

다발성 경동맥 폐색성 질환으로 인한 뇌허혈증 환자에서
 쇠골하동맥-내경동맥 문합술 및 경동맥 내막 절제술을
 이용한 단계적 외과적 치료
 - 증례 보고 -

류권의 · 신용삼 · 김선호 · 이규창

= Abstract =

Multiple Carotid Artery Occlusive Diseases Treated with Staged Subclavian-carotid
 Artery bypass and Carotid Endarterectomy
 - Case Report -

Gwon Ui Lew, M.D., Yong Sam Shin, M.D.,
 Sun Ho Kim, M.D., Kyu Chang Lee, M.D.

Department of Neurological, Brain Research Institute, Yonsei University College of Medicine, Seoul, Korea

Approximately 2% of patients who are evaluated for symptomatic carotid artery disease have complete occlusion of a common carotid artery. Surgical management for the symptomatic carotid occlusion has various options. Surgical treatment for these patients should be decided according to the patient's condition, causes of the obstruction, and collateral circulations. We report our experience of surgical management for symptomatic carotid occlusion with contralateral carotid stenosis which were successfully treated with subclavian - carotid artery bypass and carotid endarterectomy.

KEY WORDS : Symptomatic carotid artery disease · Subclavian - carotid artery bypass · Carotid endarterectomy.

서론	(saphenous vein)	증례
(external - internal arterial bypass, EIAB) 6)7)	48	1
eral circulation) 7)12)16)	(collat - 3 TIA)	(transient ischemic attack,
95%	가	가

가 , 2 (sta -
 가 . ged operation)
 (occipital artery)
 95% (sternocleidomastoid muscle)
 (Fig. 1).
 3 가 4 compressed spectral array(CSA)
 pentothal sodium 8
 (Fig. 2).
 가 8 4 (4+)
 (turbulence) , SPECT scan

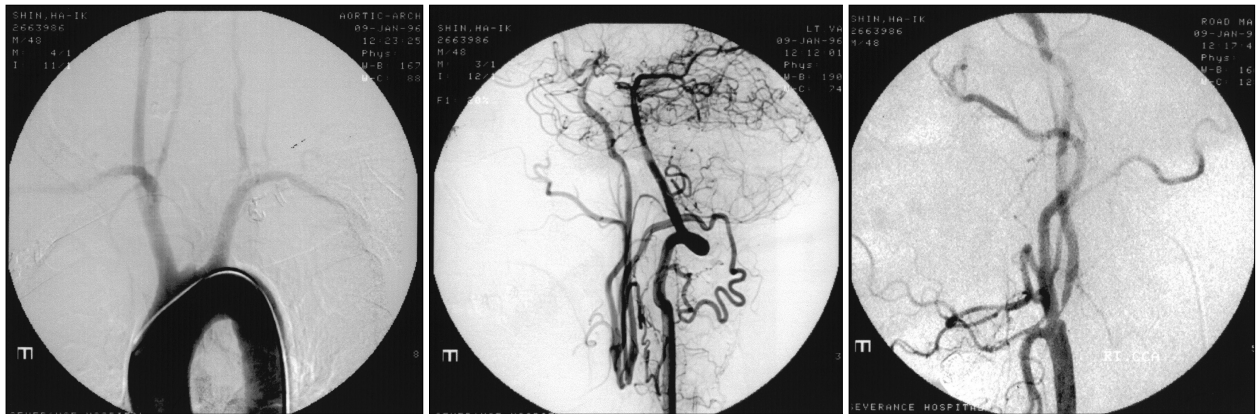


Fig. 1. Preoperative angiograms. Left : complete occlusion of the origin of left common carotid artery. Center : retrograde filling of the left internal carotid artery and external carotid artery from the vertebral artery collaterals. Right : 95% narrowing of the right internal carotid artery.

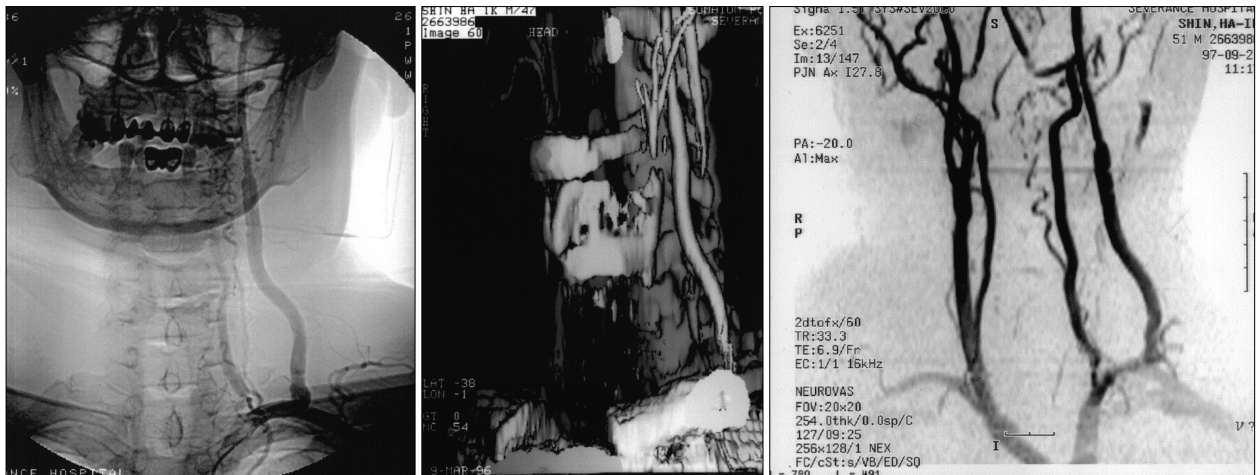


Fig. 2. Postoperative angiogram, 3D CT, and MRA. Left and center : 6 months after left subclavian-internal carotid artery interposition saphenous vein graft. Right : 6 months after right carotid endarterectomy.

다발성 경동맥 폐색성 질환으로 인한 뇌허혈증 환자에서 쇄골하동맥-내경동맥 문합술 및 경동맥 내막 절제술을 이용한 단계적 외과적 치료

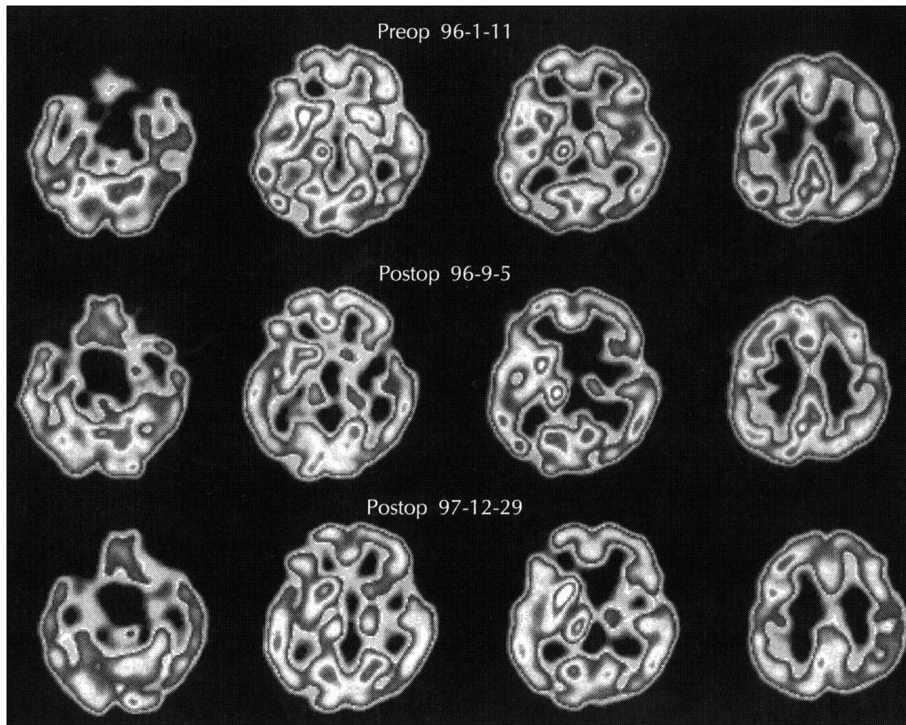
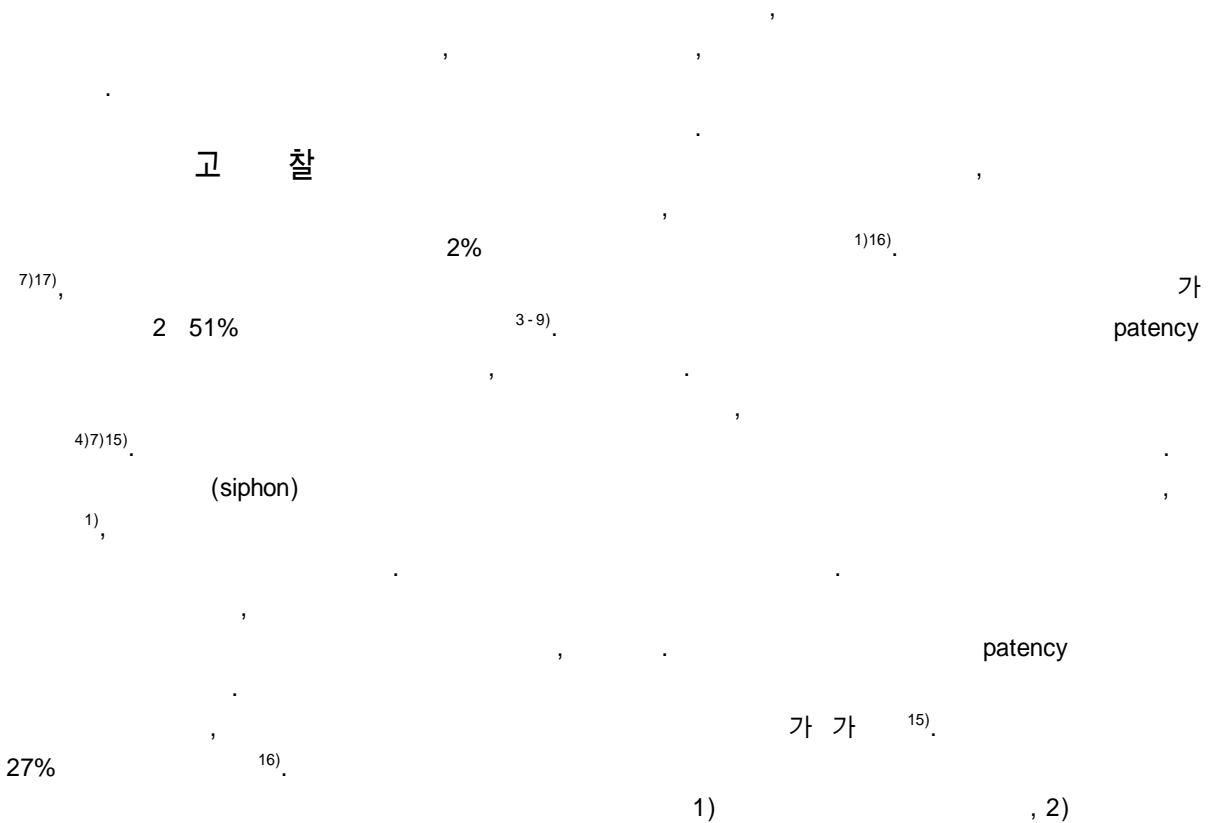


Fig. 3. SPECT scan. Upper : before operation. Middle : 6 months after left subclavian-internal carotid artery interposition saphenous vein graft. Lower : 6 months after right carotid endarterectomy.

(Fig. 3).



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- 2) Bauer RB, Meyer JS, Fields WS, et al : *Joint study of extracranial arterial occlusion* . *Progress report of controlled study of long-term survival inpatients with and without operation. JSMA* 208 : 509-517, 1969
- 3) Cote R, Barnett HJM, Taylor DW : *Internal carotid occlusions : a propective following stroke (abstr)* : *Stroke* 14 : 128, 1983
- 4) Dyken ML, Klatter E, Kolar OJ, et al : *Complete occlusion of common or internal carotid arteries. Clinical Significance. Arch Neurol* 30 : 343-346
- 5) Fields WS, Lemak NA : *Joint study of extra cranial arterial occlusion : X. Internal carotid artery occlusion. JAMA* 235 : 2734-2748, 1976
- 6) Grillo P, Patterson RH : *Occlusion of the carotid artery : Prognosis (natural history) and the possiblity of surgical revascularization. Stroke* 6 : 7-20, 1975
- 7) Hafner CD, Tew JM : *Surgical management of totally occluded internal carotid artery : A ten year study. Surgery* 89 : 710 -717, 1981
- 8) Hardy WG, Lindner DW, Thomas NM, et al : *Anticipated clinical course in carotid artery occlusion. Arch Neurol* 6 : 64-76, 1962
- 9) Kusunoki T, Rowed DW, Tator CD, et al : *Thromboendarterectomy for total occlusion of the internal carotid artery : a reappraisal of risks, success rate, and potential benefits. Stroke* 9 : 34-38, 1978
- 10) Lamberteh WC : *External carotid endarterectomy : Indications, operative techinque, and results. Surgery* 93 : 57-63, 1983
- 11) McCormick PW, Spetzler RF, Bailes JE, et al : *Thromboendarterectomy of the symptomatic occluded internal carotid artery. J Neurosurg* 76 : 752-758, 1992
- 12) McDowell FH, Potes J, Groch S : *The natural history of internal carotid and vertebral basilar artery occlusion. Neurology (Minneap)* 11 : 153-157, 1961
- 13) Podore PC, Rob CG, DeWeese JA, et al : *Chronic common carotid occlusion. Stroke* 12 : 98-100, 1981
- 14) Riles TS, Posner MP, Cohen WS, et al : *The totally occluded internal carotid artery. Preliminary observations using rapid sequential computerized tomographic scanning. Arch Surg* 117 : 1185-1188, 1982
- 15) Rushton FW Jr, Kukora JS : *Surgical management of the occluded carotid artery. Surgery* 96 : 845-853, 1984
- 16) Satiani B, Burns J, Vasko JS : *Surgical and nonsurgical treatment of total carotid artery occlusion. Am J Surg* 149 : 362-367, 1985
- 17) Walters BB, Ojemann RG, Heros RC : *Emergency carotid endarterectomy. J Neurosurg* 66 : 817-823, 1987

References

- 1) Anthony J. Furlan, Jack P. Whisnant, et al : *Long-term prognosis after carotid artery occlusion. Neurology* 30 : 986-988, 1980