

1)
therapy : IDET)
(intradiscal electrothermal
IDET)
가 2000 1

' concurrent pain '
lido-
caine 가 ' discurrent
pain '
' concurrent pain ' IDET
' high resistance ' ' low resistance '

대상 및 방법

2000 1 6
(protocol)

30%
CT
가
(Fig. 1).

IDET
nubain(nalbu-
phine HCL) 5mg
RITA Model 30 Electrosurgical
Device(15cm length)(" RITA ") tip
가 4 retractable curved electrodes 3

가 MRI T2
1 CT
가
가
가 lidocaine



Fig. 1. Post-discography CT showing a posterior radial fissuring of the annulus (arrow).

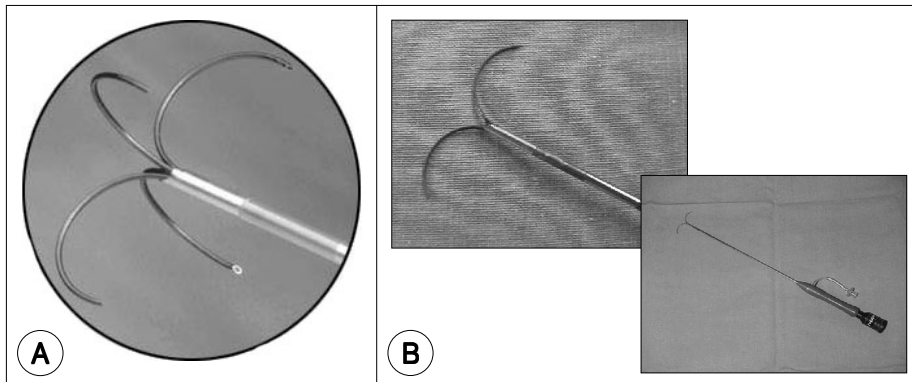


Fig. 2. Photograph showing RITA Model 30 Electrosurgical device, original four retractable curved electrodes(A), and two retractable curved electrodes adjusted for IDET(B).

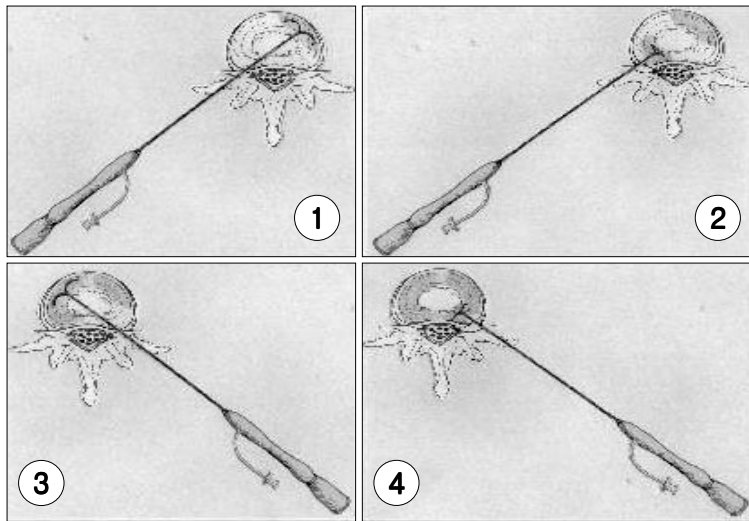


Fig. 3. Diagram depicting the procedures of IDET in the left(1, 2) and the right(3, 4) sides.

Table 1. Clinical summary

Patient number	Age	Sex	Operation level	Intradiscal pressure*	Disc height loss	Outcome†	Interval‡	Newly developed symptom
1	40	F	L4-5 L5-S1	Low Low	No No	VS	15	
2	65	M	L3-4 L4-5	Low Low	No <30%	VS	2	
3	60	F	L3-4 L4-5	Low Low	No No	VS	2	
4	57	M	L4-5	Low	No	SS	7	
5	32	M	L4-5	Low	No	VS	7	
6	56	F	L3-4 L4-5	Low Low	>30% >30%	SD		
7	55	M	L4-5 L5-S1	High Low	No No	SD		Radiating Rt. leg pain
8	33	M	L4-5 L5-S1	Low Low	No No	SS	30	
9	36	M	L2-3 L4-5	Low Low	>30% No	VD		Radiating Lt. leg pain
10	31	M	L4-5	Low	No	SS	60	
11	35	M	L2-3	High	No	VD		
12	37	M	L4-5 L5-S1	Low Low	No No	SS	60	
13	73	M	L3-4 L4-5	Low Low	No No	SS	60	
14	52	F	L2-3 L4-5	Low Low	No >30%	SD		
15	39	F	L4-5	Low	No	SS	7	
16	64	F	L2-3 L4-5	Low High	No No	SD		
17§	54	F	L4-5	Low	No	VD		Severe back pain & radiating Rt. leg pain

* : intradiscal pressure : subjective resistance during dye injection in discography

† : VS : very satisfied, SS : somewhat satisfied, SD : somewhat dissatisfied, VD : very dissatisfied

‡ : Interval : interval(day) between management and the beginning of patient satisfaction

§ : The case of epidural abscess

arm
 7~8cm
 C-arm
 가
 15
 50W, 490KHz,
 (Fig. 3).

2
 (Fig. 2). C -
 resistance ' 14
 ' high resistance ' 3 , ' low
 resistance ' 3
 (100%) 3
 10
 2 가 2 , 1
 3 , 2 가 1 ,
 2 1 , 1
 3 2
 2
 90
 7 3
 1
 가

고 찰

가
 CT
 가
 ' very satisfied ', ' somewhat satisfied ', ' somewhat
 dissatisfied ', ' very dissatisfied '
 가

2
 29)
 가
 1/3
 (small unmyelinated nerve fiber)
 4). 가
 가 (shear stress)¹⁰⁾
 3)4)
 phospholipase A2(PLA2)⁶⁾,
 nitrous oxide¹¹⁾, pH¹²⁾, metalloproteinase¹¹⁾
 12)18)

결 과

39 가 21 , 가 18 .
 21 73 50.2 .
 20
 54 level
 2 level 19 .
 3 가
 17 (105)
 . 17 10 (very satisfied
 6 , somewhat satisfied 4) , 58.8%
 7 (somewhat dissatisfied 4 , very dissatis-
 fied 3) , 41.2% (Table 1).
 17 4
 가 30%
 가 3 , 30% 가 1 30% 3
 1998 Derby⁵⁾ 가

SI-
 uijter ²³⁾ pin - point RF current probe
 50% Houpt ⁹⁾
 RF probe
 42 ²⁵⁾
 , Saal ¹⁹⁾ RF probe
 가

(“ ”)⁷⁾²⁸⁾ 가

7 12 71~ IDET 가
80% 20)21), 40~90% ‘ high resistance ’
2)13)14) 3 IDET
3~4 58.8% IDET
가 , Model 7)8)가
30 electro-surgical device Derby가 2 7) 60 가
가 가 가 가
2 3 1 IDET 27) 가
IDET 가 30% 3
가 RITA IDET
(90) 가
C-arm IDET 가
10 가 19) RITA 3~4 IDET
가 RITA 가
IDET 가

결 론

- : 2000 12 12
- : 2001 5 8
- :
137 - 040 505
가
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