

Giant Cell Tumor Excision of the Hand Surgical Video

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This case presentation highlights the evaluation, surgical management, and postoperative care of a giant cell tumor of the hand, featuring a step-by-step surgical video from NYU Langone Orthopedics. The featured case involves a 62-year-old male with a longstanding, enlarging ring finger mass causing functional impairment and flexion contracture. Diagnosis was established through physical examination and MRI, favoring extraarticular giant cell tumor versus fibroma. The surgical video illustrates key technical aspects, including operative planning, careful neurovascular preservation, and en bloc tumor excision with intraoperative visuals. Specific attention is paid to the management of the flexor tendon sheath and meticulous soft tissue dissection to achieve clear margins and minimize recurrence risk. The excised lesion was well-circumscribed and encapsulated, with pathology confirming a giant cell tumor. The presentation reviews postoperative recovery, strategies to reduce recurrence, and relevant literature. Additionally, a second case demonstrating a rare dorsal-sided tumor at the middle finger metacarpophalangeal joint is discussed to underscore clinical variability. This comprehensive video-based resource provides practical guidance and technical pearls to enhance surgical education for trainees and practicing surgeons.