwich - MBN(df,r=1,d=2)		

	Class Level Information			
Class	Levels	Values		
TXHOSP	35	GA002 GA003 GA004 GA006 GA008 GA009 GA010 GA011 GA013 GA015 GA016 GA018 GA020 GA021 GA024 GA026 GA027 GA029 GA030 GA032 GA034 GA040 GA046 GA048 GA050 GA056 GA059 GA065 GA066 GA069 GA070 GA071 GA308 GAMDO OSODC		
mrsafinal	2	MRSA MSSA		
kidney	2	Yes No		
DIABETES	2	Yes No		
SMOKER	2	Yes No		
WOUND	2	Yes No		
BSI	2	Yes No		

Number of Observations Read	1447
Number of Observations Used	1447

Response Profile			
Ordered Value	Total Frequency		
1	No	735	
2	Yes	712	

The GLIMMIX procedure is modeling the probability that hosp='Yes'.

The GLIMMIX Procedure

Dimensions	
G-side Cov. Parameters	1
Columns in X	14
Columns in Z per Subject	1
Subjects (Blocks in V)	35
Max Obs per Subject	447

Optimization Information			
Optimization Technique Dual Quasi-Newton			
Parameters in Optimization	9		
Lower Boundaries	1		
Upper Boundaries	0		
Fixed Effects	Not Profiled		
Starting From	GLM estimates		
Quadrature Points	1		

Iteration History					
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient
0	0	4	2809.7671492		2776.37
1	0	6	2798.1628166	11.60433259	120.7446
2	0	4	2738.8833011	59.27951551	40.08431
3	0	2	2732.1785248	6.70477633	19.49736
4	0	4	2728.8319698	3.34655496	14.21317
5	0	2	2728.0560481	0.77592168	4.021616
6	0	3	2727.5457195	0.51032860	34.32043
7	0	2	2727.0471694	0.49855013	35.08955
8	0	2	2726.3982854	0.64888401	8.700023
9	0	3	2726.1195295	0.27875594	9.737444
10	0	3	2726.0684443	0.05108520	3.665075
11	0	3	2726.0633297	0.00511460	1.240708
12	0	3	2726.0609073	0.00242232	0.580288
13	0	3	2726.0600159	0.00089147	0.146745
14	0	3	2726.0600102	0.00000571	0.011663

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

The GLIMMIX Procedure

Fit Statistics		
-2 Log Likelihood	2726.06	
AIC (smaller is better)	2744.06	
AICC (smaller is better)	2744.19	
BIC (smaller is better)	2758.06	
CAIC (smaller is better)	2767.06	
HQIC (smaller is better)	2748.89	

Fit Statistics for Conditional Distribution			
-2 log L(hosp r. effects) 2605.19			
Pearson Chi-Square	1867.72		
Pearson Chi-Square / DF	1.29		

Covariance Parameter Estimates					
Cov Parm Subject Estimate Standard Z Value Pr >					Pr > Z
Intercept	TXHOSP	3.3699	2.2234	1.52	0.0648

Solutions for Fixed Effects												
Effect	mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	Estimate	Standard Error	DF	t Value	Pr > t	
Intercept							-2.2875	0.5930	34	-3.86	0.0005	
SMOKER				Yes			0.5006	0.3209	18	1.56	0.1362	
SMOKER				No			0					
mrsafinal	MRSA						0.01493	0.2164	24	0.07	0.9456	
mrsafinal	MSSA						0					
kidney		Yes					1.2379	0.3360	22	3.68	0.0013	
kidney		No					0					
DIABETES			Yes				0.7665	0.2814	22	2.72	0.0124	
DIABETES			No				0					
WOUND					Yes		0.4193	0.2014	21	2.08	0.0498	
WOUND					No		0					
BSI						Yes	2.7266	0.3766	24	7.24	<.0001	
BSI						No	0					
newage							0.02178	0.005370	4321	4.06	<.0001	

The GLIMMIX Procedure

Odds Ratio Estimates												
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_WOUND	_BS
			Yes			44.242				No		
MRSA						44.242	MSSA					
	Yes					44.242		No				
		Yes				44.242			No			
				Yes		44.242					No	
					Yes	44.242						No
						45.242						

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 GLIMMIX Procedure

Odds Ratio Estimates												
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_wound	_newage
			Yes			44.242				No		44.242
MRSA						44.242	MSSA					44.242
	Yes					44.242		No				44.242
		Yes				44.242			No			44.242
				Yes		44.242					No	44.242
					Yes	44.242						44.242
						45.242						44.242

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 GLIMMIX Procedure

Odds Ratio Estimates												
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_wound	Estimate
			Yes			44.242				No		1.650
MRSA						44.242	MSSA					1.015
	Yes					44.242		No				3.448
		Yes				44.242			No			2.152
				Yes		44.242					No	1.521
					Yes	44.242						15.281
						45.242						1.022

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 GLIMMIX Procedure

	Odds Ratio Estimates												
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_WOUND	DF	95% Confi denc e Limit s
			Yes			44.242				No		18	0.841
MRSA						44.242	MSSA					24	0.649
	Yes					44.242		No				22	1.718
		Yes				44.242			No			22	1.201
				Yes		44.242					No	21	1.000
					Yes	44.242						24	7.024
						45.242						4321	1.011

The GLIMMIX Procedure

	Odds Ratio Estimates											
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_WOUND	95% Confi dence Limits
			Yes			44.242				No		3.238
MRSA						44.242	MSSA					1.587
	Yes					44.242		No				6.923
		Yes				44.242			No			3.858
				Yes		44.242					No	2.312
					Yes	44.242						33.242
						45.242						1.033

	Type III Tests of Fixed Effects									
Effect	Num DF	Den DF	Chi-Square	F Value	Pr > ChiSq	Pr > F				
SMOKER	1	18	2.43	2.43	0.1188	0.1362				
mrsafinal	1	24	0.00	0.00	0.9450	0.9456				
kidney	1	22	13.57	13.57	0.0002	0.0013				
DIABETES	1	22	7.42	7.42	0.0065	0.0124				
WOUND	1	21	4.33	4.33	0.0374	0.0498				
BSI	1	24	52.43	52.43	<.0001	<.0001				
newage	1	4321	16.45	16.45	<.0001	<.0001				

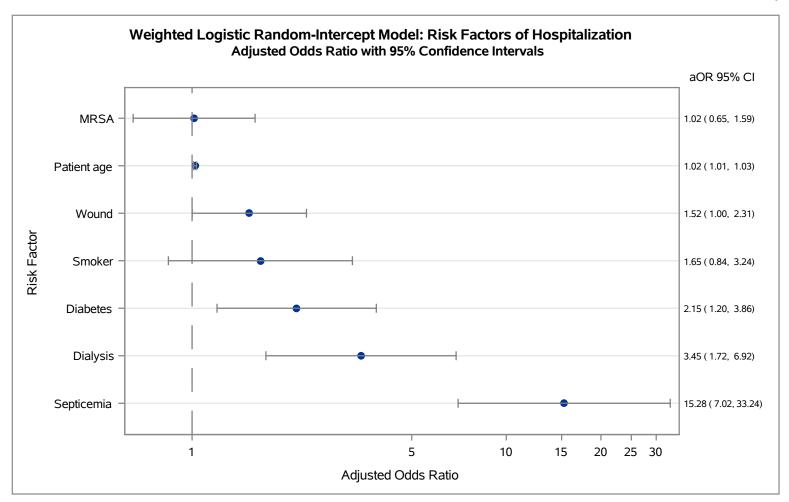
		So	lution for	Randor	n Effects				
Effect	Subject	Estimate	Std Err Pred	DF	t Value	Pr > t	Alpha	Lower	Upper
Intercept	TXHOSP GA002	1.0334	0.8120	4355	1.27	0.2032	0.05	-0.5585	2.6253
Intercept	TXHOSP GA003	0.1329	0.6562	4355	0.20	0.8395	0.05	-1.1536	1.4194
Intercept	TXHOSP GA004	1.5172	0.5979	4355	2.54	0.0112	0.05	0.3450	2.6894
Intercept	TXHOSP GA006	0.1466	0.9143	4355	0.16	0.8726	0.05	-1.6460	1.9391
Intercept	TXHOSP GA008	-0.9284	0.6812	4355	-1.36	0.1730	0.05	-2.2638	0.4071
Intercept	TXHOSP GA009	1.6056	0.6720	4355	2.39	0.0169	0.05	0.2882	2.9230
Intercept	TXHOSP GA010	1.1908	0.6076	4355	1.96	0.0501	0.05	-0.00038	2.3820
Intercept	TXHOSP GA011	1.3265	0.5764	4355	2.30	0.0214	0.05	0.1964	2.4566
Intercept	TXHOSP GA013	1.1744	0.7535	4355	1.56	0.1192	0.05	-0.3028	2.6516
Intercept	TXHOSP GA015	1.8955	0.6849	4355	2.77	0.0057	0.05	0.5527	3.2382
Intercept	TXHOSP GA016	0.7896	1.4907	4355	0.53	0.5963	0.05	-2.1328	3.7121

	Solution for Random Effects										
Effect	Subject	Estimate	Std Err Pred	DF	t Value	Pr > t	Alpha	Lower	Upper		
Intercept	TXHOSP GA018	0.5921	0.6871	4355	0.86	0.3889	0.05	-0.7550	1.9392		
Intercept	TXHOSP GA020	1.0831	0.5938	4355	1.82	0.0682	0.05	-0.08112	2.2473		
Intercept	TXHOSP GA021	1.0662	0.6055	4355	1.76	0.0783	0.05	-0.1208	2.2533		
Intercept	TXHOSP GA024	0.7462	0.5985	4355	1.25	0.2126	0.05	-0.4273	1.9196		
Intercept	TXHOSP GA026	1.3636	0.6238	4355	2.19	0.0289	0.05	0.1407	2.5865		
Intercept	TXHOSP GA027	1.5192	0.6421	4355	2.37	0.0180	0.05	0.2603	2.7781		
Intercept	TXHOSP GA029	-0.3851	1.5919	4355	-0.24	0.8089	0.05	-3.5060	2.7358		
Intercept	TXHOSP GA030	-1.7577	1.1774	4355	-1.49	0.1356	0.05	-4.0660	0.5506		
Intercept	TXHOSP GA032	1.7465	0.6516	4355	2.68	0.0074	0.05	0.4691	3.0239		
Intercept	TXHOSP GA034	-0.4074	0.6659	4355	-0.61	0.5407	0.05	-1.7130	0.8981		
Intercept	TXHOSP GA040	-4.6288	0.8987	4355	-5.15	<.0001	0.05	-6.3908	-2.8668		
Intercept	TXHOSP GA046	0.2668	0.7549	4355	0.35	0.7238	0.05	-1.2133	1.7468		
Intercept	TXHOSP GA048	-0.03924	1.0758	4355	-0.04	0.9709	0.05	-2.1483	2.0698		
Intercept	TXHOSP GA050	-1.7129	1.4468	4355	-1.18	0.2365	0.05	-4.5494	1.1236		
Intercept	TXHOSP GA056	0.3922	1.6040	4355	0.24	0.8068	0.05	-2.7524	3.5368		
Intercept	TXHOSP GA059	0.4726	0.6188	4355	0.76	0.4451	0.05	-0.7406	1.6859		
Intercept	TXHOSP GA065	-3.4060	1.3883	4355	-2.45	0.0142	0.05	-6.1277	-0.6842		
Intercept	TXHOSP GA066	-0.8944	1.3783	4355	-0.65	0.5164	0.05	-3.5965	1.8077		
Intercept	TXHOSP GA069	1.4220	1.4749	4355	0.96	0.3350	0.05	-1.4694	4.3135		
Intercept	TXHOSP GA070	0.8376	0.6511	4355	1.29	0.1984	0.05	-0.4390	2.1141		
Intercept	TXHOSP GA071	-0.1330	0.6855	4355	-0.19	0.8462	0.05	-1.4769	1.2110		
Intercept	TXHOSP GA308	-2.3440	1.3530	4355	-1.73	0.0833	0.05	-4.9966	0.3086		
Intercept	TXHOSP GAMDO	-3.2892	0.5959	4355	-5.52	<.0001	0.05	-4.4574	-2.1210		
Intercept	TXHOSP OSODC	-1.8421	1.4661	4355	-1.26	0.2090	0.05	-4.7164	1.0322		

	Empirical Correlation Matrix for Fixed Effects												
Effect	mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	Row	Col1	Col2	Col3	Col4	Col5	Col6
Intercept							1	1.0000	-0.08803		-0.2056		-0.06619
SMOKER				Yes			2	-0.08803	1.0000		0.08159		0.03500
SMOKER				No			3			1.0000			
mrsafinal	MRSA						4	-0.2056	0.08159		1.0000		0.1599
mrsafinal	MSSA						5					1.0000	
kidney		Yes					6	-0.06619	0.03500		0.1599		1.0000
kidney		No					7						
DIABETES			Yes				8	-0.04415	0.2710		0.1505		-0.2076
DIABETES			No				9						
WOUND					Yes		10	-0.1236	0.3643		0.2547		-0.2413
WOUND					No		11						
BSI						Yes	12	-0.07947	0.1116		0.1467		0.02663
BSI						No	13						
newage							14	-0.1829	-0.07769		-0.3066		-0.3054

	Empirical Correlation Matrix for Fixed Effects													
Effect	mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	Row	Col7	Col8	Col9	Col10	Col11	Col12	Col13
Intercept							1		-0.04415		-0.1236		-0.07947	
SMOKER				Yes			2		0.2710		0.3643		0.1116	
SMOKER				No			3							
mrsafinal	MRSA						4		0.1505		0.2547		0.1467	
mrsafinal	MSSA						5							
kidney		Yes					6		-0.2076		-0.2413		0.02663	
kidney		No					7	1.0000						
DIABETES			Yes				8		1.0000		0.07682		-0.05413	
DIABETES			No				9			1.0000				
WOUND					Yes		10		0.07682		1.0000		0.2771	
WOUND					No		11					1.0000		
BSI						Yes	12		-0.05413		0.2771		1.0000	
BSI						No	13							1.0000
newage							14		-0.1068		0.03849		-0.04147	

	Empirical Correlation Matrix for Fixed Effects									
Effect	mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	Row	Col14		
Intercept							1	-0.1829		
SMOKER				Yes			2	-0.07769		
SMOKER				No			3			
mrsafinal	MRSA						4	-0.3066		
mrsafinal	MSSA						5			
kidney		Yes					6	-0.3054		
kidney		No					7			
DIABETES			Yes				8	-0.1068		
DIABETES			No				9			
WOUND					Yes		10	0.03849		
WOUND					No		11			
BSI						Yes	12	-0.04147		
BSI						No	13			
newage							14	1.0000		



Model Info	ormation
Data Set	WORK.COMM
Response Variable	hosp
Response Distribution	Binary
Link Function	Logit
Variance Function	Default
Variance Matrix Blocked By	TXHOSP
Estimation Technique	Maximum Likelihood
Likelihood Approximation	Gauss-Hermite Quadrature
Degrees of Freedom Method	Between-Within
Fixed Effects SE Adjustment	Sandwich - MBN(df,r=1,d=2)

	Class Level Information								
Class	Levels	Values							
TXHOSP	30	GA002 GA003 GA004 GA006 GA008 GA009 GA010 GA011 GA013 GA015 GA016 GA018 GA020 GA021 GA024 GA026 GA027 GA030 GA032 GA034 GA040 GA046 GA048 GA050 GA059 GA066 GA069 GA070 GA071 GAMDO							
mrsafinal	2	MRSA MSSA							
kidney	2	Yes No							
DIABETES	2	Yes No							
SMOKER	2	Yes No							
WOUND	2	Yes No							
BSI	2	Yes No							

Number of Observations Read	846
Number of Observations Used	846

Response Profile							
Ordered Value	hosp	Total Frequency					
1	No	590					
2	Yes	256					

The GLIMMIX procedure is modeling the probability that hosp='Yes'.

Dimensions	
G-side Cov. Parameters	1
Columns in X	14
Columns in Z per Subject	1
Subjects (Blocks in V)	30
Max Obs per Subject	380

Optimization Info	rmation
Optimization Technique	Dual Quasi-Newton
Parameters in Optimization	9
Lower Boundaries	1
Upper Boundaries	0
Fixed Effects	Not Profiled
Starting From	GLM estimates
Quadrature Points	1

		Iterat	ion History		
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient
0	0	4	1501.0917107		2753.628
1	0	6	1480.828851	20.26285972	79.96838
2	0	2	1446.3052458	34.52360519	25.9747
3	0	2	1438.6102748	7.69497099	25.24847
4	0	4	1434.7206514	3.88962333	47.57425
5	0	4	1431.4966568	3.22399465	12.60808
6	0	3	1431.0656799	0.43097691	13.71226
7	0	4	1430.0803129	0.98536704	5.962923
8	0	3	1429.733555	0.34675782	14.80668
9	0	3	1429.6672263	0.06632873	2.606062
10	0	3	1429.6524119	0.01481443	1.815746
11	0	2	1429.6338936	0.01851827	2.527292
12	0	3	1429.6301493	0.00374429	0.276731
13	0	3	1429.6300976	0.00005169	0.184168
14	0	3	1429.6300848	0.00001285	0.016909

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

Fit Statistics	
-2 Log Likelihood	1429.63
AIC (smaller is better)	1447.63
AICC (smaller is better)	1447.85
BIC (smaller is better)	1460.24
CAIC (smaller is better)	1469.24
HQIC (smaller is better)	1451.66

Fit Statistics for Condi Distribution	tional
-2 log L(hosp r. effects)	1329.79
Pearson Chi-Square	1214.52
Pearson Chi-Square / DF	1.44

	Covaria	nce Parame	eter Estimate	es	
Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr > Z
Intercept	TXHOSP	4.1805	2.3097	1.81	0.0351

	Solutions for Fixed Effects													
Effect	mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	Estimate	Standard Error	DF	t Value	Pr > t			
Intercept							-2.5290	0.6961	29	-3.63	0.0011			
SMOKER				Yes			0.6718	0.4220	17	1.59	0.1298			
SMOKER				No			0							
mrsafinal	MRSA						-0.1810	0.2851	22	-0.64	0.5320			
mrsafinal	MSSA						0							
kidney		Yes					1.6130	0.6778	10	2.38	0.0386			
kidney		No					0							
DIABETES			Yes				1.1581	0.4643	17	2.49	0.0232			
DIABETES			No				0							
WOUND					Yes		0.5562	0.3572	16	1.56	0.1391			
WOUND					No		0							
BSI						Yes	4.0945	0.7998	19	5.12	<.0001			
BSI						No	0							
newage							0.02049	0.007379	2870	2.78	0.0055			

	Odds Ratio Estimates														
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_WOUND	_BS			
			Yes			39.545				No					
MRSA						39.545	MSSA								
	Yes					39.545		No							
		Yes				39.545			No						
				Yes		39.545					No				
					Yes	39.545						No			
						40.545									

Effects of continuous variables are assessed as one unit offsets from the mean.

	Odds Ratio Estimates														
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_wound	_newage			
			Yes			39.545				No		39.545			
MRSA						39.545	MSSA					39.545			
	Yes					39.545		No				39.545			
		Yes				39.545			No			39.545			
				Yes		39.545					No	39.545			
					Yes	39.545						39.545			
						40.545						39.545			

Effects of continuous variables are assessed as one unit offsets from the mean.

	Odds Ratio Estimates														
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_wound	Estimate			
			Yes			39.545				No		1.958			
MRSA						39.545	MSSA					0.834			
	Yes					39.545		No				5.018			
		Yes				39.545			No			3.184			
				Yes		39.545					No	1.744			
					Yes	39.545						60.007			
						40.545						1.021			

Effects of continuous variables are assessed as one unit offsets from the mean.

	Odds Ratio Estimates														
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_WOUND	DF	95% Confi dence Limits		
			Yes			39.545				No		17	0.804		
MRSA						39.545	MSSA					22	0.462		
	Yes					39.545		No				10	1.108		
		Yes				39.545			No			17	1.196		
				Yes		39.545					No	16	0.818		
					Yes	39.545						19	11.252		
						40.545						2870	1.006		

					(Odds Ratio	Estimates					
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_WOUND	95% Confid ence Limits
			Yes			39.545				No		4.768
MRSA						39.545	MSSA					1.507
	Yes					39.545		No				22.721
		Yes				39.545			No			8.480
				Yes		39.545					No	3.719
					Yes	39.545						320.033
						40.545						1.036

Type III Tests of Fixed Effects						
Effect	Num DF	Den DF	F Value	Pr > F		
SMOKER	1	17	2.53	0.1298		
mrsafinal	1	22	0.40	0.5320		
kidney	1	10	5.66	0.0386		
DIABETES	1	17	6.22	0.0232		
WOUND	1	16	2.42	0.1391		
BSI	1	19	26.21	<.0001		
newage	1	2870	7.71	0.0055		

	Solution for Random Effects								
Effect	Subject	Estimate	Std Err Pred	DF	t Value	Pr > t	Alpha	Lower	Upper
Intercept	TXHOSP GA002	-1.3852	1.0465	2899	-1.32	0.1857	0.05	-3.4372	0.6668
Intercept	TXHOSP GA003	-0.6542	0.8484	2899	-0.77	0.4407	0.05	-2.3177	1.0093
Intercept	TXHOSP GA004	0.7617	0.6833	2899	1.11	0.2651	0.05	-0.5781	2.1015
Intercept	TXHOSP GA006	-1.3408	1.4341	2899	-0.93	0.3499	0.05	-4.1527	1.4712
Intercept	TXHOSP GA008	-1.6991	0.9333	2899	-1.82	0.0688	0.05	-3.5291	0.1309
Intercept	TXHOSP GA009	1.3989	0.8269	2899	1.69	0.0908	0.05	-0.2224	3.0202
Intercept	TXHOSP GA010	1.2832	0.6953	2899	1.85	0.0651	0.05	-0.08013	2.6465
Intercept	TXHOSP GA011	1.2810	0.6697	2899	1.91	0.0559	0.05	-0.03207	2.5941
Intercept	TXHOSP GA013	2.4816	0.8876	2899	2.80	0.0052	0.05	0.7413	4.2219
Intercept	TXHOSP GA015	2.3732	0.8225	2899	2.89	0.0039	0.05	0.7605	3.9860
Intercept	TXHOSP GA016	0.5821	1.6877	2899	0.34	0.7302	0.05	-2.7270	3.8912
Intercept	TXHOSP GA018	1.0116	0.8259	2899	1.22	0.2207	0.05	-0.6077	2.6310

Solution for Random Effects									
Effect	Subject	Estimate	Std Err Pred	DF	t Value	Pr > t	Alpha	Lower	Upper
Intercept	TXHOSP GA020	0.9734	0.6947	2899	1.40	0.1613	0.05	-0.3887	2.3355
Intercept	TXHOSP GA021	0.6896	0.7048	2899	0.98	0.3279	0.05	-0.6923	2.0715
Intercept	TXHOSP GA024	-0.09621	0.7157	2899	-0.13	0.8931	0.05	-1.4995	1.3071
Intercept	TXHOSP GA026	1.4177	0.7398	2899	1.92	0.0554	0.05	-0.03294	2.8683
Intercept	TXHOSP GA027	1.7194	0.7319	2899	2.35	0.0189	0.05	0.2842	3.1545
Intercept	TXHOSP GA030	-1.7086	1.3302	2899	-1.28	0.1991	0.05	-4.3168	0.8996
Intercept	TXHOSP GA032	1.5642	0.7456	2899	2.10	0.0360	0.05	0.1022	3.0262
Intercept	TXHOSP GA034	-1.4768	0.8780	2899	-1.68	0.0927	0.05	-3.1983	0.2447
Intercept	TXHOSP GA040	-4.0165	1.0574	2899	-3.80	0.0001	0.05	-6.0899	-1.9432
Intercept	TXHOSP GA046	2.8069	1.3843	2899	2.03	0.0427	0.05	0.09259	5.5212
Intercept	TXHOSP GA048	-0.7364	1.5905	2899	-0.46	0.6434	0.05	-3.8551	2.3823
Intercept	TXHOSP GA050	-2.4485	1.6212	2899	-1.51	0.1311	0.05	-5.6272	0.7302
Intercept	TXHOSP GA059	0.8361	0.7259	2899	1.15	0.2495	0.05	-0.5872	2.2595
Intercept	TXHOSP GA066	-0.7882	1.5712	2899	-0.50	0.6160	0.05	-3.8690	2.2927
Intercept	TXHOSP GA069	0.3367	1.8053	2899	0.19	0.8520	0.05	-3.2030	3.8764
Intercept	TXHOSP GA070	1.3729	0.8034	2899	1.71	0.0876	0.05	-0.2024	2.9483
Intercept	TXHOSP GA071	-1.0502	0.8703	2899	-1.21	0.2276	0.05	-2.7566	0.6561
Intercept	TXHOSP GAMDO	-4.2320	0.7083	2899	-5.97	<.0001	0.05	-5.6209	-2.8431

Model Information				
Data Set	WORK.HOP			
Response Variable	hosp			
Response Distribution	Binary			
Link Function	Logit			
Variance Function	Default			
Variance Matrix Blocked By	TXHOSP			
Estimation Technique	Maximum Likelihood			
Likelihood Approximation	Gauss-Hermite Quadrature			
Degrees of Freedom Method	Between-Within			
Fixed Effects SE Adjustment	Sandwich - MBN(df,r=1,d=2)			

Class Level Information					
Class	Levels	Values			
TXHOSP	31	GA002 GA003 GA004 GA006 GA008 GA009 GA010 GA011 GA013 GA015 GA018 GA020 GA021 GA024 GA026 GA027 GA029 GA032 GA034 GA040 GA046 GA048 GA056 GA059 GA065 GA069 GA070 GA071 GA308 GAMDO OSODC			
mrsafinal	2	MRSA MSSA			
kidney	2	Yes No			
DIABETES	2	Yes No			
SMOKER	2	Yes No			
WOUND	2	Yes No			
BSI	2	Yes No			

Number of Observations Read	601
Number of Observations Used	601

Response Profile					
Ordered Value	Total Frequency				
1	No	145			
2	Yes	456			

The GLIMMIX procedure is modeling the probability that hosp='Yes'.

Dimensions				
G-side Cov. Parameters	1			
Columns in X	14			
Columns in Z per Subject	1			
Subjects (Blocks in V)	31			
Max Obs per Subject	120			

Optimization Information				
Optimization Technique	Dual Quasi-Newton			
Parameters in Optimization	9			
Lower Boundaries	1			
Upper Boundaries	0			
Fixed Effects	Not Profiled			
Starting From	GLM estimates			
Quadrature Points	5			

Iteration History						
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient	
0	0	4	1146.8534811		326.408	
1	0	5	1146.5142917	0.33918935	22.92349	
2	0	4	1135.1806641	11.33362762	8.293453	
3	0	2	1132.1465315	3.03413262	9.172207	
4	0	4	1130.8451183	1.30141320	15.36075	
5	0	4	1129.7493425	1.09577577	2.771987	
6	0	2	1129.3311559	0.41818661	59.56893	
7	0	2	1128.638522	0.69263391	3.230332	
8	0	3	1128.3265204	0.31200159	26.83417	
9	0	2	1128.1767489	0.14977150	41.32122	
10	0	2	1128.127342	0.04940697	49.8322	
11	0	2	1128.0514506	0.07589132	19.01861	
12	0	3	1128.0280862	0.02336444	5.386648	
13	0	3	1128.0140478	0.01403844	0.498978	
14	0	3	1128.0139151	0.00013265	0.16206	
15	0	3	1128.0139063	0.00000880	0.149955	

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

Fit Statistics				
-2 Log Likelihood	1128.01			
AIC (smaller is better)	1146.01			
AICC (smaller is better)	1146.32			
BIC (smaller is better)	1158.92			
CAIC (smaller is better)	1167.92			
HQIC (smaller is better)	1150.22			

Fit Statistics for Conditional Distribution				
-2 log L(hosp r. effects) 1034.77				
Pearson Chi-Square	596.07			
Pearson Chi-Square / DF	0.99			

	Covariance Parameter Estimates									
Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr > Z					
Intercept	TXHOSP	4.0459	3.0019	1.35	0.0889					

				Solutions	for Fixed E	Effects					
Effect	mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	Estimate	Standard Error	DF	t Value	Pr > t
Intercept							-0.4119	0.7588	30	-0.54	0.5912
SMOKER				Yes			0.4916	0.7261	16	0.68	0.5081
SMOKER				No			0				
mrsafinal	MRSA						0.2375	0.4195	22	0.57	0.5770
mrsafinal	MSSA						0				
kidney		Yes					0.8999	0.4452	19	2.02	0.0576
kidney		No					0				
DIABETES			Yes				0.6596	0.3741	19	1.76	0.0940
DIABETES			No				0				
WOUND					Yes		-0.1607	0.3984	19	-0.40	0.6912
WOUND					No		0				
BSI						Yes	1.6658	0.5673	21	2.94	0.0079
BSI						No	0				
newage							0.005249	0.007870	1418	0.67	0.5049

	Odds Ratio Estimates											
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_WOUND	_BSI
			Yes			53.62				No		
MRSA						53.62	MSSA					
	Yes					53.62		No				
		Yes				53.62			No			
				Yes		53.62					No	
					Yes	53.62						No
						54.62						

Effects of continuous variables are assessed as one unit offsets from the mean.

	Odds Ratio Estimates											
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_WOUND	_newage
			Yes			53.62				No		53.62
MRSA						53.62	MSSA					53.62
	Yes					53.62		No				53.62
		Yes				53.62			No			53.62
				Yes		53.62					No	53.62
					Yes	53.62						53.62
						54.62						53.62

Effects of continuous variables are assessed as one unit offsets from the mean.

	Odds Ratio Estimates											
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_wound	Estimate
			Yes			53.62				No		1.635
MRSA						53.62	MSSA					1.268
	Yes					53.62		No				2.459
		Yes				53.62			No			1.934
				Yes		53.62					No	0.852
					Yes	53.62						5.290
						54.62						1.005

Effects of continuous variables are assessed as one unit offsets from the mean.

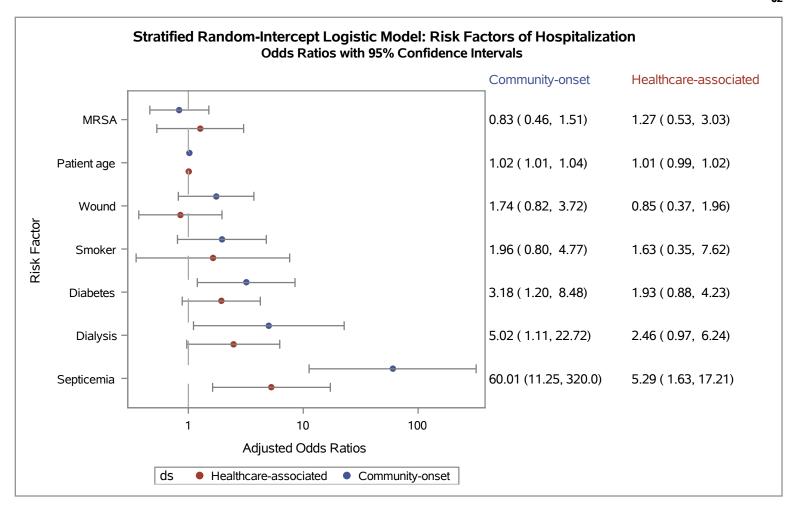
	Odds Ratio Estimates												
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_WOUND	DF	95% Confi denc e Limit s
			Yes			53.62				No		16	0.351
MRSA						53.62	MSSA					22	0.531
	Yes					53.62		No				19	0.969
		Yes				53.62			No			19	0.884
				Yes		53.62					No	19	0.370
					Yes	53.62						21	1.626
						54.62						1418	0.990

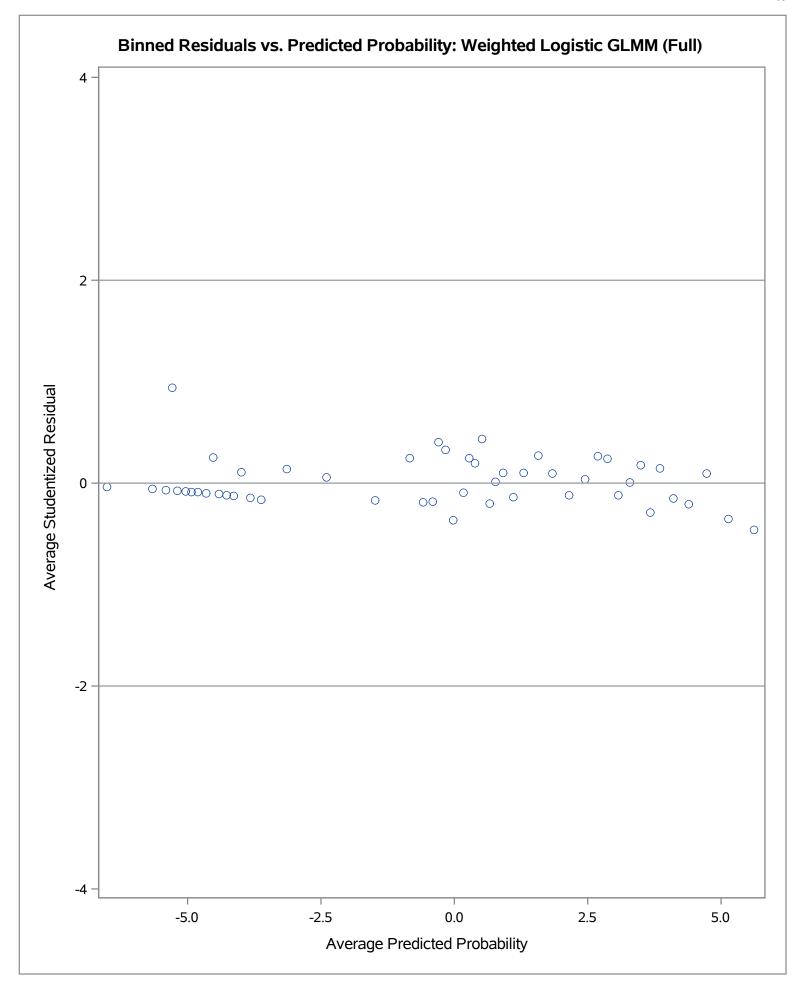
	Odds Ratio Estimates											
mrsafinal	kidney	DIABETES	SMOKER	WOUND	BSI	newage	_mrsafinal	_kidney	_DIABETES	_SMOKER	_WOUND	95% Confi dence Limits
			Yes			53.62				No		7.620
MRSA						53.62	MSSA					3.027
	Yes					53.62		No				6.245
		Yes				53.62			No			4.232
				Yes		53.62					No	1.960
					Yes	53.62						17.212
						54.62						1.021

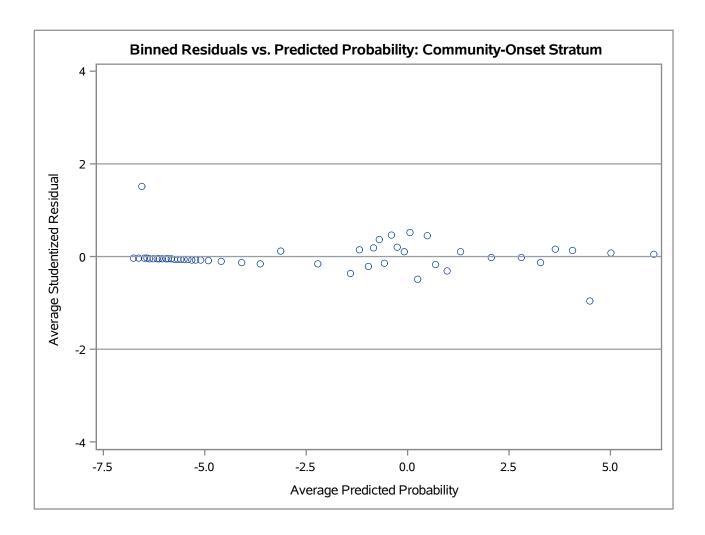
Type III Tests of Fixed Effects								
Effect	Num DF	Den DF	F Value	Pr > F				
SMOKER	1	16	0.46	0.5081				
mrsafinal	1	22	0.32	0.5770				
kidney	1	19	4.09	0.0576				
DIABETES	1	19	3.11	0.0940				
WOUND	1	19	0.16	0.6912				
BSI	1	21	8.62	0.0079				
newage	1	1418	0.44	0.5049				

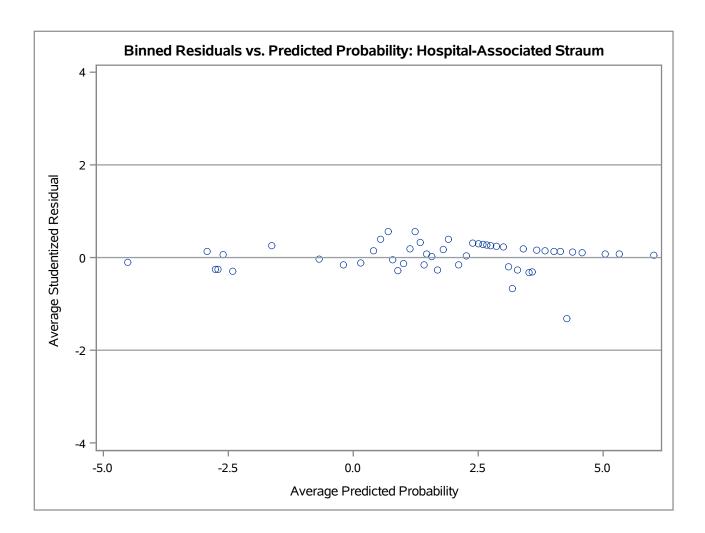
	Solution for Random Effects									
Effect	Subject	Estimate	Std Err Pred	DF	t Value	Pr > t	Alpha	Lower	Upper	
Intercept	TXHOSP GA002	2.6027	1.3808	1448	1.88	0.0596	0.05	-0.1059	5.3113	
Intercept	TXHOSP GA003	0.5977	0.8245	1448	0.72	0.4686	0.05	-1.0196	2.2150	
Intercept	TXHOSP GA004	1.8489	0.7062	1448	2.62	0.0089	0.05	0.4637	3.2342	
Intercept	TXHOSP GA006	1.3323	1.5733	1448	0.85	0.3972	0.05	-1.7539	4.4186	
Intercept	TXHOSP GA008	-0.9807	0.8354	1448	-1.17	0.2406	0.05	-2.6195	0.6580	
Intercept	TXHOSP GA009	1.0063	0.7729	1448	1.30	0.1932	0.05	-0.5099	2.5224	
Intercept	TXHOSP GA010	0.8390	0.7660	1448	1.10	0.2736	0.05	-0.6636	2.3417	
Intercept	TXHOSP GA011	0.8599	0.6431	1448	1.34	0.1814	0.05	-0.4016	2.1213	
Intercept	TXHOSP GA013	-2.0640	1.1511	1448	-1.79	0.0732	0.05	-4.3219	0.1940	
Intercept	TXHOSP GA015	-0.1339	0.8388	1448	-0.16	0.8732	0.05	-1.7793	1.5115	
Intercept	TXHOSP GA018	0.1910	0.8579	1448	0.22	0.8238	0.05	-1.4918	1.8738	
Intercept	TXHOSP GA020	1.6896	0.7831	1448	2.16	0.0311	0.05	0.1534	3.2258	

	Solution for Random Effects								
Effect	Subject	Estimate	Std Err Pred	DF	t Value	Pr > t	Alpha	Lower	Upper
Intercept	TXHOSP GA021	1.0536	0.6838	1448	1.54	0.1236	0.05	-0.2877	2.3949
Intercept	TXHOSP GA024	0.5776	0.6655	1448	0.87	0.3856	0.05	-0.7279	1.8831
Intercept	TXHOSP GA026	0.9917	0.7209	1448	1.38	0.1691	0.05	-0.4224	2.4058
Intercept	TXHOSP GA027	0.02234	0.8926	1448	0.03	0.9800	0.05	-1.7286	1.7733
Intercept	TXHOSP GA029	-1.0374	1.5837	1448	-0.66	0.5126	0.05	-4.1440	2.0692
Intercept	TXHOSP GA032	2.9202	1.3270	1448	2.20	0.0279	0.05	0.3170	5.5233
Intercept	TXHOSP GA034	-0.3605	0.7015	1448	-0.51	0.6074	0.05	-1.7366	1.0156
Intercept	TXHOSP GA040	-4.5150	1.1279	1448	-4.00	<.0001	0.05	-6.7275	-2.3025
Intercept	TXHOSP GA046	-1.2222	0.8766	1448	-1.39	0.1634	0.05	-2.9417	0.4972
Intercept	TXHOSP GA048	0.7424	1.6589	1448	0.45	0.6546	0.05	-2.5117	3.9965
Intercept	TXHOSP GA056	0.5880	1.6793	1448	0.35	0.7263	0.05	-2.7061	3.8821
Intercept	TXHOSP GA059	-0.07575	0.7352	1448	-0.10	0.9180	0.05	-1.5179	1.3664
Intercept	TXHOSP GA065	-3.3498	1.5351	1448	-2.18	0.0293	0.05	-6.3611	-0.3385
Intercept	TXHOSP GA069	1.0688	1.6253	1448	0.66	0.5109	0.05	-2.1194	4.2571
Intercept	TXHOSP GA070	0.1242	0.7144	1448	0.17	0.8620	0.05	-1.2772	1.5255
Intercept	TXHOSP GA071	0.3750	0.9252	1448	0.41	0.6853	0.05	-1.4400	2.1900
Intercept	TXHOSP GA308	-2.6334	1.4665	1448	-1.80	0.0727	0.05	-5.5100	0.2432
Intercept	TXHOSP GAMDO	-2.4710	0.6609	1448	-3.74	0.0002	0.05	-3.7674	-1.1746
Intercept	TXHOSP OSODC	-1.8292	1.5960	1448	-1.15	0.2519	0.05	-4.9600	1.3016

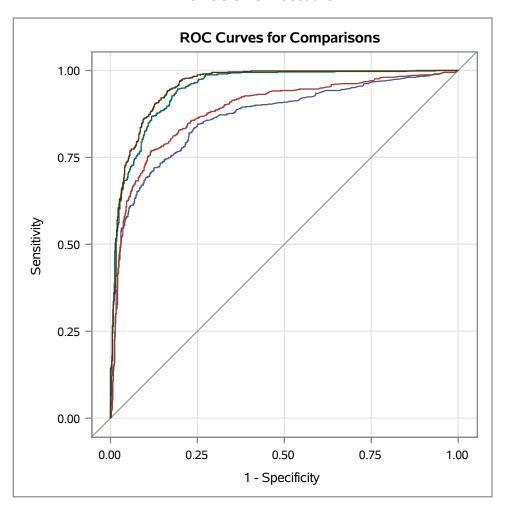




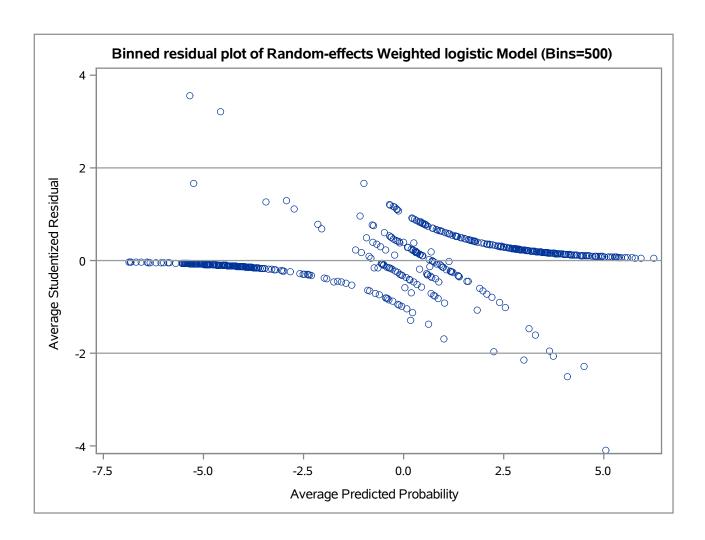




The LOGISTIC Procedure



ROC Association Statistics								
		Mann-	Whitney					
ROC Model	Area	Standard Error	95% Confiden		Somers' D	Gamma	Tau-a	
Baseline_Weighted_Logistic_Model	0.8654	0.00980	0.8462	0.8846	0.7309	0.7314	0.3656	
Stratified Weighted Logistic Model	0.8869	0.00900	0.8693	0.9046	0.7739	0.7742	0.3871	
Random-effects Weighted Logistic Model	0.9471	0.00553	0.9362	0.9579	0.8942	0.8942	0.4473	
Stratified, Random-effects Weighted Logistic Model	0.9557	0.00502	0.9459	0.9656	0.9115	0.9115	0.4559	



The UNIVARIATE Procedure Variable: avg_s_resid (Studentized Residual)

	Мо	ments	
N	481	Sum Weights	481
Mean	0.01727684	Sum Observations	8.3101578
Std Deviation	0.69763231	Variance	0.48669084
Skewness	1.50537473	Kurtosis	35.6950161
Uncorrected SS	233.755178	Corrected SS	233.611605
Coeff Variation	4037.96354	Std Error Mean	0.0318093

Basic Statistical Measures								
Loc	ation	Variability						
Mean	0.01728	Std Deviation	0.69763					
Median	-0.04107	Variance	0.48669					
Mode		Range	12.23067					
		Interquartile Range	0.36799					

Tests for Location: Mu0=0									
Test	St	atistic	p Val	ue					
Student's t	t	0.543138	Pr > t	0.5873					
Sign	М	-11.5	Pr >= M	0.3158					
Signed Rank	s	5315.5	Pr >= S	0.0814					

Tests for Normality									
Test	Statistic p Value								
Shapiro-Wilk	w	0.694332	Pr < W	<0.0001					
Kolmogorov-Smirnov	D	0.196736	Pr > D	<0.0100					
Cramer-von Mises	W-Sq	5.933548	Pr > W-Sq	<0.0050					
Anderson-Darling	A-Sq	31.62435	Pr > A-Sq	<0.0050					

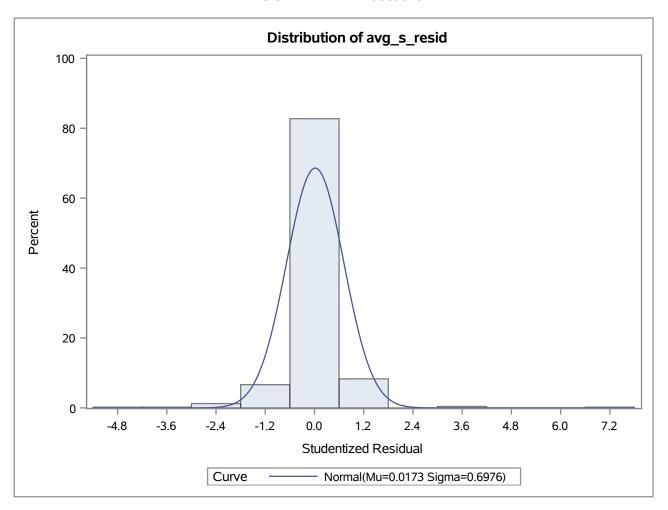
Quantiles (E	Definition 5)
Level	Quantile
100% Max	7.4398265
99%	1.6625316
95%	0.7943751
90%	0.5348499
75% Q3	0.2245928
50% Median	-0.0410712
25% Q1	-0.1434011

The UNIVARIATE Procedure Variable: avg_s_resid (Studentized Residual)

Quantiles (Definition 5)							
Level	Quantile						
10%	-0.4573914						
5%	-0.8253827						
1%	-2.1431803						
0% Min	-4.7908434						

Extreme Observations										
Lo	west		Highest							
Value	bin	Obs	Value bin Ob							
-4.79084	490	472	1.66253	37	35					
-4.10026	483	465	1.66603	190	172					
-2.50381	454	436	3.21636	90	77					
-2.28718	469	451	3.55355	31	30					
-2.14318	402	384	7.43983	133	115					

The UNIVARIATE Procedure



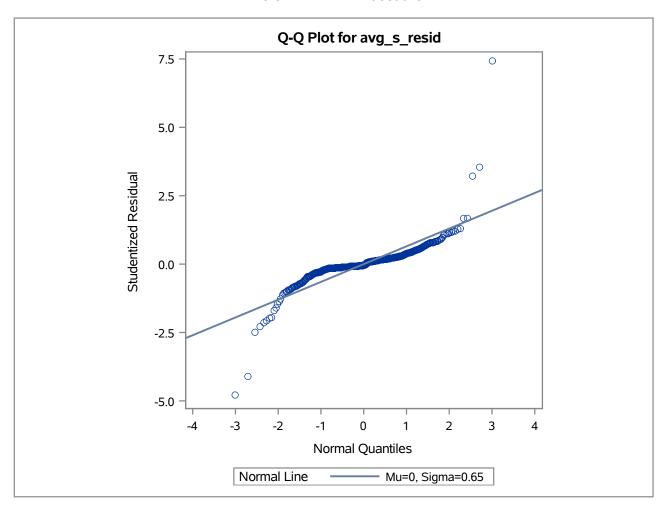
The UNIVARIATE Procedure Fitted Normal Distribution for avg_s_resid (Studentized Residual)

Parameters for Normal Distribution							
Parameter	Symbol	Estimate					
Mean	Mu	0.017277					
Std Dev	Sigma	0.697632					

Goodness-of-Fit Tests for Normal Distribution									
Test	s	tatistic	p Value						
Kolmogorov-Smirnov	D	0.1967358	Pr > D	<0.010					
Cramer-von Mises	W-Sq	5.9335478	Pr > W-Sq	<0.005					
Anderson-Darling	A-Sq	31.6243503	Pr > A-Sq	<0.005					

Quantiles for Normal Distribution								
	Qua	ntile						
Percent	Observed	Estimated						
1.0	-2.14318	-1.60566						
5.0	-0.82538	-1.13023						
10.0	-0.45739	-0.87677						
25.0	-0.14340	-0.45327						
50.0	-0.04107	0.01728						
75.0	0.22459	0.48782						
90.0	0.53485	0.91133						
95.0	0.79438	1.16478						
99.0	1.66253	1.64021						

The UNIVARIATE Procedure



UNIQUE	EID	Hospita ID	Facility	Treated Hospital	Hospita	alized		Age (years)	Invasive status	Strain	Setting	Bloodstream infection	Dialysis status	Diabetes status
Wound status	1 -	moker atus	Rank for Variable pred	_TYPE_	_FREQ_	Lir Predi	near ctor	Studen Res	tized idual				Linea	r Predicto
16	526	GA015	AMB	GAMDO	Yes			11	No	MSSA	Community-onset	No	No	No
No	No)	31	1	4	-5.3	3371	3.55	3551					(
21	142	GA306	AMB	GAMDO	No			11	No	MSSA	Community-onset	No	No	No
No	No)	31	1	4	-5.3	3371	3.55	3551					(
40	086	GA306	AMB	GAMDO	No			11	No	MSSA	Community-onset	No	No	No
No	No)	31	1	4	-5.3	3371	3.55	3551					(
39	910	GA306	AMB	GAMDO	No			11	No	MSSA	Community-onset	No	No	No
No	No		31	1	4	-5.3	3371	3.55	3551					(
11	150	GA306	AMB	GAMDO	Yes			46	No	MSSA	Healthcare-associated	No	No	No
No	No		90	1	3	-4.58	3015	3.2	1636					0.00546
16	574	GA306	AMB	GAMDO	No			46	No	MSSA	Community-onset	No	No	No
No	No)	90	1	3	-4.58	3015	3.2	1636					0.00546
16	538	GA009	AMB	GAMDO	No			26	No	MSSA	Community-onset	No	No	No
Yes	No		90	1	3	-4.58	3015	3.2	1636					0.00546
16	666	GA024	AMB	GAMDO	Yes			36	No	MRSA	Healthcare-associated	No	No	Yes
No	No		133	1	1	-4.0	0111	7.43	9826					
4	149	GA010	HOSP	GA010	No			40	Yes	MSSA	Community-onset	Yes	No	No
No	Ye	es	402	1	2	3.007	7682	-2.1	4318					0.00582
40)38	GA009	HOSP	GA004	Yes			81	No	MRSA	Healthcare-associated	No	Yes	Yes
No	No)	402	1	2	3.007	7682	-2.1	4318					0.00582
	59	GA020	HOSP	GA020	Yes			43	Yes	MRSA	Community-onset	Yes	No	Yes
No	Ye	es	438	1	3	3.740	0872	-2.0	6643					0.00098
3	393	GA010	HOSP	GA010	No			40	Yes	MSSA	Healthcare-associated	Yes	Yes	No
No	No		438	1	3	3.740	0872	-2.0	6643					0.00098
1	153	GA009	HOSP	GA004	Yes			82	Yes	MSSA	Community-onset	Yes	No	No
No	No		438	1	3	3.740	0872	-2.0	6643					0.00098
	49	GA011	HOSP	GA011	Yes			48	Yes	MSSA	Healthcare-associated	Yes	No	Yes
No	Ye	es	454	1	3	4.089	9048	-2.5	0381					0.00549
1	189	GA009	HOSP	GA009	No			59	Yes	MSSA	Healthcare-associated	Yes	No	Yes
No	No		454	1	3	4.089	9048	-2.5	0381					0.00549
1	157	GA024	HOSP	GA059	Yes			54	Yes	MSSA	Healthcare-associated	Yes	Yes	Yes
No	No		454	1	3	4.089	9048	-2.5	0381					0.00549

UNIQUE	ID	Hospita ID	al Facility type	Treated Hospita		alized	Age (years)	Invasive status	Strain	Setting	Bloodstream infection	Dialysis status	Diabetes status
Wound status		moker atus	Rank for Variable pred	_TYPE_	_FREQ_	Line Predic		ntized sidual				Linear	Predictor
2	61	GA011	HOSP	GA011	Yes		67	Yes	MSSA	Healthcare-associated	Yes	No	Yes
No	Ye	es	469	1	4	4.4995	541 -2.2	28718					0.004662
:	31	GA011	HOSP	GA011	No		67	Yes	MSSA	Healthcare-associated	Yes	No	Yes
No	Ye	es	469	1	4	4.4995	541 -2.2	28718			-	_	0.004662
3	48	GA024	HOSP	GA024	Yes		60	Yes	MRSA	Healthcare-associated	Yes	Yes	Yes
No	No	0	469	1	4	4.4995	541 -2.2	28718	·				0.004662
1.	49	GA009	HOSP	GA004	Yes		81	Yes	MRSA	Healthcare-associated	Yes	No	Yes
No	No	0	469	1	4	4.4995	541 -2.2	28718					0.004662
2	08	GA026	HOSP	GA026	Yes		58	Yes	MSSA	Healthcare-associated	Yes	Yes	Yes
No	No	0	483	1	3	5.0468	327 -4.	10026	·				0.012817
:	24	GA011	HOSP	GA011	Yes		57	Yes	MRSA	Healthcare-associated	Yes	Yes	Yes
No	No	0	483	1	3	5.0468	327 -4.	10026	·				0.012817
4	00	GA010	HOSP	GA010	No		64	Yes	MRSA	Healthcare-associated	Yes	Yes	Yes
No	No	0	483	1	3	5.0468	327 -4. ⁻	10026					0.012817
1.	38	GA011	HOSP	GA011	Yes		72	Yes	MRSA	Healthcare-associated	Yes	Yes	Yes
No	No	0	490	1	3	5.3516	552 -4.7	79084					0.001664
4	98	GA010	HOSP	GA010	No		78	Yes	MRSA	Healthcare-associated	Yes	Yes	Yes
No	No	0	490	1	3	5.3516	552 -4.7	79084					0.001664
	46	GA011	HOSP	GA011	Yes		72	Yes	MRSA	Healthcare-associated	Yes	Yes	Yes
No	No	0	490	1	3	5.3516	652 -4.7	79084					0.001664

