

## POSTERIOR EPIDURAL MIGRATION OF SEQUESTERED LUMBAR DISC

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### SUMMARY :

*Posterior epidural migration of sequestered disc is fairly rare. Since clinical and radiological findings are not typical, the diagnosis of these cases has some importance. In our opinion the best diagnostic method is postmyelographic CT.*

### KEY WORDS :

*Lumbar disc. Disc migration.*

### INTRODUCTION

Some degree of migration has been found in one-third of patients with extruded lumbar disc (1). Migration may be subligamentous, epidural, lateral or posterolateral. Sometimes it may even penetrate the dura or radix and resemble an intradural or intraradicular tumour.

So far there is one reported case of a cervical and two of lumbar discs that migrated to the posterior surface of the dural canal (2,3,4).

Posterior epidural migration of sequestered lumbar disc does not have typical discal hernia findings. Being able to choose the suitable diagnostic method this unique case gave us an idea of the choice of diagnostic method.

### CASE REPORT

A 53 year-old man who had been suffering from left leg pain had relief to some degree with conservative treatment. Fifteen days later he had another painful episode and was hospitalized for physical therapy. Acute paraparesia developed on the tenth day after admission. On neurosurgical consultation there was paraparesia which was prominent distally, both patella and Achilles reflexes were abolic. Walleix sign was positive and he was unable to stand up without help. There was no sensory deficit or sphincteric problem. Cremasteric and anal reflexes were intact.

Plain X-rays of the lumbar vertebral region verified narrowing on L4-5 and L5-S1 intervertebral spaces.

Spinal CT done on admission to hospital (Fig. 1) showed that the spinal canal was wide enough, but L3-4, L4-5, L5-S1 disc protrusions filled the epidural

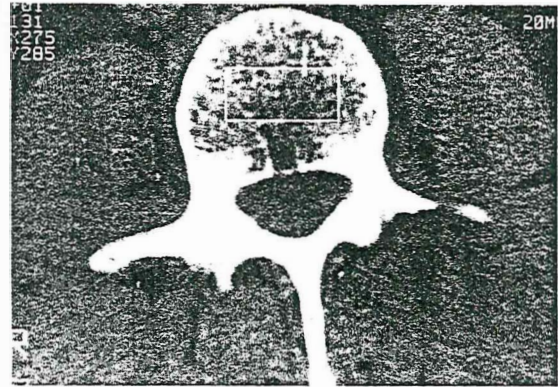


Fig. 1 : Preoperative CT of level L3-L4

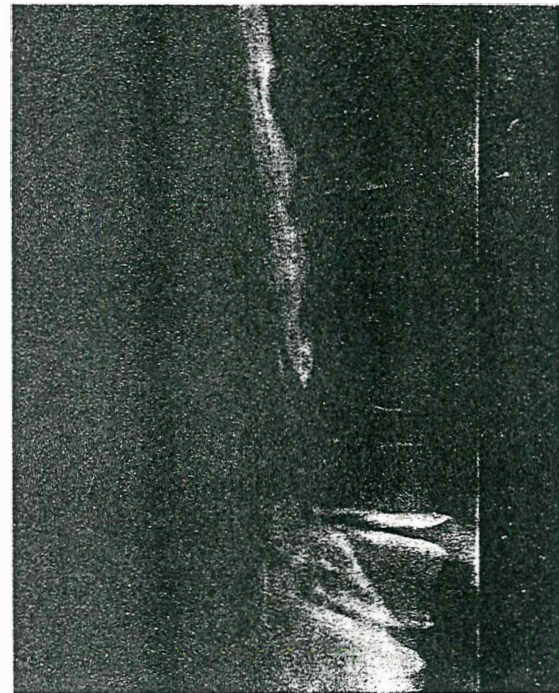


Fig. 2 : Myelography showed a complete block at L3 level and narrowing of L4-5, L5-S1 intervertebral space.

The patient was taken to urgent operation. There was no epidural fat when partial L3 hemilaminectomy was done. The posterior longitudinal ligament of the L3-L4 level was intact. Dural sac was found to be pressed and displaced by hard yellowish-white cartilagenous extruded disc material. This sequestered material was taken out the dural sac expanded and bilaterally compressed L3, L4 nerve roots were decompressed. Histopathology of the material revealed intervertebral disc.

## DISCUSSION

fusion (4). Our patient had no trauma or history of an operation related with the specific region. In contrast to the case of (Lutz et al.) who had sensorial deficit, our case had prominent motor deficit and had intact sacral elements (5). For investigation of the spinal region today, myelography, CT, MRI and postmyelogram CT are widely used.

On postmyelogram CT the subarachnoid space and dural sac the were found to be displaced anteriorly and recording of the density of the posteriorly placed mass, the patient's complaints of sciatica and the width of the spinal canal made us think it was a posteriorly migrated extruded lumbar disc.

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