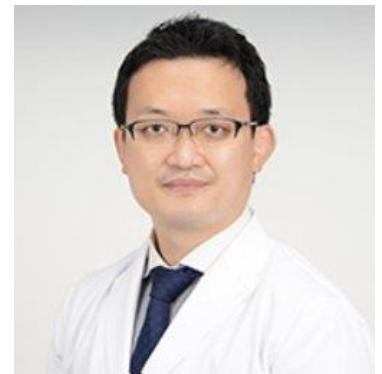


Title: Current Status and Prospects of Full-Endoscopic Spine Surgery for Minimally Invasive Procedures

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Abstract:

The minimally invasive nature of full-endoscopic spine surgery makes it particularly suitable for the treatment of the elderly patient.

The full-endoscopic spine surgery (FESS) is a procedure in which the entire surgical process is performed percutaneous endoscopically. It is currently the most minimally invasive spine surgery available, and its minimally invasive nature makes it particularly suitable for the treatment of the elderly. In addition, FESS can be performed without damaging the posterior musculature as in conventional surgery, which plays a role in helping professional athletes in particular return to competition and maintain their performance.

FESS was initially applied as a minimally invasive procedure for lumbar disc herniation, but recent developments in surgical equipment and techniques have expanded the range of indications for FESS. Now that fusion surgery is possible, most degenerative diseases such as cervical radiculopathy, lumbar degeneration of cervical spondylotic myelopathy, thoracic degenerative diseases, and lumbar spondylolisthesis can be treated. Furthermore, in terms of visibility of the lesion, it can be used to reach parts of the lesion that cannot be seen by conventional surgery to treat cases of postoperative symptom remnants, so-called “failed back surgery syndrome”. In addition, it is possible to elucidate the pathology of cases that have been lumped together as “failed back surgery syndrome”. On the other hand, FESS is a pin-point surgery, and its concept is to address only the part of the body that is causing the symptoms. Therefore, accurate neurological evaluation is necessary to ensure treatment results and to select patients for treatment. In other words, it is necessary to accurately evaluate the neurology, identify the area that is causing the patient's symptoms, and surgically treat only that area. In this session, we will present the history, current status, and future prospects of total endoscopic spine surgery by presenting FESS cases and treatment results performed at our institution.

Biography:

Takeshi Hara is associate professor at department of Neurosurgery, Juntendo University in Juntendo University Hospital, Tokyo, Japan. With expertise in biomechanics of spine and treatment of tethered cord syndrome. Their research interests include biomechanics of spine, and minimally invasive spine surgery.