

**Your_Health_Plan
Profile Analysis
Results Section**

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**Your_Health_Plan
Profile Analysis
Results Section**
*AFTER applying minimum volume threshold at 40
Any infection indicator, including prescription data
Both classes of procedures*

leadinst	quartile	nepisodes	indicator	indic_pct	inpt_pct	inhosp_pct	rehosp_pct
Hospital_N	1	40	0	0.0	0.0	0.0	0.0
Hospital_J	1	47	1	2.1	0.0	0.0	0.0
Hospital_D	2	43	1	2.3	0.0	0.0	0.0
Hospital_T	2	48	2	4.2	0.0	0.0	0.0
Hospital_M	2	41	2	4.9	0.0	0.0	0.0
Hospital_L	3	60	3	5.0	0.0	0.0	0.0
Hospital_B	3	84	8	9.5	1.2	0.0	1.2
Hospital_A	3	64	7	10.9	1.6	0.0	1.6
Hospital_C	4	45	5	11.1	2.2	0.0	2.2
Hospital_K	4	45	5	11.1	0.0	0.0	0.0
		517	34				

leadinst	outpt_pct	clin_pct	wound_pct	lab_pct	er_pct	abx_pct
Hospital_N	0.0	0.0	0.0	0.0	0.0	0.0
Hospital_J	2.1	2.1	0.0	0.0	0.0	0.0
Hospital_D	2.3	0.0	0.0	2.3	0.0	0.0
Hospital_T	4.2	0.0	4.2	0.0	0.0	0.0
Hospital_M	4.9	0.0	4.9	0.0	0.0	4.9
Hospital_L	5.0	0.0	5.0	0.0	0.0	5.0
Hospital_B	9.5	0.0	3.6	2.4	0.0	7.1
Hospital_A	9.4	0.0	6.3	3.1	0.0	3.1
Hospital_C	11.1	0.0	2.2	0.0	0.0	8.9
Hospital_K	11.1	4.4	0.0	0.0	0.0	11.1

**Your_Health_Plan
Profile Analysis
Logistic Model #1
All cardiac procedures
Any infection indicator, including prescription data**

Model Information	
Data Set	WORK.QUALCARD
Response Variable	Indicator_Using_Rx
Number of Response Levels	2
Number of Observations	517
Model	binary logit
Optimization Technique	Fisher's scoring

Response Profile		
Ordered Value	Indicator_Using_Rx	Total Frequency
1	yes	34
2	no	483

Probability modeled is Indicator_Using_Rx='yes'.

Class Level Information										
Class	Value	Design Variables								
		1	2	3	4	5	6	7	8	9
plantype	Other	1	0							
	Commercial	0	1							
CardiacProcedureType	Noninvasive	1	0							
	Invasive	0	1							
inst	Hospital_T	1	0	0	0	0	0	0	0	0
	Hospital_M	0	1	0	0	0	0	0	0	0
	Hospital_L	0	0	1	0	0	0	0	0	0
	Hospital_K	0	0	0	1	0	0	0	0	0
	Hospital_D	0	0	0	0	1	0	0	0	0

**Your_Health_Plan
Profile Analysis
Logistic Model #1
All cardiac procedures
Any infection indicator, including prescription data**

Class Level Information										
Class	Value	Design Variables								
		1	2	3	4	5	6	7	8	9
	Hospital_C	0	0	0	0	0	1	0	0	0
	Hospital_B	0	0	0	0	0	0	1	0	0
	Hospital_A	0	0	0	0	0	0	0	1	0
	0:Low quartile	0	0	0	0	0	0	0	0	1
sex	M	1	0							
	F	0	1							

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

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	252.788	257.120
SC	257.036	312.344
-2 Log L	250.788	231.120

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	19.6679	12	0.0736
Score	18.5532	12	0.0999
Wald	15.2210	12	0.2296

**Your_Health_Plan
Profile Analysis
Logistic Model #1
All cardiac procedures
Any infection indicator, including prescription data**

Type III Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
inst	8	9.7058	0.2863
plantype	1	0.3275	0.5671
CardiacProcedureType	1	0.0000	0.9954
sex	1	0.6653	0.4147
highcdfs	1	4.7442	0.0294

Odds Ratio Estimates					
Effect			Point Estimate	95% Wald Confidence Limits	
inst	Hospital_T	vs 0:Low quartile	3.649	0.320	41.583
inst	Hospital_M	vs 0:Low quartile	4.655	0.408	53.171
inst	Hospital_L	vs 0:Low quartile	2.364	0.220	25.371
inst	Hospital_K	vs 0:Low quartile	10.153	1.138	90.550
inst	Hospital_D	vs 0:Low quartile	1.984	0.121	32.640
inst	Hospital_C	vs 0:Low quartile	11.206	1.259	99.771
inst	Hospital_B	vs 0:Low quartile	5.369	0.611	47.171
inst	Hospital_A	vs 0:Low quartile	5.489	0.600	50.201
plantype	Other	vs Commercial	1.246	0.586	2.648
CardiacProcedureType	Noninvasive vs Invasive		0.998	0.429	2.322
sex	M vs F		0.727	0.338	1.565
highcdfs			0.355	0.140	0.902

**Your_Health_Plan
Profile Analysis
Logistic Model #1
All cardiac procedures
Any infection indicator, including prescription data**

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	70.7	Somers' D	0.440
Percent Discordant	26.7	Gamma	0.452
Percent Tied	2.6	Tau-a	0.054
Pairs	16422	c	0.720

**Your_Health_Plan
Profile Analysis
Logistic Model #1A
Invasive cardiac procedures only
Any infection indicator, including prescription data**

Model Information	
Data Set	WORK.QUALCARD
Response Variable	Indicator_Using_Rx
Number of Response Levels	2
Number of Observations	132
Model	binary logit
Optimization Technique	Fisher's scoring

Response Profile		
Ordered Value	Indicator_Using_Rx	Total Frequency
1	yes	8
2	no	124

Probability modeled is Indicator_Using_Rx='yes'.

Class Level Information		Design Variables								
Class	Value	1	2	3	4	5	6	7	8	9
plantype	Other	1	0							
	Commercial	0	1							
inst	Hospital_T	1	0	0	0	0	0	0	0	0
	Hospital_M	0	1	0	0	0	0	0	0	0
	Hospital_L	0	0	1	0	0	0	0	0	0
	Hospital_K	0	0	0	1	0	0	0	0	0
	Hospital_D	0	0	0	0	1	0	0	0	0
	Hospital_C	0	0	0	0	0	1	0	0	0
	Hospital_B	0	0	0	0	0	0	1	0	0

**Your_Health_Plan
Profile Analysis
Logistic Model #1A
Invasive cardiac procedures only
Any infection indicator, including prescription data**

Class Level Information		Design Variables								
Class	Value	1	2	3	4	5	6	7	8	9
	Hospital_A	0	0	0	0	0	0	0	1	0
	0:Low quartile	0	0	0	0	0	0	0	0	1
sex	M	1	0							
	F	0	1							

Model Convergence Status
Quasi-complete separation of data points detected.

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	62.359	76.812
SC	65.242	111.406
-2 Log L	60.359	52.812

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	7.5467	11	0.7532
Score	6.6673	11	0.8253
Wald	5.0553	11	0.9285

**Your_Health_Plan
Profile Analysis
Logistic Model #1A
Invasive cardiac procedures only
Any infection indicator, including prescription data**

WARNING: The validity of the model fit is questionable.

Type III Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
inst	8	3.2508	0.9176
plantype	1	0.0070	0.9332
sex	1	0.5521	0.4575
highcnds	1	3.5604	0.0592

Odds Ratio Estimates					
Effect			Point Estimate	95% Wald Confidence Limits	
inst	Hospital_T	vs 0:Low quartile	2.567	0.131	50.218
inst	Hospital_M	vs 0:Low quartile	<0.001	<0.001	>999.999
inst	Hospital_L	vs 0:Low quartile	0.362	0.012	10.820
inst	Hospital_K	vs 0:Low quartile	2.569	0.106	62.271
inst	Hospital_D	vs 0:Low quartile	2.911	0.147	57.613
inst	Hospital_C	vs 0:Low quartile	3.059	0.144	65.078
inst	Hospital_B	vs 0:Low quartile	0.253	0.010	6.432
inst	Hospital_A	vs 0:Low quartile	0.453	0.017	12.409
plantype	Other	vs Commercial	0.928	0.162	5.331
sex	M vs F		0.513	0.089	2.979
highcnds			0.104	0.010	1.092

**Your_Health_Plan
Profile Analysis
Logistic Model #1A
Invasive cardiac procedures only
Any infection indicator, including prescription data**

WARNING: The validity of the model fit is questionable.

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	74.8	Somers' D	0.521
Percent Discordant	22.7	Gamma	0.535
Percent Tied	2.5	Tau-a	0.060
Pairs	992	c	0.761

**Your_Health_Plan
Profile Analysis
Logistic Model #1B
Noninvasive procedures only
Any infection indicator, including prescription data**

Model Information	
Data Set	WORK.QUALCARD
Response Variable	Indicator_Using_Rx
Number of Response Levels	2
Number of Observations	385
Model	binary logit
Optimization Technique	Fisher's scoring

Response Profile		
Ordered Value	Indicator_Using_Rx	Total Frequency
1	yes	26
2	no	359

Probability modeled is Indicator_Using_Rx='yes'.

Class Level Information										
Class	Value	Design Variables								
		1	2	3	4	5	6	7	8	9
plantype	Other	1	0							
	Commercial	0	1							
CardiacProcedureType	Noninvasive	1								
inst	Hospital_T	1	0	0	0	0	0	0	0	0
	Hospital_M	0	1	0	0	0	0	0	0	0
	Hospital_L	0	0	1	0	0	0	0	0	0
	Hospital_K	0	0	0	1	0	0	0	0	0
	Hospital_D	0	0	0	0	1	0	0	0	0
Hospital_C	0	0	0	0	0	1	0	0	0	

**Your_Health_Plan
Profile Analysis
Logistic Model #1B
Noninvasive procedures only
Any infection indicator, including prescription data**

Class Level Information										
Class	Value	Design Variables								
		1	2	3	4	5	6	7	8	9
	Hospital_B	0	0	0	0	0	0	1	0	0
	Hospital_A	0	0	0	0	0	0	0	1	0
	0:Low quartile	0	0	0	0	0	0	0	0	1
sex	M	1	0							
	F	0	1							

Model Convergence Status
Quasi-complete separation of data points detected.

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	192.351	190.941
SC	196.304	238.380
-2 Log L	190.351	166.941

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	23.4094	11	0.0155
Score	18.2475	11	0.0760
Wald	7.2251	11	0.7806

**Your_Health_Plan
Profile Analysis
Logistic Model #1B
Noninvasive procedures only
Any infection indicator, including prescription data**

WARNING: The validity of the model fit is questionable.

Type III Analysis of Effects			
Effect	DF	Wald Chi-Square	Pr > ChiSq
inst	8	4.2945	0.8296
plantype	1	0.6473	0.4211
CardiacProcedureType	0	.	.
sex	1	0.4195	0.5172
highcnds	1	2.5537	0.1100

Odds Ratio Estimates					
Effect			Point Estimate	95% Wald Confidence Limits	
inst	Hospital_T	vs 0:Low quartile	>999.999	<0.001	>999.999
inst	Hospital_M	vs 0:Low quartile	>999.999	<0.001	>999.999
inst	Hospital_L	vs 0:Low quartile	>999.999	<0.001	>999.999
inst	Hospital_K	vs 0:Low quartile	>999.999	<0.001	>999.999
inst	Hospital_D	vs 0:Low quartile	0.962	<0.001	>999.999
inst	Hospital_C	vs 0:Low quartile	>999.999	<0.001	>999.999
inst	Hospital_B	vs 0:Low quartile	>999.999	<0.001	>999.999
inst	Hospital_A	vs 0:Low quartile	>999.999	<0.001	>999.999
plantype	Other	vs Commercial	1.436	0.595	3.466
sex	M vs F		0.745	0.306	1.814
highcnds			0.419	0.144	1.218

**Your_Health_Plan
Profile Analysis
Logistic Model #1B
Noninvasive procedures only
Any infection indicator, including prescription data**

WARNING: The validity of the model fit is questionable.

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	74.2	Somers' D	0.515
Percent Discordant	22.7	Gamma	0.531
Percent Tied	3.1	Tau-a	0.065
Pairs	9334	c	0.757