

## **Appendix 5**

### **Multivariate Modeling for the Validation of Post-Acute Care Quality Measures**

**\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*<sup>1</sup>**

**(1) PAC-DELOX1  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PDELX1 ADJUSTED QI SCORE,PDELX1

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	12	0.05654	0.00471	2.62	0.0033
Error	149	0.26755	0.00180		
Corrected Total	161	0.32410			

  

Root MSE	0.04238	R-Square	0.1745
Dependent Mean	0.03629	Adj R-Sq	0.1080
Coeff Var	116.76962		

**Parameter Estimates**

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.11173	0.02511	4.45	<.0001
AS14CB	14cb. num residents in meal training	1	-0.00646	0.00359	-1.80	0.0742
AS26AA	26aa. rev prog-delirium-cna?	1	-0.01365	0.00826	-1.65	0.1006
AS26GA	26ga. rev prog-behav funct-cna?	1	0.00450	0.00866	0.52	0.6037
AS27B	27b.1 daily repts-behav function	1	-0.01804	0.01088	-1.66	0.0995
AS27D	27d.1 daily repts-commun change	1	-0.00020683	0.01115	-0.02	0.9852
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000357	0.00000169	-2.12	0.0360
val2	Monitor Change in	1	0.00015429	0.00189	0.08	0.9352

<sup>1</sup> For 15 QMs that had significant and supportive associations with both preventive and responsive validation variables, we presented the outputs from two multivariable validation models per QM: one model with only preventive variables, the other with preventive and responsive variables. For 11 QMs that had significant and supportive associations with only preventive validation variables, we presented outputs from one model per QM with preventive variables.

	Function/Cognitive Care (JNM)					
	VAL2+					
val18	Behavioral Items (YH) VAL18+	1	-0.00030434	0.00056211	-0.54	0.5890
val37	CDCPI-Incontinence (JNM)	1	-0.00285	0.00167	-1.71	0.0903
	VAL37+					
val74	Focus on Catheter (JNM) VAL74+	1	-0.00012873	0.00117	-0.11	0.9125
val75	Physical Restraints (JA)	1	0.00317	0.00952	0.33	0.7396
	VAL75+					
val99	Training & Policy for	1	-0.00105	0.00175	-0.60	0.5523
	Suspicious Skin (PILOT) VAL99+					

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(1) PAC-DELOX1  
PREVENTIVE + RESPONSIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PDELX1 ADJUSTED QI SCORE,PDELX1

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	13	0.06376	0.00490	2.79	0.0014
Error	148	0.26034	0.00176		
Corrected Total	161	0.32410			

Root MSE	0.04194	R-Square	0.1967
Dependent Mean	0.03629	Adj R-Sq	0.1262
Coeff Var	115.57334		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.09995	0.02552	3.92	0.0001
AS14CB	14cb. num residents in meal training	1	-0.00639	0.00356	-1.80	0.0745
AS26AA	26aa. rev prog-delirium-cna?	1	-0.01595	0.00826	-1.93	0.0554
AS26GA	26ga. rev prog-behav funct-cna?	1	0.00736	0.00868	0.85	0.3979
AS27B	27b.1 daily repts-behav function	1	-0.02000	0.01081	-1.85	0.0663
AS27D	27d.1 daily repts-commun change	1	-0.00031142	0.01103	-0.03	0.9775
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000327	0.00000168	-1.95	0.0534
val2	Monitor Change in Function/Cognitive Care (JNM) VAL2+	1	0.00006386	0.00188	0.03	0.9729
val18	Behavioral Items (YH) VAL18+	1	-0.00019579	0.00055893	-0.35	0.7266
val37	CDCPI-Incontinence (JNM) VAL37+	1	-0.00265	0.00166	-1.60	0.1112
val74	Focus on Catheter (JNM) VAL74+	1	-0.00008070	0.00116	-0.07	0.9445

val75	Physical Restraints (JA)	1	0.00074018	0.00950	0.08	0.9380
	VAL75+					
val99	Training & Policy for	1	-0.00079405	0.00174	-0.46	0.6490
	Suspicious Skin (PILOT) VAL99+					
C_2	(mean) x2	1	0.15791	0.07798	2.02	0.0447

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(2) PAC-DELOX2  
PREVENTIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: OL\_PDELX2 RAW OBSERVED QI SCORE, PDELX2

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	12	0.06408	0.00534	2.58	0.0039
Error	149	0.30853	0.00207		
Corrected Total	161	0.37261			

  

Root MSE	0.04550	R-Square	0.1720
Dependent Mean	0.03924	Adj R-Sq	0.1053
Coeff Var	115.97028		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.12032	0.02696	4.46	<.0001
AS14CB	14cb. num residents in meal training	1	-0.00662	0.00386	-1.71	0.0886
AS26AA	26aa. rev prog-delirium-cna?	1	-0.01573	0.00887	-1.77	0.0783
AS26GA	26ga. rev prog-behav funct-cna?	1	0.00626	0.00930	0.67	0.5014
AS27B	27b.1 daily repts-behav function	1	-0.01885	0.01168	-1.61	0.1087
AS27D	27d.1 daily repts-commun change	1	-0.00093441	0.01197	-0.08	0.9379
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000355	0.00000181	-1.96	0.0523
val2	Monitor Change in Function/Cognitive Care (JNM) VAL2+	1	0.00040072	0.00203	0.20	0.8441
val18	Behavioral Items (YH) VAL18+	1	-0.00041966	0.00060362	-0.70	0.4880
val37	CDCPI-Incontinence (JNM) VAL37+	1	-0.00306	0.00179	-1.71	0.0901
val74	Focus on Catheter (JNM) VAL74+	1	-0.00019960	0.00126	-0.16	0.8739

val75	Physical Restraints (JA)	1	0.00306	0.01022	0.30	0.7654
	VAL75+					
val99	Training & Policy for	1	-0.00106	0.00188	-0.56	0.5742
	Suspicious Skin (PILOT) VAL99+					

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(2) PAC-DELOX2  
PREVENTIVE + RESPONSIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: OL\_PDELX2 RAW OBSERVED QI SCORE, PDELX2

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	13	0.07254	0.00558	2.75	0.0016
Error	148	0.30007	0.00203		
Corrected Total	161	0.37261			

Root MSE	0.04503	R-Square	0.1947
Dependent Mean	0.03924	Adj R-Sq	0.1240
Coeff Var	114.75451		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.10755	0.02740	3.93	0.0001
AS14CB	14cb. num residents in meal training	1	-0.00654	0.00382	-1.71	0.0891
AS26AA	26aa. rev prog-delirium-cna?	1	-0.01821	0.00886	-2.05	0.0416
AS26GA	26ga. rev prog-behav funct-cna?	1	0.00936	0.00932	1.00	0.3170
AS27B	27b.1 daily repts-behav function	1	-0.02098	0.01161	-1.81	0.0727
AS27D	27d.1 daily repts-commun change	1	-0.00105	0.01184	-0.09	0.9296
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000322	0.00000180	-1.79	0.0762
val2	Monitor Change in Function/Cognitive Care (JNM) VAL2+	1	0.00030277	0.00201	0.15	0.8807
val18	Behavioral Items (YH) VAL18+	1	-0.00030208	0.00060006	-0.50	0.6154
val37	CDCPI-Incontinence (JNM) VAL37+	1	-0.00285	0.00178	-1.60	0.1112
val74	Focus on Catheter (JNM) VAL74+	1	-0.00014758	0.00124	-0.12	0.9056



val75	Physical Restraints (JA)	1	0.00042444	0.01019	0.04	0.9668
	VAL75+					
val99	Training & Policy for	1	-0.00078910	0.00187	-0.42	0.6735
	Suspicious Skin (PILOT) VAL99+					
C_2	(mean) x2	1	0.17104	0.08372	2.04	0.0428

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(3) PAC-PAI0X1  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: OL\_PPAIX1 RAW OBSERVED QI SCORE, PPAIX1

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	28	0.97026	0.03465	2.03	0.0046
Error	118	2.01095	0.01704		
Corrected Total	146	2.98121			

  

Root MSE	0.13054	R-Square	0.3255
Dependent Mean	0.27974	Adj R-Sq	0.1654
Coeff Var	46.66623		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.53263	0.08853	6.02	<.0001
AS10	10. cna attend care planning meeting?	1	0.00340	0.04352	0.08	0.9379
AS11A	11a. plan mtgs sched in cna work day	1	-0.00969	0.02144	-0.45	0.6520
AS18E	18e. pract-obs chg in eating, sleeping?	1	-0.02818	0.03703	-0.76	0.4482
AS21B	21b. r\r progs-passive rantge of motion	1	-0.09820	0.09077	-1.08	0.2815
AS21D	21d. r\r prog-ambulation, gait train	1	0.04563	0.09102	0.50	0.6171
AS26FA	26fa. rev prog-commun chg-cna?	1	-0.00029420	0.02800	-0.01	0.9916
AS26GA	26ga. rev prog-behav funct-cna?	1	-0.04523	0.02165	-2.09	0.0388
AS26GB	26gb. rev prog-behav funct-rn,lpn\lvn?	1	0.04482	0.03575	1.25	0.2124
AS39A	39a. which incl in cqi-dehydration	1	0.00162	0.03236	0.05	0.9601
AS39E	39e. which incl in cqi-behav	1	-0.04206	0.03975	-1.06	0.2921

AS39F	function 39f. which incl in cqi-communic change	1	0.00425	0.03692	0.11	0.9086
AS39G	39g. which incl in cqi-bladder incontin	1	-0.01134	0.03741	-0.30	0.7623
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00001210	0.00000627	-1.93	0.0559
AS9D	9d. r\r aides contrib to pat care plan	1	0.00649	0.01509	0.43	0.6682
cnarat2	CNAs to total LNs	1	-0.00273	0.00658	-0.41	0.6791
WAM1	1. rooms personalized	1	-0.00969	0.01532	-0.63	0.5283
WAM12	12. out of bed, not for nap or bedtime	1	-0.01216	0.01292	-0.94	0.3482
WAM9	9. homelike appearance in facility	1	0.00833	0.01351	0.62	0.5385
val18	Behavioral Items (YH) VAL18+	1	0.00098850	0.00170	0.58	0.5609
val32	Incontinence Management (JNM) VAL32+	1	-0.00632	0.00880	-0.72	0.4744
val36	Focus on Incontinence (JNM) VAL36+	1	0.01522	0.01075	1.42	0.1594
val39	CDCPI-Psychosocial (JNM) VAL39+	1	-0.00188	0.00773	-0.24	0.8081
val57	CNA Involved in Care Planning (VM, JT) VAL57+	1	-0.01750	0.02173	-0.81	0.4221
val65	Record of MH Prof (RNJ) val65+	1	-0.00695	0.00580	-1.20	0.2335
val75	Physical Restraints (JA) VAL75+	1	0.03588	0.03353	1.07	0.2868
val109	ADLdec Improvement Scale (JNM)val109+	1	-0.01321	0.01003	-1.32	0.1903
val118	BladCont Improvement Scale (JNM)val118+	1	-0.01485	0.01718	-0.86	0.3891
val166	BUR Change (based on val46) (VM) val166+	1	-0.15957	0.10205	-1.56	0.1206

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(3) PAC-PAI0X1  
PREVENTIVE + RESPONSIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: OL\_PPAIX1 RAW OBSERVED QI SCORE, PPAIX1

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	35	1.46794	0.04194	3.08	<.0001
Error	111	1.51327	0.01363		
Corrected Total	146	2.98121			

Root MSE	0.11676	R-Square	0.4924
Dependent Mean	0.27974	Adj R-Sq	0.3323
Coeff Var	41.73887		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.28996	0.09670	3.00	0.0033
AS10	10. cna attend care planning meeting?	1	0.01160	0.04171	0.28	0.7814
AS11A	11a. plan mtgs sched in cna work day	1	-0.00606	0.01990	-0.30	0.7613
AS18E	18e. pract-obs chg in eating, sleeping?	1	-0.01349	0.03367	-0.40	0.6895
AS21B	21b. r\r progs-passive rantge of motion	1	-0.08540	0.08270	-1.03	0.3040
AS21D	21d. r\r prog-ambulation, gait train	1	0.05263	0.08229	0.64	0.5238
AS26FA	26fa. rev prog-commun chg-cna?	1	0.01350	0.02541	0.53	0.5962
AS26GA	26ga. rev prog-behav funct-cna?	1	-0.06081	0.01985	-3.06	0.0027
AS26GB	26gb. rev prog-behav funct-rn,lpn\lvn?	1	0.03422	0.03248	1.05	0.2944
AS39A	39a. which incl in cqi-dehydration	1	0.00465	0.03167	0.15	0.8836
AS39E	39e. which incl in cqi-behav	1	-0.05107	0.03608	-1.42	0.1598

	function					
AS39F	39f. which incl in	1	0.03617	0.03438	1.05	0.2950
	cqi-communic change					
AS39G	39g. which incl in cqi-bladder	1	-0.01186	0.03377	-0.35	0.7262
	incontin					
AS5CA	5ca. na\cna hours worked in	1	-0.00001036	0.00000580	-1.79	0.0767
	pay period					
AS9D	9d. r\r aides contrib to pat	1	0.00195	0.01395	0.14	0.8888
	care plan					
cnarat2	CNAs to total LNs	1	0.00172	0.00601	0.29	0.7760
WAM1	1. rooms personalized	1	-0.01029	0.01420	-0.72	0.4700
WAM12	12. out of bed, not for nap or	1	0.00092269	0.01195	0.08	0.9386
	bedtime					
WAM9	9. homelike appearance in	1	0.00390	0.01268	0.31	0.7590
	facility					
val18	Behavioral Items (YH) VAL18+	1	0.00060538	0.00160	0.38	0.7058
val32	Incontinence Management (JNM)	1	-0.00793	0.00802	-0.99	0.3249
	VAL32+					
val36	Focus on Incontinence (JNM)	1	0.01336	0.00968	1.38	0.1703
	VAL36+					
val39	CDCPI-Psychosocial (JNM)	1	0.00241	0.00702	0.34	0.7321
	VAL39+					
val57	CNA Involved in Care Planning	1	-0.01909	0.02074	-0.92	0.3595
	(VM, JT) VAL57+					
val65	Record of MH Prof (RNJ) val65+	1	-0.00367	0.00544	-0.67	0.5018
val75	Physical Restraints (JA)	1	0.05170	0.03033	1.70	0.0911
	VAL75+					
val109	ADLdec Improvement Scale	1	-0.02586	0.00962	-2.69	0.0083
	(JNM)val109+					
val118	BladCont Improvement Scale	1	-0.00802	0.01572	-0.51	0.6110
	(JNM)val118+					
val166	BUR Change (based on val46)	1	-0.16868	0.09285	-1.82	0.0720
	(VM) val166+					
K_2	(mean) x2	1	-0.13088	0.09844	-1.33	0.1864
K_4	(mean) x4	1	0.29434	0.07029	4.19	<.0001
K_7	(mean) x7	1	0.63438	0.42646	1.49	0.1397
K_8	(mean) x8	1	0.24305	0.19225	1.26	0.2088
K_9	(mean) x9	1	-0.06710	0.20368	-0.33	0.7425
K_12	(mean) x12	1	-0.69433	0.46771	-1.48	0.1405
val11	Facility Management contract	1	0.05845	0.03778	1.55	0.1246
	change (YH) VAL11-					

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(4) PAC-PAI0X2  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PPAIX2 ADJUSTED QI SCORE,PPAIX2

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	13	0.44617	0.03432	2.14	0.0150
Error	141	2.25797	0.01601		
Corrected Total	154	2.70414			

  

Root MSE	0.12655	R-Square	0.1650
Dependent Mean	0.27310	Adj R-Sq	0.0880
Coeff Var	46.33757		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.46047	0.04548	10.12	<.0001
AS10	10. cna attend care planning meeting?	1	-0.01042	0.02717	-0.38	0.7019
AS21B	21b. r\r progs-passive rantge of motion	1	-0.01630	0.03392	-0.48	0.6315
AS26GA	26ga. rev prog-behav funct-cna?	1	-0.01276	0.01578	-0.81	0.4201
AS39A	39a. which incl in cqi-dehydration	1	0.00113	0.02811	0.04	0.9679
AS39E	39e. which incl in cqi-behav function	1	-0.00927	0.02712	-0.34	0.7329
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000777	0.00000566	-1.37	0.1723
WAM1	1. rooms personalized	1	-0.00157	0.01382	-0.11	0.9097
WAM12	12. out of bed, not for nap or bedtime	1	-0.01823	0.01138	-1.60	0.1115
WAM9	9. homelike appearance in facility	1	0.00010976	0.01170	0.01	0.9925
val57	CNA Involved in Care Planning	1	-0.00912	0.01485	-0.61	0.5398

val80	(VM, JT) VAL57+ Frequency of Comprehensive Assessments (JT) VAL80+	1	-0.00519	0.00263	-1.97	0.0504
val109	ADLdec Improvement Scale (JNM)val109+	1	-0.00580	0.00933	-0.62	0.5356
val166	BUR Change (based on val46) (VM) val166+	1	-0.09563	0.08439	-1.13	0.2591

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(4) PAC-PAI0X2  
PREVENTIVE + RESPONSIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PPAIX2 ADJUSTED QI SCORE,PPAIX2

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	20	0.88909	0.04445	3.28	<.0001
Error	134	1.81505	0.01355		
Corrected Total	154	2.70414			

  

Root MSE	0.11638	R-Square	0.3288
Dependent Mean	0.27310	Adj R-Sq	0.2286
Coeff Var	42.61628		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.22829	0.06418	3.56	0.0005
AS10	10. cna attend care planning meeting?	1	-0.01506	0.02555	-0.59	0.5566
AS21B	21b. r\r progs-passive rantge of motion	1	0.01311	0.03208	0.41	0.6835
AS26GA	26ga. rev prog-behav funct-cna?	1	-0.02355	0.01507	-1.56	0.1204
AS39A	39a. which incl in cqi-dehydration	1	0.01162	0.02752	0.42	0.6735
AS39E	39e. which incl in cqi-behav function	1	-0.00297	0.02533	-0.12	0.9069
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000608	0.00000542	-1.12	0.2637
WAM1	1. rooms personalized	1	0.00204	0.01301	0.16	0.8755
WAM12	12. out of bed, not for nap or bedtime	1	-0.00705	0.01086	-0.65	0.5172
WAM9	9. homelike appearance in facility	1	-0.00507	0.01138	-0.45	0.6567
val57	CNA Involved in Care Planning	1	-0.00240	0.01408	-0.17	0.8647



val80	(VM, JT) VAL57+ Frequency of Comprehensive Assessments (JT) VAL80+	1	-0.00659	0.00260	-2.54	0.0122
val109	ADLdec Improvement Scale (JNM)val109+	1	-0.01303	0.00886	-1.47	0.1434
val166	BUR Change (based on val46) (VM) val166+	1	-0.12370	0.07930	-1.56	0.1212
K_2	(mean) x2	1	-0.12235	0.09300	-1.32	0.1905
K_4	(mean) x4	1	0.30092	0.06534	4.61	<.0001
K_7	(mean) x7	1	-0.06882	0.38610	-0.18	0.8588
K_8	(mean) x8	1	0.12978	0.17739	0.73	0.4657
K_9	(mean) x9	1	0.03897	0.18667	0.21	0.8349
K_12	(mean) x12	1	0.01920	0.43403	0.04	0.9648
val11	Facility Management contract change (YH) VAL11-	1	0.06024	0.03572	1.69	0.0940

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(5) PAC-PRU0X1  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: OL\_PPRUX1 RAW OBSERVED QI SCORE, PPRUX1

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	0.32266	0.02305	1.91	0.0304
Error	132	1.59154	0.01206		
Corrected Total	146	1.91419			

Root MSE	0.10980	R-Square	0.1686
Dependent Mean	0.25620	Adj R-Sq	0.0804
Coeff Var	42.85962		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.45131	0.05897	7.65	<.0001
AS18E	18e. pract-obs chg in eating, sleeping?	1	-0.03368	0.02763	-1.22	0.2250
AS26AA	26aa. rev prog-delirium-cna?	1	-0.02136	0.01330	-1.61	0.1105
AS27D	27d.1 daily repts-commun change	1	-0.03228	0.02072	-1.56	0.1216
AS39E	39e. which incl in cqi-behav function	1	0.01444	0.02593	0.56	0.5785
AS39F	39f. which incl in cqi-communic change	1	-0.00794	0.02690	-0.30	0.7683
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000397	0.00000485	-0.82	0.4145
WAM9	9. homelike appearance in facility	1	-0.01297	0.00852	-1.52	0.1303
val32	Incontinence Management (JNM) VAL32+	1	0.00180	0.00691	0.26	0.7954
val36	Focus on Incontinence (JNM) VAL36+	1	-0.00335	0.00789	-0.42	0.6723
val57	CNA Involved in Care Planning	1	-0.00606	0.00780	-0.78	0.4383

	(VM, JT) VAL57+					
val65	Record of MH Prof (RNJ) val65+	1	-0.00567	0.00412	-1.38	0.1714
val118	BladCont Improvement Scale	1	0.00198	0.01276	0.15	0.8772
	(JNM)val118+					
val148	COG Change (based on val46)	1	-0.22458	0.10873	-2.07	0.0408
	(VM) val148+					
val166	BUR Change (based on val46)	1	-0.06611	0.07507	-0.88	0.3801
	(VM) val166+					

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(5) PAC-PRU0X1  
PREVENTIVE + RESPONSIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: OL\_PPRUX1 RAW OBSERVED QI SCORE, PPRUX1

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	0.38645	0.02576	2.21	0.0089
Error	131	1.52774	0.01166		
Corrected Total	146	1.91419			

Root MSE	0.10799	R-Square	0.2019
Dependent Mean	0.25620	Adj R-Sq	0.1105
Coeff Var	42.15181		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.43169	0.05860	7.37	<.0001
AS18E	18e. pract-obs chg in eating, sleeping?	1	-0.03876	0.02726	-1.42	0.1574
AS26AA	26aa. rev prog-delirium-cna?	1	-0.01819	0.01315	-1.38	0.1689
AS27D	27d.1 daily repts-commun change	1	-0.03324	0.02038	-1.63	0.1053
AS39E	39e. which incl in cqi-behav function	1	0.01379	0.02550	0.54	0.5895
AS39F	39f. which incl in cqi-communic change	1	-0.00382	0.02652	-0.14	0.8858
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000491	0.00000479	-1.02	0.3074
WAM9	9. homelike appearance in facility	1	-0.00836	0.00861	-0.97	0.3332
val32	Incontinence Management (JNM) VAL32+	1	0.00138	0.00680	0.20	0.8398
val36	Focus on Incontinence (JNM) VAL36+	1	-0.00403	0.00777	-0.52	0.6051
val57	CNA Involved in Care Planning	1	-0.00408	0.00772	-0.53	0.5975

val65	(VM, JT) VAL57+					
val118	Record of MH Prof (RNJ) val65+	1	-0.00539	0.00405	-1.33	0.1858
	BladCont Improvement Scale	1	0.00555	0.01264	0.44	0.6616
	(JNM)val118+					
val148	COG Change (based on val46)	1	-0.27004	0.10869	-2.48	0.0142
	(VM) val148+					
val166	BUR Change (based on val46)	1	-0.06618	0.07383	-0.90	0.3717
	(VM) val166+					
S_2	(mean) x2	1	0.31319	0.13391	2.34	0.0209

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(6) PAC-PRUOX2  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PPRUX2 ADJUSTED QI SCORE,PPRUX2

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	18	0.43613	0.02423	2.04	0.0120
Error	128	1.52388	0.01191		
Corrected Total	146	1.96002			

  

Root MSE	0.10911	R-Square	0.2225
Dependent Mean	0.25356	Adj R-Sq	0.1132
Coeff Var	43.03192		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.44131	0.06699	6.59	<.0001
AS12A	12a. percent of families attending mtg	1	-0.01018	0.01017	-1.00	0.3188
AS18E	18e. pract-obs chg in eating, sleeping?	1	-0.03396	0.02980	-1.14	0.2566
AS26AA	26aa. rev prog-delirium-cna?	1	-0.02459	0.01358	-1.81	0.0725
AS39A	39a. which incl in cqi-dehydration	1	0.00199	0.02517	0.08	0.9370
AS39E	39e. which incl in cqi-behav function	1	0.00325	0.03054	0.11	0.9155
AS39F	39f. which incl in cqi-communic change	1	-0.01086	0.02741	-0.40	0.6927
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000728	0.00000495	-1.47	0.1439
WAM1	1. rooms personalized	1	0.01340	0.01140	1.17	0.2422
WAM12	12. out of bed, not for nap or bedtime	1	0.00231	0.00966	0.24	0.8117
WAM9	9. homelike appearance in facility	1	-0.02211	0.01077	-2.05	0.0421

val18	Behavioral Items (YH) VAL18+	1	0.00056250	0.00134	0.42	0.6749
val32	Incontinence Management (JNM) VAL32+	1	-0.00062114	0.00689	-0.09	0.9283
val36	Focus on Incontinence (JNM) VAL36+	1	-0.00549	0.00806	-0.68	0.4971
val39	CDCPI-Psychosocial (JNM) VAL39+	1	0.00109	0.00592	0.18	0.8543
val57	CNA Involved in Care Planning (VM, JT) VAL57+	1	-0.00587	0.00786	-0.75	0.4562
val65	Record of MH Prof (RNJ) val65+	1	-0.00791	0.00423	-1.87	0.0638
val118	BladCont Improvement Scale (JNM) val118+	1	-0.00054099	0.01331	-0.04	0.9677
val166	BUR Change (based on val46) (VM) val166+	1	-0.11167	0.07484	-1.49	0.1381

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(6) PAC-PRUOX2  
PREVENTIVE + RESPONSIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PPRUX2 ADJUSTED QI SCORE,PPRUX2

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	19	0.45774	0.02409	2.04	0.0107
Error	127	1.50227	0.01183		
Corrected Total	146	1.96002			

  

Root MSE	0.10876	R-Square	0.2335
Dependent Mean	0.25356	Adj R-Sq	0.1189
Coeff Var	42.89362		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.43373	0.06701	6.47	<.0001
AS12A	12a. percent of families attending mtg	1	-0.00949	0.01015	-0.93	0.3518
AS18E	18e. pract-obs chg in eating, sleeping?	1	-0.03647	0.02976	-1.23	0.2228
AS26AA	26aa. rev prog-delirium-cna?	1	-0.02228	0.01364	-1.63	0.1048
AS39A	39a. which incl in cqi-dehydration	1	0.00554	0.02523	0.22	0.8266
AS39E	39e. which incl in cqi-behav function	1	0.00350	0.03044	0.12	0.9086
AS39F	39f. which incl in cqi-communic change	1	-0.00792	0.02741	-0.29	0.7730
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000751	0.00000494	-1.52	0.1312
WAM1	1. rooms personalized	1	0.01218	0.01140	1.07	0.2875
WAM12	12. out of bed, not for nap or bedtime	1	0.00166	0.00965	0.17	0.8636
WAM9	9. homelike appearance in facility	1	-0.01777	0.01120	-1.59	0.1152



val18	Behavioral Items (YH) VAL18+	1	0.00041558	0.00134	0.31	0.7566
val32	Incontinence Management (JNM) VAL32+	1	-0.00098911	0.00687	-0.14	0.8858
val36	Focus on Incontinence (JNM) VAL36+	1	-0.00599	0.00805	-0.74	0.4578
val39	CDCPI-Psychosocial (JNM) VAL39+	1	-0.00009524	0.00597	-0.02	0.9873
val57	CNA Involved in Care Planning (VM, JT) VAL57+	1	-0.00505	0.00785	-0.64	0.5214
val65	Record of MH Prof (RNJ) val65+	1	-0.00744	0.00423	-1.76	0.0814
val118	BladCont Improvement Scale (JNM) val118+	1	0.00227	0.01343	0.17	0.8663
val166	BUR Change (based on val46) (VM) val166+	1	-0.11521	0.07464	-1.54	0.1252
S_2	(mean) x2	1	0.18458	0.13657	1.35	0.1789

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(7) PAC-PRUOX3  
PREVENTIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PPRUX3 ADJUSTED QI SCORE,PPRUX3

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	0.30799	0.03080	2.63	0.0057
Error	144	1.68523	0.01170		
Corrected Total	154	1.99323			

Root MSE	0.10818	R-Square	0.1545
Dependent Mean	0.25203	Adj R-Sq	0.0958
Coeff Var	42.92372		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.42072	0.05364	7.84	<.0001
AS18E	18e. pract-obs chg in eating, sleeping?	1	-0.03029	0.02633	-1.15	0.2520
AS26AA	26aa. rev prog-delirium-cna?	1	-0.02558	0.01270	-2.01	0.0459
AS27D	27d.1 daily repts-commun change	1	-0.02917	0.01958	-1.49	0.1385
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000574	0.00000434	-1.32	0.1883
WAM9	9. homelike appearance in facility	1	-0.01140	0.00803	-1.42	0.1580
val32	Incontinence Management (JNM) VAL32+	1	0.00303	0.00627	0.48	0.6297
val36	Focus on Incontinence (JNM) VAL36+	1	-0.00313	0.00734	-0.43	0.6700
val57	CNA Involved in Care Planning (VM, JT) VAL57+	1	-0.00877	0.00745	-1.18	0.2410
val118	BladCont Improvement Scale (JNM) val118+	1	-0.00347	0.01182	-0.29	0.7696
val148	COG Change (based on val46)	1	-0.21847	0.10138	-2.16	0.0328

(VM) val148+

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(7) PAC-PRU0X3  
PREVENTIVE + RESPONSIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PPRUX3 ADJUSTED QI SCORE,PPRUX3

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	0.36131	0.03285	2.88	0.0019
Error	143	1.63192	0.01141		
Corrected Total	154	1.99323			

  

Root MSE	0.10683	R-Square	0.1813
Dependent Mean	0.25203	Adj R-Sq	0.1183
Coeff Var	42.38678		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.40254	0.05363	7.51	<.0001
AS18E	18e. pract-obs chg in eating, sleeping?	1	-0.03483	0.02609	-1.34	0.1839
AS26AA	26aa. rev prog-delirium-cna?	1	-0.02293	0.01260	-1.82	0.0708
AS27D	27d.1 daily repts-commun change	1	-0.02966	0.01934	-1.53	0.1272
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000652	0.00000430	-1.52	0.1318
WAM9	9. homelike appearance in facility	1	-0.00714	0.00818	-0.87	0.3841
val32	Incontinence Management (JNM) VAL32+	1	0.00287	0.00619	0.46	0.6434
val36	Focus on Incontinence (JNM) VAL36+	1	-0.00347	0.00725	-0.48	0.6327
val57	CNA Involved in Care Planning (VM, JT) VAL57+	1	-0.00695	0.00740	-0.94	0.3493
val118	BladCont Improvement Scale (JNM) val118+	1	-0.00073939	0.01174	-0.06	0.9499
val148	COG Change (based on val46)	1	-0.26017	0.10195	-2.55	0.0118

S_2	(VM) val148+ (mean) x2	1	0.27778	0.12852	2.16	0.0323
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\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(8) PAC-ADL04  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PADL40 ADJUSTED QI SCORE,PADL40

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	1.40113	0.17514	5.20	<.0001
Error	145	4.87935	0.03365		
Corrected Total	153	6.28048			

  

Root MSE	0.18344	R-Square	0.2231
Dependent Mean	0.48799	Adj R-Sq	0.1802
Coeff Var	37.59088		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.03551	0.09606	0.37	0.7122
AS12A	12a. percent of families attending mtg	1	0.03023	0.01579	1.91	0.0576
AS18C	18c. pract-ask resid or fam-behav chg?	1	0.09124	0.04028	2.27	0.0250
val46	Change Response (CHNGRESP) (VM) VAL46+	1	0.10497	0.09743	1.08	0.2831
val52	RN+LPN FTE/BED (VM) VAL52+	1	0.01221	0.00584	2.09	0.0383
val81	% Res w/Tx Plans for Weight Loss (JT) VAL81+	1	-0.62435	0.55912	-1.12	0.2660
val160	WGT Change (based on val46) (VM) val160+	1	0.64847	0.31504	2.06	0.0413
val165	PRU Change (based on val46) (VM) val165+	1	-0.04594	0.11289	-0.41	0.6847
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	0.15762	0.09688	1.63	0.1059

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(9) PAC-ADL05  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PADL50 ADJUSTED QI SCORE,PADL50

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	0.74172	0.09272	3.73	0.0005
Error	146	3.62468	0.02483		
Corrected Total	154	4.36640			

Root MSE	0.15756	R-Square	0.1699
Dependent Mean	0.39124	Adj R-Sq	0.1244
Coeff Var	40.27276		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.18974	0.05177	3.67	0.0003
AS12A	12a. percent of families attending mtg	1	0.02735	0.01353	2.02	0.0450
val45	Pain Assessment (ASSESS) (VM) VAL45+	1	-0.02604	0.04087	-0.64	0.5251
val46	Change Response (CHNGRESP) (VM) VAL46+	1	0.01724	0.08369	0.21	0.8370
val52	RN+LPN FTE/BED (VM) VAL52+	1	0.01139	0.00527	2.16	0.0324
val81	% Res w/Tx Plans for Weight Loss (JT) VAL81+	1	-0.92619	0.47873	-1.93	0.0550
val160	WGT Change (based on val46) (VM) val160+	1	0.76145	0.27020	2.82	0.0055
val165	PRU Change (based on val46) (VM) val165+	1	0.01123	0.09642	0.12	0.9075
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	0.08981	0.08752	1.03	0.3065

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(9) PAC-ADL05  
PREVENTIVE + RESPONSIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PADL50 ADJUSTED QI SCORE,PADL50

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	0.77601	0.08622	3.48	0.0006
Error	145	3.59040	0.02476		
Corrected Total	154	4.36640			

  

Root MSE	0.15736	R-Square	0.1777
Dependent Mean	0.39124	Adj R-Sq	0.1267
Coeff Var	40.21982		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.19965	0.05238	3.81	0.0002
AS12A	12a. percent of families attending mtg	1	0.02544	0.01361	1.87	0.0636
val45	Pain Assessment (ASSESS) (VM) VAL45+	1	-0.02386	0.04086	-0.58	0.5601
val46	Change Response (CHNGRESP) (VM) VAL46+	1	0.01943	0.08360	0.23	0.8165
val52	RN+LPN FTE/BED (VM) VAL52+	1	0.01111	0.00527	2.11	0.0368
val81	% Res w/Tx Plans for Weight Loss (JT) VAL81+	1	-0.91318	0.47822	-1.91	0.0582
val160	WGT Change (based on val46) (VM) val160+	1	0.74907	0.27005	2.77	0.0063
val165	PRU Change (based on val46) (VM) val165+	1	0.00313	0.09654	0.03	0.9742
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	0.09073	0.08741	1.04	0.3010
val11	Facility Management contract change (YH) VAL11-	1	-0.05494	0.04669	-1.18	0.2413



\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(10) PAC-ADL06  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PADL60 ADJUSTED QI SCORE,PADL60

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	0.96334	0.10704	4.31	<.0001
Error	145	3.60370	0.02485		
Corrected Total	154	4.56704			

  

Root MSE	0.15765	R-Square	0.2109
Dependent Mean	0.29615	Adj R-Sq	0.1620
Coeff Var	53.23354		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	-0.18651	0.10725	-1.74	0.0842
AS18C	18c. pract-ask resid or fam-behav chg?	1	0.07335	0.05916	1.24	0.2170
val45	Pain Assessment (ASSESS) (VM) VAL45+	1	-0.00829	0.04128	-0.20	0.8411
val46	Change Response (CHNGRESP) (VM) VAL46+	1	0.02292	0.08434	0.27	0.7862
val52	RN+LPN FTE/BED (VM) VAL52+	1	0.01381	0.00525	2.63	0.0095
val81	% Res w/Tx Plans for Weight Loss (JT) VAL81+	1	-0.37893	0.48318	-0.78	0.4342
val88	Cognitive Behavioral Care Practices (PILOT) VAL88+	1	0.00224	0.01949	0.11	0.9086
val99	Training & Policy for Suspicious Skin (PILOT) VAL99+	1	0.01072	0.00635	1.69	0.0935
val160	WGT Change (based on val46) (VM) val160+	1	0.36692	0.27186	1.35	0.1792
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	0.18701	0.08742	2.14	0.0341

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(11) PAC-MOD04  
PREVENTIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: OL\_PMOD40 RAW OBSERVED QI SCORE, PMOD40

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.41189	0.20594	4.68	0.0106
Error	152	6.68188	0.04396		
Corrected Total	154	7.09377			

  

Root MSE	0.20967	R-Square	0.0581
Dependent Mean	0.67088	Adj R-Sq	0.0457
Coeff Var	31.25225		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.52780	0.05586	9.45	<.0001
val165	PRU Change (based on val46)	1	0.24480	0.11741	2.08	0.0387
val174	(VM) val165+ Match of Chart & Care Plan (PRU) VAL174+	1	0.14452	0.07426	1.95	0.0535

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(11) PAC-MOD04  
PREVENTIVE + RESPONSIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: OL\_PMOD40 RAW OBSERVED QI SCORE, PMOD40

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.56643	0.18881	4.37	0.0056
Error	151	6.52734	0.04323		
Corrected Total	154	7.09377			

  

Root MSE	0.20791	R-Square	0.0798
Dependent Mean	0.67088	Adj R-Sq	0.0616
Coeff Var	30.99085		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.59651	0.06625	9.00	<.0001
val165	PRU Change (based on val46)	1	0.23839	0.11648	2.05	0.0424
	(VM) val165+					
val174	Match of Chart & Care Plan	1	0.13486	0.07382	1.83	0.0697
	(PRU) VAL174+					
val55	Lic Staff turnover last 6mo	1	-0.01121	0.00593	-1.89	0.0606
	(%,Deciles) (VM) VAL55-					

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(12) PAC-CAT03  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PCAT30 ADJUSTED QI SCORE,PCAT30

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	0.40420	0.05053	5.35	<.0001
Error	125	1.18072	0.00945		
Corrected Total	133	1.58492			

  

Root MSE	0.09719	R-Square	0.2550
Dependent Mean	0.21298	Adj R-Sq	0.2074
Coeff Var	45.63223		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.07449	0.03068	2.43	0.0166
AS28BB3	28bb.3 weekly depression, anxiety	1	0.04764	0.02348	2.03	0.0446
AS34	34. restr-free directive in facility?	1	0.01806	0.01737	1.04	0.3003
val37	CDCPI-Incontinence (JNM) VAL37+	1	0.00898	0.00462	1.94	0.0545
val45	Pain Assessment (ASSESS) (VM) VAL45+	1	0.07243	0.03373	2.15	0.0337
val46	Change Response (CHNGRESP) (VM) VAL46+	1	0.01768	0.05546	0.32	0.7505
val52	RN+LPN FTE/BED (VM) VAL52+	1	0.00581	0.00356	1.63	0.1056
val80	Frequency of Comprehensive Assessments (JT) VAL80+	1	-0.00291	0.00233	-1.25	0.2144
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	0.05204	0.05945	0.88	0.3831

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(12) PAC-CAT03  
PREVENTIVE + RESPONSIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PCAT30 ADJUSTED QI SCORE,PCAT30

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	0.40789	0.04532	4.77	<.0001
Error	124	1.17703	0.00949		
Corrected Total	133	1.58492			

  

Root MSE	0.09743	R-Square	0.2574
Dependent Mean	0.21298	Adj R-Sq	0.2035
Coeff Var	45.74427		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.05627	0.04243	1.33	0.1872
AS28BB3	28bb.3 weekly depression, anxiety	1	0.04866	0.02360	2.06	0.0413
AS34	34. restr-free directive in facility?	1	0.01965	0.01759	1.12	0.2662
val37	CDCPI-Incontinence (JNM) VAL37+	1	0.00911	0.00464	1.96	0.0519
val45	Pain Assessment (ASSESS) (VM) VAL45+	1	0.07465	0.03400	2.20	0.0300
val46	Change Response (CHNGRESP) (VM) VAL46+	1	0.01802	0.05560	0.32	0.7464
val52	RN+LPN FTE/BED (VM) VAL52+	1	0.00647	0.00373	1.74	0.0850
val80	Frequency of Comprehensive Assessments (JT) VAL80+	1	-0.00293	0.00234	-1.25	0.2128
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	0.05253	0.05960	0.88	0.3798
val55	Lic Staff turnover last 6mo (%Deciles) (VM) VAL55-	1	0.00211	0.00338	0.62	0.5343

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(13) PAC-PAI02  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PPAI20 ADJUSTED QI SCORE,PPAI20

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	20	0.78757	0.03938	2.14	0.0060
Error	126	2.31925	0.01841		
Corrected Total	146	3.10682			

  

Root MSE	0.13567	R-Square	0.2535
Dependent Mean	0.46230	Adj R-Sq	0.1350
Coeff Var	29.34705		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.23313	0.08119	2.87	0.0048
AS10	10. cna attend care planning meeting?	1	-0.07738	0.04118	-1.88	0.0626
AS11A	11a. plan mtgs sched in cna work day	1	0.03103	0.01843	1.68	0.0947
AS12A	12a. percent of families attending mtg	1	0.01917	0.01263	1.52	0.1316
AS14CB	14cb. num residents in meal training	1	0.01852	0.01244	1.49	0.1390
AS18E	18e. pract-obs chg in eating, sleeping?	1	-0.00637	0.03704	-0.17	0.8638
AS26AA	26aa. rev prog-delirium-cna?	1	-0.00236	0.03021	-0.08	0.9379
AS26FA	26fa. rev prog-commun chg-cna?	1	0.01372	0.02787	0.49	0.6234
AS26GA	26ga. rev prog-behav funct-cna?	1	0.04893	0.03540	1.38	0.1694
AS26GB	26gb. rev prog-behav funct-rn,lpn\lvn?	1	-0.05972	0.03824	-1.56	0.1208
AS39A	39a. which incl in cqi-dehydration	1	0.03497	0.03267	1.07	0.2864

AS39E	39e. which incl in cqi-behav function	1	-0.01070	0.03769	-0.28	0.7769
AS39G	39g. which incl in cqi-bladder incontin	1	-0.01441	0.03471	-0.42	0.6788
AS5CA	5ca. na\cna hours worked in pay period	1	0.00000428	0.00000619	0.69	0.4913
cnarat2	CNAs to total LNs	1	0.01277	0.00643	1.99	0.0490
val6	Licensed Nurse Involved in Care Planning (JNM) VAL6+	1	-0.00931	0.01469	-0.63	0.5271
val18	Behavioral Items (YH) VAL18+	1	0.00050217	0.00175	0.29	0.7748
val32	Incontinence Management (JNM) VAL32+	1	0.00188	0.00663	0.28	0.7768
val57	CNA Involved in Care Planning (VM, JT) VAL57+	1	0.04926	0.02057	2.39	0.0181
val65	Record of MH Prof (RNJ) val65+	1	0.00759	0.00529	1.44	0.1534
val166	BUR Change (based on val46) (VM) val166+	1	0.02221	0.09842	0.23	0.8218

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(13) PAC-PAI02  
PREVENTIVE + RESPONSIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PPAI20 ADJUSTED QI SCORE,PPAI20

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	23	0.93881	0.04082	2.32	0.0017
Error	123	2.16801	0.01763		
Corrected Total	146	3.10682			

  

Root MSE	0.13276	R-Square	0.3022
Dependent Mean	0.46230	Adj R-Sq	0.1717
Coeff Var	28.71800		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.37920	0.09737	3.89	0.0002
AS10	10. cna attend care planning meeting?	1	-0.07258	0.04122	-1.76	0.0807
AS11A	11a. plan mtgs sched in cna work day	1	0.03275	0.01811	1.81	0.0729
AS12A	12a. percent of families attending mtg	1	0.01617	0.01255	1.29	0.2001
AS14CB	14cb. num residents in meal training	1	0.01631	0.01224	1.33	0.1851
AS18E	18e. pract-obs chg in eating, sleeping?	1	-0.00947	0.03633	-0.26	0.7947
AS26AA	26aa. rev prog-delirium-cna?	1	0.01134	0.03010	0.38	0.7070
AS26FA	26fa. rev prog-commun chg-cna?	1	0.00909	0.02764	0.33	0.7429
AS26GA	26ga. rev prog-behav funct-cna?	1	0.03785	0.03530	1.07	0.2858
AS26GB	26gb. rev prog-behav funct-rn,lpn\lvn?	1	-0.04935	0.03795	-1.30	0.1960
AS39A	39a. which incl in cqi-dehydration	1	0.03590	0.03264	1.10	0.2735



AS39E	39e. which incl in cqi-behav function	1	-0.01486	0.03694	-0.40	0.6882
AS39G	39g. which incl in cqi-bladder incontin	1	-0.01709	0.03411	-0.50	0.6174
AS5CA	5ca. na\cna hours worked in pay period	1	0.00000281	0.00000624	0.45	0.6532
cnarat2	CNAs to total LNs	1	0.01052	0.00639	1.65	0.1020
val6	Licensed Nurse Involved in Care Planning (JNM) VAL6+	1	-0.00784	0.01478	-0.53	0.5969
val18	Behavioral Items (YH) VAL18+	1	0.00046690	0.00171	0.27	0.7859
val32	Incontinence Management (JNM) VAL32+	1	0.00175	0.00654	0.27	0.7902
val57	CNA Involved in Care Planning (VM, JT) VAL57+	1	0.04440	0.02069	2.15	0.0338
val65	Record of MH Prof (RNJ) val65+	1	0.00348	0.00538	0.65	0.5187
val166	BUR Change (based on val46) (VM) val166+	1	0.03473	0.09677	0.36	0.7203
K_2	(mean) x2	1	0.08475	0.10338	0.82	0.4139
K_4	(mean) x4	1	-0.18968	0.07039	-2.69	0.0080
val11	Facility Management contract change (YH) VAL11-	1	-0.04263	0.04181	-1.02	0.3099

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(14) PAC-RSP02  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PRSP20 ADJUSTED QI SCORE, PRSP20

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	20	0.83288	0.04164	3.24	<.0001
Error	134	1.72001	0.01284		
Corrected Total	154	2.55289			

  

Root MSE	0.11330	R-Square	0.3262
Dependent Mean	0.82085	Adj R-Sq	0.2257
Coeff Var	13.80231		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.58102	0.07081	8.21	<.0001
AS10	10. cna attend care planning meeting?	1	-0.06648	0.03332	-2.00	0.0480
AS18E	18e. pract-obs chg in eating, sleeping?	1	0.04227	0.03008	1.41	0.1623
AS21D	21d. r\r prog-ambulation, gait train	1	-0.03281	0.03292	-1.00	0.3207
AS26GA	26ga. rev prog-behav funct-cna?	1	0.03794	0.01662	2.28	0.0240
AS26GB	26gb. rev prog-behav funct-rn,lpn\lvn?	1	-0.02441	0.02922	-0.84	0.4049
AS39A	39a. which incl in cqi-dehydration	1	0.05348	0.02648	2.02	0.0455
AS39E	39e. which incl in cqi-behav function	1	-0.00364	0.03170	-0.11	0.9087
AS39F	39f. which incl in cqi-communic change	1	0.00281	0.03006	0.09	0.9255
AS39G	39g. which incl in cqi-bladder incont	1	-0.01103	0.02943	-0.37	0.7085

AS5CA	5ca. na\cna hours worked in pay period	1	0.00000747	0.00000516	1.45	0.1500
AS9D	9d. r\r aides contrib to pat care plan	1	0.01036	0.01008	1.03	0.3062
cnarat2	CNAs to total LNs	1	0.01424	0.00515	2.76	0.0065
WAM1	1. rooms personalized	1	0.00558	0.00884	0.63	0.5292
val6	Licensed Nurse Involved in Care Planning (JNM) VAL6+	1	-0.00946	0.01208	-0.78	0.4350
val18	Behavioral Items (YH) VAL18+	1	0.00080914	0.00142	0.57	0.5707
val32	Incontinence Management (JNM) VAL32+	1	-0.00614	0.00535	-1.15	0.2533
val57	CNA Involved in Care Planning (VM, JT) VAL57+	1	0.05200	0.01809	2.87	0.0047
val75	Physical Restraints (JA) VAL75+	1	0.00190	0.02726	0.07	0.9447
val159	NUT Change (based on val46) (VM) val159+	1	0.33103	0.17282	1.92	0.0576
val166	BUR Change (based on val46) (VM) val166+	1	0.04055	0.08275	0.49	0.6249

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(15 PAC-BAL01  
PREVENTIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PBAL10 ADJUSTED QI SCORE,PBAL10

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	0.52837	0.08806	4.00	0.0011
Error	127	2.79400	0.02200		
Corrected Total	133	3.32237			

  

Root MSE	0.14832	R-Square	0.1590
Dependent Mean	0.25559	Adj R-Sq	0.1193
Coeff Var	58.03222		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.11080	0.04499	2.46	0.0151
AS28BB3	28bb.3 weekly depression, anxiety	1	0.03263	0.03500	0.93	0.3531
val46	Change Response (CHNGRESP) (VM) VAL46+	1	0.03066	0.08428	0.36	0.7166
val52	RN+LPN FTE/BED (VM) VAL52+	1	0.00972	0.00504	1.93	0.0558
val81	% Res w/Tx Plans for Weight Loss (JT) VAL81+	1	-0.85039	0.48203	-1.76	0.0801
val160	WGT Change (based on val46) (VM) val160+	1	0.66766	0.27062	2.47	0.0150
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	0.08062	0.08321	0.97	0.3345

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(16) PAC-ROM01  
PREVENTIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PROM10 ADJUSTED QI SCORE,PROM10

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	0.21752	0.05438	2.91	0.0236
Error	150	2.80441	0.01870		
Corrected Total	154	3.02193			

  

Root MSE	0.13673	R-Square	0.0720
Dependent Mean	0.49783	Adj R-Sq	0.0472
Coeff Var	27.46601		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.40866	0.03925	10.41	<.0001
AS10	10. cna attend care planning meeting?	1	0.02906	0.02561	1.13	0.2582
val57	CNA Involved in Care Planning (VM, JT) VAL57+	1	0.00527	0.01446	0.36	0.7161
val148	COG Change (based on val46) (VM) val148+	1	0.20088	0.12871	1.56	0.1207
val174	Match of Chart & Care Plan (PRU) VAL174+	1	0.07758	0.04985	1.56	0.1218

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(17) PAC-ADL0X1  
PREVENTIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PADLX1 ADJUSTED QI SCORE,PADLX1

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	1.35176	0.15020	5.20	<.0001
Error	145	4.19106	0.02890		
Corrected Total	154	5.54282			

Root MSE	0.17001	R-Square	0.2439
Dependent Mean	0.63073	Adj R-Sq	0.1969
Coeff Var	26.95460		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	1.06936	0.09553	11.19	<.0001
AS18C	18c. pract-ask resid or fam-behav chg?	1	-0.08266	0.06375	-1.30	0.1968
val45	Pain Assessment (ASSESS) (VM) VAL45+	1	0.02696	0.04431	0.61	0.5439
val46	Change Response (CHNGRESP) (VM) VAL46+	1	-0.08574	0.09152	-0.94	0.3504
val52	RN+LPN FTE/BED (VM) VAL52+	1	-0.01410	0.00566	-2.49	0.0139
val81	% Res w/Tx Plans for Weight Loss (JT) VAL81+	1	0.57042	0.51688	1.10	0.2716
val88	Cognitive Behavioral Care Practices (PILOT) VAL88+	1	-0.00389	0.02096	-0.19	0.8532
val160	WGT Change (based on val46) (VM) val160+	1	-0.56086	0.29142	-1.92	0.0562
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	-0.21949	0.09806	-2.24	0.0267
val174	Match of Chart & Care Plan (PRU) VAL174+	1	-0.03271	0.06465	-0.51	0.6137

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(18) PAC-ADL0X2  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PADLX2 ADJUSTED QI SCORE,PADLX2

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	1.02280	0.12785	4.56	<.0001
Error	146	4.09325	0.02804		
Corrected Total	154	5.11605			

  

Root MSE	0.16744	R-Square	0.1999
Dependent Mean	0.63786	Adj R-Sq	0.1561
Coeff Var	26.25009		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	1.00947	0.08845	11.41	<.0001
AS18C	18c. pract-ask resid or fam-behav chg?	1	-0.08130	0.06268	-1.30	0.1967
val45	Pain Assessment (ASSESS) (VM) VAL45+	1	0.04849	0.04364	1.11	0.2683
val46	Change Response (CHNGRESP) (VM) VAL46+	1	-0.05032	0.08899	-0.57	0.5726
val52	RN+LPN FTE/BED (VM) VAL52+	1	-0.01235	0.00557	-2.22	0.0281
val81	% Res w/Tx Plans for Weight Loss (JT) VAL81+	1	0.70899	0.50854	1.39	0.1654
val88	Cognitive Behavioral Care Practices (PILOT) VAL88+	1	-0.00366	0.02061	-0.18	0.8594
val160	WGT Change (based on val46) (VM) val160+	1	-0.65396	0.28502	-2.29	0.0232
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	-0.19668	0.09241	-2.13	0.0350

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(19) PAC-CNT0X1  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: OL\_PCNTX1 RAW OBSERVED QI SCORE, PCNTX1

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	0.58911	0.09819	5.81	<.0001
Error	147	2.48375	0.01690		
Corrected Total	153	3.07287			

  

Root MSE	0.12999	R-Square	0.1917
Dependent Mean	0.56395	Adj R-Sq	0.1587
Coeff Var	23.04902		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.76198	0.03813	19.99	<.0001
AS27D	27d.1 daily repts-commun change	1	-0.05670	0.02133	-2.66	0.0087
AS34	34. restr-free directive in facility?	1	-0.03810	0.02169	-1.76	0.0810
val45	Pain Assessment (ASSESS) (VM) VAL45+	1	0.00391	0.03351	0.12	0.9074
val46	Change Response (CHNGRESP) (VM) VAL46+	1	0.01672	0.06741	0.25	0.8044
val52	RN+LPN FTE/BED (VM) VAL52+	1	-0.01010	0.00442	-2.29	0.0236
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	-0.15884	0.07194	-2.21	0.0288



\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(19) PAC-CNT0X1  
PREVENTIVE + RESPONSIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: OL\_PCNTX1 RAW OBSERVED QI SCORE, PCNTX1

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	0.65650	0.09379	5.67	<.0001
Error	146	2.41636	0.01655		
Corrected Total	153	3.07287			

  

Root MSE	0.12865	R-Square	0.2136
Dependent Mean	0.56395	Adj R-Sq	0.1759
Coeff Var	22.81192		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.64068	0.07098	9.03	<.0001
AS27D	27d.1 daily repts-commun change	1	-0.05366	0.02117	-2.54	0.0123
AS34	34. restr-free directive in facility?	1	-0.02849	0.02199	-1.30	0.1971
val45	Pain Assessment (ASSESS) (VM) VAL45+	1	0.01841	0.03394	0.54	0.5882
val46	Change Response (CHNGRESP) (VM) VAL46+	1	0.01791	0.06672	0.27	0.7888
val52	RN+LPN FTE/BED (VM) VAL52+	1	-0.00792	0.00450	-1.76	0.0806
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	-0.11905	0.07388	-1.61	0.1093
P_4	(mean) x4	1	0.12012	0.05953	2.02	0.0454

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(20) PAC-CNT0X2  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PCNTX2 ADJUSTED QI SCORE,PCNTX2

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	0.49231	0.07033	4.56	0.0001
Error	146	2.25149	0.01542		
Corrected Total	153	2.74380			

  

Root MSE	0.12418	R-Square	0.1794
Dependent Mean	0.55605	Adj R-Sq	0.1401
Coeff Var	22.33288		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.71329	0.04969	14.35	<.0001
AS27B	27b.1 daily repts-behav function	1	0.00992	0.03223	0.31	0.7587
AS27D	27d.1 daily repts-commun change	1	-0.05577	0.03306	-1.69	0.0937
val2	Monitor Change in Function/Cognitive Care (JNM) VAL2+	1	-0.00116	0.00374	-0.31	0.7561
val45	Pain Assessment (ASSESS) (VM) VAL45+	1	-0.01486	0.03960	-0.38	0.7080
val52	RN+LPN FTE/BED (VM) VAL52+	1	-0.01480	0.00413	-3.58	0.0005
val80	Frequency of Comprehensive Assessments (JT) VAL80+	1	-0.00079386	0.00256	-0.31	0.7571
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	-0.03502	0.06373	-0.55	0.5835

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(20) PAC-CNT0X2  
PREVENTIVE + RESPONSIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PCNTX2 ADJUSTED QI SCORE,PCNTX2

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	0.50762	0.06345	4.11	0.0002
Error	145	2.23618	0.01542		
Corrected Total	153	2.74380			

  

Root MSE	0.12418	R-Square	0.1850
Dependent Mean	0.55605	Adj R-Sq	0.1400
Coeff Var	22.33343		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.66113	0.07218	9.16	<.0001
AS27B	27b.1 daily repts-behav function	1	0.00776	0.03231	0.24	0.8105
AS27D	27d.1 daily repts-commun change	1	-0.05163	0.03332	-1.55	0.1234
val2	Monitor Change in Function/Cognitive Care (JNM) VAL2+	1	-0.00144	0.00375	-0.38	0.7019
val45	Pain Assessment (ASSESS) (VM) VAL45+	1	-0.00602	0.04058	-0.15	0.8823
val52	RN+LPN FTE/BED (VM) VAL52+	1	-0.01356	0.00432	-3.14	0.0020
val80	Frequency of Comprehensive Assessments (JT) VAL80+	1	-0.00102	0.00257	-0.40	0.6911
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	-0.01667	0.06634	-0.25	0.8020
P_4	(mean) x4	1	0.05651	0.05672	1.00	0.3207

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(21) PAC-RSPOX1  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PRSPX1 ADJUSTED QI SCORE, PRSPX1

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	17	0.59575	0.03504	3.11	0.0001
Error	137	1.54190	0.01125		
Corrected Total	154	2.13764			

Root MSE	0.10609	R-Square	0.2787
Dependent Mean	0.24418	Adj R-Sq	0.1892
Coeff Var	43.44763		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.46408	0.06137	7.56	<.0001
AS10	10. cna attend care planning meeting?	1	0.00976	0.02771	0.35	0.7252
AS11A	11a. plan mtgs sched in cna work day	1	-0.00575	0.01607	-0.36	0.7209
AS12A	12a. percent of families attending mtg	1	-0.01130	0.00935	-1.21	0.2289
AS18E	18e. pract-obs chg in eating, sleeping?	1	-0.04602	0.02804	-1.64	0.1031
AS26GA	26ga. rev prog-behav funct-cna?	1	-0.03483	0.01529	-2.28	0.0243
AS26GB	26gb. rev prog-behav funct-rn,lpn\lvn?	1	0.01354	0.02724	0.50	0.6198
AS39A	39a. which incl in cqi-dehydration	1	-0.03625	0.02437	-1.49	0.1392
AS39G	39g. which incl in cqi-bladder incontn	1	0.01430	0.02369	0.60	0.5470
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000981	0.00000481	-2.04	0.0431

AS9D	9d. r\r aides contrib to pat care plan	1	-0.00216	0.01090	-0.20	0.8433
WAM1	1. rooms personalized	1	0.00082997	0.00945	0.09	0.9301
WAM12	12. out of bed, not for nap or bedtime	1	-0.00682	0.00905	-0.75	0.4520
val18	Behavioral Items (YH) VAL18+	1	0.00072957	0.00112	0.65	0.5174
val57	CNA Involved in Care Planning (VM, JT) VAL57+	1	-0.01808	0.01320	-1.37	0.1732
val75	Physical Restraints (JA) VAL75+	1	0.01765	0.02447	0.72	0.4719
val159	NUT Change (based on val46) (VM) val159+	1	-0.35210	0.16166	-2.18	0.0311
val166	BUR Change (based on val46) (VM) val166+	1	-0.14340	0.07257	-1.98	0.0502

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(21) PAC-RSP0X1  
PREVENTIVE + RESPONSIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PRSPX1 ADJUSTED QI SCORE, PRSPX1

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	19	0.67179	0.03536	3.26	<.0001
Error	135	1.46585	0.01086		
Corrected Total	154	2.13764			

Root MSE	0.10420	R-Square	0.3143
Dependent Mean	0.24418	Adj R-Sq	0.2178
Coeff Var	42.67529		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.44766	0.06501	6.89	<.0001
AS10	10. cna attend care planning meeting?	1	0.01146	0.02722	0.42	0.6745
AS11A	11a. plan mtgs sched in cna work day	1	-0.00449	0.01581	-0.28	0.7769
AS12A	12a. percent of families attending mtg	1	-0.01313	0.00921	-1.43	0.1561
AS18E	18e. pract-obs chg in eating, sleeping?	1	-0.04174	0.02761	-1.51	0.1329
AS26GA	26ga. rev prog-behav funct-cna?	1	-0.03370	0.01516	-2.22	0.0278
AS26GB	26gb. rev prog-behav funct-rn,lpn\lvn?	1	0.01151	0.02694	0.43	0.6698
AS39A	39a. which incl in cqi-dehydration	1	-0.02753	0.02423	-1.14	0.2579
AS39G	39g. which incl in cqi-bladder incontn	1	0.01152	0.02367	0.49	0.6272
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00001014	0.00000474	-2.14	0.0343

AS9D	9d. r\r aides contrib to pat care plan	1	-0.00125	0.01072	-0.12	0.9076
WAM1	1. rooms personalized	1	-0.00142	0.00956	-0.15	0.8824
WAM12	12. out of bed, not for nap or bedtime	1	-0.00560	0.00897	-0.62	0.5334
val18	Behavioral Items (YH) VAL18+	1	0.00058090	0.00111	0.52	0.6006
val57	CNA Involved in Care Planning (VM, JT) VAL57+	1	-0.01946	0.01301	-1.50	0.1369
val75	Physical Restraints (JA) VAL75+	1	0.01457	0.02409	0.60	0.5462
val159	NUT Change (based on val46) (VM) val159+	1	-0.41509	0.16058	-2.59	0.0108
val166	BUR Change (based on val46) (VM) val166+	1	-0.18670	0.07318	-2.55	0.0118
R_2	(mean) x2	1	-0.06437	0.06927	-0.93	0.3544
R_8	(mean) x8	1	0.24195	0.09511	2.54	0.0121

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(22) PAC-RSP0X2  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PRSPX2 ADJUSTED QI SCORE, PRSPX2

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	0.26159	0.04360	3.91	0.0012
Error	148	1.64864	0.01114		
Corrected Total	154	1.91023			

  

Root MSE	0.10554	R-Square	0.1369
Dependent Mean	0.23393	Adj R-Sq	0.1020
Coeff Var	45.11691		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.38261	0.04633	8.26	<.0001
AS18E	18e. pract-obs chg in eating, sleeping?	1	-0.04039	0.02469	-1.64	0.1040
AS26GA	26ga. rev prog-behav funct-cna?	1	-0.02141	0.01254	-1.71	0.0900
AS5CA	5ca. na\cna hours worked in pay period	1	-0.00000290	0.00000409	-0.71	0.4798
val57	CNA Involved in Care Planning (VM, JT) VAL57+	1	-0.01290	0.00695	-1.86	0.0654
val159	NUT Change (based on val46) (VM) val159+	1	-0.38508	0.15328	-2.51	0.0131
val166	BUR Change (based on val46) (VM) val166+	1	-0.07997	0.06618	-1.21	0.2289



\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(23) PAC-WALOX1  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: OL\_PWALX1 RAW OBSERVED QI SCORE, PWALX1

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	0.65843	0.09406	5.24	<.0001
Error	145	2.60082	0.01794		
Corrected Total	152	3.25925			

  

Root MSE	0.13393	R-Square	0.2020
Dependent Mean	0.30032	Adj R-Sq	0.1635
Coeff Var	44.59556		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.07408	0.04423	1.67	0.0961
AS12A	12a. percent of families attending mtg	1	0.02697	0.01154	2.34	0.0208
val45	Pain Assessment (ASSESS) (VM) VAL45+	1	0.02523	0.03496	0.72	0.4717
val46	Change Response (CHNGRESP) (VM) VAL46+	1	0.03296	0.07125	0.46	0.6444
val52	RN+LPN FTE/BED (VM) VAL52+	1	0.00701	0.00451	1.56	0.1221
val81	% Res w/Tx Plans for Weight Loss (JT) VAL81+	1	-0.36206	0.40958	-0.88	0.3782
val160	WGT Change (based on val46) (VM) val160+	1	0.35177	0.22955	1.53	0.1276
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	0.14911	0.07447	2.00	0.0471

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(24) PAC-WALOX2  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PWALX2 ADJUSTED QI SCORE,PWALX2

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	0.46394	0.05155	2.99	0.0027
Error	143	2.46620	0.01725		
Corrected Total	152	2.93014			

  

Root MSE	0.13132	R-Square	0.1583
Dependent Mean	0.29378	Adj R-Sq	0.1054
Coeff Var	44.70238		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.11329	0.04369	2.59	0.0105
AS12A	12a. percent of families attending mtg	1	0.02708	0.01136	2.38	0.0184
val45	Pain Assessment (ASSESS) (VM) VAL45+	1	0.03718	0.04225	0.88	0.3804
val46	Change Response (CHNGRESP) (VM) VAL46+	1	0.01135	0.07063	0.16	0.8726
val52	RN+LPN FTE/BED (VM) VAL52+	1	0.00702	0.00442	1.59	0.1144
val80	Frequency of Comprehensive Assessments (JT) VAL80+	1	-0.00094763	0.00282	-0.34	0.7377
val81	% Res w/Tx Plans for Weight Loss (JT) VAL81+	1	-0.29516	0.40837	-0.72	0.4710
val160	WGT Change (based on val46) (VM) val160+	1	0.30383	0.22800	1.33	0.1848
val165	PRU Change (based on val46) (VM) val165+	1	0.03818	0.08109	0.47	0.6385
val168	Match of K2 & Care Plan (MATCHPLAN) (VM) VAL168+	1	0.06915	0.07433	0.93	0.3538

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(25) PAC-WAL02  
PREVENTIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: AJ\_PWAL20 ADJUSTED QI SCORE,PWAL20

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.16087	0.05362	2.61	0.0539
Error	151	3.10651	0.02057		
Corrected Total	154	3.26738			

  

Root MSE	0.14343	R-Square	0.0492
Dependent Mean	0.27782	Adj R-Sq	0.0303
Coeff Var	51.62747		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.24331	0.01889	12.88	<.0001
val81	% Res w/Tx Plans for Weight Loss (JT) VAL81+	1	-0.51152	0.43720	-1.17	0.2439
val148	COG Change (based on val46) (VM) val148+	1	0.18295	0.13816	1.32	0.1874
val160	WGT Change (based on val46) (VM) val160+	1	0.42385	0.24023	1.76	0.0797

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

**(26) PAC-CNT04  
PREVENTIVE MODEL**

The REG Procedure

Model: MODEL1

Dependent Variable: OL\_PCNT40 RAW OBSERVED QI SCORE, PCNT40

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.02244	0.02244	2.80	0.0960
Error	160	1.28023	0.00800		
Corrected Total	161	1.30266			

  

Root MSE	0.08945	R-Square	0.0172
Dependent Mean	0.23109	Adj R-Sq	0.0111
Coeff Var	38.70837		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.24396	0.01041	23.43	<.0001
AS34	34. restr-free directive in facility?	1	-0.02364	0.01412	-1.67	0.0960

\*\* Validation of PAC Candidate QMs for ALL Facilities \*\*

(26) PAC-CNT04  
PREVENTIVE + RESPONSIVE MODEL

The REG Procedure

Model: MODEL1

Dependent Variable: OL\_PCNT40 RAW OBSERVED QI SCORE, PCNT40

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	0.04699	0.01175	1.47	0.2142
Error	157	1.25567	0.00800		
Corrected Total	161	1.30266			

  

Root MSE	0.08943	R-Square	0.0361
Dependent Mean	0.23109	Adj R-Sq	0.0115
Coeff Var	38.69992		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	0.22236	0.01615	13.77	<.0001
AS34	34. restr-free directive in facility?	1	-0.02205	0.01429	-1.54	0.1247
R_7	(mean) x7	1	0.05856	0.26912	0.22	0.8280
R_9	(mean) x9	1	0.03278	0.10759	0.30	0.7610
R_12	(mean) x12	1	0.01384	0.28834	0.05	0.9618