

2mm 내시경을 이용한 수장부 다한증의 제한적 교감신경절 차단술*

정 득 채 · 조 하 영

= Abstract =

Limited Sympathicotomy Using 2mm Endoscope in Palmar Hyperhidrosis

Deuk-Chae Jeong, M.D., Ha-Young Cho, M.D.

Department of Neurosurgery, School of Medicine, Chosun University, Gwangju, Korea

Objective : Thoracoscopic T2 sympathicotomy had been performed as a simple and effective method in treating palmar hyperhidrosis, but some patients are not satisfied with the result of sympathicotomy due to compensatory hyperhidrosis. Therefore, a more limited T2 sympathicotomy using 2mm endoscope was introduced. We made a comparison between conventional T2 sympathicotomy and limited T2 sympathicotomy on operative results and compensatory hyperhidrosis.

Material and Method : From January 1998 to April 2000, 56 patients were treated by video assisted endoscopic thoracic sympathicotomy. Thirty patients of these underwent T2 sympathicotomy(Group A), and the remainders underwent limited T2 sympathicotomy(Group B). The limited T2 sympathicotomy is coagulation of the interganglionic fibers of T2 sympathetic ganglion on T2 rib head. The comparative analysis between two groups was based on the medical records and telephone interview results.

Result : All patients were treated for excessive sweating on palms with 2mm endoscopic sympathicotomy. There were no mortalities, life-threatening complications except one recurrent patient who was treated successfully with re-operation(endoscopic sympathicotomy). Compensatory hyperhidrosis was common in group A. An individual satisfactory rate for the operations was higher in group B than in group A.

Conclusion : The limited T2 sympathicotomy considered to be a more effective and less complicated method than the T2 sympathicotomy for the treatment of palmar hyperhidrosis.

KEY WORDS : Palmar hyperhidrosis · Limited sympathicotomy · 2mm endoscope.

서 론

(essential hyperhidrosis)

(pheochromocytoma),

1999

1920

2mm

(sympathectomy) 가

가 6). 1942 Hughes⁴⁾
(interganglionic fiber)
(sympathicotomy) 2).

가

8)17).

가

2mm

2
(Group A) , 2
(Group B)

대상 및 방법

1998 1 2000 4
2mm
58
2 56
1998 1 1999 2
30 2 (rib head)
2
, 3 2
2 (T2 sympathicotomy)
(Group A), 1999 3 2000 4
26 2
2
2 (li-
mited upper T2 sympathicotomy) (Group B).
(double lumen endotracheal tube)
90
가
10 15 (elevation) (Lung apex)
가 (collapse)
()

(mid - axillary line)

3mm

6

가

bovie

가

X-

7

23

A

B

결 과

1998 1 2000 4
2mm (Fig. 1)
56 2
(2)
(3) 30
(A) 22.4 , 가 17 ,
가 13 (M : F=1.3 : 1) 가 2
(B) 26 , 20.5 ,
가 15 , 가 11 (M : F=1.4 : 1) 가

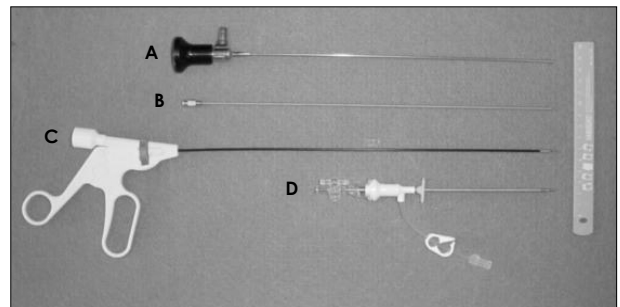


Fig. 1. Instruments for a successful thoracoscopic sympathicotomy. A : 2mm endoscope. B : 2mm suction tip. C : Electric scissors. D : 2mm trocar.

Table 1. Patient profiles and operative results

	Group A	Group B
Patient number	30	26
Sex ratio(M : F)	17 : 13(1.3 : 1)	15 : 11(1.4 : 1)
Mean age	22.4 ± 5.6	23.5 ± 4.8
Operation time(min)	75.3 ± 14.7	69.5 ± 14.3
Postoperative stay(day)	2.0 ± 0.4	1.8 ± 0.6
Symptom improvement	All improved	All improved

Table 2. Postoperative complications

	Group A	Group B
Chest pain	4	3
Pneumothorax*	0	0
Horner's syndrome	0	0
Facial anhidrosis	0	0
Recurrence	0	1

* : needs thoracostomy

31 (subcutaneous emphysema) 가 10 , A 75.3 ± 14.7 , B 69.5 ± 14.3 (Table 1).

(Table 2). A B 가 B 1

7 23 A 16 , B 9 가 , , , , (mild) 가 A 12 (40.0%), B 7 (26.9%), (embarrassing) A 3 (10.0%), B 2 (7.7%) , (disabling)가 A 1 (3.3%) B (Table 3).

B 가 A ,

Table 3. Incidence and severity of compensatory hyperhidrosis

	Group A	Group B
Absence	14(46.7%)*	17(65.4%)*
Mild	12(40.0%)	7(26.9%)
Embarrassing	3(10.0%)	2(7.7%)
Disabling	1(3.3%)	0(0%)

* : significant in statistical analysis(p<0.005)

Table 4. Patient's satisfactory rate for the operative results

	Group A	Group B
Fully satisfied	22(73.3%)	20(76.9%)
Satisfied	8(26.7%)	6(23.1%)
Partially satisfied	2(6.7%)	0
Poor	0	0

(p<0.005) B 가 (mild) 가 (fully satisfied) A 22 (73.3%), B 20 (76.9%) , (satisfied) A 8 (26.7%), B 6 (23.1%) , (partially satisfied) A 2 (6.7%), B 가 (poor)

고 찰 11) 가 2)13)18). 2 8 (lateral horn) 가 , 2 5 5) , (preganglionic fiber) 가 (stellate ganglion) 2 가 가 2 3 2

2mm

fiber 가 Kuntz
18)

1 Kuntz fiber가 가
2cm 2mm

2 (key ganglion)

2, 3, 4
1942 Hyndman & Wolkin, Love & Jurgin

2 12) 2 3 2

2 1998 1
2

15) 가
2 (Key ganglion) 2 2

48 68% 8)17) 2 (paradoxical hyper-

hidrosis) 가 ,

2, 3 18% 36% (anhi- 1998 1

hidrosis) 가 , 36% , 1999 2 2

9)10) 1) 2 (Limited upper
T2 sympathicotomy) 2

(T2 sympathicotomy)
2) 2

(Gustatory sweating), (Phantom sweating), 2
(Hyperemia,),

가 , 가 • : 2001 5 4
• : 2001 7 25
• : 501 - 717 588

3)14) 2 : 062) 220 - 3120, 3170, 3126
: 062) 227 - 4575
E - mail : dc - jeong@hanmail.net
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