

Appendix A. Five-item Modified Frailty Index (mFI-5) Scoring System

Risk factor	Points
<i>Congestive heart failure in the 30 days before surgery</i>	1
<i>History of severe chronic obstructive pulmonary disease or pneumonia</i>	1
<i>Hypertension requiring medication</i>	1
<i>Diabetes mellitus with oral agents or insulin</i>	1
<i>Non-independent functional health status at the time of surgery</i>	1
Total	5

Appendix B. Inclusion and Exclusion Criteria

Criteria	Relevant CPT code or NSQIP variable
*Extradural tumor removal (n = 3744)	CPT-63275, CPT-63276, CPT-63277, CPT-63278
Without relevant instrumentation coding (n= 2021)	CPT-22840, CPT-22842, CPT-22843
With corpectomy for tumor removal coding (n = 29)	CPT-63300-63308
With intradural extramedullary coding (n = 1)	CPT-63280-3
Surgical specialty other than neurosurgery or orthopedic surgery (n = 28)	“SURGSPEC”
Without disseminated cancer (n = 600)	“DISCANCR”
Missing readmission data (n = 158)	N/A

All relevant inclusion and exclusion criteria applied to the NSQIP dataset. Asterisk (*) indicates inclusion criteria.