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Metástases Tardias de Melanoma Maligno Cutâneo Primário Fino

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RESUMO – O melanoma maligno cutâneo é o terceiro tipo mais comum de cancro de pele, e a sua incidência tem aumentado. A taxa de mortalidade associada é considerável, devido ao seu fenótipo agressivo e grande capacidade de metastização, principalmente nos primeiros anos de seguimento. As recidivas tardias, mais de 10 anos após o diagnóstico, são raras. O principal fator de prognóstico do melanoma maligno cutâneo é a espessura tumoral, que também determina o tipo de abordagem. Os tumores finos, geralmente, têm bom prognóstico. Reportamos o caso de uma mulher de 66 anos com antecedentes de excisão de um melanoma maligno cutâneo primário fino, localizado no dorso, que se apresentou 16 anos mais tarde com uma inesperada recidiva, rapidamente progressiva e letal.

PALAVRAS-CHAVE – Melanoma; Metastase Neoplásica; Neoplasias da Pele; Recidiva.

Late Metastases from a Thin Primary Cutaneous Malignant Melanoma

ABSTRACT – Cutaneous malignant melanoma is the third most common type of skin cancer, and its incidence has been rising. Its mortality rate is considerable, due to an aggressive phenotype and great ability of dissemination, mainly in the first years of follow-up. Late recurrences, those presenting more than 10 years after diagnosis, are rare. The main prognostic factor of cutaneous malignant melanoma is tumor thickness, which also guides management. Thin tumors often have a good prognosis. We report a case of a 66-year-old woman with a history of excision of a thin primary cutaneous malignant melanoma of the dorsum, presenting 16 years later with an unexpected, rapidly progressing and lethal recurrence.

KEYWORDS – Melanoma; Neoplasm Metastasis; Recurrence; Skin Neoplasms.

INTRODUCTION
Cutaneous malignant melanoma (CMM) is the third most common skin cancer, nevertheless its mortality rates are the highest among cutaneous neoplasms. Despite the increasing prevention campaigns, the incidences rates of CMM continue to raise in the majority of developed countries, especially in older people. Fortunately, the vast majority of cases are detected in an early stage, encouraging the concept of “cure” after adequate treatment. The aggressiveness of CMM is reflected in its capability to metastasize to locoregional or distant sites, particularly within first years of follow-up. Despite being an unusual event, late recurrence, defined as occurring more than 10 years after diagnosis, has been reported and is mainly characterized by distant disease.

CASE REPORT
A 66-year-old woman was admitted in 2018 for a progressive cognitive decline and weight loss, in the last two months. Her family described signs of short-term memory loss and less autonomy in daily tasks. They also reported the synchronous development of nodular cutaneous lesions on
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the trunk. The patient’s cancer screening tests were recent and normal. Her medical history was remarkable for a cutaneous malignant melanoma of the right scapular region, managed through wide excision at an oncology referral center, in 2002. Records of the primary tumor’s histopathological examination registered a superficial spreading melanoma, Clark level II, Breslow thickness of 1.00 mm, mitotic index of 3/mm², without ulceration. The patient maintained annual surveillance, with no signs of recurrence up to the last follow-up visit, in 2017.

Physical examination revealed cognitive impairment on mental exam and a slight facial asymmetry, with no other motor or sensitive deficits. Multiple erythematous-purplish nodules ranging in size from one to 2 cm were palpable on the dorsum (Fig. 1A), scalp and arms, some of them with a dome-shaped form and a central crateriform ulceration. Erythematous-yellowish, firm, pearly papules, with a waxy surface were evident in the abdomen and breasts (Fig. 1B). Total-body skin examination did not reveal any suspicious primary cutaneous lesion.

Dermoscopy of papular lesions on the abdomen revealed dotted and linear irregular vessels, homogenously distributed over a pink-yellowish background without pigment network (Fig. 2). However, regarding the patient’s oncologic history and clinical presentation, these dermoscopic findings raised the possibility of a melanoma recurrence. A skin biopsy was performed, and the histologic examination showed a neoplasia with well-defined boundaries limited to the dermis (Fig. 3A), composed of proliferating atypical melanocytes without melanic pigment (Fig. 3B); intraepidermal neoplastic component was not observed, which was compatible with metastasis. The melanocytic origin was confirmed by the diffuse expression of MiTF (Fig. 3C) and Melan-A (Fig. 3D). Imaging studies revealed carcinomatous-like ascites, thoracic adenopathies, cerebral hemorrhages and meningeal tumor dissemination.

The patient was proposed for palliative care. Nevertheless, her neurological status rapidly deteriorated and she died three days after confirmation of the diagnosis.

DISCUSSION

The estimated incidence of late recurrences of CMM is 0.5% - 3.5%, according to the published series. These cases have been explained by “tumor dormancy”, a period in cancer progression in which residual disease is present but remains asymptomatic. The mechanisms regulating this phenomenon are not fully understood, but they might rely on host and tumor factors, respectively immunosurveillance, and cell cycle arrest or preferential hematogenous spread.

One of the most important prognostic factors of CMM is tumor thickness. Our patient had been previously treated for a thin (≤ 1.00 mm) primary tumor, without ulceration. According to the 2002 American Joint Committee on Cancer (AJCC) staging criteria, the patient was classified as stage IA, and underwent wide excision without prior sentinel lymph node biopsy (SLNB). Retrospectively, SLNB was not advocated as a standard of care for CMM patients. It was actually incorporated for the first time in the AJCC staging manual in its 6th edition (2002), which stated that CMM pathologic stage IA did not require pathologic
evaluation of their lymph nodes. The role of SLNB apart from clinical trials was questioned, since no impact on survival had been proved, neither the effectiveness of adjuvant therapy (interferon alfa) had been established. The subsequent approval of targeted therapies and immune checkpoint inhibitors revolutionized the management of CMM, by demonstrating a survival advantage in the adjuvant setting of sentinel lymph node positive patients. Thus, SLNB is now recognized as a standard staging procedure, in appropriate cases. For thin tumors, however, the prognostic value of SLNB results is still unclear, making it difficult to predict those that might progress. There are some reports identifying possible predictive factors for late recurrences from thin primary tumors, namely ulceration, younger age and mitotic rate. The last two predictors were noteworthy in our case.

One could argue that, given the long interval between initial tumor and recurrence, the second disease represented a new malignancy. Since total-body skin examination of the patient showed no evidence of a new primary cutaneous cancer, metastases would have to originate from an unknown secondary primary tumor. Reported cases of distant disease from an unknown primary are even rarer than late recurrences, with an estimated rate of 0.2%. Nevertheless, this possibility could never be ruled out.

Finally, cutaneous metastases of our patient presented no melanotic pigment, which may have been a confounding element. Nonetheless, the dermoscopic findings, specifically the vascular pattern of lesions, raised the possibility of an amelanotic recurrence. Melanoma metastases can display features different from the primary tumor, at the morphologic and genetic level. Therefore, besides the particular attention to new pigmented lesions in the wide excision scar and surrounding skin, physicians must also be aware of amelanotic recurrences, in which dermoscopy might be a useful tool for the differential diagnosis.

We herein report an unusual case of a CMM amelanotic recurrence, sixteen years after surgical resection of a thin primary tumor. This case highlights current recommendations about lifetime surveillance of CMM patients, including those with an expected good prognosis. New predictors and biomarkers are warranted to elucidate which patients with earlier stages might benefit from additional work-up or adjuvant therapy.

Presentations / Apresentações
This case has already been presented as an oral communication in the XVIII National Congress of the Portuguese Society of Dermatology and Venereology (30th November - 2nd December 2018, Lisbon, Portugal), and as a poster in the XXXVII Reunion Anual de Dermatologos Latinoamericanos (4-7th May 2019, Buenos Aires, Argentina).
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