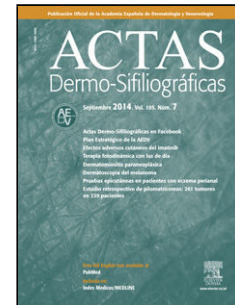


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Observational study of 140 patients

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Sección. Artículo original

Dermatoscopic findings of adverse nail effects in cancer patients. Observational study of 140 patients.

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Graphical abstract



ABSTRACT

Background: Chemotherapy can cause multiple dermatological alterations, including nail changes that significantly impact patients' quality of life. This study aims to characterize the nail alterations induced by chemotherapy and assess their diagnosis through dermatoscopy.

Methodology: An observational, prospective, and descriptive study that included 140 patients from the Fundación Instituto Valenciano de Oncología (FIVO). Both clinical and dermatoscopic nail alterations in the hands and feet were evaluated, associated with the different chemotherapy drugs administered. Analyzed variables included the type of nail alteration, the treatment cycle in which they appeared, and the observed dermatoscopic patterns.

Results: The prevalence of nail alterations was 45.7%, with chromonychia being the most frequent, followed by onycholysis. Lesions affected both hands and feet in 72.3% of cases. The most common chromonichias were erythronychia (36.4%) and leukonychia (9.3%). Monoclonal antibodies, tubulin binders, and platinum complexes were the drug groups most associated with these alterations. Onychomycosis was suspected in eight patients, confirmed in four cases through mycological cultures, where non-dermatophyte fungi were isolated.

Conclusion: Nail alterations induced by chemotherapy are common, affecting nearly half of patients. Dermatoscopy allowed the identification of alterations at early stages, which can facilitate the implementation of timely therapeutic strategies and improve patients' quality of life.

Keywords: Chemotherapy, Nail disorder, dermatoscopy, toxicity, oncology patient.

Introduction

Chemotherapy is essential in the treatment of many cancers. The increasing prevalence of cancer in the general population leads to greater use of chemotherapy and other antineoplastic therapies and, consequently, to a wide range of dermatologic toxicities that must be identified and treated to improve the patients' quality of life.

Of note, cytotoxic drugs inhibit cell division. Therefore, while exerting their activity on tumor cells, they also act on healthy cells with a high mitotic index, such as those in the skin and its appendages, which may become affected.

It is important to detect chemotherapy-related toxicities at an early stage to implement therapeutic measures that reduce their severity and duration. In some cases, cutaneous toxicity requires dose reduction or even interruption of the drug, which may affect the patient's prognosis.¹⁻²

Among the forms of cutaneous involvement, nail alterations may occur. Nail changes are primarily classified using the National Cancer Institute–Common Terminology Criteria for Adverse Events (NCI-CTCAE), which includes 5 nail changes (paronychia, nail loss, ridging, nail discoloration, and infection).³ However, this classification does not capture all nail alterations observed in patients undergoing cancer therapies, many of which may significantly impact quality of life.

Scientific literature predominantly consists of case reports, case series, and—less frequently—systematic and narrative reviews. As a result, the incidence rate of nail changes varies widely among studies, since it has not been investigated systematically. In addition, many studies focus on a particular group of drugs, such as taxanes, and include small samples.^{4–7}

Furthermore, in most studies no standardized nail examination protocol is established to identify lesions, and in some cases there may be bias due to limited skill in detecting nail changes. Dermoscopy is a simple, noninvasive technique that allows visualization of small details not visible to the naked eye and contributes to better characterization and identification of nail alterations.

The aim of this study was to describe the main nail adverse effects of chemotherapy according to the drug used and the timing of onset in relation to the treatment cycle. Additionally, dermoscopic patterns were identified, as well as the location of the alterations (fingernails, toenails, or both).

Method

We designed a descriptive, observational, prospective exploratory study. Patients on chemotherapy who were older than 18 years, between May 2023 and July 2023, were selected. The sampling method was non-probabilistic and consecutive, according to the order in which patients were attended at the Day Hospital and the Dermatology Service of **XXX (institution withheld per journal requirements), on 2 fixed days per week**. Due to the characteristics of the center, the study did not include children. All patients provided written informed consent. The study was approved by the **XXX Research Ethics Committee (see previous note)** (V1 03-13-2018).

All patients underwent clinical examination of the fingernails and toenails to define the main dependent variable of the study: the presence or absence of nail alteration. For patients with nail lesions, photographic documentation was performed, including clinical dorsal, lateral, and frontal views of the nail, as well as dermoscopic dorsal and frontal images of the affected nail plate.

A mycological culture was performed in patients with clinical signs suggestive of onychomycosis (onycholysis, subungual hyperkeratosis, dystrophy, and/or chromonychia), after disinfecting the nail plate with 70% alcohol. To obtain the specimen, the distal nail edge was removed to collect material from the more active proximal area. The sample was collected with nail clippers and a scalpel by cutting the nail plate and scraping subungual hyperkeratosis. The specimen was placed in a properly labeled transparent container with patient identifiers.

The mycological study included fungal species identification and susceptibility testing. Sabouraud agar and Mycoline were used as culture media. Identification was performed using optical microscopy and MALDI-TOF. The mycological evaluation included assessment of macroscopic cultures, optical microscopy, fungal identification, and ITS (Internal Transcribed Spacer) sequencing, which enables identification by PCR amplification of the non-coding regions ITS-1 and ITS-2 of nuclear rDNA.

Independent variables included age (years), sex (male, female), tumor location (breast, ovary, cervix, endometrium, prostate, testis, bladder, kidney, pancreas, liver, esophagus, stomach, colon, lung, trachea, head and neck, non-Hodgkin lymphoma, soft tissue sarcoma, melanoma), the treatment received for the neoplasm (categorized by mechanism of action as antimetabolites, antibiotics, alkylating agents, platinum compounds, tubulin-stabilizing agents, topoisomerase inhibitors, hormonal therapy), and the number of treatment cycles.

Nail lesions recorded included: pitting, hapalonychia, onychorrhexis, trachyonychia, Beau's lines, onychomadesis, onycholysis, onychoschizia, subungual hyperkeratosis, subungual exudate, anonychia, hapalonychia, chromonychia, onychocryptosis, pyogenic granuloma, dystrophy, onychomycosis (presence/absence). For cases of onychomycosis, the clinical type (distal lateral subungual onychomycosis, total dystrophic onychomycosis, white superficial onychomycosis, proximal onychomycosis, mixed onychomycosis) and etiologic agent (dermatophytes, yeasts, molds) were recorded. For all nail lesions, dermoscopic findings were assessed: longitudinal streaks, subungual hyperkeratosis, ruin appearance, irregular distal edge, onycholysis with regular or irregular borders, proximal erythematous border, salmon patch, splinter hemorrhages, subungual hemorrhage, red dots in the hyponychium, red dots on lateral folds, type of chromonychia (multicolor, melanonychia, leukonychia, erythronychia, xanthonychia, etc.), pattern of chromonychia (longitudinal, diffuse distal, diffuse proximal, distal linear, total diffuse), triangular sign, inverse triangular sign, aurora borealis sign, micro-Hutchinson, Hutchinson sign, pseudo-Hutchinson. Additionally, the timing of lesion onset (treatment cycle number) and associated symptoms, both prior to and during treatment, were documented.

Data were analyzed using SPSS 21.0. Frequency analyses were performed for variables, and comparisons were made based on sex, patient age, the nail alteration identified, and the chemotherapy received.

Results

A total of 140 patients were included, with a median age of 63 years (34–89); 47 (33.6%) were men and 93 (66.4%) women. The patients had 17 types of malignant neoplasms for which they were on chemotherapy; breast carcinoma was the most frequent (45 patients; 32.1%), followed by lung cancer (21 patients; 15%), and bladder and colon cancer (13 patients; 9.3% each). (Table 1).

Nail alterations were identified in 64 patients (45.7%), mostly affecting both the hands and feet (46 patients; 72.3%) (Figure 1). Lesions were more frequent in women (50 patients; 78.1%) than in men (14 patients; 21.8%). Patients were followed for a median of 65 days (interquartile range, 45–75 days).

There were 14 different types of nail alterations. The most frequent was chromonychia (62.9%), followed by onycholysis (25%) (Figure 2). Among chromonychias, the most frequent were erythronychia (36.4%), leukonychia (9.3%; apparent in 7.9% and true in 1.4%), and purpura (7.9%).

The pharmacologic groups most associated with nail alterations were monoclonal antibodies, followed by tubulin-stabilizing agents, platinum compounds, and antimetabolites.

Chromonychias were more strongly associated with monoclonal antibodies, whereas onycholysis was more commonly associated with tubulin-stabilizing agents and, to a lesser extent, with monoclonal antibodies (Table 2).

Tables 3 through 5 illustrate the clinical presentation and its relationship with the chemotherapy agents used for each major nail alteration observed.

Onychomycosis was suspected in 8 patients, and non-dermatophyte fungi were isolated in 4. Table 6 illustrates the clinical suspicion of onychomycosis, the dermoscopic pattern identified, the culture results, and the histologic findings from nail clipping.

Discussion

In this study, we describe the dermoscopic characteristics of nail changes in patients no cancer treatment.

The prevalence of nail alterations observed is similar to that reported in other studies. For example, Pavey et al. observed nail changes in 62.2% of the 53 patients examined⁸, whereas Praveen Kumar et al. reported a prevalence of 33.3% in 50 patients⁹.

The most frequent finding was chromonychia, mainly erythronychia. The type of alteration differed depending on the mechanism of action of the chemotherapeutic agent used. In addition, fungal infection was identified in 4 patients.

Regarding nail discoloration, most studies refer to melanonychia, which has been identified in approximately 80% of patients^{8–11}—findings that contrast with the 6.4% reported in the present study. In this case series, unlike previous ones, the most frequent lesion was erythronychia. Of note, unlike other studies, this work focused on dermoscopic findings, which may partly explain the identification of different types of changes, possibly because early erythematous changes—detectable with dermoscopy—may go unnoticed on routine clinical examination. Therefore, while Trivedi et al. identified erythronychia in 5.3% of patients, in the present series it was found in 36.4% of the cases. Those authors associated erythronychia with cisplatin. In contrast, in our study erythronychia was seen mainly with monoclonal antibodies, followed by tubulin-stabilizing agents, antimetabolites, and platinum complexes. It was identified in most cases after the 1st or 2nd treatment cycle, with different patterns (Table 3), progressing over subsequent cycles toward more violaceous, purplish, or bluish tones (Images 8 and 9), lesion enlargement, and in some cases, the appearance of onycholysis—possibly due to nail bed inflammation.

Furthermore, leukonychia was identified, a finding reported by Praveen Kumar et al. in 3.2% of patients, mainly in those on oxaliplatin⁹. Trivedi et al. observed true leukonychia in 2.1% of patients on various chemotherapeutics¹¹. Chapman and Cohen suggest that no specific combination or group of chemotherapeutic agents is more frequently associated with acquired transverse leukonychia; however, cyclophosphamide, doxorubicin, and vincristine may be the most widely involved drugs—a finding consistent with our observations²⁰.

The findings also coincide with those reported by Praveen et al., who described diffuse pigmentation in 16% of patients on taxanes⁹. These changes appeared in most cases after the 2nd treatment cycle. In our study, discoloration occurred more frequently with monoclonal antibodies, followed by tubulin-stabilizing agents and platinum complexes.

Falkson and Schulz, in a study of patients treated with 5-FU, observed melanonychia in 14 of 64 patients (21.8%)¹³. Five of the 13 patients from the study by Pratt and Shanks¹⁴ on doxorubicin developed melanonychia, which are findings consistent with our results. The exact etiology of melanonychia is unknown. It is thought to follow the stimulation of matrix melanocytes via an inflammatory response to chemotherapy, leading to melanocyte activation and melanin deposition in the nail plate. In addition, an increase in adrenocorticotrophic hormone and melanocyte-stimulating hormone may enhance pigment production^{15–19}.

In addition to chromonychias, other alterations such as onycholysis were observed. Most studies agree that taxanes (docetaxel and paclitaxel) are the chemotherapeutic agents most frequently associated with onycholysis, likely due to direct toxic effects. However, mild-to-moderate onycholysis may

occur with other agents such as capecitabine, etoposide, cytarabine, cyclophosphamide, doxorubicin, cetuximab, erlotinib, lapatinib, afatinib, dacomitinib, trametinib, cobimetinib, selumetinib, everolimus, temsirolimus, ibrutinib, and vandetanib^{21–27}.

The pathophysiological mechanism of onycholysis in these patients is not clearly established. It may result from direct cytotoxic damage to epithelial cells of the nail bed, leading to epidermolysis and secondary loss of adhesion of the nail plate. Moreover, an antiangiogenic effect of taxanes has been proposed. Similarly, although some authors suggest a phototoxic mechanism for photo-onycholysis, this has not yet been confirmed^{21, 26, 28, 29}. Based on our findings, nail bed erythema may represent an early sign of impending onycholysis, as seen in 22 of 46 patients with erythema. While distal onycholysis is the most common form in the general population, in patients on chemotherapy, nail bed inflammation may generate detachment patterns differing from those seen in individuals without cancer treatment. In our study, onycholysis was identified in 33 patients, representing 25% of all nail changes. The drug class most frequently associated was tubulin-stabilizing agents (paclitaxel and docetaxel), which is consistent with the literature, followed by monoclonal antibodies, antimetabolites, and platinum complexes.

Finally, possible onychomycosis was suspected in 8 patients (7 were suspected to have distal lateral subungual onychomycosis based on clinical and dermoscopic findings and 1, endonyx onychomycosis). Mycological culture confirmed onychomycosis in 4 patients (confirmed with repeat culture), all involving non-dermatophyte fungi. Although these organisms may represent contaminants, we cannot rule out that separation between the nail plate and bed may facilitate colonization by pathogenic microorganisms contributing to onychomycosis. It seems reasonable to recommend nail care measures to patients at the beginning of cancer treatment to minimize the occurrence of onycholysis and prevent secondary onychomycosis.

In conclusion, nearly half of patients on chemotherapy exhibit nail alterations—diverse in nature but predominantly erythronychia and onycholysis—most commonly involving both fingernails and toenails. The increasing use of new cytotoxic agents highlights the need to recognize all nail alterations and provide appropriate management to relieve local symptoms. Dermoscopy helps identify lesions at an earlier stage and enables earlier intervention, which may be especially relevant for infection-prevention strategies in the setting of onycholysis. Proper patient counseling supports treatment adherence and may help achieve the optimal duration of chemotherapy, thereby improving response rates and avoiding treatment interruptions.

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Ética de la publicación

1. ¿Su trabajo ha comportado experimentación en animales?:

No

2. ¿En su trabajo intervienen pacientes o sujetos humanos?:

Sí

Si la respuesta es afirmativa, por favor, mencione el comité ético que aprobó la investigación y el número de registro.:

CEIC de la Fundación Instituto Valenciano de Oncología V1 13-03-2018

Si la respuesta es afirmativa, por favor, confirme que los autores han cumplido las normas éticas relevantes para la publicación. :

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Si la respuesta es afirmativa, por favor, confirme que los autores cuentan con el consentimiento informado de los pacientes. :

Sí

3. ¿Su trabajo incluye un ensayo clínico?:

No

4. ¿Todos los datos mostrados en las figuras y tablas incluidas en el manuscrito se recogen en el apartado de resultados y las conclusiones?:

Sí

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Figure 1. Chart showing the proportion of cases according to the location of affected nails.

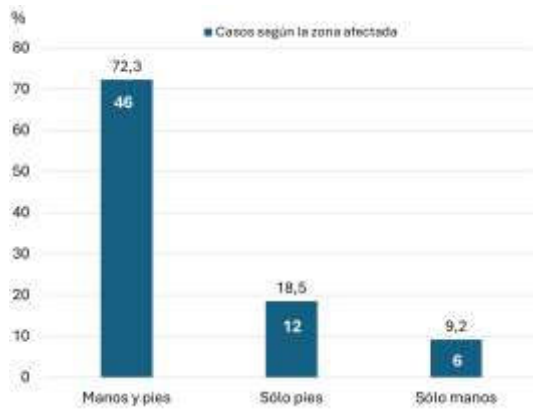


Figure 2. Examples of nail changes in the study sample.

Image 1. Globular-pattern erythronychia. Image 2. Erythronychia, Beau's line, and diffuse pigmentation. Image 3. Globular-pattern erythronychia. Image 4. Progression of globular erythema in a patient 2 months into chemotherapy: increased purplish area and onycholysis. Image 5. Red lunula. Image 6. Peri-lunular erythema. Image 7. Capillary dilatation in the nail bed. Image 8. Linear longitudinal erythema (longitudinal erythronychia). Image 9. Proximal diffuse nail-bed erythema. Image 10. Distal diffuse nail-bed erythema.



Table 1. Frequency of Tumor Location

Carcinoma	Frequency	Percentage
Breast	45	32.1
Colon	2	1.4
Ovary	7	5.0
Bladder	13	9.3
Melanoma	3	2.1
Renal	2	1.4
Colon	13	9.3
Gastric	4	2.9
Pancreas	9	6.4
Endometrium	1	0.7
Cervix	4	2.9
Head and neck	6	4.3
Lung	21	15.0
Non-Hodgkin lymphoma	3	2.1
Soft-tissue sarcoma	2	1.4
Esophagus	1	0.7
Prostate	4	2.9
Total	140	100

Table 2. Frequency of the Most Common Nail Changes due to Chemotherapy

Nail alteration	Number of patients	Percentage	Associated drug class
Erythronychia	46	36.4%	Monoclonal antibodies (n = 17) Tubulin-stabilizing agents (n = 15) Antimetabolites (n = 13) Platinum complexes (n = 12) Antibiotics (n = 4) Topoisomerase inhibitors (n = 4) Alkylating agents (n = 2)
Other chromonychia (leukonychia, melanonychia, purpura)	35	23.6% Leukonychia 9.3% Petechia/purpura 7.9% Melanonychia 6.4% Xanthonychia 2.9%	Monoclonal antibodies (n = 13) Tubulin-stabilizing agents (n = 12) Platinum complexes (n = 9) Antimetabolites (n = 7) Topoisomerase inhibitors (n = 4) Corticosteroids (n = 2) Antibiotics (n = 1) Immunotherapy (n = 1)
Onycholysis	33	25%	Tubulin-stabilizing agents (n = 14) Monoclonal antibodies (n = 11) Antimetabolites (n = 8) Platinum complexes (n = 7) Antibiotics (n = 3) Alkylating agents (n = 2) Topoisomerase inhibitors (n = 1) Corticosteroids (n = 1)

Table 3. Number of Patients Who Developed Erythronychia Under Different Chemotherapy Protocols

Chemotherapy protocol	Lesion onset	Number of patients (n = 46)	Percentage	Type of erythronychia (dermoscopic pattern)
Paclitaxel (n = 7)	Cycle 1 and/or 3			
Bevacizumab (n = 3)	Cycles 1 and 6			
Carboplatin + Paclitaxel (n = 3)	Cycle 1 and 2			
Irinotecan (n = 2)	Cycle 3			
Capecitabine (n = 2)	Cycle 2			
Rituximab + Vincristine (n = 2)	Cycle 3			
Nivolumab (n = 2)	Cycles 2 and 10			
Trastuzumab + Paclitaxel (n = 2)	Cycle 1 and 2	35	76%	Diffuse erythema (Image 7)
Cemiplimab (n = 1)	Cycle 3			
Oxaliplatin (n = 2)	Cycle 2			
Gemcitabine (n = 1)	Cycle 1 and 4			
Pembrolizumab (n = 1)	Cycle 3			
Pemetrexed (n = 1)	Cycle 2			
Enfortumab (n = 1)	Cycle 2			
Atezolizumab (n = 1)	Cycle 5			

Chemotherapy protocol	Lesion onset	Number of patients (n = 46)	Percentage	Type of erythronychia (dermoscopic pattern)
Cisplatin (n = 1)	Cycle 2			
Calcium folinate + 5-FU (n = 1)	Cycle 2			
Paclitaxel (n = 2)	Cycle 2	2	4.3%	Peri-lunular or lunular erythema (Images 3 and 4)
Doxorubicin (n = 1)	Cycle 2	2	4.3%	Capillary dilatations (Image 5)
Cisplatin (n = 1)	Cycle 2			
Trastuzumab (n = 1)	Cycle 2			
Paclitaxel (n = 2)	Cycle 1			
Calcium folinate + 5-FU (n = 1)	Cycle 2	5	10.8%	Linear erythema (Image 6)
Carboplatin (n = 1)	Cycle 1			
Cetuximab (n = 1)	Cycle 4	2	4.3%	Globular erythema (Images 1 and 2)
Docetaxel (n = 1)	Cycle 2			

Table 4. Frequency of Other Chromonychia Under Different Chemotherapy Protocols

Chemotherapy protocol	Lesion onset	Patients with color changes (n = 35)	Percentage	Type of discoloration
Aflibercept + Irinotecan (n = 1)	Cycle 2			
Bevacizumab (n = 2)	Cycles 1 and 6			
Paclitaxel + Dexamethasone (n = 2)	Cycle 2	9	69.2%	Melanonychia
Trastuzumab + Paclitaxel (n = 2)	Cycle 2			
Doxorubicin (n = 1)	Cycle 2			
Nivolumab (n = 1)	Cycle 3			
Paclitaxel (n = 1)	Cycle 2			
Cabazitaxel (n = 1)	Cycle 2			
Cetuximab + Irinotecan (n = 2)	Cycle 3			
Oxaliplatin + 5-FU (n = 1)	Cycle 4	11	84.6%	Apparent leukonychia
Cisplatin (n = 2)	Cycle 2			
Carboplatin + Gemcitabine (n = 1)	Cycle 2			
Irinotecan + 5-FU (n = 2)	Cycles 3 and 5			
Pembrolizumab (n = 1)				
Enfortumab (n = 1)	Cycle 5			
Nivolumab (n = 1)	Cycle 10	3	23%	True leukonychia
Carboplatin + Paclitaxel (n = 1)	Cycle 2			
Paclitaxel (n = 2)	Cycles 1 and 2			
Doxorubicin (n = 1)	Cycle 2			
Cemiplimab (n = 1)	Cycle 3			
Trastuzumab (n = 4)	Cycle 2	12	92.3%	Diffuse pigmentation (purpura)
Rituximab + Vincristine (n = 1)	Cycle 3			
Cetuximab (n = 3)	Cycle 4			

Table 5. Number of Patients Who Developed Onycholysis Under Different Chemotherapy Protocols

Chemotherapy protocol	Lesion onset	Patients with onycholysis (n = 33)	Percentage	Type of onycholysis (dermoscopic pattern)
Cisplatin (n = 3)	Cycle 2			
Carboplatin (n = 3)	Cycle 2			
Gemcitabine (n = 1)	Cycle 6			
Capecitabine (n = 1)	Cycle 1			
Bevacizumab (n = 1)	Cycle 6	25	75.7%	Regular-border onycholysis
Paclitaxel (n = 11)	Cycles 1 and 3			
Polatuzumab + Rituximab (n = 1)	Cycle 6			
Trastuzumab (n = 4)	Cycles 2 and 7			
Paclitaxel (n = 2)	Cycle 1			
Cemiplimab (n = 1)	Cycle 3			
Cetuximab (n = 1)	Cycle 4			
Doxorubicin + Cyclophosphamide (n = 2)	Cycles 1 and 2	8	24.3%	Irregular-border onycholysis
Docetaxel (n = 1)	Cycle 2			
Oxaliplatin (n = 1)	Cycle 6			
	Cycle 1			

Table 6. Characteristics of Patients With Suspected Onychomycosis (n = 8)

Chemotherapy protocol	Clinical suspicion of onychomycosis	Dermoscopy pattern	Culture result	Biopsy result
Nivolumab	DLSO	Irregular-border onycholysis Xanthonychia Nail-bed erythema	Negative	Negative
Paclitaxel	DLSO	Irregular-border onycholysis Xanthonychia	Negative	Positive

Chemotherapy protocol	Clinical suspicion of onychomycosis	Dermoscopy pattern	Culture result	Biopsy result
Gemcitabine	DLSO	Regular-border onycholysis Subungual hyperkeratosis	Negative	Negative
Docetaxel	DLSO	Irregular-border onycholysis Nail-bed erythema	<i>Fusarium spp</i>	Negative
Oxaliplatin + Bevacizumab	DLSO	Irregular-border onycholysis	<i>Aspergillus terreus</i>	Negative
Cisplatin + Pemetrexed	Endonyx	Xanthonychia	<i>Aspergillus versicolor</i>	Negative
Trastuzumab + Paclitaxel	DLSO	Regular-border, erythematous onycholysis Ruin sign	Negative	Positive
Rituximab + Vincristine	DLSO	Irregular-border onycholysis Ruin sign	<i>Fusarium spp</i>	Negative

DLSO: Distal lateral subungual onychomycosis

TRADUCCIÓN DE LA FIGURA 1

Casos según la zona afectada

Manos y pies

Solo pies

Solo manos

72,3

18,5

9,2

Cases by affected area

Hands and feet

Feet only

Hands only

72.3

18.5

9.2

TRADUCCIÓN DE LA FIGURA-RESUMEN

Hallazgos dermatoscópicos de los efectos adversos ungueales en pacientes oncológicos. Estudio observacional de 140 pacientes.

Objetivo del estudio

Describir la dermatoscopia de los principales efectos adversos ungueales de la quimioterapia según el fármaco empleado y el momento de su aparición.

Método

Estudio observacional prospectivo.

Pacientes consecutivos atendidos en el hospital de día

Mayo 2023-Julio 2023

Dermoscopy findings of nail adverse effects in oncology patients. Observational study of 140 patients.

Study endpoint

To describe the dermoscopic features of the main chemotherapy-related nail adverse effects according to the drug used and the timing of their appearance.

Method

Prospective observational trial.

Consecutive patients seen in the day hospital

May 2023–July 2023

Exploración clínica ungueal

Examen de laboratorio

Hallazgos dermatoscópicos.

64/140 (45,7%) pacientes con alteraciones ungueales.

Sólo manos

Sólo pies

Nail clinical examination

Laboratory testing

Dermoscopy findings

64/140 (45.7%) patients exhibited nail alterations.

Hands only

Feet only:

Hallazgo mas frecuente

→ cromoniquias → eritroniquia.

- Sin lesiones
- Manos y pies

Fármacos más relacionados:

anticuerpos

monoclonales

seguidos de los fijadores de la tubulina.

Conclusión

El empleo del dermatoscopio ayuda a identificar lesiones en estadios tempranos, especialmente la eritroniquia que anticipa una onicólisis.

22/46 de las eritroniquias evolucionaron a onicólisis

Most frequent finding:

→ chromonychias → erythronychia.

- No lesions
- Hands and feet

Most related drug classes:

monoclonal antibodies

followed by tubulin-stabilizing agents.

Conclusion

The use of dermoscopy helps identify lesions at early stages, especially erythronychia, which precedes onycholysis.

22/46 erythronychias progressed to onycholysis.