

Supplementary Table 2. Regression models evaluating factors associated with hospitalization duration and discharge

Characteristic	Hospitalization duration			Nonhome discharge		
	B	95% CI	p-value	OR	95% CI	p-value
Age at surgery	-0.010	-0.023 to 0.003	0.126	1.026	1.020–1.033	<0.001
Sex						
Male (reference)						
Female	-0.039	-0.354 to 0.276	0.807	1.291	1.110–1.503	<0.001
Year of admission	-0.172	-0.233 to -0.111	<0.001	0.997	0.968–1.027	0.848
Region						
Northeast (reference)						
North Central	-0.387	-0.870 to 0.096	0.116	0.827	0.657–1.041	0.106
South	-0.403	-0.844 to 0.037	0.073	0.971	0.789–1.196	0.784
West	-0.387	-0.902 to 0.129	0.141	1.111	0.873–1.414	0.393
Unknown	0.003	-1.056 to 1.063	0.995	1.123	0.685–1.840	0.645
Plan type						
Comprehensive (reference)						
EPO	-0.901	-2.336 to 0.534	0.219	0.810	0.422–1.555	0.527
HMO	-0.531	-1.287 to 0.226	0.169	0.805	0.576–1.124	0.202
POS	-0.233	-1.067 to 0.601	0.583	0.739	0.507–1.078	0.116
PPO	-0.417	-1.054 to 0.221	0.200	0.674	0.512–0.887	0.005
POS with capitation	-0.142	-2.130 to 1.846	0.889	0.813	0.319–2.069	0.664
CDHP	-0.487	-1.461 to 0.487	0.327	0.812	0.517–1.277	0.367
HDHP	-0.628	-1.688 to 0.431	0.245	1.007	0.621–1.633	0.978
Tumor Classification						
Meningioma (reference)						
Spinal cord tumor	0.081	-0.285 to 0.447	0.666	1.239	1.034–1.485	0.020
Metastasis	-0.115	-0.969 to 0.740	0.793	1.263	0.873–1.828	0.214
Other	0.447	-0.419 to 1.312	0.312	1.601	1.063–2.413	0.024
Tumor grade						
Benign (reference)						
Malignant	1.763	1.259 to 2.268	<0.001	1.684	1.349–2.104	<0.001
Unknown	0.256	-0.149 to 0.661	0.215	0.955	0.780–1.169	0.652
Location						
Lumbar (reference)						
Cervical	0.645	0.239 to 1.050	0.002	1.993	1.629–2.438	<0.001
Sacral	-3.367	-6.171 to -0.563	0.019	0.243	0.041–1.430	0.118
Thoracic	0.502	0.140 to 0.864	0.007	2.456	2.047–2.945	<0.001
Compartment						
Extramedullary (reference)						
Intramedullary	1.250	0.857 to 1.643	<0.001	2.417	2.026–2.883	<0.001
Intradural, NOS	2.475	0.215 to 4.734	0.032	1.491	0.538–4.133	0.442

(continued)

Supplementary Table 2. Regression models evaluating factors associated with hospitalization duration and discharge (continued)

Characteristic	Hospitalization duration			Nonhome discharge		
	B	95% CI	p-value	OR	95% CI	p-value
Surgical approach						
Posterior (reference)						
Anterior	2.109	-0.803 to 5.021	0.156	1.030	0.284–3.741	0.964
Combined	1.576	-4.406 to 7.557	0.606	3.203	0.166–61.69	0.441
Arthrodesis	0.233	-0.315 to 0.781	0.405	1.154	0.899–1.483	0.261
Operating microscope used	-0.850	-1.169 to -0.531	<0.001	0.740	0.637–0.861	<0.001
Intraoperative neuromonitoring	-0.212	-0.520 to 0.097	0.178	1.030	0.889–1.195	0.691
Comorbidities						
Congestive heart failure	0.393	-0.487 to 1.273	0.381	1.025	0.700–1.502	0.899
Cardiac arrhythmia	0.354	-0.103 to 0.811	0.129	1.101	0.895–1.353	0.363
Valvular disease	-0.184	-0.762 to 0.393	0.532	0.984	0.759–1.277	0.905
Pulmonary circulation disorders	1.501	0.365 to 2.638	0.010	1.874	1.158–3.032	0.011
Peripheral vascular disorders	0.120	-0.480 to 0.719	0.696	1.073	0.826–1.394	0.599
Hypertension uncomplicated	0.037	-0.322 to 0.395	0.840	0.971	0.820–1.150	0.736
Hypertension complicated	-0.372	-1.163 to 0.419	0.356	1.185	0.844–1.664	0.326
Paralysis	1.898	1.218 to 2.578	<0.001	2.558	1.918–3.413	<0.001
Other neurological disorders	0.830	0.286 to 1.373	0.003	1.366	1.082–1.725	0.009
Chronic pulmonary disease	-0.097	-0.517 to 0.323	0.649	0.826	0.677–1.008	0.060
Diabetes uncomplicated	0.479	-0.026 to 0.984	0.063	1.294	1.033–1.621	0.025
Diabetes complicated	0.735	-0.096 to 1.565	0.083	1.352	0.943–1.938	0.100
Hypothyroidism	-0.311	-0.750 to 0.129	0.166	0.836	0.681–1.027	0.087
Renal failure	0.240	-0.677 to 1.156	0.608	0.949	0.634–1.421	0.799
Liver disease	0.248	-0.324 to 0.819	0.396	0.946	0.728–1.229	0.678
Peptic ulcer disease excluding bleeding	-0.705	-2.257 to 0.847	0.373	0.742	0.342–1.608	0.449
AIDS/HIV	-0.648	-4.611 to 3.314	0.748	2.815	0.566–13.99	0.206
Rheumatoid arthritis/collagen	-0.103	-0.660 to 0.454	0.718	1.099	0.849–1.423	0.473
Coagulopathy	0.788	-0.121 to 1.697	0.089	1.469	0.995–2.169	0.053
Obesity	-0.188	-0.726 to 0.350	0.493	0.989	0.769–1.273	0.934
Weight loss	0.928	0.050 to 1.805	0.038	1.336	0.904–1.975	0.146
Fluid and electrolyte disorders	1.260	0.693 to 1.827	<0.001	1.054	0.817–1.361	0.686
Blood loss anemia	0.230	-1.237 to 1.696	0.759	2.147	1.133–4.070	0.019
Deficiency anemia	-0.333	-1.008 to 0.342	0.333	1.196	0.885–1.617	0.244
Alcohol abuse	-0.730	-2.134 to 0.674	0.308	0.601	0.296–1.220	0.158
Drug abuse	-0.124	-1.403 to 1.154	0.849	1.021	0.558–1.868	0.947
Psychoses	1.193	-0.091 to 2.478	0.069	1.519	0.865–2.665	0.145
Depression	0.602	0.168 to 1.035	0.007	1.031	0.840–1.266	0.768

CI, confidence interval; OR, odds ratio; EPO, exclusive provider organization; HMO, health maintenance organization; POS, point-of-service; PPO, preferred provider organization; CDHP, consumer driven health plan; HDHP, high deductible health plan; NOS, not otherwise specified; AIDS/HIV, acquired immune deficiency syndrome/human immunodeficiency.