

Bilateral Three-Level Lumbar Spondylolysis Repaired by Hook-Screw Technique

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Abstract

We report a case of bilateral three-level lumbar spondylolysis that was directly repaired by use of hook-screw technique. The patient complained of low back pain for 2 years that progressively worsened and was exacerbated with standing and walking. He also mentioned bilateral sciatalgia. The neurological examination was normal. Interestingly, we found bilateral lumbar spondylolysis in L3, L4, and L5 levels in imaging studies. After proving that spondylolysis was the source of the low back pain by local anesthetic agent injection, we used a direct technique for correction of spondylolysis by use of a hook-screw device plus decortications of lysis area and iliac crest autograft. We assessed the patient after surgery to evaluate pain recovery and fusion rate. The results were favorable and proved the efficacy of the hook-screw technique for treatment of symptomatic multilevel lumbar spondylolysis.

Keywords

hook-screw - low back pain - spondylolysis

以椎板鉤及鏢釘技術修復雙邊三個節段的的椎弓解離

我們報告的病例是直接以椎板鉤及鏢釘技術修復雙邊三個節段的的腰椎弓解離。病人主訴下腰痛 2 年並逐步惡化，在站立和行走更會加劇痛楚。他又提到雙邊坐骨神經痛。神經系統檢查結果正常。有趣的是，我們在成像檢查發現雙側 L3，L4，L5 節段的腰椎弓解離。在注射局部麻醉劑以證明腰椎弓解離是腰痛的源頭後，我們直接以椎板鉤及鏢釘技術修復椎弓解離的位置，又在病勢減退的位置使用皮質剝除術和進行髂嵴自體移植。我們評估了

病人手術後的疼痛恢復和融合率。結果是順利並證明了以椎板鉤及鑿釘技術治療有症狀的多節段腰椎弓解離的療效。