Supplementary Table 3. Logistic regression assessing factors associated with postdischarge readmissions (90 days)

Characteristic	Odds ratio	95% CI	p-value
Age at surgery	0.988	0.980–0.996	0.004
Sex			
Male (reference)			
Female	0.839	0.684–1.030	0.093
Year of admission	0.947	0.909–0.987	0.010
Region			
Northeast (reference)			
North Central	0.789	0.582–1.070	0.128
South	0.703	0.532–0.929	0.013
West	0.767	0.551–1.068	0.116
Unknown	0.853	0.431–1.691	0.650
Plan Type			
Comprehensive (reference)			
EPO	1.216	0.435–3.399	0.709
HMO	2.154	1.232–3.765	0.007
POS	1.428	0.762–2.677	0.267
PPO	1.712	1.034–2.837	0.037
POS with capitation	-	-	-
CDHP	2.060	1.052–4.034	0.035
HDHP	2.381	1.136–4.993	0.022
Tumor classification			
Meningioma (reference)			
Spinal cord tumor	1.023	0.792–1.320	0.863
Metastasis	2.516	1.585–3.993	<0.001
Other	0.833	0.464–1.495	0.539
Tumor grade			
Benign (reference)			
Malignant	1.964	1.462–2.638	<0.001
Unknown	1.357	1.039–1.772	0.025
Location			
Lumbar (reference)			
Cervical	1.492	1.152–1.933	0.002
Sacral	1.789	0.179–17.891	0.621
Thoracic	1.038	0.811–1.329	0.765
Compartment			
Extramedullary (reference)			
Intramedullary	1.087	0.850–1.389	0.506
Intradural, NOS	0.470	0.062–3.574	0.466
Surgical approach			
Posterior (reference)			
Anterior	2.425	0.240–24.513	0.453
Combined	-	-	-

Supplementary Table 3. Logistic regression assessing factors associated with postdischarge readmissions (90 days) (continued)

Characteristic	Odds ratio	95% CI	p-value
Arthrodesis	0.882	0.615–1.263	0.493
Operating microscope used	0.798	0.649–0.982	0.033
Intraoperative neuromonitoring	0.931	0.760–1.140	0.488
Comorbidities			
Congestive heart failure	0.930	0.540–1.601	0.792
Cardiac arrhythmia	1.307	0.981–1.742	0.068
Valvular disease	1.055	0.727–1.532	0.777
Pulmonary circulation disorders	1.489	0.794–2.792	0.215
Peripheral vascular disorders	0.677	0.441–1.041	0.076
Hypertension uncomplicated	1.304	1.030–1.651	0.028
Hypertension complicated	1.171	0.717–1.912	0.529
Paralysis	1.571	1.072–2.303	0.020
Other neurological disorders	0.859	0.600–1.230	0.408
Chronic pulmonary disease	1.063	0.807–1.401	0.664
Diabetes uncomplicated	1.225	0.891–1.685	0.211
Diabetes complicated	1.331	0.811–2.185	0.258
Hypothyroidism	0.696	0.508–0.953	0.024
Renal failure	0.862	0.479–1.553	0.622
Liver disease	0.896	0.615–1.307	0.570
Peptic ulcer disease excluding bleeding	1.048	0.386–2.842	0.927
AIDS/HIV	-	-	-
Rheumatoid arthritis/collagen	1.094	0.756–1.581	0.634
Coagulopathy	1.967	1.220–3.170	0.005
Obesity	0.870	0.604–1.253	0.453
Weight loss	1.645	0.993–2.722	0.053
Fluid and electrolyte disorders	1.305	0.930–1.830	0.123
Blood loss anemia	0.945	0.380–2.349	0.903
Deficiency anemia	1.054	0.675–1.645	0.817
Alcohol abuse	0.751	0.304–1.860	0.537
Drug abuse	1.508	0.704–3.232	0.291
Psychoses	1.917	0.908–4.048	0.088
Depression	0.994	0.742–1.330	0.966

CI, confidence interval; 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.