

## 구개골 수직판 제거술을 통한 상악동 자연공 확장술

윤 주 현 · 홍 정 표

Creation of Large Maxillary Sinus Ostium : A Modified Antrostomy  
Technique Removing Perpendicular Plate of Palatine  
Bone for Improved Patency

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## - ABSTRACT -

**Background and Objectives :** Since the concept of functional sinus surgery and optical aids such as endoscopes and surgical microscopes have been introduced, more precise excision of pathologic lesions under a clear view has become popular in the treatment of chronic maxillary sinusitis. Although middle meatal antrostomy (MMA) is reported to be more effective than inferior meatal antrostomy, spontaneous closure rate of antrostomy opening is still high. This article aims to introduce our modified method of MMA capable of creating a considerably large antrostomy opening and to report our results for the patency of a surgically created maxillary sinus opening. **Patients and Method :** A total of 50 procedures were performed in 46 patients with severe maxillary sinusitis. We applied our modified antrostomy technique removing palatine bone for improved patency. **Results :** Our procedure proved very effective in maintaining the patency of the large antrostomy opening in 100% of cases. During the procedure, arterial bleeding, which was controlled without difficulty by electrocautery, was noted in four cases. **Conclusion :** Our modified MMA technique can be considered as an effective alternative surgical procedure for maintaining large MMA openings. (*J Clinical Otolaryngol* 2000;11:73-77)

**KEY WORDS :** Chronic maxillary sinusitis · Middle meatal antrostomy.

## 서 론

가 가

(nasoantral window)

Caldwell - Luc

가

가

: 1999 9 12

: 2000 5 12

: , 120 - 140

134

가 가

(inferior meatal antrostomy)

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(middle

meatal anrostomy)

2 . Mann  
29% ,<sup>1)</sup> Lund 27  
45% ,<sup>2)</sup> Reck

수 술 방 법

25% 가  
<sup>3)</sup> 가  
David  
6%  
90  
4 (4.4%)  
<sup>4)</sup> Stankiewicz 가  
<sup>5)</sup>

1 : 100,000

가 (Park's Retractor, Nagashima Co., Japan)

30 °

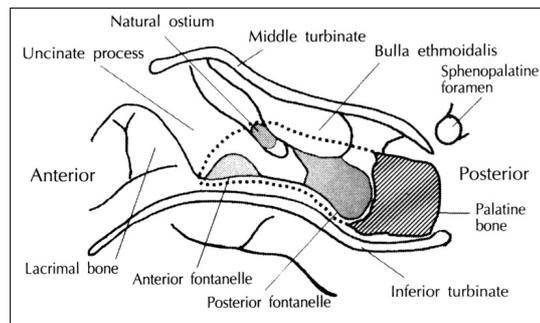


Fig. 1. The medial wall of the maxillary sinus. Hatched area indicates the portion of palatine bone removed by our modified middle meatal anrostomy.

가 (Park's self-retaining retractor)

가

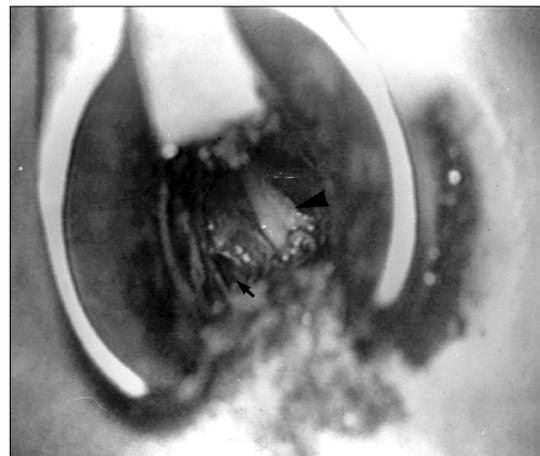
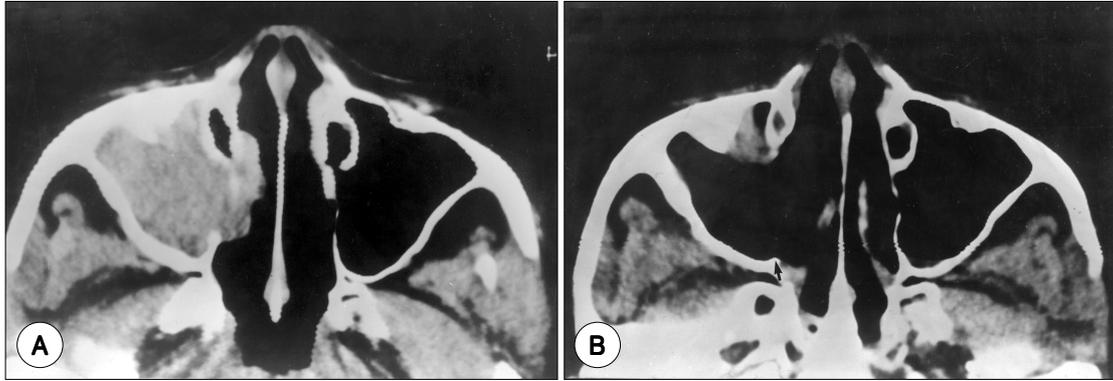
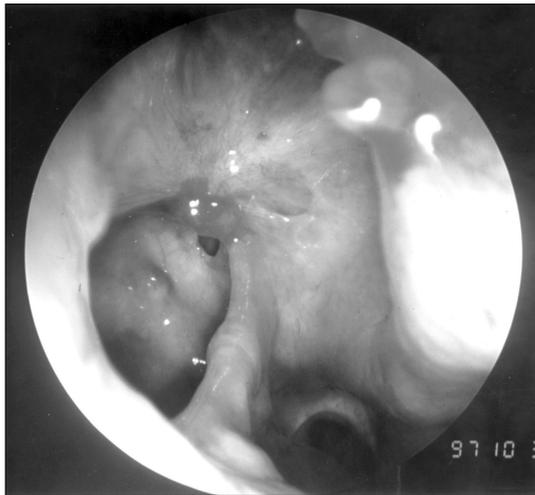


Fig. 2. Surgical view of the medial wall of the right maxillary sinus. A surgically created ostium (arrow), fontanelle, and palatine bone (arrowhead) are demonstrated.

가 가



**Fig. 3.** Preoperative and postoperative computed tomography scans in the case that underwent modified middle meatal antrostomy. A. Preoperative finding shows total hazziness of the right maxillary sinus. B. Postoperative finding demonstrates well-aerated right maxillary sinus and completely removed palatine bone (arrow) 12 months after modified middle meatal antrostomy.



**Fig. 4.** Endoscopic finding of a surgically created opening in a case 3 weeks after modified middle meatal antrostomy.

forceps  
 , back - bi -  
 ting forceps  
 , sickle knife  
 1/3  
 (ground lamella)  
 (posterior bony  
 portion)  
 . Cutting for -  
 ceps  
 (Figs. 1  
 and 2).

70°  
 , Messerklinger Wi -  
 gand . mm 3 4  
 가  
 결과  
 . curette up - ward 46 (



가 . merocel

중심 단어 :

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