

ABSTRACT

Title of Abstract: Minimally Invasive Endoscopic Assisted Thoracic Discectomy for Thoracic Herniated Nucleus Pulposus

Purpose: To demonstrate the safety and efficacy of outpatient based endoscopic thoracic discectomy with laser thermodiskoplasty performed for symptomatic thoracic herniated nucleus pulposus.

Materials and Methods: Since February 1996, 100 patient's (152 discs) with symptomatic thoracic discs without myelopathy, who failed at least 12 weeks of conservative care, were treated. The technique of percutaneous microdecompressive endoscopic thoracic discectomy (with laser thermodiskoplasty) by posterolateral approach is described. The thoracic disc levels were T1 to T12. All patients demonstrated a contained soft thoracic disc herniation on MRI or CT scans. Intraoperative thoracic discogram and pain provocative tests were positive and confirmed the disc involved.

Results: Preliminary postoperative follow-up demonstrates 96% of all patients had symptomatic relief. There were no postoperative complications. Two patients demonstrated persistent, though reduced thoracic pain and paresthesia. The average time to return to work was ten days for the non-workers' compensation patients. Most of the patients received non-ablative lower laser energy application for thoracic disc shrinkage or tightening.

Conclusion: Percutaneous microdecompressive endoscopic thoracic discectomy with added application of non-ablative lower Holmium laser energy for disc shrinkage (laser thermodiskoplasty) appears to be easy, safe and efficacious. This less traumatic, easier outpatient treatment leads to excellent results, faster recovery, and significant economic savings

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