The CONTENTS Procedure

Data Set Name	S.STAPH	**Observations**	1447
Member Type	DATA	**Variables**	154
Engine	V9	**Indexes**	0
Created	06/02/2025 00:37:00	**Observation Length**	1064
Last Modified	06/02/2025 00:37:00	**Deleted Observations**	0
Protection		**Compressed**	NO
Data Set Type		**Sorted**	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Format	Informat
20	ABSC	Num	8	BEST12.	BEST32.
113	ABX	Char	2	$2.	$2.
116	ABXDAY1	Char	2	$2.	$2.
118	ABXDAY2	Char	2	$2.	$2.
120	ABXDAY3	Char	2	$2.	$2.
115	ABXNM1	Char	2	$2.	$2.
117	ABXNM2	Char	2	$2.	$2.
119	ABXNM3	Char	2	$2.	$2.
17	BAL	Num	8	BEST12.	BEST32.
36	BJI	Num	8	BEST12.	BEST32.
11	BLACK	Num	8	BEST12.	BEST32.
26	BLOOD	Num	8	BEST12.	BEST32.
29	BODYSITE	Num	8	BEST12.	BEST32.
70	BOIL	Num	8	BEST12.	BEST32.
34	BONE	Num	8	BEST12.	BEST32.
128	BROCUL	Char	2	$2.	$2.
129	BROPOS	Char	2	$2.	$2.
35	BSI	Char	5	$5.	$5.
95	CACASE	Num	8	BEST12.	BEST32.
110	CATH	Num	8	BEST12.	BEST32.
66	CAUSAL11	Num	8	BEST12.	BEST32.
101	CDIAL9	Num	8	BEST12.	BEST32.
71	CIRR	Num	8	BEST12.	BEST32.
37	CNS	Num	8	BEST12.	BEST32.
61	COLLECT	Num	8	BEST12.	BEST32.
24	COLNIZ	Num	8	BEST12.	BEST32.
72	CPD11	Num	8	BEST12.	BEST32.
74	CSBREAK9	Num	8	BEST12.	BEST32.
27	CSF	Num	8	BEST12.	BEST32.
76	CTD11	Num	8	BEST12.	BEST32.
78	CVA	Num	8	BEST12.	BEST32.
104	CVC9	Num	8	BEST12.	BEST32.
38	CVI	Num	8	BEST12.	BEST32.
79	CYSTIC9	Num	8	BEST12.	BEST32.
81	DEMENT9	Num	8	BEST12.	BEST32.

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Format	Informat
105	DEVICE	Num	8	BEST12.	BEST32.
82	DIABETES	Char	5	$5.	$5.
65	DISLTACH10	Num	8	BEST12.	BEST32.
64	DISLTC8	Num	8	BEST12.	BEST32.
112	DRAIN	Num	8	BEST12.	BEST32.
90	DRUG7	Num	8	BEST12.	BEST32.
80	DULCER7	Num	8	BEST12.	BEST32.
39	ENT	Char	4	$4.	$4.
19	EYE	Num	8	BEST12.	BEST32.
3	FACTYPE	Char	6	$6.	$6.
85	FLU	Num	8	BEST12.	BEST32.
23	FLUID	Num	8	BEST12.	BEST32.
40	GI	Num	8	BEST12.	BEST32.
143	HACO_onset	Num	8	BEST12.	BEST32.
75	HEART	Num	8	BEST12.	BEST32.
41	HEB	Num	8	BEST12.	BEST32.
83	HEMAP9	Num	8	BEST12.	BEST32.
84	HIV	Num	8	BEST12.	BEST32.
54	HO	Num	8	BEST12.	BEST32.
58	HOMELESS9	Num	8	BEST12.	BEST32.
2	HOSPID	Char	7	$7.	$7.
52	HOSPITAL	Num	8	BEST12.	BEST32.
42	IAB	Num	8	BEST12.	BEST32.
53	ICU16	Num	8	BEST12.	BEST32.
121	IMGRP	Char	2	$2.	$2.
122	IMG_BP	Char	2	$2.	$2.
123	IMG_CO	Char	2	$2.	$2.
124	IMG_NOEV	Char	2	$2.	$2.
125	IMG_OTH	Char	2	$2.	$2.
59	INCERC9	Num	8	BEST12.	BEST32.
6	INVASIVE	Char	5	$5.	$5.
86	IVDU	Num	8	BEST12.	BEST32.
33	JOINT	Num	8	BEST12.	BEST32.
43	LRI	Num	8	BEST12.	BEST32.
57	LTACH10	Num	8	BEST12.	BEST32.
103	LTACYR11	Num	8	BEST12.	BEST32.
56	LTCF9	Num	8	BEST12.	BEST32.
102	LTCYR	Num	8	BEST12.	BEST32.
88	MI11	Num	8	BEST12.	BEST32.
25	NIOTHSITE	Num	8	BEST12.	BEST32.
114	NUMABX	Char	2	$2.	$2.
89	OBESITY	Num	8	BEST12.	BEST32.
145	OTHERrace	Num	8	BEST12.	BEST32.
62	OTHPOS	Num	8	BEST12.	BEST32.
30	OTHSITE	Num	8	BEST12.	BEST32.
63	OUTCOME	Num	8	BEST12.	BEST32.
107	PACE	Num	8	BEST12.	BEST32.
91	PEPTIC9	Num	8	BEST12.	BEST32.

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
32	PERICRD	Num	8	BEST12.	BEST32.
31	PERITNL	Num	8	BEST12.	BEST32.
28	PLEURAL	Num	8	BEST12.	BEST32.
44	PNE	Num	8	BEST12.	BEST32.
96	PREVSA12mo	Num	8	BEST12.	BEST32.
99	PRIORSX	Char	2	$2.	$2.
55	PRIVRES9	Num	8	BEST12.	BEST32.
100	PROC	Char	2	$2.	$2.
92	PVD	Num	8	BEST12.	BEST32.
67	READMIT	Num	8	BEST12.	BEST32.
109	RENABN	Num	8	BEST12.	BEST32.
73	RENAL	Num	8	BEST12.	BEST32.
45	REP	Char	4	$4.	$4.
111	SATX	Char	3	$3.	$3.
106	SCDEV	Num	8	BEST12.	BEST32.
9	SEX	Char	8	$8.	$8.
22	SKIN	Num	8	BEST12.	BEST32.
77	SMOKER	Char	5	$5.	$5.
68	SPECSYN	Char	2	$2.	$2.
126	SPUCUL	Char	2	$2.	$2.
127	SPUPOS	Char	2	$2.	$2.
16	SPUTUM	Num	8	BEST12.	BEST32.
130	SSABC	Num	8	BEST12.	BEST32.
131	SSAIW	Num	8	BEST12.	BEST32.
132	SSBI	Num	8	BEST12.	BEST32.
133	SSCEL	Num	8	BEST12.	BEST32.
134	SSCHR	Num	8	BEST12.	BEST32.
135	SSHER	Num	8	BEST12.	BEST32.
46	SSI	Char	3	$3.	$3.
136	SSINF	Num	8	BEST12.	BEST32.
137	SSMAS	Num	8	BEST12.	BEST32.
138	SSMYO	Num	8	BEST12.	BEST32.
139	SSNF	Num	8	BEST12.	BEST32.
140	SSPUS	Num	8	BEST12.	BEST32.
47	SST	Char	3	$3.	$3.
7	STUDYID	Char	10	$10.	$10.
98	SURG1	Char	2	$2.	$2.
97	SURGYR9	Num	8	BEST12.	BEST32.
60	TRANSF9	Num	8	BEST12.	BEST32.
87	TUMOR9	Num	8	BEST12.	BEST32.
4	TXHOSP	Char	7	$7.	$7.
49	UND	Num	8	BEST12.	BEST32.
8	UNIQUEID	Num	8	BEST12.	BEST32.
50	UNK	Num	8	BEST12.	BEST32.
12	UNKRACE	Num	8	BEST12.	BEST32.
18	URINE	Num	8	BEST12.	BEST32.
48	UTIT	Num	8	BEST12.	BEST32.
1	VAR1	Char	4	$4.	$4.

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
153	VAR160	Char	5	$5.	$5.
108	VENT	Num	8	BEST12.	BEST32.
5	WEIGHT	Num	8	BEST12.	BEST32.
10	WHITE	Num	8	BEST12.	BEST32.
21	WOUND	Char	4	$4.	$4.
144	age_category	Num	8	BEST12.	BEST32.
93	anyhealth2	Num	8	BEST12.	BEST32.
151	co	Char	23	$23.	$23.
142	comm_onset	Num	8	BEST12.	BEST32.
146	ethnicity_real	Num	8	BEST12.	BEST32.
150	hosp	Char	5	$5.	$5.
141	hosp_onset	Num	8	BEST12.	BEST32.
152	kidney	Char	5	$5.	$5.
51	mrsafinal	Char	6	$6.	$6.
148	newBLACK	Num	8	BEST12.	BEST32.
147	newWHITE	Num	8	BEST12.	BEST32.
13	newage	Num	8	BEST12.	BEST32.
14	newbmi11	Char	2	$2.	$2.
15	newethnic	Num	8	BEST12.	BEST32.
94	newhospyrd8	Num	8	BEST12.	BEST32.
149	onset_type	Num	8	BEST12.	BEST32.
69	priorinvasive	Num	8	BEST12.	BEST32.
154	resp	Num	8	BEST12.	BEST32.

MRSA*Hospitalization adjusted RR (of CO/HA infections)

The FREQ Procedure

Frequency
Percent
Row Pct
Col Pct

Table 1 of mrsafinal by hosp			
Controlling for co=Healthcare-associated			
	hosp		
mrsafinal	Yes	No	Total
MRSA	408 28.02 76.69 43.73	124 8.52 23.31 23.71	532 36.54
MSSA	525 36.06 56.82 56.27	399 27.40 43.18 76.29	924 63.46
Total	933 64.08	523 35.92	1456 100.00

Statistics for Table 1 of mrsafinal by hosp
Controlling for co=Healthcare-associated

Statistic	Value	ASE
Gamma	0.4287	0.0499
Kendall's Tau-b	0.1995	0.0245
Stuart's Tau-c	0.1843	0.0229
Somers' D C|R	0.1987	0.0245

Statistic	Value	ASE
Somers' D R|C	0.2002	0.0247
Pearson Correlation	0.1995	0.0245
Spearman Correlation	0.1995	0.0245
Lambda Asymmetric C|R	0.0000	0.0000
Lambda Asymmetric R|C	0.0000	0.0000
Lambda Symmetric	0.0000	0.0000
Uncertainty Coefficient C|R	0.0315	0.0079
Uncertainty Coefficient R|C	0.0314	0.0079
Uncertainty Coefficient Symmetric	0.0315	0.0079

Odds Ratio and Relative Risks			
Statistic	Value	95% Confidence Limits	
Odds Ratio	2.5006	1.9681	3.1772
Relative Risk (Column 1)	1.3498	1.2545	1.4522
Relative Risk (Column 2)	0.5398	0.4549	0.6404

Sample Size = 1456

Frequency
Percent
Row Pct
Col Pct

Table 2 of mrsafinal by hosp			
Controlling for co=Community-onset			
	hosp		
mrsafinal	Yes	No	Total
MRSA	223 7.67 31.81 35.85	478 16.44 68.19 20.92	701 24.11
MSSA	399 13.73 18.09 64.15	1807 62.16 81.91 79.08	2206 75.89
Total	622 21.40	2285 78.60	2907 100.00

Statistics for Table 2 of mrsafinal by hosp
Controlling for co=Community-onset

Statistic	Value	ASE
Gamma	0.3575	0.0428
Kendall's Tau-b	0.1432	0.0201
Stuart's Tau-c	0.1005	0.0144
Somers' D C|R	0.1372	0.0194
Somers' D R|C	0.1493	0.0210
Pearson Correlation	0.1432	0.0201
Spearman Correlation	0.1432	0.0201
Lambda Asymmetric C|R	0.0000	0.0000
Lambda Asymmetric R|C	0.0000	0.0000
Lambda Symmetric	0.0000	0.0000
Uncertainty Coefficient C|R	0.0185	0.0051
Uncertainty Coefficient R|C	0.0174	0.0048
Uncertainty Coefficient Symmetric	0.0180	0.0049

Odds Ratio and Relative Risks			
Statistic	Value	95% Confidence Limits	
Odds Ratio	2.1128	1.7430	2.5611
Relative Risk (Column 1)	1.7588	1.5289	2.0234
Relative Risk (Column 2)	0.8324	0.7885	0.8788

Sample Size = 2907

MRSA*Hospitalization adjusted RR (of CO/HA infections)

The FREQ Procedure

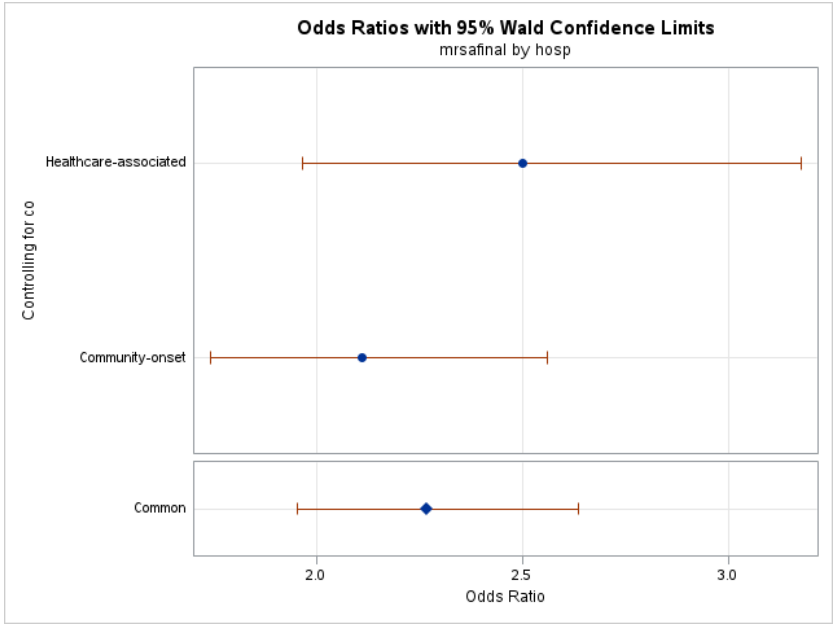
Summary Statistics for mrsafinal by hosp
Controlling for co

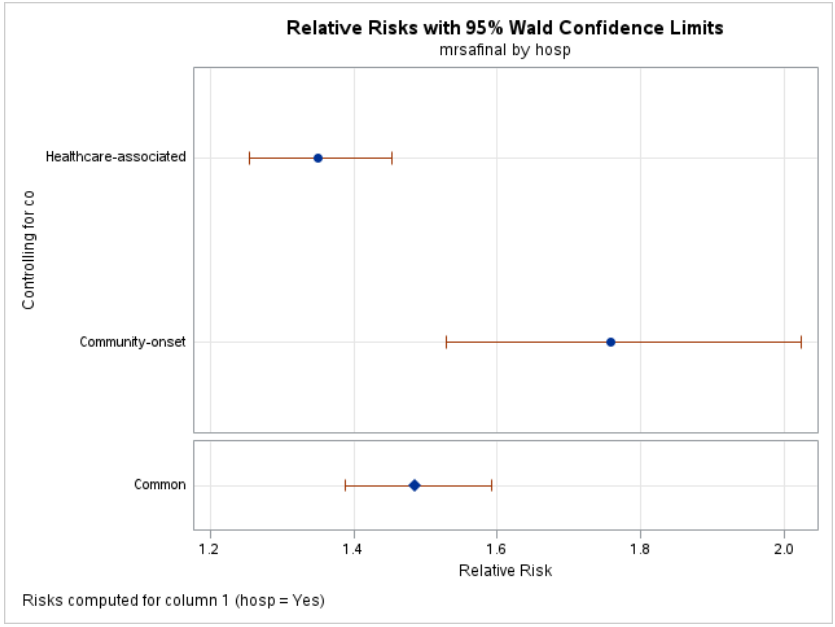
Cochran-Mantel-Haenszel Statistics (Based on Table Scores)				
Statistic	Alternative Hypothesis	DF	Value	Prob
1	Nonzero Correlation	1	117.3581	<.0001
2	Row Mean Scores Differ	1	117.3581	<.0001
3	General Association	1	117.3581	<.0001

Common Odds Ratio and Relative Risks				
Statistic	Method	Value	95% Confidence Limits	
Odds Ratio	Mantel-Haenszel	2.2700	1.9544	2.6366
	Logit	2.2572	1.9428	2.6225
Relative Risk (Column 1)	Mantel-Haenszel	1.4864	1.3874	1.5924
	Logit	1.4285	1.3388	1.5243
Relative Risk (Column 2)	Mantel-Haenszel	0.7591	0.7179	0.8027
	Logit	0.8001	0.7598	0.8426

Breslow-Day Test for Homogeneity of Odds Ratios	
Chi-Square	1.1621
DF	1
Pr > ChiSq	0.2810

Total Sample Size = 4363

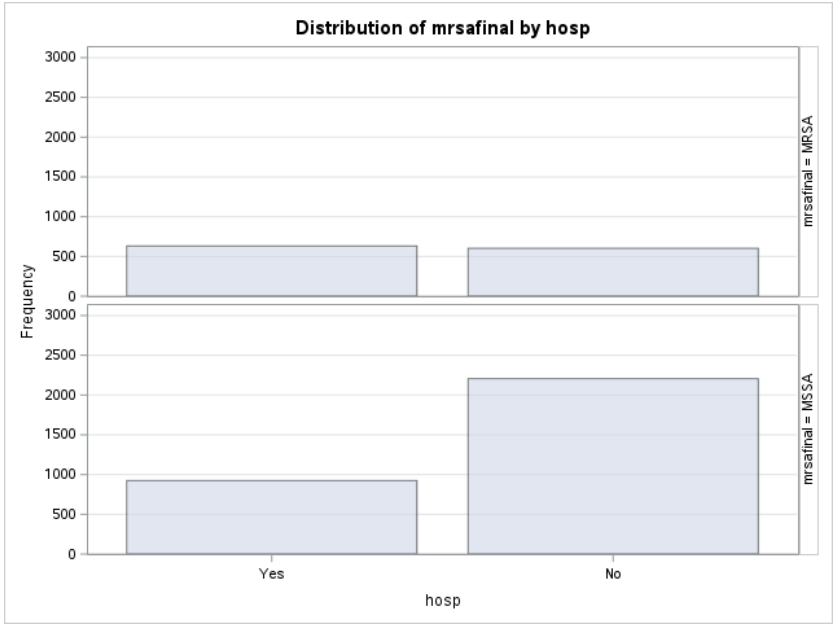


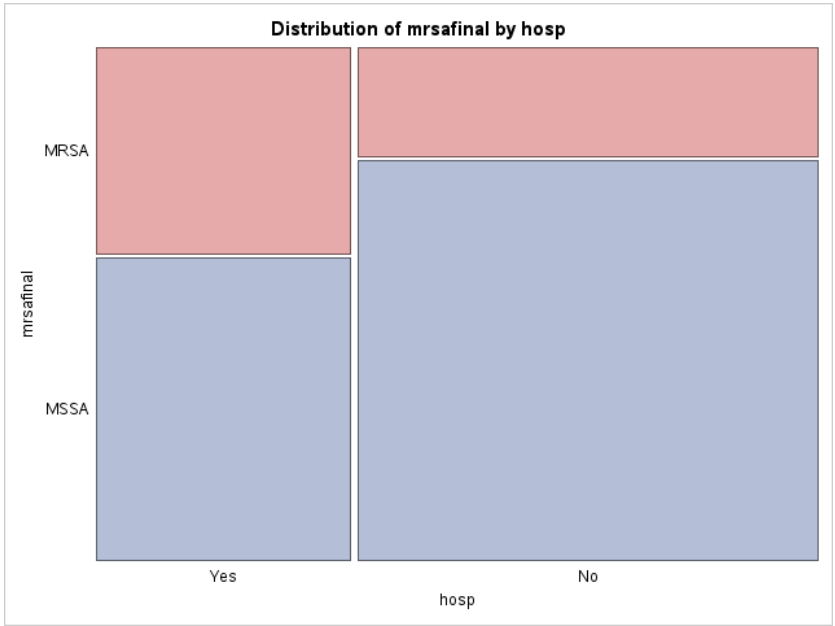


MRSA*Hospitalization unadjusted RR

The FREQ Procedure

Frequency Row Pct	Table of mrsafinal by hosp		
	hosp		
mrsafinal	Yes	No	Total
MRSA	631 51.18	602 48.82	1233
MSSA	924 29.52	2206 70.48	3130
Total	1555	2808	4363





Statistics for Table of mrsafinal by hosp

Statistic	Value	ASE
Gamma	0.4290	0.0282
Kendall's Tau-b	0.2036	0.0154
Stuart's Tau-c	0.1756	0.0135
Somers' D C|R	0.2166	0.0164
Somers' D R|C	0.1914	0.0147
Pearson Correlation	0.2036	0.0154
Spearman Correlation	0.2036	0.0154
Lambda Asymmetric C|R	0.0186	0.0224
Lambda Asymmetric R|C	0.0000	0.0000
Lambda Symmetric	0.0104	0.0125
Uncertainty Coefficient C|R	0.0311	0.0047
Uncertainty Coefficient R|C	0.0340	0.0051
Uncertainty Coefficient Symmetric	0.0325	0.0049

Odds Ratio and Relative Risks			
Statistic	Value	95% Confidence Limits	
Odds Ratio	2.5025	2.1853	2.8657
Relative Risk (Column 1)	1.7336	1.6054	1.8720
Relative Risk (Column 2)	0.6927	0.6514	0.7367

Sample Size = 4363

Table 1 Weighted Categorical Statistics

The SURVEYFREQ Procedure

Data Summary	
Number of Observations	1447
Sum of Weights	4363

Table of SEX by hosp

SEX	hosp	Frequency	Weighted Frequency	Std Err of Wgt Freq	Percent	Std Err of Percent
Female	No	370	1450	65.72655	33.2340	1.3956
	Yes	311	647.00000	41.26600	14.8292	0.9600
	Total	681	2097	68.74069	48.0633	1.4506
Male	No	365	1358	63.70503	31.1254	1.3689
	Yes	401	908.00000	48.66068	20.8114	1.1251
	Total	766	2266	68.70742	51.9367	1.4506
Total	No	735	2808	75.19838	64.3594	1.3469
	Yes	712	1555	57.08056	35.6406	1.3469
	Total	1447	4363	53.60645	100.0000	

Rao-Scott Chi-Square Test	
Pearson Chi-Square	13.3776
Design Correction	1.1336
Rao-Scott Chi-Square	11.8010
Sample Size = 1447	

Rao-Scott Chi-Square Test	
DF	1
Pr > ChiSq	0.0006
F Value	11.8010
Num DF	1
Den DF	1446
Pr > F	0.0006
Sample Size = 1447	

Odds Ratio and Relative Risks (Row1/Row2)			
Statistic	Estimate	95% Confidence Limits	
Odds Ratio	1.4985	1.1885	1.8893
Column 1 Relative Risk	1.1538	1.0629	1.2525
Column 2 Relative Risk	0.7700	0.6622	0.8953
Sample Size = 1447			

Table of mrsafinal by hosp						
mrsafinal	hosp	Frequency	Weighted Frequency	Std Err of Wgt Freq	Percent	Std Err of Percent
MRSA	No	161	602.00000	46.01099	13.7978	1.0300
	Yes	298	631.00000	41.09750	14.4625	0.9538
	Total	459	1233	57.27668	28.2604	1.2893
MSSA	No	574	2206	73.31162	50.5615	1.4499
	Yes	414	924.00000	48.74023	21.1781	1.1296
	Total	988	3130	70.22049	71.7396	1.2893
Total	No	735	2808	75.19838	64.3594	1.3469
	Yes	712	1555	57.08056	35.6406	1.3469
	Total	1447	4363	53.60645	100.0000	

Rao-Scott Chi-Square Test	
Pearson Chi-Square	59.9755
Design Correction	1.1647
Rao-Scott Chi-Square	51.4953
DF	1
Pr > ChiSq	<.0001
F Value	51.4953
Num DF	1
Den DF	1446
Pr > F	<.0001
Sample Size = 1447	

Odds Ratio and Relative Risks (Row1/Row2)			
Statistic	Estimate	95% Confidence Limits	
Odds Ratio	0.3996	0.3100	0.5150
Column 1 Relative Risk	0.6927	0.6172	0.7775
Column 2 Relative Risk	1.7336	1.5018	2.0010

Odds Ratio and Relative Risks (Row1/Row2)		
Statistic	Estimate	95% Confidence Limits
Sample Size = 1447		

Table of kidney by hosp						
kidney	hosp	Frequency	Weighted Frequency	Std Err of Wgt Freq	Percent	Std Err of Percent
No	No	702	2700	75.21902	61.8840	1.3750
	Yes	532	1213	54.05718	27.8020	1.2530
	Total	1234	3913	63.64121	89.6860	0.8203
Yes	No	33	108.00000	20.00539	2.4754	0.4572
	Yes	180	342.00000	30.16284	7.8386	0.7004
	Total	213	450.00000	35.48134	10.3140	0.8203
Total	No	735	2808	75.19838	64.3594	1.3469
	Yes	712	1555	57.08056	35.6406	1.3469
	Total	1447	4363	53.60645	100.0000	

Rao-Scott Chi-Square Test	
Pearson Chi-Square	118.1689
Design Correction	1.1889
Rao-Scott Chi-Square	99.3910
DF	1
Pr > ChiSq	<.0001
F Value	99.3910
Num DF	1
Den DF	1446
Pr > F	<.0001
Sample Size = 1447	

Odds Ratio and Relative Risks (Row1/Row2)			
Statistic	Estimate	95% Confidence Limits	
Odds Ratio	7.0486	4.5941	10.8145
Column 1 Relative Risk	2.8750	2.1017	3.9328
Column 2 Relative Risk	0.4079	0.3577	0.4651
Sample Size = 1447			

Table of DIABETES by hosp						
DIABETES	hosp	Frequency	Weighted Frequency	Std Err of Wgt Freq	Percent	Std Err of Percent
No	No	651	2508	74.78567	57.4834	1.4150
	Yes	429	930.00000	48.35180	21.3156	1.1259
	Total	1080	3438	68.59107	78.7990	1.1552
Yes	No	84	300.00000	33.20488	6.8760	0.7534
	Yes	283	625.00000	41.52393	14.3250	0.9594
	Total	367	925.00000	50.67016	21.2010	1.1552
Total	No	735	2808	75.19838	64.3594	1.3469
	Yes	712	1555	57.08056	35.6406	1.3469

Table of DIABETES by hosp						
DIABETES	hosp	Frequency	Weighted Frequency	Std Err of Wgt Freq	Percent	Std Err of Percent
	Total	1447	4363	53.60645	100.0000	

Rao-Scott Chi-Square Test	
Pearson Chi-Square	173.0064
Design Correction	1.1876
Rao-Scott Chi-Square	145.6779
DF	1
Pr > ChiSq	<.0001
F Value	145.6779
Num DF	1
Den DF	1446
Pr > F	<.0001
Sample Size = 1447	

Odds Ratio and Relative Risks (Row1/Row2)			
Statistic	Estimate	95% Confidence Limits	
Odds Ratio	5.6183	4.1719	7.5660
Column 1 Relative Risk	2.2493	1.8751	2.6981
Column 2 Relative Risk	0.4003	0.3508	0.4570
Sample Size = 1447			

Table of SMOKER by hosp						
SMOKER	hosp	Frequency	Weighted Frequency	Std Err of Wgt Freq	Percent	Std Err of Percent
No	No	667	2557	74.84909	58.6065	1.4065
	Yes	546	1203	53.22418	27.5728	1.2425
	Total	1213	3760	64.65760	86.1792	0.9756
Yes	No	68	251.00000	30.66122	5.7529	0.6965
	Yes	166	352.00000	31.79734	8.0678	0.7335
	Total	234	603.00000	42.76657	13.8208	0.9756
Total	No	735	2808	75.19838	64.3594	1.3469
	Yes	712	1555	57.08056	35.6406	1.3469
	Total	1447	4363	53.60645	100.0000	

Rao-Scott Chi-Square Test	
Pearson Chi-Square	52.2877
Design Correction	1.1826
Rao-Scott Chi-Square	44.2155
DF	1
Pr > ChiSq	<.0001
F Value	44.2155
Num DF	1
Den DF	1446
Pr > F	<.0001
Sample Size = 1447	

Odds Ratio and Relative Risks (Row1/Row2)			
Statistic	Estimate	95% Confidence Limits	
Odds Ratio	2.9808	2.1385	4.1549
Column 1 Relative Risk	1.6338	1.3596	1.9631
Column 2 Relative Risk	0.5481	0.4698	0.6395
Sample Size = 1447			

Table of BSI by hosp						
BSI	hosp	Frequency	Weighted Frequency	Std Err of Wgt Freq	Percent	Std Err of Percent
No	No	713	2783	75.59388	63.7864	1.3507
	Yes	334	1123	58.39357	25.7392	1.2844
	Total	1047	3906	69.29320	89.5256	0.6141
Yes	No	22	25.00000	6.04924	0.5730	0.1397
	Yes	378	432.00000	22.79004	9.9014	0.5965
	Total	400	457.00000	23.26030	10.4744	0.6141
Total	No	735	2808	75.19838	64.3594	1.3469
	Yes	712	1555	57.08056	35.6406	1.3469
	Total	1447	4363	53.60645	100.0000	

Rao-Scott Chi-Square Test	
Pearson Chi-Square	255.9545
Design Correction	0.6271
Rao-Scott Chi-Square	408.1769
DF	1
Pr > ChiSq	<.0001
F Value	408.1769
Num DF	1
Den DF	1446
Pr > F	<.0001
Sample Size = 1447	

Odds Ratio and Relative Risks (Row1/Row2)			
Statistic	Estimate	95% Confidence Limits	
Odds Ratio	42.8230	25.7204	71.2980
Column 1 Relative Risk	13.0244	8.1727	20.7562
Column 2 Relative Risk	0.3041	0.2750	0.3364
Sample Size = 1447			

Table of WOUND by hosp						
WOUND	hosp	Frequency	Weighted Frequency	Std Err of Wgt Freq	Percent	Std Err of Percent
No	No	591	2232	73.19042	51.1575	1.4484

Table of WOUND by hosp						
WOUND	hosp	Frequency	Weighted Frequency	Std Err of Wgt Freq	Percent	Std Err of Percent
	Yes	596	1091	47.43384	25.0057	1.1549
	Total	1187	3323	65.10562	76.1632	1.2740
Yes	No	144	576.00000	45.56478	13.2019	1.0189
	Yes	116	464.00000	41.33271	10.6349	0.9292
	Total	260	1040	58.43700	23.8368	1.2740
Total	No	735	2808	75.19838	64.3594	1.3469
	Yes	712	1555	57.08056	35.6406	1.3469
	Total	1447	4363	53.60645	100.0000	

Rao-Scott Chi-Square Test	
Pearson Chi-Square	15.9023
Design Correction	1.2392
Rao-Scott Chi-Square	12.8327
DF	1
Pr > ChiSq	0.0003
F Value	12.8327
Num DF	1
Den DF	1446
Pr > F	0.0004
Sample Size = 1447	

Odds Ratio and Relative Risks (Row1/Row2)			
Statistic	Estimate	95% Confidence Limits	
Odds Ratio	1.6480	1.2494	2.1738
Column 1 Relative Risk	1.2128	1.0786	1.3635
Column 2 Relative Risk	0.7359	0.6264	0.8645
Sample Size = 1447			

Table 2 Weighted Interval Statistics

The SURVEYMEANS Procedure

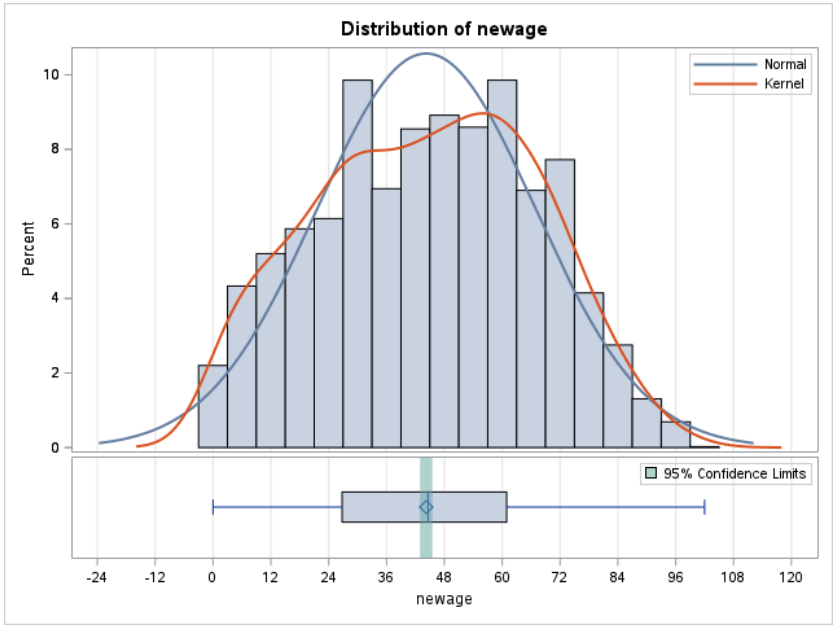
Data Summary	
Number of Observations	1447
Sum of Weights	4363

Statistics				
Variable	N Miss	Var of Mean	Lower 95% One-Sided CL for Mean	Upper 95% One-Sided CL for Mean
newage	0	0.430100	43.162157	45.320997

Quantiles						
Variable	Percentile		Estimate	Std Error	95% Confidence Limits	
newage	50	Median	44.617188	1.105049	42.4495167	46.7848583

Table 2 Weighted Interval Statistics

The SURVEYMEANS Procedure



Check Age distribution for normality

The UNIVARIATE Procedure
Variable: newage

Weight: WEIGHT

Weighted Moments			
N	1447	Sum Weights	4363
Mean	44.2415769	Sum Observations	193026
Std Deviation	39.3275371	Variance	1546.65517
Skewness	-0.1043969	Kurtosis	-0.4038695
Uncorrected SS	10776238	Corrected SS	2236463.38
Coeff Variation	88.8927109	Std Error Mean	0.59539357

Weighted Basic Statistical Measures			
Location		Variability	
Mean	44.24158	Std Deviation	39.32754
Median	45.00000	Variance	1547
Mode	61.00000	Range	102.00000
		Interquartile Range	34.00000

Weighted Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	74.30644	Pr > |t|	<.0001

Weighted Quantiles	
Level	Quantile
100% Max	102
99%	89
95%	80
90%	73
75% Q3	61
50% Median	45
25% Q1	27
10%	12
5%	6
1%	1
0% Min	0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	107	97	406
1	1250	97	982
1	1171	97	1259
1	1147	98	560
1	1142	102	366

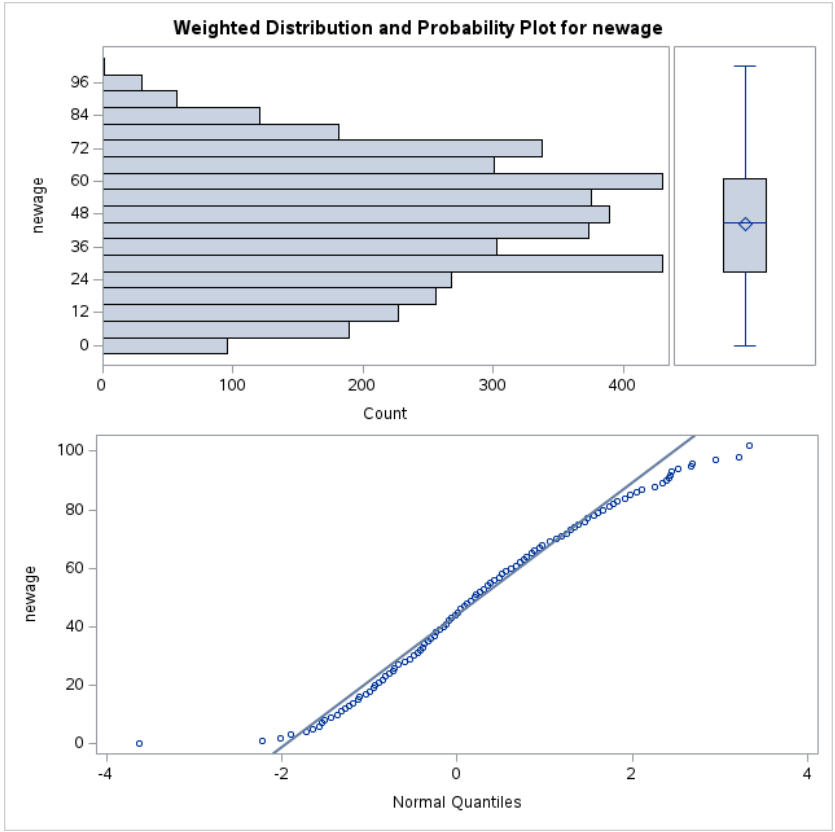


Table 3 Weighted two-sample t-test of age by hospital status

The TTEST Procedure

Variable: newage

Weight: WEIGHT

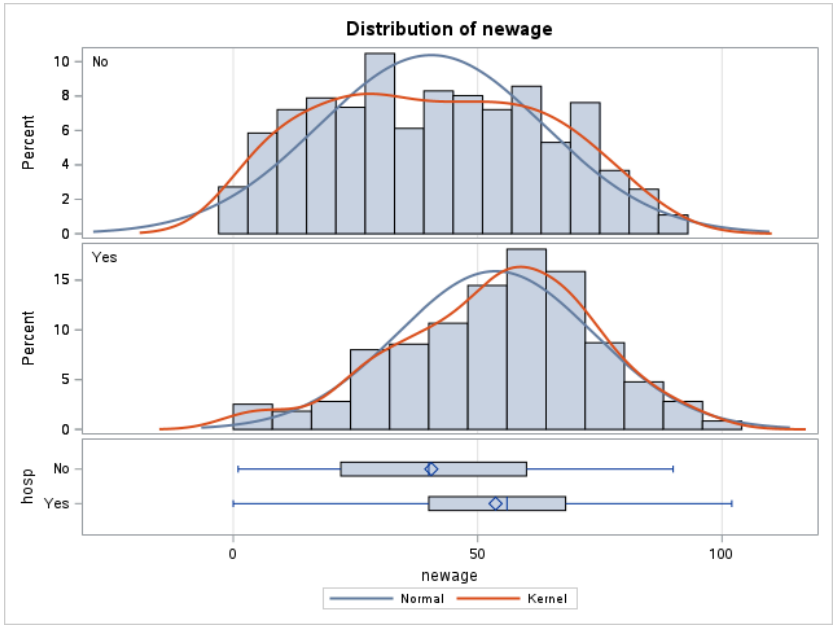
hosp	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
No		735	39.9014	44.8881	0.8471	1.0000	90.0000
Yes		712	52.0791	29.2687	0.7422	0	102.0
Diff (1-2)	Pooled		-12.1777	38.0134	1.2016		
Diff (1-2)	Satterthwaite		-12.1777		1.1263		

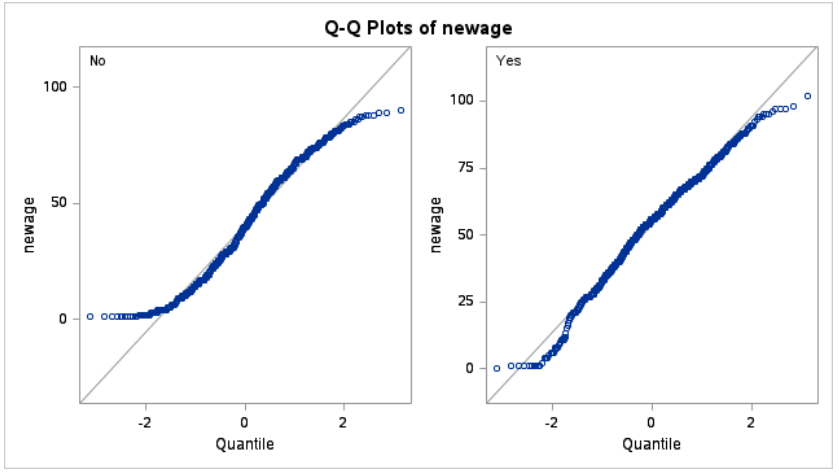
hosp	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
No		39.9014	38.2383	41.5644	44.8881	42.7048	47.3085
Yes		52.0791	50.6219	53.5363	29.2687	27.8234	30.8735
Diff (1-2)	Pooled	-12.1777	-14.5348	-9.8207	38.0134	36.6767	39.4519

hosp	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
Diff (1-2)	Satterthwaite	-12.1777	-14.3871	-9.9684			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	1445	-10.13	<.0001
Satterthwaite	Unequal	1426	-10.81	<.0001

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	734	711	2.35	<.0001





Binary Weighted Surveylogistic Reg Model

The SURVEYLOGISTIC Procedure

Model Information	
Data Set	S.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		
Class	Value	Design Variables
SEX	Female	1
	Male	0
mrsafinal	MRSA	1
	MSSA	0
kidney	No	0
	Yes	1
DIABETES	No	0
	Yes	1
SMOKER	No	0
	Yes	1
BSI	No	0
	Yes	1
WOUND	No	0
	Yes	1

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

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	5685.439	4151.051
SC	5691.820	4202.098
-2 Log L	5683.439	4135.051

Testing Global Null Hypothesis: BETA=0				
Test	F Value	Num DF	Den DF	Pr > F
Likelihood Ratio	73.35	7.0000	10115	<.0001
Score	118.59	7	1439	<.0001
Wald	38.66	7	1439	<.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
SEX	4.18	1	1445	0.0410
SMOKER	19.97	1	1445	<.0001
mrsafinal	21.81	1	1445	<.0001
kidney	17.11	1	1445	<.0001
DIABETES	44.38	1	1445	<.0001
BSI	167.69	1	1445	<.0001
WOUND	19.19	1	1445	<.0001

Analysis of Maximum Likelihood Estimates					
Parameter		Estimate	Standard Error	t Value	Pr > |t|
Intercept		-1.7448	0.1372	-12.71	<.0001
SEX	Female	-0.3076	0.1504	-2.05	0.0410
SMOKER	Yes	0.9733	0.2178	4.47	<.0001
mrsafinal	MRSA	0.7514	0.1609	4.67	<.0001
kidney	Yes	1.1831	0.2860	4.14	<.0001
DIABETES	Yes	1.2669	0.1902	6.66	<.0001
BSI	Yes	3.7143	0.2868	12.95	<.0001
WOUND	Yes	0.7351	0.1678	4.38	<.0001
NOTE: The degrees of freedom for the t tests is 1445.					

Odds Ratio Estimates			
Effect	Point Estimate	95% Confidence Limits	
SEX Female vs Male	0.735	0.547	0.988
SMOKER Yes vs No	2.647	1.726	4.057
mrsafinal MRSA vs MSSA	2.120	1.546	2.907
kidney Yes vs No	3.265	1.863	5.721
DIABETES Yes vs No	3.550	2.444	5.155
BSI Yes vs No	41.031	23.375	72.023
WOUND Yes vs No	2.086	1.501	2.899
NOTE: The degrees of freedom in computing the confidence limits is 1445.			

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	84.8	Somers' D	0.729
Percent Discordant	11.9	Gamma	0.753
Percent Tied	3.2	Tau-a	0.365
Pairs	523320	c	0.864

Full Weighted Surveylogistic Reg Model

The SURVEYLOGISTIC Procedure

Model Information	
Data Set	S.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		
Class	Value	Design Variables
mrsafinal	MRSA	1
	MSSA	0
kidney	No	0
	Yes	1
DIABETES	No	0
	Yes	1
SMOKER	No	0
	Yes	1
BSI	No	0
	Yes	1
WOUND	No	0
	Yes	1

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

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

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

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.				

Type 3 Analysis of Effects				
Effect	F Value	Num DF	Den DF	Pr > F
SMOKER	22.54	1	1445	<.0001

Type 3 Analysis of Effects				
Effect	F Value	Num DF	Den DF	Pr > F
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: The degrees of freedom for the t tests is 1445.					

Odds Ratio Estimates			
Effect	Point Estimate	95% Confidence Limits	
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.			

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	c	0.865

Community-onset model

The SURVEYLOGISTIC Procedure

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 Information	
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		
Class	Value	Design Variables
mrsafinal	MRSA	1
	MSSA	0
kidney	No	0
	Yes	1
DIABETES	No	0
	Yes	1
SMOKER	No	0
	Yes	1
BSI	No	0
	Yes	1
WOUND	No	0
	Yes	1

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

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	3020.422	2305.886
SC	3026.397	2347.710
-2 Log L	3018.422	2291.886

Testing Global Null Hypothesis: BETA=0				
Test	F Value	Num DF	Den DF	Pr > F
Likelihood Ratio	35.21	6.0000	5063.98	<.0001
Score	42.38	6	839	<.0001
Wald	28.63	6	839	<.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	20.57	1	844	<.0001
mrsafinal	8.87	1	844	0.0030
kidney	2.98	1	844	0.0845
DIABETES	22.16	1	844	<.0001
BSI	127.84	1	844	<.0001
WOUND	9.16	1	844	0.0025

Analysis of Maximum Likelihood Estimates					
Parameter		Estimate	Standard Error	t Value	Pr > |t|
Intercept		-2.4038	0.1607	-14.96	<.0001
SMOKER	Yes	1.2186	0.2687	4.54	<.0001
mrsafinal	MRSA	0.6762	0.2270	2.98	0.0030
kidney	Yes	0.8235	0.4768	1.73	0.0845
DIABETES	Yes	1.2675	0.2693	4.71	<.0001
BSI	Yes	4.6364	0.4101	11.31	<.0001
WOUND	Yes	0.7242	0.2393	3.03	0.0025
NOTE: The degrees of freedom for the t tests is 844.					

Odds Ratio Estimates			
Effect	Point Estimate	95% Confidence Limits	
SMOKER Yes vs No	3.382	1.996	5.731
mrsafinal MRSA vs MSSA	1.966	1.259	3.071
kidney Yes vs No	2.279	0.894	5.809
DIABETES Yes vs No	3.552	2.094	6.026
BSI Yes vs No	103.172	46.134	230.728
WOUND Yes vs No	2.063	1.290	3.300
NOTE: The degrees of freedom in computing the confidence limits is 844.			

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	78.3	Somers' D	0.669
Percent Discordant	11.4	Gamma	0.746
Percent Tied	10.3	Tau-a	0.283
Pairs	151040	c	0.835

Hospital-associated model

The SURVEYLOGISTIC Procedure

Model Information	
Data Set	S.STAPH

Model Information	
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

Class	Value	Design Variables
SEX	Female	1
	Male	0
mrsafinal	MRSA	1
	MSSA	0
kidney	No	0
	Yes	1
DIABETES	No	0
	Yes	1
SMOKER	No	0
	Yes	1
BSI	No	0
	Yes	1
WOUND	No	0
	Yes	1

Stratum Information

Stratum Index	INVASIVE	N Obs
1	No	953
2	Yes	494

Model Convergence Status

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

Model Fit Statistics

Criterion	Intercept Only	Intercept and Covariates
AIC	5685.439	4151.051
SC	5691.820	4202.098
-2 Log L	5683.439	4135.051

Testing Global Null Hypothesis: BETA=0

Test	F Value	Num DF	Den DF	Pr > F
Likelihood Ratio	73.35	7.0000	10115	<.0001
Score	118.59	7	1439	<.0001
Wald	38.66	7	1439	<.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
SEX	4.18	1	1445	0.0410
SMOKER	19.97	1	1445	<.0001
mrsafinal	21.81	1	1445	<.0001
kidney	17.11	1	1445	<.0001
DIABETES	44.38	1	1445	<.0001
BSI	167.69	1	1445	<.0001
WOUND	19.19	1	1445	<.0001

Analysis of Maximum Likelihood Estimates

Parameter		Estimate	Standard Error	t Value	Pr > |t|
Intercept		-1.7448	0.1372	-12.71	<.0001
SEX	Female	-0.3076	0.1504	-2.05	0.0410
SMOKER	Yes	0.9733	0.2178	4.47	<.0001
mrsafinal	MRSA	0.7514	0.1609	4.67	<.0001
kidney	Yes	1.1831	0.2860	4.14	<.0001
DIABETES	Yes	1.2669	0.1902	6.66	<.0001
BSI	Yes	3.7143	0.2868	12.95	<.0001
WOUND	Yes	0.7351	0.1678	4.38	<.0001

NOTE: The degrees of freedom for the t tests is 1445.

Odds Ratio Estimates

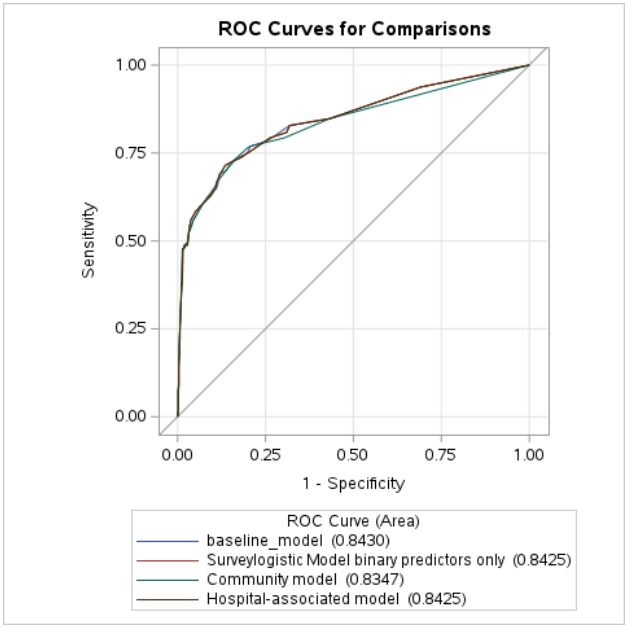
Effect	Point Estimate	95% Confidence Limits	
SEX Female vs Male	0.735	0.547	0.988
SMOKER Yes vs No	2.647	1.726	4.057
mrsafinal MRSA vs MSSA	2.120	1.546	2.907
kidney Yes vs No	3.265	1.863	5.721
DIABETES Yes vs No	3.550	2.444	5.155
BSI Yes vs No	41.031	23.375	72.023
WOUND Yes vs No	2.086	1.501	2.899

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

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	84.8	Somers' D	0.729
Percent Discordant	11.9	Gamma	0.753
Percent Tied	3.2	Tau-a	0.365
Pairs	523320	c	0.864

Hospital-associated model

The LOGISTIC Procedure



ROC Association Statistics							
	Mann-Whitney						
ROC Model	Area	Standard Error	95% Wald Confidence Limits		Somers' D	Gamma	Tau-a
baseline_model	0.8430	0.0163	0.8111	0.8749	0.6861	0.7224	0.2899
Surveylogistic Model binary predictors only	0.8425	0.0163	0.8106	0.8745	0.6851	0.7214	0.2895
Community model	0.8347	0.0167	0.8020	0.8673	0.6694	0.7453	0.2828
Hospital-associated model	0.8425	0.0163	0.8106	0.8745	0.6851	0.7214	0.2895