Appendix J:

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Models:

1. Limited- PDD only
2. Intermediate- PDD + Vitals + Labs (if available)
3. Full- PDD + Vitals + Additional Clinical Measures + Labs (if available)

Appendix Table J-1: Regression Validation: Inpatient Death

Table J-1: Regression Validation: Inpatient Death												
Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Age in Years at Admission	1.03	1.01	1.06	0.00	1.04	1.01	1.07	0.01	1.03	1.00	1.07	0.04
Male	0.86	0.51	1.45	0.57	0.99	0.53	1.83	0.97	1.36	0.66	2.78	0.41
Hispanic	0.72	0.29	1.78	0.47	0.73	0.25	2.12	0.57	0.37	0.10	1.37	0.14
Black	0.73	0.28	1.90	0.52	0.97	0.34	2.77	0.96	1.06	0.32	3.50	0.92
Asian	0.86	0.33	2.28	0.77	0.81	0.26	2.49	0.72	0.58	0.15	2.20	0.42
Other Race	2.00	0.64	6.20	0.23	1.78	0.39	8.08	0.45	0.87	0.14	5.45	0.89
Source of Admission--Nursing Home	1.28	0.46	3.54	0.64	1.46	0.43	4.87	0.54	1.70	0.43	6.65	0.45
Total Parenteral Nutrition (TPN)	11.79	0.83	168.18	0.07	7.22	0.26	200.04	0.24	15.46	0.55	434.19	0.11
Cardiac Arrest					17.23	4.76	62.40	0.00	11.50	2.71	48.84	0.00
Aphasia					0.50	0.17	1.45	0.20	0.20	0.06	0.69	0.01
Dysathria					0.37	0.15	0.95	0.04	0.32	0.11	0.94	0.04
Dysphasia					0.58	0.10	3.29	0.54	0.66	0.10	4.36	0.67
Facial Palsy					0.71	0.23	2.17	0.54	0.63	0.17	2.31	0.49
Hemiplegia					0.44	0.11	1.84	0.26	0.31	0.06	1.60	0.16
Other Paralysis					1.29	0.11	15.60	0.84	0.52	0.02	11.08	0.67
Hemineglect					1.40	0.12	16.19	0.79	2.38	0.19	29.90	0.50
Decreased Consciousness					5.79	1.90	17.63	0.00	1.27	0.31	5.13	0.74
Seizure or Seizure Disorder					0.44	0.11	1.73	0.24	0.10	0.02	0.57	0.01
Any Post Stroke Disability					2.59	0.27	24.48	0.41	4.19	0.25	69.00	0.32
Other Cerebral Ischemic Signs or Symptoms					0.32	0.02	4.97	0.42	0.24	0.01	4.03	0.32
Paralysis	1.49	0.89	2.48	0.13	2.86	0.68	12.14	0.15	2.59	0.50	13.38	0.26
Other Neurological Disorders	1.85	1.08	3.18	0.03	2.18	0.79	6.05	0.13	4.46	1.35	14.78	0.01
Depression	1.30	0.59	2.89	0.52	0.91	0.33	2.53	0.86	0.97	0.31	3.06	0.96
Diabetes without Chronic Complications	2.14	1.23	3.71	0.01	2.21	1.16	4.20	0.02	2.17	1.03	4.57	0.04
Diabetes with Chronic Complications	0.87	0.24	3.23	0.84	0.70	0.17	2.90	0.63	0.76	0.15	3.72	0.73

Appendix Table J-1: Regression Validation: Inpatient Death

Table J-1: Regression Validation: Inpatient Death												
Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Admission Glucose	1.13	0.19	6.67	0.90	0.34	0.02	4.77	0.42	0.19	0.01	4.14	0.29
Acute MI	1.71	0.33	8.75	0.52	2.27	0.37	13.95	0.38	1.53	0.20	11.91	0.68
Left Sided Valvular Heart Disease	1.92	0.18	20.21	0.59	0.65	0.01	32.07	0.83	0.47	0.00	1249.44	0.85
Atrial Fibrillation	1.25	0.71	2.22	0.44	0.96	0.48	1.91	0.91	0.93	0.44	1.97	0.86
History of Congestive Heart Failure	1.14	0.61	2.16	0.68	1.61	0.75	3.44	0.22	2.27	0.97	5.30	0.06
Any Ischemic Heart Disease	0.69	0.37	1.28	0.24	0.63	0.30	1.30	0.21	0.72	0.31	1.66	0.44
Hyperlipidemia	0.75	0.44	1.28	0.30	0.97	0.52	1.79	0.91	1.28	0.62	2.62	0.50
Dementia or Alzheimer's Disease	0.35	0.11	1.05	0.06	0.23	0.06	0.96	0.04	0.20	0.04	1.04	0.06
Bleeding Disorders (excluding platelet disorders)	1.93	0.29	12.96	0.50	1.17	0.08	17.23	0.91	3.00	0.13	67.54	0.49
Anticoagulation	1.38	0.50	3.78	0.53	2.39	0.73	7.82	0.15	1.51	0.41	5.57	0.54
Valvular Disease	2.79	1.12	6.95	0.03	4.38	1.52	12.60	0.01	3.78	1.12	12.70	0.03
Pulmonary Circulation Disease	0.89	0.15	5.11	0.90	0.81	0.10	6.71	0.85	0.65	0.08	5.62	0.70
Peripheral Vascular Disease	0.55	0.17	1.82	0.33	0.53	0.14	1.93	0.34	0.44	0.10	2.03	0.30
Chronic Pulmonary Disease	2.82	1.51	5.24	0.00	3.55	1.66	7.58	0.00	3.26	1.38	7.73	0.01
Hypothyroidism	0.70	0.34	1.45	0.34	0.66	0.28	1.56	0.35	0.61	0.24	1.54	0.29
Renal Failure	1.07	0.50	2.28	0.87	0.82	0.33	2.08	0.68	0.62	0.21	1.79	0.38
Liver Disease	8.45	1.02	70.30	0.05	5.41	0.36	81.56	0.22	7.32	0.40	133.32	0.18
Lymphoma	2.03	0.13	31.15	0.61	2.01	0.07	55.07	0.68	3.24	0.06	162.27	0.56
Metastatic Cancer	2.00	0.50	7.98	0.33	2.22	0.46	10.80	0.32	3.12	0.57	17.22	0.19
Solid tumor without Metastasis	0.44	0.05	3.81	0.46	0.45	0.05	4.55	0.50	0.16	0.01	4.22	0.27
Rheumatoid Arthritis	0.36	0.04	3.02	0.34	0.40	0.04	3.78	0.42	0.24	0.01	3.89	0.31
Obesity	2.14	0.82	5.59	0.12	1.47	0.40	5.44	0.57	1.86	0.45	7.63	0.39
Weight Loss	1.51	0.38	6.01	0.56	1.73	0.35	8.60	0.50	0.91	0.16	5.09	0.92
Fluid and Electrolyte Disorders	0.99	0.48	2.02	0.97	0.87	0.36	2.06	0.74	0.89	0.32	2.43	0.82
Chronic Blood Loss Anemia	2.03	0.12	33.53	0.62	0.65	0.01	34.96	0.83	1.95	0.05	73.04	0.72

Appendix Table J-1: Regression Validation: Inpatient Death

Table J-1: Regression Validation: Inpatient Death												
Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Deficiency Anemias	1.75	0.91	3.35	0.09	1.95	0.93	4.08	0.08	2.47	1.09	5.58	0.03
Psychoses	1.80	0.39	8.35	0.46	3.70	0.75	18.33	0.11	3.72	0.62	22.33	0.15
Hypertension	0.83	0.47	1.45	0.51	0.78	0.41	1.50	0.46	0.56	0.25	1.21	0.14
Alcohol Abuse	0.32	0.04	2.48	0.28	0.22	0.02	3.09	0.26	0.34	0.02	4.98	0.43
Drug Abuse	5.36	1.23	23.29	0.03	5.28	0.85	32.80	0.07	5.35	0.65	44.20	0.12
Current Smoker	0.77	0.31	1.90	0.58	0.72	0.26	1.98	0.53	1.09	0.35	3.38	0.88
Recurrent Stroke					0.60	0.22	1.62	0.31	0.70	0.22	2.25	0.55
Former TIA					0.42	0.10	1.78	0.24	0.40	0.08	1.96	0.26
Resolved TIA					1.26	0.03	50.10	0.90	2.12	0.05	98.01	0.70
Falls	0.75	0.21	2.67	0.66								
Non-English Speaking	0.99	0.96	1.04	0.80	1.00	0.95	1.05	0.94	1.00	0.94	1.05	0.95
<200% Poverty	1.01	0.99	1.03	0.33	1.00	0.98	1.03	0.72	1.01	0.98	1.04	0.61
Rural	0.49	0.12	2.08	0.34	0.44	0.08	2.42	0.34	0.36	0.05	2.31	0.28
Distance to High Volume Hospital	1.02	1.00	1.04	0.05	1.03	1.00	1.05	0.03	1.02	1.00	1.05	0.11
Distance to Medium Volume Hospital	0.96	0.92	1.00	0.05	0.96	0.92	1.01	0.09	0.96	0.91	1.02	0.19
Distance to Low Volume Hospital	1.00	0.97	1.04	0.98	0.98	0.94	1.02	0.32	0.96	0.91	1.01	0.09
Temperature					1.06	0.82	1.38	0.66	0.99	0.74	1.33	0.94
Heart Rate					1.02	1.00	1.03	0.04	1.01	0.99	1.03	0.30
Respiratory Rate					1.07	1.00	1.13	0.04	1.08	1.01	1.16	0.03
Systolic Blood Pressure					1.01	0.99	1.02	0.32	1.01	0.99	1.02	0.36
Diastolic Blood Pressure					0.98	0.97	1.00	0.11	0.98	0.96	1.00	0.07
Oxygen Saturation Level					0.97	0.89	1.06	0.53	0.97	0.88	1.08	0.61
NIHSS									1.15	1.11	1.19	0.00
	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS			
.	Number of Obs		966		Number of Obs		865		Number of Obs		865	

Appendix Table J-1: Regression Validation: Inpatient Death

Table J-1: Regression Validation: Inpatient Death									
Variables	**PDD Only**			**PDD + Vitals**			**PDD + Vitals + NIHSS**		
	OR	**95% CI**	**P>|z|**	**OR**	**95% CI**	**P>|z|**	**OR**	**95% CI**	**P>|z|**
	LRchi2(51)	108.06		LRchi2(51)	165.1		LRchi2(51)	242.43	
	Prob > chi2	0		Prob > chi2	0		Prob > chi2	0	
	Pseudo R2	0.1765		Pseudo R2	0.293		Pseudo R2	0.4294	

Appendix Table J-2: Regression Validation: Inpatient Death (Restricted to Observations with Lab Results)

Table J-2: Inpatient Death--Restricted to Observations with Lab Results																
Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + Labs + Stroke Severity			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Age in Years at Admission	1.04	1.00	1.08	0.04	1.04	1.00	1.08	0.07	1.03	0.98	1.08	0.22	1.03	0.97	1.09	0.32
Male	1.10	0.50	2.43	0.82	1.06	0.46	2.45	0.88	1.66	0.62	4.45	0.32	0.77	0.22	2.64	0.68
Hispanic	0.67	0.15	2.98	0.60	0.60	0.12	3.08	0.54	0.48	0.08	3.03	0.44	0.56	0.05	5.96	0.63
Black	0.85	0.21	3.46	0.83	0.79	0.18	3.46	0.75	0.64	0.12	3.40	0.60	1.61	0.21	12.37	0.65
Asian	0.40	0.09	1.89	0.25	0.47	0.10	2.21	0.34	0.42	0.07	2.48	0.34	0.15	0.01	1.63	0.12
Other	0.83	0.08	9.10	0.88	1.02	0.09	11.92	0.99	0.30	0.01	7.24	0.46	0.35	0.01	13.11	0.57
Source of Admission--Nursing Home	1.60	0.36	7.22	0.54	1.38	0.24	7.84	0.72	1.63	0.24	10.93	0.62	0.29	0.02	4.70	0.38
Total Parenteral Nutrition (TPN)	11.15	0.23	538.53	0.22	8.07	0.14	449.77	0.31	24.46	0.30	2010.95	0.16	33.02	0.33	3341.64	0.14
Cardiac Arrest	21.56	4.48	103.67	0.00	27.15	5.08	145.21	0.00	43.67	6.07	314.28	0.00	103.32	9.28	1150.61	0.00
Aphasia	0.40	0.09	1.69	0.21	0.42	0.09	2.03	0.28	0.44	0.07	2.62	0.36	0.20	0.02	2.53	0.21
Dysathria	0.19	0.05	0.79	0.02	0.29	0.07	1.26	0.10	0.45	0.10	2.09	0.31	0.67	0.11	3.94	0.65
Dysphagia	0.72	0.08	6.20	0.77	0.55	0.06	5.49	0.61	0.56	0.04	7.51	0.66	0.56	0.04	8.89	0.68
Facial Palsy	0.77	0.16	3.79	0.75	0.27	0.03	2.37	0.24	0.26	0.02	3.70	0.32	0.20	0.01	3.98	0.30
Hemiplegia	0.89	0.19	4.21	0.88	1.11	0.23	5.47	0.89	0.64	0.11	3.88	0.63	1.78	0.21	14.74	0.59
Other Paralysis	5.42	0.26	113.13	0.28	9.86	0.42	229.13	0.15	2.55	0.04	146.57	0.65	1.90	0.01	292.59	0.80
Hemineglect	1.97	0.09	45.28	0.67	1.39	0.04	47.94	0.86	1.18	0.02	57.79	0.94	0.44	0.00	103.58	0.77
Decreased Consciousness	7.85	1.90	32.34	0.00	6.03	1.31	27.73	0.02	1.20	0.19	7.55	0.84	1.12	0.14	8.90	0.92
Seizure or Seizure Disorder	0.27	0.04	2.07	0.21	0.30	0.03	2.83	0.29	0.06	0.00	0.94	0.05	0.06	0.00	2.11	0.12
Any Post Stroke Disability	3.12	0.21	46.13	0.41	3.30	0.17	63.65	0.43	10.86	0.50	234.10	0.13	0.34	0.00	44,910.87	0.86
Other Cerebral Ischemic Signs or Symptoms	0.32	0.01	8.19	0.49	0.52	0.02	15.22	0.71	0.18	0.00	10.38	0.41	0.10	0.00	67.57	0.49
Paralysis	0.86	0.17	4.44	0.85	0.67	0.12	3.60	0.64	0.47	0.07	3.23	0.45	0.18	0.02	1.93	0.16
Other Neurological Disorders	2.38	0.66	8.56	0.19	1.79	0.43	7.35	0.42	1.57	0.30	8.18	0.59	1.45	0.16	12.97	0.74

Appendix Table J-2: Regression Validation: Inpatient Death (Restricted to Observations with Lab Results)

Table J-2: Inpatient Death--Restricted to Observations with Lab Results

Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + Labs + Stroke Severity			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Depression	0.95	0.27	3.36	0.94	0.96	0.27	3.43	0.94	0.99	0.23	4.26	0.99	0.91	0.14	5.75	0.92
Diabetes Mellitus	2.53	1.09	5.88	0.03	2.25	0.92	5.55	0.08	1.75	0.62	4.88	0.29	1.28	0.33	4.87	0.72
Diabetes Mellitus with Complications	1.24	0.20	7.55	0.82	0.98	0.16	6.19	0.98	0.57	0.07	4.80	0.61	0.04	0.00	5.23	0.19
Acute Myocardial Infarction	3.52	0.27	45.37	0.33	2.39	0.16	35.32	0.53	2.61	0.10	65.32	0.56	0.44	0.01	26.28	0.69
Left Sided Valvular Heart Disease	2.79	0.07	118.10	0.59	3.68	0.07	200.77	0.52	5.02	0.02	1377.21	0.57	2.39	0.00	4005.61	0.82
Atrial Fibrillation	2.15	0.84	5.47	0.11	1.95	0.71	5.34	0.20	2.10	0.67	6.61	0.21	2.21	0.54	9.01	0.27
History of CHF	1.06	0.36	3.08	0.92	1.39	0.43	4.47	0.58	1.41	0.36	5.51	0.62	1.22	0.22	6.67	0.82
Any Ischemic Heart Disease	1.13	0.45	2.87	0.79	0.87	0.32	2.36	0.79	0.94	0.30	2.92	0.92	1.74	0.41	7.44	0.46
Hyperlipidemia	0.92	0.40	2.12	0.85	1.05	0.42	2.62	0.91	1.59	0.55	4.64	0.39	1.67	0.45	6.14	0.44
Dementia or Alzheimer's Disease	0.82	0.16	4.06	0.80	0.75	0.13	4.39	0.75	1.01	0.12	8.40	0.99	1.39	0.09	20.58	0.81
Anticoagulation	1.06	0.21	5.40	0.94	1.31	0.24	7.08	0.75	1.19	0.17	8.13	0.86	0.86	0.07	11.01	0.91
Valvular Disease	0.81	0.10	6.36	0.84	0.94	0.09	9.98	0.96	0.86	0.05	13.62	0.91	2.14	0.11	40.67	0.61
Pulmonary Circulation Disease	2.78	0.25	30.47	0.40	4.27	0.31	58.15	0.28	2.73	0.13	58.62	0.52	2.50	0.09	67.32	0.58
Peripheral Vascular Disease	0.60	0.14	2.58	0.49	0.73	0.16	3.32	0.68	0.66	0.11	3.79	0.64	0.65	0.09	4.83	0.67
Chronic Pulmonary Disease	4.44	1.56	12.60	0.01	3.66	1.19	11.33	0.02	2.16	0.60	7.83	0.24	2.11	0.41	10.92	0.37
Hypothyroidism	0.40	0.13	1.28	0.12	0.46	0.14	1.51	0.20	0.40	0.11	1.49	0.17	0.19	0.03	1.10	0.06
Renal Failure	0.91	0.29	2.83	0.87	0.91	0.27	3.00	0.88	0.53	0.13	2.08	0.36	1.43	0.22	9.39	0.71
Liver Disease	1.18	0.02	89.10	0.94	2.07	0.02	183.25	0.75	1.26	0.00	584.68	0.94	3.77	0.00	11,0603.59	0.75
Lymphoma	4.60	0.08	250.43	0.46	4.88	0.03	728.48	0.54	12.91	0.04	4187.45	0.39	3.70	0.01	1371.23	0.67
Metastatic Cancer	4.17	0.45	38.97	0.21	3.82	0.35	41.86	0.27	3.99	0.25	63.73	0.33	10.98	0.31	393.94	0.19

Appendix Table J-2: Regression Validation: Inpatient Death (Restricted to Observations with Lab Results)

Table J-2: Inpatient Death--Restricted to Observations with Lab Results																
Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + Labs + Stroke Severity			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Rheumatoid Arthritis	0.41	0.03	5.11	0.49	0.42	0.03	5.41	0.51	0.16	0.01	4.94	0.30	0.04	0.00	2.87	0.14
Obesity	1.62	0.35	7.44	0.53	1.28	0.23	7.27	0.78	2.25	0.35	14.26	0.39	3.37	0.36	31.76	0.29
Weight Loss	1.69	0.19	15.20	0.64	2.00	0.20	20.32	0.56	1.03	0.06	16.35	0.99	0.46	0.01	19.93	0.68
Fluid and Electrolyte Disorders	1.16	0.39	3.42	0.80	1.00	0.31	3.16	1.00	0.98	0.26	3.70	0.98	1.14	0.21	6.29	0.88
Chronic Blood Loss Anemia	0.30	0.00	109.00	0.69	0.48	0.00	64.06	0.77	0.83	0.01	54.82	0.93				
Deficiency Anemias	2.37	0.87	6.47	0.09	2.55	0.88	7.44	0.09	5.68	1.63	19.80	0.01	15.02	2.25	100.33	0.01
Psychoses	4.32	0.59	31.78	0.15	6.59	0.82	53.07	0.08	12.11	1.17	125.94	0.04	100.66	3.83	2648.28	0.01
Hypertension	0.55	0.24	1.26	0.16	0.62	0.24	1.58	0.32	0.66	0.22	2.02	0.47	0.50	0.11	2.30	0.37
Drug Abuse	13.22	1.09	160.14	0.04	9.28	0.61	140.98	0.11	16.66	0.90	308.74	0.06	20.77	0.69	622.30	0.08
Current Smoker	0.77	0.20	2.99	0.71	0.71	0.17	2.92	0.64	0.65	0.13	3.40	0.61	1.39	0.21	9.14	0.74
Recurrent Stroke	0.83	0.23	3.01	0.78	1.13	0.29	4.35	0.86	1.15	0.21	6.17	0.87	7.86	1.15	53.81	0.04
Former TIA	1.03	0.21	5.00	0.97	0.60	0.08	4.41	0.62	0.48	0.05	4.87	0.54	0.05	0.00	1.67	0.09
Non-English Speaking	0.98	0.91	1.05	0.56	0.97	0.91	1.04	0.40	0.96	0.89	1.04	0.38	0.97	0.88	1.06	0.47
<200% Poverty	1.02	0.98	1.06	0.25	1.03	0.99	1.07	0.10	1.04	0.99	1.08	0.08	1.05	1.00	1.10	0.06
Rural	1.40	0.19	10.18	0.74	1.42	0.17	11.92	0.75	3.22	0.28	36.81	0.35	4.38	0.24	79.31	0.32
Distance to High Volume Hospital	1.03	0.99	1.06	0.12	1.03	1.00	1.07	0.06	1.04	1.00	1.08	0.07	1.04	0.99	1.09	0.10
Distance to Medium Volume Hospital	0.95	0.89	1.01	0.12	0.95	0.88	1.01	0.11	0.93	0.86	1.01	0.08	0.91	0.83	1.00	0.04
Distance to Low Volume Hospital	0.99	0.94	1.05	0.82	0.98	0.93	1.04	0.57	0.94	0.87	1.01	0.12	0.92	0.84	1.01	0.07
Temperature					1.10	0.74	1.64	0.62	1.11	0.71	1.74	0.63	1.12	0.66	1.89	0.68
Heart Rate					1.02	1.00	1.05	0.02	1.03	1.00	1.05	0.03	1.04	1.00	1.07	0.04
Respiratory Rate					1.07	0.98	1.16	0.12	1.04	0.93	1.17	0.48	1.02	0.87	1.19	0.84

Appendix Table J-2: Regression Validation: Inpatient Death (Restricted to Observations with Lab Results)

Table J-2: Inpatient Death--Restricted to Observations with Lab Results

Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + Labs + Stroke Severity			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Systolic Blood Pressure					1.01	0.99	1.03	0.34	1.01	0.99	1.03	0.21	1.01	0.99	1.04	0.29
Diastolic Blood Pressure					0.99	0.96	1.02	0.34	0.98	0.95	1.01	0.28	0.97	0.93	1.01	0.14
Oxygen Saturation Level					0.99	0.86	1.14	0.91	0.98	0.84	1.14	0.76	0.88	0.72	1.07	0.19
Hematocrit													1.15	1.00	1.33	0.06
WBC count													1.25	1.10	1.42	0.00
Platelet Count													1.00	0.99	1.00	0.27
First Serum Ceratinine													0.42	0.14	1.23	0.11
Serum Blood Urea Nitrogen													1.04	0.98	1.10	0.17
Serum Sodium													0.92	0.85	1.00	0.05
Blood Glucose													1.00	0.99	1.01	0.76
NIHSS									1.16	1.10	1.23	0.00	1.20	1.11	1.29	0.00
	PDD Only				**PDD + Vitals**				**PDD + Vitals + NIHSS**				**PDD + Vitals + Labs + Stroke Severity**			
	Number of Obs	527			Number of Obs	512			Number of Obs	512			Number of Obs	491		
	LRchi2(51)	110.32			LRchi2(51)	112.92			LRchi2(51)	150.53			LRchi2(51)	169.54		
	Prob > chi2	0.0001			Prob > chi2	0.0003			Prob > chi2	0			Prob > chi2	0		
	Pseudo R2	0.3128			Pseudo R2	0.3357			Pseudo R2	0.4475			Pseudo R2	0.5393		

Appendix Table J-3: Regression Validation: 30-Day Death

Table J-3: 30-Day Death																
Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Age in Years at Admission	1.05	1.03	1.07	0.00	1.05	1.03	1.07	0.00	1.05	1.03	1.07	0.00	1.04	1.01	1.07	0.00
Male	0.64	0.42	0.97	0.03	0.62	0.40	0.96	0.03	0.69	0.44	1.10	0.12	0.48	0.26	0.89	0.02
Hispanic	1.19	0.58	2.43	0.63	1.00	0.47	2.12	1.00	0.85	0.37	1.93	0.70	1.17	0.43	3.21	0.76
Black	1.01	0.46	2.22	0.98	0.95	0.42	2.12	0.90	1.14	0.48	2.71	0.77	0.89	0.27	2.97	0.85
Asian	1.22	0.56	2.64	0.62	1.24	0.56	2.74	0.60	1.17	0.50	2.75	0.72	1.44	0.47	4.39	0.52
Other Race	0.34	0.07	1.52	0.16	0.28	0.05	1.39	0.12	0.10	0.01	0.68	0.02				
Source of Admission--Nursing Home	2.03	0.98	4.23	0.06	2.17	1.00	4.68	0.05	2.06	0.93	4.56	0.07	1.57	0.62	3.96	0.34
Total Parenteral Nutrition (TPN)	5.59	0.24	131.86	0.29	5.42	0.24	120.95	0.29	12.96	0.48	352.74	0.13				
Cardiac Arrest	8.46	2.88	24.87	0.00	13.29	4.16	42.43	0.00	10.43	3.16	34.38	0.00	5.28	0.82	34.09	0.08
Aphasia	1.12	0.58	2.19	0.73	1.16	0.58	2.34	0.67	1.05	0.50	2.24	0.89	1.44	0.57	3.64	0.44
Dysathria	0.93	0.55	1.58	0.79	1.03	0.60	1.78	0.91	1.04	0.59	1.85	0.89	1.57	0.77	3.22	0.21
Dysphasia	0.31	0.08	1.21	0.09	0.17	0.03	0.84	0.03	0.18	0.04	0.83	0.03	0.22	0.02	2.36	0.21
Facial Palsy	0.66	0.32	1.33	0.24	0.57	0.27	1.20	0.14	0.52	0.23	1.14	0.10	0.39	0.14	1.12	0.08
Hemiplegia	0.88	0.41	1.91	0.75	0.81	0.35	1.89	0.63	0.57	0.23	1.40	0.22	0.57	0.20	1.63	0.30
Other Paralysis	1.42	0.24	8.23	0.70	1.26	0.21	7.50	0.80	0.79	0.11	5.56	0.82	0.82	0.06	11.23	0.88
Hemineglect	1.07	0.13	8.65	0.95	0.94	0.10	9.03	0.96	1.29	0.15	11.10	0.82	1.04	0.05	23.88	0.98
Ataxia	0.23	0.07	0.82	0.02	0.16	0.03	0.71	0.02	0.29	0.06	1.33	0.11	0.36	0.07	1.83	0.22
Decreased Consciousness	5.18	2.02	13.29	0.00	4.15	1.54	11.18	0.01	1.61	0.53	4.90	0.40	1.29	0.28	5.88	0.74
Seizure or Seizure Disorder	1.11	0.48	2.57	0.81	1.03	0.42	2.49	0.96	0.66	0.25	1.77	0.41	1.13	0.37	3.51	0.83
Any Post Stroke Disability	0.70	0.11	4.29	0.70	0.70	0.11	4.66	0.72	0.69	0.09	5.24	0.72				
Other Cerebral Ischemic Signs or Symptoms	0.39	0.04	3.63	0.41	0.46	0.05	4.47	0.50	0.23	0.02	2.60	0.23	0.33	0.01	11.26	0.54
Paralysis	2.39	1.08	5.26	0.03	2.70	1.14	6.39	0.02	2.80	1.13	6.93	0.03	2.08	0.74	5.82	0.17
Other Neurological Disorders	1.32	0.67	2.58	0.42	1.36	0.67	2.76	0.39	1.24	0.58	2.65	0.58	0.98	0.39	2.48	0.97

Appendix Table J-3: Regression Validation: 30-Day Death

Table J-3: 30-Day Death																
Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Depression	1.46	0.80	2.67	0.22	1.39	0.74	2.61	0.31	1.38	0.71	2.66	0.34	1.23	0.53	2.85	0.63
Diabetes without Chronic Complications	1.25	0.78	2.02	0.36	1.26	0.77	2.06	0.37	1.11	0.66	1.89	0.69	0.76	0.36	1.59	0.47
Diabetes with Chronic Complications	1.79	0.78	4.15	0.17	1.74	0.73	4.14	0.21	2.06	0.84	5.04	0.11	1.29	0.41	4.08	0.67
Admission Glucose	3.01	0.84	10.87	0.09	2.25	0.57	8.84	0.25	2.28	0.55	9.40	0.25	1.93	0.38	9.94	0.43
Acute MI	1.76	0.49	6.26	0.38	1.92	0.53	6.95	0.32	1.28	0.33	4.99	0.72	1.11	0.20	6.10	0.91
Left Sided Valvular Heart Disease	0.06	0.00	1.42	0.08	0.12	0.00	3.90	0.23	0.09	0.00	9.11	0.31				
Atrial Fibrillation	1.22	0.77	1.94	0.39	1.14	0.70	1.87	0.59	1.05	0.63	1.75	0.86	0.79	0.40	1.56	0.50
History of Congestive Heart Failure	1.17	0.69	1.97	0.57	1.25	0.72	2.17	0.44	1.40	0.78	2.50	0.26	0.78	0.35	1.75	0.55
Any Ischemic Heart Disease	1.15	0.72	1.84	0.57	1.09	0.66	1.79	0.74	1.23	0.73	2.08	0.43	1.23	0.62	2.42	0.56
Hyperlipidemia	0.65	0.42	0.99	0.04	0.68	0.44	1.05	0.09	0.71	0.45	1.13	0.16	0.60	0.33	1.10	0.10
Dementia or Alzheimer's Disease	1.20	0.56	2.55	0.64	1.14	0.52	2.48	0.75	1.46	0.65	3.27	0.36	1.81	0.71	4.64	0.22
Bleeding Disorders (excluding platelet disorders)	1.18	0.17	8.30	0.87	1.32	0.17	10.20	0.79	2.07	0.27	15.82	0.48	2.73	0.04	169.98	0.63
Anticoagulation	1.44	0.61	3.40	0.40	1.63	0.68	3.91	0.28	1.22	0.49	3.04	0.68	0.97	0.25	3.68	0.96
Valvular Disease	2.04	0.96	4.36	0.06	1.82	0.80	4.15	0.16	1.60	0.66	3.90	0.30	1.12	0.34	3.72	0.86
Pulmonary Circulation Disease	0.64	0.14	2.98	0.57	0.72	0.15	3.46	0.68	0.67	0.14	3.18	0.61	0.42	0.04	4.87	0.49
Peripheral Vascular Disease	0.89	0.41	1.92	0.76	0.91	0.41	2.04	0.82	0.89	0.38	2.10	0.79	1.54	0.58	4.10	0.39
Chronic Pulmonary Disease	2.16	1.21	3.85	0.01	1.78	0.96	3.30	0.07	1.43	0.74	2.76	0.29	1.13	0.42	3.05	0.80
Hypothyroidism	0.71	0.41	1.24	0.23	0.76	0.43	1.37	0.36	0.75	0.41	1.37	0.35	0.61	0.27	1.40	0.25
Renal Failure	0.62	0.32	1.22	0.16	0.70	0.35	1.39	0.31	0.60	0.30	1.22	0.16	0.96	0.39	2.33	0.92
Liver Disease	13.15	1.60	108.30	0.02	13.78	1.50	126.52	0.02	14.01	1.45	135.28	0.02	7.68	0.19	302.57	0.28
Lymphoma	2.23	0.23	21.99	0.49	2.41	0.21	27.68	0.48	2.62	0.20	34.90	0.47	2.51	0.03	250.57	0.70

Appendix Table J-3: Regression Validation: 30-Day Death

Table J-3: 30-Day Death																
Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Metastatic Cancer	3.04	0.88	10.53	0.08	3.46	0.92	12.97	0.07	3.65	0.90	14.73	0.07	0.50	0.02	10.38	0.65
Solid tumor without Metastasis	0.77	0.21	2.84	0.70	1.00	0.27	3.65	1.00	0.73	0.18	3.03	0.67	1.34	0.27	6.76	0.72
Rheumatoid Arthritis	0.40	0.10	1.59	0.19	0.35	0.08	1.48	0.15	0.36	0.08	1.55	0.17	0.40	0.07	2.40	0.32
Obesity	1.96	0.84	4.57	0.12	1.73	0.69	4.34	0.24	1.89	0.71	5.01	0.20	1.47	0.35	6.28	0.60
Weight Loss	2.57	0.77	8.63	0.13	2.40	0.67	8.57	0.18	1.61	0.41	6.27	0.49	1.12	0.13	9.52	0.92
Fluid and Electrolyte Disorders	1.25	0.71	2.20	0.44	1.08	0.60	1.96	0.80	1.13	0.61	2.10	0.70	1.92	0.87	4.25	0.11
Chronic Blood Loss Anemia	1.42	0.13	15.80	0.77	1.25	0.11	14.12	0.86	1.72	0.16	18.09	0.65	1.97	0.13	31.13	0.63
Deficiency Anemias	1.16	0.66	2.04	0.59	1.24	0.69	2.23	0.47	1.27	0.69	2.33	0.44	0.85	0.34	2.10	0.72
Psychoses	2.38	0.73	7.71	0.15	3.42	1.03	11.38	0.05	3.17	0.92	10.86	0.07	2.35	0.37	14.97	0.37
Hypertension	0.88	0.57	1.37	0.57	0.85	0.54	1.36	0.50	0.75	0.46	1.23	0.26	0.73	0.39	1.35	0.31
Alcohol Abuse	0.22	0.03	1.60	0.14	0.23	0.03	1.81	0.16	0.29	0.04	2.21	0.23	0.14	0.00	3.92	0.25
Drug Abuse	4.75	1.01	22.25	0.05	4.05	0.84	19.61	0.08	4.19	0.77	22.71	0.10				
Current Smoker	0.65	0.32	1.31	0.23	0.69	0.33	1.41	0.31	0.80	0.37	1.69	0.55	1.14	0.44	2.93	0.78
Recurrent Stroke	0.83	0.43	1.59	0.57	0.85	0.43	1.68	0.65	0.99	0.49	2.00	0.97	1.21	0.49	2.96	0.68
Former TIA	0.64	0.26	1.59	0.34	0.62	0.23	1.64	0.33	0.58	0.21	1.60	0.29	0.79	0.22	2.88	0.72
Resolved TIA	0.83	0.04	17.55	0.90	0.76	0.03	16.91	0.86	1.00	0.05	21.12	1.00				
Non-English Speaking	0.98	0.94	1.01	0.17	0.98	0.94	1.01	0.24	0.97	0.94	1.01	0.14	1.00	0.95	1.05	0.90
<200% Poverty	1.00	0.98	1.02	0.92	1.00	0.98	1.02	0.90	1.00	0.98	1.02	0.84	0.99	0.96	1.02	0.39
Rural	1.57	0.60	4.16	0.36	1.59	0.58	4.31	0.37	1.65	0.58	4.70	0.35	2.25	0.68	7.45	0.18
Distance to High Volume Hospital	0.99	0.97	1.01	0.35	0.99	0.97	1.01	0.38	0.99	0.97	1.01	0.18	0.99	0.97	1.01	0.39
Distance to Medium Volume Hospital	1.01	0.99	1.05	0.34	1.02	0.99	1.05	0.18	1.02	0.99	1.06	0.14	1.04	1.00	1.08	0.08
Distance to Low Volume Hospital	1.00	0.97	1.02	0.88	0.99	0.96	1.02	0.55	0.99	0.96	1.02	0.38	0.99	0.96	1.03	0.74
Temperature					1.12	0.93	1.36	0.22	1.11	0.91	1.35	0.29	1.06	0.81	1.37	0.68
Heart Rate					1.01	1.00	1.02	0.19	1.00	0.99	1.01	0.56	1.00	0.99	1.02	0.65

Appendix Table J-3: Regression Validation: 30-Day Death

Table J-3: 30-Day Death

Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Respiratory Rate					1.03	0.98	1.08	0.25	1.02	0.97	1.08	0.47	1.02	0.94	1.10	0.69
Systolic Blood Pressure					1.00	0.99	1.01	0.51	1.00	0.99	1.01	0.68	1.01	0.99	1.02	0.32
Diastolic Blood Pressure					1.00	0.99	1.02	0.60	1.00	0.99	1.02	0.58	0.99	0.98	1.01	0.55
Oxygen Saturation Level					0.97	0.91	1.04	0.45	0.98	0.91	1.05	0.55	0.93	0.85	1.01	0.10
NIHSS									1.10	1.07	1.13	0.00	1.07	1.03	1.11	0.00
Systolic Blood Pressure at Discharge													1.00	0.98	1.01	0.56
Diastolic Blood Pressure at Discharge													1.02	0.99	1.05	0.12
Ambulatory													0.28	0.15	0.53	0.00
	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status			
	Number of Obs		946		Number of Obs		923		Number of Obs		923		Number of Obs		725	
	LRchi2(51)		226.55		LRchi2(51)		234.28		LRchi2(51)		291.93		LRchi2(51)		163.09	
	Prob > chi2		0		Prob > chi2		0		Prob > chi2		0		Prob > chi2		0	
	Pseudo R2		0.2387		Pseudo R2		0.2556		Pseudo R2		0.3185		Pseudo R2		0.2858	

Appendix Table J-4: Regression Validation: 30-Day Death (Restricted to Observations with Lab Results)

Table J-4: Regression Validation: 30-Day Death (Restricted to Observations with Lab Results)

Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + Labs + Stroke Severity				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Age in Years at Admission	1.06	1.03	1.08	0.00	1.06	1.03	1.09	0.00	1.06	1.03	1.09	0.00	1.07	1.03	1.10	0.00	1.06	1.02	1.10	0.00
Male	0.68	0.40	1.17	0.16	0.63	0.35	1.10	0.11	0.69	0.38	1.25	0.22	0.70	0.35	1.41	0.32	0.47	0.20	1.09	0.08
Hispanic	1.28	0.50	3.28	0.61	1.01	0.36	2.82	0.99	0.82	0.27	2.52	0.73	0.96	0.29	3.15	0.94	0.76	0.17	3.36	0.71
Black	1.28	0.48	3.39	0.62	1.08	0.39	2.97	0.89	1.11	0.38	3.21	0.85	1.66	0.51	5.37	0.40	0.81	0.18	3.57	0.78
Asian	1.28	0.51	3.22	0.60	1.35	0.52	3.51	0.53	1.37	0.51	3.68	0.53	1.65	0.58	4.73	0.35	1.54	0.41	5.76	0.52
Other	0.58	0.06	5.93	0.65	0.40	0.03	4.65	0.46	0.20	0.01	3.06	0.25	0.33	0.02	5.27	0.43				
Source of Admission--Nursing Home	2.06	0.81	5.26	0.13	2.04	0.75	5.56	0.16	2.01	0.71	5.73	0.19	1.33	0.42	4.25	0.63	1.82	0.48	6.82	0.38
Total Parenteral Nutrition (TPN)	4.88	0.19	125.20	0.34	5.23	0.19	140.52	0.32	9.88	0.33	299.59	0.19	7.86	0.23	271.18	0.25				
Cardiac Arrest	5.28	1.42	19.71	0.01	10.65	2.58	43.91	0.00	12.17	2.83	52.31	0.00	16.14	3.34	78.06	0.00	2.30	0.18	29.41	0.52
Aphasia	0.80	0.33	1.92	0.61	0.98	0.39	2.45	0.97	1.03	0.40	2.64	0.95	1.09	0.39	3.05	0.88	1.43	0.39	5.29	0.59
Dysathria	0.78	0.39	1.57	0.49	0.95	0.46	1.98	0.90	0.96	0.45	2.02	0.91	1.20	0.54	2.64	0.66	1.47	0.56	3.90	0.44
Dysphagia	0.32	0.07	1.49	0.15	0.15	0.02	0.98	0.05	0.17	0.03	0.99	0.05	0.14	0.02	0.99	0.05	0.54	0.04	6.77	0.64
Facial Palsy	0.33	0.11	0.95	0.04	0.27	0.08	0.84	0.02	0.23	0.07	0.77	0.02	0.21	0.06	0.75	0.02	0.20	0.04	1.04	0.06
Hemiplegia	1.00	0.38	2.67	0.99	0.96	0.34	2.75	0.95	0.70	0.24	2.06	0.51	0.70	0.22	2.22	0.54	0.40	0.10	1.60	0.20
Other Paralysis	3.37	0.42	27.28	0.25	4.24	0.50	35.69	0.18	2.81	0.27	28.78	0.39	2.41	0.21	28.26	0.48	1.79	0.08	40.30	0.71
Hemineglect	1.37	0.12	15.14	0.80	1.38	0.10	19.19	0.81	1.46	0.11	20.24	0.78	1.47	0.09	23.26	0.78	3.32	0.03	328.80	0.61
Ataxia	0.45	0.12	1.61	0.22	0.32	0.07	1.48	0.15	0.49	0.10	2.29	0.36	0.66	0.13	3.24	0.61	0.95	0.17	5.40	0.96
Decreased Consciousness	4.33	1.31	14.32	0.02	3.36	0.98	11.56	0.05	1.11	0.28	4.49	0.88	1.13	0.24	5.18	0.88	1.24	0.15	10.17	0.84
Seizure or Seizure Disorder	1.08	0.36	3.23	0.89	1.12	0.35	3.53	0.85	0.85	0.24	3.00	0.80	0.83	0.21	3.30	0.80	1.40	0.28	6.94	0.68
Any Post Stroke Disability	0.48	0.05	4.40	0.51	0.41	0.04	4.57	0.47	0.41	0.03	5.13	0.49	0.08	0.00	4.66	0.22				
Other Cerebral Ischemic Signs or Symptoms	0.46	0.02	10.32	0.63	0.33	0.01	10.70	0.53	0.18	0.01	5.19	0.32	0.27	0.01	10.67	0.49				
Paralysis	2.22	0.82	6.06	0.12	2.33	0.80	6.80	0.12	2.25	0.75	6.78	0.15	2.32	0.72	7.46	0.16	3.28	0.80	13.40	0.10
Other Neurological Disorders	2.26	0.97	5.23	0.06	2.08	0.86	5.05	0.11	1.59	0.63	4.04	0.33	1.78	0.64	4.93	0.27	2.06	0.58	7.22	0.26
Depression	2.21	1.03	4.75	0.04	2.15	0.97	4.77	0.06	2.20	0.98	4.95	0.06	2.42	0.99	5.90	0.05	1.86	0.64	5.43	0.26
Diabetes Mellitus	0.98	0.52	1.82	0.94	1.03	0.54	1.97	0.93	0.93	0.47	1.82	0.83	0.80	0.37	1.76	0.58	0.58	0.20	1.71	0.32
Diabetes Mellitus with Complications	1.78	0.58	5.40	0.31	1.57	0.49	5.03	0.45	1.55	0.47	5.10	0.47	1.15	0.26	5.03	0.85	1.67	0.37	7.46	0.50

Appendix Table J-4: Regression Validation: 30-Day Death (Restricted to Observations with Lab Results)

Table J-4: Regression Validation: 30-Day Death (Restricted to Observations with Lab Results)

Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + Labs + Stroke Severity				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Glucose at Admission	4.73	0.90	24.92	0.07	3.38	0.60	19.17	0.17	3.48	0.59	20.59	0.17	3.67	0.56	24.01	0.17	3.94	0.44	35.25	0.22
Acute Myocardial Infarction	3.49	0.50	24.41	0.21	2.93	0.37	22.96	0.31	2.39	0.30	19.03	0.41	1.29	0.13	12.34	0.83	5.90	0.22	158.96	0.29
Left Sided Valvular Heart Disease	0.05	0.00	1.94	0.11	0.14	0.00	5.68	0.30	0.13	0.00	10.99	0.37	0.07	0.00	23.20	0.38				
Atrial Fibrillation	1.63	0.88	3.01	0.12	1.53	0.79	2.97	0.21	1.39	0.70	2.75	0.35	1.49	0.71	3.13	0.30	0.86	0.33	2.21	0.75
History of CHF	0.84	0.42	1.71	0.64	0.92	0.43	1.95	0.82	0.93	0.42	2.06	0.86	0.81	0.34	1.94	0.63	1.39	0.43	4.48	0.59
Any Ischemic Heart Disease	1.22	0.66	2.26	0.53	1.08	0.56	2.08	0.81	1.05	0.53	2.08	0.88	1.30	0.63	2.70	0.48	1.19	0.45	3.16	0.72
Hyperlipidemia	0.67	0.38	1.18	0.17	0.74	0.41	1.33	0.31	0.87	0.47	1.61	0.66	0.82	0.42	1.60	0.56	0.97	0.41	2.30	0.94
Dementia or Alzheimer's Disease	1.41	0.54	3.67	0.48	1.55	0.56	4.27	0.39	1.97	0.70	5.58	0.20	2.34	0.75	7.30	0.14	1.71	0.45	6.51	0.43
Bleeding Disorders (excluding platelet disorders)	1.65	0.04	66.37	0.79	1.60	0.02	135.86	0.84	3.79	0.05	283.82	0.55	3.19	0.02	515.55	0.66				
Anticoagulation	1.49	0.50	4.45	0.48	1.51	0.47	4.83	0.49	1.45	0.43	4.89	0.55	1.95	0.48	7.96	0.35	0.84	0.16	4.46	0.84
Valvular Disease	1.95	0.62	6.10	0.25	1.38	0.35	5.48	0.64	1.51	0.37	6.10	0.56	1.49	0.33	6.68	0.60	1.31	0.20	8.37	0.78
Pulmonary Circulation Disease	0.46	0.06	3.58	0.46	0.70	0.09	5.68	0.74	0.63	0.08	5.11	0.66	0.73	0.09	6.05	0.77				
Peripheral Vascular Disease	0.54	0.20	1.49	0.24	0.59	0.21	1.69	0.33	0.57	0.18	1.79	0.34	0.42	0.12	1.52	0.19	0.56	0.13	2.35	0.42
Chronic Pulmonary Disease	2.29	1.08	4.84	0.03	1.76	0.78	3.96	0.17	1.51	0.64	3.53	0.35	1.25	0.50	3.13	0.64	1.20	0.33	4.38	0.78
Hypothyroidism	0.75	0.37	1.53	0.44	0.74	0.35	1.56	0.43	0.69	0.31	1.49	0.34	0.60	0.26	1.39	0.23	0.56	0.18	1.76	0.32
Renal Failure	0.60	0.26	1.41	0.24	0.69	0.29	1.64	0.40	0.50	0.20	1.25	0.14	0.37	0.12	1.15	0.09	1.07	0.31	3.61	0.92
Liver Disease	9.11	0.18	466.83	0.27	9.26	0.16	521.34	0.28	6.53	0.06	694.25	0.43	10.61	0.03	3862.16	0.43				
Lymphoma	0.91	0.04	21.64	0.95	0.91	0.02	34.16	0.96	0.93	0.01	66.90	0.97	0.94	0.01	79.96	0.98				
Metastatic Cancer	4.55	0.72	28.84	0.11	5.37	0.76	38.14	0.09	4.83	0.65	36.18	0.13	3.90	0.45	33.92	0.22				
Solid tumor without Metastasis	0.56	0.11	2.78	0.47	0.72	0.15	3.56	0.69	0.69	0.14	3.39	0.65	0.64	0.11	3.77	0.63	1.89	0.26	14.00	0.53
Rheumatoid Arthritis	0.48	0.11	2.10	0.33	0.36	0.07	1.76	0.21	0.36	0.07	1.77	0.21	0.44	0.08	2.45	0.35	0.38	0.05	2.98	0.36
Obesity	2.06	0.64	6.67	0.23	2.06	0.58	7.30	0.26	2.40	0.66	8.79	0.19	2.70	0.66	11.02	0.17	2.21	0.31	15.61	0.43
Weight Loss	2.09	0.41	10.66	0.37	2.22	0.41	12.09	0.36	1.99	0.33	11.87	0.45	3.81	0.62	23.37	0.15	0.72	0.02	24.38	0.85
Fluid and Electrolyte Disorders	1.20	0.58	2.47	0.62	0.95	0.44	2.07	0.91	0.97	0.44	2.13	0.94	1.13	0.49	2.62	0.78	1.81	0.61	5.30	0.28
Chronic Blood Loss Anemia	3.15	0.17	57.09	0.44	3.32	0.17	64.36	0.43	3.92	0.20	75.47	0.37	3.00	0.12	73.70	0.50	7.66	0.27	217.66	0.23

Appendix Table J-4: Regression Validation: 30-Day Death (Restricted to Observations with Lab Results)

Table J-4: Regression Validation: 30-Day Death (Restricted to Observations with Lab Results)

Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + Labs + Stroke Severity				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Deficiency Anemias	0.90	0.42	1.95	0.79	1.04	0.46	2.36	0.92	1.38	0.59	3.19	0.46	0.78	0.28	2.16	0.64	0.56	0.15	2.12	0.40
Psychoses	2.53	0.57	11.18	0.22	4.65	0.97	22.23	0.05	4.55	0.87	23.68	0.07	5.17	0.78	34.30	0.09	5.31	0.35	81.13	0.23
Hypertension	0.71	0.40	1.27	0.25	0.69	0.37	1.28	0.24	0.69	0.36	1.31	0.25	0.77	0.38	1.56	0.46	0.49	0.21	1.12	0.09
Drug Abuse	8.48	1.03	69.65	0.05	7.93	0.89	70.91	0.06	8.45	0.82	87.00	0.07	7.94	0.79	80.37	0.08				
Current Smoker	0.58	0.22	1.53	0.27	0.63	0.23	1.71	0.36	0.57	0.20	1.63	0.30	0.60	0.18	1.97	0.40	0.83	0.22	3.19	0.79
Recurrent Stroke	0.77	0.33	1.81	0.55	0.89	0.37	2.15	0.80	0.97	0.38	2.45	0.94	1.07	0.39	2.94	0.90	0.78	0.23	2.64	0.69
Former TIA	1.28	0.44	3.71	0.64	1.31	0.40	4.26	0.65	1.14	0.33	3.95	0.84	0.80	0.18	3.44	0.76	2.00	0.38	10.58	0.41
Non-English Speaking	0.97	0.93	1.02	0.27	0.97	0.92	1.02	0.29	0.96	0.92	1.02	0.18	0.96	0.90	1.01	0.12	1.02	0.94	1.11	0.61
<200% Poverty	1.00	0.98	1.03	0.90	1.00	0.97	1.03	0.96	1.00	0.98	1.03	0.80	1.01	0.98	1.04	0.55	0.97	0.92	1.01	0.18
Rural	3.47	0.86	13.90	0.08	4.03	0.97	16.70	0.06	4.51	1.04	19.58	0.04	5.29	1.10	25.38	0.04	8.26	1.34	51.02	0.02
Distance to High Volume Hospital	0.98	0.96	1.01	0.21	0.99	0.96	1.01	0.25	0.99	0.96	1.01	0.34	0.99	0.96	1.02	0.43	0.99	0.95	1.02	0.40
Distance to Medium Volume Hospital	1.05	1.00	1.09	0.04	1.05	1.01	1.10	0.02	1.05	1.00	1.10	0.04	1.05	1.00	1.10	0.07	1.10	1.03	1.18	0.01
Distance to Low Volume Hospital	0.99	0.96	1.02	0.51	0.98	0.95	1.02	0.28	0.97	0.93	1.01	0.12	0.97	0.93	1.01	0.10	0.97	0.92	1.03	0.35
Temperature					1.08	0.84	1.38	0.57	1.11	0.87	1.43	0.40	1.07	0.81	1.40	0.64	0.97	0.69	1.36	0.85
Heart Rate					1.01	1.00	1.02	0.19	1.01	1.00	1.03	0.18	1.01	0.99	1.03	0.26	1.00	0.98	1.02	0.70
Respiratory Rate					0.98	0.91	1.06	0.67	0.96	0.89	1.04	0.31	0.95	0.87	1.03	0.22	0.92	0.80	1.06	0.23
Systolic Blood Pressure					1.00	0.99	1.02	0.48	1.01	0.99	1.02	0.36	1.01	0.99	1.02	0.40	1.01	0.99	1.03	0.28
Diastolic Blood Pressure					1.01	0.99	1.03	0.37	1.01	0.99	1.03	0.43	1.01	0.99	1.03	0.30	1.00	0.98	1.03	0.83
Oxygen Saturation Level					0.99	0.90	1.08	0.77	0.98	0.90	1.08	0.73	0.95	0.86	1.05	0.33	0.95	0.84	1.07	0.38
Hematocrit													0.97	0.91	1.04	0.36				
WBC count													1.10	1.02	1.18	0.02				
Platelet Count													1.00	1.00	1.01	0.50				
First Serum Ceratinine													0.90	0.47	1.71	0.75				
Serum Blood Urea Nitrogen													1.01	0.98	1.05	0.42				
Serum Sodium													1.00	0.92	1.08	0.96				
Blood Glucose													1.00	0.99	1.01	1.00				
Systolic Blood Pressure at Discharge																	0.98	0.96	1.01	0.18

Appendix Table J-4: Regression Validation: 30-Day Death (Restricted to Observations with Lab Results)

Table J-4: Regression Validation: 30-Day Death (Restricted to Observations with Lab Results)

Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + Labs + Stroke Severity				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Diastolic Blood Pressure at Discharge																	1.04	1.00	1.09	0.05
Ambulatory																	0.21	0.09	0.48	0.00
NIHSS									1.09	1.05	1.13	0.00	1.09	1.05	1.14	0.00	1.07	1.01	1.13	0.02
	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + Labs + Stroke Severity				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status			
	Number of Obs	596			Number of Obs	579			Number of Obs	579			Number of Obs	558			Number of Obs	444		
	LRchi2(51)	158.02			LRchi2(51)	165.39			LRchi2(51)	189.58			LRchi2(51)	201			LRchi2(51)	134.09		
	Prob > chi2	0			Prob > chi2	0			Prob > chi2	0			Prob > chi2	0			Prob > chi2	0		
	Pseudo R2	0.2592			Pseudo R2	0.2825			Pseudo R2	0.3238			Pseudo R2	0.361			Pseudo R2	0.3626		

Appendix Table J-5: Regression Validation: 30-Day Readmission

Table J-5: Regression Validation: 30-Day Readmission

Variables	PDD Only				PDD + Admit Vitals				PDD + Admit Vitals + DC Vitals and Function				PDD + Admit Vitals + DC Vitals and Function + NIHSS				PDD + Admit Vitals + DC Vitals and Function + NIHSS + Labs			
	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|
Age in Years at Admission	0.99	0.98	1.01	0.50	1.00	0.98	1.02	0.77	0.99	0.98	1.01	0.56	0.99	0.98	1.01	0.61	0.98	0.96	1.01	0.18
Male	1.16	0.75	1.78	0.51	1.08	0.70	1.68	0.73	1.16	0.73	1.85	0.53	1.15	0.72	1.84	0.56	1.37	0.76	2.47	0.29
Hispanic	1.12	0.55	2.29	0.76	1.19	0.58	2.43	0.64	0.83	0.36	1.90	0.67	0.81	0.35	1.86	0.62	0.71	0.27	1.88	0.49
Black	1.07	0.51	2.25	0.86	1.13	0.53	2.38	0.76	1.10	0.52	2.36	0.80	1.07	0.50	2.30	0.86	0.64	0.24	1.69	0.37
Asian	1.38	0.70	2.75	0.35	1.30	0.63	2.69	0.47	1.21	0.57	2.57	0.63	1.19	0.56	2.55	0.65	0.73	0.29	1.82	0.50
Other	0.27	0.04	2.03	0.20	0.26	0.03	1.95	0.19	0.27	0.03	2.28	0.23	0.26	0.03	2.19	0.21	0.67	0.07	6.25	0.72
Source of Admission--Nursing Home	1.39	0.56	3.45	0.48	1.29	0.51	3.22	0.59	1.10	0.41	2.93	0.85	1.06	0.39	2.84	0.92	0.93	0.29	2.98	0.90
Other Source	0.00	0.00	.	1.00	0.00	0.00	.	1.00	0.00	0.00	.	1.00	0.00	0.00	.	1.00	0.00	0.00	.	1.00
Total Parenteral Nutrition (TPN)	0.00	0.00	.	1.00	0.00	.	.	.	0.00	0.00	.	1.00	0.00	0.00	.	1.00	0.00	0.00	.	1.00
Cardiac Arrest	2.16	0.41	11.20	0.36	1.95	0.35	10.86	0.45	0.89	0.09	8.32	0.92	0.97	0.10	9.11	0.98	0.22	0.01	3.78	0.30
Aphasia	0.83	0.39	1.75	0.62	0.87	0.41	1.85	0.72	0.82	0.36	1.86	0.64	0.78	0.34	1.79	0.56	0.58	0.20	1.68	0.31
Dysathria	1.23	0.72	2.12	0.45	1.23	0.71	2.12	0.46	1.27	0.73	2.22	0.40	1.21	0.69	2.13	0.50	1.14	0.56	2.33	0.72
Dysphagia	1.11	0.35	3.57	0.86	1.18	0.36	3.87	0.78	1.07	0.29	3.99	0.92	0.92	0.23	3.61	0.90	0.49	0.08	3.12	0.45
Facial Palsy	0.64	0.28	1.46	0.29	0.63	0.27	1.46	0.28	0.74	0.32	1.75	0.50	0.74	0.32	1.75	0.50	0.94	0.33	2.71	0.92
Hemiplegia	0.64	0.29	1.40	0.26	0.71	0.32	1.57	0.40	0.65	0.29	1.46	0.30	0.59	0.26	1.33	0.20	0.57	0.22	1.46	0.24
Other Paralysis	3.42	0.82	14.22	0.09	3.67	0.87	15.49	0.08	2.90	0.67	12.57	0.16	2.55	0.58	11.19	0.22	4.90	0.86	27.82	0.07
Hemineglect	1.18	0.13	10.61	0.88	1.00	0.10	9.80	1.00	1.02	0.08	12.24	0.99	0.96	0.08	11.61	0.97	2.34	0.12	45.94	0.58
Loss of Vision	0.78	0.10	5.94	0.81	0.79	0.10	5.99	0.82	0.97	0.12	7.63	0.97	0.82	0.10	6.55	0.85	0.00	0.00	.	1.00
Apraxia	5.62	1.17	26.93	0.03	5.64	1.15	27.60	0.03	6.02	1.17	31.06	0.03	6.25	1.21	32.33	0.03	5.11	0.48	53.89	0.18
Ataxia	0.94	0.44	2.04	0.88	1.01	0.46	2.20	0.99	1.00	0.45	2.22	1.00	1.05	0.47	2.33	0.91	1.38	0.53	3.58	0.51
Decreased Consciousness	0.56	0.15	2.17	0.41	0.66	0.17	2.64	0.56	0.43	0.08	2.34	0.33	0.42	0.08	2.22	0.30	0.00	0.00	.	1.00
Seizure or Seizure Disorder	0.72	0.30	1.71	0.46	0.70	0.29	1.70	0.43	0.46	0.16	1.27	0.14	0.45	0.16	1.26	0.13	0.14	0.03	0.64	0.01
Any Post Stroke Disability	0.81	0.10	6.44	0.84	0.66	0.08	5.42	0.70	0.76	0.09	6.13	0.80	0.63	0.07	5.66	0.68	0.59	0.05	7.44	0.68

Appendix Table J-5: Regression Validation: 30-Day Readmission

Table J-5: Regression Validation: 30-Day Readmission

Variables	PDD Only				PDD + Admit Vitals				PDD + Admit Vitals + DC Vitals and Function				PDD + Admit Vitals + DC Vitals and Function + NIHSS				PDD + Admit Vitals + DC Vitals and Function + NIHSS + Labs			
	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|
Other Cerebral Ischemic Signs or Symptoms	0.84	0.14	5.11	0.85	0.98	0.15	6.28	0.98	0.63	0.05	7.34	0.72	0.52	0.04	6.81	0.62	7.79	0.27	223.42	0.23
Paralysis	1.28	0.54	3.01	0.58	1.20	0.51	2.82	0.68	1.11	0.46	2.67	0.81	1.15	0.48	2.76	0.76	0.90	0.34	2.42	0.84
Other Neurological Disorders	1.79	0.90	3.56	0.10	1.80	0.90	3.58	0.10	1.87	0.87	4.02	0.11	1.81	0.84	3.91	0.13	3.13	1.07	9.20	0.04
Depression	2.18	1.17	4.06	0.01	2.08	1.12	3.88	0.02	2.35	1.23	4.47	0.01	2.28	1.20	4.36	0.01	1.80	0.83	3.90	0.13
Diabetes Mellitus	1.13	0.68	1.88	0.65	1.23	0.73	2.06	0.43	1.18	0.68	2.04	0.55	1.19	0.69	2.06	0.52	1.25	0.56	2.77	0.58
Diabetes Mellitus with Complications	1.25	0.55	2.83	0.60	1.38	0.61	3.14	0.44	1.46	0.61	3.46	0.39	1.53	0.65	3.63	0.33	1.78	0.59	5.37	0.31
Glucose at Admission	1.87	0.39	9.03	0.43	1.70	0.34	8.42	0.51	1.97	0.40	9.62	0.40	1.83	0.37	9.10	0.46	1.30	0.14	12.05	0.82
Acute Myocardial Infarction	0.66	0.10	4.36	0.66	0.50	0.07	3.45	0.49	0.80	0.11	5.74	0.82	0.75	0.10	5.61	0.78	0.88	0.03	27.02	0.94
Left Sided Valvular Heart Disease	0.26	0.03	2.68	0.26	0.24	0.02	2.56	0.24	0.22	0.02	2.47	0.22	0.26	0.02	2.93	0.27	0.53	0.03	8.13	0.65
Right Sided Valvular Heart Disease	0.00	0.00	.	1.00	0.00	0.00	.	1.00	0.00	0.00	.	1.00	0.00	0.00	.	1.00	0.00	0.00	.	1.00
Atrial Fibrillation	1.06	0.61	1.84	0.83	1.06	0.61	1.84	0.85	1.17	0.65	2.09	0.60	1.10	0.61	1.98	0.75	0.88	0.40	1.92	0.75
History of CHF	0.69	0.37	1.29	0.24	0.68	0.36	1.28	0.23	0.70	0.36	1.37	0.30	0.71	0.36	1.40	0.33	1.16	0.48	2.82	0.74
Any Ischemic Heart Disease	0.88	0.52	1.46	0.61	0.90	0.54	1.51	0.69	0.81	0.47	1.39	0.44	0.83	0.48	1.44	0.51	0.98	0.51	1.89	0.95
Hyperlipidemia	0.74	0.48	1.13	0.17	0.76	0.50	1.17	0.22	0.84	0.53	1.32	0.45	0.87	0.55	1.36	0.53	1.08	0.61	1.93	0.78
Dementia or Alzheimer's Disease	1.34	0.63	2.89	0.45	1.28	0.60	2.73	0.52	1.18	0.54	2.60	0.68	1.20	0.54	2.66	0.65	0.97	0.34	2.77	0.95
Bleeding Disorders (excluding platelet disorders)	3.82	0.67	21.84	0.13	3.38	0.56	20.45	0.19	2.95	0.36	24.23	0.31	3.41	0.41	28.10	0.26				

Appendix Table J-5: Regression Validation: 30-Day Readmission

Table J-5: Regression Validation: 30-Day Readmission

Variables	PDD Only				PDD + Admit Vitals				PDD + Admit Vitals + DC Vitals and Function				PDD + Admit Vitals + DC Vitals and Function + NIHSS				PDD + Admit Vitals + DC Vitals and Function + NIHSS + Labs			
	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|
Anticoagulation	0.24	0.05	1.21	0.08	0.19	0.04	1.00	0.05	0.17	0.03	0.90	0.04	0.17	0.03	0.92	0.04	0.25	0.03	2.20	0.21
hypcoasta_y	5.79	0.71	47.28	0.10	5.64	0.67	47.27	0.11	6.34	0.74	54.08	0.09	6.59	0.78	55.97	0.08				
Valvular Disease	3.68	1.76	7.71	0.00	3.93	1.84	8.37	0.00	3.53	1.62	7.70	0.00	3.36	1.53	7.37	0.00	1.91	0.62	5.93	0.26
Pulmonary Circulation Disease	1.81	0.40	8.14	0.44	1.72	0.38	7.82	0.48	1.52	0.33	7.08	0.59	1.37	0.29	6.47	0.69	0.52	0.09	3.16	0.48
Peripheral Vascular Disease	1.23	0.58	2.62	0.60	1.24	0.55	2.79	0.60	1.02	0.43	2.41	0.97	1.01	0.43	2.36	0.99	0.94	0.29	3.04	0.91
Chronic Pulmonary Disease	1.79	0.95	3.39	0.07	1.81	0.94	3.50	0.08	1.93	0.99	3.79	0.06	1.92	0.98	3.79	0.06	2.79	1.17	6.65	0.02
Hypothyroidism	0.82	0.43	1.54	0.53	0.81	0.42	1.55	0.52	0.86	0.44	1.69	0.67	0.85	0.43	1.68	0.65	0.89	0.38	2.11	0.79
Renal Failure	2.26	1.28	4.00	0.01	2.42	1.35	4.33	0.00	2.59	1.41	4.75	0.00	2.46	1.33	4.52	0.00	2.43	1.01	5.85	0.05
Liver Disease	1.25	0.10	16.16	0.86	1.20	0.09	15.58	0.89	1.72	0.12	25.65	0.69	1.92	0.13	27.48	0.63	0.86	0.02	37.49	0.94
AIDS	0.00	0.00	.	1.00	0.00	.	.	.	0.00	0.00	.	1.00	0.00	0.00	.	1.00	0.00	0.00	.	1.00
Lymphoma	2.04	0.24	17.66	0.52	1.57	0.18	13.82	0.69	6.32	0.32	123.04	0.22	6.99	0.35	137.77	0.20	0.00	0.00	.	1.00
Metastatic Cancer	2.40	0.73	7.91	0.15	1.87	0.46	7.61	0.38	1.28	0.25	6.64	0.77	1.31	0.25	6.81	0.75	0.40	0.03	6.01	0.51
Solid tumor without Metastasis	0.47	0.06	3.75	0.48	0.42	0.05	3.31	0.41	0.55	0.07	4.27	0.57	0.55	0.07	4.27	0.57	0.52	0.06	4.44	0.55
Rheumatoid Arthritis	0.42	0.09	1.90	0.26	0.43	0.09	1.97	0.28	0.46	0.10	2.12	0.32	0.45	0.10	2.08	0.31	0.26	0.05	1.43	0.12
Obesity	0.55	0.19	1.63	0.28	0.56	0.19	1.69	0.31	0.57	0.19	1.71	0.31	0.58	0.19	1.74	0.33	0.70	0.20	2.49	0.59
Weight Loss	1.25	0.33	4.76	0.74	1.15	0.30	4.51	0.84	1.04	0.25	4.34	0.96	0.98	0.24	4.07	0.98	0.47	0.07	3.24	0.44
Fluid and Electrolyte Disorders	1.32	0.72	2.43	0.37	1.24	0.67	2.31	0.49	1.35	0.71	2.54	0.36	1.31	0.69	2.49	0.40	0.97	0.39	2.44	0.95
Chronic Blood Loss Anemia	0.00	0.00	.	1.00	0.00	.	.	.	0.00	0.00	.	1.00	0.00	0.00	.	1.00	0.00	0.00	.	1.00
Deficiency Anemias	1.29	0.70	2.39	0.41	1.24	0.66	2.32	0.51	1.20	0.61	2.37	0.59	1.21	0.62	2.38	0.57	0.97	0.41	2.32	0.95
Psychoses	1.79	0.54	5.96	0.34	2.00	0.60	6.68	0.26	1.19	0.28	5.17	0.81	1.15	0.26	4.99	0.86	0.57	0.06	5.15	0.62

Appendix Table J-5: Regression Validation: 30-Day Readmission

Table J-5: Regression Validation: 30-Day Readmission

Variables	PDD Only				PDD + Admit Vitals				PDD + Admit Vitals + DC Vitals and Function				PDD + Admit Vitals + DC Vitals and Function + NIHSS				PDD + Admit Vitals + DC Vitals and Function + NIHSS + Labs			
	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|
Hypertension	1.14	0.72	1.83	0.57	1.13	0.70	1.83	0.60	1.22	0.74	2.02	0.44	1.18	0.71	1.96	0.53	0.88	0.47	1.66	0.70
Alcohol Abuse	1.15	0.41	3.26	0.79	1.21	0.42	3.45	0.72	0.68	0.17	2.70	0.59	0.73	0.19	2.89	0.66	1.81	0.36	9.16	0.48
Drug Abuse	0.93	0.20	4.35	0.93	0.90	0.18	4.40	0.89	0.78	0.14	4.33	0.78	0.80	0.14	4.45	0.80	0.35	0.03	4.94	0.44
Current Smoker	0.68	0.33	1.38	0.28	0.66	0.31	1.41	0.28	0.77	0.35	1.66	0.50	0.76	0.35	1.65	0.49	0.47	0.16	1.38	0.17
Recurrent Stroke	1.47	0.80	2.70	0.21	1.38	0.73	2.59	0.32	1.43	0.75	2.75	0.28	1.46	0.76	2.80	0.26	2.29	1.05	5.01	0.04
Former TIA	0.94	0.40	2.21	0.89	0.83	0.33	2.08	0.70	0.60	0.22	1.66	0.33	0.60	0.22	1.65	0.32	0.60	0.15	2.35	0.46
Resolved TIA	0.00	0.00	.	1.00	0.00	.	.	.	0.00	0.00	.	1.00	0.00	0.00	.	1.00	0.00	0.00	.	1.00
Non-English Speaking	1.00	0.97	1.03	0.91	1.00	0.97	1.03	0.87	1.01	0.97	1.04	0.65	1.01	0.97	1.04	0.65	1.02	0.98	1.07	0.35
<200% Poverty	1.00	0.98	1.02	0.96	1.00	0.98	1.02	0.86	1.00	0.98	1.02	0.70	1.00	0.98	1.02	0.69	0.99	0.97	1.02	0.57
Rural	0.61	0.19	1.97	0.41	0.61	0.19	1.96	0.40	0.51	0.13	1.91	0.32	0.50	0.13	1.88	0.30	0.78	0.14	4.30	0.78
Distance to High Volume Hospital	1.00	0.98	1.02	0.87	1.00	0.98	1.02	0.74	1.00	0.97	1.02	0.68	0.99	0.97	1.02	0.63	0.98	0.95	1.01	0.19
Distance to Medium Volume Hospital	1.00	0.97	1.03	0.98	1.00	0.97	1.03	0.93	1.00	0.97	1.04	0.88	1.00	0.97	1.04	0.80	1.02	0.97	1.07	0.44
Distance to Low Volume Hospital	1.03	1.01	1.06	0.02	1.03	1.00	1.06	0.03	1.03	1.00	1.06	0.03	1.03	1.00	1.06	0.05	1.02	0.99	1.06	0.16
Temperature					0.90	0.73	1.12	0.35	0.99	0.79	1.24	0.90	1.01	0.80	1.27	0.92	1.01	0.75	1.36	0.96
Heart Rate					1.00	0.99	1.02	0.44	1.01	0.99	1.02	0.35	1.01	0.99	1.02	0.36	1.01	0.99	1.02	0.23
Respiratory Rate					1.00	0.94	1.06	0.90	1.02	0.96	1.08	0.54	1.02	0.96	1.07	0.56	1.05	0.98	1.12	0.14
Systolic Blood Pressure					0.99	0.98	1.00	0.08	0.99	0.98	1.00	0.10	0.99	0.98	1.00	0.12	0.99	0.98	1.01	0.28
Diastolic Blood Pressure					1.01	0.99	1.02	0.33	1.00	0.99	1.02	0.76	1.00	0.99	1.02	0.89	1.00	0.98	1.02	0.85
Oxygen Saturation Level					1.01	0.93	1.09	0.85	1.03	0.95	1.13	0.47	1.04	0.95	1.13	0.43	1.09	0.96	1.24	0.18
Systolic Blood Pressure at Discharge									1.00	0.98	1.01	0.52	1.00	0.98	1.01	0.47	1.00	0.98	1.02	0.97

Appendix Table J-5: Regression Validation: 30-Day Readmission

Table J-5: Regression Validation: 30-Day Readmission

Variables	PDD Only				PDD + Admit Vitals				PDD + Admit Vitals + DC Vitals and Function				PDD + Admit Vitals + DC Vitals and Function + NIHSS				PDD + Admit Vitals + DC Vitals and Function + NIHSS + Labs			
	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|	Haz Ratio	95% CI		P>|z|
Diastolic Blood Pressure at Discharge									1.01	0.98	1.03	0.60	1.01	0.98	1.03	0.50	1.01	0.97	1.04	0.71
Ambulatory									0.78	0.48	1.27	0.32	0.84	0.51	1.38	0.49	0.48	0.26	0.91	0.02
NIHSS													1.03	0.99	1.07	0.11	1.06	1.01	1.12	0.02
Hematocrit																	0.95	0.90	1.00	0.07
WBC Count																	0.94	0.86	1.03	0.19
Platelet Count																	1.00	1.00	1.00	0.87
First Serum Ceratinine																	0.88	0.61	1.28	0.50
Serum Blood Urea Nitrogen																	1.01	0.98	1.04	0.65
Serum Sodium																	0.99	0.92	1.07	0.78
	PDD Only				PDD + Admit Vitals				PDD + Admit Vitals + DC Vitals and Function				PDD + Admit Vitals + DC Vitals and Function + NIHSS				PDD + Admit Vitals + DC Vitals and Function + NIHSS + Labs			
	Number of Obs	894			Number of Obs	877			Number of Obs	797			Number of Obs	797			Number of Obs	501		
	LRchi2(72)	87.38			LRchi2(72)	90.67			LRchi2(72)	92.73			LRchi2(72)	95.12			LRchi2(72)	99.85		
	Prob > chi2	0.1048			Prob > chi2	0.1546			Prob > chi2	0.1755			Prob > chi2	0.1524			Prob > chi2	0.1635		

Appendix Table J-6: Stepwise Regression Inpatient Death (all)

Table J-6: Stepwise Regression Hospital Death (all)												
Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Age in Years at Admission	1.04	1.02	1.06	0.00	1.04	1.01	1.06	0.00	1.03	1.01	1.06	0.01
Hypertension	0.72	0.42	1.24	0.23	0.74	0.42	1.31	0.30	0.54	0.28	1.02	0.06
Weight Loss	2.76	0.76	9.97	0.12	1.75	0.40	7.68	0.46	1.30	0.28	6.11	0.74
Anticoagulation	1.89	0.75	4.74	0.18	2.08	0.81	5.36	0.13	1.54	0.54	4.38	0.42
Distance to High Volume Hospital	1.02	1.00	1.04	0.07	1.02	1.00	1.05	0.03	1.02	0.99	1.04	0.12
Peripheral Vascular Disease	0.46	0.15	1.45	0.19	0.56	0.18	1.74	0.32	0.38	0.10	1.43	0.15
Total Parenteral Nutrition (TPN)	30.37	2.09	441.62	0.01	33.42	2.51	444.82	0.01	69.57	5.27	918.39	0.00
Dementia or Alzheimer's Disease	0.35	0.12	1.06	0.06	0.29	0.09	1.01	0.05	0.40	0.10	1.56	0.19
Dysathria	0.35	0.16	0.77	0.01	0.32	0.14	0.73	0.01	0.30	0.12	0.76	0.01
Rural	0.46	0.11	1.90	0.28	0.41	0.10	1.76	0.23	0.47	0.10	2.16	0.33
Deficiency Anemias	1.66	0.89	3.11	0.11	1.78	0.92	3.44	0.09	2.20	1.06	4.55	0.03
Hemiplegia	0.50	0.17	1.41	0.19	0.42	0.14	1.29	0.13	0.27	0.08	0.97	0.04
Distance to Medium Volume Hospital	0.96	0.92	1.00	0.06	0.96	0.92	1.00	0.05	0.96	0.92	1.01	0.12
Chronic Pulmonary Disease	3.31	1.81	6.04	0.00	2.81	1.48	5.34	0.00	2.72	1.31	5.67	0.01
Decreased Consciousness	6.84	2.83	16.51	0.00	5.98	2.35	15.18	0.00	1.72	0.53	5.53	0.36
Seizure or Seizure Disorder	0.61	0.21	1.80	0.37	0.61	0.20	1.91	0.40	0.31	0.08	1.19	0.09
Any Post Stroke Disability	3.01	0.53	16.99	0.21	3.57	0.61	20.68	0.16	2.24	0.22	22.78	0.50
Hypothyroidism	0.66	0.32	1.35	0.26	0.72	0.34	1.51	0.39	0.76	0.34	1.70	0.51
Paralysis	3.04	1.06	8.71	0.04	3.60	1.16	11.13	0.03	2.97	0.83	10.58	0.09

Appendix Table J-6: Stepwise Regression Inpatient Death (all)

Table J-6: Stepwise Regression Hospital Death (all)												
Variables	**PDD Only**				**PDD + Vitals**				**PDD + Vitals + NIHSS**			
	OR	**95% CI**		**P>|z|**	**OR**	**95% CI**		**P>|z|**	**OR**	**95% CI**		**P>|z|**
Other Neurological Disorders	1.68	0.97	2.93	0.07	1.42	0.78	2.58	0.25	1.44	0.75	2.77	0.28
Valvular Disease	3.40	1.57	7.33	0.00	3.36	1.46	7.70	0.00	2.61	0.99	6.86	0.05
Diabetes without Chronic Complications	2.37	1.40	4.01	0.00	2.42	1.40	4.18	0.00	2.53	1.36	4.69	0.00
Liver Disease	5.06	0.97	26.52	0.06	4.39	0.74	26.05	0.10	5.14	0.76	34.62	0.09
Resolved TIA	9.07	0.51	162.09	0.13	7.59	0.40	142.94	0.18	14.74	0.73	298.46	0.08
Acute Ischemic Heart Disease	0.66	0.37	1.19	0.17	0.64	0.35	1.18	0.15	0.73	0.37	1.46	0.38
Obesity	2.59	1.02	6.53	0.04	1.83	0.64	5.27	0.26	2.10	0.63	6.99	0.23
Drug Abuse	7.30	1.76	30.39	0.01	7.65	1.81	32.36	0.01	7.50	1.42	39.56	0.02
Temperature					1.00	0.79	1.27	1.00	0.94	0.73	1.21	0.63
Heart Rate					1.01	1.00	1.03	0.02	1.01	1.00	1.02	0.17
Respiratory Rate					1.07	1.01	1.12	0.02	1.06	1.00	1.12	0.07
Systolic Blood Pressure					1.00	0.99	1.01	0.48	1.00	0.99	1.01	0.65
Diastolic Blood Pressure					0.99	0.97	1.00	0.13	0.99	0.97	1.00	0.13
Oxygen Saturation Level					0.98	0.91	1.06	0.64	0.99	0.91	1.09	0.88
NIHSS									1.13	1.10	1.16	0.00
	PDD Only				**PDD + Vitals**				**PDD + Vitals + NIHSS**			
	Number of Obs	981			Number of Obs	958			Number of Obs	958		
	LRchi2(27)	120.83			LRchi2(51)	124.44			LRchi2(51)	207.34		
	Prob > chi2	0			Prob > chi2	0			Prob > chi2	0		
	Pseudo R2	0.1964			Pseudo R2	0.2134			Pseudo R2	0.3555		

Appendix Table J-7: Stepwise Regression Inpatient Death (Restricted to Observations with Lab Results)

Table J-7: Stepwise Regression Hospital Death (Restricted to Observations with Lab Results)

Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + Labs + Stroke Severity			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Age in Years at Admission	1.05	1.02	1.08	0.00	1.04	1.01	1.07	0.01	1.03	1.00	1.07	0.05	1.03	0.99	1.07	0.11
Hypertension	0.60	0.30	1.19	0.14	0.71	0.34	1.48	0.36	0.62	0.28	1.39	0.25	0.64	0.26	1.61	0.35
Weight Loss	1.69	0.25	11.33	0.59	1.48	0.22	10.22	0.69	1.22	0.17	8.71	0.85	1.09	0.12	9.67	0.94
Anticoagulation	1.14	0.30	4.37	0.85	1.18	0.29	4.77	0.81	0.93	0.20	4.37	0.93	0.98	0.16	6.23	0.99
Distance to High Volume Hospital	1.02	0.99	1.05	0.12	1.03	1.00	1.06	0.07	1.03	1.00	1.06	0.05	1.04	1.00	1.07	0.04
Peripheral Vascular Disease	0.64	0.19	2.15	0.47	0.86	0.26	2.86	0.81	0.65	0.17	2.47	0.53	0.79	0.18	3.39	0.75
Total Parenteral Nutrition (TPN)	53.06	3.33	845.17	0.01	45.77	3.02	693.02	0.01	79.91	5.56	1148.45	0.00	135.36	7.84	2335.73	0.00
Dementia or Alzheimer's Disease	0.42	0.12	1.56	0.20	0.33	0.08	1.49	0.15	0.38	0.07	2.01	0.26	0.38	0.06	2.41	0.30
Dysathria	0.21	0.06	0.73	0.01	0.23	0.06	0.81	0.02	0.28	0.08	1.02	0.05	0.28	0.07	1.08	0.07
Rural	1.02	0.24	4.41	0.98	0.89	0.19	4.08	0.88	0.91	0.18	4.56	0.91	0.60	0.10	3.48	0.57
Deficiency Anemias	1.80	0.79	4.13	0.16	1.69	0.70	4.07	0.24	2.37	0.94	5.98	0.07	2.69	0.79	9.17	0.11
Hemiplegia	0.46	0.11	1.84	0.27	0.50	0.12	2.02	0.33	0.39	0.09	1.67	0.21	0.54	0.12	2.35	0.41
Distance to Medium Volume Hospital	0.96	0.91	1.02	0.18	0.96	0.91	1.01	0.15	0.95	0.90	1.01	0.11	0.94	0.88	1.01	0.08
Chronic Pulmonary Disease	2.95	1.30	6.70	0.01	2.57	1.08	6.07	0.03	2.19	0.85	5.70	0.11	1.80	0.62	5.21	0.28
Decreased Consciousness	14.41	4.53	45.82	0.00	12.26	3.54	42.43	0.00	3.01	0.69	13.18	0.15	2.75	0.55	13.78	0.22
Seizure or Seizure Disorder	0.31	0.07	1.40	0.13	0.30	0.06	1.59	0.16	0.12	0.02	0.81	0.03	0.11	0.01	1.03	0.05
Any Post Stroke Disability	4.25	0.61	29.46	0.14	4.69	0.64	34.18	0.13	4.57	0.42	49.73	0.21	1.32	0.03	51.74	0.88
Hypothyroidism	0.61	0.23	1.59	0.31	0.67	0.25	1.78	0.42	0.67	0.24	1.85	0.44	0.67	0.22	2.03	0.48
Paralysis	1.98	0.47	8.24	0.35	1.73	0.41	7.28	0.46	1.21	0.27	5.38	0.81	0.84	0.18	3.92	0.83

Appendix Table J-7: Stepwise Regression Inpatient Death (Restricted to Observations with Lab Results)

Table J-7: Stepwise Regression Hospital Death (Restricted to Observations with Lab Results)

Variables	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + Labs + Stroke Severity			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Other Neurological Disorders	1.98	0.95	4.14	0.07	1.79	0.82	3.91	0.15	1.66	0.72	3.83	0.24	1.24	0.49	3.15	0.65
Valvular Disease	2.16	0.64	7.24	0.21	2.42	0.68	8.62	0.17	2.45	0.63	9.47	0.20	3.15	0.73	13.62	0.13
Diabetes without Chronic Complications	2.65	1.34	5.23	0.01	2.61	1.29	5.26	0.01	2.94	1.36	6.33	0.01	2.74	1.08	6.99	0.04
Liver Disease	1.48	0.09	25.59	0.79	2.22	0.17	28.75	0.54	1.78	0.12	26.22	0.67	1.88	0.11	32.20	0.66
Acute Ischemic Heart Disease	0.98	0.47	2.04	0.95	0.87	0.40	1.88	0.72	0.99	0.43	2.26	0.98	1.21	0.50	2.95	0.67
Obesity	2.41	0.71	8.21	0.16	1.73	0.45	6.66	0.42	1.82	0.43	7.67	0.42	2.42	0.53	11.00	0.25
Drug Abuse	20.95	3.62	121.20	0.00	17.39	2.77	109.15	0.00	13.54	1.64	111.92	0.02	21.29	2.74	165.46	0.00
Temperature					1.04	0.75	1.45	0.80	1.03	0.73	1.43	0.89	1.03	0.73	1.46	0.85
Heart Rate					1.02	1.00	1.03	0.06	1.02	1.00	1.03	0.06	1.02	1.00	1.04	0.14
Respiratory Rate					1.05	0.99	1.12	0.13	1.03	0.96	1.12	0.38	1.02	0.93	1.11	0.73
Systolic Blood Pressure					1.00	0.99	1.02	0.85	1.00	0.99	1.02	0.66	1.00	0.99	1.02	0.70
Diastolic Blood Pressure					0.99	0.97	1.01	0.41	0.99	0.96	1.01	0.33	0.98	0.96	1.01	0.23
Oxygen Saturation Level					0.99	0.89	1.11	0.85	1.00	0.89	1.13	0.99	1.00	0.88	1.13	0.98
Hematocrit													1.05	0.96	1.14	0.32
WBC Count													1.15	1.05	1.25	0.00
Platelet Count													1.00	1.00	1.01	0.80
First Serum Ceratinine													0.92	0.56	1.50	0.74
Serum Blood Urea Nitrogen													1.01	0.97	1.04	0.74
Serum Sodium													0.94	0.88	1.02	0.14
Glucose													1.00	0.99	1.01	0.69
NIHSS									1.12	1.08	1.16	0.00	1.13	1.08	1.18	0.00
	PDD Only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + Labs + Stroke Severity			

Appendix Table J-7: Stepwise Regression Inpatient Death (Restricted to Observations with Lab Results)

Table J-7: Stepwise Regression Hospital Death (Restricted to Observations with Lab Results)

Variables	PDD Only			PDD + Vitals			PDD + Vitals + NIHSS			PDD + Vitals + Labs + Stroke Severity		
	OR	95% CI	P>|z|	OR	95% CI	P>|z|	OR	95% CI	P>|z|	OR	95% CI	P>|z|
	Number of Obs	636		Number of Obs	619		Number of Obs	619		Number of Obs	596	
	LRchi2(27) =	83.82		LRchi2(27) =	83.64		LRchi2(27) =	119.21		LRchi2(27) =	126.71	
	Prob > chi2 =	0		Prob > chi2 =	0		Prob > chi2 =	0		Prob > chi2 =	0	
	Pseudo R2 =	0.2211		Pseudo R2 =	0.2311		Pseudo R2 =	0.3294		Pseudo R2 =	0.3741	

Appendix Table J-8: Regression Validation: 30-Day Mortality--Limited Variables

Table J-8: Regression Validation: 30-Day Mortality--Limited Variables																
Variables	PDD Only				PDD +Vitals				PDD +Vitals + NIHSS				PDD +Vitals + NIHSS + DC Vitals + Ambulatory Status			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Age in Years at Admission	1.04	1.03	1.06	0.00	1.04	1.03	1.06	0.00	1.05	1.03	1.07	0.00	1.05	1.02	1.08	0.00
Male	0.66	0.45	0.96	0.03	0.67	0.45	0.99	0.05	0.75	0.50	1.14	0.18	0.57	0.33	0.99	0.05
Rheumatoid Arthritis	0.45	0.12	1.71	0.24	0.41	0.11	1.59	0.20	0.44	0.11	1.69	0.23	0.63	0.12	3.24	0.58
Psychoses	2.29	0.78	6.74	0.13	3.09	1.03	9.27	0.04	2.73	0.87	8.57	0.09	2.66	0.48	14.66	0.26
Former TIA	0.59	0.26	1.37	0.22	0.58	0.24	1.42	0.23	0.55	0.22	1.43	0.22	0.84	0.27	2.54	0.75
Source of Admission--Nursing Home	2.12	1.08	4.15	0.03	2.16	1.07	4.36	0.03	2.24	1.09	4.62	0.03	1.93	0.83	4.51	0.13
Total Parenteral Nutrition (TPN)	4.79	0.35	65.68	0.24	4.89	0.34	69.64	0.24	6.99	0.47	103.90	0.16				
Valvular Disease	1.87	0.95	3.66	0.07	1.70	0.83	3.48	0.14	1.54	0.72	3.26	0.26	0.96	0.34	2.70	0.94
Metastatic Cancer	3.97	1.33	11.85	0.01	4.60	1.43	14.80	0.01	4.59	1.34	15.75	0.02	0.80	0.06	10.79	0.87
Dysphagia	0.47	0.15	1.43	0.18	0.33	0.09	1.18	0.09	0.33	0.10	1.15	0.08	0.29	0.04	2.33	0.24
Facial Palsy	0.77	0.42	1.42	0.41	0.71	0.37	1.36	0.30	0.63	0.32	1.25	0.19	0.57	0.23	1.43	0.23
Hypothyroidism	0.67	0.40	1.14	0.14	0.76	0.44	1.30	0.32	0.77	0.43	1.35	0.36	0.54	0.25	1.14	0.11
Alcohol Abuse	0.74	0.22	2.43	0.62	0.57	0.15	2.18	0.41	0.78	0.20	3.00	0.72	0.45	0.05	4.04	0.48
Distance to Medium Volume Hospital	1.01	0.99	1.04	0.31	1.02	0.99	1.05	0.17	1.02	0.99	1.05	0.13	1.03	1.00	1.07	0.06
Ataxia	0.20	0.06	0.68	0.01	0.14	0.03	0.62	0.01	0.23	0.05	1.04	0.06	0.32	0.07	1.52	0.15
Decreased Consciousness	6.91	2.91	16.40	0.00	5.74	2.31	14.24	0.00	2.64	0.93	7.52	0.07	1.60	0.40	6.36	0.51
Distance to High Volume Hospital	0.99	0.98	1.01	0.34	0.99	0.98	1.01	0.37	0.99	0.97	1.01	0.25	0.99	0.98	1.01	0.54
Non-English Speaking	0.98	0.96	1.00	0.04	0.98	0.96	1.00	0.06	0.97	0.95	1.00	0.03	0.98	0.96	1.01	0.28
Weight Loss	2.12	0.70	6.45	0.19	1.96	0.62	6.21	0.25	1.79	0.56	5.79	0.33	1.11	0.19	6.52	0.91
Paralysis	2.27	1.57	3.29	0.00	2.37	1.62	3.47	0.00	1.78	1.18	2.68	0.01	1.45	0.85	2.47	0.17
Other Neurological Disorders	1.63	1.12	2.38	0.01	1.64	1.11	2.43	0.01	1.38	0.91	2.08	0.13	1.38	0.82	2.33	0.23
Depression	1.45	0.83	2.54	0.19	1.37	0.76	2.47	0.29	1.34	0.73	2.47	0.35	1.29	0.60	2.77	0.52
Diabetes without Chronic Complications	1.37	0.89	2.09	0.15	1.37	0.88	2.12	0.16	1.29	0.81	2.05	0.29	1.02	0.54	1.93	0.96

Appendix Table J-8: Regression Validation: 30-Day Mortality--Limited Variables

Table J-8: Regression Validation: 30-Day Mortality--Limited Variables

Variables	PDD Only				PDD +Vitals				PDD +Vitals + NIHSS				PDD +Vitals + NIHSS + DC Vitals + Ambulatory Status			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Diabetes with Chronic Complications	1.45	0.68	3.09	0.33	1.52	0.70	3.30	0.29	1.95	0.88	4.31	0.10	1.68	0.62	4.53	0.30
Admission Glucose	3.31	1.09	10.05	0.03	2.54	0.78	8.32	0.12	2.45	0.74	8.10	0.14	3.15	0.83	11.96	0.09
Renal Failure	0.80	0.44	1.45	0.47	0.86	0.47	1.58	0.63	0.76	0.41	1.43	0.40	0.90	0.41	1.98	0.79
Left Sided Valvular Heart Disease	0.20	0.02	1.99	0.17	0.27	0.03	2.95	0.29	0.29	0.02	4.09	0.36				
Temperature					1.04	0.87	1.23	0.68	1.04	0.87	1.24	0.69	1.04	0.82	1.33	0.74
Heart Rate					1.01	1.00	1.02	0.02	1.01	1.00	1.02	0.11	1.01	0.99	1.02	0.42
Respiratory Rate					1.03	0.98	1.08	0.22	1.02	0.97	1.07	0.49	1.01	0.94	1.09	0.74
Systolic Blood Pressure					1.00	0.99	1.01	0.86	1.00	0.99	1.01	0.76	1.00	0.99	1.01	0.63
Diastolic Blood Pressure					1.00	0.99	1.02	0.46	1.00	0.99	1.02	0.52	1.00	0.99	1.02	0.82
Oxygen Saturation Level					0.98	0.92	1.04	0.55	0.99	0.93	1.05	0.71	0.95	0.88	1.03	0.21
NIHSS									1.09	1.07	1.12	0.00	1.05	1.01	1.08	0.01
Systolic Blood Pressure at Discharge													0.99	0.98	1.01	0.49
Diastolic Blood Pressure at Discharge													1.02	0.99	1.04	0.18
Ambulatory													0.30	0.17	0.53	0.00

PDD Only		PDD +Vitals		PDD +Vitals + NIHSS		PDD +Vitals + NIHSS + DC Vitals + Ambulatory Status	
Number of Obs	980	Number of Obs	957	Number of Obs	957	Number of Obs	794
LRchi2(27) =	164.73	LRchi2(27) =	175	LRchi2(27) =	237.77	LRchi2(27) =	141.97
Prob > chi2 =	0	Prob > chi2 =	0	Prob > chi2 =	0	Prob > chi2 =	0
Pseudo R2 =	0.1709	Pseudo R2 =	0.1879	Pseudo R2 =	0.2554	Pseudo R2 =	0.2408

Appendix Table J-9: 30-Day Mortality (Limited Variables, Restricted to Observations with Lab Results)

Table J-9: 30-Day Mortality (Limited Variables, Restricted to Observations with Lab Results)																				
Variables	PDD Only				PDD +Vitals				PDD +Vitals + NIHSS				PDD +Vitals + Labs + Stroke Severity				PDD +Vitals + NIHSS + DC Vitals + Ambulatory Status			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Age in Years at Admission	1.05	1.03	1.07	0.00	1.05	1.03	1.08	0.00	1.05	1.03	1.08	0.00	1.05	1.03	1.08	0.00	1.08	1.04	1.13	0.00
Male	0.73	0.46	1.17	0.19	0.70	0.42	1.14	0.15	0.73	0.44	1.22	0.23	0.72	0.40	1.28	0.26	0.78	0.34	1.78	0.55
Rheumatoid Arthritis	0.57	0.15	2.20	0.42	0.48	0.12	1.94	0.30	0.49	0.12	1.97	0.31	0.48	0.11	2.13	0.34	0.80	0.13	4.74	0.80
Psychoses	1.91	0.48	7.51	0.36	3.27	0.79	13.54	0.10	2.86	0.65	12.71	0.17	2.52	0.48	13.32	0.28				
Former TIA	0.92	0.36	2.33	0.85	0.92	0.33	2.59	0.88	0.86	0.29	2.52	0.78	0.87	0.26	2.95	0.82	2.01	0.48	8.41	0.34
Source of Admission--Nursing Home	2.01	0.88	4.59	0.10	1.78	0.74	4.31	0.20	1.76	0.71	4.36	0.22	1.38	0.53	3.62	0.51	1.01	0.29	3.47	0.99
Total Parenteral Nutrition (TPN)	4.76	0.34	65.93	0.25	5.18	0.35	76.15	0.23	7.37	0.47	115.22	0.15	10.36	0.66	163.58	0.10				
Valvular Disease	1.42	0.54	3.71	0.47	0.99	0.32	3.04	0.99	1.25	0.42	3.77	0.69	1.32	0.41	4.25	0.64	1.33	0.30	5.95	0.71
Metastatic Cancer	4.02	0.95	17.00	0.06	5.37	1.11	26.04	0.04	4.82	0.95	24.47	0.06	2.90	0.46	18.15	0.26				
Dysphagia	0.43	0.12	1.57	0.20	0.27	0.06	1.18	0.08	0.29	0.07	1.21	0.09	0.26	0.06	1.16	0.08	0.27	0.02	3.02	0.29
Facial Palsy	0.37	0.14	0.94	0.04	0.33	0.12	0.91	0.03	0.29	0.10	0.83	0.02	0.24	0.08	0.74	0.01	0.23	0.05	1.05	0.06
Hypothyroidism	0.75	0.39	1.42	0.37	0.79	0.40	1.55	0.49	0.76	0.38	1.53	0.45	0.66	0.31	1.38	0.27	0.38	0.13	1.13	0.08
Distance to Medium Volume Hospital	1.04	1.00	1.08	0.05	1.05	1.01	1.09	0.02	1.04	1.00	1.08	0.05	1.04	0.99	1.08	0.09	1.08	1.02	1.14	0.01
Ataxia	0.37	0.11	1.26	0.11	0.27	0.06	1.19	0.08	0.39	0.09	1.74	0.22	0.53	0.12	2.39	0.41	1.15	0.22	6.10	0.87
Decreased Consciousness	7.35	2.47	21.83	0.00	6.04	1.96	18.57	0.00	2.26	0.64	8.03	0.21	2.10	0.53	8.41	0.29	1.33	0.15	11.60	0.80
Distance to High Volume Hospital	0.99	0.97	1.01	0.36	0.99	0.97	1.01	0.41	0.99	0.97	1.02	0.62	1.00	0.98	1.02	0.80	1.00	0.97	1.03	0.94
Non-English Speaking	0.98	0.96	1.01	0.23	0.98	0.96	1.01	0.23	0.98	0.95	1.01	0.13	0.98	0.95	1.01	0.25	0.99	0.95	1.03	0.72
Weight Loss	2.05	0.49	8.60	0.32	1.86	0.43	8.11	0.41	1.93	0.43	8.58	0.39	2.90	0.61	13.67	0.18	2.04	0.17	25.03	0.58
Paralysis	2.06	1.27	3.34	0.00	2.17	1.31	3.59	0.00	1.69	1.00	2.87	0.05	1.83	1.04	3.23	0.04	1.62	0.73	3.57	0.23
Other Neurological Disorders	2.15	1.35	3.43	0.00	2.29	1.40	3.74	0.00	1.81	1.08	3.02	0.02	1.95	1.12	3.39	0.02	3.58	1.67	7.70	0.00
Depression	1.78	0.91	3.49	0.09	1.89	0.94	3.81	0.07	1.95	0.96	3.96	0.07	2.02	0.95	4.32	0.07	1.86	0.67	5.18	0.24

Appendix Table J-9: 30-Day Mortality (Limited Variables, Restricted to Observations with Lab Results)

Table J-9: 30-Day Mortality (Limited Variables, Restricted to Observations with Lab Results)																				
Variables	PDD Only				PDD +Vitals				PDD +Vitals + NIHSS				PDD +Vitals + Labs + Stroke Severity				PDD +Vitals + NIHSS + DC Vitals + Ambulatory Status			
	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|	OR	95% CI		P>|z|
Diabetes without Chronic Complications	1.06	0.62	1.81	0.84	1.10	0.63	1.93	0.74	1.07	0.60	1.92	0.81	0.84	0.42	1.66	0.61	0.75	0.27	2.06	0.58
Diabetes with Chronic Complications	1.04	0.39	2.76	0.94	1.18	0.43	3.23	0.75	1.34	0.48	3.71	0.58	0.97	0.28	3.35	0.97	1.48	0.37	5.88	0.58
Admission Glucose	3.74	1.02	13.74	0.05	3.41	0.89	13.07	0.07	2.98	0.78	11.36	0.11	3.48	0.84	14.32	0.08	7.01	1.34	36.69	0.02
Renal Failure	0.66	0.32	1.37	0.27	0.70	0.33	1.48	0.35	0.55	0.25	1.21	0.14	0.34	0.13	0.91	0.03	0.30	0.08	1.08	0.07
Left Sided Valvular Heart Disease	0.34	0.03	4.30	0.40	0.55	0.04	7.38	0.65	0.49	0.03	8.00	0.62	0.36	0.02	7.96	0.52				
Temperature					1.01	0.81	1.26	0.92	1.05	0.85	1.32	0.64	1.02	0.80	1.29	0.89	0.97	0.69	1.37	0.88
Heart Rate					1.01	1.00	1.02	0.09	1.01	1.00	1.02	0.09	1.01	0.99	1.02	0.25	1.00	0.98	1.02	0.84
Respiratory Rate					0.99	0.93	1.06	0.81	0.97	0.91	1.04	0.42	0.96	0.89	1.04	0.31	0.93	0.83	1.05	0.24
Systolic Blood Pressure					1.00	0.99	1.01	0.64	1.00	0.99	1.01	0.85	1.00	0.99	1.01	0.95	1.01	0.99	1.02	0.49
Diastolic Blood Pressure					1.01	1.00	1.03	0.12	1.01	0.99	1.03	0.19	1.02	1.00	1.03	0.12	1.02	0.99	1.04	0.14
Oxygen Saturation Level					0.98	0.91	1.07	0.69	0.99	0.92	1.07	0.85	0.98	0.90	1.07	0.62	0.92	0.82	1.03	0.14
Hematocrit													0.98	0.93	1.03	0.35	0.96	0.90	1.03	0.29
WBC count													1.11	1.04	1.19	0.00	1.11	1.00	1.23	0.04
Platelet Count													1.00	1.00	1.00	0.72	1.00	1.00	1.01	0.05
First Serum Ceratinine													0.90	0.57	1.44	0.67	1.05	0.93	1.19	0.42
Serum Blood Urea Nitrogen													1.02	0.99	1.05	0.28	1.00	0.97	1.03	0.95
Serum Sodium													0.99	0.93	1.06	0.78	1.08	0.98	1.19	0.11
Blood Glucose													1.00	1.00	1.01	0.60	1.00	1.00	1.01	0.42
NIHSS									1.08	1.05	1.11	0.00	1.08	1.05	1.12	0.00	1.04	0.99	1.09	0.12

Appendix Table J-9: 30-Day Mortality (Limited Variables, Restricted to Observations with Lab Results)

Table J-9: 30-Day Mortality (Limited Variables, Restricted to Observations with Lab Results)																				
Variables	**PDD Only**				**PDD +Vitals**				**PDD +Vitals + NIHSS**				**PDD +Vitals + Labs + Stroke Severity**				**PDD +Vitals + NIHSS + DC Vitals + Ambulatory Status**			
	OR	**95% CI**		**P>|z|**	**OR**	**95% CI**		**P>|z|**	**OR**	**95% CI**		**P>|z|**	**OR**	**95% CI**		**P>|z|**	**OR**	**95% CI**		**P>|z|**
Systolic Blood Pressure at Discharge																	0.98	0.95	1.00	0.05
Diastolic Blood Pressure at Discharge																	1.04	1.00	1.08	0.08
Ambulatory																	0.21	0.10	0.46	0.00
	PDD Only				**PDD +Vitals**				**PDD +Vitals + NIHSS**				**PDD +Vitals + Labs + Stroke Severity**				**PDD +Vitals + NIHSS + DC Vitals + Ambulatory Status**			
	Number of Obs		621		Number of Obs		604		Number of Obs		604		Number of Obs		581		Number of Obs		476	
	LRchi2(27)	=	108.15		LRchi2(27)	=	120.5		LRchi2(27)	=	144.96		LRchi2(27)	=	157.4		LRchi2(27)	=	128.63	
	Prob > chi2	=	0		Prob > chi2	=	0		Prob > chi2	=	0		Prob > chi2	=	0		Prob > chi2	=	0	
	Pseudo R2	=	0.1742		Pseudo R2	=	0.202		Pseudo R2	=	0.243		Pseudo R2	=	0.2777		Pseudo R2	=	0.3493	

Appendix Table J-10: Regression Validation: 30-Day Readmission (Limited Variables)

Table J-10: Regression Validation: 30Day Readmission (Limited Variables)

Variables	PDD Only				PDD + Admit Vitals				PDD + Admit Vitals + DC Vitals and Function				PDD + Admit Vitals + DC Vitals and Function + NIHSS				PDD + Admit Vitals + DC Vitals and Function + NIHSS + Labs			
	Hazard Ratio	95% CI		P>|z|	Hazard Ratio	95% CI		P>|z|	Hazard Ratio	95% CI		P>|z|	Hazard Ratio	95% CI		P>|z|	Hazard Ratio	95% CI		P>|z|
Age in Years at Admission	1.00	0.98	1.01	0.56	1.00	0.98	1.01	0.86	1.00	0.98	1.02	0.89	1.00	0.98	1.02	0.82	0.98	0.96	1.00	0.07
Metastatic Cancer	3.14	1.11	8.89	0.03	2.76	0.84	9.12	0.10	2.06	0.48	8.84	0.33	1.97	0.46	8.47	0.36	1.15	0.15	9.13	0.89
Male	1.23	0.82	1.85	0.32	1.16	0.77	1.75	0.48	1.17	0.76	1.80	0.47	1.16	0.75	1.79	0.49	1.24	0.74	2.09	0.42
Hispanic	0.99	0.54	1.81	0.98	1.02	0.56	1.87	0.95	0.83	0.42	1.61	0.58	0.80	0.41	1.55	0.50	0.75	0.32	1.79	0.52
Black	1.01	0.51	1.98	0.98	1.01	0.51	1.99	0.98	0.98	0.49	1.96	0.96	0.92	0.46	1.85	0.82	0.59	0.26	1.36	0.22
Asian	1.14	0.61	2.11	0.68	1.07	0.56	2.04	0.84	1.15	0.60	2.23	0.67	1.12	0.58	2.17	0.74	0.82	0.38	1.75	0.60
Other Race	0.29	0.04	2.13	0.23	0.31	0.04	2.23	0.24	0.38	0.05	2.75	0.34	0.36	0.05	2.63	0.31	0.76	0.10	5.82	0.79
Recurrent Stroke	1.42	0.82	2.47	0.21	1.35	0.76	2.39	0.30	1.40	0.79	2.49	0.26	1.43	0.80	2.57	0.23	2.12	1.07	4.22	0.03
Hypertension	1.12	0.73	1.73	0.60	1.16	0.74	1.79	0.52	1.18	0.74	1.87	0.49	1.14	0.72	1.82	0.58	1.14	0.65	2.01	0.64
Any Ischemic Heart Disease	0.82	0.51	1.31	0.40	0.83	0.52	1.33	0.44	0.78	0.48	1.27	0.32	0.80	0.49	1.30	0.36	1.01	0.57	1.76	0.98
Source of Admission--Nursing Home	1.71	0.76	3.88	0.20	1.58	0.69	3.63	0.28	1.18	0.48	2.91	0.72	1.13	0.46	2.81	0.79	1.26	0.46	3.42	0.66
Distance to Low Volume Hospital	1.03	1.00	1.05	0.03	1.02	1.00	1.05	0.05	1.02	1.00	1.05	0.05	1.02	1.00	1.05	0.07	1.02	0.99	1.05	0.13
Liver Disease	1.86	0.23	15.00	0.56	1.60	0.19	13.17	0.66	2.11	0.25	18.05	0.50	2.23	0.26	19.21	0.46	1.80	0.18	17.83	0.61
Hyperlipidemia	0.76	0.51	1.12	0.17	0.78	0.53	1.17	0.23	0.92	0.61	1.40	0.71	0.95	0.62	1.44	0.81	1.06	0.64	1.77	0.81
Hypercoagulable state	4.79	0.65	35.47	0.13	4.66	0.63	34.74	0.13	5.07	0.67	38.49	0.12	5.27	0.70	39.94	0.11				
Hemiplegia	0.72	0.47	1.10	0.13	0.76	0.49	1.15	0.19	0.68	0.43	1.07	0.10	0.62	0.39	0.99	0.04	0.66	0.38	1.17	0.16
Obesity	0.54	0.19	1.53	0.25	0.56	0.20	1.60	0.28	0.57	0.20	1.64	0.30	0.58	0.20	1.66	0.31	0.63	0.20	1.98	0.43
Valvular Disease	2.27	1.20	4.30	0.01	2.23	1.17	4.25	0.01	2.15	1.12	4.15	0.02	2.06	1.06	4.01	0.03	1.19	0.50	2.80	0.70
Apraxia	4.85	1.13	20.80	0.03	5.27	1.22	22.85	0.03	6.06	1.36	26.96	0.02	6.44	1.44	28.76	0.02	6.30	0.78	50.68	0.08
Fluid and Electrolyte Disorders	1.54	0.90	2.64	0.11	1.45	0.84	2.50	0.18	1.41	0.80	2.48	0.23	1.40	0.80	2.47	0.24	1.10	0.53	2.27	0.81
Anticoagulation	0.30	0.07	1.32	0.11	0.25	0.06	1.13	0.07	0.22	0.04	1.05	0.06	0.21	0.04	1.04	0.06	0.39	0.05	2.91	0.36

Appendix Table J-10: Regression Validation: 30-Day Readmission (Limited Variables)

Table J-10: Regression Validation: 30Day Readmission (Limited Variables)

Variables	PDD Only				PDD + Admit Vitals				PDD + Admit Vitals + DC Vitals and Function				PDD + Admit Vitals + DC Vitals and Function + NIHSS				PDD + Admit Vitals + DC Vitals and Function + NIHSS + Labs			
	Hazard Ratio	95% CI		P>|z|	Hazard Ratio	95% CI		P>|z|	Hazard Ratio	95% CI		P>|z|	Hazard Ratio	95% CI		P>|z|	Hazard Ratio	95% CI		P>|z|
Rheumatoid Arthritis	0.50	0.12	2.12	0.35	0.51	0.12	2.19	0.37	0.61	0.14	2.63	0.51	0.59	0.14	2.55	0.48	0.57	0.13	2.51	0.46
Bleeding Disorders (excluding platelet disorders)	4.04	0.90	18.09	0.07	3.85	0.84	17.68	0.08	6.53	1.27	33.42	0.02	7.90	1.52	41.07	0.01				
Renal Failure	2.49	1.49	4.16	0.00	2.65	1.58	4.47	0.00	2.61	1.51	4.52	0.00	2.48	1.43	4.32	0.00	1.77	0.88	3.56	0.11
Depression	2.04	1.14	3.66	0.02	2.01	1.12	3.59	0.02	2.12	1.16	3.88	0.01	2.06	1.13	3.77	0.02	2.05	1.05	4.01	0.04
Distance to High Volume Hospital	0.99	0.98	1.01	0.44	0.99	0.98	1.01	0.41	0.99	0.97	1.01	0.26	0.99	0.97	1.01	0.23	0.98	0.96	1.01	0.15
Temperature					0.91	0.74	1.11	0.35	0.95	0.77	1.18	0.67	0.97	0.78	1.20	0.77	1.00	0.78	1.28	0.98
Heart Rate					1.00	0.99	1.02	0.38	1.01	1.00	1.02	0.21	1.01	1.00	1.02	0.22	1.01	0.99	1.02	0.39
Respiratory Rate					0.99	0.94	1.05	0.83	1.01	0.96	1.07	0.65	1.01	0.96	1.07	0.63	1.03	0.96	1.09	0.43
Systolic Blood Pressure					0.99	0.98	1.00	0.07	0.99	0.98	1.00	0.10	0.99	0.98	1.00	0.11	0.99	0.98	1.00	0.21
Diastolic Blood Pressure					1.01	0.99	1.02	0.44	1.00	0.99	1.01	0.96	1.00	0.99	1.01	0.94	1.00	0.98	1.02	0.91
Oxygen Saturation Level					1.03	0.95	1.11	0.50	1.05	0.97	1.14	0.24	1.05	0.97	1.14	0.20	1.07	0.97	1.18	0.20
Systolic Blood Pressure at Discharge									1.00	0.98	1.01	0.60	1.00	0.98	1.01	0.57	1.00	0.99	1.01	0.96
Diastolic Blood Pressure at Discharge									1.01	0.99	1.03	0.38	1.01	0.99	1.03	0.30	1.01	0.98	1.03	0.55
Ambulatory									0.73	0.46	1.14	0.16	0.79	0.50	1.25	0.31	0.54	0.31	0.93	0.03
NIHSS													1.03	1.00	1.06	0.06	1.04	1.00	1.08	0.07
Hematocrit																	0.96	0.93	1.00	0.08
WBC count																	0.98	0.91	1.06	0.70
Platelet Count																	1.00	1.00	1.00	0.76

Appendix Table J-10: Regression Validation: 30-Day Readmission (Limited Variables)

Table J-10: Regression Validation: 30Day Readmission (Limited Variables)

Variables	PDD Only				PDD + Admit Vitals				PDD + Admit Vitals + DC Vitals and Function				PDD + Admit Vitals + DC Vitals and Function + NIHSS				PDD + Admit Vitals + DC Vitals and Function + NIHSS + Labs			
	Hazard Ratio	95% CI		P>|z|	Hazard Ratio	95% CI		P>|z|	Hazard Ratio	95% CI		P>|z|	Hazard Ratio	95% CI		P>|z|	Hazard Ratio	95% CI		P>|z|
First Serum Ceratinine																	0.97	0.79	1.20	0.78
Serum Blood Urea Nitrogen																	1.01	0.99	1.03	0.43
Serum Sodium																	0.99	0.94	1.06	0.86
Blood Glucose																	1.00	1.00	1.00	0.93
	PDD Only				PDD + Admit Vitals				PDD + Admit Vitals + DC Vitals and Function				PDD + Admit Vitals + DC Vitals and Function + NIHSS				PDD + Admit Vitals + DC Vitals and Function + NIHSS + Labs			
	Number of obs	895			Number of obs	878			Number of obs	798			Number of obs	798			Number of obs	502		
	LRchi2(26)	54.03			LRchi2(26)	56.69			LRchi2(26)	61.17			LRchi2(26)	64.33			LRchi2(26)	52.44		
	Prob > chi2	0.001			Prob > chi2	0.0046			Prob > chi2	0.004			Prob > chi2	0.003			Prob > chi2	0.1086		

Appendix K:
C-Statistics for Validation Regression Models

Appendix K: C-Statistics for Validation Regression Models

Hospital Death	All Validation Set Observations					Validation Set Observations with Lab Extractions				
	N	C-Stat	SE	95% CI		N	C-Stat	SE	95% CI	
PDD	865	0.8506	0.0210	0.8095	0.8917	491	0.8645	0.0282	0.8093	0.9197
PDD + Vitals	865	0.8723	0.0180	0.8370	0.9076	491	0.8772	0.0252	0.8277	0.9266
PDD + Vitals + NIHSS	865	0.9187	0.0147	0.8898	0.9475	491	0.9146	0.0208	0.8739	0.9553
PDD + Vitals + NIHSS + Labs						491	0.9438	0.0179	0.9087	0.9789
Overall agreement of C-stats	chi2(2) = 15.51		Prob>chi2 = 0.0004			chi2(3) = 14.00		Prob>chi2 = 0.0029		

30 Day Death	All Validation Set Observations					Validation Set Observations with Lab Extractions				
	N	C-Stat	SE	95% CI		N	C-Stat	SE	95% CI	
PDD	725	0.8012	0.0237	0.7546	0.8477	429	0.8341	0.0288	0.7776	0.8906
PDD + Vitals	725	0.8092	0.0226	0.7650	0.8534	429	0.8398	0.0274	0.7860	0.8936
PDD + Vitals + NIHSS	725	0.8246	0.0221	0.7814	0.8679	429	0.8596	0.0260	0.8088	0.9105
PDD + Vitals + NIHSS + Ambulatory	725	0.8579	0.0204	0.8178	0.8979	429	0.8720	0.0254	0.8223	0.9218
PDD + Vitals + NIHSS + Ambulatory + Labs						429	0.9030	0.0220	0.8598	0.9461
Overall agreement of C-stats	chi2(3) = 11.44		Prob>chi2 = 0.0096			chi2(4) = 15.74		Prob>chi2 = 0.0034		

30 Day Death (Excluding Hospital Deaths)	All Validation Set Observations					Validation Set Observations with Lab Extractions				
	N	C-Stat	SE	95% CI		N	C-Stat	SE	95% CI	
PDD	709	0.8168	0.0239	0.7700	0.8636	422	0.8595	0.0269	0.8068	0.9122
PDD + Vitals	709	0.8217	0.0241	0.7744	0.8690	422	0.8672	0.0271	0.8141	0.9203
PDD + Vitals + NIHSS	709	0.8410	0.0232	0.7955	0.8865	422	0.8799	0.0267	0.8276	0.9321
PDD + Vitals + NIHSS + Ambulatory	709	0.8601	0.0221	0.8167	0.9035	422	0.9058	0.0244	0.8579	0.9537
PDD + Vitals + NIHSS + Ambulatory + Labs						422	0.9126	0.0221	0.8693	0.9559
Overall agreement of C-stats	chi2(3) = 8.98		Prob>chi2 = 0.0296			chi2(4) = 14.21		Prob>chi2 = 0.0067		

Appendix L: Validation Results: Impact of Quality Care, Regression Models

Table L-1: Regression Validation Quality -30 Day Death
Table L-2: Regression Validation Quality -30 Day Death (excluding hospital deaths)
Table L-3: Regression Validation Quality- All Indicator Variables
Table L-4: Examine Full Models for the Other Outcomes Using Logistic Regression
Table L-5: Regression Validation Quality-30 day Readmission

Models:

1. Limited- PDD only
2. Intermediate- PDD + Vitals + Labs (if available)
3. Full- PDD + Vitals + Additional Clinical Measures + Labs (if available)

Appendix Table L-1: Regression Validation Quality -30 Day Death

Table L-1: Regression Validation Quality -30 Day Death																				
Variables	PDD only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status				PDD Variable + Vitals + Labs			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Neurology consult	0.78	0.43	1.40	0.40	0.66	0.36	1.21	0.18	0.60	0.32	1.13	0.12	0.59	0.29	1.18	0.13	0.32	0.10	0.97	0.04
OT ordered	0.80	0.41	1.56	0.50	0.83	0.41	1.68	0.61	0.76	0.37	1.56	0.46	0.73	0.34	1.57	0.42	0.59	0.17	2.06	0.41
PT ordered	0.34	0.16	0.73	0.01	0.36	0.16	0.80	0.01	0.37	0.16	0.86	0.02	0.50	0.21	1.21	0.13	0.15	0.04	0.64	0.01
Speech ordered	1.13	0.57	2.25	0.73	0.97	0.48	1.98	0.94	0.96	0.47	1.96	0.92	0.97	0.45	2.11	0.95	0.69	0.22	2.17	0.53
Swallow evaluation	1.72	0.91	3.25	0.10	1.92	0.98	3.73	0.06	1.73	0.88	3.37	0.11	1.29	0.63	2.65	0.49	1.03	0.35	3.04	0.95
Prevention of Blood Clot	0.83	0.43	1.59	0.57	0.80	0.40	1.58	0.52	0.81	0.40	1.62	0.55	0.94	0.45	1.96	0.86	0.39	0.11	1.34	0.13
Brain Scan at Admission	1.47	0.14	15.53	0.75	1.53	0.14	16.69	0.73	1.03	0.09	11.66	0.98	1.08	0.09	13.82	0.95	0.18	0.01	4.50	0.30
Echocardiogram	1.36	0.74	2.50	0.32	1.13	0.60	2.16	0.70	1.16	0.60	2.25	0.66	1.31	0.65	2.66	0.45	0.95	0.32	2.88	0.93
Carotid Ultrasound	0.33	0.18	0.59	0.00	0.36	0.19	0.66	0.00	0.37	0.20	0.70	0.00	0.36	0.18	0.71	0.00	0.47	0.17	1.29	0.14
Age in Years at Admission	1.05	1.02	1.07	0.00	1.04	1.02	1.07	0.00	1.04	1.01	1.07	0.00	1.04	1.01	1.08	0.01	1.11	1.05	1.17	0.00
Male	0.56	0.32	0.99	0.05	0.54	0.30	0.98	0.04	0.55	0.30	1.01	0.05	0.48	0.25	0.94	0.03	1.15	0.42	3.13	0.79
Hispanic	1.04	0.40	2.67	0.94	0.79	0.29	2.16	0.65	0.75	0.26	2.16	0.60	0.85	0.29	2.48	0.76	0.28	0.05	1.74	0.17
Black	0.92	0.30	2.83	0.89	0.83	0.26	2.63	0.75	0.87	0.26	2.97	0.83	0.86	0.24	3.10	0.82	2.41	0.38	15.15	0.35
Asian	1.54	0.57	4.16	0.40	1.80	0.64	5.05	0.26	1.82	0.64	5.19	0.26	1.60	0.49	5.28	0.44	4.27	0.95	19.27	0.06
Source of Admission--Nursing Home	1.52	0.62	3.71	0.36	1.62	0.64	4.15	0.31	1.52	0.58	3.98	0.40	1.19	0.43	3.34	0.74	3.17	0.58	17.30	0.18
Aphasia	1.24	0.52	2.96	0.63	1.30	0.53	3.19	0.57	1.20	0.48	3.02	0.70	1.38	0.52	3.65	0.51	0.76	0.16	3.67	0.73
Dysathria	1.42	0.73	2.79	0.30	1.51	0.74	3.05	0.26	1.41	0.68	2.89	0.35	1.73	0.79	3.76	0.17	3.06	0.93	10.05	0.07
Dysphagia	0.53	0.09	3.05	0.47	0.32	0.03	3.13	0.33	0.36	0.04	3.58	0.38	0.62	0.07	5.66	0.67	2.41	0.16	35.36	0.52
Facial Palsy	0.62	0.25	1.58	0.32	0.65	0.25	1.68	0.37	0.61	0.23	1.60	0.32	0.45	0.15	1.35	0.15	0.41	0.07	2.29	0.31
Hemiplegia	1.49	0.54	4.09	0.44	1.37	0.47	3.99	0.56	0.99	0.33	2.97	0.99	0.67	0.21	2.16	0.50	0.73	0.10	5.30	0.75
Other Paralysis	1.79	0.14	23.20	0.66	1.51	0.11	20.05	0.75	1.32	0.10	17.35	0.83	0.88	0.06	13.07	0.93	1.61	0.03	89.69	0.82
Ataxia	0.61	0.16	2.39	0.48	0.41	0.08	2.05	0.28	0.57	0.11	2.81	0.49	0.58	0.11	2.95	0.51	0.84	0.11	6.50	0.87
Decreased Consciousness	1.49	0.38	5.88	0.57	1.16	0.28	4.76	0.84	0.54	0.11	2.60	0.44	0.84	0.16	4.34	0.84	0.68	0.05	9.56	0.77
Seizure or Seizure Disorder	2.06	0.74	5.74	0.17	1.78	0.61	5.23	0.29	1.30	0.41	4.17	0.66	1.22	0.35	4.17	0.76	2.02	0.26	15.58	0.50

Appendix Table L-1: Regression Validation Quality -30 Day Death

Table L-1: Regression Validation Quality -30 Day Death																				
Variables	PDD only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status				PDD Variable + Vitals + Labs			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Other Cerebral Ischemic Signs or Symptoms	0.93	0.05	16.93	0.96	1.20	0.07	21.75	0.90	0.60	0.02	15.77	0.76	3.40	0.09	124.13	0.51				
Admission Glucose	6.38	1.36	29.87	0.02	5.67	1.20	26.78	0.03	5.64	1.21	26.32	0.03	4.13	0.82	20.87	0.09	106.25	6.99	1615.28	0.00
Acute MI	0.81	0.16	4.05	0.79	0.86	0.17	4.41	0.85	0.73	0.13	3.94	0.71	0.64	0.10	3.96	0.63	0.80	0.00	215.51	0.94
Atrial Fibrillation	1.31	0.69	2.47	0.41	1.26	0.64	2.48	0.50	1.12	0.56	2.24	0.74	0.81	0.38	1.73	0.59	2.67	0.74	9.65	0.13
History of Congestive Heart Failure	0.99	0.48	2.08	0.99	1.01	0.46	2.22	0.98	1.02	0.45	2.31	0.96	0.92	0.38	2.27	0.86	1.27	0.28	5.83	0.76
Any Ischemic Heart Disease	1.46	0.78	2.75	0.24	1.40	0.72	2.72	0.32	1.60	0.81	3.15	0.17	1.27	0.60	2.66	0.53	2.13	0.64	7.09	0.22
Hyperlipidemia	0.69	0.39	1.22	0.21	0.70	0.39	1.27	0.24	0.73	0.40	1.33	0.30	0.78	0.41	1.50	0.46	1.13	0.40	3.15	0.82
Dementia or Alzheimer's Disease	1.55	0.61	3.95	0.36	1.56	0.60	4.07	0.37	2.08	0.79	5.52	0.14	1.76	0.63	4.94	0.28	1.76	0.28	10.93	0.55
Bleeding Disorders (excluding platelet disorders)	2.10	0.06	70.94	0.68	2.30	0.06	86.40	0.65	2.70	0.07	111.52	0.60					1.29	0.00	25643.87	0.96
Anticoagulation	1.21	0.35	4.18	0.76	1.16	0.32	4.15	0.82	1.00	0.27	3.72	1.00	1.01	0.23	4.39	0.99	1.44	0.15	14.08	0.75
Valvular Disease	2.13	0.76	5.96	0.15	1.56	0.49	4.96	0.46	1.55	0.48	4.98	0.46	1.06	0.27	4.12	0.93	1.37	0.13	13.95	0.79
Pulmonary Circulation Disease	0.49	0.05	4.88	0.55	0.66	0.07	6.64	0.73	0.62	0.06	6.11	0.69	0.65	0.06	6.81	0.72				
Peripheral Vascular Disease	1.69	0.65	4.40	0.28	1.67	0.60	4.66	0.33	1.53	0.53	4.42	0.43	2.29	0.78	6.77	0.13	0.11	0.01	1.01	0.05
Paralysis	2.01	0.73	5.50	0.18	2.22	0.77	6.40	0.14	2.46	0.83	7.27	0.11	2.40	0.77	7.48	0.13	9.54	1.20	75.57	0.03
Other Neurological Disorders	1.07	0.45	2.58	0.87	1.25	0.51	3.08	0.63	1.00	0.39	2.53	0.99	1.05	0.39	2.79	0.93	7.41	1.51	36.43	0.01
Chronic Pulmonary Disease	1.23	0.49	3.06	0.66	1.01	0.38	2.67	0.99	1.04	0.38	2.83	0.94	0.95	0.32	2.76	0.92	0.83	0.17	3.98	0.81
Diabetes Mellitus	0.73	0.35	1.52	0.40	0.70	0.33	1.49	0.35	0.66	0.31	1.43	0.30	0.71	0.31	1.62	0.42	0.40	0.10	1.54	0.18
Diabetes Mellitus with Complications	2.72	0.93	7.97	0.07	2.70	0.88	8.23	0.08	3.10	1.00	9.57	0.05	1.96	0.58	6.57	0.28	5.39	0.70	41.71	0.11

Appendix Table L-1: Regression Validation Quality -30 Day Death

Table L-1: Regression Validation Quality -30 Day Death																				
Variables	PDD only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status				PDD Variable + Vitals + Labs			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Hypothyroidism	0.65	0.31	1.36	0.25	0.72	0.33	1.57	0.41	0.70	0.31	1.58	0.40	0.62	0.25	1.51	0.29	0.80	0.23	2.84	0.73
Renal Failure	0.62	0.25	1.51	0.29	0.67	0.26	1.72	0.41	0.62	0.24	1.59	0.32	0.61	0.23	1.68	0.34	0.37	0.07	2.06	0.26
Liver Disease	5.94	0.16	225.46	0.34	6.83	0.17	266.79	0.30	10.35	0.26	404.90	0.21	15.18	0.36	636.68	0.15				
Lymphoma	6.98	0.14	339.69	0.33	9.93	0.19	526.31	0.26	13.82	0.24	792.04	0.20								
Metastatic Cancer	1.53	0.21	11.16	0.67	1.85	0.23	15.02	0.56	1.25	0.13	11.82	0.85	0.42	0.02	8.03	0.56	0.48	0.02	15.22	0.68
Solid tumor without Metastasis	0.96	0.21	4.49	0.96	1.13	0.23	5.48	0.88	0.88	0.18	4.42	0.88	1.02	0.19	5.45	0.98	0.44	0.03	5.56	0.53
Rheumatoid Arthritis	0.76	0.15	3.99	0.75	0.61	0.11	3.38	0.58	0.60	0.11	3.26	0.55	0.65	0.11	3.74	0.63	1.33	0.12	14.91	0.82
Obesity	1.20	0.33	4.33	0.78	1.37	0.37	5.06	0.64	1.38	0.36	5.25	0.64	1.78	0.43	7.46	0.43	6.73	0.69	65.38	0.10
Weight Loss	2.42	0.43	13.68	0.32	1.95	0.31	12.44	0.48	1.56	0.23	10.75	0.65	1.48	0.15	14.35	0.73	17.06	1.20	241.91	0.04
Fluid and Electrolyte Disorders	1.34	0.62	2.86	0.46	1.18	0.52	2.63	0.69	1.18	0.52	2.68	0.70	1.24	0.51	3.02	0.63	0.86	0.23	3.21	0.82
Chronic Blood Loss Anemia	4.21	0.27	66.33	0.31	4.29	0.26	71.53	0.31	4.72	0.28	79.54	0.28	6.52	0.33	130.77	0.22	33.83	0.63	1815.85	0.08
Deficiency Anemias	0.98	0.43	2.25	0.97	1.02	0.42	2.44	0.97	1.01	0.42	2.46	0.98	1.24	0.48	3.25	0.66	0.43	0.06	2.92	0.39
Alcohol Abuse	0.21	0.01	5.50	0.35	0.22	0.01	5.61	0.36	0.20	0.01	5.81	0.35	0.21	0.01	6.86	0.38				
Drug Abuse	1.21	0.08	17.24	0.89	1.33	0.10	17.92	0.83	1.30	0.09	19.81	0.85					3.47	0.07	168.55	0.53
Psychoses	2.15	0.43	10.69	0.35	2.53	0.45	14.33	0.29	1.85	0.30	11.25	0.50	3.16	0.45	22.02	0.25	0.40	0.01	15.55	0.62
Depression	2.03	0.97	4.28	0.06	2.13	0.99	4.58	0.05	1.98	0.90	4.33	0.09	1.49	0.61	3.64	0.38	5.03	1.38	18.30	0.01
Hypertension	0.93	0.51	1.68	0.80	0.85	0.46	1.59	0.62	0.82	0.43	1.54	0.53	0.81	0.41	1.60	0.55	0.75	0.24	2.29	0.61
Current Smoker	0.70	0.26	1.84	0.47	0.74	0.28	1.99	0.55	0.73	0.27	2.00	0.54	0.89	0.31	2.56	0.84	0.19	0.03	1.40	0.10
History of Falls	0.74	0.16	3.36	0.70	0.75	0.16	3.53	0.72	1.01	0.21	4.79	0.99	0.91	0.17	4.98	0.92	0.48	0.02	13.48	0.66
Recurrent Stroke	1.10	0.47	2.57	0.83	1.22	0.51	2.91	0.65	1.32	0.55	3.15	0.53	1.40	0.54	3.60	0.49	0.64	0.16	2.54	0.53
Former TIA	0.78	0.24	2.55	0.69	0.83	0.24	2.83	0.76	0.59	0.16	2.18	0.43	0.84	0.22	3.18	0.80	0.70	0.09	5.48	0.73
Non-English Speaking	0.98	0.93	1.03	0.36	0.98	0.93	1.03	0.45	0.97	0.92	1.02	0.29	0.99	0.94	1.05	0.86	0.99	0.90	1.08	0.75
<200% Poverty	1.00	0.97	1.02	0.77	0.99	0.97	1.02	0.66	1.00	0.97	1.03	0.82	0.99	0.96	1.02	0.59	0.98	0.92	1.03	0.42
Rural	1.42	0.41	4.92	0.58	1.33	0.37	4.71	0.66	1.34	0.37	4.80	0.65	1.29	0.33	4.98	0.72	6.08	0.55	67.38	0.14
Distance to High Volume Hospital	0.98	0.96	1.01	0.21	0.98	0.95	1.01	0.17	0.98	0.95	1.01	0.13	0.98	0.95	1.01	0.17	0.96	0.92	1.01	0.12

Appendix Table L-1: Regression Validation Quality -30 Day Death

Table L-1: Regression Validation Quality -30 Day Death

Variables	PDD only				PDD + Vitals				PDD + Vitals + NIHSS				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status				PDD Variable + Vitals + Labs			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Distance to Medium Volume Hospital	1.02	0.98	1.06	0.42	1.02	0.98	1.07	0.23	1.02	0.98	1.07	0.24	1.03	0.99	1.08	0.14	1.10	1.02	1.19	0.01
Distance to Low Volume Hospital	1.01	0.97	1.04	0.75	1.00	0.97	1.04	0.82	1.00	0.96	1.04	0.99	1.00	0.96	1.04	0.96	1.00	0.93	1.07	0.91
Temperature					0.99	0.77	1.27	0.95	1.01	0.78	1.31	0.92	0.94	0.71	1.23	0.63	0.75	0.47	1.20	0.23
Heart Rate					1.00	0.99	1.02	0.57	1.00	0.99	1.02	0.74	1.00	0.98	1.01	0.92	1.01	0.98	1.04	0.50
Respiratory Rate					1.03	0.97	1.10	0.31	1.03	0.96	1.10	0.43	1.02	0.95	1.10	0.56	0.95	0.84	1.09	0.46
Systolic Blood Pressure					1.00	0.99	1.01	0.62	1.00	0.99	1.02	0.48	1.01	0.99	1.02	0.25	1.01	1.00	1.03	0.13
Diastolic Blood Pressure					1.01	0.99	1.03	0.50	1.00	0.98	1.02	0.89	1.00	0.98	1.02	0.71	1.01	0.98	1.04	0.51
Oxygen Saturation Level					0.99	0.91	1.08	0.81	0.99	0.90	1.08	0.78	0.97	0.88	1.06	0.52	0.90	0.78	1.05	0.19
NIHSS									1.09	1.04	1.13	0.00	1.07	1.03	1.12	0.00	1.05	0.99	1.12	0.11
Systolic Blood Pressure at Discharge													0.99	0.97	1.01	0.37				
Diastolic Blood Pressure at Discharge													1.02	0.99	1.05	0.13				
Ambulatory													0.30	0.15	0.59	0.00				
Hematocrit																	0.93	0.83	1.03	0.15
White Blood Count																	0.95	0.82	1.09	0.48
Platelet Count																	1.01	1.00	1.02	0.00
First Serum Creatinine																	1.04	0.88	1.24	0.63
Blood Urea Nitrogen																	1.01	0.97	1.05	0.55
Serum Sodium																	1.02	0.90	1.16	0.78
Blood Glucose																	1.00	1.00	1.01	0.37

Appendix Table L-1: Regression Validation Quality -30 Day Death

	PDD only		PDD + Vitals		PDD + Vitals + NIHSS		PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status		PDD Variable + Vitals + Labs	
	Number of obs =	805	Number of obs =	788	Number of obs =	788	Number of obs =	709	Number of obs =	471
	LR chi2(69) =	178.42	LR chi2(75) =	183.94	LR chi2(76) =	200.43	LR chi2(76) =	177.28	LR chi2(78) =	192.55
	Prob> chi2 =	0	Prob> chi2 =	0	Prob> chi2 =	0	Prob> chi2 =	0	Prob> chi2 =	0
	Pseudo R2 =	0.2828	Pseudo R2 =	0.2992	Pseudo R2 =	0.326	Pseudo R2 =	0.3262	Pseudo R2 =	0.4997

Appendix Table L-2: Regression Validation Quality -30 Day Death (excluding hospital deaths)

Table L-2: Regression Validation Quality -30 Day Death (excluding hospital deaths)																				
Variables	Table: PDD only				Table: PDD plus Vitals				PDD plus Vitals plus NIHSS				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status				PDD Variable plus Vitals plus Labs			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Quality Score Acute	0.98	0.97	0.99	0.00	0.98	0.97	0.99	0.01	0.98	0.96	0.99	0.00	0.98	0.96	0.99	0.01	0.94	0.92	0.97	0.00
Age in Years at Admission	1.05	1.02	1.08	0.00	1.05	1.02	1.08	0.01	1.05	1.02	1.07	0.00	1.04	1.01	1.07	0.02	1.10	1.05	1.16	0.00
Male	0.56	0.32	0.96	0.04	0.54	0.30	0.95	0.16	0.55	0.30	0.98	0.04	0.45	0.23	0.87	0.15	0.96	0.37	2.46	0.93
Hispanic	1.21	0.49	3.03	0.68	0.95	0.36	2.52	0.47	0.85	0.30	2.40	0.76	1.03	0.36	2.94	0.55	0.34	0.06	1.99	0.23
Black	0.98	0.33	2.91	0.97	0.90	0.29	2.79	0.52	0.96	0.29	3.21	0.95	0.98	0.28	3.46	0.63	1.92	0.32	11.47	0.47
Asian	1.62	0.63	4.18	0.32	1.75	0.65	4.67	0.88	1.80	0.65	4.95	0.26	1.72	0.54	5.44	1.01	4.58	1.14	18.41	0.03
Source of Admission--Nursing Home	1.89	0.81	4.40	0.14	2.09	0.85	5.11	0.95	1.91	0.76	4.79	0.17	1.48	0.56	3.93	0.74	2.41	0.51	11.39	0.27
Aphasia	1.17	0.51	2.66	0.71	1.20	0.51	2.83	0.53	1.18	0.49	2.84	0.72	1.31	0.51	3.36	0.63	0.76	0.18	3.17	0.71
Dysathria	1.48	0.77	2.83	0.24	1.59	0.81	3.13	0.55	1.45	0.72	2.90	0.29	1.83	0.86	3.89	0.70	2.94	0.93	9.31	0.07
Dysphagia	0.70	0.13	3.83	0.68	0.34	0.04	3.26	0.39	0.42	0.05	3.83	0.44	0.60	0.07	5.48	0.68	1.74	0.14	21.30	0.66
Facial Palsy	0.72	0.30	1.76	0.47	0.73	0.29	1.83	0.34	0.69	0.27	1.76	0.44	0.50	0.17	1.46	0.27	0.48	0.10	2.38	0.37
Hemiplegia	1.29	0.49	3.36	0.60	1.30	0.47	3.55	0.67	0.94	0.33	2.66	0.90	0.60	0.20	1.82	0.34	0.54	0.08	3.45	0.51
Other Paralysis	1.19	0.10	14.58	0.89	1.18	0.09	14.58	1.51	1.07	0.09	13.06	0.96	0.72	0.05	9.96	0.96	1.42	0.03	61.66	0.86
Ataxia	0.41	0.11	1.52	0.18	0.27	0.06	1.30	0.22	0.40	0.08	1.92	0.25	0.41	0.08	2.08	0.34	0.45	0.07	3.03	0.41
Decreased Consciousness	1.95	0.51	7.45	0.33	1.60	0.39	6.49	1.14	0.67	0.15	3.10	0.61	0.97	0.20	4.75	0.79	0.80	0.07	9.70	0.86
Seizure or Seizure Disorder	2.03	0.75	5.51	0.17	1.80	0.63	5.19	0.97	1.31	0.42	4.07	0.64	1.18	0.36	3.89	0.72	2.10	0.30	14.73	0.46
Other Cerebral Ischemic Signs or Symptoms	0.67	0.04	11.59	0.78	0.79	0.05	13.31	1.13	0.40	0.02	10.14	0.58	2.37	0.08	72.83	4.14				
Admission Glucose	6.09	1.47	25.29	0.01	5.57	1.31	23.67	4.11	5.45	1.26	23.50	0.02	4.05	0.86	19.13	3.21	57.00	4.74	686.17	0.00
Acute MI	1.33	0.28	6.37	0.72	1.37	0.27	6.90	1.13	1.09	0.21	5.72	0.92	0.91	0.15	5.51	0.84	0.99	0.01	130.86	1.00
Atrial Fibrillation	1.29	0.70	2.36	0.41	1.18	0.62	2.25	0.39	1.05	0.54	2.04	0.88	0.83	0.40	1.73	0.31	1.77	0.58	5.40	0.32
History of Congestive Heart Failure	1.05	0.53	2.09	0.89	1.03	0.49	2.17	0.39	1.05	0.48	2.28	0.90	0.89	0.38	2.12	0.39	1.42	0.37	5.43	0.60

Appendix Table L-2: Regression Validation Quality -30 Day Death (excluding hospital deaths)

Table L-2: Regression Validation Quality -30 Day Death (excluding hospital deaths)																				
Variables	Table: PDD only				Table: PDD plus Vitals				PDD plus Vitals plus NIHSS				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status				PDD Variable plus Vitals plus Labs			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Any Ischemic Heart Disease	1.40	0.76	2.55	0.28	1.33	0.71	2.49	0.43	1.50	0.78	2.87	0.22	1.19	0.58	2.45	0.44	2.01	0.65	6.22	0.22
Hyperlipidemia	0.64	0.37	1.10	0.10	0.66	0.37	1.16	0.19	0.68	0.38	1.22	0.20	0.74	0.40	1.39	0.24	1.11	0.42	2.97	0.83
Dementia or Alzheimer's Disease	1.47	0.61	3.49	0.39	1.35	0.55	3.32	0.62	1.92	0.76	4.82	0.17	1.87	0.70	4.96	0.93	1.43	0.27	7.62	0.68
Bleeding Disorders (excluding platelet disorders)	1.18	0.05	30.22	0.92	1.32	0.04	39.78	2.29	1.69	0.05	55.61	0.77					1.57	0.00	14841.19	0.92
Anticoagulation	1.09	0.35	3.44	0.88	1.19	0.36	3.89	0.72	1.00	0.29	3.47	1.00	0.93	0.23	3.77	0.66	1.27	0.16	9.92	0.82
Valvular Disease	1.73	0.64	4.71	0.28	1.29	0.41	4.07	0.76	1.27	0.40	4.09	0.68	0.92	0.24	3.58	0.64	1.30	0.15	11.12	0.81
Pulmonary Circulation Disease	0.54	0.06	5.26	0.60	0.62	0.06	6.13	0.72	0.61	0.06	5.90	0.67	0.73	0.07	7.64	0.88				
Peripheral Vascular Disease	1.37	0.55	3.41	0.50	1.28	0.48	3.39	0.64	1.22	0.44	3.34	0.70	1.99	0.71	5.55	1.04	0.11	0.01	0.95	0.04
Paralysis	2.26	0.86	5.94	0.10	2.43	0.88	6.67	1.25	2.58	0.91	7.35	0.08	2.46	0.82	7.36	1.38	9.00	1.37	59.09	0.02
Other Neurological Disorders	1.24	0.55	2.83	0.61	1.49	0.63	3.54	0.66	1.10	0.45	2.69	0.83	1.10	0.43	2.83	0.53	7.34	1.70	31.82	0.01
Chronic Pulmonary Disease	1.14	0.47	2.77	0.78	0.94	0.36	2.44	0.46	0.98	0.37	2.61	0.96	0.93	0.33	2.62	0.49	0.77	0.17	3.49	0.74
Diabetes Mellitus	0.70	0.35	1.43	0.33	0.72	0.35	1.49	0.27	0.66	0.31	1.40	0.28	0.69	0.31	1.53	0.28	0.41	0.11	1.50	0.18
Diabetes Mellitus with Complications	2.42	0.90	6.53	0.08	2.40	0.85	6.75	1.27	2.73	0.95	7.79	0.06	1.71	0.53	5.47	1.01	2.94	0.48	17.84	0.24
Hypothyroidism	0.82	0.41	1.65	0.58	0.86	0.41	1.81	0.33	0.81	0.37	1.76	0.59	0.73	0.31	1.73	0.32	0.80	0.24	2.71	0.72
Renal Failure	0.68	0.29	1.60	0.37	0.79	0.32	1.93	0.36	0.72	0.30	1.77	0.48	0.67	0.25	1.78	0.33	0.43	0.09	2.15	0.31
Liver Disease	10.43	0.33	332.98	0.19	11.43	0.36	365.80	20.21	14.08	0.43	463.10	0.14	13.47	0.39	467.76	24.38				
Lymphoma	6.44	0.13	326.62	0.35	9.50	0.17	517.37	19.37	14.62	0.26	828.57	0.19								
Metastatic Cancer	1.62	0.24	11.10	0.62	2.20	0.28	17.02	2.30	1.39	0.16	12.52	0.77	0.47	0.03	8.21	0.68	0.52	0.02	17.63	0.72
Solid tumor without Metastasis	1.00	0.22	4.44	1.00	1.21	0.26	5.58	0.94	0.96	0.20	4.56	0.96	1.15	0.23	5.87	0.96	0.72	0.07	7.68	0.79

Appendix Table L-2: Regression Validation Quality -30 Day Death (excluding hospital deaths)

Table L-2: Regression Validation Quality -30 Day Death (excluding hospital deaths)																				
Variables	Table: PDD only				Table: PDD plus Vitals				PDD plus Vitals plus NIHSS				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status				PDD Variable plus Vitals plus Labs			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Rheumatoid Arthritis	0.55	0.11	2.83	0.48	0.46	0.09	2.52	0.40	0.47	0.09	2.51	0.38	0.53	0.09	3.03	0.47	0.97	0.10	9.26	0.98
Obesity	1.25	0.36	4.29	0.73	1.42	0.40	4.99	0.91	1.38	0.38	5.06	0.63	1.71	0.41	7.12	1.25	5.27	0.58	47.95	0.14
Weight Loss	2.54	0.50	12.89	0.26	2.02	0.35	11.59	1.80	1.60	0.25	10.09	0.62	1.15	0.12	10.77	1.31	14.42	1.21	171.09	0.04
Fluid and Electrolyte Disorders	1.68	0.81	3.48	0.16	1.47	0.68	3.16	0.57	1.47	0.67	3.23	0.33	1.54	0.65	3.64	0.68	1.11	0.32	3.85	0.87
Chronic Blood Loss Anemia	2.57	0.17	38.50	0.49	3.13	0.20	49.51	4.41	3.45	0.22	53.52	0.38	4.59	0.27	78.18	6.64	16.29	0.43	612.58	0.13
Deficiency Anemias	0.81	0.36	1.82	0.61	0.84	0.36	1.99	0.37	0.84	0.36	2.01	0.70	1.08	0.42	2.77	0.52	0.38	0.07	2.22	0.28
Alcohol Abuse	0.16	0.01	4.29	0.28	0.18	0.01	4.61	0.30	0.19	0.01	5.20	0.33	0.22	0.01	5.60	0.37				
Drug Abuse	1.19	0.08	17.07	0.90	1.16	0.09	15.36	1.53	1.08	0.07	16.35	0.96					3.55	0.09	136.53	0.50
Psychoses	1.40	0.30	6.44	0.67	1.52	0.30	7.84	1.27	1.21	0.22	6.73	0.83	2.19	0.32	14.80	2.13	0.23	0.01	8.60	0.43
Depression	1.93	0.94	3.95	0.07	2.10	1.00	4.38	0.79	1.96	0.92	4.15	0.08	1.35	0.57	3.19	0.59	4.96	1.43	17.14	0.01
Hypertension	0.90	0.51	1.58	0.70	0.82	0.45	1.49	0.25	0.79	0.43	1.45	0.45	0.81	0.42	1.56	0.27	0.71	0.25	2.03	0.53
Current Smoker	0.74	0.30	1.84	0.52	0.79	0.32	2.00	0.37	0.81	0.32	2.07	0.66	0.98	0.36	2.65	0.50	0.16	0.02	1.02	0.05
History of Falls	0.48	0.10	2.22	0.35	0.49	0.10	2.36	0.39	0.68	0.14	3.23	0.63	0.68	0.13	3.59	0.58	0.30	0.01	6.10	0.43
Recurrent Stroke	1.00	0.45	2.20	0.99	1.03	0.46	2.33	0.43	1.13	0.49	2.56	0.78	1.34	0.54	3.30	0.62	0.70	0.19	2.50	0.58
Former TIA	0.65	0.20	2.08	0.47	0.66	0.20	2.22	0.41	0.49	0.14	1.76	0.27	0.74	0.20	2.73	0.49	0.54	0.08	3.64	0.53
Non-English Speaking	0.98	0.94	1.03	0.38	0.99	0.94	1.03	0.02	0.98	0.93	1.03	0.36	1.00	0.95	1.05	0.03	0.98	0.90	1.07	0.68
<200% Poverty	0.99	0.97	1.02	0.62	0.99	0.97	1.02	0.01	0.99	0.97	1.02	0.65	0.99	0.96	1.02	0.02	0.98	0.93	1.03	0.43
Rural	2.11	0.66	6.75	0.21	1.87	0.57	6.18	1.14	1.83	0.54	6.14	0.33	1.72	0.47	6.23	1.13	8.37	0.87	80.69	0.07
Distance to High Volume Hospital	0.98	0.95	1.00	0.11	0.98	0.95	1.00	0.01	0.98	0.95	1.00	0.08	0.98	0.95	1.01	0.01	0.97	0.93	1.01	0.11
Distance to Medium Volume Hospital	1.02	0.99	1.06	0.23	1.03	0.99	1.07	0.02	1.03	0.99	1.07	0.10	1.04	1.00	1.08	0.02	1.10	1.02	1.18	0.01
Distance to Low Volume Hospital	0.99	0.96	1.03	0.70	0.99	0.96	1.03	0.02	0.99	0.95	1.02	0.54	0.99	0.95	1.03	0.02	0.97	0.91	1.03	0.37
Temperature					1.02	0.79	1.31	0.13	1.04	0.80	1.34	0.78	0.95	0.72	1.24	0.13	0.75	0.48	1.18	0.22
Heart Rate					1.00	0.99	1.02	0.01	1.00	0.99	1.02	0.82	1.00	0.99	1.01	0.01	1.01	0.98	1.03	0.50
Respiratory Rate					1.04	0.98	1.11	0.03	1.03	0.97	1.11	0.34	1.03	0.95	1.11	0.04	0.93	0.82	1.06	0.28

Appendix Table L-2: Regression Validation Quality -30 Day Death (excluding hospital deaths)

Table L-2: Regression Validation Quality -30 Day Death (excluding hospital deaths)

Variables	Table: PDD only				Table: PDD plus Vitals				PDD plus Vitals plus NIHSS				PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status				PDD Variable plus Vitals plus Labs			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Systolic Blood Pressure					1.00	0.99	1.01	0.01	1.00	0.99	1.01	0.56	1.01	0.99	1.02	0.01	1.01	1.00	1.03	0.14
Diastolic Blood Pressure					1.01	0.99	1.03	0.01	1.00	0.98	1.02	0.85	1.00	0.98	1.02	0.01	1.02	0.99	1.05	0.29
Oxygen Saturation Level					0.97	0.89	1.05	0.04	0.96	0.89	1.05	0.40	0.95	0.87	1.04	0.04	0.89	0.77	1.02	0.10
NIHSS									1.09	1.05	1.14	0.00	1.08	1.03	1.13	0.02	1.06	1.00	1.13	0.05
Systolic Blood Pressure at Discharge													0.99	0.97	1.01	0.01				
Diastolic Blood Pressure at Discharge													1.03	1.00	1.06	0.02				
Ambulatory													0.26	0.13	0.50	0.09				
Hematocrit																	0.93	0.84	1.03	0.15
White Blood Count																	0.97	0.85	1.11	0.66
Platelet Count																	1.01	1.00	1.02	0.00
First Serum Creatinine																	1.05	0.88	1.25	0.61
Blood Urea Nitrogen																	1.02	0.98	1.05	0.36
Serum Sodium																	1.03	0.91	1.16	0.64
Blood Glucose																	1.00	1.00	1.01	0.40

	Table: PDD only		Table: PDD plus Vitals		PDD plus Vitals plus NIHSS		PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status		PDD Variable plus Vitals plus Labs	
	Number of obs =	805	Number of obs =	788	Number of obs =	788	Number of obs =	709	Number of obs =	471
	LR chi2(61) =	153.05	LR chi2(67) =	162.45	LR chi2(68) =	182.7	LR chi2(68) =	166.33	LR chi2(70) =	183.7

Appendix Table L-2: Regression Validation Quality -30 Day Death (excluding hospital deaths)

Table L-2: Regression Validation Quality -30 Day Death (excluding hospital deaths)															
Variables	Table: PDD only			Table: PDD plus Vitals			PDD plus Vitals plus NIHSS			PDD + Vitals + NIHSS + DC Vitals + Ambulatory Status			PDD Variable plus Vitals plus Labs		
	OR	[95% CI]	P>|z|	OR	[95% CI]	P>|z|	OR	[95% CI]	P>|z|	OR	[95% CI]	P>|z|	OR	[95% CI]	P>|z|
	Prob> chi2 =	0		Prob> chi2 =	0		Prob> chi2 =	0		Prob> chi2 =	0		Prob> chi2 =	0	
	Pseudo R2 =	0.2426		Pseudo R2 =	0.2642		Pseudo R2 =	0.2971		Pseudo R2 =	0.3061		Pseudo R2 =	0.477	

Appendix Table L-3: Regression Validation Quality- All Indicator Variables

Table L-3: Regression Validation Quality- All Indicator Variables

Variables	30 Day Death				30 Day Death (excluding hospital death)			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Quality Metrics								
Neurology consult	0.57	0.28	1.16	0.12	0.59	0.29	1.18	0.13
OT ordered	0.78	0.36	1.67	0.53	0.73	0.34	1.57	0.42
PT ordered	0.47	0.19	1.13	0.09	0.50	0.21	1.21	0.13
Speech ordered	0.99	0.46	2.15	0.98	0.97	0.45	2.11	0.95
Swallow evaluation	1.33	0.64	2.75	0.44	1.29	0.63	2.65	0.49
Prevention of Blood Clot	0.98	0.45	2.09	0.95	0.94	0.45	1.96	0.86
Brain Scan at Admission	0.87	0.06	11.93	0.91	1.08	0.09	13.82	0.95
Echocardiogram	1.38	0.68	2.80	0.37	1.31	0.65	2.66	0.45
Carotid Ultrasound	0.38	0.19	0.74	0.01	0.36	0.18	0.71	0.00
Patient Education at admission	2.01	0.15	26.67	0.60				
Written Follow Up	1.22	0.61	2.42	0.58				
Written Warning of Stroke Symptoms	1.38	0.12	16.31	0.80				
Written referrals	0.14	0.01	1.97	0.15				
Other Model Predictors								
Age in Years at Admission	1.04	1.01	1.07	0.01	1.04	1.01	1.08	0.01
Male	0.46	0.23	0.91	0.03	0.48	0.25	0.94	0.03
Hispanic	0.83	0.28	2.44	0.74	0.85	0.29	2.48	0.76
Black	0.80	0.21	2.98	0.74	0.86	0.24	3.10	0.82
Asian	1.53	0.46	5.10	0.48	1.60	0.49	5.28	0.44
Source of Admission--Nursing Home	1.11	0.39	3.14	0.84	1.19	0.43	3.34	0.74
Aphasia	1.34	0.50	3.57	0.56	1.38	0.52	3.65	0.51
Dysathria	1.77	0.81	3.88	0.16	1.73	0.79	3.76	0.17
Dysphagia	0.61	0.07	5.56	0.66	0.62	0.07	5.66	0.67
Facial Palsy	0.42	0.14	1.26	0.12	0.45	0.15	1.35	0.15
Hemiplegia	0.63	0.19	2.03	0.44	0.67	0.21	2.16	0.50
Other Paralysis	0.93	0.06	13.33	0.96	0.88	0.06	13.07	0.93
Ataxia	0.55	0.11	2.82	0.47	0.58	0.11	2.95	0.51
Decreased Consciousness	0.97	0.18	5.13	0.97	0.84	0.16	4.34	0.84
Seizure or Seizure Disorder	1.51	0.42	5.38	0.52	1.22	0.35	4.17	0.76

Appendix Table L-3: Regression Validation Quality- All Indicator Variables

Table L-3: Regression Validation Quality- All Indicator Variables

Variables	30 Day Death				30 Day Death (excluding hospital death)			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Other Cerebral Ischemic Signs or Symptoms	4.83	0.17	136.47	0.36	3.40	0.09	124.13	0.51
Admission Glucose	3.71	0.73	18.83	0.11	4.13	0.82	20.87	0.09
Acute MI	0.64	0.10	3.93	0.63	0.64	0.10	3.96	0.63
Atrial Fibrillation	0.80	0.37	1.73	0.56	0.81	0.38	1.73	0.59
History of Congestive Heart Failure	0.91	0.37	2.23	0.83	0.92	0.38	2.27	0.86
Any Ischemic Heart Disease	1.25	0.59	2.64	0.56	1.27	0.60	2.66	0.53
Hyperlipidemia	0.79	0.41	1.53	0.49	0.78	0.41	1.50	0.46
Dementia or Alzheimer's Disease	1.60	0.56	4.59	0.38	1.76	0.63	4.94	0.28
Anticoagulation	1.01	0.23	4.44	0.99	1.01	0.23	4.39	0.99
Valvular Disease	1.09	0.28	4.21	0.90	1.06	0.27	4.12	0.93
Pulmonary Circulation Disease	0.70	0.07	7.04	0.76	0.65	0.06	6.81	0.72
Peripheral Vascular Disease	2.37	0.80	7.04	0.12	2.29	0.78	6.77	0.13
Paralysis	2.41	0.77	7.54	0.13	2.40	0.77	7.48	0.13
Other Neurological Disorders	1.13	0.42	3.05	0.81	1.05	0.39	2.79	0.93
Chronic Pulmonary Disease	0.98	0.33	2.88	0.97	0.95	0.32	2.76	0.92
Diabetes Mellitus	0.72	0.31	1.64	0.43	0.71	0.31	1.62	0.42
Diabetes Mellitus with Complications	2.07	0.63	6.84	0.23	1.96	0.58	6.57	0.28
Hypothyroidism	0.62	0.25	1.52	0.30	0.62	0.25	1.51	0.29
Renal Failure	0.59	0.22	1.63	0.31	0.61	0.23	1.68	0.34
Liver Disease	19.52	0.40	964.31	0.14	15.18	0.36	636.68	0.15
Metastatic Cancer	0.39	0.02	8.30	0.54	0.42	0.02	8.03	0.56
Solid tumor without Metastasis	1.04	0.19	5.59	0.96	1.02	0.19	5.45	0.98
Rheumatoid Arthritis	0.66	0.11	3.90	0.65	0.65	0.11	3.74	0.63
Obesity	1.66	0.40	6.97	0.49	1.78	0.43	7.46	0.43
Weight Loss	1.36	0.14	13.17	0.79	1.48	0.15	14.35	0.73
Fluid and Electrolyte Disorders	1.24	0.50	3.05	0.64	1.24	0.51	3.02	0.63
Chronic Blood Loss Anemia	5.60	0.26	119.51	0.27	6.52	0.33	130.77	0.22
Deficiency Anemias	1.33	0.51	3.49	0.56	1.24	0.48	3.25	0.66
Alcohol Abuse	0.19	0.01	7.32	0.38	0.21	0.01	6.86	0.38

Appendix Table L-3: Regression Validation Quality- All Indicator Variables

Table L-3: Regression Validation Quality- All Indicator Variables

Variables	30 Day Death				30 Day Death (excluding hospital death)			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Psychoses	3.22	0.45	22.80	0.24	3.16	0.45	22.02	0.25
Depression	1.45	0.59	3.57	0.42	1.49	0.61	3.64	0.38
Hypertension	0.79	0.40	1.56	0.50	0.81	0.41	1.60	0.55
Current Smoker	0.93	0.32	2.66	0.89	0.89	0.31	2.56	0.84
History of Falls	0.88	0.16	4.78	0.88	0.91	0.17	4.98	0.92
Recurrent Stroke	1.43	0.54	3.77	0.47	1.40	0.54	3.60	0.49
Former TIA	0.84	0.22	3.18	0.80	0.84	0.22	3.18	0.80
Non-English Speaking	0.99	0.94	1.05	0.79	0.99	0.94	1.05	0.86
<200% Poverty	0.99	0.96	1.02	0.60	0.99	0.96	1.02	0.59
Rural	1.39	0.35	5.46	0.64	1.29	0.33	4.98	0.72
Distance to High Volume Hospital	0.98	0.95	1.01	0.15	0.98	0.95	1.01	0.17
Distance to Medium Volume Hospital	1.03	0.99	1.08	0.16	1.03	0.99	1.08	0.14
Distance to Low Volume Hospital	1.00	0.96	1.04	0.98	1.00	0.96	1.04	0.96
Temperature	0.93	0.71	1.23	0.62	0.94	0.71	1.23	0.63
Heart Rate	1.00	0.98	1.01	0.96	1.00	0.98	1.01	0.92
Respiratory Rate	1.02	0.95	1.10	0.58	1.02	0.95	1.10	0.56
Systolic Blood Pressure	1.01	1.00	1.02	0.22	1.01	0.99	1.02	0.25
Diastolic Blood Pressure	1.00	0.98	1.02	0.66	1.00	0.98	1.02	0.71
Oxygen Saturation Level	0.97	0.88	1.07	0.53	0.97	0.88	1.06	0.52
NIHSS	1.08	1.03	1.13	0.00	1.07	1.03	1.12	0.00
Systolic Blood Pressure at Discharge	0.99	0.97	1.01	0.37	0.99	0.97	1.01	0.37
Diastolic Blood Pressure at Discharge	1.02	0.99	1.05	0.13	1.02	0.99	1.05	0.13
Ambulatory	0.30	0.15	0.62	0.00	0.30	0.15	0.59	0.00

	30 Day Death		30 Day Death (excluding hospital death)	
	Number of obs =	709	Number of obs =	709
	LR chi2(80) =	180.86	LR chi2(76) =	177.28
	Prob> chi2 =	0	Prob> chi2 =	0

Appendix Table L-3: Regression Validation Quality- All Indicator Variables

Table L-3: Regression Validation Quality- All Indicator Variables						
Variables	**30 Day Death**			**30 Day Death (excluding hospital death)**		
	OR	**[95% CI]**	**P>|z|**	**OR**	**[95% CI]**	**P>|z|**
	Pseudo R2 =	0.3328		Pseudo R2 =	0.3262	

Appendix Table L-4: Examine Full Models for the Other Outcomes Using Logistic Regression

Table L-4: Examine Full Models For The Other Outcomes Using Logistic Regression								
Variables	**30 Day Death (including Hospital Death)**				**30 Day Death- Quality Score (excluding Hospital Death)**			
	OR	**[95% CI]**		**P>|z|**	**OR**	**[95% CI]**		**P>|z|**
Quality Metrics								
Quality Score Acute					0.98	0.96	0.99	0.00
Neurology consult	0.63	0.32	1.21	0.17				
OT ordered	0.68	0.32	1.42	0.31				
PT ordered	0.56	0.24	1.31	0.18				
Speech ordered	0.92	0.44	1.97	0.84				
Swallow evaluation	1.23	0.61	2.46	0.56				
Prevention of Blood Clot	1.08	0.53	2.19	0.83				
Brain Scan at Admission	1.32	0.10	17.81	0.83				
Echocardiogram	1.32	0.66	2.65	0.43				
Carotid Ultrasound	0.35	0.18	0.69	0.00				
Other Model Predictors								
Age in Years at Admission	1.04	1.01	1.07	0.01	1.04	1.01	1.07	0.01
Male	0.52	0.27	0.99	0.05	0.48	0.26	0.91	0.02
Hispanic	0.85	0.30	2.43	0.76	1.02	0.37	2.85	0.96
Black	0.87	0.25	2.99	0.82	0.98	0.29	3.35	0.98
Asian	1.45	0.45	4.68	0.53	1.64	0.53	5.06	0.39
Source of Admission--Nursing Home	1.29	0.49	3.45	0.61	1.61	0.63	4.10	0.32
Aphasia	1.39	0.54	3.62	0.50	1.31	0.52	3.33	0.56
Dysathria	1.64	0.77	3.45	0.20	1.75	0.85	3.62	0.13
Dysphagia	0.39	0.04	3.67	0.41	0.41	0.04	3.77	0.43
Facial Palsy	0.41	0.14	1.21	0.11	0.47	0.17	1.33	0.16
Hemiplegia	0.63	0.21	1.96	0.43	0.59	0.20	1.72	0.33
Other Paralysis	1.04	0.08	14.11	0.97	0.83	0.06	10.85	0.89
Hemineglect	0.79	0.04	16.88	0.88	0.81	0.03	19.58	0.89
Ataxia	0.48	0.10	2.42	0.37	0.34	0.07	1.70	0.19
Decreased Consciousness	0.78	0.16	3.85	0.76	0.94	0.20	4.42	0.94

Appendix Table L-4: Examine Full Models for the Other Outcomes Using Logistic Regression

Table L-4: Examine Full Models For The Other Outcomes Using Logistic Regression								
Variables	**30 Day Death (including Hospital Death)**				**30 Day Death- Quality Score (excluding Hospital Death)**			
	OR	**[95% CI]**		**P>|z|**	**OR**	**[95% CI]**		**P>|z|**
Seizure or Seizure Disorder	1.15	0.34	3.91	0.82	1.13	0.35	3.68	0.84
Other Cerebral Ischemic Signs or Symptoms	1.00	0.04	23.04	1.00	0.79	0.04	17.59	0.88
Admission Glucose	2.97	0.59	15.06	0.19	3.31	0.70	15.59	0.13
Acute MI	0.56	0.09	3.33	0.52	0.83	0.14	4.82	0.84
Atrial Fibrillation	0.82	0.39	1.71	0.60	0.89	0.44	1.80	0.74
History of Congestive Heart Failure	0.79	0.33	1.88	0.60	0.77	0.33	1.77	0.54
Any Ischemic Heart Disease	1.43	0.71	2.90	0.32	1.33	0.67	2.64	0.42
Hyperlipidemia	0.75	0.40	1.42	0.38	0.70	0.38	1.30	0.26
Dementia or Alzheimer's Disease	1.63	0.60	4.42	0.34	1.71	0.66	4.43	0.27
Bleeding Disorders (excluding platelet disorders)	4.01	0.04	407.55	0.56	1.70	0.01	198.58	0.83
Anticoagulation	1.02	0.24	4.34	0.98	0.94	0.24	3.73	0.93
Valvular Disease	1.45	0.43	4.93	0.55	1.26	0.37	4.29	0.71
Pulmonary Circulation Disease	0.55	0.05	6.12	0.63	0.65	0.06	7.09	0.73
Peripheral Vascular Disease	1.92	0.66	5.56	0.23	1.72	0.63	4.74	0.29
Paralysis	2.20	0.73	6.59	0.16	2.22	0.77	6.38	0.14
Other Neurological Disorders	1.07	0.41	2.80	0.88	1.14	0.45	2.86	0.79
Chronic Pulmonary Disease	1.08	0.39	3.00	0.89	1.05	0.39	2.84	0.92
Diabetes Mellitus	0.81	0.38	1.75	0.59	0.79	0.37	1.67	0.53
Diabetes Mellitus with Complications	1.56	0.47	5.18	0.47	1.46	0.46	4.63	0.52

Appendix Table L-4: Examine Full Models for the Other Outcomes Using Logistic Regression

Table L-4: Examine Full Models For The Other Outcomes Using Logistic Regression								
Variables	**30 Day Death (including Hospital Death)**				**30 Day Death- Quality Score (excluding Hospital Death)**			
	OR	**[95% CI]**		**P>|z|**	**OR**	**[95% CI]**		**P>|z|**
Hypothyroidism	0.62	0.26	1.49	0.29	0.73	0.31	1.70	0.47
Renal Failure	0.90	0.35	2.28	0.82	0.94	0.38	2.34	0.90
Liver Disease	13.04	0.35	488.35	0.17	11.79	0.38	361.60	0.16
Lymphoma	3.74	0.02	590.37	0.61	5.57	0.03	1011.35	0.52
Metastatic Cancer	0.38	0.02	8.04	0.53	0.44	0.02	8.01	0.58
Solid tumor without Metastasis	1.05	0.21	5.32	0.95	1.19	0.24	5.78	0.83
Rheumatoid Arthritis	0.53	0.09	3.08	0.48	0.44	0.08	2.53	0.36
Obesity	1.50	0.36	6.24	0.57	1.42	0.34	5.87	0.63
Weight Loss	1.40	0.14	14.06	0.77	1.11	0.11	10.70	0.93
Fluid and Electrolyte Disorders	1.57	0.68	3.59	0.29	1.89	0.85	4.24	0.12
Chronic Blood Loss Anemia	6.03	0.29	124.73	0.25	4.19	0.25	71.64	0.32
Deficiency Anemias	1.08	0.42	2.80	0.88	0.94	0.37	2.39	0.90
Alcohol Abuse	0.17	0.01	4.94	0.30	0.19	0.01	4.19	0.29
Psychoses	2.47	0.34	17.77	0.37	1.85	0.27	12.52	0.53
Depression	1.49	0.63	3.54	0.36	1.39	0.60	3.22	0.44
Hypertension	0.73	0.38	1.40	0.34	0.73	0.39	1.38	0.34
Current Smoker	1.15	0.43	3.07	0.78	1.26	0.49	3.20	0.63
History of Falls	0.60	0.11	3.39	0.57	0.50	0.09	2.63	0.41
Recurrent Stroke	1.27	0.50	3.25	0.62	1.24	0.51	3.03	0.64
Former TIA	0.73	0.20	2.74	0.64	0.65	0.18	2.38	0.51
Non-English Speaking	1.00	0.94	1.05	0.91	1.00	0.95	1.05	0.99
<200% Poverty	0.99	0.96	1.02	0.49	0.99	0.96	1.02	0.38
Rural	1.54	0.43	5.49	0.51	1.97	0.58	6.65	0.28
Distance to High Volume Hospital	0.99	0.97	1.01	0.50	0.99	0.97	1.01	0.33
Distance to Medium Volume Hospital	1.03	0.99	1.07	0.18	1.03	0.99	1.08	0.10

Appendix Table L-4: Examine Full Models for the Other Outcomes Using Logistic Regression

Table L-4: Examine Full Models For The Other Outcomes Using Logistic Regression

Variables	30 Day Death (including Hospital Death)				30 Day Death- Quality Score (excluding Hospital Death)			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Distance to Low Volume Hospital	1.00	0.96	1.04	0.91	0.99	0.95	1.03	0.61
Temperature	0.97	0.74	1.27	0.80	0.98	0.75	1.28	0.90
Heart Rate	1.00	0.99	1.02	0.73	1.00	0.99	1.02	0.70
Respiratory Rate	1.02	0.95	1.10	0.59	1.03	0.95	1.11	0.52
Systolic Blood Pressure	1.01	1.00	1.02	0.22	1.01	0.99	1.02	0.26
Diastolic Blood Pressure	1.00	0.98	1.02	0.65	1.00	0.98	1.01	0.62
Oxygen Saturation Level	0.95	0.87	1.04	0.29	0.94	0.86	1.02	0.15
NIHSS	1.07	1.02	1.12	0.00	1.07	1.03	1.12	0.00
Systolic Blood Pressure at Discharge	1.00	0.98	1.01	0.72	1.00	0.98	1.01	0.64
Diastolic Blood Pressure at Discharge	1.02	0.99	1.05	0.16	1.02	0.99	1.05	0.11
Ambulatory	0.30	0.15	0.58	0.00	0.27	0.14	0.51	0.00

	30 Day Death (including Hospital Death)			30 Day Death- Quality Score (excluding Hospital Death)		
	Number of obs	=	725	Number of obs	=	725
	LR chi2(79)	=	183.78	LR chi2(71)	=	172.97
	Prob> chi2	=	0	Prob> chi2	=	0
	Pseudo R2	=	0.3221	Pseudo R2	=	0.3031

Appendix Table L-5: Regression Validation Quality-30 day Readmission

Table L-5: Regression Validation Quality-30 day Readmission								
Variables	30 day Readmission (including hospital death)				30 day Readmission (excluding hospital death)			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Quality Score Acute					1.01	0.99	1.02	0.39
Neurology consult	1.36	0.75	2.45	0.31				
OT ordered	0.92	0.52	1.65	0.79				
PT ordered	1.65	0.77	3.53	0.20				
Speech ordered	0.68	0.36	1.30	0.24				
Swallow evaluation	1.44	0.79	2.63	0.23				
Prevention of Blood Clot	1.41	0.81	2.43	0.22				
Echocardiogram	0.78	0.45	1.37	0.39				
Carotid Ultrasound	0.85	0.48	1.49	0.56				
Age in Years at Admission	0.99	0.97	1.02	0.53	0.99	0.97	1.01	0.54
Male	1.38	0.82	2.32	0.23	1.36	0.81	2.29	0.24
Hispanic	0.70	0.29	1.71	0.44	0.75	0.31	1.81	0.52
Black	1.00	0.42	2.38	1.00	1.02	0.43	2.39	0.97
Asian	1.18	0.50	2.75	0.70	1.20	0.52	2.77	0.67
Other	0.31	0.03	2.85	0.30	0.27	0.03	2.52	0.25
Source of Admission--Nursing Home	0.72	0.24	2.20	0.56	0.88	0.30	2.58	0.82
Aphasia	0.83	0.33	2.09	0.70	0.77	0.31	1.88	0.56
Dysathria	1.18	0.62	2.24	0.61	1.15	0.61	2.15	0.67
Dysphagia	1.16	0.25	5.51	0.85	1.28	0.28	5.83	0.75
Facial Palsy	0.84	0.34	2.09	0.71	0.83	0.33	2.06	0.69
Hemiplegia	0.50	0.20	1.26	0.14	0.56	0.23	1.38	0.21
Other Paralysis	3.98	0.67	23.65	0.13	4.15	0.72	24.10	0.11
Hemineglect	0.80	0.05	12.09	0.87	0.65	0.05	8.84	0.75
Loss of Vision	1.12	0.12	10.14	0.92	1.00	0.11	8.76	1.00
Apraxia	6.92	0.84	57.15	0.07	7.22	0.95	54.83	0.06
Ataxia	0.97	0.39	2.43	0.96	1.24	0.51	3.00	0.63

Appendix Table L-5: Regression Validation Quality-30 day Readmission

Table L-5: Regression Validation Quality-30 day Readmission								
Variables	30 day Readmission (including hospital death)				30 day Readmission (excluding hospital death)			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Decreased Consciousness	0.63	0.11	3.77	0.62	0.67	0.11	3.97	0.66
Seizure or Seizure Disorder	0.50	0.16	1.59	0.24	0.50	0.16	1.54	0.22
Any Post Stroke Disability	0.61	0.05	7.70	0.71	0.67	0.05	8.48	0.76
Other Cerebral Ischemic Signs or Symptoms	0.55	0.03	9.90	0.69	0.63	0.04	10.96	0.75
Admission Glucose	1.28	0.22	7.34	0.78	1.68	0.30	9.25	0.55
Acute MI	1.18	0.16	8.64	0.87	1.25	0.18	8.86	0.83
Left sided Valvular Heart Disease	0.51	0.03	10.09	0.66	0.48	0.03	8.57	0.62
Atrial Fibrillation	1.02	0.52	1.99	0.96	1.11	0.58	2.13	0.75
History of CHF	0.61	0.29	1.33	0.21	0.63	0.29	1.36	0.24
Any Ischemic Heart Disease	0.72	0.39	1.35	0.31	0.76	0.41	1.39	0.37
Hyperlipidemia	0.91	0.55	1.52	0.72	0.87	0.53	1.45	0.60
Dementia or Alzheimer's Disease	1.16	0.46	2.94	0.75	1.22	0.49	3.02	0.67
Bleeding Disorders (excluding platelet disorders)	3.52	0.14	88.30	0.44	3.45	0.15	79.75	0.44
Anticoagulation	0.16	0.02	1.06	0.06	0.18	0.03	1.14	0.07
Hypercoagulable State	10.93	0.45	263.13	0.14	13.37	0.61	291.13	0.10
Valvular Disease	3.70	1.39	9.82	0.01	3.67	1.40	9.57	0.01
Pulmonary Circulation Disease	1.07	0.17	6.69	0.94	1.03	0.17	6.20	0.98
Peripheral Vascular Disease	1.03	0.40	2.69	0.95	1.02	0.40	2.61	0.96

Appendix Table L-5: Regression Validation Quality-30 day Readmission

Table L-5: Regression Validation Quality-30 day Readmission								
Variables	30 day Readmission (including hospital death)				30 day Readmission (excluding hospital death)			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Paralysis	1.07	0.41	2.80	0.89	1.06	0.41	2.74	0.90
Other Neurological Disorders	1.82	0.77	4.30	0.17	1.87	0.80	4.34	0.15
Chronic Pulmonary Disease	2.11	0.98	4.53	0.06	2.09	0.98	4.47	0.06
Diabetes Mellitus	1.32	0.72	2.41	0.37	1.24	0.68	2.25	0.49
Diabetes Mellitus with Complications	1.31	0.47	3.60	0.60	1.43	0.53	3.83	0.48
Hypothyroidism	0.87	0.40	1.91	0.73	0.92	0.43	1.98	0.83
Renal Failure	2.62	1.29	5.31	0.01	2.70	1.34	5.46	0.01
Liver Disease	1.31	0.08	20.92	0.85	1.58	0.11	22.31	0.74
Lymphoma	6.62	0.04	1173.09	0.47	7.61	0.05	1185.38	0.43
Metastatic Cancer	1.56	0.22	11.08	0.65	1.59	0.23	11.17	0.64
Solid tumor without Metastasis	0.45	0.05	4.09	0.48	0.52	0.06	4.50	0.55
Rheumatoid Arthritis	0.45	0.08	2.49	0.36	0.47	0.09	2.53	0.38
Obesity	0.53	0.16	1.75	0.30	0.54	0.16	1.78	0.31
Weight Loss	1.18	0.23	6.21	0.84	1.13	0.22	5.82	0.89
Fluid and Electrolyte Disorders	1.37	0.66	2.85	0.40	1.24	0.61	2.55	0.56
Deficiency Anemias	1.21	0.57	2.61	0.62	1.21	0.57	2.59	0.62
Alcohol Abuse	0.90	0.21	3.80	0.88	0.93	0.23	3.78	0.92
Drug Abuse	1.02	0.13	8.16	0.99	1.09	0.15	8.08	0.93
Psychoses	1.14	0.21	6.23	0.88	1.04	0.20	5.45	0.96
Depression	2.38	1.11	5.08	0.03	2.20	1.05	4.58	0.04
Hypertension	1.17	0.67	2.05	0.58	1.23	0.71	2.13	0.47
Current Smoker	0.56	0.24	1.34	0.20	0.64	0.28	1.46	0.29
History of Falls	0.45	0.10	1.92	0.28	0.49	0.12	2.05	0.33
Recurrent Stroke	1.41	0.65	3.09	0.38	1.31	0.61	2.80	0.49
Former TIA	0.54	0.17	1.74	0.30	0.65	0.21	2.04	0.46

Appendix Table L-5: Regression Validation Quality-30 day Readmission

Table L-5: Regression Validation Quality-30 day Readmission								
Variables	30 day Readmission (including hospital death)				30 day Readmission (excluding hospital death)			
	OR	[95% CI]		P>|z|	OR	[95% CI]		P>|z|
Non-English Speaking	1.01	0.97	1.05	0.72	1.01	0.97	1.05	0.62
<200% Poverty	1.00	0.97	1.02	0.68	0.99	0.97	1.02	0.65
Rural	0.39	0.09	1.77	0.22	0.44	0.10	1.94	0.28
Distance to High Volume Hospital	0.99	0.97	1.02	0.55	1.00	0.97	1.02	0.76
Distance to Medium Volume Hospital	1.01	0.97	1.05	0.57	1.00	0.97	1.04	0.87
Distance to Low Volume Hospital	1.03	1.00	1.06	0.06	1.03	1.00	1.06	0.05
Temperature	0.96	0.74	1.23	0.73	1.00	0.78	1.29	0.99
Heart Rate	1.01	0.99	1.02	0.43	1.00	0.99	1.02	0.56
Respiratory Rate	1.01	0.95	1.08	0.69	1.02	0.96	1.08	0.58
Systolic Blood Pressure	0.99	0.98	1.00	0.12	0.99	0.98	1.00	0.11
Diastolic Blood Pressure	1.00	0.99	1.02	0.80	1.00	0.99	1.02	0.82
Oxygen Saturation Level	1.03	0.94	1.14	0.50	1.04	0.95	1.14	0.43
NIHSS	1.02	0.98	1.07	0.38	1.02	0.98	1.07	0.32
Systolic Blood Pressure at Discharge	1.00	0.98	1.01	0.74	1.00	0.98	1.01	0.62
Diastolic Blood Pressure at Discharge	1.00	0.98	1.03	0.81	1.00	0.98	1.03	0.74
Ambulatory	0.87	0.50	1.54	0.64	0.91	0.52	1.58	0.73

Appendix Table L-5: Regression Validation Quality-30 day Readmission

	30 day Readmission (including hospital death)		**30 day Readmission (excluding hospital death)**	
	Number of obs =	778	Number of obs=	785
	LR chi2(84) =	90	LR chi2(77) =	82.63
	Prob> chi2 =	0.3073	Prob> chi2 =	0.3099
	Pseudo R2 =	0.1462	Pseudo R2 =	0.1338

Appendix M:
C-Statistic for Validation Models by Outcome

Appendix Table M: C-Statistic for Validation Models by Outcome

Table M: Regression Validation ROC					
Variables	**Obs**	**Area**	**Std. Err.**	**[95% CI]**	
Inpatient Death					
phdeath_0	865	0.83	0.02	0.78	0.87
phdeath_1	865	0.85	0.02	0.81	0.89
phdeath_2	865	0.91	0.02	0.88	0.94
phdeath_0b	474	0.84	0.03	0.79	0.90
phdeath_1b	474	0.85	0.03	0.80	0.90
phdeath_2b	474	0.90	0.02	0.85	0.94
phdeath_3b	474	0.93	0.02	0.89	0.97
30 day outcomes (including hospital death)					
pdeath30_0	746	0.79	0.02	0.75	0.84
pdeath30_1	746	0.80	0.02	0.75	0.85
pdeath30_2	746	0.82	0.02	0.77	0.86
pdeath30_3	746	0.86	0.02	0.81	0.90
pdeath30_0b	438	0.83	0.03	0.78	0.89
pdeath30_1b	438	0.84	0.03	0.79	0.89
pdeath30_2b	438	0.86	0.03	0.81	0.91
pdeath30_3b	438	0.87	0.02	0.82	0.92
pdeath30_4b	438	0.91	0.02	0.86	0.95
30 day outcomes excluding hospital death					
pdeath30d_~0	730	0.82	0.02	0.77	0.86
pdeath30d_~1	730	0.82	0.02	0.77	0.87
pdeath30d_~2	730	0.84	0.02	0.79	0.88
pdeath30d_~3	730	0.86	0.02	0.81	0.90
pdeath30d~0b	431	0.86	0.03	0.81	0.91
pdeath30d~1b	431	0.87	0.03	0.82	0.92
pdeath30d~2b	431	0.88	0.03	0.83	0.93
pdeath30d~3b	431	0.91	0.02	0.86	0.95
pdeath30d~4b	431	0.91	0.02	0.87	0.96

Appendix N-1:

Hospital Death, Logistic Regression, Model Results

Appendix N-1: Hospital Death, Logistic Regression, Model Results

Model Information		
Data Set	WORK.MODEL_VARS	
Response Variable	Hdeath	Any Hospital Death (index/transfers)
Number of Response Levels	2	
Cluster Variable	oshpd_id	Index Hosp Id
Number of Clusters	338	
Model	Binary Logit	
Optimization Technique	Fisher's Scoring	
Variance Adjustment	Degrees of Freedom (DF)	

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

Number of Observations Read	102,034
Number of Observations Used	101,669

Response Profile		
Ordered Value	**Hdeath**	**Total Frequency**
1	0	95,933
2	1	5,736

Appendix N-1: Hospital Death, Logistic Regression, Model Results

Probability modeled is Hdeath=1.

Note: 365 observations were deleted due to missing values for the response or explanatory variables.

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

Model Fit Statistics		
Criterion	**Intercept Only**	**Intercept and Covariates**
AIC	44,125.665	35,180.548
SC	44,135.195	35,961.965
-2 Log L	44,123.665	35,016.548

R-Square	0.0857	**Max-rescaled R-Square**	0.2434

Testing Global Null Hypothesis: BETA=0			
Test	**Chi-Square**	**DF**	**Pr > ChiSq**
Likelihood Ratio	9,107.1179	81	<.0001
Score	14,531.2468	81	<.0001
Wald	8,935.8938	81	<.0001

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
Intercept	1	-5.7070	0.1636	1216.8030	<.0001	Intercept: Hdeath=0
agyradm	1	0.0279	0.00171	265.8655	<.0001	Age in Years at Admission
male	1	-0.0445	0.0375	1.4115	0.2348	1=male
black	1	-0.4574	0.0676	45.7321	<.0001	1=black
hispa	1	-0.2842	0.0567	25.1206	<.0001	1=hispanic
asian	1	-0.2202	0.0761	8.3622	0.0038	1=asian
RURAL	1	-0.0273	0.0838	0.1058	0.7450	>= 40% Populations are rural dwellers
other	1	-0.0807	0.0891	0.8205	0.3650	1=other race-ethnicity
ED_trans	1	0.0691	0.0727	0.9050	0.3414	0/1 ED transfer
HH_trans	1	0.6699	0.0949	49.8410	<.0001	0/1 HH transfer
BOTH_trans	1	0.4625	0.2975	2.4180	0.1199	0/1 ED + HH transfer
SRC_nursing	1	0.3129	0.0568	30.3664	<.0001	1=nursing source of Admit

Appendix N-1: Hospital Death, Logistic Regression, Model Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
SRC_other	1	0.1545	0.1305	1.4021	0.2364	1=other source of Admit
DIST_HV	1	0.00161	0.000766	4.4235	0.0354	
DIST_MV	1	-0.00112	0.00175	0.4124	0.5207	
DIST_LV	1	-0.00045	0.00153	0.0877	0.7672	
POVERTY	1	0.00111	0.00206	0.2886	0.5912	% Individuals w/Income <200% Poverty
COLLEGE	1	0.00375	0.00190	3.8981	0.0483	% Adults with 4 or more yrs college
FacialPalsy_Any	1	-0.1552	0.0547	8.0474	0.0046	Facial palsy
Dysathria_Any	1	-0.4803	0.0468	105.1355	<.0001	Dysarthria (inability to articulate)
AnyPostStrokeDis_Any	1	-0.1449	0.1054	1.8906	0.1691	Any post-stroke disability
Aphasia_Any	1	0.1467	0.0416	12.4508	0.0004	Aphasia
Hemiplegia_Hemipares	1	0.4353	0.0409	113.0889	<.0001	Hemiplegia/Hemiparesis
OtherParalysis_Any	1	0.3291	0.1432	5.2818	0.0215	Other paralysis
Hemineglect_Any	1	0.3766	0.1397	7.2730	0.0070	Hemineglect
VisionLoss_Any	1	-0.2396	0.1144	4.3883	0.0362	Vision loss
Apraxia_Any	1	-0.9046	0.4119	4.8226	0.0281	Apraxia
Ataxia_Any	1	-0.9895	0.1039	90.7654	<.0001	Ataxia
ALTLOC_Any	1	1.7553	0.0642	747.6298	<.0001	Decreased consciousness, altered mental status, coma
SeizureDis_Any	1	0.4275	0.0569	56.4014	<.0001	Seizure or seizure disorder
ConDevEye_Any	1	1.5474	0.3925	15.5403	<.0001	Conjugate deviation of eyes
OCerISOS_Any	1	0.000776	0.1201	0.0000	0.9948	Other cerebral ischemic signs or symptoms
TPN_Any	1	0.6183	0.1935	10.2149	0.0014	Perenteral nutrition
Dysphagia_Any	1	-0.3584	0.0578	38.4298	<.0001	Dysphagia
AdmGlucose_Any	1	0.2247	0.1096	4.2058	0.0403	Admission elevated glucose
AcuMyoInf_Any	1	0.8999	0.0806	124.7549	<.0001	Acute myocardial infarction
LSVHRD_Any	1	-0.0137	0.1464	0.0087	0.9257	Left sided valvular heart disease
RSVHRD_Any	1	-0.3401	0.1556	4.7763	0.0289	Right sided valvular heart disease
AtrFib_Any	1	0.5902	0.0335	310.1278	<.0001	Atrial fibrillation
CardArrest_Y	1	2.4754	0.0594	1734.5475	<.0001	cx Cardiopulmonary arrest
SysHRFail_Any	1	-0.1382	0.4776	0.0838	0.7723	Systolic heart failure
HisCHF_Any	1	0.4139	0.0386	115.1931	<.0001	History of CHF (L heart failure, cardiomyopathy)
AIscHRD_Any	1	0.1168	0.0368	10.0859	0.0015	Any Ischemic Heart Disease: CAD, angina, AMI, prior MI
Hyperlipidemia_Any	1	-0.4198	0.0330	161.3885	<.0001	Hyperlipidemia
DemAlzDis_Any	1	-0.1669	0.0687	5.9013	0.0151	Dementia or Alzheimers Disease

Appendix N-1: Hospital Death, Logistic Regression, Model Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
LowPlaCnt_Any	1	-0.2513	0.4756	0.2792	0.5972	Low platelet count
BleDisExPlaDis_Any	1	0.8568	0.1653	26.8717	<.0001	Bleeding Disorders (no platelet disorders)
Anticoagulation_Any	1	-0.0765	0.0567	1.8218	0.1771	Anticoagulation
HypCoaSta_Any	1	0.0560	0.2187	0.0656	0.7979	Hypercoagulable state
Falls	1	-0.00314	0.0738	0.0018	0.9661	Falls
SmokerCur	1	-0.0688	0.0477	2.0836	0.1489	Current Smoker
RecStroke	1	-0.1123	0.0517	4.7112	0.0300	Recurrent Strokes
FormTIA	1	-0.0262	0.0640	0.1680	0.6819	Former TIA
TIAReslvd	1	0.0359	0.0594	0.3642	0.5462	TIA resolved
Fever48h	1	1.0587	0.1878	31.7859	<.0001	Fever 48 h
VALVE_Any	1	-0.0330	0.0528	0.3899	0.5323	elix Valvular disease
PULMCIRC_Any	1	0.0633	0.0929	0.4634	0.4960	elix Pulmonary circulation disease
PERIVASC_Any	1	0.2180	0.0504	18.6875	<.0001	elix Peripheral vascular disease
HTN_C_Any	1	-0.0514	0.0352	2.1321	0.1442	elix Hypertension
PARA_Any	1	0.3272	0.0478	46.7830	<.0001	elix Paralysis
NEURO_Any	1	-0.0973	0.0575	2.8621	0.0907	elix Other neurological disorders
CHRNLUNG_Any	1	0.1394	0.0417	11.1760	0.0008	elix Chronic pulmonary disease
DM_Any	1	0.0820	0.0357	5.2738	0.0216	elix Diabetes w/o chronic complications
DMCX_Any	1	0.0615	0.0590	1.0866	0.2972	elix Diabetes w/ chronic complications
HYPOTHY_Any	1	-0.1552	0.0477	10.6066	0.0011	elix Hypothyroidism
RENLFAIL_Any	1	0.2668	0.0467	32.6501	<.0001	elix Renal failure
LIVER_Any	1	0.2922	0.1332	4.8101	0.0283	elix Liver disease
ULCER_Any	1	0.3998	0.5076	0.6203	0.4309	elix Peptic ulcer Disease x bleeding
AIDS_Any	1	-0.8003	1.8199	0.1934	0.6601	elix Acquired immune deficiency syndrome
LYMPH_Any	1	-0.0141	0.2365	0.0036	0.9524	elix Lymphoma
METS_Any	1	1.1468	0.0993	133.2942	<.0001	elix Metastatic cancer
TUMOR_Any	1	0.4111	0.0938	19.1935	<.0001	elix Solid tumor w/out metastasis
ARTH_Any	1	-0.0421	0.1149	0.1346	0.7137	elix Rheumatoid arthritis/collagen vas
OBESE_Any	1	-0.2071	0.0768	7.2682	0.0070	elix Obesity
WGHTLOSS_Any	1	0.0897	0.0861	1.0836	0.2979	elix Weight loss
LYTES_Any	1	0.2810	0.0421	44.6027	<.0001	elix Fluid and electrolyte disorders
BLDLOSS_Any	1	-0.0105	0.1700	0.0038	0.9510	elix Chronic blood loss anemia
ANEMDEF_Any	1	-0.1526	0.0483	9.9916	0.0016	elix Deficiency Anemias
ALCOHOL_Any	1	0.0867	0.0963	0.8105	0.3680	elix Alcohol abuse
DRUG_Any	1	0.3082	0.1266	5.9291	0.0149	elix Drug abuse

Appendix N-1: Hospital Death, Logistic Regression, Model Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
PSYCH_Any	1	-0.3140	0.1066	8.6801	0.0032	elix Psychoses
DEPRESS_Any	1	-0.2357	0.0594	15.7366	<.0001	elix Depression

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
agyradm	1.028	1.025	1.032
male	0.956	0.889	1.029
black	0.633	0.554	0.723
hispa	0.753	0.673	0.841
asian	0.802	0.691	0.932
RURAL	0.973	0.826	1.147
other	0.922	0.775	1.098
ED_trans	1.072	0.929	1.236
HH_trans	1.954	1.622	2.353
BOTH_trans	1.588	0.887	2.845
SRC_nursing	1.367	1.223	1.528
SRC_other	1.167	0.904	1.507
DIST_HV	1.002	1.000	1.003
DIST_MV	0.999	0.995	1.002
DIST_LV	1.000	0.997	1.003
POVERTY	1.001	0.997	1.005
COLLEGE	1.004	1.000	1.008
FacialPalsy_Any	0.856	0.769	0.953
Dysathria_Any	0.619	0.564	0.678
AnyPostStrokeDis_Any	0.865	0.704	1.064
Aphasia_Any	1.158	1.067	1.256
Hemiplegia_Hemipares	1.545	1.426	1.675
OtherParalysis_Any	1.390	1.050	1.840
Hemineglect_Any	1.457	1.108	1.916
VisionLoss_Any	0.787	0.629	0.985
Apraxia_Any	0.405	0.181	0.907
Ataxia_Any	0.372	0.303	0.456
ALTLOC_Any	5.785	5.101	6.561
SeizureDis_Any	1.533	1.372	1.714

Appendix N-1: Hospital Death, Logistic Regression, Model Results

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
ConDevEye_Any	4.699	2.177	10.142
OCerISOS_Any	1.001	0.791	1.266
TPN_Any	1.856	1.270	2.711
Dysphagia_Any	0.699	0.624	0.783
AdmGlucose_Any	1.252	1.010	1.552
AcuMyoInf_Any	2.459	2.100	2.880
LSVHRD_Any	0.986	0.740	1.314
RSVHRD_Any	0.712	0.525	0.966
AtrFib_Any	1.804	1.690	1.927
CardArrest_Y	11.886	10.579	13.355
SysHRFail_Any	0.871	0.342	2.221
HisCHF_Any	1.513	1.403	1.631
AIscHRD_Any	1.124	1.046	1.208
Hyperlipidemia_Any	0.657	0.616	0.701
DemAlzDis_Any	0.846	0.740	0.968
LowPlaCnt_Any	0.778	0.306	1.976
BleDisExPlaDis_Any	2.356	1.704	3.257
Anticoagulation_Any	0.926	0.829	1.035
HypCoaSta_Any	1.058	0.689	1.623
Falls	0.997	0.863	1.152
SmokerCur	0.934	0.850	1.025
RecStroke	0.894	0.808	0.989
FormTIA	0.974	0.859	1.104
TIAReslvd	1.037	0.923	1.164
Fever48h	2.883	1.995	4.165
VALVE_Any	0.968	0.873	1.073
PULMCIRC_Any	1.065	0.888	1.278
PERIVASC_Any	1.244	1.127	1.373
HTN_C_Any	0.950	0.887	1.018
PARA_Any	1.387	1.263	1.523
NEURO_Any	0.907	0.811	1.016
CHRNLUNG_Any	1.150	1.059	1.248
DM_Any	1.085	1.012	1.164
DMCX_Any	1.063	0.947	1.194
HYPOTHY_Any	0.856	0.780	0.940

Appendix N-1: Hospital Death, Logistic Regression, Model Results

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
RENLFAIL_Any	1.306	1.192	1.431
LIVER_Any	1.339	1.032	1.739
ULCER_Any	1.491	0.552	4.034
AIDS_Any	0.449	0.013	15.904
LYMPH_Any	0.986	0.620	1.568
METS_Any	3.148	2.591	3.825
TUMOR_Any	1.508	1.255	1.813
ARTH_Any	0.959	0.765	1.201
OBESE_Any	0.813	0.699	0.945
WGHTLOSS_Any	1.094	0.924	1.295
LYTES_Any	1.325	1.220	1.438
BLDLOSS_Any	0.990	0.709	1.381
ANEMDEF_Any	0.858	0.781	0.944
ALCOHOL_Any	1.091	0.903	1.317
DRUG_Any	1.361	1.062	1.744
PSYCH_Any	0.731	0.593	0.900
DEPRESS_Any	0.790	0.703	0.888

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	83.0	**Somers' D**	0.668
Percent Discordant	16.2	**Gamma**	0.674
Percent Tied	0.9	**Tau-a**	0.071
Pairs	550,271,688	**c**	0.834

group	N	Observed	Predicted	Difference	95% CI of predicted death
1	10,202	55	62.75	7.75	(47.74,85.10)
2	10,203	66	112.54	46.54	(87.75,146.03)
3	10,203	103	153.44	50.44	(120.73,197.35)
4	10,203	139	199.16	60.16	(157.12,254.48)
5	10,203	217	253.80	36.80	(199.54,326.24)
6	10,203	283	324.02	41.02	(254.86,414.39)
7	10,203	426	423.19	-2.81	(332.65,541.04)
8	10,203	643	578.54	-64.46	(453.00,741.97)
9	10,203	1,015	883.83	-131.17	(688.86, 1,134.83)

Appendix N-1: Hospital Death, Logistic Regression, Model Results

group	N	Observed	Predicted	Difference	95% CI of predicted death
10	10,208	2,811	2,744.74	-66.26	(2,259.03, 3,293.57)
	10,2034	**5,758**	**5,736.00**	**-22.00**	**(.,.)**

Appendix N-2:

30-Day Death, Logistic Regression, Model Results

Appendix N-2: 30-Day Death, Logistic Regression, Model Results

Model Information		
Data Set	WORK.MODEL_VARS	
Response Variable	death_30d	Death within 30 days (after admission)
Number of Response Levels	2	
Cluster Variable	oshpd_id	Index Hosp Id
Number of Clusters	338	
Model	Binary Logit	
Optimization Technique	Fisher's Scoring	
Variance Adjustment	Degrees of Freedom (DF)	

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

Number of Observations Read	102,034
Number of Observations Used	101,669

Response Profile		
Ordered Value	**death_30d**	**Total Frequency**
1	0	90,287
2	1	11,382

Appendix N-2: 30-Day Death, Logistic Regression, Model Results

Probability modeled is death_30d=1.

Note: 365 observations were deleted due to missing values for the response or explanatory variables.

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

Model Fit Statistics		
Criterion	**Intercept Only**	**Intercept and Covariates**
AIC	71,287.449	56,038.588
SC	71,296.978	56,820.005
-2 Log L	71,285.449	55,874.588

R-Square	0.1406	**Max-rescaled R-Square**	0.2791

Testing Global Null Hypothesis: BETA=0			
Test	**Chi-Square**	**DF**	**Pr > ChiSq**
Likelihood Ratio	15,410.8604	81	<.0001
Score	16,910.1098	81	<.0001
Wald	13,242.1574	81	<.0001

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
Intercept	1	-6.3503	0.1360	2,179.1251	<.0001	Intercept: death_30d=0
agyradm	1	0.0518	0.00137	1,423.5211	<.0001	Age in Years at Admission
male	1	-0.0205	0.0276	0.5523	0.4574	1=male
black	1	-0.7201	0.0575	156.6125	<.0001	1=black
hispa	1	-0.4289	0.0420	104.4203	<.0001	1=hispanic
asian	1	-0.5175	0.0660	61.5275	<.0001	1=asian
RURAL	1	0.0262	0.0587	0.1992	0.6553	>= 40% Populations are rural dwellers
other	1	-0.2837	0.0657	18.6543	<.0001	1=other race-ethnicity
ED_trans	1	0.1490	0.0615	5.8687	0.0154	0/1 ED transfer
HH_trans	1	0.1396	0.0862	2.6230	0.1053	0/1 HH transfer
BOTH_trans	1	0.2062	0.2221	0.8621	0.3532	0/1 ED + HH transfer
SRC_nursing	1	0.5501	0.0442	154.6134	<.0001	1=nursing source of Admit

Appendix N-2: 30-Day Death, Logistic Regression, Model Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
SRC_other	1	0.1212	0.1046	1.3433	0.2464	1=other source of Admit
DIST_HV	1	0.000197	0.000511	0.1479	0.7005	
DIST_MV	1	0.00113	0.00120	0.8780	0.3488	
DIST_LV	1	-0.00147	0.00110	1.8002	0.1797	
POVERTY	1	-0.00324	0.00154	4.4029	0.0359	% Individuals w/Income <200% Poverty
COLLEGE	1	-0.00474	0.00138	11.8909	0.0006	% Adults with 4 or more yrs college
FacialPalsy_Any	1	-0.0997	0.0385	6.7087	0.0096	Facial palsy
Dysathria_Any	1	-0.3972	0.0351	128.0088	<.0001	Dysarthria (inability to articulate)
AnyPostStrokeDis_Any	1	-0.0668	0.0734	0.8263	0.3633	Any post-stroke disability
Aphasia_Any	1	0.2795	0.0303	85.3348	<.0001	Aphasia
Hemiplegia_Hemipares	1	0.5611	0.0340	271.9033	<.0001	Hemiplegia/Hemiparesis
OtherParalysis_Any	1	0.3134	0.1073	8.5315	0.0035	Other paralysis
Hemineglect_Any	1	0.2902	0.1288	5.0725	0.0243	Hemineglect
VisionLoss_Any	1	-0.1898	0.0760	6.2388	0.0125	Vision loss
Apraxia_Any	1	-0.8625	0.2547	11.4643	0.0007	Apraxia
Ataxia_Any	1	-0.8910	0.0724	151.4740	<.0001	Ataxia
ALTLOC_Any	1	1.6092	0.0617	680.5040	<.0001	Decreased consciousness, altered mental status, coma
SeizureDis_Any	1	0.3147	0.0423	55.3381	<.0001	Seizure or seizure disorder
ConDevEye_Any	1	1.2246	0.4109	8.8836	0.0029	Conjugate deviation of eyes
OCerISOS_Any	1	-0.1781	0.0923	3.7177	0.0538	Other cerebral ischemic signs or symptoms
TPN_Any	1	0.5023	0.1755	8.1959	0.0042	Perenteral nutrition
Dysphagia_Any	1	0.1644	0.0416	15.6437	<.0001	Dysphagia
AdmGlucose_Any	1	0.1411	0.0848	2.7658	0.0963	Admission elevated glucose
AcuMyoInf_Any	1	0.8083	0.0657	151.2474	<.0001	Acute myocardial infarction
LSVHRD_Any	1	-0.0868	0.1188	0.5340	0.4649	Left sided valvular heart disease
RSVHRD_Any	1	-0.0827	0.1048	0.6229	0.4300	Right sided valvular heart disease
AtrFib_Any	1	0.4771	0.0241	393.5133	<.0001	Atrial fibrillation
CardArrest_Y	1	1.7183	0.0609	796.5255	<.0001	cx Cardiopulmonary arrest
SysHRFail_Any	1	-0.0733	0.3706	0.0391	0.8432	Systolic heart failure
HisCHF_Any	1	0.4358	0.0301	210.1512	<.0001	History of CHF (L heart failure, cardiomyopathy)
AIscHRD_Any	1	0.0650	0.0283	5.2784	0.0216	Any Ischemic Heart Disease: CAD, angina, AMI, prior MI
Hyperlipidemia_Any	1	-0.4642	0.0235	389.5017	<.0001	Hyperlipidemia
DemAlzDis_Any	1	0.2554	0.0468	29.7604	<.0001	Dementia or Alzheimers Disease

Appendix N-2: 30-Day Death, Logistic Regression, Model Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
LowPlaCnt_Any	1	0.0226	0.3443	0.0043	0.9476	Low platelet count
BleDisExPlaDis_Any	1	0.5160	0.1572	10.7678	0.0010	Bleeding Disorders (no platelet disorders)
Anticoagulation_Any	1	-0.1963	0.0434	20.4314	<.0001	Anticoagulation
HypCoaSta_Any	1	0.4177	0.1741	5.7597	0.0164	Hypercoagulable state
Falls	1	-0.0135	0.0573	0.0558	0.8132	Falls
SmokerCur	1	-0.0359	0.0394	0.8329	0.3614	Current Smoker
RecStroke	1	0.0452	0.0356	1.6107	0.2044	Recurrent Strokes
FormTIA	1	-0.0247	0.0426	0.3357	0.5623	Former TIA
TIAReslvd	1	0.1595	0.0477	11.1995	0.0008	TIA resolved
Fever48h	1	0.6203	0.1661	13.9471	0.0002	Fever 48 h
VALVE_Any	1	-0.0945	0.0407	5.3818	0.0203	elix Valvular disease
PULMCIRC_Any	1	-0.0353	0.0731	0.2333	0.6291	elix Pulmonary circulation disease
PERIVASC_Any	1	0.1959	0.0401	23.8209	<.0001	elix Peripheral vascular disease
HTN_C_Any	1	-0.0896	0.0278	10.3907	0.0013	elix Hypertension
PARA_Any	1	0.2537	0.0365	48.2806	<.0001	elix Paralysis
NEURO_Any	1	0.0441	0.0477	0.8555	0.3550	elix Other neurological disorders
CHRNLUNG_Any	1	0.0432	0.0354	1.4861	0.2228	elix Chronic pulmonary disease
DM_Any	1	0.1073	0.0295	13.2080	0.0003	elix Diabetes w/o chronic complications
DMCX_Any	1	0.0542	0.0484	1.2504	0.2635	elix Diabetes w/ chronic complications
HYPOTHY_Any	1	-0.1602	0.0337	22.5852	<.0001	elix Hypothyroidism
RENLFAIL_Any	1	0.2626	0.0386	46.3305	<.0001	elix Renal failure
LIVER_Any	1	0.4081	0.1041	15.3607	<.0001	elix Liver disease
ULCER_Any	1	0.4557	0.4725	0.9302	0.3348	elix Peptic ulcer Disease x bleeding
AIDS_Any	1	0.2475	0.8562	0.0836	0.7725	elix Acquired immune deficiency syndrome
LYMPH_Any	1	0.3519	0.1701	4.2783	0.0386	elix Lymphoma
METS_Any	1	1.9593	0.0803	595.1767	<.0001	elix Metastatic cancer
TUMOR_Any	1	0.6631	0.0738	80.6182	<.0001	elix Solid tumor w/out metastasis
ARTH_Any	1	0.00815	0.0846	0.0093	0.9232	elix Rheumatoid arthritis/collagen vas
OBESE_Any	1	-0.2142	0.0580	13.6508	0.0002	elix Obesity
WGHTLOSS_Any	1	0.2259	0.0699	10.4523	0.0012	elix Weight loss
LYTES_Any	1	0.2478	0.0309	64.2234	<.0001	elix Fluid and electrolyte disorders
BLDLOSS_Any	1	-0.00879	0.1441	0.0037	0.9513	elix Chronic blood loss anemia
ANEMDEF_Any	1	-0.0545	0.0350	2.4215	0.1197	elix Deficiency Anemias
ALCOHOL_Any	1	-0.0409	0.0737	0.3077	0.5791	elix Alcohol abuse
DRUG_Any	1	0.2485	0.1171	4.5068	0.0338	elix Drug abuse

Appendix N-2: 30-Day Death, Logistic Regression, Model Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
PSYCH_Any	1	-0.2461	0.0750	10.7751	0.0010	elix Psychoses
DEPRESS_Any	1	-0.1059	0.0426	6.1909	0.0128	elix Depression

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
agyradm	1.053	1.050	1.056
male	0.980	0.928	1.034
black	0.487	0.435	0.545
hispa	0.651	0.600	0.707
asian	0.596	0.524	0.678
RURAL	1.027	0.915	1.152
other	0.753	0.662	0.856
ED_trans	1.161	1.029	1.309
HH_trans	1.150	0.971	1.361
BOTH_trans	1.229	0.795	1.899
SRC_nursing	1.734	1.590	1.891
SRC_other	1.129	0.920	1.386
DIST_HV	1.000	0.999	1.001
DIST_MV	1.001	0.999	1.003
DIST_LV	0.999	0.996	1.001
POVERTY	0.997	0.994	1.000
COLLEGE	0.995	0.993	0.998
FacialPalsy_Any	0.905	0.839	0.976
Dysathria_Any	0.672	0.627	0.720
AnyPostStrokeDis_Any	0.935	0.810	1.080
Aphasia_Any	1.322	1.246	1.403
Hemiplegia_Hemipares	1.753	1.640	1.873
OtherParalysis_Any	1.368	1.109	1.688
Hemineglect_Any	1.337	1.038	1.721
VisionLoss_Any	0.827	0.713	0.960
Apraxia_Any	0.422	0.256	0.695
Ataxia_Any	0.410	0.356	0.473
ALTLOC_Any	4.999	4.429	5.641
SeizureDis_Any	1.370	1.261	1.488

Appendix N-2: 30-Day Death, Logistic Regression, Model Results

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
ConDevEye_Any	3.403	1.521	7.614
OCerISOS_Any	0.837	0.698	1.003
TPN_Any	1.653	1.172	2.331
Dysphagia_Any	1.179	1.086	1.279
AdmGlucose_Any	1.151	0.975	1.360
AcuMyoInf_Any	2.244	1.973	2.553
LSVHRD_Any	0.917	0.726	1.157
RSVHRD_Any	0.921	0.750	1.131
AtrFib_Any	1.611	1.537	1.689
CardArrest_Y	5.575	4.948	6.282
SysHRFail_Any	0.929	0.450	1.921
HisCHF_Any	1.546	1.458	1.640
AIscHRD_Any	1.067	1.010	1.128
Hyperlipidemia_Any	0.629	0.600	0.658
DemAlzDis_Any	1.291	1.178	1.415
LowPlaCnt_Any	1.023	0.521	2.009
BleDisExPlaDis_Any	1.675	1.231	2.280
Anticoagulation_Any	0.822	0.755	0.895
HypCoaSta_Any	1.519	1.080	2.136
Falls	0.987	0.882	1.104
SmokerCur	0.965	0.893	1.042
RecStroke	1.046	0.976	1.122
FormTIA	0.976	0.897	1.061
TIAReslvd	1.173	1.068	1.288
Fever48h	1.860	1.343	2.575
VALVE_Any	0.910	0.840	0.985
PULMCIRC_Any	0.965	0.836	1.114
PERIVASC_Any	1.216	1.124	1.316
HTN_C_Any	0.914	0.866	0.966
PARA_Any	1.289	1.200	1.384
NEURO_Any	1.045	0.952	1.148
CHRNLUNG_Any	1.044	0.974	1.119
DM_Any	1.113	1.051	1.180
DMCX_Any	1.056	0.960	1.161
HYPOTHY_Any	0.852	0.798	0.910

Appendix N-2: 30-Day Death, Logistic Regression, Model Results

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
RENLFAIL_Any	1.300	1.206	1.402
LIVER_Any	1.504	1.226	1.845
ULCER_Any	1.577	0.625	3.982
AIDS_Any	1.281	0.239	6.859
LYMPH_Any	1.422	1.019	1.985
METS_Any	7.095	6.061	8.304
TUMOR_Any	1.941	1.679	2.243
ARTH_Any	1.008	0.854	1.190
OBESE_Any	0.807	0.720	0.904
WGHTLOSS_Any	1.253	1.093	1.437
LYTES_Any	1.281	1.206	1.361
BLDLOSS_Any	0.991	0.747	1.315
ANEMDEF_Any	0.947	0.884	1.014
ALCOHOL_Any	0.960	0.831	1.109
DRUG_Any	1.282	1.019	1.613
PSYCH_Any	0.782	0.675	0.906
DEPRESS_Any	0.900	0.828	0.978

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	82.9	**Somers' D**	0.663
Percent Discordant	16.7	**Gamma**	0.665
Percent Tied	0.4	**Tau-a**	0.132
Pairs	1,027,646,634	**c**	0.831

group	N	Observed	Predicted	Difference	95% CI of predicted death
1	10,202	108	78.11	-29.89	(63.63,96.50)
2	10,203	128	164.80	36.80	(136.00,200.77)
3	10,203	198	256.17	58.17	(212.59,310.11)
4	10,203	276	371.42	95.42	(309.37,447.45)
5	10,203	449	521.19	72.19	(435.76,625.15)
6	10,203	663	723.35	60.35	(606.78,864.49)
7	10,203	949	1,003.49	54.49	(844.19,1193.93)
8	10,203	1591	1,434.77	-156.23	(1210.26,1699.17)

Appendix N-2: 30-Day Death, Logistic Regression, Model Results

group	N	Observed	Predicted	Difference	95% CI of predicted death
9	10,203	2,537	2,204.57	-332.43	(1872.25,2583.69)
10	10,208	4,521	4,624.68	103.68	(4096.55,5162.66)
	102,034	**11,420**	**11,382.6**	**-37.44**	**(.,.)**

Appendix N-3:

30 Day Readmission, Logistic Regression, Model Results

Appendix N-3: 30-Day Readmission, Logistic Regression, Model Results

Model Information		
Data Set	WORK.MODEL_VARS_READ	
Response Variable	readmit_30d	ReAdmit 30 days after episode discharge date
Number of Response Levels	2	
Cluster Variable	oshpd_id	Index Hosp Id
Number of Clusters	338	
Model	Binary Logit	
Optimization Technique	Fisher's Scoring	
Variance Adjustment	Degrees of Freedom (DF)	

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

Number of Observations Read	96,276
Number of Observations Used	95,933

Response Profile		
Ordered Value	**readmit_30d**	**Total Frequency**
1	0	83,052
2	1	12,881

Appendix N-3: 30-Day Readmission, Logistic Regression, Model Results

Probability modeled is readmit_30d=1.

Note: 343 observations were deleted due to missing values for the response or explanatory variables.

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

Model Fit Statistics		
Criterion	**Intercept Only**	**Intercept and Covariates**
AIC	75,678.826	73,549.706
SC	75,688.297	74,326.361
-2 Log L	75,676.826	73,385.706

R-Square	0.0236	**Max-rescaled R-Square**	0.0433

Testing Global Null Hypothesis: BETA=0			
Test	**Chi-Square**	**DF**	**Pr > ChiSq**
Likelihood Ratio	2,291.1198	81	<.0001
Score	2,495.0598	81	<.0001
Wald	3,346.9603	81	<.0001

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
Intercept	1	-2.6808	0.0834	1,033.9122	<.0001	Intercept: readmit_30d=0
agyradm	1	0.00373	0.000876	18.1607	<.0001	Age in Years at Admission
male	1	0.0365	0.0197	3.4287	0.0641	1=male
black	1	0.0920	0.0330	7.7704	0.0053	1=black
hispa	1	0.0253	0.0301	0.7068	0.4005	1=hispanic
asian	1	0.0190	0.0374	0.2584	0.6112	1=asian
RURAL	1	-0.1001	0.0542	3.4114	0.0647	>= 40% Populations are rural dwellers
other	1	-0.0698	0.0584	1.4255	0.2325	1=other race-ethnicity
ED_trans	1	0.0250	0.0476	0.2757	0.5995	0/1 ED transfer
HH_trans	1	0.3982	0.0454	76.9509	<.0001	0/1 HH transfer
BOTH_trans	1	0.3762	0.1536	5.9941	0.0144	0/1 ED + HH transfer
SRC_nursing	1	-0.00178	0.0446	0.0016	0.9682	1=nursing source of Admit

Appendix N-3: 30-Day Readmission, Logistic Regression, Model Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
SRC_other	1	-0.1424	0.0888	2.5696	0.1089	1=other source of Admit
DIST_HV	1	-0.00236	0.000459	26.4951	<.0001	
DIST_MV	1	-0.00037	0.00112	0.1066	0.7440	
DIST_LV	1	0.00267	0.00103	6.6841	0.0097	
POVERTY	1	0.00106	0.000857	1.5171	0.2181	% Individuals w/Income <200% Poverty
COLLEGE	1	-0.00043	0.00103	0.1747	0.6760	% Adults with 4 or more yrs college
FacialPalsy_Any	1	-0.1141	0.0345	10.9655	0.0009	Facial palsy
Dysathria_Any	1	-0.0525	0.0281	3.4791	0.0621	Dysarthria (inability to articulate)
AnyPostStrokeDis_Any	1	0.00569	0.0618	0.0085	0.9266	Any post-stroke disability
Aphasia_Any	1	0.0327	0.0276	1.4040	0.2360	Aphasia
Hemiplegia_Hemipares	1	0.0312	0.0263	1.4077	0.2354	Hemiplegia/Hemiparesis
OtherParalysis_Any	1	0.0288	0.0857	0.1127	0.7371	Other paralysis
Hemineglect_Any	1	-0.0390	0.1147	0.1156	0.7339	Hemineglect
VisionLoss_Any	1	0.0796	0.0639	1.5524	0.2128	Vision loss
Apraxia_Any	1	-0.1238	0.1512	0.6703	0.4129	Apraxia
Ataxia_Any	1	-0.0725	0.0379	3.6672	0.0555	Ataxia
ALTLOC_Any	1	-0.0810	0.0636	1.6240	0.2025	Decreased consciousness, altered mental status, coma
SeizureDis_Any	1	0.1989	0.0390	25.9581	<.0001	Seizure or seizure disorder
ConDevEye_Any	1	-0.7427	0.7444	0.9954	0.3184	Conjugate deviation of eyes
OCerISOS_Any	1	-0.0324	0.0907	0.1277	0.7208	Other cerebral ischemic signs or symptoms
TPN_Any	1	0.1018	0.1432	0.5049	0.4773	Perenteral nutrition
Dysphagia_Any	1	0.2471	0.0352	49.3453	<.0001	Dysphagia
AdmGlucose_Any	1	-0.0151	0.0673	0.0501	0.8229	Admission elevated glucose
AcuMyoInf_Any	1	0.1501	0.0748	4.0275	0.0448	Acute myocardial infarction
LSVHRD_Any	1	-0.0799	0.0918	0.7591	0.3836	Left sided valvular heart disease
RSVHRD_Any	1	-0.2070	0.0934	4.9099	0.0267	Right sided valvular heart disease
AtrFib_Any	1	0.1164	0.0282	17.0672	<.0001	Atrial fibrillation
CardArrest_Y	1	0.2560	0.0732	12.2371	0.0005	cx Cardiopulmonary arrest
SysHRFail_Any	1	0.0929	0.3606	0.0664	0.7967	Systolic heart failure
HisCHF_Any	1	0.1752	0.0286	37.5546	<.0001	History of CHF (L heart failure, cardiomyopathy)
AIscHRD_Any	1	0.1101	0.0215	26.1725	<.0001	Any Ischemic Heart Disease: CAD, angina, AMI, prior MI
Hyperlipidemia_Any	1	-0.0936	0.0210	19.8297	<.0001	Hyperlipidemia
DemAlzDis_Any	1	-0.00020	0.0384	0.0000	0.9958	Dementia or Alzheimers Disease
LowPlaCnt_Any	1	0.3400	0.2256	2.2719	0.1317	Low platelet count

Appendix N-3: 30-Day Readmission, Logistic Regression, Model Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
BleDisExPlaDis_Any	1	0.0501	0.1387	0.1308	0.7176	Bleeding Disorders (no platelet disorders)
Anticoagulation_Any	1	0.0465	0.0387	1.4395	0.2302	Anticoagulation
HypCoaSta_Any	1	0.2844	0.1245	5.2154	0.0224	Hypercoagulable state
Falls	1	0.1225	0.0497	6.0697	0.0138	Falls
SmokerCur	1	0.0249	0.0301	0.6863	0.4074	Current Smoker
RecStroke	1	0.0876	0.0261	11.2579	0.0008	Recurrent Strokes
FormTIA	1	0.1570	0.0365	18.4997	<.0001	Former TIA
TIAReslvd	1	0.2023	0.0381	28.1710	<.0001	TIA resolved
Fever48h	1	0.2779	0.1795	2.3980	0.1215	Fever 48 h
VALVE_Any	1	0.0745	0.0413	3.2516	0.0714	elix Valvular disease
PULMCIRC_Any	1	0.1314	0.0729	3.2428	0.0717	elix Pulmonary circulation disease
PERIVASC_Any	1	0.1048	0.0319	10.7590	0.0010	elix Peripheral vascular disease
HTN_C_Any	1	0.1090	0.0214	25.9017	<.0001	elix Hypertension
PARA_Any	1	0.1974	0.0388	25.9053	<.0001	elix Paralysis
NEURO_Any	1	0.0562	0.0394	2.0370	0.1535	elix Other neurological disorders
CHRNLUNG_Any	1	0.1114	0.0291	14.6569	0.0001	elix Chronic pulmonary disease
DM_Any	1	0.1421	0.0237	36.0260	<.0001	elix Diabetes w/o chronic complications
DMCX_Any	1	0.2812	0.0386	52.9450	<.0001	elix Diabetes w/ chronic complications
HYPOTHY_Any	1	-0.0139	0.0309	0.2025	0.6527	elix Hypothyroidism
RENLFAIL_Any	1	0.3291	0.0306	115.7611	<.0001	elix Renal failure
LIVER_Any	1	0.3429	0.0747	21.0935	<.0001	elix Liver disease
ULCER_Any	1	-0.00372	0.4816	0.0001	0.9938	elix Peptic ulcer Disease x bleeding
AIDS_Any	1	-0.1974	0.5523	0.1278	0.7207	elix Acquired immune deficiency syndrome
LYMPH_Any	1	0.5468	0.1256	18.9459	<.0001	elix Lymphoma
METS_Any	1	0.5460	0.0826	43.7060	<.0001	elix Metastatic cancer
TUMOR_Any	1	0.2409	0.0705	11.6672	0.0006	elix Solid tumor w/out metastasis
ARTH_Any	1	0.1311	0.0701	3.5005	0.0614	elix Rheumatoid arthritis/collagen vas
OBESE_Any	1	-0.0426	0.0370	1.3282	0.2491	elix Obesity
WGHTLOSS_Any	1	0.3228	0.0663	23.7090	<.0001	elix Weight loss
LYTES_Any	1	0.1838	0.0247	55.3681	<.0001	elix Fluid and electrolyte disorders
BLDLOSS_Any	1	0.4288	0.1124	14.5581	0.0001	elix Chronic blood loss anemia
ANEMDEF_Any	1	0.2477	0.0257	92.9930	<.0001	elix Deficiency Anemias
ALCOHOL_Any	1	-0.0461	0.0552	0.6976	0.4036	elix Alcohol abuse
DRUG_Any	1	0.1331	0.0696	3.6564	0.0559	elix Drug abuse

Appendix N-3: 30-Day Readmission, Logistic Regression, Model Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
PSYCH_Any	1	0.1479	0.0546	7.3462	0.0067	elix Psychoses
DEPRESS_Any	1	0.0411	0.0328	1.5710	0.2101	elix Depression

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
agyradm	1.004	1.002	1.005
male	1.037	0.998	1.078
black	1.096	1.028	1.170
hispa	1.026	0.967	1.088
asian	1.019	0.947	1.097
RURAL	0.905	0.814	1.006
other	0.933	0.832	1.046
ED_trans	1.025	0.934	1.126
HH_trans	1.489	1.362	1.628
BOTH_trans	1.457	1.078	1.969
SRC_nursing	0.998	0.915	1.089
SRC_other	0.867	0.729	1.032
DIST_HV	0.998	0.997	0.999
DIST_MV	1.000	0.997	1.002
DIST_LV	1.003	1.001	1.005
POVERTY	1.001	0.999	1.003
COLLEGE	1.000	0.998	1.002
FacialPalsy_Any	0.892	0.834	0.954
Dysathria_Any	0.949	0.898	1.003
AnyPostStrokeDis_Any	1.006	0.891	1.135
Aphasia_Any	1.033	0.979	1.091
Hemiplegia_Hemipares	1.032	0.980	1.086
OtherParalysis_Any	1.029	0.870	1.217
Hemineglect_Any	0.962	0.768	1.204
VisionLoss_Any	1.083	0.955	1.227
Apraxia_Any	0.884	0.657	1.188
Ataxia_Any	0.930	0.864	1.002
ALTLOC_Any	0.922	0.814	1.045
SeizureDis_Any	1.220	1.130	1.317

Appendix N-3: 30-Day Readmission, Logistic Regression, Model Results

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
ConDevEye_Any	0.476	0.111	2.047
OCerISOS_Any	0.968	0.810	1.157
TPN_Any	1.107	0.836	1.466
Dysphagia_Any	1.280	1.195	1.372
AdmGlucose_Any	0.985	0.863	1.124
AcuMyoInf_Any	1.162	1.004	1.345
LSVHRD_Any	0.923	0.771	1.105
RSVHRD_Any	0.813	0.677	0.976
AtrFib_Any	1.123	1.063	1.187
CardArrest_Y	1.292	1.119	1.491
SysHRFail_Any	1.097	0.541	2.225
HisCHF_Any	1.191	1.127	1.260
AIscHRD_Any	1.116	1.070	1.165
Hyperlipidemia_Any	0.911	0.874	0.949
DemAlzDis_Any	1.000	0.927	1.078
LowPlaCnt_Any	1.405	0.903	2.186
BleDisExPlaDis_Any	1.051	0.801	1.380
Anticoagulation_Any	1.048	0.971	1.130
HypCoaSta_Any	1.329	1.041	1.696
Falls	1.130	1.025	1.246
SmokerCur	1.025	0.967	1.087
RecStroke	1.092	1.037	1.149
FormTIA	1.170	1.089	1.257
TIAReslvd	1.224	1.136	1.319
Fever48h	1.320	0.929	1.877
VALVE_Any	1.077	0.994	1.168
PULMCIRC_Any	1.140	0.988	1.316
PERIVASC_Any	1.110	1.043	1.182
HTN_C_Any	1.115	1.069	1.163
PARA_Any	1.218	1.129	1.314
NEURO_Any	1.058	0.979	1.143
CHRNLUNG_Any	1.118	1.056	1.184
DM_Any	1.153	1.100	1.207
DMCX_Any	1.325	1.228	1.429
HYPOTHY_Any	0.986	0.928	1.048

Appendix N-3: 30-Day Readmission, Logistic Regression, Model Results

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
RENLFAIL_Any	1.390	1.309	1.476
LIVER_Any	1.409	1.217	1.631
ULCER_Any	0.996	0.388	2.560
AIDS_Any	0.821	0.278	2.423
LYMPH_Any	1.728	1.351	2.210
METS_Any	1.726	1.468	2.030
TUMOR_Any	1.272	1.108	1.461
ARTH_Any	1.140	0.994	1.308
OBESE_Any	0.958	0.891	1.030
WGHTLOSS_Any	1.381	1.213	1.573
LYTES_Any	1.202	1.145	1.261
BLDLOSS_Any	1.535	1.232	1.914
ANEMDEF_Any	1.281	1.218	1.347
ALCOHOL_Any	0.955	0.857	1.064
DRUG_Any	1.142	0.997	1.309
PSYCH_Any	1.159	1.042	1.290
DEPRESS_Any	1.042	0.977	1.111

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	62.3	**Somers' D**	0.259
Percent Discordant	36.4	**Gamma**	0.262
Percent Tied	1.3	**Tau-a**	0.060
Pairs	1,069,792,812	**c**	0.629

Appendix N-3: 30-Day Readmission, Logistic Regression, Model Results

group	N	Observed	Predicted	Difference	95% CI of predicted death
1	9,627	681	694.68	13.68	(609.89,795.49)
2	9,628	741	842.06	101.06	(752.81,943.16)
3	9,628	848	923.40	75.40	(824.24,1035.10)
4	9,628	1,025	1,004.43	-20.57	(891.50,1132.04)
5	9,628	1,110	1,092.77	-17.23	(964.69,1237.80)
6	9,628	1,238	1,196.47	-41.53	(1050.60,1361.71)
7	9,628	1,438	1,325.75	-112.25	(1156.32,1518.99)
8	9,628	1,592	1,500.99	-91.01	(1301.45,1728.66)
9	9,628	1,844	1,775.45	-68.55	(1531.70,2051.74)
10	9,625	2,409	2,525.06	116.06	(2158.74,2931.57)
	96,276	**12,926**	**12,881.1**	**-44.95**	**(.,.)**

Appendix N-4:

30 Day No Hospital Death, Logistic Regression, Model Results

Appendix N-4: 30 Day No Hospital Death, Logistic Regression, Model Results

Model Information		
Data Set	WORK.MODEL_VARS	
Response Variable	dth30d_nohspdeath	30D mortality w/o deaths in hospital
Number of Response Levels	2	
Cluster Variable	oshpd_id	Index Hosp Id
Number of Clusters	338	
Model	Binary Logit	
Optimization Technique	Fisher's Scoring	
Variance Adjustment	Degrees of Freedom (DF)	

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

Number of Observations Read	102,034
Number of Observations Used	101,669

Response Profile		
Ordered Value	**dth30d_nohspdeath**	**Total Frequency**
1	0	95,563
2	1	6,106

Appendix N-4: 30 Day No Hospital Death, Logistic Regression, Model Results

Probability modeled is dth30d_nohspdeath=1.

Note: 365 observations were deleted due to missing values for the response or explanatory variables.

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

Model Fit Statistics		
Criterion	**Intercept Only**	**Intercept and Covariates**
AIC	46,185.364	38,050.474
SC	46,194.894	38,831.891
-2 Log L	46,183.364	37,886.474

R-Square	0.0784	**Max-rescaled R-Square**	0.2147

Testing Global Null Hypothesis: BETA=0			
Test	**Chi-Square**	**DF**	**Pr > ChiSq**
Likelihood Ratio	8,296.8899	81	<.0001
Score	8,602.5312	81	<.0001
Wald	8,219.6738	81	<.0001

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
Intercept	1	-7.7041	0.1677	2,110.7160	<.0001	Intercept: dth30d_nohspdeath=0
agyradm	1	0.0643	0.00172	1,396.7396	<.0001	Age in Years at Admission
male	1	-0.0151	0.0311	0.2341	0.6285	1=male
black	1	-0.7860	0.0726	117.2032	<.0001	1=black
hispa	1	-0.4744	0.0557	72.5977	<.0001	1=hispanic
asian	1	-0.6699	0.0781	73.6358	<.0001	1=asian
RURAL	1	0.0944	0.0780	1.4627	0.2265	>= 40% Populations are rural dwellers
other	1	-0.3410	0.0867	15.4519	<.0001	1=other race-ethnicity
ED_trans	1	0.1884	0.0647	8.4711	0.0036	0/1 ED transfer
HH_trans	1	-0.2443	0.0853	8.2005	0.0042	0/1 HH transfer
BOTH_trans	1	0.1570	0.2904	0.2924	0.5887	0/1 ED + HH transfer

Appendix N-4: 30 Day No Hospital Death, Logistic Regression, Model Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
SRC_nursing	1	0.5317	0.0521	104.0067	<.0001	1=nursing source of Admit
SRC_other	1	0.1001	0.1353	0.5475	0.4593	1=other source of Admit
DIST_HV	1	-0.00152	0.000594	6.5656	0.0104	
DIST_MV	1	0.00307	0.00135	5.1510	0.0232	
DIST_LV	1	-0.00183	0.00125	2.1647	0.1412	
POVERTY	1	-0.00571	0.00172	10.9812	0.0009	% Individuals w/Income <200% Poverty
COLLEGE	1	-0.0110	0.00171	41.8385	<.0001	% Adults with 4 or more yrs college
FacialPalsy_Any	1	-0.0644	0.0485	1.7653	0.1840	Facial palsy
Dysathria_Any	1	-0.2680	0.0428	39.1158	<.0001	Dysarthria (inability to articulate)
AnyPostStrokeDis_Any	1	0.0218	0.0921	0.0560	0.8130	Any post-stroke disability
Aphasia_Any	1	0.3018	0.0365	68.2146	<.0001	Aphasia
Hemiplegia_Hemipares	1	0.5053	0.0365	191.6989	<.0001	Hemiplegia/Hemiparesis
OtherParalysis_Any	1	0.2255	0.1388	2.6381	0.1043	Other paralysis
Hemineglect_Any	1	0.1713	0.1441	1.4130	0.2346	Hemineglect
VisionLoss_Any	1	-0.1147	0.0926	1.5351	0.2153	Vision loss
Apraxia_Any	1	-0.6583	0.2867	5.2732	0.0217	Apraxia
Ataxia_Any	1	-0.7209	0.0883	66.5904	<.0001	Ataxia
ALTLOC_Any	1	0.7442	0.0645	133.1235	<.0001	Decreased consciousness, altered mental status, coma
SeizureDis_Any	1	0.1790	0.0547	10.6918	0.0011	Seizure or seizure disorder
ConDevEye_Any	1	0.1270	0.5997	0.0449	0.8323	Conjugate deviation of eyes
OCerISOS_Any	1	-0.2712	0.1406	3.7184	0.0538	Other cerebral ischemic signs or symptoms
TPN_Any	1	0.3043	0.1616	3.5459	0.0597	Perenteral nutrition
Dysphagia_Any	1	0.5030	0.0436	132.8235	<.0001	Dysphagia
AdmGlucose_Any	1	0.0131	0.0974	0.0181	0.8931	Admission elevated glucose
AcuMyoInf_Any	1	0.3738	0.0973	14.7484	0.0001	Acute myocardial infarction
LSVHRD_Any	1	-0.1529	0.1287	1.4112	0.2349	Left sided valvular heart disease
RSVHRD_Any	1	0.1602	0.1165	1.8909	0.1691	Right sided valvular heart disease
AtrFib_Any	1	0.2845	0.0336	71.5747	<.0001	Atrial fibrillation
CardArrest_Y	1	-0.5891	0.1065	30.6196	<.0001	cx Cardiopulmonary arrest
SysHRFail_Any	1	0.1229	0.4219	0.0849	0.7708	Systolic heart failure
HisCHF_Any	1	0.3598	0.0338	113.2618	<.0001	History of CHF (L heart failure, cardiomyopathy)
AIscHRD_Any	1	0.0204	0.0362	0.3167	0.5736	Any Ischemic Heart Disease: CAD, angina, AMI, prior MI
Hyperlipidemia_Any	1	-0.4154	0.0320	168.8398	<.0001	Hyperlipidemia

Appendix N-4: 30 Day No Hospital Death, Logistic Regression, Model Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
DemAlzDis_Any	1	0.4292	0.0500	73.6770	<.0001	Dementia or Alzheimers Disease
LowPlaCnt_Any	1	0.1042	0.4133	0.0636	0.8009	Low platelet count
BleDisExPlaDis_Any	1	-0.0720	0.2027	0.1263	0.7223	Bleeding Disorders (no platelet disorders)
Anticoagulation_Any	1	-0.2202	0.0498	19.5909	<.0001	Anticoagulation
HypCoaSta_Any	1	0.6398	0.1881	11.5710	0.0007	Hypercoagulable state
Falls	1	-0.0104	0.0646	0.0260	0.8718	Falls
SmokerCur	1	0.00457	0.0492	0.0086	0.9260	Current Smoker
RecStroke	1	0.1567	0.0421	13.8431	0.0002	Recurrent Strokes
FormTIA	1	-0.0422	0.0558	0.5711	0.4498	Former TIA
TIAReslvd	1	0.2037	0.0598	11.5901	0.0007	TIA resolved
Fever48h	1	-0.1796	0.2538	0.5007	0.4792	Fever 48 h
VALVE_Any	1	-0.1390	0.0503	7.6461	0.0057	elix Valvular disease
PULMCIRC_Any	1	-0.1270	0.0874	2.1105	0.1463	elix Pulmonary circulation disease
PERIVASC_Any	1	0.1030	0.0506	4.1434	0.0418	elix Peripheral vascular disease
HTN_C_Any	1	-0.0718	0.0352	4.1731	0.0411	elix Hypertension
PARA_Any	1	0.1569	0.0466	11.3379	0.0008	elix Paralysis
NEURO_Any	1	0.1802	0.0516	12.2113	0.0005	elix Other neurological disorders
CHRNLUNG_Any	1	-0.0188	0.0473	0.1580	0.6910	elix Chronic pulmonary disease
DM_Any	1	0.0873	0.0370	5.5619	0.0184	elix Diabetes w/o chronic complications
DMCX_Any	1	0.0724	0.0643	1.2689	0.2600	elix Diabetes w/ chronic complications
HYPOTHY_Any	1	-0.1177	0.0375	9.8458	0.0017	elix Hypothyroidism
RENLFAIL_Any	1	0.1845	0.0485	14.4818	0.0001	elix Renal failure
LIVER_Any	1	0.3636	0.1298	7.8503	0.0051	elix Liver disease
ULCER_Any	1	0.2743	0.7279	0.1420	0.7063	elix Peptic ulcer Disease x bleeding
AIDS_Any	1	1.0553	1.1159	0.8944	0.3443	elix Acquired immune deficiency syndrome
LYMPH_Any	1	0.4807	0.1808	7.0665	0.0079	elix Lymphoma
METS_Any	1	1.9434	0.0866	504.1008	<.0001	elix Metastatic cancer
TUMOR_Any	1	0.6794	0.0897	57.4174	<.0001	elix Solid tumor w/out metastasis
ARTH_Any	1	0.0540	0.1031	0.2749	0.6001	elix Rheumatoid arthritis/collagen vas
OBESE_Any	1	-0.1660	0.0743	4.9922	0.0255	elix Obesity
WGHTLOSS_Any	1	0.3889	0.0757	26.3887	<.0001	elix Weight loss
LYTES_Any	1	0.2030	0.0366	30.7155	<.0001	elix Fluid and electrolyte disorders
BLDLOSS_Any	1	0.00214	0.1785	0.0001	0.9904	elix Chronic blood loss anemia
ANEMDEF_Any	1	0.0787	0.0392	4.0330	0.0446	elix Deficiency Anemias
ALCOHOL_Any	1	-0.1895	0.1157	2.6843	0.1013	elix Alcohol abuse

Appendix N-4: 30 Day No Hospital Death, Logistic Regression, Model Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
DRUG_Any	1	-0.2996	0.2323	1.6630	0.1972	elix Drug abuse
PSYCH_Any	1	-0.0597	0.0866	0.4749	0.4907	elix Psychoses
DEPRESS_Any	1	0.0380	0.0522	0.5301	0.4666	elix Depression

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
agyradm	1.066	1.063	1.070
male	0.985	0.927	1.047
black	0.456	0.395	0.525
hispa	0.622	0.558	0.694
asian	0.512	0.439	0.596
RURAL	1.099	0.943	1.281
other	0.711	0.600	0.843
ED_trans	1.207	1.063	1.371
HH_trans	0.783	0.663	0.926
BOTH_trans	1.170	0.662	2.067
SRC_nursing	1.702	1.536	1.885
SRC_other	1.105	0.848	1.441
DIST_HV	0.998	0.997	1.000
DIST_MV	1.003	1.000	1.006
DIST_LV	0.998	0.996	1.001
POVERTY	0.994	0.991	0.998
COLLEGE	0.989	0.986	0.992
FacialPalsy_Any	0.938	0.853	1.031
Dysathria_Any	0.765	0.703	0.832
AnyPostStrokeDis_Any	1.022	0.853	1.224
Aphasia_Any	1.352	1.259	1.453
Hemiplegia_Hemipares	1.658	1.543	1.780
OtherParalysis_Any	1.253	0.954	1.645
Hemineglect_Any	1.187	0.895	1.574
VisionLoss_Any	0.892	0.744	1.069
Apraxia_Any	0.518	0.295	0.908
Ataxia_Any	0.486	0.409	0.578
ALTLOC_Any	2.105	1.855	2.388

Appendix N-4: 30 Day No Hospital Death, Logistic Regression, Model Results

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
SeizureDis_Any	1.196	1.074	1.332
ConDevEye_Any	1.135	0.351	3.678
OCerISOS_Any	0.762	0.579	1.004
TPN_Any	1.356	0.988	1.861
Dysphagia_Any	1.654	1.518	1.801
AdmGlucose_Any	1.013	0.837	1.226
AcuMyoInf_Any	1.453	1.201	1.759
LSVHRD_Any	0.858	0.667	1.104
RSVHRD_Any	1.174	0.934	1.475
AtrFib_Any	1.329	1.244	1.420
CardArrest_Y	0.555	0.450	0.684
SysHRFail_Any	1.131	0.495	2.586
HisCHF_Any	1.433	1.341	1.531
AIscHRD_Any	1.021	0.951	1.096
Hyperlipidemia_Any	0.660	0.620	0.703
DemAlzDis_Any	1.536	1.393	1.694
LowPlaCnt_Any	1.110	0.494	2.495
BleDisExPlaDis_Any	0.930	0.625	1.384
Anticoagulation_Any	0.802	0.728	0.885
HypCoaSta_Any	1.896	1.311	2.741
Falls	0.990	0.872	1.123
SmokerCur	1.005	0.912	1.106
RecStroke	1.170	1.077	1.270
FormTIA	0.959	0.859	1.070
TIAReslvd	1.226	1.090	1.378
Fever48h	0.836	0.508	1.374
VALVE_Any	0.870	0.789	0.960
PULMCIRC_Any	0.881	0.742	1.045
PERIVASC_Any	1.108	1.004	1.224
HTN_C_Any	0.931	0.869	0.997
PARA_Any	1.170	1.068	1.282
NEURO_Any	1.197	1.082	1.325
CHRNLUNG_Any	0.981	0.894	1.077
DM_Any	1.091	1.015	1.173
DMCX_Any	1.075	0.948	1.219

Appendix N-4: 30 Day No Hospital Death, Logistic Regression, Model Results

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
HYPOTHY_Any	0.889	0.826	0.957
RENLFAIL_Any	1.203	1.094	1.322
LIVER_Any	1.438	1.115	1.855
ULCER_Any	1.316	0.316	5.479
AIDS_Any	2.873	0.322	25.593
LYMPH_Any	1.617	1.135	2.305
METS_Any	6.982	5.893	8.273
TUMOR_Any	1.973	1.655	2.352
ARTH_Any	1.056	0.862	1.292
OBESE_Any	0.847	0.732	0.980
WGHTLOSS_Any	1.475	1.272	1.711
LYTES_Any	1.225	1.140	1.316
BLDLOSS_Any	1.002	0.706	1.422
ANEMDEF_Any	1.082	1.002	1.168
ALCOHOL_Any	0.827	0.660	1.038
DRUG_Any	0.741	0.470	1.169
PSYCH_Any	0.942	0.795	1.116
DEPRESS_Any	1.039	0.938	1.151

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	82.1	**Somers' D**	0.649
Percent Discordant	17.2	**Gamma**	0.653
Percent Tied	0.6	**Tau-a**	0.073
Pairs	583,507,678	**c**	0.824

Appendix N-4: 30 Day No Hospital Death, Logistic Regression, Model Results

group	N	Observed	Predicted	Difference	95% CI of predicted death
1	10,202	61	29.85	-31.15	(22.81,39.57)
2	10,203	49	69.54	20.54	(54.29,90.36)
3	10,203	76	115.90	39.90	(91.51,148.43)
4	10,203	149	176.93	27.93	(140.36,225.28)
5	10,203	206	260.69	54.69	(207.63,330.09)
6	10,203	339	373.16	34.16	(298.54,469.73)
7	10,203	521	529.89	8.89	(425.48,663.47)
8	10,203	825	772.70	-52.30	(622.04,963.62)
9	10,203	1,333	1,199.32	-133.68	(968.40,1486.18)
10	10,208	2,568	2,578.02	10.02	(2134.35,3082.82)
	102,034	**6,127**	**6,106.00**	**-21.00**	**(.,.)**

Appendix N-5:

30-Day Survival, COX Survival Regression, Model Results

Model Information		
Data Set	WORK.MODEL_VARS	
Dependent Variable	survive30d	Days Survived from index admit (max=30)
Censoring Variable	censor30d	1=Censored at 30days
Censoring Value(s)	1	
Ties Handling	BRESLOW	

Number of Observations Read	102,034
Number of Observations Used	101,669

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

Appendix N-5: 30-Day Survival, COX Survival Regression, Model Results

Model Fit Statistics		
Criterion	**Without Covariates**	**With Covariates**
-2 LOG L	135,533.78	121,295.05
AIC	135,533.78	121,457.05
SBC	135,533.78	122,051.57

Testing Global Null Hypothesis: BETA=0			
Test	**Chi-Square**	**DF**	**Pr > ChiSq**
Likelihood Ratio	14,238.7275	81	<.0001
Score	18,822.1642	81	<.0001
Wald	14,919.4358	81	<.0001

Analysis of Maximum Likelihood Estimates								
Parameter	**DF**	**Parameter Estimate**	**Standard Error**	**Chi-Square**	**Pr > ChiSq**	**Hazard Ratio**	**95% Hazard Ratio Confidence Limits**	
agyradm	1	0.04630	0.00104	1,998.7195	<.0001	1.047	1.045	1.050
male	1	-0.03877	0.02054	3.5626	0.0591	0.962	0.924	1.001
black	1	-0.58959	0.04753	153.8816	<.0001	0.555	0.505	0.609
hispa	1	-0.30011	0.03303	82.5582	<.0001	0.741	0.694	0.790
asian	1	-0.29262	0.04083	51.3657	<.0001	0.746	0.689	0.808
RURAL	1	-0.00290	0.05304	0.0030	0.9564	0.997	0.899	1.106
other	1	-0.20345	0.05909	11.8545	0.0006	0.816	0.727	0.916
ED_trans	1	0.14841	0.04343	11.6800	0.0006	1.160	1.065	1.263
HH_trans	1	0.06881	0.04363	2.4879	0.1147	1.071	0.983	1.167
BOTH_trans	1	0.25796	0.16167	2.5459	0.1106	1.294	0.943	1.777
SRC_nursing	1	0.42684	0.03061	194.4518	<.0001	1.532	1.443	1.627
SRC_other	1	0.06948	0.09044	0.5902	0.4423	1.072	0.898	1.280
DIST_HV	1	0.0000967	0.00106	0.0083	0.9274	1.000	0.998	1.002
DIST_MV	1	-0.0006932	0.00153	0.2050	0.6507	0.999	0.996	1.002
DIST_LV	1	0.0005765	0.00119	0.2331	0.6292	1.001	0.998	1.003
POVERTY	1	-0.0003228	0.00114	0.0800	0.7772	1.000	0.997	1.002
COLLEGE	1	-0.0001789	0.00119	0.0227	0.8802	1.000	0.997	1.002
FacialPalsy_Any	1	-0.07045	0.03261	4.6672	0.0307	0.932	0.874	0.993
Dysathria_Any	1	-0.33089	0.03101	113.8895	<.0001	0.718	0.676	0.763
AnyPostStrokeDis_Any	1	-0.05659	0.06396	0.7828	0.3763	0.945	0.834	1.071

Appendix N-5: 30-Day Survival, COX Survival Regression, Model Results

Analysis of Maximum Likelihood Estimates								
Parameter	**DF**	**Parameter Estimate**	**Standard Error**	**Chi-Square**	**Pr > ChiSq**	**Hazard Ratio**	**95% Hazard Ratio Confidence Limits**	
Aphasia_Any	1	0.21182	0.02389	78.6201	<.0001	1.236	1.179	1.295
Hemiplegia_Hemipares	1	0.47934	0.02273	444.7477	<.0001	1.615	1.545	1.689
OtherParalysis_Any	1	0.29075	0.08665	11.2588	0.0008	1.337	1.129	1.585
Hemineglect_Any	1	0.26297	0.09103	8.3458	0.0039	1.301	1.088	1.555
VisionLoss_Any	1	-0.15422	0.06654	5.3721	0.0205	0.857	0.752	0.976
Apraxia_Any	1	-0.71081	0.20984	11.4740	0.0007	0.491	0.326	0.741
Ataxia_Any	1	-0.80383	0.06578	149.3438	<.0001	0.448	0.393	0.509
ALTLOC_Any	1	1.19874	0.03102	1,493.7725	<.0001	3.316	3.120	3.524
SeizureDis_Any	1	0.26066	0.03493	55.6988	<.0001	1.298	1.212	1.390
ConDevEye_Any	1	0.83990	0.28068	8.9543	0.0028	2.316	1.336	4.015
OCerISOS_Any	1	-0.15945	0.08687	3.3686	0.0665	0.853	0.719	1.011
TPN_Any	1	0.30309	0.09254	10.7266	0.0011	1.354	1.129	1.623
Dysphagia_Any	1	0.06263	0.02733	5.2525	0.0219	1.065	1.009	1.123
AdmGlucose_Any	1	0.14042	0.06555	4.5891	0.0322	1.151	1.012	1.309
AcuMyoInf_Any	1	0.47845	0.04890	95.7425	<.0001	1.614	1.466	1.776
LSVHRD_Any	1	0.02085	0.07971	0.0684	0.7937	1.021	0.873	1.194
RSVHRD_Any	1	-0.11930	0.07834	2.3194	0.1278	0.888	0.761	1.035
AtrFib_Any	1	0.37020	0.02136	300.3945	<.0001	1.448	1.389	1.510
CardArrest_Y	1	1.17681	0.03480	1,143.2166	<.0001	3.244	3.030	3.473
SysHRFail_Any	1	-0.06528	0.31870	0.0420	0.8377	0.937	0.502	1.750
HisCHF_Any	1	0.34243	0.02279	225.8244	<.0001	1.408	1.347	1.473
AIscHRD_Any	1	0.10088	0.02224	20.5788	<.0001	1.106	1.059	1.155
Hyperlipidemia_Any	1	-0.39335	0.02136	339.0763	<.0001	0.675	0.647	0.704
DemAlzDis_Any	1	0.21150	0.03199	43.7108	<.0001	1.236	1.160	1.315
LowPlaCnt_Any	1	0.05064	0.25199	0.0404	0.8407	1.052	0.642	1.724
BleDisExPlaDis_Any	1	0.34526	0.09098	14.4000	0.0001	1.412	1.182	1.688
Anticoagulation_Any	1	-0.11978	0.03437	12.1465	0.0005	0.887	0.829	0.949
HypCoaSta_Any	1	0.36847	0.12330	8.9300	0.0028	1.446	1.135	1.841
Falls	1	-0.01063	0.04488	0.0561	0.8129	0.989	0.906	1.080
SmokerCur	1	-0.02948	0.03118	0.8936	0.3445	0.971	0.913	1.032
RecStroke	1	0.04627	0.02728	2.8771	0.0898	1.047	0.993	1.105
FormTIA	1	-0.03817	0.03830	0.9932	0.3190	0.963	0.893	1.038
TIAReslvd	1	0.14181	0.03712	14.5980	0.0001	1.152	1.072	1.239
Fever48h	1	0.55878	0.13320	17.5986	<.0001	1.749	1.347	2.270

Appendix N-5: 30-Day Survival, COX Survival Regression, Model Results

Analysis of Maximum Likelihood Estimates								
Parameter	**DF**	**Parameter Estimate**	**Standard Error**	**Chi-Square**	**Pr > ChiSq**	**Hazard Ratio**	**95% Hazard Ratio Confidence Limits**	
VALVE_Any	1	-0.07624	0.03466	4.8373	0.0279	0.927	0.866	0.992
PULMCIRC_Any	1	-0.07426	0.05672	1.7140	0.1905	0.928	0.831	1.038
PERIVASC_Any	1	0.15358	0.03222	22.7250	<.0001	1.166	1.095	1.242
HTN_C_Any	1	-0.05086	0.02282	4.9677	0.0258	0.950	0.909	0.994
PARA_Any	1	0.18988	0.03007	39.8634	<.0001	1.209	1.140	1.283
NEURO_Any	1	0.04830	0.03214	2.2592	0.1328	1.049	0.985	1.118
CHRNLUNG_Any	1	0.06322	0.02663	5.6363	0.0176	1.065	1.011	1.122
DM_Any	1	0.09295	0.02393	15.0922	0.0001	1.097	1.047	1.150
DMCX_Any	1	0.05690	0.04166	1.8654	0.1720	1.059	0.976	1.149
HYPOTHY_Any	1	-0.12606	0.02669	22.3144	<.0001	0.882	0.837	0.929
RENLFAIL_Any	1	0.23267	0.02682	75.2764	<.0001	1.262	1.197	1.330
LIVER_Any	1	0.36604	0.08144	20.2025	<.0001	1.442	1.229	1.692
ULCER_Any	1	0.46853	0.35659	1.7263	0.1889	1.598	0.794	3.214
AIDS_Any	1	0.25342	0.71226	0.1266	0.7220	1.288	0.319	5.204
LYMPH_Any	1	0.27725	0.12238	5.1328	0.0235	1.319	1.038	1.677
METS_Any	1	1.45164	0.04800	914.7839	<.0001	4.270	3.887	4.691
TUMOR_Any	1	0.51942	0.05567	87.0564	<.0001	1.681	1.507	1.875
ARTH_Any	1	-0.02661	0.06448	0.1703	0.6798	0.974	0.858	1.105
OBESE_Any	1	-0.16322	0.04733	11.8904	0.0006	0.849	0.774	0.932
WGHTLOSS_Any	1	0.10821	0.04436	5.9495	0.0147	1.114	1.021	1.216
LYTES_Any	1	0.19378	0.02263	73.3409	<.0001	1.214	1.161	1.269
BLDLOSS_Any	1	-0.00952	0.10961	0.0075	0.9308	0.991	0.799	1.228
ANEMDEF_Any	1	-0.03112	0.02532	1.5110	0.2190	0.969	0.922	1.019
ALCOHOL_Any	1	-0.00530	0.06371	0.0069	0.9337	0.995	0.878	1.127
DRUG_Any	1	0.19655	0.10123	3.7703	0.0522	1.217	0.998	1.484
PSYCH_Any	1	-0.13162	0.06313	4.3463	0.0371	0.877	0.775	0.992
DEPRESS_Any	1	-0.09465	0.03540	7.1484	0.0075	0.910	0.849	0.975

Analysis of Maximum Likelihood Estimates	
Parameter	**Label**
agyradm	Age in Years at Admission
male	1=male
black	1=black
hispa	1=hispanic

Appendix N-5: 30-Day Survival, COX Survival Regression, Model Results

Analysis of Maximum Likelihood Estimates	
Parameter	**Label**
asian	1=asian
RURAL	>= 40% Populations are rural dwellers
other	1=other race-ethnicity
ED_trans	0/1 ED transfer
HH_trans	0/1 HH transfer
BOTH_trans	0/1 ED + HH transfer
SRC_nursing	1=nursing source of Admit
SRC_other	1=other source of Admit
DIST_HV	
DIST_MV	
DIST_LV	
POVERTY	% Individuals w/Income <200% Poverty
COLLEGE	% Adults with 4 or more yrs college
FacialPalsy_Any	Facial palsy
Dysathria_Any	Dysarthria (inability to articulate)
AnyPostStrokeDis_Any	Any post-stroke disability
Aphasia_Any	Aphasia
Hemiplegia_Hemipares	Hemiplegia/Hemiparesis
OtherParalysis_Any	Other paralysis
Hemineglect_Any	Hemineglect
VisionLoss_Any	Vision loss
Apraxia_Any	Apraxia
Ataxia_Any	Ataxia
ALTLOC_Any	Decreased consciousness, altered mental status, coma
SeizureDis_Any	Seizure or seizure disorder
ConDevEye_Any	Conjugate deviation of eyes
OCerISOS_Any	Other cerebral ischemic signs or symptoms
TPN_Any	Perenteral nutrition
Dysphagia_Any	Dysphagia
AdmGlucose_Any	Admission elevated glucose
AcuMyoInf_Any	Acute myocardial infarction
LSVHRD_Any	Left sided valvular heart disease
RSVHRD_Any	Right sided valvular heart disease
AtrFib_Any	Atrial fibrillation
CardArrest_Y	cx Cardiopulmonary arrest
SysHRFail_Any	Systolic heart failure

Appendix N-5: 30-Day Survival, COX Survival Regression, Model Results

Analysis of Maximum Likelihood Estimates	
Parameter	**Label**
HisCHF_Any	History of CHF (L heart failure, cardiomyopathy)
AIscHRD_Any	Any Ischemic Heart Disease: CAD, angina, AMI, prior MI
Hyperlipidemia_Any	Hyperlipidemia
DemAlzDis_Any	Dementia or Alzheimers Disease
LowPlaCnt_Any	Low platelet count
BleDisExPlaDis_Any	Bleeding Disorders (no platelet disorders)
Anticoagulation_Any	Anticoagulation
HypCoaSta_Any	Hypercoagulable state
Falls	Falls
SmokerCur	Current Smoker
RecStroke	Recurrent Strokes
FormTIA	Former TIA
TIAReslvd	TIA resolved
Fever48h	Fever 48 h
VALVE_Any	elix Valvular disease
PULMCIRC_Any	elix Pulmonary circulation disease
PERIVASC_Any	elix Peripheral vascular disease
HTN_C_Any	elix Hypertension
PARA_Any	elix Paralysis
NEURO_Any	elix Other neurological disorders
CHRNLUNG_Any	elix Chronic pulmonary disease
DM_Any	elix Diabetes w/o chronic complications
DMCX_Any	elix Diabetes w/ chronic complications
HYPOTHY_Any	elix Hypothyroidism
RENLFAIL_Any	elix Renal failure
LIVER_Any	elix Liver disease
ULCER_Any	elix Peptic ulcer Disease x bleeding
AIDS_Any	elix Acquired immune deficiency syndrome
LYMPH_Any	elix Lymphoma
METS_Any	elix Metastatic cancer
TUMOR_Any	elix Solid tumor w/out metastasis
ARTH_Any	elix Rheumatoid arthritis/collagen vas
OBESE_Any	elix Obesity
WGHTLOSS_Any	elix Weight loss
LYTES_Any	elix Fluid and electrolyte disorders
BLDLOSS_Any	elix Chronic blood loss anemia

Appendix N-5: 30-Day Survival, COX Survival Regression, Model Results

Analysis of Maximum Likelihood Estimates	
Parameter	**Label**
ANEMDEF_Any	elix Deficiency Anemias
ALCOHOL_Any	elix Alcohol abuse
DRUG_Any	elix Drug abuse
PSYCH_Any	elix Psychoses
DEPRESS_Any	elix Depression

Selection Method	Simple Random Sampling

Input Data Set	MODEL35
Random Number Seed	123,456
Sample Size	4,000
Selection Probability	0.039203
Sampling Weight	25.5085
Number of Replicates	1
Total Sample Size	4,000
Output Data Set	TMP

Obs	c_index	lower_cindex	upper_cindex
1	0.039568	0.027675	0.053444

Appendix N-6:

Time to 30-Day Readmission,
COX Survival Regression, Model Results

Appendix N-6: Time to 30-Day Readmission, COX Survival Regression, Model Results

Model Information		
Data Set	WORK.MODEL_VARS_READ	
Dependent Variable	time_to_30dreadmit	Time to 30d readmit min(30,time_to_death,days2radm_DC)
Censoring Variable	readmit_30d	ReAdmit 30 days after episode discharge date
Censoring Value(s)	1	
Ties Handling	BRESLOW	

Number of Observations Read	96,276
Number of Observations Used	95,933

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

Model Fit Statistics		
Criterion	**Without Covariates**	**With Covariates**
-2 LOG L	959,324.52	958,608.72
AIC	959,324.52	958,770.72
SBC	959,324.52	959,526.22

Testing Global Null Hypothesis: BETA=0			
Test	**Chi-Square**	**DF**	**Pr > ChiSq**
Likelihood Ratio	715.7978	81	<.0001
Score	741.0002	81	<.0001
Wald	740.4751	81	<.0001

Analysis of Maximum Likelihood Estimates								
Parameter	**DF**	**Parameter Estimate**	**Standard Error**	**Chi-Square**	**Pr > ChiSq**	**Hazard Ratio**	**95% Hazard Ratio Confidence Limits**	
agyradm	1	0.00248	0.0002971	69.7160	<.0001	1.002	1.002	1.003
male	1	-0.00659	0.00742	0.7898	0.3742	0.993	0.979	1.008
black	1	-0.03928	0.01375	8.1565	0.0043	0.961	0.936	0.988
hispa	1	-0.02220	0.01088	4.1654	0.0413	0.978	0.957	0.999
asian	1	-0.02964	0.01362	4.7374	0.0295	0.971	0.945	0.997
RURAL	1	-0.00363	0.02012	0.0325	0.8568	0.996	0.958	1.036

Appendix N-6: Time to 30-Day Readmission, COX Survival Regression, Model Results

Analysis of Maximum Likelihood Estimates								
Parameter	**DF**	**Parameter Estimate**	**Standard Error**	**Chi-Square**	**Pr > ChiSq**	**Hazard Ratio**	**95% Hazard Ratio Confidence Limits**	
other	1	-0.01629	0.01977	0.6790	0.4099	0.984	0.946	1.023
ED_trans	1	0.01298	0.01589	0.6671	0.4141	1.013	0.982	1.045
HH_trans	1	-0.10618	0.01878	31.9729	<.0001	0.899	0.867	0.933
BOTH_trans	1	-0.04062	0.06751	0.3621	0.5474	0.960	0.841	1.096
SRC_nursing	1	0.11334	0.01751	41.8902	<.0001	1.120	1.082	1.159
SRC_other	1	0.00935	0.03486	0.0719	0.7886	1.009	0.943	1.081
DIST_HV	1	-8.3859E-6	0.0003557	0.0006	0.9812	1.000	0.999	1.001
DIST_MV	1	-0.0000265	0.0005433	0.0024	0.9611	1.000	0.999	1.001
DIST_LV	1	0.0000306	0.0004131	0.0055	0.9410	1.000	0.999	1.001
POVERTY	1	-0.0001178	0.0004003	0.0865	0.7686	1.000	0.999	1.001
COLLEGE	1	-0.0000306	0.0004305	0.0051	0.9433	1.000	0.999	1.001
FacialPalsy_Any	1	-0.00107	0.01166	0.0085	0.9266	0.999	0.976	1.022
Dysathria_Any	1	-0.02122	0.00999	4.5105	0.0337	0.979	0.960	0.998
AnyPostStrokeDis_Any	1	-0.00216	0.02285	0.0089	0.9248	0.998	0.954	1.044
Aphasia_Any	1	0.02930	0.01042	7.9060	0.0049	1.030	1.009	1.051
Hemiplegia_Hemipares	1	0.04380	0.00875	25.0443	<.0001	1.045	1.027	1.063
OtherParalysis_Any	1	0.01487	0.03432	0.1876	0.6649	1.015	0.949	1.086
Hemineglect_Any	1	0.00959	0.04397	0.0476	0.8273	1.010	0.926	1.101
VisionLoss_Any	1	-0.00903	0.02314	0.1523	0.6964	0.991	0.947	1.037
Apraxia_Any	1	-0.04383	0.05346	0.6721	0.4123	0.957	0.862	1.063
Ataxia_Any	1	-0.02755	0.01417	3.7810	0.0518	0.973	0.946	1.000
ALTLOC_Any	1	0.18959	0.02438	60.4703	<.0001	1.209	1.152	1.268
SeizureDis_Any	1	0.00175	0.01562	0.0125	0.9109	1.002	0.972	1.033
ConDevEye_Any	1	0.11578	0.19688	0.3458	0.5565	1.123	0.763	1.651
OCerISOS_Any	1	-0.00227	0.02783	0.0067	0.9348	0.998	0.945	1.054
TPN_Any	1	0.08204	0.06335	1.6769	0.1953	1.085	0.959	1.229
Dysphagia_Any	1	0.04891	0.01277	14.6698	0.0001	1.050	1.024	1.077
AdmGlucose_Any	1	0.0009269	0.02551	0.0013	0.9710	1.001	0.952	1.052
AcuMyoInf_Any	1	0.08105	0.03272	6.1343	0.0133	1.084	1.017	1.156
LSVHRD_Any	1	-0.00858	0.03565	0.0579	0.8098	0.991	0.925	1.063
RSVHRD_Any	1	0.00604	0.03343	0.0326	0.8567	1.006	0.942	1.074
AtrFib_Any	1	0.04164	0.00959	18.8550	<.0001	1.043	1.023	1.062
CardArrest_Y	1	0.02008	0.03323	0.3652	0.5456	1.020	0.956	1.089
SysHRFail_Any	1	-0.01822	0.13831	0.0174	0.8952	0.982	0.749	1.288

Appendix N-6: Time to 30-Day Readmission, COX Survival Regression, Model Results

Analysis of Maximum Likelihood Estimates								
Parameter	**DF**	**Parameter Estimate**	**Standard Error**	**Chi-Square**	**Pr > ChiSq**	**Hazard Ratio**	**95% Hazard Ratio Confidence Limits**	
HisCHF_Any	1	0.04871	0.01095	19.8004	<.0001	1.050	1.028	1.073
AIscHRD_Any	1	0.0006906	0.00883	0.0061	0.9376	1.001	0.984	1.018
Hyperlipidemia_Any	1	-0.02771	0.00735	14.2195	0.0002	0.973	0.959	0.987
DemAlzDis_Any	1	0.05261	0.01589	10.9571	0.0009	1.054	1.022	1.087
LowPlaCnt_Any	1	-0.07224	0.10088	0.5128	0.4739	0.930	0.763	1.134
BleDisExPlaDis_Any	1	0.01887	0.05986	0.0994	0.7526	1.019	0.906	1.146
Anticoagulation_Any	1	-0.03883	0.01512	6.5970	0.0102	0.962	0.934	0.991
HypCoaSta_Any	1	0.01884	0.04779	0.1555	0.6933	1.019	0.928	1.119
Falls	1	-0.01307	0.01939	0.4544	0.5003	0.987	0.950	1.025
SmokerCur	1	-0.01067	0.01128	0.8943	0.3443	0.989	0.968	1.012
RecStroke	1	0.00421	0.01117	0.1416	0.7067	1.004	0.982	1.026
FormTIA	1	-0.00559	0.01530	0.1334	0.7149	0.994	0.965	1.025
TIAReslvd	1	0.01957	0.01661	1.3889	0.2386	1.020	0.987	1.054
Fever48h	1	-0.04468	0.07318	0.3727	0.5416	0.956	0.829	1.104
VALVE_Any	1	-0.01275	0.01500	0.7230	0.3952	0.987	0.959	1.017
PULMCIRC_Any	1	-0.00343	0.02780	0.0152	0.9018	0.997	0.944	1.052
PERIVASC_Any	1	0.00570	0.01387	0.1690	0.6810	1.006	0.979	1.033
HTN_C_Any	1	-0.01575	0.00817	3.7180	0.0538	0.984	0.969	1.000
PARA_Any	1	0.02069	0.01413	2.1460	0.1429	1.021	0.993	1.050
NEURO_Any	1	0.00908	0.01487	0.3730	0.5414	1.009	0.980	1.039
CHRNLUNG_Any	1	-0.01138	0.01116	1.0414	0.3075	0.989	0.967	1.011
DM_Any	1	-0.00355	0.00874	0.1655	0.6842	0.996	0.980	1.014
DMCX_Any	1	-0.00843	0.01492	0.3193	0.5720	0.992	0.963	1.021
HYPOTHY_Any	1	-0.01181	0.01082	1.1926	0.2748	0.988	0.968	1.009
RENLFAIL_Any	1	0.00985	0.01217	0.6558	0.4181	1.010	0.986	1.034
LIVER_Any	1	0.00154	0.03269	0.0022	0.9623	1.002	0.939	1.068
ULCER_Any	1	0.05251	0.16966	0.0958	0.7570	1.054	0.756	1.470
AIDS_Any	1	0.04456	0.21382	0.0434	0.8349	1.046	0.688	1.590
LYMPH_Any	1	0.04778	0.06505	0.5394	0.4627	1.049	0.923	1.192
METS_Any	1	0.28633	0.03616	62.6905	<.0001	1.332	1.240	1.429
TUMOR_Any	1	0.06328	0.02940	4.6340	0.0313	1.065	1.006	1.129
ARTH_Any	1	-0.00445	0.02460	0.0327	0.8564	0.996	0.949	1.045
OBESE_Any	1	-0.00566	0.01313	0.1858	0.6664	0.994	0.969	1.020
WGHTLOSS_Any	1	0.08696	0.02578	11.3766	0.0007	1.091	1.037	1.147

Appendix N-6: Time to 30-Day Readmission, COX Survival Regression, Model Results

Analysis of Maximum Likelihood Estimates								
Parameter	**DF**	**Parameter Estimate**	**Standard Error**	**Chi-Square**	**Pr > ChiSq**	**Hazard Ratio**	**95% Hazard Ratio Confidence Limits**	
LYTES_Any	1	0.02154	0.01007	4.5730	0.0325	1.022	1.002	1.042
BLDLOSS_Any	1	-0.01041	0.05464	0.0363	0.8489	0.990	0.889	1.102
ANEMDEF_Any	1	-0.00231	0.01095	0.0446	0.8327	0.998	0.977	1.019
ALCOHOL_Any	1	-0.01396	0.01974	0.4996	0.4797	0.986	0.949	1.025
DRUG_Any	1	-0.00573	0.02511	0.0521	0.8194	0.994	0.947	1.044
PSYCH_Any	1	-0.01550	0.02170	0.5103	0.4750	0.985	0.944	1.027
DEPRESS_Any	1	-0.00817	0.01272	0.4125	0.5207	0.992	0.967	1.017

Analysis of Maximum Likelihood Estimates	
Parameter	**Label**
agyradm	Age in Years at Admission
male	1=male
black	1=black
hispa	1=hispanic
asian	1=asian
RURAL	>= 40% Populations are rural dwellers
other	1=other race-ethnicity
ED_trans	0/1 ED transfer
HH_trans	0/1 HH transfer
BOTH_trans	0/1 ED + HH transfer
SRC_nursing	1=nursing source of Admit
SRC_other	1=other source of Admit
DIST_HV	
DIST_MV	
DIST_LV	
POVERTY	% Individuals w/Income <200% Poverty
COLLEGE	% Adults with 4 or more yrs college
FacialPalsy_Any	Facial palsy
Dysathria_Any	Dysarthria (inability to articulate)
AnyPostStrokeDis_Any	Any post-stroke disability
Aphasia_Any	Aphasia
Hemiplegia_Hemipares	Hemiplegia/Hemiparesis
OtherParalysis_Any	Other paralysis
Hemineglect_Any	Hemineglect

Appendix N-6: Time to 30-Day Readmission, COX Survival Regression, Model Results

Analysis of Maximum Likelihood Estimates	
Parameter	**Label**
VisionLoss_Any	Vision loss
Apraxia_Any	Apraxia
Ataxia_Any	Ataxia
ALTLOC_Any	Decreased consciousness, altered mental status, coma
SeizureDis_Any	Seizure or seizure disorder
ConDevEye_Any	Conjugate deviation of eyes
OCerISOS_Any	Other cerebral ischemic signs or symptoms
TPN_Any	Perenteral nutrition
Dysphagia_Any	Dysphagia
AdmGlucose_Any	Admission elevated glucose
AcuMyoInf_Any	Acute myocardial infarction
LSVHRD_Any	Left sided valvular heart disease
RSVHRD_Any	Right sided valvular heart disease
AtrFib_Any	Atrial fibrillation
CardArrest_Y	cx Cardiopulmonary arrest
SysHRFail_Any	Systolic heart failure
HisCHF_Any	History of CHF (L heart failure, cardiomyopathy)
AIscHRD_Any	Any Ischemic Heart Disease: CAD, angina, AMI, prior MI
Hyperlipidemia_Any	Hyperlipidemia
DemAlzDis_Any	Dementia or Alzheimers Disease
LowPlaCnt_Any	Low platelet count
BleDisExPlaDis_Any	Bleeding Disorders (no platelet disorders)
Anticoagulation_Any	Anticoagulation
HypCoaSta_Any	Hypercoagulable state
Falls	Falls
SmokerCur	Current Smoker
RecStroke	Recurrent Strokes
FormTIA	Former TIA
TIAReslvd	TIA resolved
Fever48h	Fever 48 h
VALVE_Any	elix Valvular disease
PULMCIRC_Any	elix Pulmonary circulation disease
PERIVASC_Any	elix Peripheral vascular disease
HTN_C_Any	elix Hypertension
PARA_Any	elix Paralysis
NEURO_Any	elix Other neurological disorders

Appendix N-6: Time to 30-Day Readmission, COX Survival Regression, Model Results

Analysis of Maximum Likelihood Estimates	
Parameter	**Label**
CHRNLUNG_Any	elix Chronic pulmonary disease
DM_Any	elix Diabetes w/o chronic complications
DMCX_Any	elix Diabetes w/ chronic complications
HYPOTHY_Any	elix Hypothyroidism
RENLFAIL_Any	elix Renal failure
LIVER_Any	elix Liver disease
ULCER_Any	elix Peptic ulcer Disease x bleeding
AIDS_Any	elix Acquired immune deficiency syndrome
LYMPH_Any	elix Lymphoma
METS_Any	elix Metastatic cancer
TUMOR_Any	elix Solid tumor w/out metastasis
ARTH_Any	elix Rheumatoid arthritis/collagen vas
OBESE_Any	elix Obesity
WGHTLOSS_Any	elix Weight loss
LYTES_Any	elix Fluid and electrolyte disorders
BLDLOSS_Any	elix Chronic blood loss anemia
ANEMDEF_Any	elix Deficiency Anemias
ALCOHOL_Any	elix Alcohol abuse
DRUG_Any	elix Drug abuse
PSYCH_Any	elix Psychoses
DEPRESS_Any	elix Depression

Appendix N-6: Time to 30-Day Readmission, COX Survival Regression, Model Results

Selection Method	Simple Random Sampling

Input Data Set	MODEL36
Random Number Seed	123456
Sample Size	4000
Selection Probability	0.041547
Sampling Weight	24.069
Number of Replicates	1
Total Sample Size	4000
Output Data Set	TMP

Obs	c_index	lower_cindex	upper_cindex
1	0.89676	0.84024	0.94248

Appendix O-1:

30-Day Death, Stepwise Regression Results

Appendix O-1: 30-DayDeath, Stepwise Regression Results

Model Information		
Data Set	WORK.MODEL_VARS	
Response Variable	death_30d	Death within 30 days (after admission)
Number of Response Levels	2	
Cluster Variable	oshpd_id	Index Hosp Id
Number of Clusters	338	
Model	Binary Logit	
Optimization Technique	Fisher's Scoring	
Variance Adjustment	Degrees of Freedom (DF)	

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

Number of Observations Read	102,034
Number of Observations Used	101,677

Response Profile		
Ordered Value	**death_30d**	**Total Frequency**
1	0	90,294
2	1	11,383

Probability modeled is death_30d=1.

Note: 357 observations were deleted due to missing values for the response or explanatory variables.

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

Appendix O-1: 30-DayDeath, Stepwise Regression Results

Model Fit Statistics		
Criterion	**Intercept Only**	**Intercept and Covariates**
AIC	71,293.490	56,482.270
SC	71,303.020	56,949.218
-2 Log L	71,291.490	56,384.270

R-Square	0.1364	**Max-rescaled R-Square**	0.2706

Testing Global Null Hypothesis: BETA=0			
Test	**Chi-Square**	**DF**	**Pr > ChiSq**
Likelihood Ratio	14,907.2201	48	<.0001
Score	16,416.4968	48	<.0001
Wald	10,597.8992	48	<.0001

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
Intercept	1	-6.3948	0.1095	3412.7107	<.0001	Intercept: death_30d=0
agyradm	1	0.0512	0.00129	1577.4518	<.0001	Age in Years at Admission
black	1	-0.7314	0.0560	170.3762	<.0001	1=black
hispa	1	-0.4311	0.0421	104.6951	<.0001	1=hispanic
asian	1	-0.4907	0.0631	60.5337	<.0001	1=asian
other	1	-0.2804	0.0670	17.5164	<.0001	1=other race-ethnicity
RURAL	1	0.0445	0.0564	0.6225	0.4301	>= 40% Populations are rural dwellers
ED_trans	1	0.1573	0.0594	7.0105	0.0081	0/1 ED transfer
HH_trans	1	0.1623	0.0834	3.7855	0.0517	0/1 HH transfer
BOTH_trans	1	0.2602	0.2201	1.3967	0.2373	0/1 ED + HH transfer
SRC_nursing	1	0.5664	0.0440	165.3879	<.0001	1=nursing source of Admit
SRC_other	1	0.1426	0.1047	1.8545	0.1733	1=other source of Admit
COLLEGE	1	-0.00315	0.000899	12.2610	0.0005	% Adults with 4 or more yrs college
CardArrest_Y	1	1.7131	0.0610	789.2867	<.0001	cx Cardiopulmonary arrest
ALTLOC_Any	1	1.5915	0.0613	674.7402	<.0001	Decreased consciousness, altered mental status, coma

Appendix O-1: 30-DayDeath, Stepwise Regression Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
METS_Any	1	1.9475	0.0781	621.6126	<.0001	elix Metastatic cancer
AtrFib_Any	1	0.4867	0.0237	420.7671	<.0001	Atrial fibrillation
Hyperlipidemia_Any	1	-0.4694	0.0236	397.0089	<.0001	Hyperlipidemia
PARA_Any	1	0.6105	0.0339	324.6194	<.0001	elix Paralysis
HisCHF_Any	1	0.4348	0.0295	217.5304	<.0001	History of CHF (L heart failure, cardiomyopathy)
Ataxia_Any	1	-0.9556	0.0712	180.3140	<.0001	Ataxia
Aphasia_Any	1	0.3573	0.0284	158.3306	<.0001	Aphasia
AcuMyoInf_Any	1	0.8086	0.0657	151.5024	<.0001	Acute myocardial infarction
Dysathria_Any	1	-0.3656	0.0358	104.4108	<.0001	Dysarthria (inability to articulate)
TUMOR_Any	1	0.6559	0.0728	81.1277	<.0001	elix Solid tumor w/out metastasis
LYTES_Any	1	0.2425	0.0302	64.3600	<.0001	elix Fluid and electrolyte disorders
SeizureDis_Any	1	0.3245	0.0417	60.6773	<.0001	Seizure or seizure disorder
Dysphagia_Any	1	0.2793	0.0400	48.6371	<.0001	Dysphagia
RENLFAIL_Any	1	0.2395	0.0363	43.5668	<.0001	elix Renal failure
DemAlzDis_Any	1	0.2508	0.0449	31.2417	<.0001	Dementia or Alzheimers Disease
HYPOTHY_Any	1	-0.1659	0.0322	26.6218	<.0001	elix Hypothyroidism
PERIVASC_Any	1	0.1967	0.0407	23.3120	<.0001	elix Peripheral vascular disease
Anticoagulation_Any	1	-0.1978	0.0430	21.1926	<.0001	Anticoagulation
Fever48h	1	0.6624	0.1633	16.4610	<.0001	Fever 48 h
LIVER_Any	1	0.4101	0.1021	16.1379	<.0001	elix Liver disease
DM_Any	1	0.1025	0.0284	13.0021	0.0003	elix Diabetes w/o chronic complications
TIAReslvd	1	0.1920	0.0462	17.2483	<.0001	TIA resolved
OBESE_Any	1	-0.2050	0.0576	12.6626	0.0004	elix Obesity
WGHTLOSS_Any	1	0.2260	0.0695	10.5602	0.0012	elix Weight loss
Apraxia_Any	1	-0.8707	0.2567	11.5079	0.0007	Apraxia
VALVE_Any	1	-0.1279	0.0372	11.8194	0.0006	elix Valvular disease
BleDisExPlaDis_Any	1	0.5228	0.1566	11.1483	0.0008	Bleeding Disorders (no platelet disorders)
PSYCH_Any	1	-0.2416	0.0753	10.2893	0.0013	elix Psychoses
ConDevEye_Any	1	1.2815	0.3978	10.3760	0.0013	Conjugate deviation of eyes
TPN_Any	1	0.5092	0.1701	8.9599	0.0028	Perenteral nutrition
Hemineglect_Any	1	0.3249	0.1282	6.4205	0.0113	Hemineglect
HypCoaSta_Any	1	0.3982	0.1711	5.4144	0.0200	Hypercoagulable state

Appendix O-1: 30-DayDeath, Stepwise Regression Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
AIscHRD_Any	1	0.0649	0.0273	5.6407	0.0175	Any Ischemic Heart Disease: CAD, angina, AMI, prior MI
LYMPH_Any	1	0.3919	0.1705	5.2849	0.0215	elix Lymphoma

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
agyradm	1.053	1.050	1.055
black	0.481	0.431	0.537
hispa	0.650	0.598	0.706
asian	0.612	0.541	0.693
other	0.755	0.663	0.861
RURAL	1.045	0.936	1.168
ED_trans	1.170	1.042	1.315
HH_trans	1.176	0.999	1.385
BOTH_trans	1.297	0.843	1.997
SRC_nursing	1.762	1.616	1.921
SRC_other	1.153	0.939	1.416
COLLEGE	0.997	0.995	0.999
CardArrest_Y	5.546	4.921	6.250
ALTLOC_Any	4.911	4.355	5.538
METS_Any	7.011	6.016	8.171
AtrFib_Any	1.627	1.553	1.704
Hyperlipidemia_Any	0.625	0.597	0.655
PARA_Any	1.841	1.723	1.968
HisCHF_Any	1.545	1.458	1.636
Ataxia_Any	0.385	0.335	0.442
Aphasia_Any	1.430	1.352	1.511
AcuMyoInf_Any	2.245	1.973	2.553
Dysathria_Any	0.694	0.647	0.744
TUMOR_Any	1.927	1.671	2.222
LYTES_Any	1.274	1.201	1.352
SeizureDis_Any	1.383	1.275	1.501

Appendix O-1: 30-DayDeath, Stepwise Regression Results

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
Dysphagia_Any	1.322	1.222	1.430
RENLFAIL_Any	1.271	1.183	1.364
DemAlzDis_Any	1.285	1.177	1.403
HYPOTHY_Any	0.847	0.795	0.902
PERIVASC_Any	1.217	1.124	1.319
Anticoagulation_Any	0.821	0.754	0.893
Fever48h	1.939	1.408	2.671
LIVER_Any	1.507	1.234	1.841
DM_Any	1.108	1.048	1.171
TIAReslvd	1.212	1.107	1.327
OBESE_Any	0.815	0.728	0.912
WGHTLOSS_Any	1.254	1.094	1.437
Apraxia_Any	0.419	0.253	0.692
VALVE_Any	0.880	0.818	0.947
BleDisExPlaDis_Any	1.687	1.241	2.292
PSYCH_Any	0.785	0.678	0.910
ConDevEye_Any	3.602	1.652	7.856
TPN_Any	1.664	1.192	2.322
Hemineglect_Any	1.384	1.076	1.779
HypCoaSta_Any	1.489	1.065	2.082
AIscHRD_Any	1.067	1.011	1.126
LYMPH_Any	1.480	1.059	2.067

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	82.6	**Somers' D**	0.655
Percent Discordant	17.1	**Gamma**	0.658
Percent Tied	0.4	**Tau-a**	0.130
Pairs	1,027,816,602	**c**	0.827

Appendix O-2:

30-Day Readmission, Stepwise Regression Results

Appendix O-2: 30-Day Readmission, Stepwise Regression Results

Model Information		
Data Set	WORK.MODEL_VARS_READ	
Response Variable	readmit_30d	ReAdmit 30 days after episode discharge date
Number of Response Levels	2	
Cluster Variable	oshpd_id	Index Hosp Id
Number of Clusters	338	
Model	Binary Logit	
Optimization Technique	Fisher's Scoring	
Variance Adjustment	Degrees of Freedom (DF)	

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

Number of Observations Read	96,276
Number of Observations Used	95,936

Response Profile		
Ordered Value	**readmit_30d**	**Total Frequency**
1	0	83,054
2	1	12,882

Probability modeled is readmit_30d=1.

Note: 340 observations were deleted due to missing values for the response or explanatory variables.

Appendix O-2: 30-Day Readmission, Stepwise Regression Results

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

Model Fit Statistics		
Criterion	**Intercept Only**	**Intercept and Covariates**
AIC	75,683.418	73,520.335
SC	75,692.890	73,993.906
-2 Log L	75,681.418	73,420.335

R-Square	0.0233	**Max-rescaled R-Square**	0.0427

Testing Global Null Hypothesis: BETA=0			
Test	**Chi-Square**	**DF**	**Pr > ChiSq**
Likelihood Ratio	2,261.0839	49	<.0001
Score	2,466.3942	49	<.0001
Wald	2,756.5298	49	<.0001

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
Intercept	1	-2.6905	0.0709	1441.3311	<.0001	Intercept: readmit_30d=0
agyradm	1	0.00385	0.000831	21.4518	<.0001	Age in Years at Admission
male	1	0.0371	0.0194	3.6584	0.0558	1=male
black	1	0.0867	0.0321	7.2916	0.0069	1=black
hispa	1	0.0242	0.0291	0.6910	0.4058	1=hispanic
asian	1	0.0164	0.0364	0.2019	0.6532	1=asian
other	1	-0.0698	0.0583	1.4363	0.2307	1=other race-ethnicity
RURAL	1	-0.0953	0.0536	3.1597	0.0755	>= 40% Populations are rural dwellers

Appendix O-2: 30-Day Readmission, Stepwise Regression Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
POVERTY	1	0.00125	0.000590	4.4771	0.0344	% Individuals w/Income <200% Poverty
ED_trans	1	0.0173	0.0467	0.1381	0.7102	0/1 ED transfer
HH_trans	1	0.4029	0.0454	78.7496	<.0001	0/1 HH transfer
BOTH_trans	1	0.3731	0.1517	6.0518	0.0139	0/1 ED + HH transfer
DIST_HV	1	-0.00241	0.000402	36.1759	<.0001	
DIST_LV	1	0.00234	0.000452	26.7654	<.0001	
RecStroke	1	0.0940	0.0252	13.8630	0.0002	Recurrent Strokes
RENLFAIL_Any	1	0.3281	0.0305	115.6395	<.0001	elix Renal failure
ANEMDEF_Any	1	0.2491	0.0255	95.5850	<.0001	elix Deficiency Anemias
Dysphagia_Any	1	0.2567	0.0335	58.8117	<.0001	Dysphagia
LYTES_Any	1	0.1829	0.0246	55.3133	<.0001	elix Fluid and electrolyte disorders
DMCX_Any	1	0.2777	0.0384	52.3094	<.0001	elix Diabetes w/ chronic complications
METS_Any	1	0.5574	0.0818	46.3833	<.0001	elix Metastatic cancer
PARA_Any	1	0.2364	0.0338	48.9645	<.0001	elix Paralysis
HisCHF_Any	1	0.1808	0.0280	41.6028	<.0001	History of CHF (L heart failure, cardiomyopathy)
DM_Any	1	0.1412	0.0235	35.9455	<.0001	elix Diabetes w/o chronic complications
TIAReslvd	1	0.2019	0.0384	27.6466	<.0001	TIA resolved
HTN_C_Any	1	0.1121	0.0211	28.2223	<.0001	elix Hypertension
AIscHRD_Any	1	0.1138	0.0216	27.7832	<.0001	Any Ischemic Heart Disease: CAD, angina, AMI, prior MI
SeizureDis_Any	1	0.2091	0.0376	30.9611	<.0001	Seizure or seizure disorder
WGHTLOSS_Any	1	0.3237	0.0659	24.1559	<.0001	elix Weight loss
AtrFib_Any	1	0.1317	0.0265	24.6159	<.0001	Atrial fibrillation
LIVER_Any	1	0.3343	0.0746	20.1062	<.0001	elix Liver disease
Hyperlipidemia_Any	1	-0.0928	0.0211	19.3743	<.0001	Hyperlipidemia
LYMPH_Any	1	0.5548	0.1253	19.5945	<.0001	elix Lymphoma
FormTIA	1	0.1578	0.0364	18.8150	<.0001	Former TIA
CHRNLUNG_Any	1	0.1129	0.0294	14.7747	0.0001	elix Chronic pulmonary disease

Appendix O-2: 30-Day Readmission, Stepwise Regression Results

Analysis of Maximum Likelihood Estimates						
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**	**Label**
BLDLOSS_Any	1	0.4337	0.1125	14.8690	0.0001	elix Chronic blood loss anemia
CardArrest_Y	1	0.2511	0.0722	12.0831	0.0005	cx Cardiopulmonary arrest
TUMOR_Any	1	0.2447	0.0708	11.9458	0.0005	elix Solid tumor w/out metastasis
PERIVASC_Any	1	0.1078	0.0320	11.3289	0.0008	elix Peripheral vascular disease
FacialPalsy_Any	1	-0.1092	0.0344	10.0503	0.0015	Facial palsy
PSYCH_Any	1	0.1427	0.0546	6.8288	0.0090	elix Psychoses
Falls	1	0.1210	0.0498	5.8944	0.0152	Falls
RSVHRD_Any	1	-0.1640	0.0860	3.6357	0.0566	Right sided valvular heart disease
HypCoaSta_Any	1	0.2966	0.1242	5.7000	0.0170	Hypercoagulable state
Ataxia_Any	1	-0.0774	0.0380	4.1539	0.0415	Ataxia
AcuMyoInf_Any	1	0.1498	0.0747	4.0225	0.0449	Acute myocardial infarction
ARTH_Any	1	0.1366	0.0698	3.8257	0.0505	elix Rheumatoid arthritis/collagen vas
Dysathria_Any	1	-0.0569	0.0275	4.2882	0.0384	Dysarthria (inability to articulate)
DRUG_Any	1	0.1293	0.0698	3.4262	0.0642	elix Drug abuse
PULMCIRC_Any	1	0.1442	0.0719	4.0219	0.0449	elix Pulmonary circulation disease

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
agyradm	1.004	1.002	1.005
male	1.038	0.999	1.078
black	1.091	1.024	1.161
hispa	1.025	0.968	1.085
asian	1.016	0.946	1.092
other	0.933	0.832	1.045
RURAL	0.909	0.818	1.010
POVERTY	1.001	1.000	1.002
ED_trans	1.018	0.929	1.115
HH_trans	1.496	1.369	1.635
BOTH_trans	1.452	1.079	1.955

Appendix O-2: 30-Day Readmission, Stepwise Regression Results

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
DIST_HV	0.998	0.997	0.998
DIST_LV	1.002	1.001	1.003
RecStroke	1.099	1.046	1.154
RENLFAIL_Any	1.388	1.308	1.474
ANEMDEF_Any	1.283	1.220	1.349
Dysphagia_Any	1.293	1.211	1.380
LYTES_Any	1.201	1.144	1.260
DMCX_Any	1.320	1.224	1.423
METS_Any	1.746	1.487	2.050
PARA_Any	1.267	1.185	1.353
HisCHF_Any	1.198	1.134	1.266
DM_Any	1.152	1.100	1.206
TIAReslvd	1.224	1.135	1.319
HTN_C_Any	1.119	1.073	1.166
AIscHRD_Any	1.121	1.074	1.169
SeizureDis_Any	1.233	1.145	1.327
WGHTLOSS_Any	1.382	1.215	1.573
AtrFib_Any	1.141	1.083	1.202
LIVER_Any	1.397	1.207	1.617
Hyperlipidemia_Any	0.911	0.874	0.950
LYMPH_Any	1.742	1.362	2.226
FormTIA	1.171	1.090	1.258
CHRNLUNG_Any	1.120	1.057	1.186
BLDLOSS_Any	1.543	1.238	1.924
CardArrest_Y	1.285	1.116	1.481
TUMOR_Any	1.277	1.112	1.467
PERIVASC_Any	1.114	1.046	1.186
FacialPalsy_Any	0.897	0.838	0.959
PSYCH_Any	1.153	1.036	1.284
Falls	1.129	1.024	1.244

Appendix O-2: 30-Day Readmission, Stepwise Regression Results

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
RSVHRD_Any	0.849	0.717	1.005
HypCoaSta_Any	1.345	1.055	1.716
Ataxia_Any	0.925	0.859	0.997
AcuMyoInf_Any	1.162	1.003	1.345
ARTH_Any	1.146	1.000	1.314
Dysathria_Any	0.945	0.895	0.997
DRUG_Any	1.138	0.992	1.305
PULMCIRC_Any	1.155	1.003	1.330

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	62.2	**Somers' D**	0.257
Percent Discordant	36.5	**Gamma**	0.260
Percent Tied	1.3	**Tau-a**	0.060
Pairs	1,069,901,628	**c**	0.629

Appendix P:

Correlation of Hospital Rankings Using Different Outcome Measures

Appendix P: Correlation of Hospital Rankings Using Different Outcome Measures

6 Variables:	DT30_RANK HD_RANK ReAD30_RANK dth30d_noHdeath_rank COX_RANKDEAT COX_RANKREAD

Simple Statistics						
Variable	**N**	**Mean**	**Std Dev**	**Sum**	**Minimum**	**Maximum**
DT30_RANK	309	155.00000	89.34484	47895	1.00000	309.00000
HD_RANK	309	154.98058	89.37815	47889	1.00000	309.00000
ReAD30_RANK	308	154.50000	89.05616	47586	1.00000	308.00000
dth30d_noHdeath_rank	309	154.99029	89.36153	47892	1.00000	309.00000
COX_RANKDEAT	308	154.50000	89.05616	47586	1.00000	308.00000
COX_RANKREAD	308	154.49026	89.07291	47583	1.00000	308.00000

Pearson Correlation Coefficients for Rankings				
Prob > |r| under H0: **Rho=0** **Number of Observations**	**DT30_RANK**	**HD_RANK**	**ReAD30_RANK**	**dth30d_noHdeath_rank**
DT30_RANK	1.00000 309	0.68404 <.0001 309	-0.12763 0.0251 308	0.67872 <.0001 309
HD_RANK	0.68404 <.0001 309	1.00000 309	-0.02401 0.6747 308	0.04763 0.4040 309
ReAD30_RANK	-0.12763 0.0251 308	-0.02401 0.6747 308	1.00000 308	-0.10337 0.0700 308
dth30d_noHdeath_rank	0.67872 <.0001 309	0.04763 0.4040 309	-0.10337 0.0700 308	1.00000 309
COX_RANKDEAT	0.40754 <.0001 308	0.28302 <.0001 308	-0.08065 0.1586 307	0.24704 <.0001 308
COX_RANKREAD	0.47189 <.0001 308	-0.02427 0.6714 308	-0.11647 0.0411 308	0.73931 <.0001 308

Appendix P: Correlation of Hospital Rankings Using Different Outcome Measures

Pearson Correlation Coefficients for Cox Models		
Prob > |r| under H0		
Rho=0		
Number of Observations	**COX_RANKDEAT**	**COX_RANKREAD**
DT30_RANK	0.40754 <.0001 308	0.47189 <.0001 308
HD_RANK	0.28302 <.0001 308	-0.02427 0.6714 308
ReAD30_RANK	-0.08065 0.1586 307	-0.11647 0.0411 308
dth30d_noHdeath_rank	0.24704 <.0001 308	0.73931 <.0001 308
COX_RANKDEAT	1.00000 308	0.46713 <.0001 307
COX_RANKREAD	0.46713 <.0001 307	1.00000 308

Appendix Q:

Table Q-1: 30-Day Death Hospital Rankings

Table Q-2: 30-Day Readmission Hospital Rankings

Appendix Table Q-1:30-Day Inpatient Death Hospital Rankings

3-Year Statewide Inpatient Death Average		
California		
N	**Observed**	**Mean**
102,034	5,758	0.056432

Table Q-1: 30-Day Inpatient Death Hospital Rankings

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	HD_RANK	CLASS
434138	Saint Louise Regional Hospital	78	0	0.00000	0.04182	0.00000	.	.	1	1
190066	Bellflower Medical Center	59	0	0.00000	0.03842	0.00000	.	.	1	1
150737	Kern Valley Healthcare District	38	0	0.00000	0.05270	0.00000	.	.	1	1
301097	Anaheim General Hospital	32	0	0.00000	0.04781	0.00000	.	.	1	1
190307	Pacific Alliance Medical Center, Inc.	182	1	0.00549	0.04107	0.00755	0.00000	0.03020	5	1
190570	Norwalk Community Hospital	108	1	0.00926	0.06682	0.00782	0.00000	0.03128	6	1
154101	Bakersfield Heart Hospital	127	1	0.00787	0.05151	0.00863	0.00000	0.03450	7	1
382715	Chinese Hospital	173	1	0.00578	0.03325	0.00981	0.00000	0.03924	8	1
230949	Frank R. Howard Memorial Hospital	58	1	0.01724	0.09074	0.01072	0.00000	0.04289	9	1
190784	Temple Community Hospital	83	1	0.01205	0.05547	0.01226	0.00000	0.04903	10	1
500967	Oak Valley District Hospital	87	1	0.01149	0.04458	0.01455	0.00000	0.05820	11	0
190155	Century City Doctors Hospital	38	1	0.02632	0.09164	0.01621	0.00000	0.06482	12	0
361105	Barstow Community Hospital	178	2	0.01124	0.03783	0.01676	0.00000	0.05028	13	1
474007	Fairchild Medical Center	79	2	0.02532	0.08137	0.01756	0.00000	0.05267	14	1
350784	Hazel Hawkins Memorial Hospital	65	1	0.01538	0.04807	0.01806	0.00000	0.07224	15	0
300225	Orange Coast Memorial Medical Center	393	6	0.01527	0.04488	0.01920	0.00320	0.03839	16	1
190380	Hollywood Community Hospital	40	1	0.02500	0.06988	0.02019	0.00000	0.08075	17	0
190315	Garfield Medical Center	441	11	0.02494	0.06548	0.02150	0.00782	0.03713	18	1
190198	Los Angeles Community Hospital	194	4	0.02062	0.05223	0.02228	0.00000	0.05012	19	1
301234	La Palma Intercommunity Hospital	187	3	0.01604	0.04015	0.02255	0.00000	0.06014	20	0
190017	Alhambra Hospital	144	6	0.04167	0.10262	0.02291	0.00382	0.04582	21	1
334048	Kaiser Foundation Hospital – Moreno Valley	118	3	0.02542	0.06026	0.02381	0.00000	0.06349	22	0

Appendix Table Q-1:30-Day Inpatient Death Hospital Rankings

Table Q-1: 30-Day Inpatient Death Hospital Rankings										
OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	HD_RANK	CLASS
301283	Garden Grove Hospital and Medical Center	222	5	0.02252	0.05321	0.02389	0.00478	0.05255	23	1
190256	East Los Angeles Doctors Hospital	119	4	0.03361	0.07803	0.02431	0.00000	0.05470	24	1
190878	White Memorial Medical Center	366	10	0.02732	0.05935	0.02598	0.00779	0.04676	25	1
190522	Glendale Memorial Hospital and Medical Center	420	12	0.02857	0.06119	0.02635	0.01098	0.04611	26	1
14050	Valleycare Medical Center	135	3	0.02222	0.04736	0.02648	0.00000	0.07061	27	0
521041	Saint Elizabeth Community Hospital	208	6	0.02885	0.06147	0.02648	0.00441	0.05297	28	1
190631	Presbyterian Intercommunity Hospital	610	15	0.02459	0.05240	0.02648	0.01236	0.04414	29	1
574010	Sutter Davis Hospital	95	4	0.04211	0.08763	0.02711	0.00000	0.06101	30	0
361370	Victor Valley Community Hospital	149	4	0.02685	0.05573	0.02718	0.00000	0.06116	31	0
70934	Sutter Delta Medical Center	323	14	0.04334	0.08786	0.02784	0.01193	0.04573	32	1
190197	Community and Mission Hospital of Huntington Park – Slauson	48	1	0.02083	0.04192	0.02805	0.00000	0.11218	33	0
190534	Olympia Medical Center	291	10	0.03436	0.06706	0.02892	0.00868	0.05205	34	1
361339	Saint Bernadine Medical Center	467	14	0.02998	0.05735	0.02950	0.01264	0.04846	35	1
331288	Palo Verde Hospital	32	1	0.03125	0.05924	0.02977	0.00000	0.11908	36	0
491001	Petaluma Valley Hospital	153	5	0.03268	0.06137	0.03005	0.00601	0.06611	37	0
301258	Coastal Communities Hospital	52	2	0.03846	0.07221	0.03006	0.00000	0.09018	38	0
190413	Citrus Valley Medical Center – Inter Community Campus	356	11	0.03090	0.05776	0.03019	0.01098	0.05215	39	1
301317	Saddleback Memorial Medical Center	626	21	0.03355	0.06260	0.03024	0.01584	0.04608	40	1
190762	Saint Vincent Medical Center	281	7	0.02491	0.04559	0.03083	0.00881	0.06167	41	0
481094	Sutter Solano Medical Center	238	7	0.02941	0.05374	0.03089	0.00882	0.06177	42	0
301340	Saint Joseph Hospital – Orange	588	17	0.02891	0.05266	0.03098	0.01458	0.04921	43	1
190547	Monterey Park Hospital	120	4	0.03333	0.06009	0.03130	0.00000	0.07043	44	0
190680	Providence Little Company of Mary Medical Center – San Pedro	222	6	0.02703	0.04868	0.03133	0.00522	0.06266	45	0
301325	Saddleback Memorial Medical Center – San Clemente	103	3	0.02913	0.05234	0.03140	0.00000	0.08374	46	0
40875	Feather River Hospital	207	11	0.05314	0.09393	0.03192	0.01161	0.05514	47	1

Appendix Table Q-1:30-Day Inpatient Death Hospital Rankings

Table Q-1: 30-Day Inpatient Death Hospital Rankings										
OSHPD_ID	**FACNAME**	**N**	**OBS_N**	**OBSERVE**	**PREDICT**	**SCORE**	**SCORE_L**	**SCORE_U**	**HD_RANK**	**CLASS**
380965	Saint Mary's Medical Center, San Francisco	191	7	0.03665	0.06457	0.03203	0.00915	0.06406	48	0
371256	Scripps Green Hospital	269	7	0.02602	0.04553	0.03225	0.00921	0.06450	49	0
331326	San Gorgonio Memorial Hospital	227	9	0.03965	0.06706	0.03336	0.01112	0.06302	50	0
274043	Natividad Medical Center	68	1	0.01471	0.02487	0.03337	0.00000	0.13348	51	0
361144	Chino Valley Medical Center	340	9	0.02647	0.04476	0.03338	0.01113	0.06304	52	0
190034	Antelope Valley Hospital	634	18	0.02839	0.04783	0.03350	0.01675	0.05397	53	1
190352	Greater El Monte Community Hospital	116	3	0.02586	0.04356	0.03351	0.00000	0.08935	54	0
310791	Sutter Auburn Faith Hospital	222	8	0.03604	0.06058	0.03357	0.00839	0.06294	55	0
331168	Eisenhower Medical Center	1013	28	0.02764	0.04646	0.03357	0.01919	0.04916	56	1
10967	Saint Rose Hospital	234	7	0.02991	0.05028	0.03358	0.00959	0.06715	57	0
190430	Kaiser Foundation Hospital – Bellflower	564	17	0.03014	0.04987	0.03411	0.01605	0.05418	58	1
196035	Kaiser Foundation Hospital – Baldwin Park	544	14	0.02574	0.04166	0.03486	0.01494	0.05727	59	0
190883	Whittier Hospital Medical Center	357	13	0.03641	0.05867	0.03503	0.01347	0.05928	60	0
481357	North Bay Medical Center	149	6	0.04027	0.06468	0.03513	0.00586	0.07027	61	0
190587	Pacific Hospital of Long Beach	65	2	0.03077	0.04848	0.03582	0.00000	0.10745	62	0
190756	Saint John's Health Center	387	18	0.04651	0.07256	0.03617	0.01809	0.05828	63	0
490964	Healdsburg District Hospital	50	2	0.04000	0.06217	0.03631	0.00000	0.10893	64	0
340947	Mercy General Hospital	509	17	0.03340	0.05184	0.03636	0.01711	0.05774	65	0
361343	Saint Mary Regional Medical Center	588	16	0.02721	0.04209	0.03649	0.01824	0.05929	66	0
301098	AHMC Anaheim Regional Medical Center	476	14	0.02941	0.04513	0.03678	0.01576	0.06043	67	0
190630	Pomona Valley Hospital Medical Center	596	21	0.03523	0.05389	0.03690	0.01933	0.05622	68	1
191450	Kaiser Foundation Hospital – Woodland Hills	483	20	0.04141	0.06284	0.03718	0.01859	0.05763	69	0
190529	Methodist Hospital of Southern California	659	28	0.04249	0.06401	0.03746	0.02141	0.05485	70	1
150722	Bakersfield Memorial Hospital	521	14	0.02687	0.04039	0.03755	0.01609	0.06168	71	0
334068	Southwest Healthcare System – Murrieta	617	22	0.03566	0.05356	0.03757	0.02049	0.05807	72	0
240942	Mercy Medical Center – Merced	366	15	0.04098	0.06142	0.03766	0.01757	0.06276	73	0

Appendix Table Q-1:30-Day Inpatient Death Hospital Rankings

Table Q-1: 30-Day Inpatient Death Hospital Rankings										
OSHPD_ID	**FACNAME**	**N**	**OBS_N**	**OBSERVE**	**PREDICT**	**SCORE**	**SCORE_L**	**SCORE_U**	**HD_RANK**	**CLASS**
190081	Beverly Hospital	404	15	0.03713	0.05561	0.03768	0.01758	0.06280	74	0
370652	Alvarado Hospital	286	11	0.03846	0.05708	0.03803	0.01383	0.06568	75	0
190200	San Gabriel Valley Medical Center	372	22	0.05914	0.08729	0.03823	0.02085	0.05909	76	0
190766	Coast Plaza Doctors Hospital	86	4	0.04651	0.06822	0.03847	0.00000	0.08656	77	0
371394	Scripps Memorial Hospital – Encinitas	370	18	0.04865	0.07130	0.03850	0.01925	0.06204	78	0
301175	Fountain Valley Regional Hospital and Medical Center – Euclid	499	22	0.04409	0.06367	0.03907	0.02131	0.06039	79	0
196403	Kaiser Foundation Hospital – Downey	46	1	0.02174	0.03134	0.03915	0.00000	0.15658	80	0
190392	Good Samaritan Hospital – Los Angeles	378	14	0.03704	0.05276	0.03962	0.01698	0.06509	81	0
190818	Verdugo Hills Hospital	242	12	0.04959	0.07031	0.03980	0.01658	0.06965	82	0
331152	Corona Regional Medical Center – Main	292	11	0.03767	0.05314	0.04001	0.01455	0.06910	83	0
370689	Sharp Coronado Hospital and Healthcare Center	52	3	0.05769	0.07907	0.04117	0.00000	0.10979	84	0
380964	California Pacific Medical Center – St. Luke's Campus	106	6	0.05660	0.07731	0.04132	0.00689	0.08263	85	0
190525	Long Beach Memorial Medical Center	905	27	0.02983	0.04068	0.04139	0.02453	0.06131	86	0
370759	Paradise Valley Hospital	295	10	0.03390	0.04585	0.04173	0.01252	0.07511	87	0
90933	Marshall Medical Center	236	15	0.06356	0.08511	0.04214	0.01967	0.07024	88	0
190524	Mission Community Hospital – Panorama Campus	104	4	0.03846	0.05117	0.04241	0.00000	0.09543	89	0
150761	Mercy Hospital – Bakersfield	465	22	0.04731	0.06279	0.04252	0.02319	0.06572	90	0
10983	Valley Memorial Hospital – Livermore	78	4	0.05128	0.06725	0.04303	0.00000	0.09682	91	0
491338	Palm Drive Hospital	51	3	0.05882	0.07672	0.04327	0.00000	0.11539	92	0
331312	Riverside Community Hospital	556	26	0.04676	0.06067	0.04350	0.02510	0.06525	93	0
190673	San Dimas Community Hospital	180	8	0.04444	0.05711	0.04392	0.01098	0.08235	94	0
450949	Mercy Medical Center – Redding	494	28	0.05668	0.07281	0.04393	0.02510	0.06433	95	0
190382	Hollywood Presbyterian Medical Center	322	19	0.05901	0.07578	0.04394	0.02313	0.06938	96	0
364144	Desert Valley Hospital	382	13	0.03403	0.04365	0.04400	0.01692	0.07446	97	0

Appendix Table Q-1:30-Day Inpatient Death Hospital Rankings

Table Q-1: 30-Day Inpatient Death Hospital Rankings										
OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	HD_RANK	CLASS
191231	Los Angeles County/Olive View – UCLA Medical Center	234	5	0.02137	0.02731	0.04416	0.00883	0.09714	98	0
370705	Fallbrook Hospital District	57	2	0.03509	0.04470	0.04430	0.00000	0.13289	99	0
40937	Oroville Hospital	270	14	0.05185	0.06586	0.04443	0.01904	0.07299	100	0
361246	Loma Linda University Medical Center	520	24	0.04615	0.05856	0.04447	0.02409	0.06671	101	0
361308	Redlands Community Hospital	337	17	0.05045	0.06386	0.04458	0.02098	0.07080	102	0
190517	Providence Tarzana Medical Center	291	15	0.05155	0.06474	0.04493	0.02097	0.07488	103	0
510882	Fremont Medical Center	108	5	0.04630	0.05799	0.04505	0.00901	0.09911	104	0
13619	San Leandro Hospital	260	14	0.05385	0.06742	0.04507	0.01932	0.07404	105	0
301248	Los Alamitos Medical Center	499	25	0.05010	0.06272	0.04508	0.02524	0.06671	106	0
190298	Foothill Presbyterian Hospital – Johnston Memorial	275	11	0.04000	0.05005	0.04510	0.01640	0.07790	107	0
301209	Huntington Beach Hospital	151	8	0.05298	0.06571	0.04550	0.01138	0.08532	108	0
334025	Kaiser Foundation Hospital – Riverside	503	21	0.04175	0.05130	0.04593	0.02406	0.06998	109	0
301262	Mission Hospital Regional Medical Center	583	29	0.04974	0.06076	0.04620	0.02708	0.06691	110	0
430779	Good Samaritan Hospital – San Jose	540	27	0.05000	0.06087	0.04636	0.02747	0.06867	111	0
301205	Hoag Memorial Hospital Presbyterian	1024	56	0.05469	0.06652	0.04639	0.03231	0.06131	112	0
190949	Henry Mayo Newhall Memorial Hospital	376	23	0.06117	0.07425	0.04649	0.02628	0.07074	113	0
190687	Santa Monica – UCLA Medical Center and Orthopedic Hospital	364	20	0.05495	0.06669	0.04649	0.02325	0.07206	114	0
301297	Placentia Linda Hospital	182	8	0.04396	0.05330	0.04654	0.01163	0.08726	115	0
342344	Kaiser Foundation Hospital – South Sacramento	540	22	0.04074	0.04931	0.04663	0.02543	0.07206	116	0
361318	San Antonio Community Hospital	579	27	0.04663	0.05627	0.04677	0.02771	0.06929	117	0
10987	Washington Hospital – Fremont	599	36	0.06010	0.07149	0.04744	0.03031	0.06721	118	0
171395	Sutter Lakeside Hospital	133	9	0.06767	0.08024	0.04759	0.01586	0.08990	119	0
301132	Kaiser Foundation Hospital – Anaheim	537	21	0.03911	0.04625	0.04771	0.02499	0.07271	120	0
70988	John Muir Medical Center – Walnut Creek Campus	562	43	0.07651	0.09016	0.04789	0.03230	0.06571	121	0

Appendix Table Q-1:30-Day Inpatient Death Hospital Rankings

Table Q-1: 30-Day Inpatient Death Hospital Rankings										
OSHPD_ID	**FACNAME**	**N**	**OBS_N**	**OBSERVE**	**PREDICT**	**SCORE**	**SCORE_L**	**SCORE_U**	**HD_RANK**	**CLASS**
50932	Mark Twain Saint Joseph's Hospital	78	4	0.05128	0.05988	0.04833	0.00000	0.10874	122	0
304045	Hoag Hospital Irvine	152	7	0.04605	0.05376	0.04834	0.01381	0.09669	123	0
190053	Saint Mary Medical Center	349	15	0.04298	0.04982	0.04868	0.02272	0.08114	124	0
190754	Saint Francis Medical Center	475	27	0.05684	0.06555	0.04893	0.02900	0.07249	125	0
560492	Los Robles Hospital and Medical Center	411	26	0.06326	0.07267	0.04912	0.02834	0.07368	126	0
341052	Sutter Memorial Hospital	163	7	0.04294	0.04908	0.04938	0.01411	0.09875	127	0
190400	Huntington Memorial Hospital	713	33	0.04628	0.05280	0.04947	0.02998	0.07045	128	0
190500	Marina Del Rey Hospital	180	11	0.06111	0.06938	0.04971	0.01807	0.08586	129	0
440755	Dominican Hospital – Santa Cruz/Soquel	478	26	0.05439	0.06165	0.04979	0.02872	0.07468	130	0
380960	Saint Francis Memorial Hospital	238	11	0.04622	0.05237	0.04980	0.01811	0.08602	131	0
334018	Menifee Valley Medical Center	241	13	0.05394	0.06111	0.04981	0.01916	0.08430	132	0
370771	Scripps Memorial Hospital – La Jolla	498	36	0.07229	0.08179	0.04988	0.03186	0.07066	133	0
190708	Sherman Oaks Hospital	192	10	0.05208	0.05872	0.05006	0.01502	0.09010	134	0
190555	Cedars Sinai Medical Center	875	50	0.05714	0.06393	0.05044	0.03430	0.06759	135	0
560473	Community Memorial Hospital – San Buenaventura	510	26	0.05098	0.05666	0.05077	0.02929	0.07616	136	0
361166	Montclair Hospital Medical Center	114	5	0.04386	0.04873	0.05079	0.01016	0.11174	137	0
370744	Scripps Mercy Hospital	707	37	0.05233	0.05781	0.05108	0.03314	0.07179	138	0
410852	Peninsula Medical Center	563	35	0.06217	0.06837	0.05131	0.03225	0.07183	139	0
190243	Downey Regional Medical Center	499	22	0.04409	0.04829	0.05152	0.02810	0.07962	140	0
10937	Alta Bates Summit Medical Center – Summit Campus – Hawthorne	684	35	0.05117	0.05593	0.05163	0.03245	0.07228	141	0
361323	Community Hospital of San Bernardino	219	13	0.05936	0.06438	0.05203	0.02001	0.08805	142	0
500867	Emanuel Medical Center, Inc.	323	15	0.04644	0.05021	0.05219	0.02436	0.08699	143	0
311000	Sutter Roseville Medical Center	549	36	0.06557	0.07068	0.05235	0.03345	0.07417	144	0
392287	Doctors Hospital of Manteca	133	6	0.04511	0.04825	0.05276	0.00879	0.10552	145	0
301379	West Anaheim Medical Center	283	14	0.04947	0.05256	0.05311	0.02276	0.08725	146	0
121002	Mad River Community Hospital	101	6	0.05941	0.06305	0.05317	0.00886	0.10634	147	0
231396	Ukiah Valley Medical Center	127	11	0.08661	0.09139	0.05349	0.01945	0.09238	148	0

Appendix Table Q-1:30-Day Inpatient Death Hospital Rankings

Table Q-1: 30-Day Inpatient Death Hospital Rankings										
OSHPD_ID	**FACNAME**	**N**	**OBS_N**	**OBSERVE**	**PREDICT**	**SCORE**	**SCORE_L**	**SCORE_U**	**HD_RANK**	**CLASS**
190429	Kaiser Foundation Hospital – Sunset	492	19	0.03862	0.04052	0.05378	0.02831	0.08492	149	0
331164	Desert Regional Medical Center	599	31	0.05175	0.05423	0.05386	0.03301	0.07818	150	0
190796	Ronald Reagan UCLA Medical Center	488	34	0.06967	0.07288	0.05395	0.03332	0.07616	151	0
370977	Pomerado Hospital	305	20	0.06557	0.06821	0.05425	0.02713	0.08409	152	0
491076	Sonoma Valley Hospital	125	9	0.07200	0.07462	0.05445	0.01815	0.10285	153	0
301342	Saint Jude Medical Center	737	40	0.05427	0.05622	0.05447	0.03541	0.07490	154	0
190521	Memorial Hospital of Gardena	239	14	0.05858	0.06043	0.05470	0.02344	0.08986	155	0
40962	Enloe Medical Center – Esplanade Campus	463	24	0.05184	0.05346	0.05472	0.02964	0.08207	156	0
70904	Doctors Medical Center – San Pablo	361	21	0.05817	0.05993	0.05478	0.02869	0.08347	157	0
100005	Clovis Community Medical Center	172	9	0.05233	0.05390	0.05478	0.01826	0.10348	158	0
362041	Hi-Desert Medical Center	197	11	0.05584	0.05718	0.05511	0.02004	0.09519	159	0
190432	Kaiser Foundation Hospital – Panorama City	514	22	0.04280	0.04382	0.05512	0.03007	0.08519	160	0
500939	Memorial Hospital Medical Center – Modesto	730	39	0.05342	0.05456	0.05526	0.03542	0.07651	161	0
84001	Sutter Coast Hospital	143	12	0.08392	0.08524	0.05556	0.02315	0.09722	162	0
190455	Lancaster Community Hospital	245	14	0.05714	0.05783	0.05576	0.02390	0.09161	163	0
490919	Sutter Medical Center of Santa Rosa	111	10	0.09009	0.09067	0.05607	0.01682	0.10093	164	0
560529	Saint John's Regional Medical Center	440	23	0.05227	0.05254	0.05615	0.03174	0.08545	165	0
291023	Sierra Nevada Memorial Hospital	261	14	0.05364	0.05372	0.05635	0.02415	0.09258	166	0
500852	Doctors Medical Center	432	27	0.06250	0.06223	0.05668	0.03359	0.08397	167	0
470871	Mercy Medical Center Mt. Shasta	38	2	0.05263	0.05237	0.05672	0.00000	0.17015	168	0
190159	Tri-City Regional Medical Center – Hawaiian Gardens	60	5	0.08333	0.08282	0.05678	0.01136	0.12493	169	0
571086	Woodland Memorial Hospital	200	12	0.06000	0.05951	0.05690	0.02371	0.09957	170	0
190636	Citrus Valley Medical Center – Queen of the Valley Campus	421	21	0.04988	0.04886	0.05761	0.03018	0.08778	171	0
331194	Hemet Valley Medical Center	578	40	0.06920	0.06775	0.05764	0.03747	0.07926	172	0

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OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	HD_RANK	CLASS
380929	California Pacific Medical Center – Pacific Campus	647	40	0.06182	0.06021	0.05794	0.03766	0.07967	173	0
190422	Torrance Memorial Medical Center	704	36	0.05114	0.04936	0.05846	0.03735	0.08282	174	0
121051	Redwood Memorial Hospital	61	5	0.08197	0.07891	0.05862	0.01172	0.12895	175	0
291053	Tahoe Forest Hospital	32	2	0.06250	0.06016	0.05863	0.00000	0.17588	176	0
190385	Providence Holy Cross Medical Center	477	20	0.04193	0.04036	0.05863	0.02932	0.09088	177	0
74017	San Ramon Regional Medical Center	139	10	0.07194	0.06916	0.05870	0.01761	0.10567	178	0
331216	John F. Kennedy Memorial Hospital	190	9	0.04737	0.04553	0.05871	0.01957	0.11089	179	0
430905	Stanford Hospital	560	37	0.06607	0.06348	0.05873	0.03810	0.08254	180	0
430837	O'Connor Hospital – San Jose	348	19	0.05460	0.05225	0.05897	0.03103	0.09310	181	0
190475	Community Hospital of Long Beach	153	11	0.07190	0.06845	0.05927	0.02155	0.10237	182	0
150788	San Joaquin Community Hospital	591	35	0.05922	0.05632	0.05934	0.03730	0.08308	183	0
121080	Saint Joseph Hospital – Eureka	263	21	0.07985	0.07593	0.05935	0.03109	0.09043	184	0
480989	Kaiser Foundation Hospital – Rehabilitation Center Vallejo	706	36	0.05099	0.04829	0.05959	0.03807	0.08442	185	0
100899	Saint Agnes Medical Center	1042	69	0.06622	0.06266	0.05964	0.04321	0.07692	186	0
190110	Brotman Medical Center	235	16	0.06809	0.06421	0.05984	0.02992	0.09724	187	0
370658	Scripps Mercy Hospital – Chula Vista	301	16	0.05316	0.05009	0.05989	0.02995	0.09732	188	0
10858	Kaiser Foundation Hospital – Hayward	348	24	0.06897	0.06466	0.06019	0.03260	0.09028	189	0
560525	Simi Valley Hospital and Healthcare Services – Sycamore	210	16	0.07619	0.07134	0.06027	0.03013	0.09794	190	0
190434	Kaiser Foundation Hospital – West Los Angeles	587	28	0.04770	0.04465	0.06028	0.03445	0.08827	191	0
211006	Marin General Hospital	372	31	0.08333	0.07753	0.06066	0.03718	0.08805	192	0
71018	John Muir Medical Center – Concord Campus	448	34	0.07589	0.07055	0.06071	0.03750	0.08570	193	0
74093	Kaiser Foundation Hospital – Richmond Campus	146	11	0.07534	0.06987	0.06085	0.02213	0.10511	194	0
400466	Arroyo Grande Community Hospital	157	11	0.07006	0.06465	0.06116	0.02224	0.10564	195	0

Appendix Table Q-1:30-Day Inpatient Death Hospital Rankings

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OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	HD_RANK	CLASS
301337	Mission Hospital Laguna Beach	74	6	0.08108	0.07475	0.06121	0.01020	0.12242	196	0
450940	Shasta Regional Medical Center	367	26	0.07084	0.06468	0.06181	0.03566	0.09272	197	0
190323	Glendale Adventist Medical Center – Wilson Terrace	494	36	0.07287	0.06642	0.06192	0.03956	0.08772	198	0
341051	Sutter General Hospital	504	31	0.06151	0.05599	0.06199	0.03800	0.08999	199	0
231013	Mendocino Coast District Hospital	62	5	0.08065	0.07313	0.06223	0.01245	0.13691	200	0
430883	Santa Clara Valley Medical Center	478	18	0.03766	0.03391	0.06267	0.03134	0.10097	201	0
344029	Mercy Hospital – Folsom	213	14	0.06573	0.05888	0.06300	0.02700	0.10349	202	0
130760	Pioneers Memorial Hospital	146	8	0.05479	0.04903	0.06306	0.01577	0.11824	203	0
190568	Northridge Hospital Medical Center	431	30	0.06961	0.06225	0.06310	0.03786	0.09045	204	0
314024	Kaiser Foundation Hospital – Roseville	210	12	0.05714	0.05096	0.06328	0.02637	0.11074	205	0
301566	Western Medical Center – Santa Ana	275	19	0.06909	0.06131	0.06360	0.03347	0.10042	206	0
190280	Encino Hospital Medical Center	90	6	0.06667	0.05893	0.06384	0.01064	0.12768	207	0
400480	French Hospital Medical Center	176	12	0.06818	0.06004	0.06408	0.02670	0.11214	208	0
190148	Centinela Hospital Medical Center	1095	45	0.04110	0.03619	0.06409	0.04273	0.08688	209	0
390923	Lodi Memorial Hospital	333	22	0.06607	0.05793	0.06435	0.03510	0.09945	210	0
394009	Kaiser Foundation Hospital – Manteca	184	9	0.04891	0.04284	0.06443	0.02148	0.12169	211	0
430705	Regional Medical of San Jose	571	38	0.06655	0.05821	0.06452	0.04075	0.08998	212	0
380857	Kaiser Foundation Hospital – San Francisco	418	22	0.05263	0.04567	0.06503	0.03547	0.10051	213	0
190431	Kaiser Foundation Hospital – Harbor City	512	24	0.04688	0.04067	0.06504	0.03523	0.09756	214	0
10856	Kaiser Foundation Hospital – Oakland Campus	529	28	0.05293	0.04585	0.06514	0.03722	0.09538	215	0
410817	Seton Medical Center	366	28	0.07650	0.06597	0.06544	0.03739	0.09582	216	0
190328	East Valley Hospital Medical Center	57	3	0.05263	0.04537	0.06546	0.00000	0.17456	217	0
10739	Alta Bates Summit Medical Center – Alta Bates Campus	554	34	0.06137	0.05268	0.06574	0.04060	0.09281	218	0
560481	Ventura County Medical Center	230	14	0.06087	0.05216	0.06585	0.02822	0.10819	219	0

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OSHPD_ID	**FACNAME**	**N**	**OBS_N**	**OBSERVE**	**PREDICT**	**SCORE**	**SCORE_L**	**SCORE_U**	**HD_RANK**	**CLASS**
361223	Kaiser Foundation Hospital – Fontana	862	42	0.04872	0.04170	0.06593	0.04395	0.09105	220	0
370755	Palomar Medical Center	949	65	0.06849	0.05847	0.06611	0.04780	0.08544	221	0
190470	Providence Little Company of Mary Medical Center – Torrance	589	40	0.06791	0.05788	0.06621	0.04304	0.09104	222	0
410782	San Mateo Medical Center	69	3	0.04348	0.03700	0.06631	0.00000	0.17683	223	0
331293	Parkview Community Hospital Medical Center	233	14	0.06009	0.05061	0.06699	0.02871	0.11006	224	0
190758	Providence Saint Joseph Medical Center	670	43	0.06418	0.05391	0.06718	0.04531	0.09218	225	0
270744	Community Hospital Monterey Peninsula	439	33	0.07517	0.06281	0.06754	0.04093	0.09619	226	0
190240	Lakewood Regional Medical Center	420	29	0.06905	0.05708	0.06826	0.04001	0.09886	227	0
410806	Kaiser Foundation Hospital – South San Francisco	329	18	0.05471	0.04508	0.06850	0.03425	0.11035	228	0
190854	Los Angeles Metropolitan Medical Center	65	3	0.04615	0.03769	0.06911	0.00000	0.18428	229	0
370875	Sharp Chula Vista Medical Center	626	38	0.06070	0.04944	0.06929	0.04376	0.09664	230	0
150706	Delano Regional Medical Center	87	6	0.06897	0.05616	0.06930	0.01155	0.13860	231	0
190859	West Hills Hospital and Medical Center	287	26	0.09059	0.07344	0.06962	0.04016	0.10442	232	0
70990	Kaiser Foundation Hospital – Walnut Creek	554	46	0.08303	0.06706	0.06987	0.04709	0.09417	233	0
210992	Kaiser Foundation Hospital – San Rafael	289	20	0.06920	0.05573	0.07007	0.03504	0.10861	234	0
400548	Twin Cities Community Hospital	326	25	0.07669	0.06137	0.07052	0.03949	0.10437	235	0
580996	Rideout Memorial Hospital	324	25	0.07716	0.06173	0.07053	0.03950	0.10439	236	0
10735	Alameda Hospital	117	10	0.08547	0.06813	0.07080	0.02124	0.12743	237	0
104062	Kaiser Foundation Hospital – Fresno	310	20	0.06452	0.05141	0.07082	0.03541	0.10977	238	0
150782	Ridgecrest Regional Hospital	138	11	0.07971	0.06342	0.07092	0.02579	0.12250	239	0
430743	El Camino Hospital Los Gatos	40	2	0.05000	0.03976	0.07097	0.00000	0.21292	240	0
70924	Contra Costa Regional Medical Center	133	6	0.04511	0.03564	0.07143	0.01190	0.14286	241	0
34002	Sutter Amador Hospital	124	10	0.08065	0.06368	0.07147	0.02144	0.12864	242	0

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OSHPD_ID	**FACNAME**	**N**	**OBS_N**	**OBSERVE**	**PREDICT**	**SCORE**	**SCORE_L**	**SCORE_U**	**HD_RANK**	**CLASS**
370730	Kaiser Foundation Hospital – San Diego	974	56	0.05749	0.04529	0.07163	0.04989	0.09466	243	0
554011	Sonora Regional Medical Center – Greenley	172	12	0.06977	0.05468	0.07200	0.03000	0.12599	244	0
74097	Kaiser Foundation Hospital – Antioch	179	12	0.06704	0.05237	0.07223	0.03010	0.12641	245	0
190125	California Hospital Medical Center – Los Angeles	385	24	0.06234	0.04858	0.07242	0.03923	0.10862	246	0
301279	UC Irvine Medical Center	338	25	0.07396	0.05754	0.07255	0.04063	0.10737	247	0
391042	Saint Joseph's Medical Center of Stockton	533	45	0.08443	0.06527	0.07299	0.04866	0.09894	248	0
370694	Sharp Memorial Hospital	688	54	0.07849	0.06065	0.07303	0.05139	0.09737	249	0
390846	Dameron Hospital	284	20	0.07042	0.05406	0.07351	0.03675	0.11394	250	0
540798	Sierra View District Hospital	374	30	0.08021	0.06098	0.07423	0.04454	0.10640	251	0
444013	Watsonville Community Hospital	159	10	0.06289	0.04776	0.07431	0.02229	0.13376	252	0
214034	Novato Community Hospital	62	7	0.11290	0.08504	0.07492	0.02141	0.14985	253	0
201281	Madera Community Hospital	116	10	0.08621	0.06472	0.07517	0.02255	0.13531	254	0
340951	Methodist Hospital of Sacramento	404	32	0.07921	0.05932	0.07536	0.04710	0.10832	255	0
431506	Kaiser Foundation Hospital – San Jose	512	36	0.07031	0.05209	0.07618	0.04867	0.10792	256	0
281078	Saint Helena Hospital	91	7	0.07692	0.05682	0.07640	0.02183	0.15280	257	0
370782	UC San Diego Medical Center	474	33	0.06962	0.05131	0.07657	0.04641	0.10905	258	0
391056	Sutter Tracy Community Hospital	163	13	0.07975	0.05867	0.07671	0.02950	0.12981	259	0
560508	Saint John's Pleasant Valley Hospital	195	18	0.09231	0.06727	0.07743	0.03872	0.12475	260	0
420514	Santa Barbara Cottage Hospital	606	47	0.07756	0.05635	0.07767	0.05288	0.10576	261	0
430763	El Camino Hospital	593	53	0.08938	0.06493	0.07768	0.05423	0.10406	262	0
340913	Kaiser Foundation Hospital – Sacramento	1081	70	0.06475	0.04701	0.07774	0.05664	0.09995	263	-1
420491	Lompoc Valley Medical Center	150	12	0.08000	0.05712	0.07903	0.03293	0.13831	264	0
10805	Eden Medical Center	308	31	0.10065	0.07157	0.07936	0.04864	0.11520	265	0
281047	Queen of the Valley Hospital – Napa	278	23	0.08273	0.05771	0.08090	0.04573	0.12311	266	0
560501	Ojai Valley Community Hospital	55	4	0.07273	0.05039	0.08144	0.00000	0.18324	267	0
160725	Hanford Community Medical Center	219	19	0.08676	0.05986	0.08179	0.04305	0.12915	268	0

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191227	Los Angeles County/Harbor – UCLA Medical Center	387	12	0.03101	0.02111	0.08291	0.03455	0.14509	269	0
334487	Riverside County Regional Medical Center	314	14	0.04459	0.03033	0.08297	0.03556	0.13631	270	0
130699	El Centro Regional Medical Center	240	20	0.08333	0.05623	0.08363	0.04182	0.12963	271	0
494019	Kaiser Foundation Hospital – Santa Rosa	356	31	0.08708	0.05865	0.08378	0.05135	0.12162	272	0
100717	Community Regional Medical Center – Fresno	919	59	0.06420	0.04311	0.08404	0.05982	0.11110	273	-1
270875	Salinas Valley Memorial Hospital	385	30	0.07792	0.05221	0.08422	0.05053	0.12072	274	0
484001	North Bay VacaValley Hospital	132	13	0.09848	0.06578	0.08449	0.03250	0.14298	275	0
301188	Western Medical Center – Anaheim	48	4	0.08333	0.05531	0.08503	0.00000	0.19131	276	0
491064	Santa Rosa Memorial Hospital – Montgomery	490	52	0.10612	0.07018	0.08534	0.05908	0.11324	277	-1
410891	Sequoia Hospital	175	18	0.10286	0.06795	0.08543	0.04271	0.13763	278	0
14132	Kaiser Foundation Hospital – Fremont	152	13	0.08553	0.05644	0.08551	0.03289	0.14471	279	0
60870	Colusa Regional Medical Center	32	2	0.06250	0.04117	0.08566	0.00000	0.25699	280	0
341006	UC Davis Medical Center	552	42	0.07609	0.04990	0.08604	0.05736	0.11882	281	-1
540734	Kaweah Delta Medical Center	636	58	0.09119	0.05970	0.08620	0.06093	0.11295	282	-1
370714	Grossmont Hospital	1217	89	0.07313	0.04733	0.08720	0.06662	0.10973	283	-1
340950	Mercy San Juan Hospital	846	86	0.10165	0.06480	0.08853	0.06691	0.11117	284	-1
301140	Chapman Medical Center	39	3	0.07692	0.04902	0.08855	0.00000	0.23613	285	0
370780	Tri-City Medical Center – Oceanside	789	76	0.09632	0.06065	0.08963	0.06605	0.11440	286	-1
194219	Keck Hospital of University of Southern California	36	2	0.05556	0.03483	0.09000	0.00000	0.27001	287	0
434153	Kaiser Foundation Hospital – Santa Clara	480	34	0.07083	0.04369	0.09149	0.05651	0.12916	288	-1
240924	Memorial Hospital Los Banos	65	7	0.10769	0.06545	0.09285	0.02653	0.18571	289	0
90793	Barton Memorial Hospital	68	5	0.07353	0.04348	0.09543	0.01909	0.20995	290	0
400524	Sierra Vista Regional Medical Center	233	22	0.09442	0.05527	0.09640	0.05258	0.14898	291	0
540816	Tulare Regional Medical Center	203	14	0.06897	0.04012	0.09701	0.04157	0.15937	292	0
420493	Marian Medical Center	432	44	0.10185	0.05902	0.09738	0.06418	0.13279	293	-1

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OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	HD_RANK	CLASS
381154	UC San Francisco Medical Center	498	54	0.10843	0.06117	0.10003	0.07039	0.13338	294	-1
430805	Kaiser Foundation Hospital – Santa Clara	130	12	0.09231	0.05109	0.10196	0.04248	0.17843	295	0
190696	Pacifica Hospital of the Valley	111	15	0.13514	0.07365	0.10355	0.04832	0.17258	296	0
150736	Kern Medical Center	130	8	0.06154	0.03285	0.10572	0.02643	0.19822	297	0
10846	Alameda County Medical Center – Highland Campus	301	16	0.05316	0.02806	0.10691	0.05346	0.17373	298	0
391010	San Joaquin General Hospital	208	12	0.05769	0.02953	0.11026	0.04594	0.19295	299	0
100797	Sierra Kings District Hospital	35	3	0.08571	0.04188	0.11551	0.00000	0.30801	300	0
141273	Northern Inyo Hospital	37	8	0.21622	0.10497	0.11624	0.02906	0.21794	301	0
191228	Los Angeles County/University of Southern California Medical Center	401	25	0.06234	0.03022	0.11642	0.06520	0.17231	302	-1
160787	Central Valley General Hospital	66	7	0.10606	0.05062	0.11823	0.03378	0.23646	303	0
380939	San Francisco General Hospital	404	41	0.10149	0.04714	0.12150	0.08001	0.16892	304	-1
171049	Saint Helena Hospital – Clearlake	55	7	0.12727	0.05898	0.12178	0.03479	0.24355	305	0
410804	Kaiser Foundation Hospital – Redwood City	377	52	0.13793	0.06198	0.12558	0.08694	0.16664	306	-1
40802	Biggs Gridley Memorial Hospital	37	4	0.10811	0.04679	0.13039	0.00000	0.29337	307	0
364231	Arrowhead Regional Medical Center	405	24	0.05926	0.02359	0.14178	0.07680	0.21267	308	-1
190812	Valley Presbyterian Hospital	275	37	0.13455	0.04878	0.15567	0.10097	0.21878	309	-1
100822	University Medical Center	27	3	0.11111	0.02243	0.27959	0.00000	0.74558	.	0
531059	Trinity Hospital	27	1	0.03704	0.08378	0.02495	0.00000	0.09979	.	0
100697	Coalinga Regional Medical Center	25	3	0.12000	0.05923	0.11433	0.00000	0.30489	.	0
191230	Martin Luther King Jr. – Harbor Hospital	25	0	0.00000	0.05116	0.00000	.	.	.	1
184008	Banner Lassen Medical Center	24	3	0.12500	0.09449	0.07466	0.00000	0.19908	.	0
190661	Silver Lake Medical Center – Downtown Campus	23	0	0.00000	0.08143	0.00000	.	.	.	1
190552	Motion Picture and Television Hospital	21	3	0.14286	0.06432	0.12534	0.00000	0.33425	.	0
420483	Goleta Valley Cottage Hospital	17	0	0.00000	0.05937	0.00000	.	.	.	1
361458	Colorado River Medical Center	16	1	0.06250	0.05934	0.05944	0.00000	0.23774	.	0

Appendix Table Q-1:30-Day Inpatient Death Hospital Rankings

Table Q-1: 30-Day Inpatient Death Hospital Rankings

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	HD_RANK	CLASS
361110	Bear Valley Community Hospital	15	0	0.00000	0.03698	0.00000	.	.	.	1
420522	Santa Ynez Valley Cottage Hospital	15	0	0.00000	0.05771	0.00000	.	.	.	1
270777	George L. Mee Memorial Hospital	14	2	0.14286	0.04723	0.17069	0.00000	0.51208	.	0
450936	Mayers Memorial Hospital	14	3	0.21429	0.04304	0.28096	0.00000	0.74924	.	0
320986	Plumas District Hospital	12	0	0.00000	0.06604	0.00000	.	.	.	1
105029	Fresno Heart and Surgical Hospital	11	1	0.09091	0.06638	0.07728	0.00000	0.30914	.	0
220733	John C. Fremont Healthcare District	11	1	0.09091	0.11202	0.04580	0.00000	0.18319	.	0
484044	Kaiser Foundation Hospital – Vacaville	11	1	0.09091	0.08448	0.06073	0.00000	0.24290	.	0
110889	Glenn Medical Center	8	0	0.00000	0.03471	0.00000	.	.	.	1
320859	Eastern Plumas Hospital – Portola Campus	8	2	0.25000	0.07294	0.19342	0.00000	0.58025	.	0
321016	Seneca Healthcare District	7	1	0.14286	0.11510	0.07004	0.00000	0.28017	.	0
551061	Tuolumne General Medical Facility	7	0	0.00000	0.04169	0.00000	.	.	.	1
150775	Good Samaritan Hospital – Bakersfield	6	2	0.33333	0.03787	0.49671	0.00000	1.49012	.	0
361266	Mountains Community Hospital	6	0	0.00000	0.03373	0.00000	.	.	.	1
100745	Kingsburg Medical Center	5	1	0.20000	0.04818	0.23426	0.00000	0.93703	.	0
160702	Corcoran District Hospital	5	0	0.00000	0.02719	0.00000	.	.	.	1
260011	Mammoth Hospital	5	0	0.00000	0.03390	0.00000	.	.	.	1
190230	Centinela Freeman Regional Medical Center – Memorial Campus	3	0	0.00000	0.12399	0.00000	.	.	.	1
250956	Modoc Medical Center	1	0	0.00000	0.03545	0.00000	.	.	.	.
301155	College Hospital Costa Mesa	1	0	0.00000	0.00816	0.00000	.	.	.	.

Appendix Table Q-2: 30-Day Death Hospital Rankings

3-Year Statewide 30-Day Death Average		
California		
N	Observed	Mean
102,034	11,421	0.1119

Table Q-2: 3-Year 30-Day Death Hospital Rankings (Any Index)

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	DT30_RANK	CLASS
301097	Anaheim General Hospital	32	0	0.00000	0.09102	0.00000	.	.	1	1
190784	Temple Community Hospital	83	1	0.01205	0.09057	0.01489	0.00000	0.05956	2	1
190066	Bellflower Medical Center	59	1	0.01695	0.09020	0.02103	0.00000	0.08413	3	1
190307	Pacific Alliance Medical Center, Inc.	182	4	0.02198	0.08078	0.03045	0.00000	0.06852	4	1
382715	Chinese Hospital	173	3	0.01734	0.05559	0.03492	0.00000	0.09312	5	1
190570	Norwalk Community Hospital	108	5	0.04630	0.13447	0.03854	0.00771	0.08478	6	1
190198	Los Angeles Community Hospital	194	8	0.04124	0.11577	0.03987	0.00997	0.07476	7	1
190256	East Los Angeles Doctors Hospital	119	6	0.05042	0.13954	0.04045	0.00674	0.08089	8	1
230949	Frank R. Howard Memorial Hospital	58	4	0.06897	0.18645	0.04140	0.00000	0.09315	9	1
190380	Hollywood Community Hospital	40	2	0.05000	0.11960	0.04680	0.00000	0.14039	10	0
190524	Mission Community Hospital – Panorama Campus	104	6	0.05769	0.12387	0.05213	0.00869	0.10426	11	1
190017	Alhambra Hospital	144	12	0.08333	0.16696	0.05587	0.02328	0.09777	12	1
334048	Kaiser Foundation Hospital – Moreno Valley	118	6	0.05085	0.10138	0.05614	0.00936	0.11228	13	0
190352	Greater El Monte Community Hospital	116	5	0.04310	0.08492	0.05682	0.01136	0.12500	14	0
190878	White Memorial Medical Center	366	21	0.05738	0.11036	0.05820	0.03048	0.08868	15	1
190382	Hollywood Presbyterian Medical Center	322	20	0.06211	0.11929	0.05828	0.02914	0.09034	16	1
190315	Garfield Medical Center	441	26	0.05896	0.11242	0.05870	0.03387	0.08806	17	1
190197	Community and Mission Hospital of Huntington Park – Slauson	48	2	0.04167	0.07749	0.06019	0.00000	0.18056	18	0
190522	Glendale Memorial Hospital and Medical Center	420	28	0.06667	0.12362	0.06036	0.03449	0.08839	19	1
190587	Pacific Hospital of Long Beach	65	3	0.04615	0.08487	0.06087	0.00000	0.16232	20	0
190081	Beverly Hospital	404	25	0.06188	0.11340	0.06108	0.03421	0.09040	21	1
190762	Saint Vincent Medical Center	281	13	0.04626	0.08300	0.06239	0.02400	0.10559	22	1
190766	Coast Plaza Doctors Hospital	86	7	0.08140	0.14452	0.06304	0.01801	0.12608	23	0

Appendix Table Q-2: 30-Day Death Hospital Rankings

Table Q-2: 3-Year 30-Day Death Hospital Rankings (Any Index)										
OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	DT30_RANK	CLASS
10967	Saint Rose Hospital	234	13	0.05556	0.09850	0.06313	0.02428	0.10684	24	1
214034	Novato Community Hospital	62	5	0.08065	0.14136	0.06386	0.01277	0.14048	25	0
190155	Century City Doctors Hospital	38	4	0.10526	0.18289	0.06442	0.00000	0.14495	26	0
301175	Fountain Valley Regional Hospital and Medical Center – Euclid	499	31	0.06212	0.10753	0.06467	0.03964	0.09388	27	1
190159	Tri-City Regional Medical Center – Hawaiian Gardens	60	5	0.08333	0.14106	0.06612	0.01322	0.14547	28	0
70934	Sutter Delta Medical Center	323	32	0.09907	0.16401	0.06762	0.04226	0.09720	29	1
392287	Doctors Hospital of Manteca	133	10	0.07519	0.12285	0.06851	0.02055	0.12332	30	0
301132	Kaiser Foundation Hospital – Anaheim	537	30	0.05587	0.09023	0.06930	0.04158	0.09934	31	1
196403	Kaiser Foundation Hospital – Downey	46	2	0.04348	0.06983	0.06969	0.00000	0.20907	32	0
361144	Chino Valley Medical Center	340	21	0.06176	0.09867	0.07007	0.03670	0.10677	33	1
191450	Kaiser Foundation Hospital – Woodland Hills	483	38	0.07867	0.12468	0.07063	0.04461	0.09852	34	1
490964	Healdsburg District Hospital	50	5	0.10000	0.15522	0.07211	0.01442	0.15864	35	0
190555	Cedars Sinai Medical Center	875	67	0.07657	0.11486	0.07462	0.05457	0.09689	36	1
371256	Scripps Green Hospital	269	17	0.06320	0.09395	0.07530	0.03543	0.11959	37	0
301258	Coastal Communities Hospital	52	5	0.09615	0.14077	0.07645	0.01529	0.16820	38	0
190529	Methodist Hospital of Southern California	659	59	0.08953	0.12953	0.07737	0.05508	0.10228	39	1
190500	Marina Del Rey Hospital	180	16	0.08889	0.12839	0.07749	0.03875	0.12593	40	0
190053	Saint Mary Medical Center	349	24	0.06877	0.09912	0.07766	0.04206	0.11649	41	0
190429	Kaiser Foundation Hospital – Sunset	492	22	0.04472	0.06423	0.07793	0.04251	0.12044	42	0
274043	Natividad Medical Center	68	2	0.02941	0.04212	0.07816	0.00000	0.23448	43	0
190517	Providence Tarzana Medical Center	291	27	0.09278	0.13173	0.07884	0.04672	0.11680	44	0
350784	Hazel Hawkins Memorial Hospital	65	5	0.07692	0.10909	0.07893	0.01579	0.17364	45	0
370705	Fallbrook Hospital District	57	4	0.07018	0.09905	0.07930	0.00000	0.17842	46	0
481357	North Bay Medical Center	149	16	0.10738	0.14944	0.08043	0.04021	0.13070	47	0
10987	Washington Hospital – Fremont	599	55	0.09182	0.12600	0.08157	0.05784	0.10827	48	1
190200	San Gabriel Valley Medical Center	372	46	0.12366	0.16925	0.08178	0.05511	0.11022	49	1
190280	Encino Hospital Medical Center	90	9	0.10000	0.13654	0.08198	0.02733	0.15485	50	0
380960	Saint Francis Memorial Hospital	238	17	0.07143	0.09676	0.08263	0.03888	0.13123	51	0
14050	Valleycare Medical Center	135	11	0.08148	0.11026	0.08272	0.03008	0.14288	52	0

Appendix Table Q-2: 30-Day Death Hospital Rankings

Table Q-2: 3-Year 30-Day Death Hospital Rankings (Any Index)										
OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	DT30_RANK	CLASS
361339	Saint Bernadine Medical Center	467	36	0.07709	0.10425	0.08277	0.05288	0.11726	53	0
190854	Los Angeles Metropolitan Medical Center	65	3	0.04615	0.06221	0.08305	0.00000	0.22146	54	0
190534	Olympia Medical Center	291	27	0.09278	0.12492	0.08314	0.04927	0.12317	55	0
410852	Peninsula Medical Center	563	63	0.11190	0.14887	0.08413	0.06010	0.10951	56	1
300225	Orange Coast Memorial Medical Center	393	29	0.07379	0.09792	0.08435	0.04945	0.12216	57	0
50932	Mark Twain Saint Joseph's Hospital	78	9	0.11538	0.15112	0.08546	0.02849	0.16143	58	0
370759	Paradise Valley Hospital	295	19	0.06441	0.08419	0.08563	0.04507	0.13521	59	0
474007	Fairchild Medical Center	79	9	0.11392	0.14875	0.08573	0.02858	0.16193	60	0
491001	Petaluma Valley Hospital	153	18	0.11765	0.15348	0.08580	0.04290	0.13823	61	0
240942	Mercy Medical Center – Merced	366	35	0.09563	0.12337	0.08676	0.05454	0.12147	62	0
370652	Alvarado Hospital	286	26	0.09091	0.11678	0.08714	0.05027	0.13071	63	0
10983	Valley Memorial Hospital – Livermore	78	8	0.10256	0.13116	0.08753	0.02188	0.16412	64	0
40875	Feather River Hospital	207	29	0.14010	0.17862	0.08779	0.05146	0.12715	65	0
521041	Saint Elizabeth Community Hospital	208	19	0.09135	0.11579	0.08830	0.04647	0.13942	66	0
40937	Oroville Hospital	270	29	0.10741	0.13612	0.08833	0.05178	0.12792	67	0
60870	Colusa Regional Medical Center	32	3	0.09375	0.11877	0.08835	0.00000	0.23561	68	0
70988	John Muir Medical Center – Walnut Creek Campus	562	77	0.13701	0.17315	0.08857	0.06557	0.11273	69	0
380965	Saint Mary's Medical Center, San Francisco	191	20	0.10471	0.13220	0.08866	0.04433	0.13742	70	0
430743	El Camino Hospital Los Gatos	40	3	0.07500	0.09459	0.08875	0.00000	0.23667	71	0
190756	Saint John's Health Center	387	41	0.10594	0.13285	0.08926	0.05878	0.12409	72	0
150761	Mercy Hospital – Bakersfield	465	43	0.09247	0.11547	0.08964	0.06046	0.12300	73	0
190323	Glendale Adventist Medical Center – Wilson Terrace	494	54	0.10931	0.13603	0.08995	0.06330	0.11993	74	0
190754	Saint Francis Medical Center	475	39	0.08211	0.10199	0.09011	0.05776	0.12477	75	0
560529	Saint John's Regional Medical Center	440	36	0.08182	0.10152	0.09021	0.05763	0.12779	76	0
190859	West Hills Hospital and Medical Center	287	35	0.12195	0.15017	0.09090	0.05714	0.12726	77	0
301098	AHMC Anaheim Regional Medical Center	476	37	0.07773	0.09556	0.09105	0.05906	0.12796	78	0
190708	Sherman Oaks Hospital	192	19	0.09896	0.11889	0.09317	0.04904	0.14711	79	0
190547	Monterey Park Hospital	120	11	0.09167	0.10958	0.09364	0.03405	0.16173	80	0
150737	Kern Valley Healthcare District	38	5	0.13158	0.15703	0.09379	0.01876	0.20634	81	0

Appendix Table Q-2: 30-Day Death Hospital Rankings

Table Q-2: 3-Year 30-Day Death Hospital Rankings (Any Index)										
OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	DT30_RANK	CLASS
371394	Scripps Memorial Hospital – Encinitas	370	46	0.12432	0.14813	0.09395	0.06331	0.12663	82	0
90933	Marshall Medical Center	236	33	0.13983	0.16626	0.09414	0.05705	0.13407	83	0
370744	Scripps Mercy Hospital	707	64	0.09052	0.10715	0.09456	0.06797	0.12264	84	0
301234	La Palma Intercommunity Hospital	187	13	0.06952	0.08212	0.09475	0.03644	0.16035	85	0
304045	Hoag Hospital Irvine	152	13	0.08553	0.10037	0.09538	0.03668	0.16141	86	0
194219	Keck Hospital of University of Southern California	36	2	0.05556	0.06483	0.09592	0.00000	0.28776	87	0
150722	Bakersfield Memorial Hospital	521	38	0.07294	0.08509	0.09595	0.06060	0.13382	88	0
191231	Los Angeles County/Olive View – UCLA Medical Center	234	8	0.03419	0.03980	0.09615	0.02404	0.18029	89	0
380964	California Pacific Medical Center – St. Luke's Campus	106	12	0.11321	0.13178	0.09616	0.04007	0.16828	90	0
190521	Memorial Hospital of Gardena	239	19	0.07950	0.09249	0.09621	0.05064	0.15191	91	0
361166	Montclair Hospital Medical Center	114	10	0.08772	0.10112	0.09710	0.02913	0.17478	92	0
190758	Providence Saint Joseph Medical Center	670	67	0.10000	0.11475	0.09754	0.07134	0.12666	93	0
410817	Seton Medical Center	366	42	0.11475	0.13168	0.09755	0.06503	0.13471	94	0
190796	Ronald Reagan UCLA Medical Center	488	43	0.08811	0.10102	0.09763	0.06584	0.13396	95	0
434138	Saint Louise Regional Hospital	78	6	0.07692	0.08807	0.09776	0.01629	0.19553	96	0
490919	Sutter Medical Center of Santa Rosa	111	16	0.14414	0.16492	0.09783	0.04892	0.15898	97	0
190687	Santa Monica – UCLA Medical Center and Orthopedic Hospital	364	36	0.09890	0.11278	0.09816	0.06271	0.13906	98	0
190328	East Valley Hospital Medical Center	57	6	0.10526	0.11909	0.09894	0.01649	0.19788	99	0
331293	Parkview Community Hospital Medical Center	233	22	0.09442	0.10673	0.09902	0.05401	0.15303	100	0
231396	Ukiah Valley Medical Center	127	20	0.15748	0.17790	0.09909	0.04954	0.15358	101	0
364144	Desert Valley Hospital	382	34	0.08901	0.10053	0.09910	0.06121	0.13991	102	0
71018	John Muir Medical Center – Concord Campus	448	57	0.12723	0.14368	0.09912	0.06956	0.13042	103	0
301283	Garden Grove Hospital and Medical Center	222	22	0.09910	0.11189	0.09914	0.05408	0.15322	104	0
331312	Riverside Community Hospital	556	56	0.10072	0.11275	0.09999	0.06963	0.13213	105	0
331288	Palo Verde Hospital	32	3	0.09375	0.10491	0.10003	0.00000	0.26673	106	0
334068	Southwest Healthcare System – Murrieta	617	63	0.10211	0.11423	0.10006	0.07147	0.13023	107	0
190525	Long Beach Memorial Medical Center	905	67	0.07403	0.08275	0.10014	0.07324	0.13004	108	0
84001	Sutter Coast Hospital	143	20	0.13986	0.15613	0.10027	0.05014	0.15542	109	0
361246	Loma Linda University Medical Center	520	48	0.09231	0.10298	0.10034	0.06898	0.13587	110	0

Appendix Table Q-2: 30-Day Death Hospital Rankings

Table Q-2: 3-Year 30-Day Death Hospital Rankings (Any Index)										
OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	DT30_RANK	CLASS
301262	Mission Hospital Regional Medical Center	583	64	0.10978	0.12232	0.10046	0.07220	0.13028	111	0
190392	Good Samaritan Hospital – Los Angeles	378	32	0.08466	0.09381	0.10101	0.06313	0.14520	112	0
301340	Saint Joseph Hospital – Orange	588	57	0.09694	0.10739	0.10104	0.07090	0.13294	113	0
34002	Sutter Amador Hospital	124	18	0.14516	0.16044	0.10127	0.05064	0.16316	114	0
440755	Dominican Hospital – Santa Cruz/Soquel	478	57	0.11925	0.13174	0.10132	0.07110	0.13332	115	0
554011	Sonora Regional Medical Center – Greenley	172	24	0.13953	0.15391	0.10148	0.05497	0.15222	116	0
361318	San Antonio Community Hospital	579	59	0.10190	0.11211	0.10174	0.07243	0.13451	117	0
560473	Community Memorial Hospital – San Buenaventura	510	55	0.10784	0.11861	0.10177	0.07217	0.13508	118	0
500939	Memorial Hospital Medical Center – Modesto	730	80	0.10959	0.12017	0.10208	0.07656	0.13015	119	0
370771	Scripps Memorial Hospital – La Jolla	498	64	0.12851	0.14018	0.10262	0.07376	0.13308	120	0
301209	Huntington Beach Hospital	151	16	0.10596	0.11555	0.10264	0.05132	0.16679	121	0
210992	Kaiser Foundation Hospital – San Rafael	289	30	0.10381	0.11307	0.10276	0.06166	0.14729	122	0
190631	Presbyterian Intercommunity Hospital	610	62	0.10164	0.11046	0.10299	0.07309	0.13455	123	0
481094	Sutter Solano Medical Center	238	25	0.10504	0.11350	0.10359	0.05801	0.15332	124	0
190034	Antelope Valley Hospital	634	57	0.08991	0.09706	0.10368	0.07276	0.13643	125	0
190385	Providence Holy Cross Medical Center	477	41	0.08595	0.09273	0.10375	0.06833	0.14424	126	0
190422	Torrance Memorial Medical Center	704	69	0.09801	0.10567	0.10382	0.07523	0.13391	127	0
450949	Mercy Medical Center – Redding	494	61	0.12348	0.13299	0.10393	0.07497	0.13630	128	0
340947	Mercy General Hospital	509	48	0.09430	0.10137	0.10413	0.07159	0.14101	129	0
190949	Henry Mayo Newhall Memorial Hospital	376	48	0.12766	0.13671	0.10453	0.07186	0.14155	130	0
370730	Kaiser Foundation Hospital – San Diego	974	88	0.09035	0.09651	0.10479	0.07978	0.13218	131	0
150706	Delano Regional Medical Center	87	10	0.11494	0.12230	0.10520	0.03156	0.18935	132	0
344029	Mercy Hospital – Folsom	213	27	0.12676	0.13421	0.10572	0.06265	0.15662	133	0
196035	Kaiser Foundation Hospital – Baldwin Park	544	42	0.07721	0.08163	0.10586	0.07057	0.14619	134	0
74093	Kaiser Foundation Hospital – Richmond Campus	146	16	0.10959	0.11543	0.10627	0.05313	0.17269	135	0
190413	Citrus Valley Medical Center – Inter Community Campus	356	42	0.11798	0.12406	0.10645	0.07097	0.14700	136	0
301317	Saddleback Memorial Medical Center	626	91	0.14537	0.15281	0.10648	0.08191	0.13339	137	0
10937	Alta Bates Summit Medical Center – Summit Campus – Hawthorne	684	61	0.08918	0.09369	0.10654	0.07685	0.13973	138	0
361323	Community Hospital of San Bernardino	219	21	0.09589	0.10062	0.10667	0.05587	0.16254	139	0

Appendix Table Q-2: 30-Day Death Hospital Rankings

Table Q-2: 3-Year 30-Day Death Hospital Rankings (Any Index)										
OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	DT30_RANK	CLASS
560492	Los Robles Hospital and Medical Center	411	53	0.12895	0.13501	0.10691	0.07464	0.14322	140	0
190243	Downey Regional Medical Center	499	50	0.10020	0.10490	0.10692	0.07271	0.14327	141	0
190431	Kaiser Foundation Hospital – Harbor City	512	39	0.07617	0.07970	0.10698	0.06858	0.14813	142	0
301205	Hoag Memorial Hospital Presbyterian	1024	119	0.11621	0.12155	0.10702	0.08454	0.13040	143	0
40962	Enloe Medical Center – Esplanade Campus	463	46	0.09935	0.10385	0.10709	0.07217	0.14434	144	0
190883	Whittier Hospital Medical Center	357	43	0.12045	0.12580	0.10717	0.07228	0.14704	145	0
291023	Sierra Nevada Memorial Hospital	261	32	0.12261	0.12804	0.10719	0.06699	0.15408	146	0
211006	Marin General Hospital	372	49	0.13172	0.13734	0.10735	0.07230	0.14459	147	0
10735	Alameda Hospital	117	15	0.12821	0.13367	0.10736	0.05010	0.17893	148	0
491338	Palm Drive Hospital	51	9	0.17647	0.18305	0.10791	0.03597	0.20383	149	0
311000	Sutter Roseville Medical Center	549	82	0.14936	0.15489	0.10794	0.08161	0.13690	150	0
510882	Fremont Medical Center	108	14	0.12963	0.13413	0.10818	0.04636	0.17772	151	0
361308	Redlands Community Hospital	337	45	0.13353	0.13697	0.10913	0.07275	0.14793	152	0
301566	Western Medical Center – Santa Ana	275	32	0.11636	0.11912	0.10935	0.06834	0.15719	153	0
314024	Kaiser Foundation Hospital – Roseville	210	25	0.11905	0.12125	0.10990	0.06155	0.16266	154	0
361343	Saint Mary Regional Medical Center	588	50	0.08503	0.08634	0.11024	0.07496	0.14772	155	0
190673	San Dimas Community Hospital	180	21	0.11667	0.11829	0.11039	0.05783	0.16822	156	0
190110	Brotman Medical Center	235	27	0.11489	0.11626	0.11062	0.06555	0.16388	157	0
491064	Santa Rosa Memorial Hospital – Montgomery	490	75	0.15306	0.15452	0.11088	0.08279	0.14192	158	0
190630	Pomona Valley Hospital Medical Center	596	65	0.10906	0.11000	0.11098	0.08024	0.14341	159	0
370689	Sharp Coronado Hospital and Healthcare Center	52	7	0.13462	0.13445	0.11207	0.03202	0.22415	160	0
430779	Good Samaritan Hospital – San Jose	540	65	0.12037	0.12019	0.11210	0.08106	0.14487	161	0
380929	California Pacific Medical Center – Pacific Campus	647	74	0.11437	0.11413	0.11217	0.08337	0.14400	162	0
394009	Kaiser Foundation Hospital – Manteca	184	17	0.09239	0.09149	0.11303	0.05319	0.17952	163	0
301379	West Anaheim Medical Center	283	36	0.12721	0.12564	0.11333	0.07240	0.16055	164	0
121080	Saint Joseph Hospital – Eureka	263	37	0.14068	0.13863	0.11359	0.07368	0.15965	165	0
480989	Kaiser Foundation Hospital – Rehabilitation Center Vallejo	706	76	0.10765	0.10573	0.11397	0.08397	0.14546	166	0
190568	Northridge Hospital Medical Center	431	52	0.12065	0.11848	0.11399	0.07891	0.15125	167	0
190470	Providence Little Company of Mary Medical Center – Torrance	589	67	0.11375	0.11153	0.11416	0.08349	0.14824	168	0

Appendix Table Q-2: 30-Day Death Hospital Rankings

Table Q-2: 3-Year 30-Day Death Hospital Rankings (Any Index)										
OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	DT30_RANK	CLASS
430883	Santa Clara Valley Medical Center	478	28	0.05858	0.05728	0.11447	0.06541	0.16762	169	0
13619	San Leandro Hospital	260	38	0.14615	0.14236	0.11492	0.07258	0.16028	170	0
190125	California Hospital Medical Center – Los Angeles	385	29	0.07532	0.07331	0.11501	0.06742	0.16657	171	0
400480	French Hospital Medical Center	176	22	0.12500	0.12153	0.11513	0.06280	0.17793	172	0
361105	Barstow Community Hospital	178	16	0.08989	0.08733	0.11521	0.05761	0.18722	173	0
190432	Kaiser Foundation Hospital – Panorama City	514	49	0.09533	0.09260	0.11523	0.07760	0.15521	174	0
301342	Saint Jude Medical Center	737	93	0.12619	0.12200	0.11578	0.08839	0.14441	175	0
190680	Providence Little Company of Mary Medical Center – San Pedro	222	24	0.10811	0.10448	0.11582	0.06274	0.17373	176	0
190475	Community Hospital of Long Beach	153	24	0.15686	0.15147	0.11592	0.06279	0.17387	177	0
370875	Sharp Chula Vista Medical Center	626	65	0.10383	0.10022	0.11597	0.08386	0.14987	178	0
190818	Verdugo Hills Hospital	242	35	0.14463	0.13948	0.11607	0.07296	0.16249	179	0
331168	Eisenhower Medical Center	1013	107	0.10563	0.10168	0.11628	0.09129	0.14345	180	0
301188	Western Medical Center – Anaheim	48	5	0.10417	0.10026	0.11630	0.02326	0.25585	181	0
301140	Chapman Medical Center	39	5	0.12821	0.12320	0.11648	0.02330	0.25625	182	0
130760	Pioneers Memorial Hospital	146	15	0.10274	0.09868	0.11654	0.05438	0.19423	183	0
190148	Centinela Hospital Medical Center	1095	72	0.06575	0.06311	0.11662	0.08584	0.14901	184	0
301248	Los Alamitos Medical Center	499	73	0.14629	0.14012	0.11687	0.08645	0.15048	185	0
190430	Kaiser Foundation Hospital – Bellflower	564	51	0.09043	0.08653	0.11698	0.08028	0.15597	186	0
291053	Tahoe Forest Hospital	32	4	0.12500	0.11916	0.11742	0.00000	0.26419	187	0
190400	Huntington Memorial Hospital	713	77	0.10799	0.10269	0.11772	0.08714	0.14983	188	0
370755	Palomar Medical Center	949	129	0.13593	0.12875	0.11818	0.09436	0.14291	189	0
431506	Kaiser Foundation Hospital – San Jose	512	59	0.11523	0.10886	0.11848	0.08434	0.15664	190	0
370694	Sharp Memorial Hospital	688	87	0.12645	0.11904	0.11890	0.09020	0.14897	191	0
331326	San Gorgonio Memorial Hospital	227	33	0.14537	0.13649	0.11922	0.07225	0.16979	192	0
154101	Bakersfield Heart Hospital	127	13	0.10236	0.09606	0.11928	0.04588	0.20185	193	0
10739	Alta Bates Summit Medical Center – Alta Bates Campus	554	51	0.09206	0.08629	0.11942	0.08195	0.15922	194	0
370658	Scripps Mercy Hospital – Chula Vista	301	32	0.10631	0.09959	0.11949	0.07468	0.17177	195	0
361223	Kaiser Foundation Hospital – Fontana	862	77	0.08933	0.08365	0.11953	0.08848	0.15213	196	0
10856	Kaiser Foundation Hospital – Oakland Campus	529	44	0.08318	0.07768	0.11985	0.07900	0.16344	197	0

Appendix Table Q-2: 30-Day Death Hospital Rankings

Table Q-2: 3-Year 30-Day Death Hospital Rankings (Any Index)										
OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	DT30_RANK	CLASS
70904	Doctors Medical Center – San Pablo	361	46	0.12742	0.11852	0.12035	0.08110	0.16220	198	0
410806	Kaiser Foundation Hospital – South San Francisco	329	34	0.10334	0.09610	0.12037	0.07435	0.16993	199	0
121002	Mad River Community Hospital	101	12	0.11881	0.11038	0.12048	0.05020	0.21085	200	0
74097	Kaiser Foundation Hospital – Antioch	179	23	0.12849	0.11927	0.12059	0.06816	0.18350	201	0
410891	Sequoia Hospital	175	28	0.16000	0.14835	0.12072	0.06898	0.17677	202	0
341006	UC Davis Medical Center	552	47	0.08514	0.07839	0.12158	0.08278	0.16556	203	0
190298	Foothill Presbyterian Hospital – Johnston Memorial	275	36	0.13091	0.12041	0.12169	0.07775	0.17239	204	0
310791	Sutter Auburn Faith Hospital	222	33	0.14865	0.13657	0.12183	0.07384	0.17352	205	0
340913	Kaiser Foundation Hospital – Sacramento	1081	123	0.11378	0.10446	0.12192	0.09714	0.14868	206	0
90793	Barton Memorial Hospital	68	7	0.10294	0.09447	0.12197	0.03485	0.24395	207	0
240924	Memorial Hospital Los Banos	65	10	0.15385	0.14109	0.12205	0.03662	0.21969	208	0
341052	Sutter Memorial Hospital	163	17	0.10429	0.09547	0.12228	0.05754	0.19421	209	0
70924	Contra Costa Regional Medical Center	133	9	0.06767	0.06188	0.12240	0.04080	0.23120	210	0
301279	UC Irvine Medical Center	338	36	0.10651	0.09738	0.12243	0.07822	0.17344	211	0
190636	Citrus Valley Medical Center – Queen of the Valley Campus	421	43	0.10214	0.09313	0.12276	0.08279	0.16844	212	0
430705	Regional Medical of San Jose	571	64	0.11208	0.10175	0.12331	0.08863	0.15991	213	0
500852	Doctors Medical Center	432	56	0.12963	0.11711	0.12390	0.08628	0.16372	214	0
580996	Rideout Memorial Hospital	324	42	0.12963	0.11676	0.12427	0.08284	0.17161	215	0
342344	Kaiser Foundation Hospital – South Sacramento	540	58	0.10741	0.09655	0.12452	0.08802	0.16316	216	0
500967	Oak Valley District Hospital	87	13	0.14943	0.13382	0.12499	0.04807	0.21152	217	0
74017	San Ramon Regional Medical Center	139	21	0.15108	0.13516	0.12512	0.06554	0.19065	218	0
560508	Saint John's Pleasant Valley Hospital	195	32	0.16410	0.14624	0.12561	0.07850	0.18056	219	0
434153	Kaiser Foundation Hospital – Santa Clara	480	49	0.10208	0.09076	0.12590	0.08479	0.16958	220	0
370714	Grossmont Hospital	1217	146	0.11997	0.10658	0.12599	0.10269	0.15102	221	0
301325	Saddleback Memorial Medical Center – San Clemente	103	15	0.14563	0.12875	0.12660	0.05908	0.21101	222	0
430905	Stanford Hospital	560	68	0.12143	0.10713	0.12687	0.09329	0.16419	223	0
270744	Community Hospital Monterey Peninsula	439	61	0.13895	0.12256	0.12690	0.09153	0.16643	224	0
450940	Shasta Regional Medical Center	367	51	0.13896	0.12257	0.12690	0.08709	0.16920	225	0
390923	Lodi Memorial Hospital	333	50	0.15015	0.13232	0.12701	0.08637	0.17020	226	0

Appendix Table Q-2: 30-Day Death Hospital Rankings

Table Q-2: 3-Year 30-Day Death Hospital Rankings (Any Index)										
OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	DT30_RANK	CLASS
571086	Woodland Memorial Hospital	200	31	0.15500	0.13620	0.12739	0.07808	0.18492	227	0
430763	El Camino Hospital	593	84	0.14165	0.12416	0.12771	0.09578	0.16115	228	0
301337	Mission Hospital Laguna Beach	74	15	0.20270	0.17751	0.12782	0.05965	0.21303	229	0
231013	Mendocino Coast District Hospital	62	12	0.19355	0.16931	0.12796	0.05332	0.22393	230	0
10858	Kaiser Foundation Hospital – Hayward	348	52	0.14943	0.13048	0.12818	0.08874	0.17009	231	0
400548	Twin Cities Community Hospital	326	48	0.14724	0.12814	0.12861	0.08842	0.17416	232	0
70990	Kaiser Foundation Hospital – Walnut Creek	554	90	0.16245	0.14061	0.12932	0.09914	0.16237	233	0
14132	Kaiser Foundation Hospital – Fremont	152	20	0.13158	0.11279	0.13058	0.06529	0.20241	234	0
331152	Corona Regional Medical Center – Main	292	37	0.12671	0.10840	0.13084	0.08487	0.18388	235	0
10805	Eden Medical Center	308	52	0.16883	0.14416	0.13109	0.09075	0.17394	236	0
190240	Lakewood Regional Medical Center	420	54	0.12857	0.10955	0.13137	0.09244	0.17516	237	0
281047	Queen of the Valley Hospital – Napa	278	48	0.17266	0.14671	0.13174	0.09057	0.17839	238	0
491076	Sonoma Valley Hospital	125	27	0.21600	0.18216	0.13273	0.07865	0.19663	239	0
171395	Sutter Lakeside Hospital	133	29	0.21805	0.18332	0.13314	0.07805	0.19282	240	0
391042	Saint Joseph's Medical Center of Stockton	533	79	0.14822	0.12453	0.13323	0.09950	0.16864	241	0
331164	Desert Regional Medical Center	599	79	0.13189	0.11054	0.13355	0.09974	0.16905	242	0
361370	Victor Valley Community Hospital	149	18	0.12081	0.10047	0.13459	0.06730	0.21685	243	0
380857	Kaiser Foundation Hospital – San Francisco	418	42	0.10048	0.08334	0.13495	0.08997	0.18636	244	0
331194	Hemet Valley Medical Center	578	104	0.17993	0.14913	0.13505	0.10519	0.16622	245	0
574010	Sutter Davis Hospital	95	19	0.20000	0.16562	0.13517	0.07114	0.21342	246	0
130699	El Centro Regional Medical Center	240	30	0.12500	0.10262	0.13635	0.08181	0.19543	247	0
484001	North Bay VacaValley Hospital	132	25	0.18939	0.15547	0.13636	0.07636	0.20181	248	0
370977	Pomerado Hospital	305	51	0.16721	0.13702	0.13659	0.09374	0.18213	249	0
560481	Ventura County Medical Center	230	27	0.11739	0.09616	0.13665	0.08098	0.20244	250	0
160725	Hanford Community Medical Center	219	34	0.15525	0.12691	0.13692	0.08457	0.19331	251	0
494019	Kaiser Foundation Hospital – Santa Rosa	356	58	0.16292	0.13203	0.13812	0.09764	0.18099	252	0
100899	Saint Agnes Medical Center	1042	165	0.15835	0.12829	0.13817	0.11388	0.16412	253	-1
341051	Sutter General Hospital	504	68	0.13492	0.10858	0.13909	0.10227	0.18000	254	0
400466	Arroyo Grande Community Hospital	157	25	0.15924	0.12792	0.13934	0.07803	0.20622	255	0

Appendix Table Q-2: 30-Day Death Hospital Rankings

Table Q-2: 3-Year 30-Day Death Hospital Rankings (Any Index)										
OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	DT30_RANK	CLASS
470871	Mercy Medical Center Mt. Shasta	38	5	0.13158	0.10553	0.13957	0.02791	0.30704	256	0
560525	Simi Valley Hospital and Healthcare Services – Sycamore	210	34	0.16190	0.12981	0.13961	0.08623	0.19710	257	0
420493	Marian Medical Center	432	70	0.16204	0.12983	0.13971	0.10179	0.17962	258	0
391056	Sutter Tracy Community Hospital	163	28	0.17178	0.13700	0.14035	0.08020	0.20552	259	0
301297	Placentia Linda Hospital	182	27	0.14835	0.11828	0.14039	0.08319	0.20798	260	0
540734	Kaweah Delta Medical Center	636	97	0.15252	0.12107	0.14100	0.10902	0.17589	261	0
540798	Sierra View District Hospital	374	56	0.14973	0.11863	0.14128	0.09839	0.18669	262	0
340951	Methodist Hospital of Sacramento	404	59	0.14604	0.11504	0.14210	0.10116	0.18786	263	0
281078	Saint Helena Hospital	91	15	0.16484	0.12984	0.14210	0.06631	0.23684	264	0
410804	Kaiser Foundation Hospital – Redwood City	377	55	0.14589	0.11490	0.14212	0.10078	0.18863	265	0
430837	O'Connor Hospital – San Jose	348	53	0.15230	0.11821	0.14422	0.10068	0.19319	266	0
500867	Emanuel Medical Center, Inc.	323	46	0.14241	0.11035	0.14446	0.09736	0.19471	267	0
150788	San Joaquin Community Hospital	591	82	0.13875	0.10733	0.14469	0.10940	0.18351	268	0
334018	Menifee Valley Medical Center	241	42	0.17427	0.13468	0.14484	0.09656	0.20002	269	0
420514	Santa Barbara Cottage Hospital	606	94	0.15512	0.11950	0.14529	0.11129	0.18084	270	0
540816	Tulare Regional Medical Center	203	24	0.11823	0.09107	0.14532	0.07871	0.21797	271	0
370782	UC San Diego Medical Center	474	53	0.11181	0.08599	0.14555	0.10161	0.19499	272	0
331216	John F. Kennedy Memorial Hospital	190	24	0.12632	0.09690	0.14591	0.07903	0.21886	273	0
381154	UC San Francisco Medical Center	498	67	0.13454	0.10255	0.14685	0.10740	0.19069	274	0
334025	Kaiser Foundation Hospital – Riverside	503	66	0.13121	0.09943	0.14771	0.10742	0.19247	275	0
190455	Lancaster Community Hospital	245	35	0.14286	0.10754	0.14870	0.09347	0.20818	276	0
201281	Madera Community Hospital	116	19	0.16379	0.12303	0.14902	0.07843	0.23530	277	0
444013	Watsonville Community Hospital	159	20	0.12579	0.09356	0.15048	0.07524	0.23325	278	0
340950	Mercy San Juan Hospital	846	149	0.17612	0.13072	0.15081	0.12247	0.18017	279	-1
190434	Kaiser Foundation Hospital – West Los Angeles	587	66	0.11244	0.08305	0.15154	0.11021	0.19746	280	0
150782	Ridgecrest Regional Hospital	138	28	0.20290	0.14920	0.15222	0.08698	0.22289	281	0
121051	Redwood Memorial Hospital	61	13	0.21311	0.15630	0.15262	0.05870	0.25829	282	0
270875	Salinas Valley Memorial Hospital	385	56	0.14545	0.10586	0.15380	0.10711	0.20323	283	0
100717	Community Regional Medical Center – Fresno	919	95	0.10337	0.07507	0.15413	0.11843	0.19144	284	-1

Appendix Table Q-2: 30-Day Death Hospital Rankings

Table Q-2: 3-Year 30-Day Death Hospital Rankings (Any Index)										
OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	DT30_RANK	CLASS
190696	Pacifica Hospital of the Valley	111	20	0.18018	0.13065	0.15437	0.07718	0.23927	285	0
420491	Lompoc Valley Medical Center	150	24	0.16000	0.11566	0.15484	0.08387	0.23226	286	0
370780	Tri-City Medical Center – Oceanside	789	150	0.19011	0.13743	0.15484	0.12594	0.18478	287	-1
191227	Los Angeles County/Harbor – UCLA Medical Center	387	17	0.04393	0.03154	0.15592	0.07337	0.24763	288	0
104062	Kaiser Foundation Hospital – Fresno	310	51	0.16452	0.11603	0.15870	0.10891	0.21161	289	0
362041	Hi-Desert Medical Center	197	34	0.17259	0.12018	0.16074	0.09928	0.22693	290	0
391010	San Joaquin General Hospital	208	16	0.07692	0.05346	0.16105	0.08052	0.26170	291	0
100005	Clovis Community Medical Center	172	26	0.15116	0.10396	0.16276	0.09390	0.24413	292	0
430805	Kaiser Foundation Hospital – Santa Clara	130	18	0.13846	0.09522	0.16277	0.08138	0.26224	293	0
400524	Sierra Vista Regional Medical Center	233	40	0.17167	0.11738	0.16371	0.10641	0.22511	294	0
100797	Sierra Kings District Hospital	35	5	0.14286	0.09605	0.16648	0.03330	0.36625	295	0
190812	Valley Presbyterian Hospital	275	42	0.15273	0.10082	0.16957	0.11304	0.23416	296	-1
160787	Central Valley General Hospital	66	11	0.16667	0.10688	0.17455	0.06347	0.30149	297	0
390846	Dameron Hospital	284	46	0.16197	0.10352	0.17514	0.11803	0.23606	298	-1
334487	Riverside County Regional Medical Center	314	25	0.07962	0.05047	0.17657	0.09888	0.26132	299	0
141273	Northern Inyo Hospital	37	13	0.35135	0.21763	0.18071	0.06950	0.30581	300	0
380939	San Francisco General Hospital	404	43	0.10644	0.06441	0.18496	0.12474	0.25379	301	-1
171049	Saint Helena Hospital – Clearlake	55	13	0.23636	0.13852	0.19100	0.07346	0.32323	302	0
191228	Los Angeles County/University of Southern California Medical Center	401	27	0.06733	0.03818	0.19740	0.11698	0.29244	303	-1
410782	San Mateo Medical Center	69	7	0.10145	0.05667	0.20038	0.05725	0.40076	304	0
10846	Alameda County Medical Center – Highland Campus	301	23	0.07641	0.04225	0.20243	0.11441	0.30804	305	-1
560501	Ojai Valley Community Hospital	55	13	0.23636	0.12711	0.20814	0.08005	0.35224	306	0
150736	Kern Medical Center	130	13	0.10000	0.05265	0.21258	0.08176	0.35975	307	0
40802	Biggs Gridley Memorial Hospital	37	11	0.29730	0.13097	0.25408	0.09239	0.43887	308	0
364231	Arrowhead Regional Medical Center	405	38	0.09383	0.04089	0.25682	0.16220	0.35820	309	-1
100822	University Medical Center	27	1	0.03704	0.03056	0.13564	0.00000	0.54257	.	0
531059	Trinity Hospital	27	2	0.07407	0.19801	0.04187	0.00000	0.12562	.	0
100697	Coalinga Regional Medical Center	25	4	0.16000	0.14225	0.12590	0.00000	0.28327	.	0
191230	Martin Luther King Jr. – Harbor Hospital	25	1	0.04000	0.05382	0.08319	0.00000	0.33278	.	0

Appendix Table Q-2: 30-Day Death Hospital Rankings

Table Q-2: 3-Year 30-Day Death Hospital Rankings (Any Index)										
OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	DT30_RANK	CLASS
184008	Banner Lassen Medical Center	24	6	0.25000	0.19677	0.14221	0.02370	0.28442	.	0
190661	Silver Lake Medical Center – Downtown Campus	23	0	0.00000	0.14011	0.00000	.	.	.	1
190552	Motion Picture and Television Hospital	21	4	0.19048	0.17405	0.12249	0.00000	0.27561	.	0
420483	Goleta Valley Cottage Hospital	17	0	0.00000	0.12279	0.00000	.	.	.	1
361458	Colorado River Medical Center	16	2	0.12500	0.12380	0.11302	0.00000	0.33906	.	0
361110	Bear Valley Community Hospital	15	0	0.00000	0.09254	0.00000	.	.	.	1
420522	Santa Ynez Valley Cottage Hospital	15	1	0.06667	0.15999	0.04664	0.00000	0.18656	.	0
270777	George L. Mee Memorial Hospital	14	4	0.28571	0.10081	0.31723	0.00000	0.71378	.	0
450936	Mayers Memorial Hospital	14	3	0.21429	0.10895	0.22016	0.00000	0.58709	.	0
320986	Plumas District Hospital	12	3	0.25000	0.19075	0.14670	0.00000	0.39120	.	0
105029	Fresno Heart and Surgical Hospital	11	2	0.18182	0.11634	0.17493	0.00000	0.52479	.	0
220733	John C. Fremont Healthcare District	11	2	0.18182	0.24939	0.08160	0.00000	0.24481	.	0
484044	Kaiser Foundation Hospital – Vacaville	11	3	0.27273	0.13781	0.22152	0.00000	0.59072	.	0
110889	Glenn Medical Center	8	0	0.00000	0.06111	0.00000	.	.	.	1
320859	Eastern Plumas Hospital – Portola Campus	8	3	0.37500	0.20183	0.20797	0.00000	0.55459	.	0
321016	Seneca Healthcare District	7	1	0.14286	0.17543	0.09115	0.00000	0.36460	.	0
551061	Tuolumne General Medical Facility	7	0	0.00000	0.10217	0.00000	.	.	.	1
150775	Good Samaritan Hospital – Bakersfield	6	2	0.33333	0.09623	0.38771	0.00000	1.16314	.	0
361266	Mountains Community Hospital	6	0	0.00000	0.04945	0.00000	.	.	.	1
100745	Kingsburg Medical Center	5	1	0.20000	0.12240	0.18290	0.00000	0.73161	.	0
160702	Corcoran District Hospital	5	0	0.00000	0.05878	0.00000	.	.	.	1
260011	Mammoth Hospital	5	0	0.00000	0.08155	0.00000	.	.	.	1
190230	Centinela Freeman Regional Medical Center – Memorial Campus	3	0	0.00000	0.12161	0.00000	.	.	.	1
250956	Modoc Medical Center	1	1	1.00000	0.14980	0.74722	0.00000	2.98890	.	.
301155	College Hospital Costa Mesa	1	0	0.00000	0.01307	0.00000	.	.	.	.

Appendix Table Q-3: 30-Day Readmission Hospital Rankings

3-Year Statewide 30-Day Readmission Average		
California		
N	Observed	Mean
96,276	12,926	0.1343

Table Q-3: 3-Year 30-Day Readmission Hospital Rankings (Any Index)

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
331288	Palo Verde Hospital	31	1	0.03226	0.11016	0.03932	0.00000	0.15726	1	0
196403	Kaiser Foundation Hospital – Downey	45	2	0.04444	0.14860	0.04016	0.00000	0.12047	2	1
491076	Sonoma Valley Hospital	116	5	0.04310	0.12655	0.04573	0.00915	0.10061	3	1
274043	Natividad Medical Center	67	3	0.04478	0.11626	0.05171	0.00000	0.13789	4	0
301337	Mission Hospital Laguna Beach	68	4	0.05882	0.13067	0.06044	0.00000	0.13598	5	0
491338	Palm Drive Hospital	48	3	0.06250	0.13244	0.06336	0.00000	0.16896	6	0
160787	Central Valley General Hospital	59	4	0.06780	0.13873	0.06561	0.00000	0.14763	7	0
281047	Queen of the Valley Hospital – Napa	255	19	0.07451	0.13357	0.07490	0.03942	0.11826	8	1
521041	Saint Elizabeth Community Hospital	202	14	0.06931	0.11557	0.08051	0.03451	0.13227	9	1
574010	Sutter Davis Hospital	91	8	0.08791	0.14510	0.08134	0.02034	0.15252	10	0
34002	Sutter Amador Hospital	114	8	0.07018	0.11496	0.08196	0.02049	0.15367	11	0
370689	Sharp Coronado Hospital and Healthcare Center	49	4	0.08163	0.12956	0.08459	0.00000	0.19033	12	0
420514	Santa Barbara Cottage Hospital	559	42	0.07513	0.11832	0.08525	0.05684	0.11773	13	1
301297	Placentia Linda Hospital	174	14	0.08046	0.12542	0.08613	0.03691	0.14150	14	0
391010	San Joaquin General Hospital	196	16	0.08163	0.12651	0.08664	0.04332	0.14078	15	0
491064	Santa Rosa Memorial Hospital – Montgomery	438	37	0.08447	0.12862	0.08818	0.05720	0.12393	16	1
430805	Kaiser Foundation Hospital – Santa Clara	118	10	0.08475	0.12815	0.08879	0.02664	0.15982	17	0
371394	Scripps Memorial Hospital – Encinitas	352	29	0.08239	0.12400	0.08920	0.05229	0.12919	18	1
291053	Tahoe Forest Hospital	30	2	0.06667	0.09772	0.09159	0.00000	0.27478	19	0
121051	Redwood Memorial Hospital	56	4	0.07143	0.10433	0.09192	0.00000	0.20682	20	0
331216	John F. Kennedy Memorial Hospital	181	16	0.08840	0.12692	0.09351	0.04675	0.15195	21	0
560508	Saint John's Pleasant Valley Hospital	177	17	0.09605	0.13560	0.09510	0.04475	0.15104	22	0

Appendix Table Q-3: 30-Day Readmission Hospital Rankings

Table Q-3: 3-Year 30-Day Readmission Hospital Rankings (Any Index)

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
410782	San Mateo Medical Center	66	5	0.07576	0.10628	0.09570	0.01914	0.21055	23	0
410817	Seton Medical Center	338	34	0.10059	0.14040	0.09620	0.05941	0.13581	24	0
554011	Sonora Regional Medical Center – Greenley	160	15	0.09375	0.13065	0.09634	0.04496	0.16057	25	0
490964	Healdsburg District Hospital	48	4	0.08333	0.11572	0.09669	0.00000	0.21755	26	0
490919	Sutter Medical Center of Santa Rosa	101	9	0.08911	0.12253	0.09764	0.03255	0.18443	27	0
410891	Sequoia Hospital	157	15	0.09554	0.13134	0.09767	0.04558	0.16278	28	0
90793	Barton Memorial Hospital	63	5	0.07937	0.10834	0.09835	0.01967	0.21638	29	0
334025	Kaiser Foundation Hospital – Riverside	482	50	0.10373	0.14066	0.09901	0.06733	0.13268	30	1
171049	Saint Helena Hospital – Clearlake	48	4	0.08333	0.11089	0.10090	0.00000	0.22702	31	0
50932	Mark Twain Saint Joseph's Hospital	74	6	0.08108	0.10781	0.10098	0.01683	0.20195	32	0
340947	Mercy General Hospital	492	52	0.10569	0.14052	0.10098	0.06991	0.13400	33	1
370759	Paradise Valley Hospital	285	34	0.11930	0.15758	0.10164	0.06278	0.14349	34	0
10937	Alta Bates Summit Medical Center – Summit Campus – Hawthorne	649	75	0.11556	0.15252	0.10173	0.07596	0.13021	35	1
190500	Marina Del Rey Hospital	169	19	0.11243	0.14822	0.10184	0.05360	0.16080	36	0
440755	Dominican Hospital – Santa Cruz/Soquel	452	43	0.09513	0.12464	0.10247	0.06911	0.14060	37	0
400466	Arroyo Grande Community Hospital	146	13	0.08904	0.11616	0.10291	0.03958	0.17416	38	0
190066	Bellflower Medical Center	59	7	0.11864	0.15474	0.10294	0.02941	0.20588	39	0
380857	Kaiser Foundation Hospital – San Francisco	396	41	0.10354	0.13490	0.10304	0.06786	0.14325	40	0
190762	Saint Vincent Medical Center	274	29	0.10584	0.13633	0.10424	0.06110	0.15096	41	0
130699	El Centro Regional Medical Center	220	21	0.09545	0.12226	0.10483	0.05491	0.15974	42	0
90933	Marshall Medical Center	221	23	0.10407	0.13307	0.10501	0.05935	0.15979	43	0
190631	Presbyterian Intercommunity Hospital	595	64	0.10756	0.13697	0.10543	0.07578	0.13673	44	0
491001	Petaluma Valley Hospital	148	17	0.11486	0.14524	0.10618	0.04997	0.16864	45	0
480989	Kaiser Foundation Hospital – Rehabilitation Center Vallejo	670	76	0.11343	0.14317	0.10638	0.07838	0.13577	46	0
430905	Stanford Hospital	523	48	0.09178	0.11578	0.10643	0.07317	0.14412	47	0
510882	Fremont Medical Center	103	11	0.10680	0.13402	0.10699	0.03890	0.18479	48	0

Appendix Table Q-3: 30-Day Readmission Hospital Rankings

Table Q-3: 3-Year 30-Day Readmission Hospital Rankings (Any Index)

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
301379	West Anaheim Medical Center	269	31	0.11524	0.14456	0.10703	0.06560	0.15537	49	0
311000	Sutter Roseville Medical Center	513	58	0.11306	0.13971	0.10865	0.07681	0.14237	50	0
344029	Mercy Hospital – Folsom	199	20	0.10050	0.12410	0.10873	0.05436	0.16853	51	0
74097	Kaiser Foundation Hospital – Antioch	167	19	0.11377	0.14001	0.10910	0.05742	0.17226	52	0
340913	Kaiser Foundation Hospital – Sacramento	1011	107	0.10584	0.12996	0.10934	0.08584	0.13488	53	0
211006	Marin General Hospital	341	39	0.11437	0.13921	0.11031	0.07071	0.15273	54	0
190413	Citrus Valley Medical Center – Inter Community Campus	345	40	0.11594	0.14069	0.11064	0.07192	0.15213	55	0
390923	Lodi Memorial Hospital	311	33	0.10611	0.12831	0.11103	0.06729	0.15814	56	0
361323	Community Hospital of San Bernardino	206	24	0.11650	0.14009	0.11166	0.06048	0.16749	57	0
13619	San Leandro Hospital	246	31	0.12602	0.15116	0.11193	0.06860	0.16248	58	0
70988	John Muir Medical Center – Walnut Creek Campus	519	63	0.12139	0.14520	0.11224	0.08017	0.14610	59	0
210992	Kaiser Foundation Hospital – San Rafael	269	28	0.10409	0.12440	0.11234	0.06419	0.16450	60	0
394009	Kaiser Foundation Hospital – Manteca	175	20	0.11429	0.13656	0.11236	0.05618	0.17416	61	0
150788	San Joaquin Community Hospital	556	63	0.11331	0.13473	0.11291	0.08065	0.14696	62	0
382715	Chinese Hospital	172	17	0.09884	0.11718	0.11325	0.05329	0.17986	63	0
340951	Methodist Hospital of Sacramento	372	43	0.11559	0.13643	0.11375	0.07672	0.15608	64	0
434153	Kaiser Foundation Hospital – Santa Clara	446	53	0.11883	0.13981	0.11412	0.07967	0.15287	65	0
301248	Los Alamitos Medical Center	474	54	0.11392	0.13324	0.11479	0.08078	0.15306	66	0
580996	Rideout Memorial Hospital	299	33	0.11037	0.12875	0.11509	0.06975	0.16392	67	0
540816	Tulare Regional Medical Center	189	20	0.10582	0.12268	0.11581	0.05790	0.17950	68	0
500852	Doctors Medical Center	405	49	0.12099	0.14017	0.11588	0.07804	0.15609	69	0
361246	Loma Linda University Medical Center	496	57	0.11492	0.13306	0.11595	0.08137	0.15257	70	0
370780	Tri-City Medical Center – Oceanside	713	79	0.11080	0.12812	0.11611	0.08671	0.14697	71	0
331312	Riverside Community Hospital	530	66	0.12453	0.14323	0.11673	0.08489	0.15210	72	0
190200	San Gabriel Valley Medical Center	350	46	0.13143	0.15115	0.11674	0.07867	0.15734	73	0
190256	East Los Angeles Doctors Hospital	115	16	0.13913	0.15992	0.11681	0.05840	0.18981	74	0

Appendix Table Q-3: 30-Day Readmission Hospital Rankings

Table Q-3: 3-Year 30-Day Readmission Hospital Rankings (Any Index)

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
444013	Watsonville Community Hospital	149	16	0.10738	0.12324	0.11699	0.05849	0.19010	75	0
190568	Northridge Hospital Medical Center	401	48	0.11970	0.13736	0.11700	0.08044	0.15844	76	0
500867	Emanuel Medical Center, Inc.	308	35	0.11364	0.12980	0.11754	0.07388	0.16456	77	0
431506	Kaiser Foundation Hospital – San Jose	476	60	0.12605	0.14378	0.11770	0.08436	0.15498	78	0
571086	Woodland Memorial Hospital	188	19	0.10106	0.11446	0.11855	0.06239	0.18718	79	0
100899	Saint Agnes Medical Center	973	126	0.12950	0.14625	0.11888	0.09529	0.14435	80	0
380965	Saint Mary's Medical Center, San Francisco	184	23	0.12500	0.14111	0.11893	0.06722	0.18098	81	0
380929	California Pacific Medical Center – Pacific Campus	607	73	0.12026	0.13570	0.11899	0.08802	0.15322	82	0
331152	Corona Regional Medical Center – Main	281	34	0.12100	0.13600	0.11945	0.07378	0.16863	83	0
281078	Saint Helena Hospital	84	10	0.11905	0.13356	0.11967	0.03590	0.21541	84	0
301132	Kaiser Foundation Hospital – Anaheim	516	62	0.12016	0.13457	0.11988	0.08508	0.15662	85	0
191450	Kaiser Foundation Hospital – Woodland Hills	463	63	0.13607	0.15218	0.12005	0.08575	0.15625	86	0
301325	Saddleback Memorial Medical Center – San Clemente	100	11	0.11000	0.12246	0.12060	0.04385	0.20830	87	0
361308	Redlands Community Hospital	320	42	0.13125	0.14594	0.12075	0.08050	0.16675	88	0
410852	Peninsula Medical Center	528	66	0.12500	0.13854	0.12114	0.08810	0.15785	89	0
481094	Sutter Solano Medical Center	231	31	0.13420	0.14813	0.12164	0.07455	0.17657	90	0
291023	Sierra Nevada Memorial Hospital	247	27	0.10931	0.12062	0.12167	0.07210	0.18026	91	0
540734	Kaweah Delta Medical Center	578	70	0.12111	0.13363	0.12168	0.08865	0.15645	92	0
190434	Kaiser Foundation Hospital – West Los Angeles	559	74	0.13238	0.14514	0.12245	0.09101	0.15720	93	0
70924	Contra Costa Regional Medical Center	127	14	0.11024	0.12067	0.12266	0.05257	0.20151	94	0
190307	Pacific Alliance Medical Center, Inc.	181	25	0.13812	0.15101	0.12280	0.06877	0.18175	95	0
301175	Fountain Valley Regional Hospital and Medical Center – Euclid	477	60	0.12579	0.13694	0.12333	0.08838	0.16238	96	0
400480	French Hospital Medical Center	164	17	0.10366	0.11279	0.12339	0.05806	0.19597	97	0
301317	Saddleback Memorial Medical Center	605	75	0.12397	0.13464	0.12361	0.09230	0.15823	98	0
190754	Saint Francis Medical Center	448	63	0.14063	0.15241	0.12388	0.08848	0.16123	99	0
370875	Sharp Chula Vista Medical Center	588	78	0.13265	0.14363	0.12400	0.09220	0.15738	100	0

Appendix Table Q-3: 30-Day Readmission Hospital Rankings

Table Q-3: 3-Year 30-Day Readmission Hospital Rankings (Any Index)

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
190053	Saint Mary Medical Center	334	47	0.14072	0.15223	0.12410	0.08450	0.16899	101	0
190400	Huntington Memorial Hospital	680	87	0.12794	0.13840	0.12411	0.09416	0.15550	102	0
190298	Foothill Presbyterian Hospital – Johnston Memorial	264	31	0.11742	0.12656	0.12457	0.07635	0.18083	103	0
14050	Valleycare Medical Center	132	16	0.12121	0.13064	0.12457	0.06229	0.20243	104	0
420493	Marian Medical Center	388	49	0.12629	0.13581	0.12485	0.08408	0.16817	105	0
190758	Providence Saint Joseph Medical Center	627	76	0.12121	0.12955	0.12562	0.09256	0.16033	106	0
410804	Kaiser Foundation Hospital – Redwood City	325	40	0.12308	0.13142	0.12574	0.08173	0.17289	107	0
500967	Oak Valley District Hospital	86	10	0.11628	0.12384	0.12606	0.03782	0.22691	108	0
370694	Sharp Memorial Hospital	634	79	0.12461	0.13242	0.12634	0.09436	0.15993	109	0
370705	Fallbrook Hospital District	55	6	0.10909	0.11556	0.12674	0.02112	0.25349	110	0
190883	Whittier Hospital Medical Center	344	46	0.13372	0.14163	0.12676	0.08542	0.17085	111	0
190547	Monterey Park Hospital	116	17	0.14655	0.15502	0.12693	0.05973	0.20159	112	0
301188	Western Medical Center – Anaheim	44	5	0.11364	0.12019	0.12694	0.02539	0.27927	113	0
380964	California Pacific Medical Center – St. Luke's Campus	100	14	0.14000	0.14798	0.12702	0.05444	0.20867	114	0
104062	Kaiser Foundation Hospital – Fresno	290	41	0.14138	0.14918	0.12724	0.08379	0.17690	115	0
301340	Saint Joseph Hospital – Orange	571	71	0.12434	0.13085	0.12758	0.09344	0.16352	116	0
370730	Kaiser Foundation Hospital – San Diego	918	120	0.13072	0.13729	0.12783	0.10120	0.15553	117	0
70904	Doctors Medical Center – San Pablo	340	48	0.14118	0.14724	0.12873	0.08850	0.17432	118	0
100717	Community Regional Medical Center – Fresno	860	111	0.12907	0.13450	0.12884	0.10098	0.15785	119	0
190818	Verdugo Hills Hospital	230	29	0.12609	0.13117	0.12905	0.07565	0.18690	120	0
270744	Community Hospital Monterey Peninsula	406	45	0.11084	0.11524	0.12913	0.08608	0.17504	121	0
430779	Good Samaritan Hospital – San Jose	513	63	0.12281	0.12761	0.12920	0.09229	0.16817	122	0
301098	AHMC Anaheim Regional Medical Center	462	58	0.12554	0.13038	0.12928	0.09139	0.16940	123	0
341052	Sutter Memorial Hospital	156	21	0.13462	0.13883	0.13019	0.06819	0.19838	124	0
364144	Desert Valley Hospital	369	52	0.14092	0.14523	0.13028	0.09019	0.17287	125	0
230949	Frank R. Howard Memorial Hospital	57	6	0.10526	0.10827	0.13053	0.02176	0.26106	126	0

Appendix Table Q-3: 30-Day Readmission Hospital Rankings

Table Q-3: 3-Year 30-Day Readmission Hospital Rankings (Any Index)

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
361223	Kaiser Foundation Hospital – Fontana	820	113	0.13780	0.14160	0.13066	0.10291	0.15957	127	0
310791	Sutter Auburn Faith Hospital	214	26	0.12150	0.12478	0.13072	0.07542	0.19608	128	0
361318	San Antonio Community Hospital	552	71	0.12862	0.13172	0.13110	0.09602	0.16803	129	0
390846	Dameron Hospital	264	35	0.13258	0.13563	0.13124	0.08249	0.18373	130	0
331164	Desert Regional Medical Center	568	71	0.12500	0.12722	0.13191	0.09661	0.16907	131	0
190949	Henry Mayo Newhall Memorial Hospital	353	48	0.13598	0.13840	0.13191	0.09069	0.17863	132	0
420491	Lompoc Valley Medical Center	138	16	0.11594	0.11774	0.13221	0.06610	0.21484	133	0
150722	Bakersfield Memorial Hospital	507	64	0.12623	0.12814	0.13226	0.09506	0.17153	134	0
270875	Salinas Valley Memorial Hospital	355	43	0.12113	0.12283	0.13240	0.08929	0.18167	135	0
190878	White Memorial Medical Center	356	56	0.15730	0.15915	0.13270	0.09242	0.17535	136	0
430705	Regional Medical of San Jose	533	77	0.14447	0.14607	0.13278	0.09829	0.16899	137	0
450949	Mercy Medical Center – Redding	466	50	0.10730	0.10839	0.13291	0.09038	0.17810	138	0
190630	Pomona Valley Hospital Medical Center	575	74	0.12870	0.12941	0.13352	0.09924	0.17141	139	0
301342	Saint Jude Medical Center	697	90	0.12912	0.12968	0.13369	0.10249	0.16785	140	0
361339	Saint Bernadine Medical Center	453	64	0.14128	0.14155	0.13400	0.09631	0.17378	141	0
121002	Mad River Community Hospital	95	7	0.07368	0.07377	0.13411	0.03832	0.26821	142	0
190352	Greater El Monte Community Hospital	113	19	0.16814	0.16822	0.13419	0.07063	0.21188	143	0
301262	Mission Hospital Regional Medical Center	554	70	0.12635	0.12623	0.13439	0.09791	0.17279	144	0
341006	UC Davis Medical Center	510	62	0.12157	0.12121	0.13466	0.09556	0.17592	145	0
391042	Saint Joseph's Medical Center of Stockton	488	65	0.13320	0.13231	0.13516	0.09773	0.17467	146	0
400548	Twin Cities Community Hospital	301	32	0.10631	0.10556	0.13521	0.08451	0.19437	147	0
71018	John Muir Medical Center – Concord Campus	414	65	0.15700	0.15590	0.13522	0.09777	0.17474	148	0
400524	Sierra Vista Regional Medical Center	211	22	0.10427	0.10329	0.13553	0.07393	0.20946	149	0
362041	Hi-Desert Medical Center	186	24	0.12903	0.12763	0.13573	0.07352	0.20360	150	0
410806	Kaiser Foundation Hospital – South San Francisco	311	43	0.13826	0.13671	0.13578	0.09157	0.18631	151	0
190315	Garfield Medical Center	430	65	0.15116	0.14946	0.13579	0.09819	0.17549	152	0

Appendix Table Q-3: 30-Day Readmission Hospital Rankings

Table Q-3: 3-Year 30-Day Readmission Hospital Rankings (Any Index)

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
334048	Kaiser Foundation Hospital – Moreno Valley	115	16	0.13913	0.13752	0.13583	0.06791	0.22072	153	0
380960	Saint Francis Memorial Hospital	227	32	0.14097	0.13934	0.13583	0.08489	0.19526	154	0
70990	Kaiser Foundation Hospital – Walnut Creek	508	72	0.14173	0.14008	0.13584	0.10000	0.17358	155	0
370755	Palomar Medical Center	884	116	0.13122	0.12965	0.13589	0.10777	0.16634	156	0
331326	San Gorgonio Memorial Hospital	218	32	0.14679	0.14487	0.13604	0.08502	0.19555	157	0
370658	Scripps Mercy Hospital – Chula Vista	285	41	0.14386	0.14133	0.13666	0.09000	0.19000	158	0
301205	Hoag Memorial Hospital Presbyterian	968	127	0.13120	0.12889	0.13667	0.10976	0.16572	159	0
191227	Los Angeles County/Harbor – UCLA Medical Center	375	44	0.11733	0.11517	0.13678	0.09015	0.18652	160	0
430763	El Camino Hospital	540	70	0.12963	0.12722	0.13681	0.09967	0.17589	161	0
334487	Riverside County Regional Medical Center	300	37	0.12333	0.12103	0.13681	0.08874	0.19227	162	0
190017	Alhambra Hospital	138	22	0.15942	0.15616	0.13706	0.07476	0.21182	163	0
10856	Kaiser Foundation Hospital – Oakland Campus	501	69	0.13772	0.13489	0.13708	0.09933	0.17681	164	0
342344	Kaiser Foundation Hospital – South Sacramento	518	74	0.14286	0.13971	0.13728	0.10203	0.17624	165	0
334018	Menifee Valley Medical Center	228	30	0.13158	0.12865	0.13731	0.08239	0.19682	166	0
560501	Ojai Valley Community Hospital	51	6	0.11765	0.11501	0.13734	0.02289	0.27467	167	0
40962	Enloe Medical Center – Esplanade Campus	439	50	0.11390	0.11122	0.13749	0.09349	0.18423	168	0
231396	Ukiah Valley Medical Center	116	13	0.11207	0.10926	0.13771	0.05296	0.23304	169	0
190636	Citrus Valley Medical Center – Queen of the Valley Campus	400	56	0.14000	0.13611	0.13810	0.09618	0.18249	170	0
434138	Saint Louise Regional Hospital	78	11	0.14103	0.13669	0.13851	0.05037	0.23925	171	0
191228	Los Angeles County/University of Southern California Medical Center	376	48	0.12766	0.12371	0.13855	0.09525	0.18762	172	0
190159	Tri-City Regional Medical Center – Hawaiian Gardens	55	11	0.20000	0.19355	0.13873	0.05045	0.23963	173	0
370771	Scripps Memorial Hospital – La Jolla	462	63	0.13636	0.13177	0.13895	0.09925	0.18085	174	0
301283	Garden Grove Hospital and Medical Center	217	32	0.14747	0.14224	0.13920	0.08700	0.20010	175	0
190243	Downey Regional Medical Center	477	71	0.14885	0.14313	0.13962	0.10226	0.17895	176	0
392287	Doctors Hospital of Manteca	127	17	0.13386	0.12846	0.13990	0.06584	0.22220	177	0
450940	Shasta Regional Medical Center	341	38	0.11144	0.10673	0.14018	0.08854	0.19552	178	0

Appendix Table Q-3: 30-Day Readmission Hospital Rankings

Table Q-3: 3-Year 30-Day Readmission Hospital Rankings (Any Index)

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
190524	Mission Community Hospital – Panorama Campus	100	15	0.15000	0.14328	0.14056	0.06559	0.23426	179	0
350784	Hazel Hawkins Memorial Hospital	64	8	0.12500	0.11931	0.14067	0.03517	0.26375	180	0
40875	Feather River Hospital	196	27	0.13776	0.13115	0.14103	0.08357	0.20893	181	0
190125	California Hospital Medical Center – Los Angeles	361	53	0.14681	0.13959	0.14121	0.09858	0.18917	182	0
370714	Grossmont Hospital	1128	154	0.13652	0.12974	0.14128	0.11559	0.16880	183	0
391056	Sutter Tracy Community Hospital	150	22	0.14667	0.13938	0.14128	0.07706	0.21834	184	0
331168	Eisenhower Medical Center	985	124	0.12589	0.11958	0.14134	0.11284	0.17211	185	0
10846	Alameda County Medical Center – Highland Campus	285	36	0.12632	0.11997	0.14136	0.09032	0.20026	186	0
494019	Kaiser Foundation Hospital – Santa Rosa	325	44	0.13538	0.12826	0.14172	0.09340	0.19325	187	0
190470	Providence Little Company of Mary Medical Center – Torrance	549	75	0.13661	0.12862	0.14261	0.10648	0.18254	188	0
190385	Providence Holy Cross Medical Center	457	66	0.14442	0.13589	0.14269	0.10377	0.18593	189	0
10987	Washington Hospital – Fremont	563	83	0.14742	0.13846	0.14295	0.10850	0.18084	190	0
10739	Alta Bates Summit Medical Center – Alta Bates Campus	520	74	0.14231	0.13363	0.14298	0.10627	0.18355	191	0
190328	East Valley Hospital Medical Center	54	8	0.14815	0.13905	0.14304	0.03576	0.26820	192	0
370977	Pomerado Hospital	285	38	0.13333	0.12513	0.14306	0.09036	0.19954	193	0
10805	Eden Medical Center	277	42	0.15162	0.14205	0.14331	0.09554	0.19790	194	0
150706	Delano Regional Medical Center	81	13	0.16049	0.15019	0.14347	0.05518	0.24279	195	0
370744	Scripps Mercy Hospital	670	99	0.14776	0.13809	0.14366	0.11173	0.17848	196	0
370782	UC San Diego Medical Center	441	60	0.13605	0.12667	0.14420	0.10335	0.18987	197	0
430837	O'Connor Hospital – San Jose	329	45	0.13678	0.12716	0.14442	0.09628	0.19577	198	0
74093	Kaiser Foundation Hospital – Richmond Campus	135	21	0.15556	0.14460	0.14443	0.07566	0.22009	199	0
190555	Cedars Sinai Medical Center	825	126	0.15273	0.14152	0.14490	0.11615	0.17595	200	0
190522	Glendale Memorial Hospital and Medical Center	408	62	0.15196	0.14076	0.14494	0.10286	0.18936	201	0
190422	Torrance Memorial Medical Center	668	95	0.14222	0.13102	0.14573	0.11198	0.18101	202	0
10983	Valley Memorial Hospital – Livermore	74	10	0.13514	0.12424	0.14603	0.04381	0.26286	203	0
361144	Chino Valley Medical Center	331	54	0.16314	0.14998	0.14604	0.10277	0.19472	204	0

Appendix Table Q-3: 30-Day Readmission Hospital Rankings

Table Q-3: 3-Year 30-Day Readmission Hospital Rankings (Any Index)

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
341051	Sutter General Hospital	473	70	0.14799	0.13603	0.14607	0.10642	0.18780	205	0
190673	San Dimas Community Hospital	172	24	0.13953	0.12816	0.14618	0.07918	0.21927	206	0
560529	Saint John's Regional Medical Center	417	62	0.14868	0.13605	0.14672	0.10412	0.19168	207	0
430883	Santa Clara Valley Medical Center	460	60	0.13043	0.11911	0.14703	0.10537	0.19358	208	0
100005	Clovis Community Medical Center	163	22	0.13497	0.12322	0.14707	0.08022	0.22728	209	0
301258	Coastal Communities Hospital	50	8	0.16000	0.14605	0.14708	0.03677	0.27577	210	0
540798	Sierra View District Hospital	344	49	0.14244	0.13003	0.14708	0.09905	0.19811	211	0
201281	Madera Community Hospital	106	16	0.15094	0.13752	0.14737	0.07368	0.23947	212	0
500939	Memorial Hospital Medical Center – Modesto	691	104	0.15051	0.13705	0.14745	0.11484	0.18147	213	0
380939	San Francisco General Hospital	363	48	0.13223	0.12037	0.14749	0.10140	0.19973	214	0
190525	Long Beach Memorial Medical Center	878	132	0.15034	0.13682	0.14752	0.11847	0.17770	215	0
190081	Beverly Hospital	389	68	0.17481	0.15904	0.14757	0.10850	0.19097	216	0
130760	Pioneers Memorial Hospital	138	18	0.13043	0.11862	0.14763	0.07381	0.23784	217	0
430743	El Camino Hospital Los Gatos	38	5	0.13158	0.11920	0.14821	0.02964	0.32605	218	0
190148	Centinela Hospital Medical Center	1050	183	0.17429	0.15767	0.14841	0.12327	0.17436	219	0
301209	Huntington Beach Hospital	143	22	0.15385	0.13915	0.14844	0.08097	0.22941	220	0
370652	Alvarado Hospital	275	43	0.15636	0.14093	0.14896	0.10046	0.20439	221	0
340950	Mercy San Juan Hospital	760	110	0.14474	0.13045	0.14896	0.11646	0.18282	222	0
314024	Kaiser Foundation Hospital – Roseville	198	28	0.14141	0.12745	0.14897	0.08512	0.21813	223	0
70934	Sutter Delta Medical Center	309	57	0.18447	0.16619	0.14902	0.10458	0.19608	224	0
190587	Pacific Hospital of Long Beach	63	11	0.17460	0.15713	0.14919	0.05425	0.25769	225	0
240942	Mercy Medical Center – Merced	351	57	0.16239	0.14597	0.14937	0.10482	0.19653	226	0
361370	Victor Valley Community Hospital	145	21	0.14483	0.13000	0.14958	0.07835	0.22793	227	0
190529	Methodist Hospital of Southern California	631	99	0.15689	0.14073	0.14968	0.11642	0.18597	228	0
190392	Good Samaritan Hospital – Los Angeles	364	60	0.16484	0.14746	0.15008	0.10756	0.19761	229	0
474007	Fairchild Medical Center	77	7	0.09091	0.08124	0.15023	0.04292	0.30047	230	0

Appendix Table Q-3: 30-Day Readmission Hospital Rankings

Table Q-3: 3-Year 30-Day Readmission Hospital Rankings (Any Index)

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
150761	Mercy Hospital – Bakersfield	443	63	0.14221	0.12695	0.15040	0.10743	0.19576	231	0
560473	Community Memorial Hospital – San Buenaventura	484	67	0.13843	0.12318	0.15088	0.11035	0.19592	232	0
10967	Saint Rose Hospital	227	35	0.15419	0.13637	0.15180	0.09542	0.21252	233	0
560492	Los Robles Hospital and Medical Center	385	55	0.14286	0.12630	0.15187	0.10769	0.20157	234	0
171395	Sutter Lakeside Hospital	124	18	0.14516	0.12824	0.15198	0.07599	0.24486	235	0
150737	Kern Valley Healthcare District	38	5	0.13158	0.11623	0.15198	0.03040	0.33437	236	0
190475	Community Hospital of Long Beach	142	24	0.16901	0.14918	0.15211	0.08239	0.22816	237	0
190110	Brotman Medical Center	219	36	0.16438	0.14497	0.15224	0.09726	0.21567	238	0
191231	Los Angeles County/Olive View – UCLA Medical Center	229	29	0.12664	0.11159	0.15237	0.08932	0.22067	239	0
190034	Antelope Valley Hospital	616	97	0.15747	0.13818	0.15300	0.11830	0.19086	240	0
190432	Kaiser Foundation Hospital – Panorama City	492	76	0.15447	0.13497	0.15366	0.11322	0.19612	241	0
301234	La Palma Intercommunity Hospital	184	26	0.14130	0.12335	0.15380	0.08873	0.23071	242	0
300225	Orange Coast Memorial Medical Center	387	57	0.14729	0.12765	0.15491	0.10871	0.20383	243	0
196035	Kaiser Foundation Hospital – Baldwin Park	530	88	0.16604	0.14362	0.15522	0.11818	0.19579	244	0
190796	Ronald Reagan UCLA Medical Center	454	66	0.14537	0.12557	0.15543	0.11304	0.20254	245	0
190430	Kaiser Foundation Hospital – Bellflower	547	90	0.16453	0.14184	0.15574	0.11940	0.19554	246	0
10735	Alameda Hospital	107	17	0.15888	0.13680	0.15593	0.07338	0.24766	247	0
190240	Lakewood Regional Medical Center	391	64	0.16368	0.14090	0.15597	0.11210	0.20227	248	0
190680	Providence Little Company of Mary Medical Center – San Pedro	216	32	0.14815	0.12743	0.15608	0.09755	0.22437	249	0
560525	Simi Valley Hospital and Healthcare Services – Sycamore	194	32	0.16495	0.14167	0.15632	0.09770	0.22471	250	0
301279	UC Irvine Medical Center	313	50	0.15974	0.13667	0.15693	0.10671	0.21028	251	0
331194	Hemet Valley Medical Center	538	86	0.15985	0.13644	0.15730	0.11889	0.19754	252	0
194219	Keck Hospital of University of Southern California	34	5	0.14706	0.12548	0.15735	0.03147	0.34616	253	0
334068	Southwest Healthcare System – Murrieta	595	91	0.15294	0.12997	0.15799	0.12153	0.19792	254	0
190382	Hollywood Presbyterian Medical Center	303	53	0.17492	0.14836	0.15829	0.11050	0.21205	255	0
190517	Providence Tarzana Medical Center	276	43	0.15580	0.13204	0.15842	0.10684	0.21736	256	0

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OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
190429	Kaiser Foundation Hospital – Sunset	473	73	0.15433	0.13063	0.15863	0.11734	0.20426	257	0
160725	Hanford Community Medical Center	200	32	0.16000	0.13537	0.15869	0.09918	0.22812	258	0
10858	Kaiser Foundation Hospital – Hayward	324	56	0.17284	0.14594	0.15901	0.11074	0.21012	259	0
14132	Kaiser Foundation Hospital – Fremont	139	24	0.17266	0.14481	0.16008	0.08671	0.24013	260	0
190756	Saint John's Health Center	369	61	0.16531	0.13860	0.16013	0.11551	0.21001	261	0
84001	Sutter Coast Hospital	131	13	0.09924	0.08209	0.16231	0.06243	0.27468	262	0
190708	Sherman Oaks Hospital	182	30	0.16484	0.13567	0.16312	0.09787	0.23381	263	0
331293	Parkview Community Hospital Medical Center	219	38	0.17352	0.14259	0.16337	0.10318	0.22786	264	0
190534	Olympia Medical Center	281	53	0.18861	0.15418	0.16425	0.11466	0.22003	265	0
364231	Arrowhead Regional Medical Center	381	53	0.13911	0.11250	0.16601	0.11590	0.22240	266	0
190859	West Hills Hospital and Medical Center	261	40	0.15326	0.12318	0.16704	0.10858	0.22968	267	0
190431	Kaiser Foundation Hospital – Harbor City	488	90	0.18443	0.14806	0.16724	0.12822	0.20998	268	0
190455	Lancaster Community Hospital	231	41	0.17749	0.14214	0.16765	0.11040	0.23307	269	0
381154	UC San Francisco Medical Center	444	71	0.15991	0.12714	0.16886	0.12367	0.21643	270	0
301566	Western Medical Center – Santa Ana	256	45	0.17578	0.13951	0.16916	0.11277	0.22931	271	0
304045	Hoag Hospital Irvine	145	22	0.15172	0.12031	0.16932	0.09236	0.26168	272	0
121080	Saint Joseph Hospital – Eureka	242	29	0.11983	0.09491	0.16952	0.09938	0.24552	273	0
190687	Santa Monica – UCLA Medical Center and Orthopedic Hospital	344	57	0.16570	0.13008	0.17103	0.12002	0.22504	274	0
190323	Glendale Adventist Medical Center – Wilson Terrace	458	85	0.18559	0.14530	0.17149	0.12912	0.21587	275	0
154101	Bakersfield Heart Hospital	126	22	0.17460	0.13645	0.17180	0.09371	0.26551	276	0
190280	Encino Hospital Medical Center	84	14	0.16667	0.13004	0.17208	0.07375	0.28270	277	0
361343	Saint Mary Regional Medical Center	572	92	0.16084	0.12528	0.17237	0.13115	0.21546	278	0
60870	Colusa Regional Medical Center	30	4	0.13333	0.10284	0.17408	0.00000	0.39167	279	0
100797	Sierra Kings District Hospital	32	5	0.15625	0.12008	0.17471	0.03494	0.38436	280	0
190812	Valley Presbyterian Hospital	238	41	0.17227	0.13163	0.17572	0.11572	0.24429	281	0
190570	Norwalk Community Hospital	107	23	0.21495	0.16374	0.17625	0.09962	0.26821	282	0

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OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
190155	Century City Doctors Hospital	37	7	0.18919	0.14275	0.17793	0.05084	0.35586	283	0
560481	Ventura County Medical Center	216	36	0.16667	0.12555	0.17822	0.11386	0.25248	284	0
150736	Kern Medical Center	122	19	0.15574	0.11655	0.17940	0.09442	0.28327	285	0
150782	Ridgecrest Regional Hospital	127	19	0.14961	0.11019	0.18228	0.09594	0.28781	286	0
190197	Community and Mission Hospital of Huntington Park – Slauson	47	8	0.17021	0.12522	0.18250	0.04563	0.34219	287	0
190521	Memorial Hospital of Gardena	225	46	0.20444	0.14942	0.18370	0.12380	0.24760	288	0
481357	North Bay Medical Center	143	27	0.18881	0.13735	0.18456	0.10937	0.27342	289	0
40937	Oroville Hospital	256	48	0.18750	0.13529	0.18607	0.12792	0.25197	290	0
74017	San Ramon Regional Medical Center	129	22	0.17054	0.12291	0.18629	0.10161	0.28791	291	0
301097	Anaheim General Hospital	32	6	0.18750	0.12767	0.19718	0.03286	0.39437	292	0
361105	Barstow Community Hospital	176	30	0.17045	0.11598	0.19732	0.11839	0.28282	293	0
484001	North Bay VacaValley Hospital	119	27	0.22689	0.15415	0.19762	0.11711	0.29277	294	0
371256	Scripps Green Hospital	262	47	0.17939	0.12107	0.19894	0.13545	0.27090	295	-1
190198	Los Angeles Community Hospital	190	49	0.25789	0.17388	0.19913	0.13411	0.26822	296	0
190784	Temple Community Hospital	82	19	0.23171	0.14706	0.21154	0.11134	0.33401	297	0
190696	Pacifica Hospital of the Valley	96	20	0.20833	0.13217	0.21163	0.10582	0.32803	298	0
190766	Coast Plaza Doctors Hospital	82	22	0.26829	0.16702	0.21567	0.11764	0.33331	299	0
190854	Los Angeles Metropolitan Medical Center	62	13	0.20968	0.13012	0.21635	0.08321	0.36613	300	0
231013	Mendocino Coast District Hospital	57	10	0.17544	0.10720	0.21973	0.06592	0.39552	301	0
361166	Montclair Hospital Medical Center	109	27	0.24771	0.14876	0.22356	0.13248	0.33121	302	0
301140	Chapman Medical Center	36	7	0.19444	0.11523	0.22655	0.06473	0.45310	303	0
190380	Hollywood Community Hospital	39	10	0.25641	0.15170	0.22693	0.06808	0.40847	304	0
214034	Novato Community Hospital	55	12	0.21818	0.12285	0.23845	0.09935	0.41729	305	0
470871	Mercy Medical Center Mt. Shasta	36	5	0.13889	0.07309	0.25511	0.05102	0.56125	306	0
240924	Memorial Hospital Los Banos	58	14	0.24138	0.12260	0.26433	0.11329	0.43426	307	0
40802	Biggs Gridley Memorial Hospital	33	7	0.21212	0.10734	0.26532	0.07581	0.53065	308	0

Appendix Table Q-3: 30-Day Readmission Hospital Rankings

Table Q-3: 3-Year 30-Day Readmission Hospital Rankings (Any Index)

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
141273	Northern Inyo Hospital	29	1	0.03448	0.10623	0.04358	0.00000	0.17433	.	0
531059	Trinity Hospital	26	2	0.07692	0.09681	0.10668	0.00000	0.32004	.	0
191230	Martin Luther King Jr. – Harbor Hospital	25	3	0.12000	0.13726	0.11737	0.00000	0.31299	.	0
100822	University Medical Center	24	3	0.12500	0.12687	0.13228	0.00000	0.35275	.	0
190661	Silver Lake Medical Center – Downtown Campus	23	6	0.26087	0.19244	0.18200	0.03033	0.36400	.	0
100697	Coalinga Regional Medical Center	22	2	0.09091	0.10654	0.11456	0.00000	0.34369	.	0
184008	Banner Lassen Medical Center	21	0	0.00000	0.10757	0.00000	.	.	.	1
190552	Motion Picture and Television Hospital	18	2	0.11111	0.13112	0.11377	0.00000	0.34132	.	0
420483	Goleta Valley Cottage Hospital	17	1	0.05882	0.12838	0.06152	0.00000	0.24608	.	0
361110	Bear Valley Community Hospital	15	4	0.26667	0.10848	0.33003	0.00000	0.74257	.	0
361458	Colorado River Medical Center	15	1	0.06667	0.07657	0.11689	0.00000	0.46757	.	0
420522	Santa Ynez Valley Cottage Hospital	15	2	0.13333	0.15354	0.11659	0.00000	0.34977	.	0
270777	George L. Mee Memorial Hospital	12	1	0.08333	0.10261	0.10904	0.00000	0.43616	.	0
320986	Plumas District Hospital	12	0	0.00000	0.10342	0.00000	.	.	.	1
450936	Mayers Memorial Hospital	11	2	0.18182	0.07298	0.33450	0.00000	1.00349	.	0
105029	Fresno Heart and Surgical Hospital	10	2	0.20000	0.13511	0.19874	0.00000	0.59622	.	0
220733	John C. Fremont Healthcare District	10	2	0.20000	0.11743	0.22866	0.00000	0.68599	.	0
484044	Kaiser Foundation Hospital – Vacaville	10	2	0.20000	0.14873	0.18054	0.00000	0.54161	.	0
110889	Glenn Medical Center	8	0	0.00000	0.10208	0.00000	.	.	.	1
551061	Tuolumne General Medical Facility	7	1	0.14286	0.10315	0.18595	0.00000	0.74380	.	0
320859	Eastern Plumas Hospital – Portola Campus	6	1	0.16667	0.10058	0.22248	0.00000	0.88992	.	0
321016	Seneca Healthcare District	6	0	0.00000	0.07693	0.00000	.	.	.	1
361266	Mountains Community Hospital	6	0	0.00000	0.10103	0.00000	.	.	.	1
160702	Corcoran District Hospital	5	2	0.40000	0.10466	0.51315	0.00000	1.53944	.	0
260011	Mammoth Hospital	5	0	0.00000	0.09964	0.00000	.	.	.	1
100745	Kingsburg Medical Center	4	0	0.00000	0.09250	0.00000	.	.	.	1

Appendix Table Q-3: 30-Day Readmission Hospital Rankings

Table Q-3: 3-Year 30-Day Readmission Hospital Rankings (Any Index)

OSHPD_ID	FACNAME	N	OBS_N	OBSERVE	PREDICT	SCORE	SCORE_L	SCORE_U	ReAD30_RANK	CLASS
150775	Good Samaritan Hospital – Bakersfield	4	0	0.00000	0.15514	0.00000	.	.	.	1
190230	Centinela Freeman Regional Medical Center – Memorial Campus	3	1	0.33333	0.14757	0.30326	0.00000	1.21303	.	0
250956	Modoc Medical Center	1	0	0.00000	0.08051	0.00000	.	.	.	.
301155	College Hospital Costa Mesa	1	0	0.00000	0.12437	0.00000	.	.	.	.

Appendix R: Comparison of Hospital Rankings

Section R-1: 30-day Mortality vs. Inpatient Death
Section R-2: 30-day Mortality vs. 30-day Readmission
Section R-3: 30-day Mortality vs. 30-day Death without Hospital Death
Section R-4: 30-day Mortality vs. Cox Inpatient Death
Section R-5: 30-day Mortality vs. Cox 30-day Readmission

Section R-1: *Comparison of 30-day Mortality vs. Inpatient Death*

Table of death by hdeath						
death	**hdeath**					
	1	**2**	**3**	**4**	**5**	**Total**
1	33 10.7	17 5.5	8 2.59	2 0.65	1 0.32	61 19.74
2	11 3.56	24 7.77	14 4.53	11 3.56	2 0.65	62 20.06
3	9 2.91	15 4.85	16 5.18	19 6.15	3 0.97	62 20.06
4	8 2.59	4 1.29	13 4.21	21 6.8	16 5.18	62 20.06
5	0 0	2 0.65	11 3.56	9 2.91	40 12.9	62 20.06
Total	61 19.7	62 20.1	62 20.1	62 20.1	62 20.1	309 100
Frequency Missing = 29						

Test of Symmetry	
Statistic (S)	16.9021
DF	10
Pr > S	0.0766

Test of H0: Kappa = 0	
ASE under H0	0.0284
Z	10.2679
One-sided Pr > Z	<.0001
Two-sided Pr > |Z|	<.0001

Simple Kappa Coefficient	
Kappa	0.2921
ASE	0.0353
95% Lower Conf Limit	0.223
95% Upper Conf Limit	0.3612

Weighted Kappa Coefficient	
Weighted Kappa	0.4895
ASE	0.0342
95% Lower Conf Limit	0.4224
95% Upper Conf Limit	0.5565

Section R-2: *Comparison of 30-day Mortality vs. 30-day Readmission*

Table of death by read						
death	**read**					
	1	**2**	**3**	**4**	**5**	**Total**
1	9 2.92	11 3.57	12 3.9	12 3.9	17 5.52	61 19.81
2	12 3.9	9 2.92	10 3.25	17 5.52	14 4.55	62 20.13
3	15 4.87	14 4.55	9 2.92	17 5.52	7 2.27	62 20.13
4	14 4.55	14 4.55	20 6.49	5 1.62	9 2.92	62 20.13
5	11 3.57	14 4.55	11 3.57	11 3.57	14 4.55	61 19.81
Total	61 19.8	62 20.1	62 20.1	62 20.1	61 19.8	308 100
Frequency Missing = 30						

Test of Symmetry	
Statistic (S)	4.1055
DF	10
Pr > S	0.9425

Test of H0: Kappa = 0	
ASE under H0	0.0285
Z	-2.2228
One-sided Pr < Z	0.0131
Two-sided Pr > |Z|	0.0262

Simple Kappa Coefficient	
Kappa	-0.0633
ASE	0.0254
95% Lower Conf Limit	-0.1131
95% Upper Conf Limit	-0.0135

Weighted Kappa Coefficient	
Weighted Kappa	-0.079
ASE	0.0385
95% Lower Conf Limit	-0.1545
95% Upper Conf Limit	-0.0035

Section R-3: *Comparison of 30-day mortality vs. 30-day Death Excluding Hospital Death*

Table of death by dearea						
death	**dearea**					
	1	**2**	**3**	**4**	**5**	**Total**
1	42 13.6	12 3.88	5 1.62	1 0.32	1 0.32	61 19.74
2	11 3.56	20 6.47	17 5.5	11 3.56	3 0.97	62 20.06
3	5 1.62	13 4.21	20 6.47	17 5.5	7 2.27	62 20.06
4	1 0.32	13 4.21	13 4.21	19 6.15	16 5.18	62 20.06
5	2 0.65	4 1.29	7 2.27	14 4.53	35 11.3	62 20.06
Total	61 19.7	62 20.1	62 20.1	62 20.1	62 20.1	309 100
Frequency Missing = 29						

Test of Symmetry	
Statistic (S)	1.8863
DF	10
Pr > S	0.9971

Test of H0: Kappa = 0	
ASE under H0	0.0284
Z	10.5523
One-sided Pr > Z	<.0001
Two-sided Pr > |Z|	<.0001

Simple Kappa Coefficient	
Kappa	0.3002
ASE	0.0353
95% Lower Conf Limit	0.2309
95% Upper Conf Limit	0.3694

Weighted Kappa Coefficient	
Weighted Kappa	0.4976
ASE	0.0345
95% Lower Conf Limit	0.43
95% Upper Conf Limit	0.5651

Section R-4: *Comparison of 30-day Mortality vs. Cox Inpatient Death*

Table of death by coxdeath						
death	**coxdeath**					
	1	**2**	**3**	**4**	**5**	**Total**
1	33 10.7	9 2.92	6 1.95	4 1.3	8 2.6	60 19.48
2	13 4.22	18 5.84	14 4.55	6 1.95	11 3.57	62 20.13
3	7 2.27	14 4.55	19 6.17	13 4.22	9 2.92	62 20.13
4	3 0.97	13 4.22	8 2.6	24 7.79	14 4.55	62 20.13
5	5 1.62	8 2.6	15 4.87	15 4.87	19 6.17	62 20.13
Total	61 19.8	62 20.1	62 20.1	62 20.1	61 19.8	308 100
Frequency Missing = 30						

Test of Symmetry	
Statistic (S)	7.417
DF	10
Pr > S	0.6856

Test of H0: Kappa = 0	
ASE under H0	0.0285
Z	7.3214
One-sided Pr > Z	<.0001
Two-sided Pr > |Z|	<.0001

Simple Kappa Coefficient	
Kappa	0.2086
ASE	0.0344
95% Lower Conf Limit	0.1412
95% Upper Conf Limit	0.2759

Weighted Kappa Coefficient	
Weighted Kappa	0.3037
ASE	0.0404
95% Lower Conf Limit	0.2246
95% Upper Conf Limit	0.3829

Section R-5: *Comparison of 30-day Mortality vs. Cox 30-day Readmission*

Table of death by coxread						
death	**coxread**					
	1	**2**	**3**	**4**	**5**	**Total**
1	35 11.4	9 2.92	9 2.92	8 2.6	0 0	61 19.81
2	8 2.6	16 5.19	24 7.79	12 3.9	2 0.65	62 20.13
3	6 1.95	15 4.87	13 4.22	17 5.52	11 3.57	62 20.13
4	4 1.3	13 4.22	12 3.9	12 3.9	21 6.82	62 20.13
5	8 2.6	9 2.92	4 1.3	13 4.22	27 8.77	61 19.81
Total	61 19.8	62 20.1	62 20.1	62 20.1	61 19.8	308 100
Frequency Missing = 30						

Test of Symmetry	
Statistic (S)	22.5747
DF	10
Pr > S	0.0124

Test of H0: Kappa = 0	
ASE under H0	0.0285
Z	5.8969
One-sided Pr > Z	<.0001
Two-sided Pr > |Z|	<.0001

Simple Kappa Coefficient	
Kappa	0.168
ASE	0.0337
95% Lower Conf Limit	0.102
95% Upper Conf Limit	0.234

Weighted Kappa Coefficient	
Weighted Kappa	0.3282
ASE	0.0394
95% Lower Conf Limit	0.251
95% Upper Conf Limit	0.4053