Clinical rheumatology in images

Muscle metastasis of a coroid melanoma

Metástasis muscular de melanoma coroideo

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Case report

The patient was a 73-year old woman with a history of choroidal melanoma in the right eye, which was treated in 1999 with brachytherapy. In May 2008 she presented a nodule in the left forearm of 4 months evolution. Physical examination revealed a painless nodule which seemed to depend on the extensor muscles. Blood count, biochemistry and urinalysis were normal. The ESR was 26 mm (0-20). The Rx of the forearm (Figure 1) showed a dense mass of soft tissue without bone erosion. Ultrasound (Figure 2) revealed a solid, oval tumour with internal blood flow. MRI scans (Figure 3) showed a solid mass, hyperintense on T1 and slightly hyperintense on T2 and somewhat brighter on STIR.

Diagnosis and evolution

A biopsy was performed which showed histopathological muscle metastases. This was surgically resected and did not require adjuvant treatment. At present there has been one subcutaneous preauricular recurrence, bilateral and abdominal, which is being treated with chemotherapy.

Figure 1. Left forearm Rx: Evidence of a dense mass in soft tissue, without evidence of underlying bone erosion.

Figure 2. Left forearm ultrasound: There is a solid, oval mass, 36-26-14 mm, well circumscribed, with internal blood flow. The lateral, muscular plane of the left forearm shows a solid, oval mass of 36-26-14 mm, well circumscribed by an echogenic ring, predominantly hypechoic with respect to the adjacent muscles, with a central hyperechoic area. The Doppler study reveals there is blood flow inside the tumour.
Discussion

Choroidal melanoma is the most common ocular malignancy. Its incidence is around 6-7 cases per million inhabitants per year. It is clinically manifested by a detachment or haemorrhage of the retina with visual loss and/or scotomas. This type of tumour causes metastases in 35% of cases, despite satisfactory treatment. They mainly settle in the liver (98%), lung (29%) and bone (17%). Only 12% occur in skin and subcutaneous tissue. Mean survival is less than 10% at 2 years from the onset of metastasis.

There are very few reported cases of muscle metastases from malignant melanomas. The usual clinical manifestation is a painless mass most commonly located in the psoas, iliopsoas, paravertebral and proximal muscles of the limbs. On MRI scans, the hyperintense T1 signal, due to the paramagnetic effect of melanin, is a hallmark of this entity. The definitive diagnosis is anatomicopathological. From all the above, it follows that the medical history of the patient should always be taken into account, especially in the case of neoplasms.

References