

언어구분	KOR	논문구분	원저/구연	논문분야	척추
논문제목	골밀도가 낮은 요추 퇴행성 후만증 환자에서의 수술적 교정: 최소 2년 이상 추시한 40명의 환자의 분석				
영문제목	<b>Surgical correction in patients with Lumbar Degenerative Kyphosis with low bone mineral density: An analysis of 40 patients with a minimum follow-up of two years.</b>				
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**서론** : Lumbar degenerative kyphosis is a specific disease entity commonly affecting the elderly. Although numerous studies have analysed the outcome and factors affecting surgical correction, no studies to date have reported the influence of low bone mineral density on the surgical outcome of lumbar degenerative kyphosis.

**재료 및 방법** : Lumbar degenerative kyphosis is a specific disease entity commonly affecting the elderly. Although numerous studies have analysed the outcome and factors affecting surgical correction, no studies to date have reported the influence of low bone mineral density on the surgical outcome of lumbar degenerative kyphosis.

**결과** : There were 37 (92.5%) female and 3 (7.5%) male patients. The average age of the study group was 65.1  $\pm$  4.5 years of age. The mean follow up duration was 34.2  $\pm$  16.7 months. The majority of the cases were classified under Takemitsu type 3 curves (42.5%) followed by type 2 (27.5%), type 4 (20.0%) and type 1 (10.0%). 37.5% of patients had osteopenia, 40.0% had osteoporosis and 22.5% had severe osteoporosis. The SVA improved from a pre-operative value of 237.0  $\pm$  96.7 mm to a post-operative value of 45.3  $\pm$  41.8 mm ( $p=0.000$ , paired t-test). The lumbar lordosis also improved significantly from 10.5  $\pm$  14.7o to -40.6  $\pm$  10.9o immediately after the operation ( $p=0.000$ , paired t-test). However at final follow up there was statistically significant deterioration in these values. The SVA deteriorated to 92.4  $\pm$  72.2 mm and the lumbar lordosis to 34.7  $\pm$  15.8o ( $p=0.000$ , paired t-test). Osteoporosis does not have significant association with late sagittal decompensation, pseudoarthrosis or proximal adjacent fractures. The difference between immediate post correction lumbar lordosis and pelvic incidence (PIDiff) was found to have significant association with sagittal decompensation and occurrence of pseudoarthrosis.

**결론** : Osteoporosis did not influence the degree of correction, late sagittal decompensation, proximal adjacent fractures, pseudoarthrosis in lumbar degenerative kyphosis. Difference between immediate post-operative LL and

PI has significant association with sagittal decompensation and pseudoarthrosis.

**acknowledgment :**

lumbar degenerative kyphosis, bone mineral density, surgery, outcome

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