

악성변화를 동반한 반전성 유두종의 임상적 고찰

박성국 · 조홍욱 · 박춘근

A Clinical Study of Squamous Cell Carcinoma Arising in Inverted Papilloma

Seong-Kook Park, MD, Hong-Wook Cho, MD and Choon-Keun Park, MD

Department of Otolaryngology-Head and Neck Surgery, College of Medicine, Inje University,
Pusan Paik Hospital, Pusan, Korea

- ABSTRACT -

Background and Objectives : Inverted Papilloma is a benign neoplastic lesion which shows high recurrence rate and possibility of association with malignancy. Squamous cell carcinoma arising in inverted papilloma has been reported in the literature. But most reported series have very few patients with this disease. This report was conducted to investigate clinical characteristics and treatment outcome of squamous cell carcinoma arising in inverted papilloma. **Materials and Methods :** We reviewed clinical data of eight patients who have been treated from January 1982 to March 1998 for squamous cell carcinoma arising in inverted papilloma. **Results :** Synchronous tumor was 6 cases and metachronous tumor was 2 cases. The most common presenting symptom was unilateral nasal obstruction. Others were nasal bleeding, rhinorrhea, and periorbital swelling with eyeball deviation. Stage at diagnosis was according to modified Kadish staging system, 5 cases of B stage, 1 of C stage and 2 of D stage. All patients were treated with surgical excision and postoperative radiation therapy was done in 6 cases. In 2 cases, postoperative radiation therapy was not performed because they refused radiation therapy. In case of stage B, all lived more than 3 years and prognosis was better than C stage. **Conclusion :** We suggest that modified Kadish staging system is more helpful than maxillary carcinoma staging system in prediction of prognosis of squamous cell carcinoma arising in inverted papilloma. We recommend wide surgical excision in squamous cell carcinoma and long term follow up period after inverted papilloma operation due to the possibility of metachronous. (J Clinical Otolaryngol 1999;10:66-70)

KEY WORDS : Inverted papilloma · Squamous cell carcinoma · Modified Kadish staging system.

서 론

가

: 1999 1 4
: 1999 5 15
: 614 - 735
165
: (051) 890 - 6375 · : (051) 892 - 3831
E - mail : sinus4@chollian.net

.¹⁾
0.5 4%²⁾
5% 15%³⁾ .
(clear cell carcinoma),

:

가⁴⁾

17 8

Table 1. Stage at Presentation (modified Kadish staging system)

Stage A : Limited to nasal cavity
Stage B : Limited to nasal cavity and paranasal sinuses
Stage C : Extending beyond paranasal sinuses, resectable
Stage D : Extending beyond paranasal sinuses, unresectable

재료 및 방법

치료 방법 및 성적 (Table 2)

1982 1 1998 9

2

6

37 8 B 5 3

C 2 9 D

가 6 , 가 2

4

38 70 51

, 8 3

고 찰

Kadish
(Table 1).

syn -
chronus metachronus . Synchronous
tumor ca -
rcinoma in situ
metachronus

결 과

발생빈도

37 8 21.6% , synchronous 6 , me -
tachronus 2 . Metachronus
2 6 , 8 1 5

carcinoma in situ

⁴⁾
10.3%(3/29), ⁶⁾ 10.5%(2/19), ⁷⁾
9.7%(3/31) , 5 53%
⁸⁾ 37 8 21.6%

임상증상

8 7 (87.5%) 가
, 4 , 3 ,
1 . 3
10 (Table 2).

6 synchronous 2 metachronus .
Lesperance Esclamado⁸⁾
12 , 2 67 , Benninger
⁹⁾ 61 ,
6 , 2 51 .

병 기

Kadish B 5 , C 1 , D 2
(Table 2).

ado⁸⁾
Lesperance Esclam -
Kamal

Table 2. Overall outlook of patients

Case No.	Sex/ Age	Previous operation	Bx.	Site of involvement	Treatment	Pathology/ Recurrence	Follow up	Type	Stage	Onset (Duration)	Symptoms
1	Male/46	Nasal Polypectomy (1980)	(-)	Nasal cavity, Maxillary sinus, Ethmoid sinus (1982)	Cw-Luc's operation with intranasal procedure (Feb. 1982), Chemotherapy radiation therapy	IP-SCC	Jan. 1995	Syn	B	2 Y ago	Nasal obstruction, Rhinorrhea
2	Male/45	Cw-Luc's operation (1962), Nasal polypectomy with INE (1977)	(-)	Nasal cavity, Maxillary antrium, Ethmoid sinus, Orbit (1988)	Intranasal procedure (Oct. 1982), Total maxillectomy with orbit extension (Oct. 1988), Chemotherapy + Radiation therapy	IP IP-SCC	Death (Jun. 1989)		C	4 Y ago	Nasal Obstruction, Rhinorrhea
3	Female/60	(-)	IP	Nasal cavity, Maxillary sinus (1986)	Cw-Luc's operation with intranasal procedure (Jul. 1986), Chemotherapy + Radiation therapy intranasal procedure (Mar. 1995)	SCC	Sep. 1996	Syn	B	3 M ago	Nasal bleeding, Nasal obstruction
4	Female/40	Nasal polypectomy (1983)	IP	Nasal cavity, Maxillary sinus, Ethmoid sinus (1987)	Cw-Luc's operation with intranasal procedure (Sep. 1987), Medial maxillectomy (Sep. 1987), Chemotherapy + Radiation therapy	IP-SCC IP-SCC	Death (Oct. 1990)	Syn	B	3 M ago	Nasal bleeding, Nasal obstruction
5	Male/70	Nasal biopsy (1987)	IP	Nasal cavity, Maxillary sinus, Ethmoid sinus, Sphenoid sinus, Nasopharynx, Parapharyngeal space, Temporal and pterygopalatine, Fossa (1988)	Total maxillectomy (Mar. 1988)	IP-SCC	Apr. 1988 (Refuse RT)	Syn	D	2 Y ago	Rhinorrhea (Bloody) Nasal obstruction
6	Male/44	(-)	(-)	Nasal cavity, Ethmoid sinus, Frontal sinus, Sphenoid sinus (1991)	External frontoethmoidectomy with sphenoidotomy (Nov. 1991), Radiation therapy	IP-SCC	Apr. 1997	Syn	B	3 M ago	Periorbital Swelling, Eyeball deviation
7	Male/38	(-)	(-)	Nasal cavity, Maxillary sinus (1995)	Denker's operation (May 1995)	IP-SCC	Now	Syn	B	10 Y ago	Rhinorrhea Nasal obstruction
8	Male/65	(-)	(-)	Nasal cavity, Maxillary sinus, Ethmoid sinus, Frontal sinus, Orbital medial wall, Brain invasion (1998)	Intranasal procedure (Nov. 1996), Medial maxillectomy and frontoethmoidectomy (Mar. 1998), Radiation therapy	IP IP-SCC	Now		D	3 Y ago	Nasal obstruction, Rhinorrhea (Bloody)

Bx. : Biopsy, IP : Inverted Papilloma, SCC : Squamous Cell Carcinoma, Syn : Synchronous, Meta : Metachronous, Cw-Luc's : Caldwell-Luc's, INE : Intranasal Ethmoidectomy, Y : Year, M : Month

:
 ,
 Kadish
 5) Hyams³⁾
 Benninger⁹⁾ 50 70
 , 6
 6)
 가
 , Nielsen¹⁰⁾ 42
 , Furuta¹¹⁾
 가 en bloc 가
 가
 Kadish¹⁴⁾
 Kashima¹²⁾
 24 1 18 Kadish A 0
 , Furuta¹¹⁾ 7 , B 5 , C 1 , D 2
 2
 16 16
 가 30% midface degloving
 . Lesperance Es -
 . Beck⁴⁾ clamado⁸⁾
 22 12 6 mi -
 11 dface degloving
 17 16 4 , 18 1 Lavertu¹⁵⁾
 6/11
 16/18 , . Lesperance Esclamado⁸⁾ Ka -
 dish B
 57% C D 14%
 13) B ,
 6 11 81. 29
 8% ,
 6 11 71.5%
 가
 가 B 3 C
 가 9 , D
 Lesperance Esclamado⁸⁾ 1 1

결론

Kadish

가

metachronus

가

중심 단어 :

Ka-

dish

REFERENCES

- 1) Vrabec DP. *The inverted schneiderian papilloma: A clinical and pathological study.* Laryngoscope 1975;85: 186-220.
- 2) Lawson W, Bengier JL, Som P, Bernard PJ, Biller HF. *Inverted papilloma: An analysis of 87 cases.* Laryngoscope 1989;99:1117-24.
- 3) Hyams VJ. *Papillomas of the nasal cavity and paranasal sinuses: A clinico-pathological study of 315 cases.* Ann otol Rhinol Laryngol;1971, p.192-206.
- 4) Beck JC, McClatchey KD, Lsesperance MM, Esclamado KM, Carey TE, Bradford CR. *Human papillomavirus types important in progression of inverted papilloma.* Otolaryngol Head and Neck Surg 1995;113:558-63.
- 5) Min YG, Hong SH, Kim HS, Rhee CS. *A clinical study on inverted papilloma of the nose and paranasal sinuses.* Korean J Otolaryngol 1991;34(5):962-7.
- 6) Ahn HY, Yeo SG, Seok SR, Hong NP, Cho JS, Cha CI. *Inverted papilloma and malignant transformation.* Korean J Otolaryngol 1994;37(2):304-15.
- 7) Kwon SH, Park BA, Yun HW, Hong KH, Kim Y Ki, Yoon YJ, et al. *Treatment of inverted papilloma: A comparison of extranasal operation and conservative surgery using nasal endoscope.* Korean J Otolaryngol 1997;40(8): 1097-1102.
- 8) Lesperance MM, Esclamado RM. *Squamous cell carcinoma arising in inverted papilloma.* Laryngoscope 1995; 105:178-83.
- 9) Banniger MS, Roberts JK, Sebek BA, Levine HL, Tucker HM, Lavertu P. *Inverted papilloma and associated squamous cell carcinomas.* Otolaryngol Head Neck Surg 1990; 103:457-61.
- 10) Nielsen PL, Buchwald C, Nielsen LH, Tos M. *Inverted papilloma of the nasal cavity: Pathological aspects in a follow-up study.* Laryngoscope 1991;101:1094-101.
- 11) Furuta Y, Shinohara T, Sano K, Nagashima K, Inoue K, Tanaka K, et al. *Molecular pathologic study of human papillomavirus infection in inverted papilloma and squamous cell carcinoma of the nasal cavities and paranasal sinuses.* Laryngoscope 1991;101:79-85.
- 12) Kashima HK, Kessis T, Hruban KH, Wu TC, Zinreich SJ, Shah KV. *Human papillomavirus in sinonasal papillomas and squamous cell carcinoma.* Laryngoscope 1992;102: 973-6.
- 13) Byun JY, Cho JS, Hong IH, Kim WS, Lee DY, Cha CI. *A study on the expression of p53 and the detection of human papilloma virus in the sinonasal inverted papilloma associated with carcinoma.* Korean J Otolaryngol 1998;41 (2):188-94.
- 14) Kadish S, Goodman M, Wang CC. *Olfactory neuroblastoma-a clinical analysis of 17 cases.* Cancer 1976;37: 1571-6.
- 15) Lavertu P, Roberts JK, Kraus DH, Levine HL, Wood BG, Medendorp SV, et al. *Squamous cell carcinoma of the Paranasal sinuses. The Cleveland Clinic Experience 1977-1986.* Laryngoscope 1989;99:1130-6.