

이신경외과 수술 후 이명의 변화

이원상¹ · 김창우² · 신유섭¹ · 김희남¹

Change of the Tinnitus after Neurotological Surgery

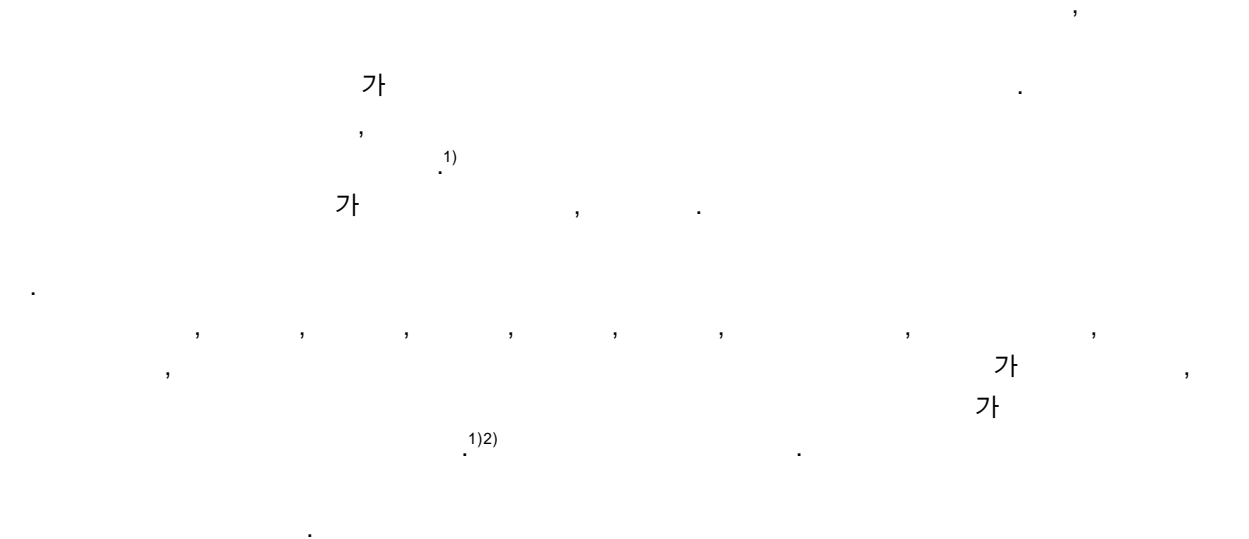
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ABSTRACT

Background and Objectives : Tinnitus is a common and often very disturbing symptom. Current tinnitus treatment strategies emphasize multimodality therapy, including masking, pharmacological, and psychological treatment. In this study, we aimed to evaluate the change in the tinnitus symptoms following a neurotological surgery. **Subjects and Method** : A total of one hundred thirty one patients who visited the tinnitus clinic of Severance Hospital complaining of severe tinnitus between 1988 and 2002 were included in this study. They were all performed surgical procedures : there were 80 cases of chemical labyrinthectomy, 38 cases of cochlear implant, 11 cases of vestibular neurectomy, and 2 cases of cochlear neurectomy. **Results** : Statistical analysis revealed a significant reduction in the tinnitus intensity : in cochlear implant, 82% were improved ; in chemical labyrinthectomy, 44% were improved ; in vestibular neurectomy, 91% were improved, and all cases of cochlear neurectomy were improved. **Conclusion** : Surgical procedures such as cochlear implant, chemical labyrinthectomy, vestibular neurectomy are effective modalities in the management of severe tinnitus within limited situation. (Korean J Otolaryngol 2005;48:289-92)

KEY WORDS : Tinnitus · Operative procedure.



:2004 3 23 / :2004 10 2
: , 120 - 749 134

: (02) 361 - 8477, 8470 · : (02) 393 - 0580 1988 10 2002 9
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이명에 대한 수술의 효과

Table 1. Number of patients classified according to surgical technique

Name of surgery	No. of patients
Cochlear implant	38
Chemical labyrinthectomy	80
Vestibular neurectomy	11
Cochlear neurectomy	1
Total	131

131
 ,
 ,
 38 , 80 ,
 11 , 1
 가 (Table 1).

4%
 , 2 18% 9
 , 3 , 6 6 , 1
 , 0.5, 1, 2, 3 kHz
 5)
 23 73 (34.4 ± 11.7) ,
 23 75 (49.9 ± 10.3) , 18
 70 (45.3 ± 15.4)
 17.2 ± 9.4 (11~53) ,
 18.1 ± 12.3 (10~62) , 20.4 가 79
 ± 4.3 (16~26) 가 51 (64%)
 , 12 (15%), 16 (21%)
 가 7 (±3)
 ,
 86 61 (71%)
 , 13 (15%)
 , 9 (10%)
 2 (2%) (Fig. 1).

가
 , 0 “ ” 10
 “ ”
 가 3)4)
 가
 , 4
 , , , 4

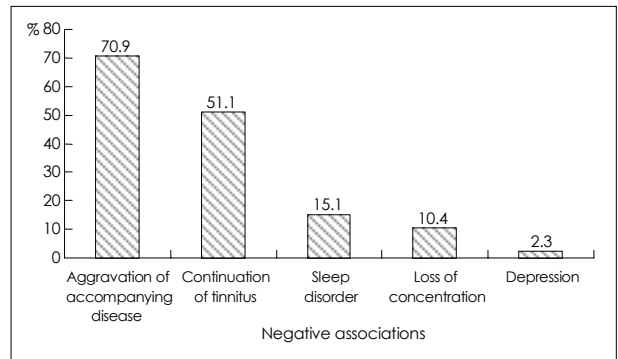


Fig. 1. Negative feelings associated with tinnitus described by patients (N=86, multiple choice).

가
 ,
 , 2 18% 9
 , 3 , 6 6 , 1
 , 0.5, 1, 2, 3 kHz
 5)
 23 73 (34.4 ± 11.7) ,
 23 75 (49.9 ± 10.3) , 18
 70 (45.3 ± 15.4)
 17.2 ± 9.4 (11~53) ,
 18.1 ± 12.3 (10~62) , 20.4 가 79
 ± 4.3 (16~26) 가 51 (64%)
 , 12 (15%), 16 (21%)
 가 7 (±3)
 ,
 86 61 (71%)
 , 13 (15%)
 , 9 (10%)
 2 (2%) (Fig. 1).
 38 31 (82%)
 가 , 11
 80 35 (44%) , 11
 10 (91%) ,
 2 가
 ,
 (32%), 11 (14%),
 8 (73%)

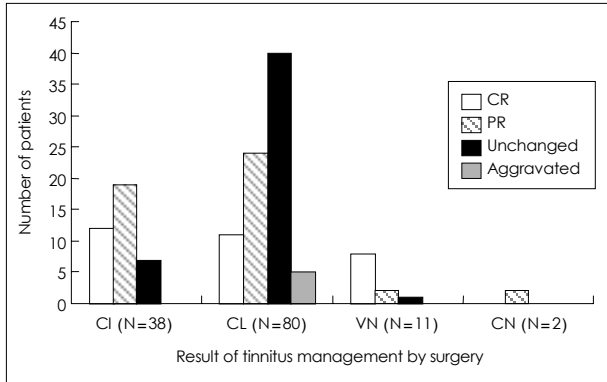


Fig. 2. Change of tinnitus after neurotological operation. CI : cochlear implant, CL : chemical labyrinthectomy, VN : vestibular neurectomy, CN : cochlear neurectomy, CR : complete relief, PR : partial relief.

가 ,
5 (6%) 가 (Fig. 2).

1
, 2
8 (10%)

10 dB 가
10 dB 가 5 1

30% 가 , 1%
5% 가 , 6)

가 , 8 (10%)

House 가 8 (27%) 29
15 (52%) , 8) Souliere Jr.

1941 Dandy가 401
, 50% , 9) 30% , 43% 54%
Pulec 101 (66.9%) 151 , 48% 30%

가 , 15) 60 가
50% 42%

10) Silverstein
가
76% (serviceable hearing)
35%

11)

Baguley
1,318 37.2%
16.4% 91% 12) 73%

가 ,
Perez 65
34 (52.3%) 15
13)

11 73.3% 가
14) 44% 가
streptomycin 가

5 (6%)
, 8 (10%)

House 가 8 (27%) 29
15 (52%) , 8) Souliere Jr.

9) 30% , 43% 54%
, 48% 30%
가 , 15) 60 가
50% 42%

연구자	대상	비율	비고
Jastreboff	16)	82%	(habitua-
가	17)		tion of reaction)
가	16)		
가			
가			
가			
가			
가			

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