

하비갑개의 수술적 치료에 관한 고찰

이 정 권

A Review of Surgical Treatment of Inferior Turbinates

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서 론

가

, 1895 Jones가
(turbinotomy). Mabry¹⁾ Ophir²⁾가
가

1922 Bourgeois가 linear

cautery

가

, su -

bmucous diathermy, cryosurgery, laser surgery
(Fig. 1).

Caldwell - Luc

10

가

가

: , 120 - 752

134

가 가

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만성 코막힘의 분류

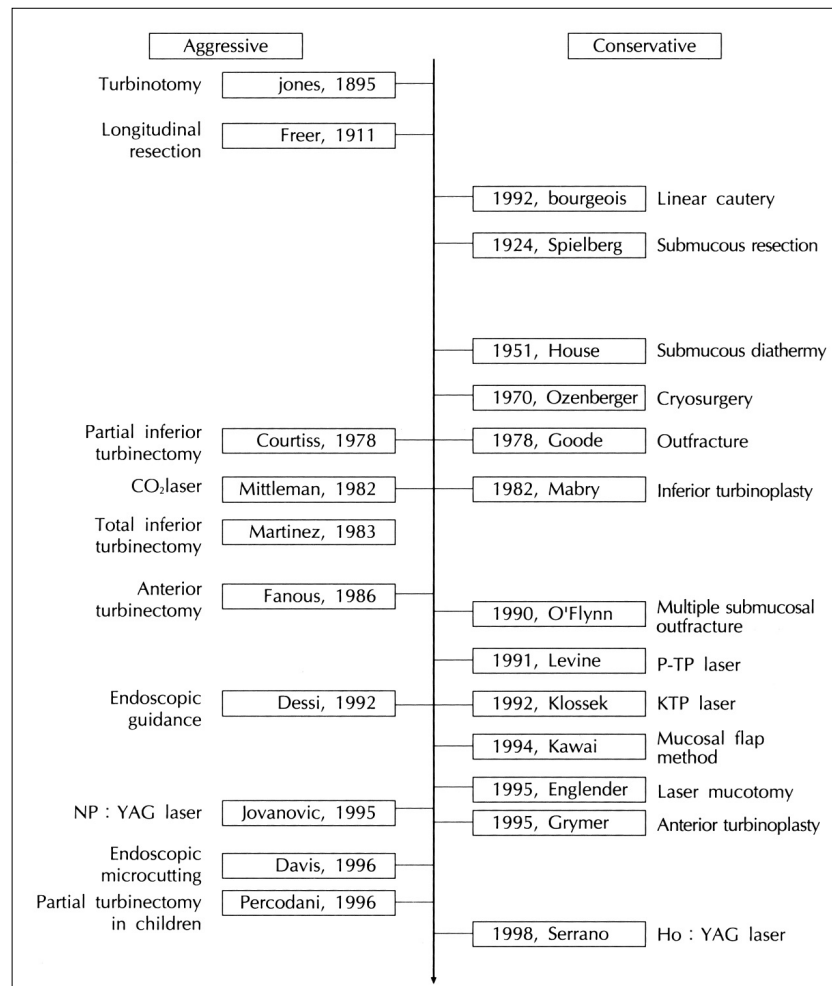


Fig. 1. History of turbinate surgery.¹⁴⁻²²⁾

가 ,
(concha cell)
가
가
(rhinitis sicca)
가
가
(Fig. 2).
만성 코막힘에 대한 치료습관
(Table 1), 가

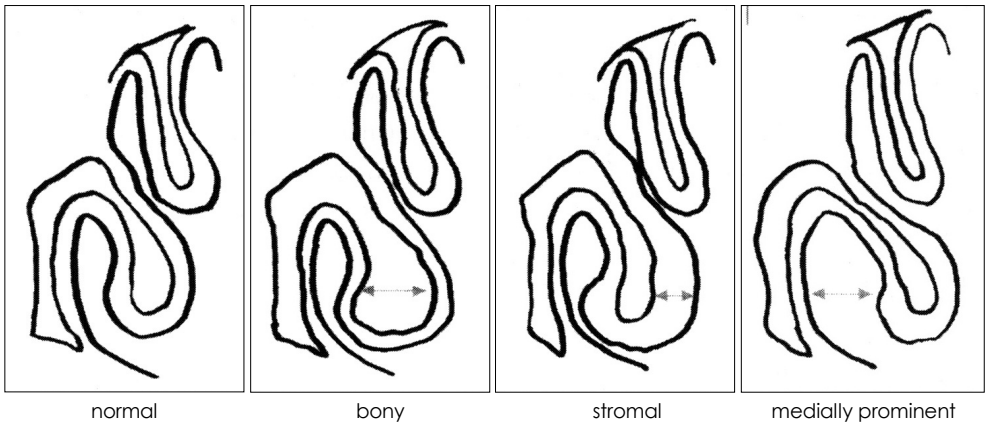


Fig. 2. Types of inferior turbinate hypertrophy.

Table 1. Medical management of nasal obstruction
Give antihistamine and decongestants
Withdraw habitual nose drops
Switch preparations producing turbinate engorgement
Rule out infection or hormonal disorders
Give corticosteroid intranasally or systemically

하비갑개 수술의 적응증

가 (A).

가

Cryotherapy (Ozenberger, 1970)⁶⁾

가.

가 가

(B).

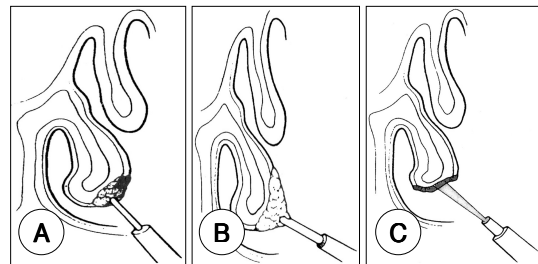
하비갑개 수술의 종류

Laser Vaporization (Mittleman, 1982)⁷⁾

가

가 가

(C).



가

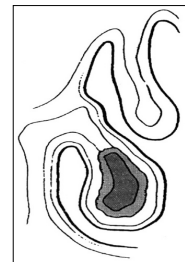
Crushing, Lateral fracture (Goode, 1978)³⁾

가

(A).

Submucosal resection (Spielberg, 1924)⁸⁾

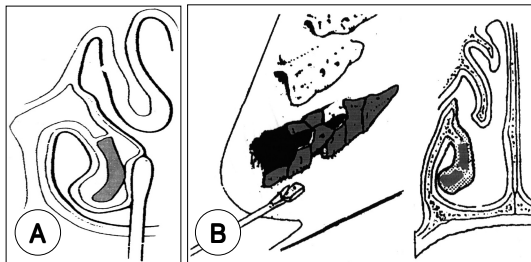
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Multiple submucosal outfracture (O' Flynn, 1990)⁴⁾

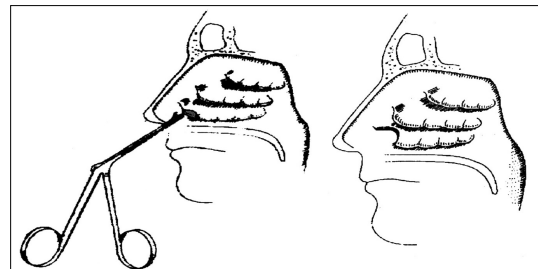
가

(B).



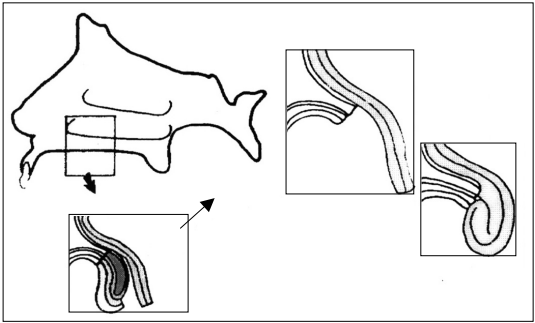
Anterior turbinectomy (Fanous, 1986)⁹⁾

2 3



Cauterization (Bourgeois, 1922)⁵⁾

Anterior turbinoplasty (Grymer, 1995)¹⁰⁾



Partial resection (Courtiss, 1978)¹¹⁾

(A).

Turbinoplasty (Mabry, 1982)¹²⁾

(B).

Total resection (Martinez, 1983)¹³⁾

(C).

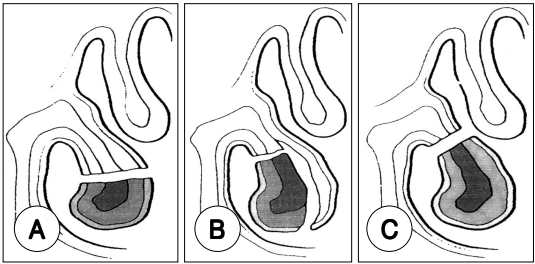


Table 2

Table 2. Success rates of turbinate surgery

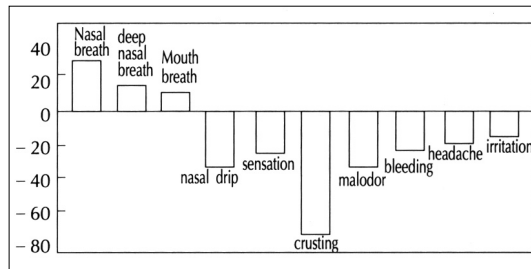
Type	Success rate (%)	Follow-up (years)	Numbers	Reference
Turbinectomy				
Total	82	12.3	186	Ophir, 1992
Total	27	35	18	Moore, 1985 ²³⁾
Partial	92	69	76	Courtiss, 1983 ²⁴⁾
Turbinectomy	75	35	40	Mabry, 1988 ²⁵⁾
Submucosal diathermy	60	0.52	60	Simpson, 1958 ²⁶⁾
Laser surgery	77	0.55	70	Lippert, 1998 ²⁷⁾

Table 3. Types of surgery according to indication

Author	Year	Procedure	Indication
Ophir	1985	Total turbinectomy	Chronic nasal obstruction
Moore	1985	Total turbinectomy	Chronic nasal obstruction
Selkin ²⁸⁾	1985	Laser turbinectomy	Nasal airway obstruction
Fanous	1986	Anterior turbinectomy	Septal deviation, AR*
Mabry	1988	Inferior turbinoplasty	Enlarged inferior turbinate
Elwany	1990	Inferior turbinectomy	Chronic non-allergic rhinitis
Kawai	1994	Submucosal turbinectomy	Hypertrophied turbinate
Percodani	1996	Partial turbinectomy	Persistent nasal obstruction
Grymer	1996	Inferior turbinoplasty	Chronic nasal obstruction
Lippert	1998	Laser turbinectomy	Perennial allergy, VR**

*Allergic rhinitis, **Vasomotor rhinitis

Table 4. Result of total inferior turbinectomy questionnaire. Perpendicular axis shows percentage of complaints after surgery. Negative values mean the percentage of negative symptoms and positive values mean those of positive symptoms (Moore, 1985)¹⁴⁾



11%

ozena

가

맺 음 말

가 , 가

가

가

가

가

Ophir

가

가

Table 2

가 60

92%

Moore

27%

3 5

40

Table 4

11%

27%

가 11%

가

가 30%

55.5%

1)

88.8% 가

16%

89% ,

5%

2)

가

39%

sore

3)

가

throat 가 가

- 4) 3) 가 가
- 5) 가
- 6) 가

중심 단어 :

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