

Spinal Endoscopy and Selective Microdiscectomy with the Y.E.S.S. System

Abstract

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The Yeung Endoscopic Spine System revolves around a specially configured endoscope designed to maximize visualization in a potential space through the integration of multiple inflow and outflow ports. The integration of these ports include an adequate size working channel incorporated in a scope strong enough to allow manipulation in the posterolateral portal and foramen yet small enough to adequately access the triangular zone bordered by the superior facet of the inferior vertebra, the end plates of the disc space and the exiting nerve.

Different configured cannulas also serve to provide working ports outside the sheath, yet protect vital structures such as the nerve root and dura from injury. With modified powered and manual instruments that allow for removal of bone, annulus, ligamentum flavum, articular cartilage and disc tissue, true microsurgery can be successful for the full spectrum of disc herniations and foraminoplasty. The excellent consistent visualization makes for reliable diagnostic spinal endoscopy and the ability to visualize allows the surgeon to evaluate various agents that modulate and help heal injured tissue.

Ultimately the Y.E.S.S. system will provide a minimally invasive alternative to standard, conventional surgery of the lumbar spine. The ability to visualize, document, and probe spinal structures under local anesthesia will enable the surgeon to gain invaluable information about the pathology of discogenic pain.

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