

Limb-Sparing Radical Resection of an Intra-neural Synovial Cell Sarcoma of the Median Nerve

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This video demonstrates limb-sparing surgery involving radical resection of a synovial cell sarcoma arising from the median nerve. The patient underwent 3 months (two cycles) of preoperative chemotherapy and radiation therapy after pathologic analysis and diagnosis. Ultimately, to prevent recurrence, the median nerve was resected, with transections distally and proximally. Subsequently, the sural nerve was harvested from the contralateral leg and transferred to the median nerve defect with sufficient coaptation. This was performed to restore function of the anterior aspect of the hand and wrist. Flexor tendon tenodesis also was performed over the volar aspect of the wrist. At 3 months postoperatively, the patient was doing well, with no reports of substantial pain and no residual mass observed on MRIs.