

## Dermoscopy of Early-Stage Mycosis Fungoides: Comparative Study with Inflammatory Dermatoses

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**Key words:** Mycosis fungoides, Psoriasis, Eczema, Dermoscopy, Dark phototype

**Citation:** Chabbouh A, Litaïem N, Hammami H, Mokni M, Zeglaoui F. Dermoscopy of Early-Stage Mycosis Fungoides: Comparative Study with Inflammatory Dermatoses. *Dermatol Pract Concept*. 2025;15(1):4693. DOI: <https://doi.org/10.5826/dpc.1501a4693>

**Accepted:** September 4, 2024; **Published:** January 2025

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**Funding:** None.

**Competing Interests:** None.

**Authorship:** All authors have contributed significantly to this publication.

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### ABSTRACT

**Introduction:** The diagnosis of early-stage mycosis fungoides (MF) is challenging and may be confused with plaque psoriasis (PP) and chronic dermatitis (CD).

**Objectives:** Our study aimed to describe the dermoscopic features of early-stage MF and compare them with PP and CD.

**Methods:** This was a multicenter cross-sectional study conducted in three tertiary referral dermatology departments in Tunisia between January 2021 and December 2021, including 89 patients with phototype III-V. For all patients, up to three representative cutaneous lesions were selected and examined using dermoscopy. Both clinical and dermoscopic photos were recorded for each selected lesion. Dermoscopic photos were interpreted by two independent evaluators.

**Results:** Vascular structures significantly associated with the diagnosis of early-stage MF included polymorphic, coiled, serpentine, and linear vessels, in an unspecific distribution. Perpendicular white lines, white circles, and spermatozoa-like vessels were only noted in MF. Branched vessels were only observed in granulomatous MF. Conversely, monomorphous vessels in uniform distribution were associated with PP, whereas CD was associated with monomorphous vessels with unspecific distribution. Non-vascular structures associated with the diagnosis of MF included reticular lines, orange background color, and structureless areas. Pink background was more prevalent in PP and CD. Additionally, yellow clods were more frequently observed in patients with CD.

**Conclusions:** This study highlights the characteristic dermoscopic features of early-stage MF compared with PP and CD. Perpendicular white lines, white circles, and spermatozoa-like vessels were only seen in MF. Follicular plugs and clods were features of folliculotropic MF and can help guide skin biopsy sites in difficult cases.

## Introduction

Mycosis fungoides (MF) is the most prevalent cutaneous T-cell lymphoma, accounting for 50% to 54% of all cases [1–3]. Early-stage MF can be difficult to differentiate from inflammatory skin diseases such as plaque psoriasis (PP) and chronic dermatitis (CD) [4,5]. Only a few studies have reported the use of dermoscopy for the differential diagnosis of these skin disorders, enrolling mainly patients with fair skin. Our study aimed to describe the dermoscopic features of early-stage MF and compare these characteristics with those observed in PP and CD in patients with phototype III-V.

## Methods

The study was initiated following approval from the Institutional Review Board, Charles Nicolle Hospital (approval letter available in Mendeley Data; <https://doi.org/10.17632/r9xfjgsyrx.1>). All participants provided written informed consent.

### Patient Selection

This was a multicenter cross-sectional study conducted in three tertiary referral dermatology departments in Tunisia (Charles Nicolle Hospital, La Rabta Hospital, and Habib Thameur Hospital) between January 2021 and December 2021. It involved 89 patients with phototype III–V and early-stage MF, PP, or CD. Only patients with confirmed diagnosis of early-stage MF (Ia, Ib, IIa) based on histopathological and immunohistochemical features were considered for inclusion. Patients under age 18 and those with exclusive involvement of the scalp, soles, palms, nails, elbows, or knees were excluded, as were cases of generalized pustular psoriasis, erythrodermic psoriasis, guttate psoriasis, and psoriatic arthritis.

### Dermoscopic Analysis

For all included patients, up to three representative cutaneous lesions were selected and examined using dermoscopy (DermLite DL4<sup>®</sup>, 3GEN, US). Both clinical and dermoscopic photos were recorded for each selected lesion. Dermoscopic photos were interpreted by two independent evaluators (AC and NL). Any discrepancy was resolved by consensus.

Consensual dermoscopic terminology by the International Dermoscopy Society was used [6, 7]. Descriptive terminology

was preferably adopted. Based on this consensual terminology, vascular structures were described as dots, clods, linear, coiled, looped, serpentine, helical, curved, monomorphous, or polymorphous vessels. These vessels could be arranged in nine patterns: radial, serpiginous, branched, centered dots, uniform, clustered, peripheral, reticular, and nonspecific. Scales were described in four distinct patterns: diffuse, central, peripheral, or patchy. Follicular features consisted of follicular plugs, follicular red dots, perifollicular white coloration, and perifollicular pigmentation. A few metaphorical terms were employed when intuitive descriptive equivalents were lacking, including spermatozoa vessels, linearly arranged scales, spicules, short hairs, and coiled hairs.

### Statistical Analysis

All data were electronically compiled and analyzed using IBM SPSS version 19. T-test and Chi-squared test were respectively employed for comparison of continuous or parametric variables, and Fisher's exact bilateral test was employed in case of invalidity of the Chi-squared test. Data supporting this study are available in Mendeley Data (<https://doi.org/10.17632/r9xfjgsyrx.1>). A p-value of less than 0.05 was considered significant.

## Results

Eighty-nine patients with early-stage MF (38%), PP (43%), or CD (19%) were enrolled. Demographic and clinical characteristics of included patients are summarized in Table 1.

Dermoscopic features of early-stage MF, PP, and CD are described in Table 2. Vascular structures significantly associated with the diagnosis of early-stage MF included polymorphic (65% in MF vs 4% in PP and CD,  $P < 0.001$ ), coiled (16% in MF vs 2% in PP and CD,  $P = 0.005$ ), serpentine (19% in MF vs 0 in PP and CD,  $P < 0.001$ ), and linear vessels (60% in MF vs 0 in PP and CD,  $P < 0.001$ ) in an unspecific distribution (74% in MF vs 25% in PP and CD,  $P < 0.001$ ) (Table 3). Branched vessels were only seen in granulomatous MF. Conversely, monomorphous vessels in uniform distribution were associated with PP, whereas CD was associated with monomorphous vessels with unspecific distribution.

Non-vascular structures associated with the diagnosis of MF included reticular lines (37% in MF vs 0% in PP and CD,  $P < 0.001$ ), orange background color (35% in MF vs

**Table 1. Clinical Characteristics of Included Patients.**

	Early-stage Mycosis fungoides (N=34) N, (%)	Plaque Psoriasis (N=37) N, (%)	Chronic Dermatitis (N=18) N, (%)
Number of selected lesions	43	38	18
<b>Sex</b>			
Female	19 (56)	13 (35)	10 (56)
Male	15 (44)	24 (65)	8 (44)
Median age (year)	48	52	30
<b>Disease duration</b>			
Median (week)	17	13	4
Min-max	1-104	1-108	2-108
<b>Body surface area</b>			
Min-max	2- 40%	1-60%	1-23%
<b>Type of MF</b>			
Classic form	20 (47)		
Folliculotropic	10 (23)		
Hypopigmented	7 (16)		
Hyperpigmented	4 (9)		
Granulomatous	2 (5)		
<b>Stage</b>			
IA	28 (65)		
IB	15 (35)		
IIA	0		

**Table 2. Dermoscopic Findings.**

	Early-stage Mycosis fungoides (N, %)	Plaque Psoriasis (N, %)	Chronic Dermatitis (N, %)
<b>Vessel type</b>			
Dots	29, 85	37, 100	17, 100
Linear	26, 77	1, 3	-
Spermatozoa-like vessels	41%	-	-
Polymorphic	28, 82	2, 5	-
Monomorphous	6, 18	35, 95	17, 100
Serpentine	14, 24	-	-
Coiled	7, 21	1, 3	-
<b>Vessel arrangement</b>			
Uniform	-	36, 97	2, 12
Nonspecific	32, 94		14, 82
Clustered	-	1, 3	1, 6
Branched	2, 6	-	-
<b>Scale color</b>			
White	33, 97	29, 91	11, 85
Yellow	1, 2	3, 9	2, 15
<b>Scale arrangement</b>			
Diffuse	1, 3	29, 91	1, 8
Patchy	33, 97	3, 9	12, 92

*Table2 continues*

**Table 2. Dermoscopic Findings. (continued)**

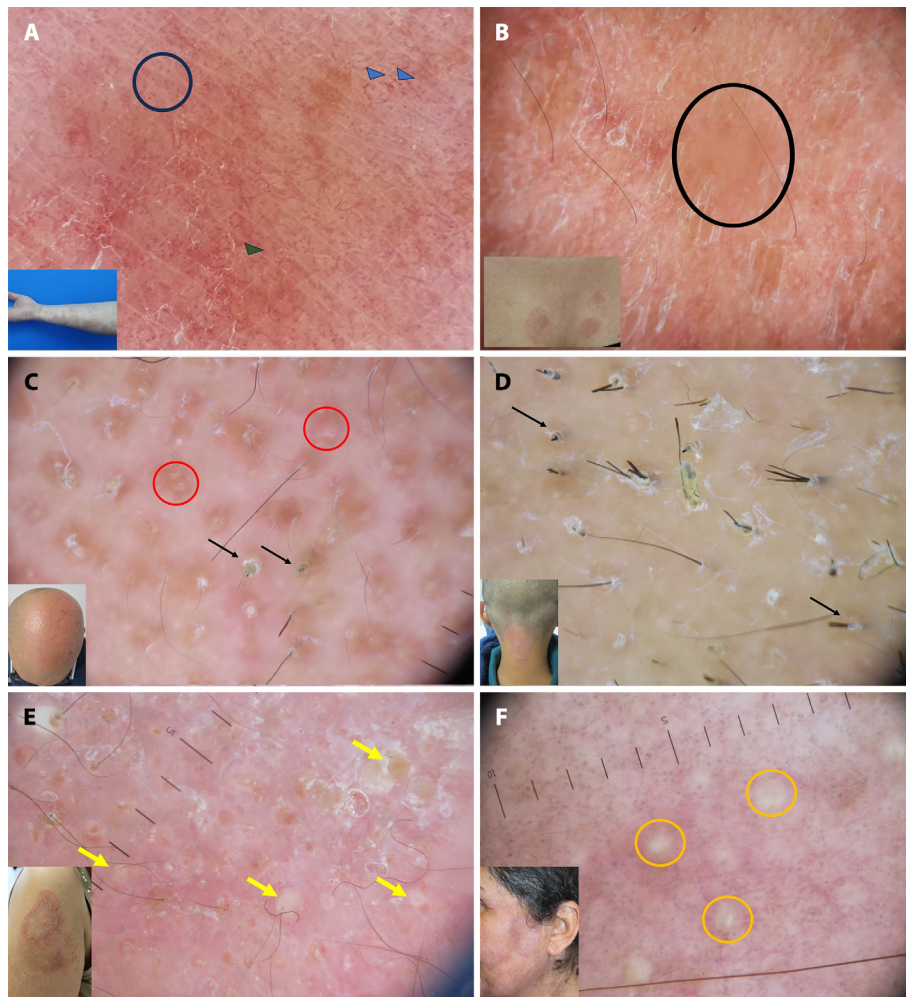
	Early-stage Mycosis fungoides (N, %)	Plaque Psoriasis (N, %)	Chronic Dermatitis (N, %)
Linear scales	3, 9	5, 13	2, 11
<b>Structureless area color</b>			
Orange	2, 5	-	-
White	8, 19	-	-
Yellow	-	-	1, 6
<b>Background color</b>			
Red	1, 2	3, 8	-
Orange	15, 35	2, 5	-
Yellow	1, 2	-	-
Pink	23, 54	33, 87	18, 100
<b>Follicular structures</b>			
Follicular spicules	6, 14	-	-
Follicular plugs	5, 12	-	-
Perifollicular white color	3, 7	-	-
Perifollicular pigmentation	1, 2	-	-
Comedo-like openings	3, 7	-	-
Dystrophic hairs	3, 7	-	-
<b>Lines</b>			
Reticular lines	16, 37	-	-
Perpendicular white lines	1, 2	-	-
<b>Clods color</b>			
White	7, 19	4, 11	-
Yellow- orange	10, 23	-	17, 100
Gray	1, 2	-	-
Circle	2, 5	-	-

**Table 3. Dermoscopic Signs associated with Mycosis Fungoides as compared with Psoriasis and Eczema.**

	Mycosis fungoides group	Psoriasis and eczema groups	P-value	Sensitivity (%)	Specificity (%)
<b>Vessels</b>					
Coiled vessels	7/34	1/56	0.003	20.59	98.15
Serpentine vessels	8/34	0/56	<0.001	23.53	100
Branched vessels	2/34	0/56	0.071	5.88	100
Spermatozoa-like vessels	14/34	0/56	<0.001	41.18	100
Polymorphous vessels	28/34	2/56	<0.001	82.35	96.3
<b>Vessel arrangement</b>					
Nonspecific distribution	32/34	14/56	<0.001	94.12	74.07
<b>Follicular structures</b>					
Spikes	6/34	0/56	0.01	17.65	100
Follicular plugs	5/34	0/56	0.009	14.71	100
Comedo-like openings	3/34	0/56	0.05	8.82	100
Dystrophic hair	3/34	0/56	0.05	8.82	100

**Table 3.** Dermoscopic Signs associated with Mycosis Fungoides as compared with Psoriasis and Eczema. (continued)

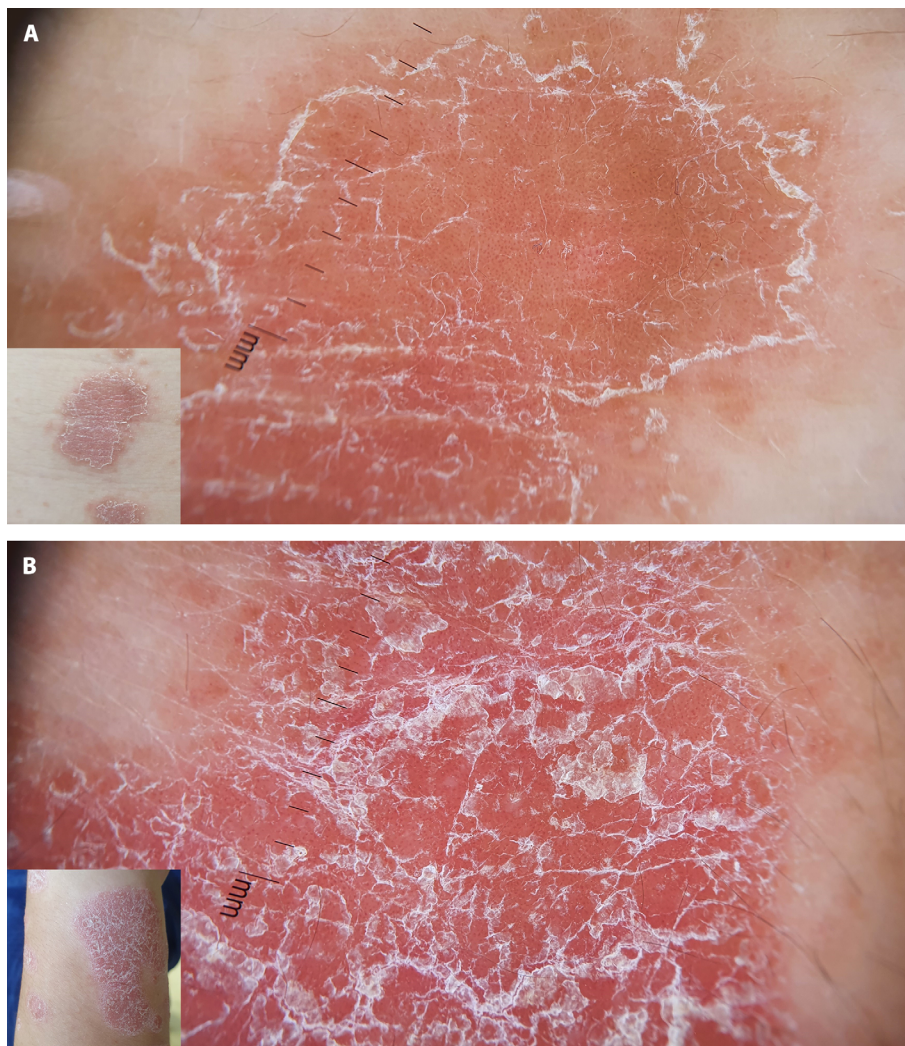
	Mycosis fungoides group	Psoriasis and eczema groups	P-value	Sensitivity (%)	Specificity (%)
<b>Other dermoscopic features</b>					
Structureless areas	10/34	1/56	0.001	23.26	98.21
Reticular lines	16/34	0/56	<0.001	37.21	100
Orange background color	15/34	0/56	<0.001	44.12	100



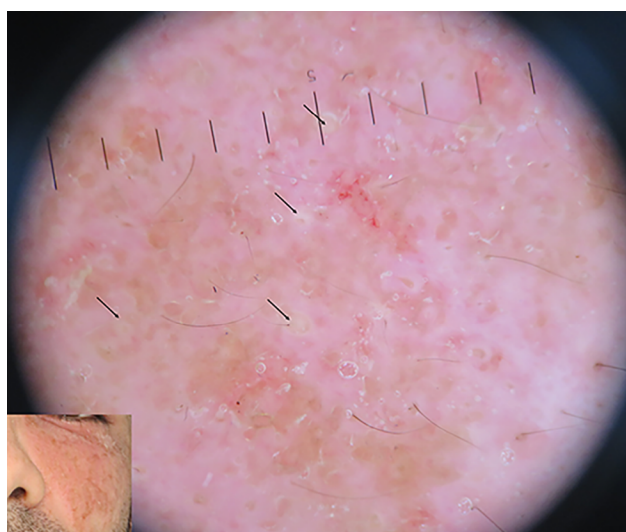
**Figure 1.** Dermoscopic images. A, B) Plaque-type mycosis fungoides on the forearm (A) and trunk (B). A) orange background, dotted vessels (blue circles), linear vessels (blue arrow), spermatozoa-like vessels (green arrow). B) Orange structureless area (black circle). C,D,E,F) Folliculotropic mycosis fungoides on the scalp (C,D), arm (E), and face (F). C) Perifollicular erythema (red circles), scales, and broken hairs (black arrow). D) dystrophic and broken hair (black arrow). E) multiple follicular white and yellow clods (yellow arrow). F) white clods (orange circles) corresponding to follicular mucinosis associated with gray dots related to pigmentary incontinence.

4% in PP and CD,  $P < 0.001$ ), and structureless areas (23% in MF vs 2% in PP and CD,  $P = 0.001$ ) (Figure 1). Pink background color was more prevalent in PP (87% in PP vs 67% in MF and CD,  $P = 0.002$ ) and CD (100% in CD vs 69% in MF and PP,  $P = 0.003$ ) (Figures 2 and 3). Additionally, in patients with CD, yellow clods were more frequently observed (94% in CD vs 10% in MF and CD,  $P < 0.001$ ).

Spermatozoa-like vessels, follicular plugs, comedo-like openings (Figure 1), spicules, dystrophic hairs, perifollicular hypo- or - hyperpigmentation, circles, reticular lines, and perpendicular white lines were exclusively observed in the MF group (Table 3). Notably, there was a significant association between folliculotropic MF and the presence of follicular clods ( $P = 0.009$ ) and follicular plugs ( $P = 0.008$ ).



**Figure 2.** Dermoscopic aspects of plaque psoriasis showing regular distribution of red dots and white scales. White scales are peripheral (A) or diffuse (B).



**Figure 3.** Dermoscopy of eczema on the cheeks showing multiple yellow clods (black arrow) and clustered red dots.

## Discussion

Our findings highlight a significant association between early-stage MF and polymorphic, coiled, tortuous, spermatozoa-like, and linear vessels with unspecific distribution as well as structureless areas, reticular lines, and orange background color. Notably, dermoscopic features related to hair follicle involvement were associated and/or exclusively noted in early-stage MF, namely follicular clods or plugs, spicules, dystrophic hair, and perifollicular hypo- or hyperpigmentation.

Our results are consistent with previous findings. The most commonly described dermoscopic features of early-stage MF were spermatozoa-like vessels, linear vessels in an unspecific distribution, and orange-yellow structureless areas. The background color was mostly pink followed by orange [5,8–15]. Our study identified exclusive dermoscopic

features in MF, including perpendicular white lines, white circles, and spermatozoa-like vessels. Branched vessels were identified in 29.4% of cases in the study of Ozturk et al. [12]. Soliman et al. noted the presence of branched vessels in all cases of poikilodermatous (four cases) and folliculotropic MF (four cases) [15]. Conversely, Bosseila M et al. reported branched vessels only in cases of poikilodermatous MF [16]. These findings were consistent with our results. In our study, branched vessels were exclusively observed in granulomatous MF. Errichetti et al, in a study enrolling 118 cases of MF including tumoral (28 cases), patch-type (24 cases), plaque-type (23 cases), erythrodermic (nine cases), folliculotropic (26 cases), and poikilodermatous MF (eight cases), highlighted other specific dermoscopic signs of MF, including a higher prevalence of white scales and the presence of curved vessels [17]. Histologically, capillaries proliferate vertically along the dermal papillae and extend horizontally within the subpapillary dermis in MF. On dermoscopy, linear vessels correspond to the vessels horizontally distributed parallel to the epidermis, while spermatozoa-like vessels correspond to both horizontal and vertical vessels that appear connected [5].

In folliculotropic MF, perifollicular white color is an early sign suggestive of folliculotropic involvement [18]. The lack of hair and dilated follicles are more commonly associated with folliculotropic MF [17]. Soliman et al. noted the presence of blue-gray clods in folliculotropic MF [15]. In our study, the most frequently observed features of folliculotropic MF were clods, spicules, and follicular plugs. The presence of spicules was clinically observed in two studies comprising eight and 20 cases of folliculotropic MF, respectively [19,20]. These dermoscopic findings not only allow differentiation between MF and other inflammatory dermatoses but can also guide therapeutic decisions towards more targeted treatments [21–23]. Indeed, folliculotropic MF often requires more aggressive treatment targeting the deep structures of the skin.

In our study, characteristic dermoscopic signs of PP were uniformly distributed dotted vessels with a pink background color. These findings were consistent with previous reports [5,12,24]. Linear vessels are rarely encountered in PP (4% of cases) [24]. Radially arranged dotted vessels correspond histologically to the proliferation of blood capillaries within regularly elongated dermal papillae [25]. The typical dermoscopic features with CD are nonspecifically arranged dotted vessels, associated with yellow or white scales, in a pink or red background color [5,13]. Yellow clods, corresponding histologically to spongiosis, were initially described by Navarini et al. [26] and have been found in subsequent studies [14,24].

This study identified characteristic dermoscopic features of early-stage MF. The main limitation was the absence of data regarding particular locations, such as the scalp, soles, palms, nails, elbows, or knees. Those locations were excluded to obtain a homogenous series and to avoid biases. Furthermore, due to the uncommon nature of MF, our cohort primarily included previously diagnosed patients and repeating biopsies was not necessary. Therefore, the evaluation of dermoscopic and histopathological correlation was not possible.

In conclusion, this multicenter comparative study identified the dermoscopic aspects that help differentiate MF from inflammatory dermatosis. Interestingly, the existence of follicular plugs and clods are features of folliculotropic MF and can help guide skin biopsy sites in difficult cases.

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