SMART®: Endoscopic Assisted Lumbar Surgery For Treatment Of Degenerative Disc Disease

J Chiu

Citation

Abstract
In response to the rapid development and demand of outpatient minimally invasive surgical technique, the new versatile SMART® Endoscopic Lumbar Spine System (Karl Storz GmbH & Co., Tuttingen, Germany) was developed to provide the necessary bridge between traditional and endoscopic spine surgical techniques. Through a small skin incision, and dilatation surgical technology, this endoscopic assisted surgical system, with progressive sized serial tubular retractors or working channels, provides superior lighting and clear viewing of internal operative field, for performing minimally invasive spinal surgery (MISS). It incorporates the advantages of posterolateral endoscopic lumbar system, and paramedian endoscopic assisted microdecompressive surgical spinal system. Because of the unique features of the SMART® endoscopic tubular access set, the surgeon can take advantage of microscopic, endoscopic, or direct-vision imaging during spinal surgery for microdecompression of herniated lumbar disc, degenerative spinal disease, spinal stenosis, and removal of intraspinal lesions besides spinal arthroplasty and spinal fixation. This less traumatic easier outpatient SMART® Endoscopic MISS treatment appears to be easy, safe, and efficacious leads to excellent results, speedier recovery, and significant economic savings.

References
Author Information

J. Chiu, M.D., FRCS, D.Sc.
Director, Neurospine Surgery, California Spine Institute Medical Center