

Recent management of Lumbar Spinal Stenosis patients with Interspinous Fusion Device

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Minimally invasive lumbar spine surgery may be helpful to reduce approach-related morbidities of conventional open surgery. The aim of the study is to evaluate the safety and efficacy of interspinous stabilization device compared with posterior spinal fusion in the treatment of one-level lumbar spinal stenosis.

From Mar. 2013 to Feb. 2017, 70 patients, who affected by monosegmental instability and lumbar spinal stenosis, underwent decompression combined with interspinous instrumentation device. Radiological outcomes was assessed using postoperative imaging study like plain X-ray, CT scan and MRI for evaluating how well the implant was inserted, and clinical outcome was also assessed using postoperative visual analog scale (VAS) and mean length of hospital stay along with any known comorbidities.

Mean follow-up period was 1.5 years. Preoperative and postoperative 7th day VAS score was compared in patients of each group. Patient who underwent interspinous fusion device instrumentation experienced significantly shorter operative times, less blood loss, and length of hospital stay. And both groups demonstrated significant clinical improvement from baseline in VAS. We conclude that interspinous fusion device is simple, safe, efficacious and viable alternative to instrumented spinal fusion in the treatment of single-level lumbar spinal stenosis.

CURRICULUM VITAE

Education	Membership & President
1974. 2. M.D. College of Medicine, Korea University	1979 Member of The Korean Neurosurgical Society
1989. 8. Ph.D. Korea University	1995 Member of The American Association of Neurological Surgeons
Faculty Appointment	1998 The Executive Committee Member, Korean Neurosurgical Society
1984 Instructor of Neurosurgery, College of Medicine Korea University	2001 President, The Korean Spinal Neurosurgery Society
1986 Assistant Professor of Neurosurgery, College of Medicine Korea University	2003 President, The 4th Korea-Japan Conference on Spinal Surgery
1988 Associate Professor of Neurosurgery, College of Medicine Korea University	2009 President, Korean Neuro-pain Society
1993- Professor of Neurosurgery, College of Medicine Korea University	2011 Member of the Spine Committee of the World Federation of Neurosurgical Society
1998-2004 Chairman of Neurosurgery, College of Medicine Korea University	2015 Honorary Life Membership INDIA Neuro Spinal Surgeons Association
2015 Professor Emeritus	
Visiting Fellowship	Honored Guest
1988-1989 Pennsylvania Hospital, Philadelphia, U.S.A. (Director ; Dr. Frederick A. Simeone)	2 nd Asia Spine & 9 th JKCSS, Fukuoka, Japan, 2011
1989-1990 Medical College of Wisconsin Milwaukee, U.S.A. (Director ; Dr. Sanford J. Larson)	Meritorious Award
	8 th Asia Spine & 32 nd Annual Meeting of the Neurospinal Society of Japan, Osaka, 2017