

부분 미로 절제술을 이용한 추체-경사대 접근법 11례 : 수술전후의 청력변화 비교

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11 Approaches to Petrous-Clivus via Partial Labyrinthectomy for Hearing Preservation

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— ABSTRACT —

Background : Among many modalities for treatment of petrous-clivus lesion, partial labyrinthectomy approach is a method for hearing preservation. **Objects and Methods** : We reviewed 10 patients of skull base tumor and 1 patient of congenital cholesteatoma. Pure tone audiometry was checked before and 3 months after the surgery. **Results** : The lesions treated included 6 petroclival meningiomas, 3 clival neoplasms (2 meningioma and 1 cholesteatoma) and 2 Cerebellopontine angle neurogliomas. Sacrificed semicircular canals were 3 cases of superior and lateral canals and 8 cases of superior and posterior canals. With exception of 4 cases of scale-out, average bone conduction decreased from preoperative 21.2 dB to postoperative 50.4 dB. Average speech discrimination score decreased to 32.7%. 2 cases preserved their serviceable hearing level. **Conclusion** : Partial labyrinthectomy approach can be helpful for patients who want to maintain normal hearing level with further modification and efforts. (*J Clinical Otolaryngol* 2000;11:133-136)

KEY WORDS : Partial labyrinthectomy · Petroclival · Clival.

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 대상군 및 방법
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 (Nerve integrity monitor II, XOMED)
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 (petrous apex) , mporal region) 2 cm 12 cm
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Table 1. Summary of cases operated upon using partial labyrinthectomy approach

Case	Age / Sex	Location	Diagnosis	Tumor size	sSCC
1.	F/55	Petroclivus	Meningioma	1 cm	S/L
2.	F/39	Petroclivus	Meningioma	2 cm	S/P
3.	F/35	CPA	Neuroglioma	2 cm	S/P
4.	F/33	Clivus	Cholesteatoma	2.5 cm	S/L
5.	F/56	Petroclivus	Meningioma	2 cm	S/P
6.	M/52	CPA	Neuroglioma	2 cm	S/P
7.	F/52	Petroclivus	Meningioma	1 cm	S/P
8.	F/58	Clivus	Meningioma	2.5 cm	S/P
9.	F/60	Clivus	Meningioma	2 cm	S/P
10.	F/43	Petroclivus	Meningioma	1.5 cm	S/L
11.	F/41	Petroclivus	Meningioma	2 cm	S/P

S : Superior semicircular canal, L : Lateral semicircular canal, P : Posterior semicircular canal
 CPA : Cerebellopontine angle, sSCC : sacrificed semicircular canal

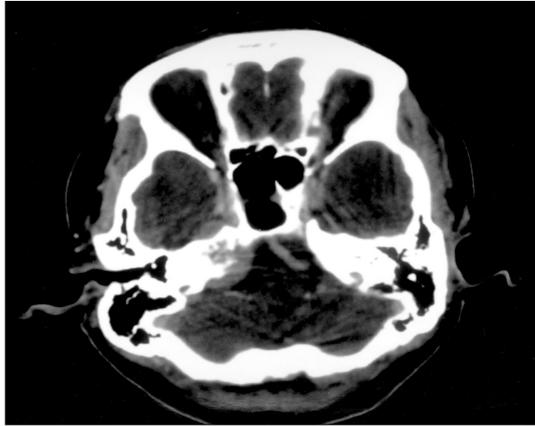


Fig. 1. Axial view of posterior fossa CT scan shows enhancing soft tissue mass destroying right petrous bone and involving ipsilateral IAC.



Fig. 2. Axial view of posterior fossa CT scan shows post-operative state after 3 months. Right lateral semicircular canal and middle ear cavity were intact. There was no evidence of recurrence.

Table 2. Changes of Pre and PostOp PTA and SDS

Case	PreOp PTA	PostOp PTA	PostOp SDS (%)
1.	10/15	50/ 85	35
2.	17/17	15/ 38	95
3.	60/60	65/ 77	35
4.	12/52	63/115	4
5.	12/12	Scale-out	NR
6.	7/33	60/ 90	5
7.	8/ 8	Scale-out	NR
8.	10/10	Scale-out	NR
9.	10/10	60/ 90	30
10.	12/12	50/ 90	25
11.	35/35	Scale-out	NR

PTA : pure tone audiometry, SDS : speech discrimination score

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결 과

(Gross total removal)가 가
(Figs. 1 and 2).
CPA neuroglioma
가
가 5
가 50 dB 가 4
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21.
2 dB 50.4 dB
89% 32.7%
(Table 2).
Table 2 가
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고 찰
3가
1)
(midline extradural)

