

요추부 척추후관절 낭종의 수술적 치료

문병진 · 구성욱 · 진동규 · 윤영설 · 조용은 · 김영수

The Surgical Treatment of Lumbar Facet Cyst

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Objective : We report an analysis of the clinical outcome of surgical treatment of lumbar facet cyst.

Methods : From March, 1996 to June, 2001, we analyzed the symptom and sign, cyst level, combined disease, treatment method, pathology and surgical result (Prolo's scale) of 11 patients.

Results : Mean age of 11 patients was 55.6 years and mean follow up duration was 27 months. Of 11 patients, six cases had low back pain and five cases had radiating leg pain as chief complaint. Five had only facet cyst that compressed the nerve root without other combined diseases. Of six patients who had facet cyst with combined disease, three had intraspinal stenosis and the remaining three had spondylytic spondylolithesis. There was one case of bilateral facet cyst. We had totally excised facet cyst and treated combined degenerative disease such as lumbar stenosis, lumbar instability or spondylytic spondylolithesis. The pathologic result were synovial cyst for eight cases and ganglion for three cases. In all cases, symptoms improved without complication or recurrence.

Conclusion : Surgical outcome of lumbar facet cyst is good and surgical intervention is recommended in facet cyst with back pain, radiculopathy and combined degenerative diseases.

KEY WORDS : Facet cyst · Synovial cyst · Ganglion · Surgical treatment.

서 론

3).

1997 3 2001 6

11

1).

대상 및 방법

가 가

1997 3 2001 6

가

(synovial cyst) 11

(ganglion)

6

가

Prolo's scale

6

3 8

2 3

4

4

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방사선학적 진단 및 낭종의 위치

가 6 3~4 4, 4~5 4, 5 -
 3 가 7,
 가 3 1
 (Fig. 1).

낭종과 동반된 질환

6 가 3
 가
 3
 가 5 - 1,
 4~5 1 3~4 4~5
 (double spondylolytic spondylo-
 listhesis) 가 가 1 5 -
 3~4 4~5
 3~4

결 과

연령 및 성별분포

가 5, 가 6, 40
 가 4, 50 1, 60 가 5 55.6 (45~
 65)

임상 증상

11 6
 4 . 5
 (dorsiflexion)
 Grade 4 5 (dermato-
 me) 가 3

수술부위 및 조직학적소견

가
 5

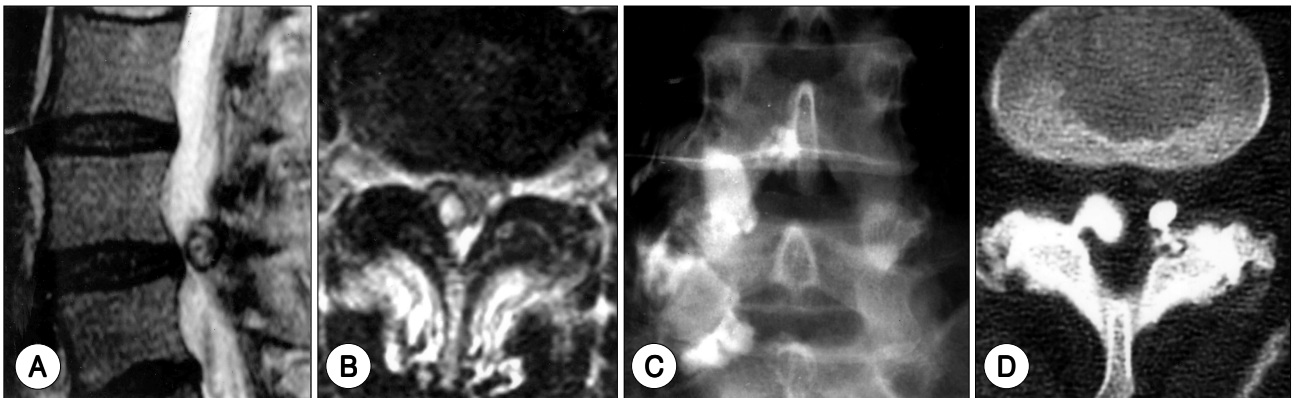


Fig. 1. Radiologic findings of L4-5 bilateral facet cyst. A : T2 weighted sagittal magnetic resonance image ; intraspinal isointense facet cyst on L4-5 segment, B : T1 weighted axial magnetic resonance image ; bilateral facet cysts on L4-5 segment, C : Facetogram, D : After facetogram, computed tomography scan.

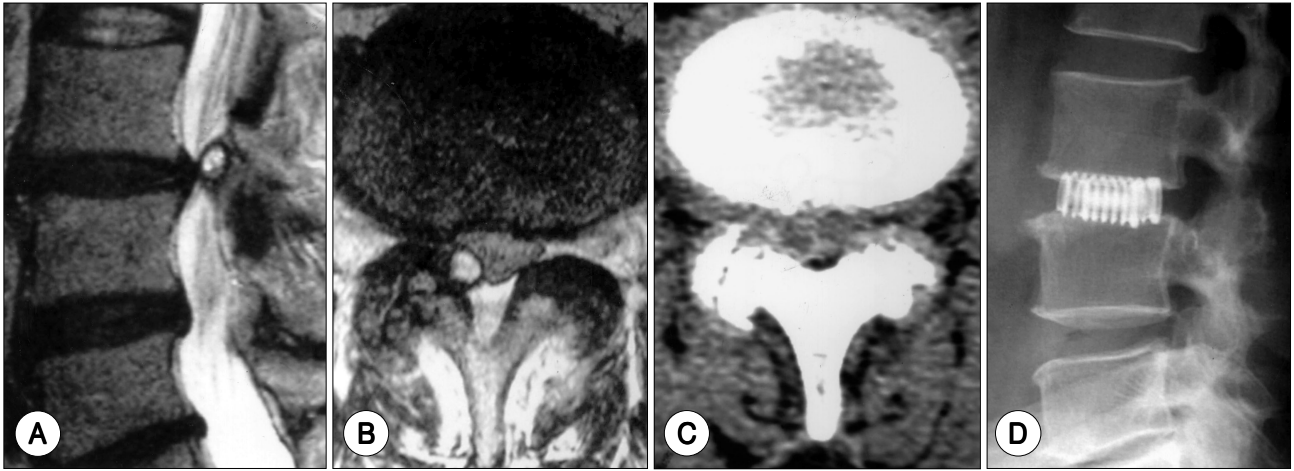


Fig. 2. Facet cyst combined chronic degenerative herniated lumbar disc and stenosis L3-4 level. A, B : T2 weighted sagittal and T1 weighted axial magnetic resonance image, C : Facet cyst on computed tomography scan, D : Postoperative radiologic finding lateral view demonstrates posterior lumbar interbody fusion state.

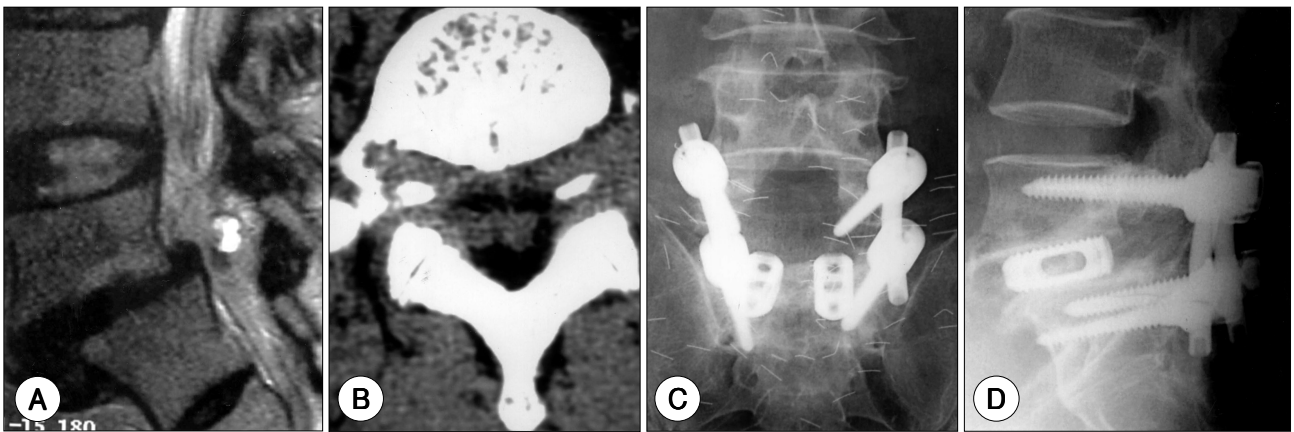


Fig. 3. Facet cyst combined spondylolytic spondylolisthesis Grade 1 on L5-S1 segment. A : T2 weighted sagittal magnetic resonance image ; high signal intensity, B : Computed tomography scan, C, D : Postoperative X-ray of PLIF and pedicle screw fixation state.

(Fig. 2),

3

12,16,25)

1880 von Gruker

(Fig. 3).

가

, 1973

8 ,

3 .

Syport

14).

수술후 경과 및 합병증

11

Soren

Prolo 's scale

6 excellent

(Prolo 's scale 9~10),

5 good(7~8)

pseudostratified columnar epithelium

(synovium)

(synovial sheath)

(joint capsule)

(mesothelial cell)

(collagenous cap-

sule)

14,24,26). Kao

(Table 1).

고 찰

Table 1. Summary of cases

	Follow up duration	Age/sex	Symptom	Cyst location	Combined disease	Tx	path	Prolo's scale
1	38mo	61/M	LBP	4/5 Rt	Stenosis	PLIF	s	E
2	44mo	51/F	LBP	3/4 Lt	Stenosis	PLIF	s	G
3	40mo	59/M	RLP	4/5 Rt		PHL	s	E
4	37mo	62/M	RLP	5/S1 Rt		PHL	Ga	E
5	35mo	46/F	BLP	4/5 Bil		PHL	s	G
6	25mo	45/F	LBP	4/5 Lt	stenosis	PLIF	Ga	E
7	21mo	65/M	LBP	5/S1 Rt	Lytic listhesis 5/S1	360	s	G
8	19mo	47/F	LLP	3/4 Lt		PHL	s	E
9	17mo	49/F	LBP	3/4 Rt	double lytic listhesis 3/4/5	360	Ga	G
10	12mo	64/M	LBP	3/4 Rt	Lytic listhesis 4/5	360	s	G
11	6mo	63/F	RLP	3/4 Rt		PHL	s	E

LBP : Low Back Pain, Path : Pathology, RLP : Right Leg Pain, S : Synovial cyst, LLP : Left Leg Pain, Ga : Ganglion, BLP : Both Leg Pain, Bil : Bilateral, E : Excellent, G : Good, lytic listhesis : spondylolytic spondylolisthesis, Tx : Treatment, PHL : Partial Hemilaminectomy, PLIF : Posterior Lumbar Interbody Fusion, 360 : PLIF and pedicle screw fixation

(juxta - facet cysts)

14)

가

8,10,17,25)

11

8

3

(cauda equina synd-

rome)

가

11,22)

hyaluronic acid

가 14,24)

2,24)

가 가

가

가

가

가 1,25)

4~5

가

(annulus fibrosus),

(odontoid quadrate ligament),

4,5,7,9,20,25)

가

가

12,21,24,26)

50~60

14)

2,3)

Goffin

가

(spinal degenerative articular cyst)

9)

11

가 40

21)

3~4 , 4~5

가 3~4

3 1

, 1

1

4~5

(cut - off)

가

T1

11

, T2

4,18)

T1

, T2

13)

T2

18)

cyst), (arachnoid
(perineural cyst), (ext-
ruded or sequestered disc fragment), Tarvlov
(cystic degeneration)
10,12,19)

가 가

3,25)

6

가

23)

3,15,25) 11

가

결 론

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2002

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