Motivation of using robotic neuro/spinal surgery

* Removing a spinal tumor – very invasive- for tumor access, removed vertebrae, put in screws after tumor resection

Applications of Cautery for Neurosurgery and Spinal Surgery

* Cautery is used to cut, vaporize, coagulate tissue under fluid – “Electroconvergent Cautery”
* Spinal cord tumor resection:
  + Dissect subcutaneous tissue to get to the tumor – cauterizing fat, other layers of tissue
* Intracranial tumors

“Intramedullary Spinal Cord Tumors: Part II—Management Options and Outcomes”

* Cauterize feeding vessels of the tumour to help ‘liberate and remove the tumor’
* Resection of tumor is only after vascular supply is controlled