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## Posterior thoracolumbar corpectomy and reconstruction with two small cages

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The combined posterior-anterior approach has been widely employed for single level corpectomy in destructive thoracolumbar spinal disease. However, anterior corpectomy and fixation is technically demanding and has several disadvantages. Therefore, we tried the posterior approach only for decompression and circumferential reconstruction. From July 2013 to Dec. 2015, 10 consecutive patients were treated at our institution using this technique in various spinal disease including burst fracture, osteoporotic compression fracture and deformity. After performing subtotal or total corpectomy with upper and lower discectomy were performed, 360-degree reconstruction with two small titanium mesh cages insertion and correction of kyphosis by posterior transpedicular screw fixation were performed. Clinical and radiological data were retrospectively analyzed. All 10 patients (2 male and 8 female, mean age: 68.2 years) suffered from severe kyphotic deformity with or without neurological deficits. Mean surgical time was 374 minutes. Mean blood loss was 1220 mL. All patients experienced pain relief after the procedure. There was no intraoperative complication and newly developed neurological deficit after surgery. A successful restoration for kyphotic change was achieved in all patients and maintained during follow-up period. This operation is a reliable, effective, safe and less invasive treatment option and can be a good alternative modality for various spinal diseases. Long-term follow-up study with large number will be required to clarify the effectiveness of this technique in the future.

### Biography

Ki Young Choi graduated from Chonnam National University Medical School in 2006 and has completed Internship from 2007 to 2008. After that, Dr. Choi completed Resident Training in Department of Neurosurgery from 2008 to 2011. He completed Korean Military Service as Public Health Doctor from 2012 to 2015. Then, He worked in Department of Neurosurgery, Chonnam National University Hospital from 2015. Now, He is Assistant Professor at Department of Neurosurgery in Chonnam National University Hospital. He is Member of Korean Medical Association, Korean Neurosurgical Society and Korean Spinal Neurosurgery Society.

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