



Inflammatory melanoma in transit metastases with complete response to talimogene laherparepvec

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INTRODUCTION

Inflammatory melanoma was first described in 1984 in 2 patients presenting with nodular cutaneous melanomas resected from the back followed 4 to 12 months later by recurrence in the form of diffuse, indurated, erythematous skin 20-25 cm in diameter with scattered nodularity.¹ Microscopic examination found melanoma cells in the dermis and dermal lymphatics. Both patients died of hematogenous metastases within 6 months of their inflammatory melanoma recurrences.¹ Although histopathologic examination of melanoma frequently finds an associated inflammatory cell infiltrate, gross clinical inflammation is extremely rare.¹ A search of PubMed and Google Scholar performed on August 5, 2016 found 3 additional case reports of inflammatory melanoma, 2 of which involved direct dermal lymphatic extension from grossly involved lymph nodes.²⁻⁴ Here we report the first, to our knowledge, successfully treated case of surgically incurable inflammatory melanoma with emphasis on molecular and immunophenotypic characterization.

CASE REPORT

A 79-year-old white man presented with an ulcerated, epithelioid, melanotic melanoma of the left dorsal forearm, 1.6 mm deep, that was widely excised with negative margins and a negative

Abbreviation used:

TVEC: Talimogene laherparepvec

sentinel lymph node biopsy from the left axilla (T2b, N0, M0). Beginning a year after his primary excision, and over a period of 23 months, 6 separate satellite melanoma nodules within 2 cm of the original scar were excised. Eight months later, a surgical oncologist aggressively excised additional satellite melanoma nodules, and repeat sentinel lymph node biopsy found melanoma in 1 of 3 left axillary nodes. The *BRAF* gene was wild-type. Positron emission tomography/computed tomography found no evidence of metastatic melanoma. Melanoma again recurred locally 2 months later with 6 pigmented dermal satellite nodules. Radiotherapy consisting of 36 Gy in 6 fractions over 2 weeks was delivered to the left forearm encompassing all previously affected sites with a 2-cm margin. Four months later, he had a clinical complete response to radiotherapy with all satellite nodules becoming macular, but 2 months thereafter he presented with 60 new punctate, black, dermal nodules affecting most of the left forearm with a confluent, erythematous plaque extending from the dorsum of the left hand and thumb to the mid upper arm (Fig 1, A). Skin

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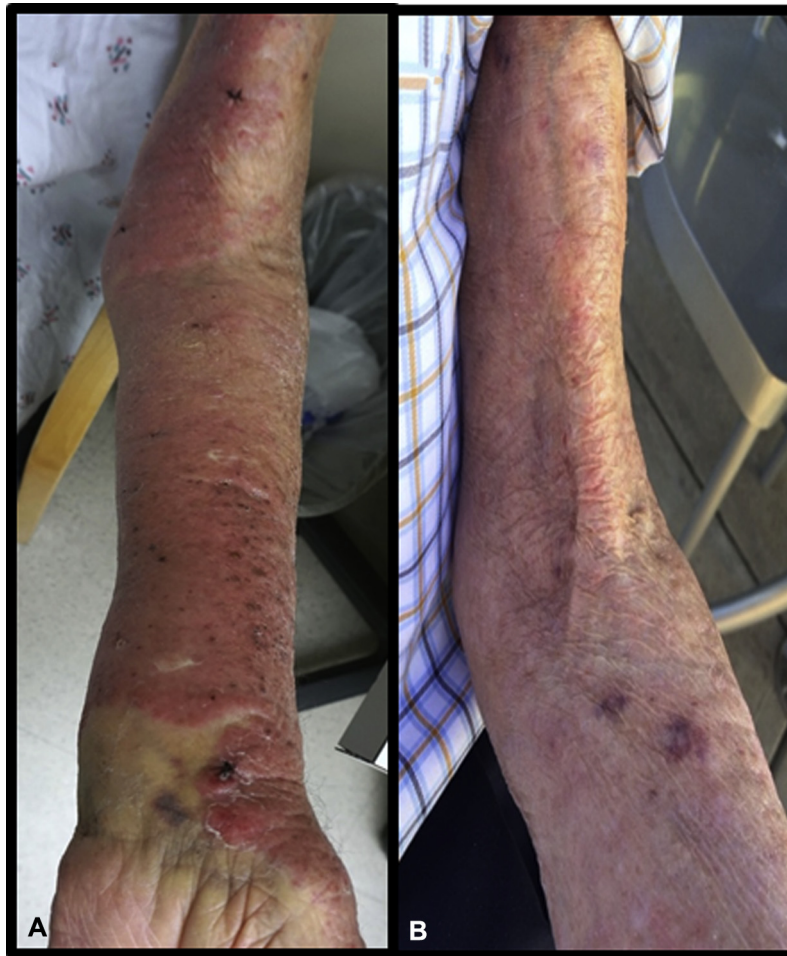


Fig 1. **A**, Sharply demarcated red plaque with intermixed dark brown to black papulonodules from the volar wrist proximal to the upper arm. **B**, Posttreatment improvement in inflammatory plaque.

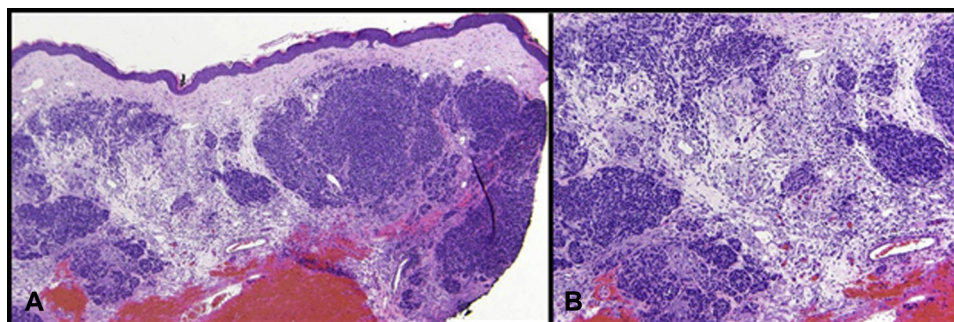


Fig 2. **A**, Large nodules of atypical melanocytes present within the dermis intercalating between solar elastosis. **B**, Nodules of atypical melanocytes intercalating between solar elastosis with both nests and single cells. (Original magnifications: **A**, $\times 4$; **B**, $\times 10$.)

punch biopsies from the left biceps; volar wrist; and the medial, lateral, and volar forearm all found a diffuse inflammatory plaque with widespread dermal intercalation by predominantly amelanotic melanoma cells (Fig 2, A and B). Quantitative multiplexed immunohistochemistry for expression

and proximity of PD1 and PD-L1 from 4 tumor biopsy sections over the left forearm conducted by Navigate BioPharm Services Inc (Carlsbad, CA) using AQUA technology found that PD-L1 expression in melanoma cells varied from 1% to 70% depending on the biopsy location, and there was an average

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