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Iatrogenic onycholysis

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Abstract

Docetaxel is an antineoplastic agent. Several adverse effects of this agent molecule have been reported, including dermatological manifestations. Herein, we report a case of a 42 years-old man, followed for breast invasive ductal carcinoma with lung metastasis, treated by Docetaxel monochemotherapy, who presented a painful onycholysis, with *nails* discolorations and beau's lines.

Introduction

Docetaxel is an antineoplastic drug from the taxane family. Several adverse effects of this agent molecule have been reported. Herein, we report a new case of patient who presented a dermatological manifestations.

Clinical case

A 42 years-old man, followed for breast invasive ductal carcinoma with lung metastasis, treated by Docetaxel monochemotherapy, using a dose of 80mg / m2 / 21 days, who presented a painful onycholysis of all the fingers and both big toes, with *nails* discolorations and beau's lines at some nails right after the 4th cure (Figures 1,2 and 3). We recommended a fortifyed varnish based on silicon, a *moisturising* and barrier cream with photoprotection. We also proposed for the next treatments, to wear frozen gloves and socks.

Comments

Docetaxel (Taxotere*) is an alkaloid derived from yew needles of the taxane family. It's an antineoplastic agent that acts by promoting the assembly of tubulin into stable microtubules and inhibits their depolymerization, this leads to the interruption of mitosis and cell replication.

Several adverse effects of this agent molecule have been reported, including hematologic, gastrointestinal, neurological and dermatological manifestations. 60% of the patients experienced dermatological side effects such as limb erythematous reactions,

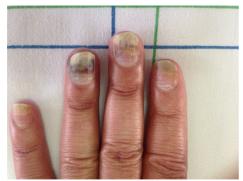


Figure 1. Onycholysis with nails discolorations and beau's lines.

plaque-like erythrodysesthesia, erythema multiforme, nail changes, scleroderma, supravenous discoloration, radiation recall dermatitis, desquamation, and flagellate erythema and Stevens Johnson syndrome [1]. 30% of the patients using docetaxel experienced some kind of nail disorders [2], such as chromonychies, Beau's lines, bleeding under nail, felons and painful onycholyses. All nails may be affected, but especially



Figure 2. Onycholysis with nails discolorations and beau's lines.



Figure 3. Onycholysis with nails discolorations and beau's lines.

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finger nails. These disorders are dependent on the doses prescribed and usually start to appear after the 3rd cure of chemotherapy.

The physiopathology of the nail toxicity is unknown. It would be induced by direct toxicity of docetaxel on the various constituents of the nails, such as the matrix, the nail bed, the periungual tissue, or blood vessels [3]. Several studies have suggested that the anti-angiogenic properties of taxanes may be involved in the toxicity of the nail [4]. In most cases the nail involvement does not require a discontinuation of the treatment. Preventive treatment should be started from the first cycle of docetaxel, this particularly include the use of refrigerated gloves and socks during the administration of chemotherapy [2], the application of a nail varnish containing silicon up to 3 -6 months after the end of chemotherapy, with a moisturizing periungual.

This observation underlines the interest to better know this rare side effect, for better prevention.

Conflict of interests

None.

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