

– Abstract –

## **Fibrous Mass Complicating Epidural Steroid and Local Anesthetic Injection – A Case Report –**

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The use of epidural injection of local anesthetics with steroid for the treatment of back pain and sciatica is a widely used procedure. There have been several reports about spinal cord compression by granuloma or fibrous mass related to intrathecal or epidural morphine injection. There have been also some reports about arachnoiditis after epidural injection of steroid. However, there have been no reports regarding dural sac or nerve root compression by fibrous mass after epidural steroid injections. We would report a case of dural sac and nerve root compression secondary to the formation of fibrous mass in the lumbar epidural space after epidural steroid and local anesthetic injections. In this case, the characteristic radiologic findings before and after epidural injection therapy and clinical progress were documented.

**Key Words** : Nerve root compression, Fibrous mass, Complication, Epidural steroid injection

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2,4)

52

7

6,9)

2

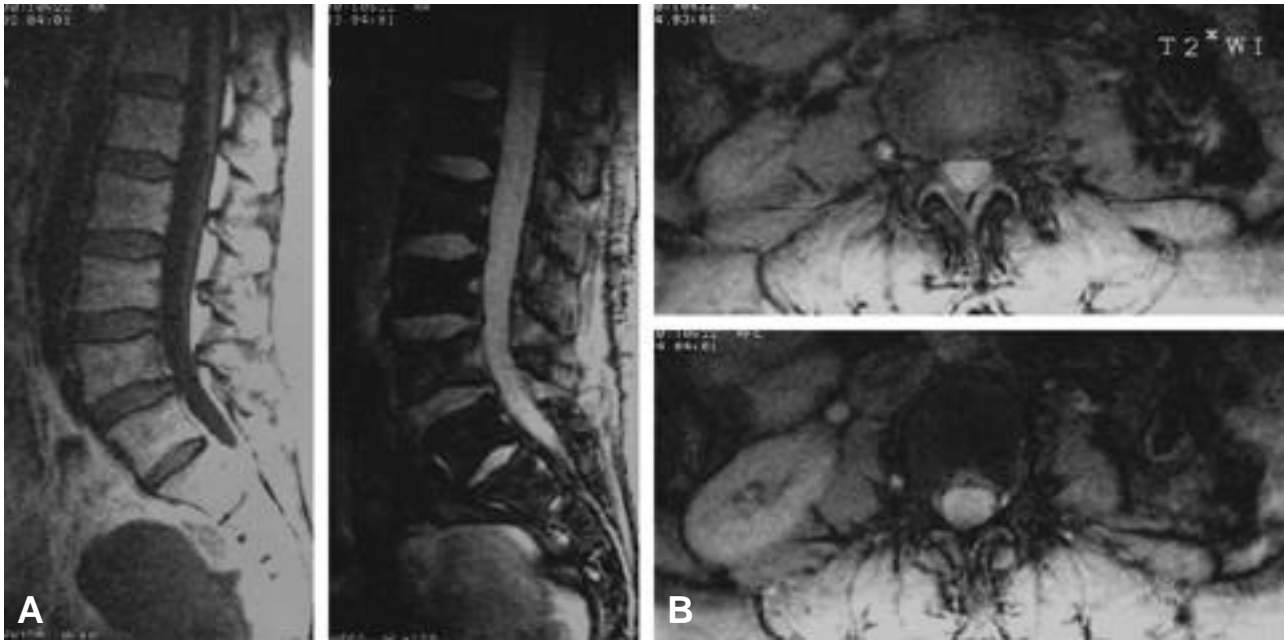
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**Fig. 1-A.** T1(left) weighted and T2(right) weighted sagittal sequence of MR imaging, which has been taken before epidural injection, shows L4-5 disc bulging.

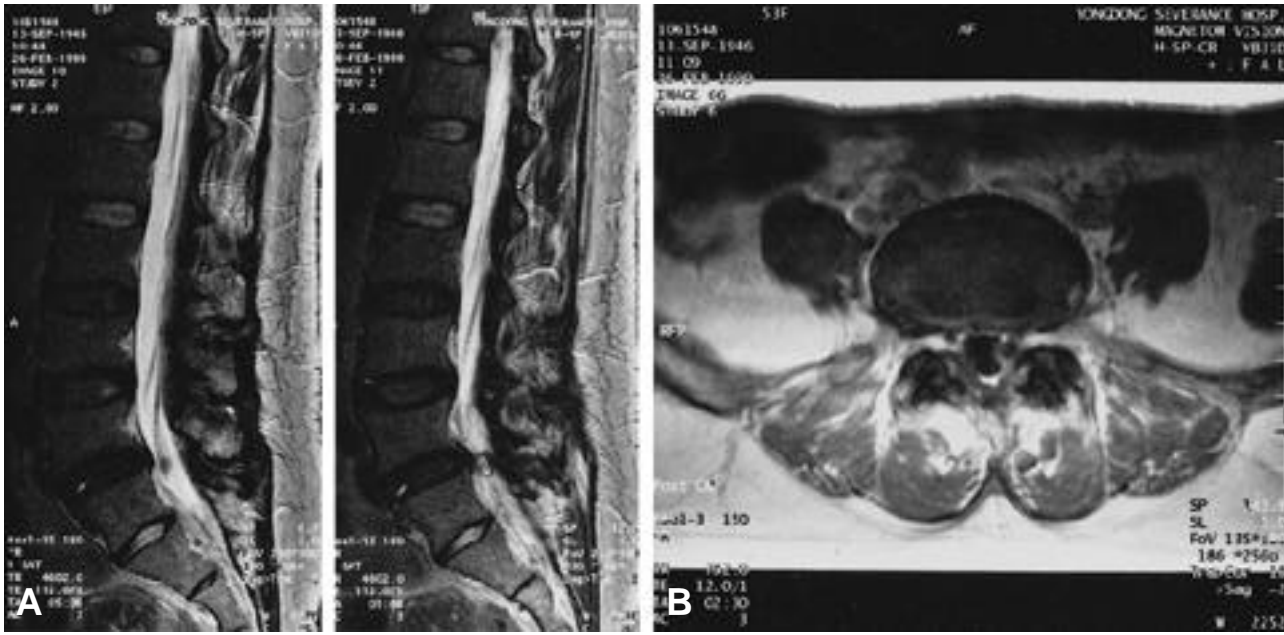
**B.** Axial sequence of MR imaging of L4-5 level, which has been taken before epidural injection, shows no definite disc herniation.

4-5	(epidural
catheter implantation)	triamcinolone 40mg
0.8% xylocaine 8cc	1
2	
	2
3	
가	
(fair)	
80,	30, 가
	L4-5
	(Fig. 1-A,B).
3	
	5
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5	, 4-



**Fig. 2.** Postmyelographic CT scan of L4-5 level, which has been taken after epidural injection, shows smooth, well margined, round mass, which is compressing the dural sac and left L5 nerve root.

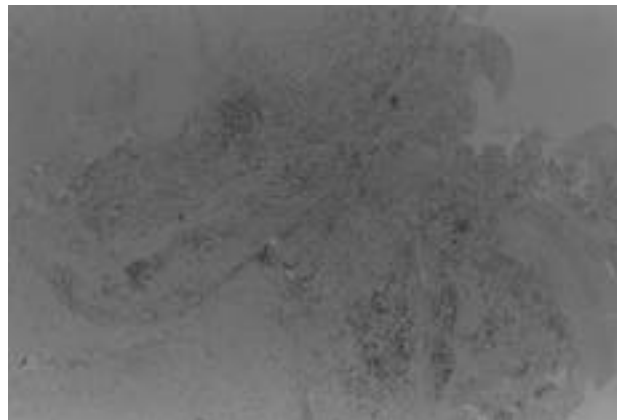
(Fig. 2).



**Fig. 3-A.** T<sub>2</sub>-weighted sagittal sequence of MR imaging shows high and intermediate mixed signal intensity mass, which is compressing the dural sac.

**B.** Axial T<sub>1</sub>-weighted MR imaging shows extradural round mass with low signal intensity peripheral margin producing unilateral left L5 nerve root and dural sac compression.

T<sub>1</sub>  
5  
가  
(Fig. 3-A,B).  
5  
0.8×0.8×0.5cm  
가



**Fig. 4.** Light microscopic photograph of specimen shows diffuse lymphocytic infiltration with dense fibrosis. There is no disc material in the specimen(H-E stain, × 40).

(Fig. 4).

가 phospholipase A2  
7).

5,9). Latham 6)  
(high-dose betamethasone)

가

2,4).

가

8 가  
1,3,8,10) Cabbell

5),

3) 3 가  
 . Rodan 10)  
 가 , Blount 1) 3  
 (polyethylene catheter)  
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 1

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