An unusual localization of Shwannoma

Abstract

Benign schwannomas are the most common nerve tumors. These tumors occur with predilection in the adult of 20 to 50 years, and always indifferently the man and the woman. The time of appearance of the first signs is usually long. Magnetic resonance imaging can guide the diagnosis, but it is histology that confirms it. The treatment is essentially based on surgical enucleation. Evolution is generally favorable. We report a rare case of schwannoma developed on the anterior side of the leg.

Keywords: schwannoma, leg, young patient, surgical enucleation

Introduction

Primary tumors of the peripheral nerves account for 1 to 2% of soft tissue tumors. Benign schwannomas and neurofibromas should be distinguished from malignant tumors that usually occur during Recklinghausen disease.1 We report a case of benign solitary schwannoma developed in the leg and mimicking a centrofollicular b-lymphoma in a 34-year-old patient.

Case presentation

A 35-year-old man presented with a solitary nodule on his leg. The lesion had first appeared 3 years earlier as a small skin nodule. The cutaneous lesion was erythematous, well demarcated and measured 3 cm in diameter (Figure 1). The patient had no other abnormalities and no evidence of neurofibromatosis such as café-au-lait spots or cutaneous neurofibroma. Physical examination did not reveal any enlargement of regional lymph nodes.

The patient underwent surgical excision. Histological examination showed a subatrophic polypoid epidermal coating with fusiform cells arranged in wavy bays. They are provided with regular elongate ovoid nuclei arranged in places in blanks of palisades with rolls of nodules in places (Figure 2). The patient benefited from an excision with good evolution without recurrence after one year.

Discussion

Benign schwannomas; formerly known as neuromas, are the most common nerve tumors. They develop at the expense of schwann cells, forming a macroscopically smooth, rounded, yellowish and encapsulated proliferation.2,3 They are easily cleavable from the nervous beams which they repress to invade them; thus allowing a complete enucleation of the tumor. The malignant transformation is exceptional or even discussed, it would occur mainly in the context of a Recklinghausen disease.4 Tumeur primitive’s des nerfs périphériques Tumeur primitive’s des nerfs périphériques Tumeur primitive’s des nerfs périphériques Tumeur primitive’s des nerfs périphériques Tumeur primitive’s des nerfs périphériques. These tumors occur with predilection in the adult of 20 to 50 years, and always indifferently the man and the woman. They preferentially localize to the anterior surface of the upper limbs, typically at the level of the large nervous trunks.6 The lower extremities are rarely the seat of benign schwannomas and pose more the problem of diagnosis.6 In this localization they concern both the large nervous trunks and the superficial sensory nerves. It is necessary to know how to evoke the diagnosis in front of a pain or paresthesia of a lower limb without obvious clinical abnormality. Generally, it’s a solitary tumor.
However, multiple localizations may be part of a Reckling Haussen disease.

MRI can guide the diagnosis by objectifying an aspect in favor of schwannoma. It can show in T1 a signal of the same intensity or slightly higher than the muscle, in T2 a hyperintense signal sometimes a “target image” with a hyperintense peripheral halo and a hypo-intense center. The confirmation of the diagnosis remains histological. The optimal treatment is surgical excision since it is an easily extirpable tumor. After complete excision, there is no recurrence. The malignant degeneration of schwannoma is controversial. No case of malignant degeneration has been described. In our case, the excision was complete without any local recurrence.

Conclusion
Benign schwannoma located at the level of the lower limbs is rare and pose a real problem of diagnosis. Histology as well as imaging is tools that allow the diagnosis of this entity and the surgical exeresis remains the best treatment. It should always be evoked in case of a young patient who has a painful nodule or subcutaneous mass.

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Conflicts on interest
Authors declare that there is no conflict on interest.

References
1. Chahbouni M, Eloukili, Berrady MA, et al. Benign schwannoma of the sciatic nerve, about 2 cases. *Pan Afr Med J*. 2014;18:252.
2. Dubuisson A, Fissette J, Vivario M, et al. Benign tumor of the sciatic nerve: case report and review of the literature. *Acta Neurol Belg*. 1991;91(1):5–11.
3. Whitaker WG, Drouillas C. Benign encapsulated neurilemoma: a report of 76 cases. *Am Surg.* 1976;42(9):675–678.
4. Thomas JE, Pieprgas DG, Scheithauer B, et al. Neurogenic tumors of the sciatic nerve. A clinicopathologic study of 35 cases. *Mayo Clin Proc.* 1983;58(10):640–647.
5. Kralick F, Koenigsberg R. Sciatica in a patient with unusual peripheral nerve sheath tumors. *Surg Neurol.* 2006;66(6):634–637.
6. Kelso TB, Ferrari CJ, Frassica FJ. Sciatica caused by a neurilemoma of the intrapelvic portion of the sciatic nerve. A case report. *J Bone Joint Surg Am.* 1993;75(4):603–605.
7. Cerofolini E, Landi A, DeSantis G, et al. MR of benign peripheral nerve sheath tumors. *J Comput Assist Tomogr.* 1991;15(4):593–597.
8. Alnot JY, Bosquet L, Cheveigné C, et al. Tumeur primitive des nerfs périphériques. Paris, France: Encycl-médecin; 1989.
9. Enzinger FM, Weiss SW. Soft tissue tumors. 2nd ed. USA: Saint-Louis Mosby; 1988.
10. Spiegl PV, Cullivan WT, Reiman HM, et al. Neurilemoma of the lower extremity. *Foot Ankle.* 1986;6(4):194–198.
11. White NB. Neurilemmomas of the extremities. *J Bone Joint Surg Am.* 1967;49(8):1605–1610.
12. Smith W, Amis JA. Neurilemoma of the tibial nerve. A case report. *J Bone Joint Surg Am.* 1992;74(3):443–444.
13. Wolock BS, Baugher WH, McCarthy EJ. Neurilemoma of the sciatic nerve mimicking tarsal tunnel syndrome. Report of a case. *J Bone Joint Surg Am.* 1989;71(6):932–934.

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