COPYRIGHT[©] 2016 EDIZIONI MINERVA MEDICA

LETTERS TO THE EDITOR

logic change.^{1,5} Neurologic deterioration in our case 1 five hours after the occlusion of the aneurysm was most probably caused by the compression of the donor artery by a massive hematoma beneath the skin flap, as anisocoria promptly regressed following hematoma evacuation. Decompressive craniectomy, performed after normalization of coagulation parameters, as well as intensive antiedematous therapy with prompt intubation and artificial ventilation most likely also contributed to the overall positive result. The problem remains how to avoid and correct coagulation abnormalities in surgically treated patients, who subsequently undergo endovascular intervention with the use of heparin. In our case, a gradual coagulation correction was used due to concerns that the bypass may thrombose in the case of too rapid correction.

Martin KANTA ¹, Antonín KRAJINA ², Edvard EHLER ³, Jiřina HABALOVÁ ¹, Jaroslav ADAMKOV ¹, Tomáš ČESÁK ¹, Roman HERZIG ⁴, Martin VALIŠ ^{4*}, Svatopluk ŘEHÁK ¹

¹Department Neurosurgery, Comprehensive Stroke Center, Charles University Faculty of Medicine and University Hospital, Hradec Králové, Czech Republic; ²Department of Radiology, Comprehensive Stroke Center, Charles University Faculty of Medicine and University Hospital, Hradec Králové, Czech Republic; ³Department of Neurology, Pardubice Regional Hospital, Pardubice, Czech Republic; ⁴Comprehensive Stroke Center, Department of Neurology, Charles University Faculty of Medicine and University Hospital, Hradec Králové, Czech Republic

*Corresponding author: Martin Vališ, Comprehensive Stroke Center, Department of Neurology, Charles University Faculty of Medicine and University Hospital, Sokolská 581, CZ-500 05 Hradec Králové, Czech Republic. Email: valismar@seznam.cz

References

- Martin NA, Kureshi I, Coiteiro D. Bypass techniques for the treatment of intracranial aneurysm. Oper Tech Neurosurg 2000;3:255-70.
- Sekhar LN, Natarajan SK, Ellenbogen RG, Ghodke B. Cerebral revascularization for ischemia, aneurysms, and cranial base tumors. Neurosurgery 2008;62(Suppl 3):1373-408.
- Alexander MJ, Vishteh AG, Spetzler RF. Bypass surgery in the management of complex aneurysm. Oper Tech Neurosurg 1999;2:123-8.
 Greene KA, Anson JA, Spetzler RF. Giant serpentine middle cerebral
- Greene KA, Anson JA, Spetzler RF. Giant serpentine middle cerebral artery aneurysm treated by extracranial-intracranial bypass. Case report. J Neurosurg 1993;78:974-8.
- Sanai N, Zador Z, Lawton MT. Bypass surgery for complex brain aneurysms: An assessment of intracranial-intracranial bypass. Neurosurgery 2009;65:670-83.

The manuscript has been presented in part as a lecture at the 10th Meeting of the Mid-Eastern European Neurointerventional Club (MENC) in Tatranská Lomnica, Slovakia in May 2014.

Conflicts of interest.—The authors certify that there is no conflict of interest with any financial organization regarding the material discussed in the manuscript.

Manuscript accepted: October 8, 2014. - Manuscript revised: October 3, 2014. - Manuscript received: August 7, 2014.

(Cite this article as: Kanta M, Krajina A, Ehler E, Habalová E, Adamkov J, Česák T, et al. Low flow extra-intracranial bypass with endovascular deconstruction in the treatment of giant aneurysm after failure of endovascular and surgical reconstruction. J Neurosurg Sci 2016;60:281-3)

© 2014 EDIZIONI MINERVA MEDICA

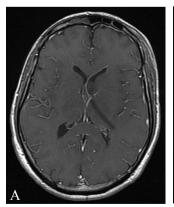
The online version of this article is located at http://www.minervamedica.it Journal of Neurosurgical Sciences 2016 June;60(2):283-4

Subependymoma of septum pellucidum presenting with cough and exertional headache: a case report of spontaneous regression after incomplete surgical removal

Dear Editor,

Subependymoma is a rare intraventricular tumor usually located in the fourth (50-60%) and lateral ventricles (30–40%), less frequently in the septum pellucidum and spinal cord.^{1,2} Symptoms are related to CSF obstruction with headache as main symptom. Valsalva-related headache and transient altered mental status were rarely described.³ Headache induced by Valsalva manoeuvre is usually considered an alarm symptom of intracranial lesions.⁴ Here, we report a case of Valsalva-related headache due to subependymoma of *septum pellucidum*.

A 41-year-old man was admitted after CT scan occasionally discovered an intraventricular lesion. No neurological abnormalities were detected apart from a very mild mental slowness. He had a five-year history of short lasting headache triggered by cough, straining during defecation and physical exercise, with an increasing frequency in the last year. MRI revealed a lesion on the left side of septum pellucidum closely related to foramen of Monro. The mass appeared hyperintense in the T2- and hypo-isointense in T1-wheighted sequences without contrast enhancement (Figure 1A, B). With a preoperative diagnosis of subependymoma, the patient underwent a partial resection. The white, jelly-like, poorly vascularized lesion was removed incompletely due to its close relation to the deep veins and choroid plexus was coagulated. Postoperative CT scan showed a residual lesion (Figure 2). Histology showed a subependymoma. At the three-month follow-up neuro-



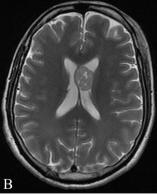


Figure 1.—T1 Post contrast (A) and T2-weighted (B) axial scans show an intraventricular tumor not enhancing with contrast. Note the close proximity to the deep veins.

COPYRIGHT[©] 2016 EDIZIONI MINERVA MEDICA

LETTERS TO THE EDITOR





Figure 2.—Early postoperative post-contrast CT scan gives evidence of a residual lesion. Figure 3.—Two-year postoperative MRI. T1 post-contrast axial scan shows no residual lesion.

logical examination was normal and the patient was headachefree. No Valsalva or exertion triggered attacks were reported. Surprisingly, contrast-enhanced MRI showed a nearly complete regression of the lesion. At two-year follow-up, clinical situation was unchanged and neuroimaging was normal (Figure 3).

Cough-triggered headache consists of bilateral pain arising suddenly after Valsava-type maneuvres. Our patient had a history of short-lasting attacks related to squatting or straining and exercise-triggered longer episodes of headache, and fulfilled the diagnostic criteria for respectively cough and exertional headache. In the reported cases of symptomatic subependymomas of the lateral ventricles headache is commonly reported as presenting symptom. Altered mental status has also been described in cases associated with hydrocephalus. In the present case hydrocephalus was not documented, however a possible transient increase in intracranial pressure induced by Valsalva-related increase of intrathoracic pressure together with the close proximity of the mass to Monro's foramen might have induced a potential valve-like mechanism, causing intermittent hydrocephalus. This hypothesis is supported by postoperative disappearance of headache.

The spontaneous regression of the residual lesion after incomplete surgical removal is also remarkable. In fact short-term MRI control showed a significant regression of the residual lesion which completely disappeared later on. In published cases resection is the treatment of choice. Some patients underwent partial removal with very low recurrence rate regardless of postoperative radiotherapy,⁵ but spontaneous regression of subependymoma following incomplete surgical removal has never been described. Since coagulation of choroid plexus also was performed, we wonder if this might have played a role in the spontaneous regression of the lesion.

Aldo SPALLONE ¹, Massimiliano VISOCCHI ², Mario DI CAPUA ¹. Daniele BELVISI ^{3*}

¹Department of Clinical Neurosciences, Neurological Centre of Latium-NCL, Rome, Italy; ²Institute of Neurosurgery, Catholic University of the Sacred Heart, Rome, Italy; ³IRCCS Neuromed Institute, Pozzilli, Isernia, Italy. *Corresponding author: Daniele Belvisi, IRCCS, Neuromed Institute, Via Atinense 18, 86077, Pozzilli, Isernia, Italy. E-mail: dbelvisi@hotmail.it

References

- Maiuri F, Gangemi M, Iaconetta G, Signorelli F, Del Basso De Caro M. Symptomatic subependymomas of the lateral ventricles. Report of eight cases. Clin Neurol Neurosurg 1997;99:17-22.
 Nishio S, Morioka T, Mihara F, Fukui M. Subependymoma of the
- Nishio S, Morioka T, Mihara F, Fukui M. Subependymoma of the lateral ventricles. Neurosurg Rev 2000;23:98-103.
- 3. Chittiboina P, Zhang S, Bao J, Vannemreddy P, Guthikonda B. Subependymoma at the foramen of Monro presenting with intermittent hydrocephalus: case report and review of the literature. J La State Med Soc 2010;162:214-7.
- Buzzi MG, Formisano R, Colonnese C, Pierelli F. Chiari-associated exertional, cough and sneeze headache responsive to medical therapy. Headache 2003;43:404-6.
- Ragel BT, Osborn AG, Whang K, Townsend JJ, Jensen RL, Couldwell WT. Subependymomas: an analysis of clinical and imaging features. Neurosurgery 2006;58:881-90.

Acknowledgments.—The authors are indebted to Dr Pasquale Marchione for his suggestions in the preparation of the manuscript, and to Dr. Cristano Giannone for his participation in the clinical management of the patient.

Conflicts of interest.—The authors certify that there is no conflict of interest with any financial organization regarding the material discussed in the manuscript.

Articles first published online: March 4, 2015. - Manuscript accepted: September 11, 2014. - Manuscript received: August 13, 2014.

(Cite this article as: Spallone A, Visocchi M, Di Capua M, Belvisi D. Subependymoma of septum pellucidum presenting with cough and exertional headache: a case report of spontaneous regression after incomplete surgical removal. J Neurosurg Sci 2016;60:283-4)

© 2016 EDIZIONI MINERVA MEDICA

The online version of this article is located at http://www.minervamedica.it Journal of Neurosurgical Sciences 2016 June;60(2):284-6

Paget's disease and thoracic spinal cord compression: when should we operate?

Dear Editor.

Paget disease of bone (PDB) is a well-known skeletal disorder characterized by an abnormal bone turnover leading to hypervascular, weakened and structurally disorganized bone at one or multiple sites (monostotic or polyostotic disease).1 The abnormal bone remodeling can lead to spinal stenosis with cord compression. Incidence of spinal stenosis with cord compression in pagetic patients is 6% and several underlying mechanisms have been described². Pharmacologic treatment has been demonstrated being effective in pagetic spinal stenosis but surgery is advocated in certain cases. We report the case of a 63 vear-old man presenting with a 1-month history of progressive signs of myelopathy and thoracic back pain. A CT scan revealed the standard radiologic findings for PBD, including a sclerotic lesion with osteolytic spots into the enlarged body and neural arch, circumferential expansion with severe spinal stenosis (Figure 1). T3 vertebral body was collapsed with more than 50% of vertebral height loss, causing a segmental kyphotic deformity.