

## 편도 및 아데노이드 절제술 후 삼출성 중이염의 임상경과

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### The Clinical Outcome of Otitis Media with Effusion in Adenoidectomy and Tonsillectomy

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#### —ABSTRACT—

**Background and Objectives** : There have been some previous reports that adenoidectomy was a useful procedure for the correction of medically resistant otitis media with effusion. The aim of this study was to show the outcome of otitis media with effusion after adenoidectomy and tonsillectomy, and to compare these results with those of previous reports. **Materials and Methods** : This study was designed as a prospective, randomized trial. The study included 51 children (89 ears) with otitis media with effusion who visited a hospital for adenoidectomy and tonsillectomy during the period of April 2003 through June 2004. All children underwent adenoidectomy and tonsillectomy. Impedance audiometry and otoscopic examination were also performed before and after the operation. The children were followed 1 wk, 2 wks, and 4 wks and then monthly after the operation until otitis media with effusion was improved. **Results** : In this study, otitis media with effusion improved after adenoidectomy and tonsillectomy in 57.3% of the cases. The duration from operation to improvement of otitis media with effusion ranged from 6 days postoperative to 11 months postoperative (mean duration : 7.2 wk). The improvement rate of otitis media with effusion was lower in the children, whose were associated with chronic sinusitis and had been previous episodes of effusion and were not performed sinus puncture procedure. But the difference in each one of above variates was not statistically significant. **Conclusion** : Our study demonstrated a significant improvement of otitis media with effusion after adenoidectomy and tonsillectomy, and the result is similar to those of other comparable studies of the effect of adenoidectomy on otitis media with effusion. (J Clinical Otolaryngol 2005; 16:119-123)

**KEY WORDS** : Otitis media with effusion · Adenoidectomy · Tonsillectomy.

## 서 론

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가

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: 2005 5 20

: , 609 - 728

374 - 75

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가<sup>1)2)</sup> type B

가 Water's view

3

type A type B type C 가

**대상 및 방법**

2003 4 2004 6 SAS version 8.1

, p value가 0.01

399 가 3

61

10 51

**결 과**

가 40dB 가 24 1.13 : 1 가 27 , (Table 1).

type B 89 35 type A

, 16 type C , 38 가

89 1 , 2 , 4

57.3% (Table 2).

G.S.I. 33 version middle ear 6 11 7.2

analyzer set model type A type

(peak compli- C 51 3

ance) -100~ +100 mmH2O 37 73% 2/3 3

type A, -100 mmH2O (Table 2).

type C 46

type B 23 50%

**Table 1.** Distribution of age and sex

Sex \ Age	2-3	3-4	4-5	5-6	6-7	7-8	8-9	10-11	11-12	Total
Female	1	1	2	5	6	4	2	2	1	24
Male	1	2	2	5	8	5	2	2	0	27
Total	2	3	4	10	14	9	4	4	1	51

43                      28                      65%                      11                      45%                      (p=0.0621) (Table 4).

(p=0.0942) (Table 3).                      51                      49%                      46                      35                      38                      68%

51%                      35                      (Table 5).                      (p=0,0646)

**Table 2.** Duration from operation to improvement of otitis media with effusion

Follow-up period	Postope-raive		Type-change		Total	Rate of postoperative improvement
	B	A	B	C		
under 1 wk	2		1		3	0.034
1 wk - 2 wk	3		1		4	0.045
2 wk - 4 wk	6		3		9	0.101
- 2 month	9		4		13	0.146
- 3 month	6		2		8	0.090
- 4 month	2		2		4	0.045
- 5 month	2		1		3	0.034
- 6 month	1		0		1	0.011
- 7 month	1		1		2	0.022
- 8 month	1		0		1	0.011
- 9 month	1		0		1	0.011
- 10 month	0		1		1	0.011
- 11 month	1		0		1	0.011
Total	35		16		51	0.573

**Table 3.** Change of tympanogram in association with chronic sinusitis (p=0.0942)

Chronic sinusitis	Preoperative type b	Postoperative			Rate of postoperative improvement
		Type A	Type B	Type C	
Yes	46	16	23	7	0.50
No	43	19	15	9	0.65

**Table 4.** Change of tympanogram in the children with chronic sinusitis whose were performed sinus puncture procedure (p=0.0621)

Chronic sinusitis	Preoperative type b	Postoperative			Rate of postoperative improvement
		Type A	Type B	Type C	
yes	35	13	17	5	0.51
no	11	3	6	2	0.45

**Table 5.** Change of tympanogram in associated with previous episodes of otitis media with effusion (p=0.0646)

Chronic sinusitis	Preoperative type b	Postoperative			Rate of postoperative improvement
		Type A	Type B	Type C	
yes	51	18	26	7	0.49
no	38	17	12	9	0.68

고 찰

6  
 가  
 Marshak Neriah<sup>11)</sup> 2  
 , Widemar<sup>12)</sup>  
 2  
 , Ronbinson<sup>13)</sup> 21  
 가  
 가  
 89  
 type B 89 51 (57.3%)  
 , Blustone<sup>4)</sup> type A type C , 38 (42.7%)  
 가 type B  
 8~10 36 type A type C  
 15 (42%)  
 Stroyer<sup>5)</sup>  
 2~4 type B 6 11  
 126 53 (42%), type C 19 13 (68%)가  
 Maw<sup>6)</sup> Stroyer<sup>5)</sup> Blustone<sup>4)</sup>  
 7.2  
 ,  
 Lemon<sup>14)</sup>  
 20%  
 Draper<sup>15)</sup> 가 6 : 4  
 27 : 24 1.13 : 1  
 Gates<sup>7)</sup>  
 ,  
 , Paradise<sup>8)</sup> Fujita<sup>16)</sup>  
 , Coyte<sup>9)</sup> Honjio<sup>17)</sup> 73%  
 가  
 가 84%  
 가 14%  
 ,  
 18)  
 Roydhouse<sup>10)</sup>

가 0.0942

65%

45%

51%

p value가 0.0621

Maw 6)

Khader 19)

가 49%

가 68%

p value가 0.0646

결론

3

가 type B type A type

89 51 57.3%

가

가

가

가

가

중심 단어 :

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