

Named signs and metaphoric terminologies in dermoscopy: A compilation

Anupam Das, Bhushan Madke¹, Deepak Jakhar², Shekhar Neema³, Ishmeet Kaur², Piyush Kumar⁴, Swetalina Pradhan⁵

Department of Dermatology, KPC Medical College and Hospital, Kolkata, West Bengal, ¹Department of Dermatology, Jawaharlal Nehru Medical College, Datta Meghe Institute of Medical Sciences, Sawangi, Wardha, Maharashtra, ²Department of Dermatology, North DMC Medical College and Hindu Rao Hospital, New Delhi, ³Department of Dermatology, Armed Forces Medical College, Pune, Maharashtra, ⁴Department of Dermatology, Katihar Medical College, Katihar, ⁵Department of Dermatology, All India Institute of Medical Sciences, Patna, Bihar, India.

Introduction

Dermoscopy is one of the most fascinating aspects of modern dermatology. It is a non-invasive bedside technique which facilitates the diagnosis of many common and uncommon dermatological conditions. Being an evolving technique, the dermoscopic features of various dermatoses have been traditionally described using multiple metaphoric terminologies and named signs. These metaphors and signs were intended to help memorize the newly introduced dermoscopic features. This article intends to enumerate and briefly describe the named signs and appearances in dermoscopy which will benefit the residents. To simplify, we have classified dermatoses as nevi, malignancies, infections and infestations (entomodermscopy), pigmentary disorders, vascular disorders, papulosquamous disorders, hair (trichoscopy) and nail (onychoscopy) disorders.

Dermoscopic Signs in Nevi and Malignancies

Dermoscopy has remarkable diagnostic accuracy for benign and malignant skin tumours. Lesional dermoscopic examination may be helpful in avoiding unnecessary intervention. Melanocytic and non-melanocytic tumours show a specific pattern recognized by dermoscopy [Figures 1-4]. Some patterns such as “maple leaf appearance” and “blue-gray ovoid nests” are specific while others remain indicative. Dermoscopic signs should be clinically correlated to reach a final diagnosis. Metaphoric terminologies may help in the easy recall of signs associated with a particular

disease, however, it may also mislead the physician as similar dermoscopic appearances have been reported in multiple diseases. Table 1 describes the signs and patterns observed in various benign and malignant skin tumours.

Dermoscopic Signs in Infections and Infestations

Recently, dermoscopy is being utilized to diagnose infections and infestations (entomodermscopy) [Figures 5 and 6]. The classical “Delta wing-jet with contrail sign” is the hallmark of scabies, while newer signs and terminologies have been described to identify several bacterial, viral, fungal and other parasitic infections [Table 2].

Dermoscopic Signs in Pigmentation Disorders

Dermoscopy is immensely helpful for diagnosing pigmentary disorders (both hypopigmentary and hyperpigmentary conditions) as most conditions are difficult to differentiate clinically, and biopsy is not feasible due to patient reluctance for fear of post-inflammatory hyperpigmentation [Figures 7 and 8]. Some of the important signs in hyperpigmentary and hypopigmentary disorders are summarised in Table 3.

Dermoscopic Signs in Vascular Disorders

Dermatologists frequently encounter various vascular lesions (benign and malignant) and most of them are superficially distributed [Figure 9]. Dermoscopy of vascular lesions can highlight their vascular pattern and arrangement of blood vessels. Table 4 highlights the important dermoscopic signs and patterns observed in cutaneous vascular lesions.

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Corresponding author: Dr. Deepak Jakhar, Department of Dermatology, North DMC Medical College and Hindu Rao Hospital, New Delhi. dr.deepakjakhar@yahoo.in

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Table 1: Signs and patterns in melanocytic and non-melanocytic disorders

S. No.	Dermoscopic sign	Disease	Description
Melanocytic lesions			
1	Beauty and the beast sign ¹	Melanoma	Dermoscopy of benign melanocytic lesions is placed into nine categories and it generally fits into one of them and is considered "beauty." Melanoma symbolized by the "beast" is a melanocytic lesion that derives from one of the malignant patterns or deviates from benign pattern
2	Blue-white veil	Melanoma	Described as confluent blue pigmentation with an overlying white "ground-glass" haze [Figure 1]
3	Honeycomb-like pigment network	Junctional nevus	A regular homogeneous honeycomb-like pigment network thinning out at the periphery
4	Isobar sign ²	Lentigo maligna melanoma	The hair follicle openings show central black dot apart from granular pigment around the follicle known as annular granular pattern
5	Little red riding hood sign ¹	Amelanotic or hypomelanotic melanoma	This sign comes from a fairy tale in which the wolf disguises himself as the grandmother but can be still be recognized by his enormous teeth. It is used to describe an individual lesion that at first glance looks benign, but on closer inspection with dermoscopy shows features of a melanoma
6	Micro-Hutchinson sign ³	Subungual melanoma	Visible pigment on cuticle in case of melanonychia
7	Pseudo-micro-Hutchinson sign ⁴	Congenital nevi	Dark nail plate pigmentation is visible through the transparent nail fold specially in children
8	Starburst pattern ⁵	Spitz nevus	A hyperpigmented macule with regular peripheral pigmented streaks with central homogeneous pigmentation
Non-melanocytic lesion			
1	Arborizing telangiectasia	BCC, other benign lesions	Multiple branching blood vessels in a tree-like pattern. More easily visualised in the non-pigmented BCC
2	Blink sign ⁶	Actinic keratosis	Some dermoscopic structures are more prominent with non-polarised dermoscopy while others with polarised dermoscopy. ^{1,2} The hybrid dermoscope allows the user to toggle between polarised and non-polarised light result in "blink sign."
3	Chrysalis structures	Basal cell carcinoma, dermatofibroma, scars	White shiny linear streaks seen under polarised microscopy
4	Comedo-like opening	Seborrheic keratoses	Dark brown, gray- or black-coloured round to oval clefts containing keratin plug
5	Double edge sign ⁷	Bowen's disease	Two parallel pigmented edges at the periphery of the lesion
6	Finger print-like structures	Lentigo or early seborrheic keratosis	Thin light brown lines that do not interconnect to form a meshwork pattern
7	Jelly sign ⁸	Solar lentigo/flat seborrheic keratosis	Smudging of pigment in some areas on contact dermoscopy is called as jelly sign
8	Large blue-gray ovoid nests	Basal cell carcinoma	Well-circumscribed, pigmented ovoid or elongated areas that are not connected to the pigmented tumour body
9	Leaf-like areas or Maple leaf-like areas ⁹	Basal cell carcinoma	Discrete, bulbous extensions connected to base and forming a leaf-like pattern [Figure 2]
10	Milia-like cysts (stars in the sky appearance) ¹⁰	Seborrheic keratosis, congenital nevi	Round circumscribed, white to yellow structure better visualized on non-polarised dermoscopy
11	Mobility sign ¹¹	Epidermal cyst	In contact dermoscopy, when plate is shifted back and forth on the lesion with a slight pressure, nodular part of the lesion remains immobile while the overlying skin moves in same direction with the dermoscope plate
12	Moth eaten border ¹²	Solar lentigo/flat seborrheic keratosis	Concave invaginations at the border of the lesion
13	Pore sign ¹¹	Epidermal cyst	Highlights the barely visible punctum [Figure 3]
14	Ridges and fissures (cerebriform structures)	Seborrheic keratoses	Brain-like or cerebriform appearance with the grooves resembling "sulci" and the intervening ridges resembling surface "gyri" [Figure 4]
15	Rosette sign	Actinic keratosis, basal cell carcinoma, melanoma, discoid lupus erythematosus, molluscum	Four white points arranged as four-leaf clover. Non-specific, initially described in AK but seen in many conditions
16	Spoke wheel-like structures	Basal cell carcinoma	Radial projections surrounding a central darker point
17	Strawberry pattern ¹³	Actinic keratosis	Background erythema interrupted by multiple small keratin filled follicular ostia

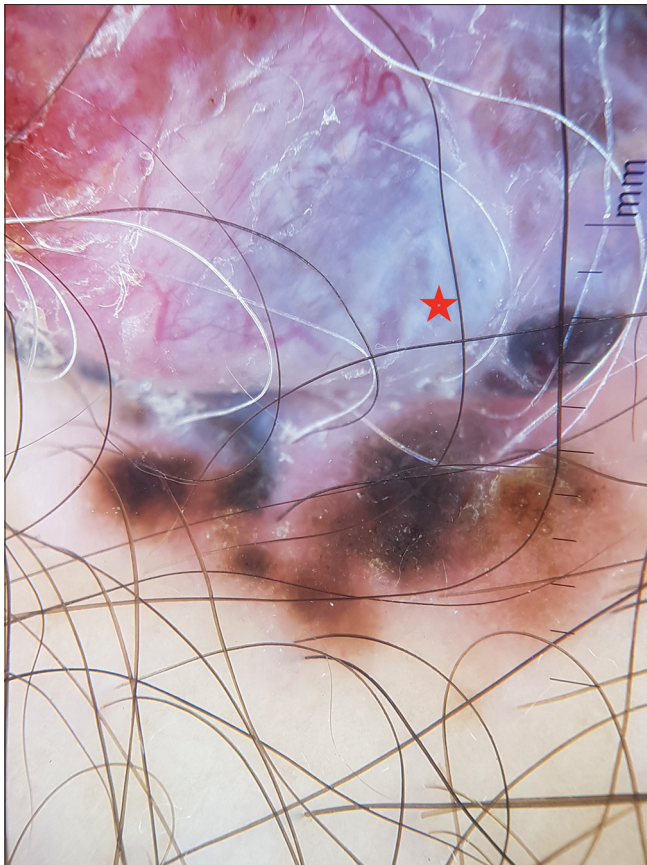


Figure 1: Blue-white veil (red star) in melanoma showing confluent blue pigmentation with an overlying white “ground-glass” haze (Dermlite DL4;×10;polarising)

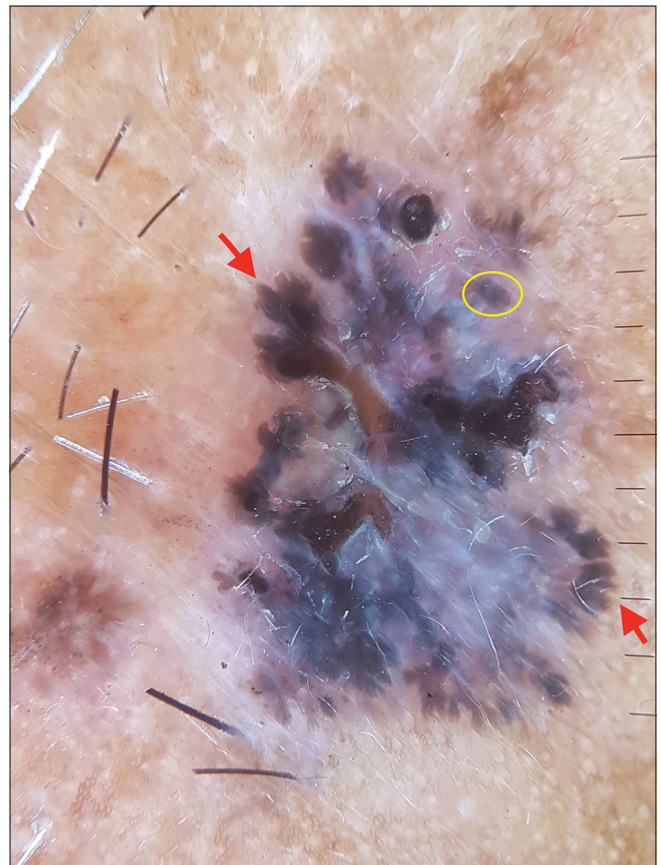


Figure 2: Maple leaf (red arrow) and blue-gray ovoid nest (yellow circle) in basal cell carcinoma showing discrete, bulbous extensions connected to base and forming a leaf-like pattern (Dermlite DL4;×10;polarising)

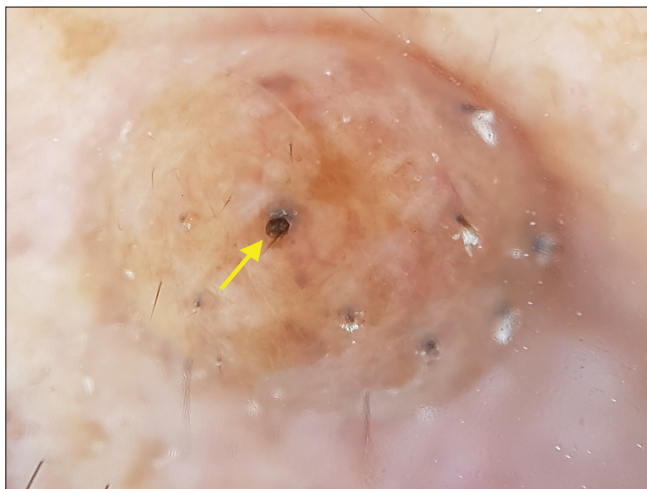


Figure 3: Pore sign (yellow arrow) in epidermal cyst showing the barely visible punctum (Dermlite DL4;×10;polarising)

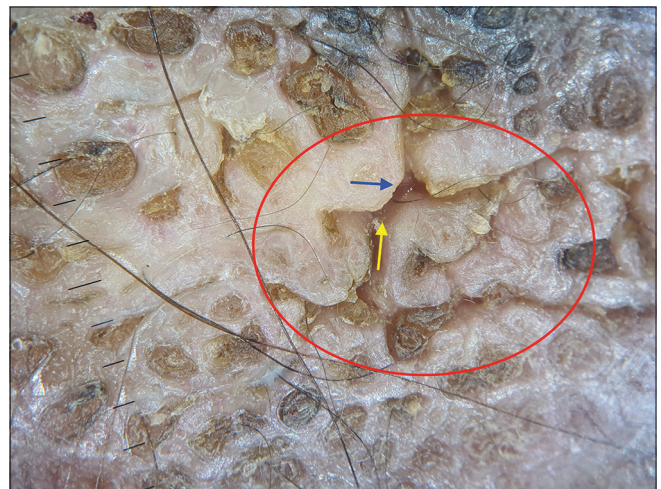


Figure 4: Sulci (yellow arrow) and gyri (blue arrow) in seborrheic keratosis showing cerebriform pattern (red circle) (Dermlite DL4;×10;non-polarising)

Table 2: Signs and patterns in infections

S. No.	Dermoscopic sign	Disease	Description
1	Bird's feet-like structures and thorn crown ¹⁴	Myiasis	Here, the posterior segment of the larva appears as creamy-white body with central bird's feet-like structures which correspond the breathing spiracles. The white structures are surrounded by black dots in the periphery, appearing as thorn crown
2	Contrast halo sign ¹⁵	Pityriasis versicolor	A halo of contrast to the central primary lesion of pityriasis versicolor. In hypopigmented variant, this contrast halo is a ring of increased pigmentation while in the hyperpigmented variant, the primary area of increased pigmentary network is surrounded by a halo of hypopigmentation [Figure 5]
3	Delta-wing jet with contrail sign ¹⁶	Scabies	It presents as a white S-shaped line (contrail) corresponding to the irregular burrow excavated by the mite, whose anterior part of the body is appreciated as a brown triangle resembling a delta wing jet
4	Demodex tail ^{17,18}	Demodicidosis Demodex dermatitis Spinulosis of face Pityriasis folliculorum Rosacea-like demodicidosis Granulomatous rosacea	Gelatinous, whitish-creamy 1–3mm long thread-like structure protruding out of the follicular opening. This feature signifies the presence of the mite and can be appreciated in more abundance in spinulosis of the face or pityriasis folliculorum, than other types of demodicidosis
5	Frog spawn appearance ^{19,20}	Common wart	Multiple densely packed papillae with a central red dot or loop surrounded by a whitish halo giving it an appearance of frog spawn
6	Hang glider sign/triangular head ^{16,19,21}	Scabies	It appears as a brown triangle that corresponds to the anterior section of the mite which includes the head and the two anterior pairs of legs of the mite
7	Mite-Gallery Unit (MGU) ²²	Scabies	MGU is divided into three parts: The head hosting the mite; the body which represents what is clinically defined as the burrow containing the eggs and feces of the parasite; and the tail at the end of the tunnel which provides an incomplete structure as it is without a roof but is made of keratin collarettes
8	Morse code hair ²³	Tinea incognito Tinea capitis	Multiple horizontal bands of fungal invasion invellus hairs by masses of arthroconidia formed at intervals. The masses of arthroconidia are separated by thinner fragments of hyphae [Figure 6]
9	Mosaic pattern ¹⁹	Genital wart	Presence of groups of dotted or glomerular vessels at centre with a surrounding whitish network
10	Noodle sign ²⁴	Norwegian scabies	It represents an accumulation of hundreds of burrows
11	Red corona/corona-like vessels ^{25,26}	Molluscum contagiosum	A central pore or umbilication with polylobular white to yellow amorphous structures surrounded by linear, fine telangiectatic vessels
12	Reniform and hairpin loop structures ²⁷	Myiasis	These represent the larva which appear as multiple, mobile, creamy white structures with reniform centers. Each reniform centre consists of three pairs of hairpin loop-like structures
13	Rosettes/4-leaf-clover-like appearance ^{28,29}	Early molluscum	Four white points arranged as 4-leaf clover, mainly located around the follicular openings. This appearance is seen on polarized dermoscopy, and it is also seen in other conditions such as actinic keratosis, discoid lupus erythematosus and squamous cell carcinoma
14	White jade coin pendant sign ^{30,31}	<i>Talaromyces marneffe</i> infection	It is seen as a circular or quasi-circular whitish amorphous structure with a central keratin plug or a haemorrhage
15	White starburst-like pattern ³²⁻³⁴	Leishmaniasis	White halo surrounding a central eroded area which may correspond to parakeratosis and hyperkeratosis surrounding the erosion
16	Yellow tears ^{33,35}	Leishmaniasis cutaneous sporotrichosis	Yellowish structures with an oval and/or tear drop shape. This feature attributes to the follicular plugs due to the lateral compression of follicular openings

Dermoscopic Signs of Papulosquamous Disorders

Skin disorders such as psoriasis, lichen planus, pityriasis rosea and subacute lupus erythematosus have a common morphologic appearance as scaly plaques [Figures 10-12]. Clinical differentiation may be difficult occasionally, thereby requiring histopathological confirmation. Dermoscopic magnification of surface structures and sub-surface features may aid in correct diagnosis by revealing disease-specific diagnostic features [Table 5].

Dermoscopic Signs of Scalp and Hair Disorders

Trichoscopy is a valuable tool for not only diagnosing different hair and scalp disorders including alopecias but may be used additionally for assessing prognosis and monitoring treatment response [Figures 13 and 14]. It involves detailed observation of hair follicle openings, perifollicular and interfollicular scalp epidermis, dermal vasculature and hair shafts. A careful analysis of these findings is necessary for diagnosis. Over years, various trichoscopic signs have been

Table 3: Signs and patterns in pigmentation disorders

S. No.	Dermoscopic sign	Disease	Description
Hyperpigmentation			
1	Cristae and sulci pattern ³⁶	Acanthosis nigricans	Presence of grooves, furrows, ridges and crests along with hyperpigmented dots [Figure 7]
2	Hill and valley pattern ³⁶	Acanthosis nigricans	This is seen in severe cases of AN and appears as ridges (hills) and grooves (valleys)
3	Hub and spoke pattern ³⁷	Macular amyloidosis	Brown clods and radiating brown lines from the clod
4	Reticuloglobular pattern ³⁸	Melasma	Peripheral reticular pigmentation with central globules
5	Wagyu beef-like appearance ³⁹	Erythema dyschromicum perstans	Pigmentation in crista cutis and presence of small brown dots
6	Worm-like structures ⁴⁰	Exogenous ochronosis	Short, stout, curvilinear, “banana-shaped,” ochre-coloured fibres of varying thickness in the papillary and upper dermis
Hypopigmentation			
1	Ameboid pattern ⁴¹	Idiopathic guttate hypomelanosis, vitiligo	Relatively well-defined margins of the depigmented patch sending out pseudopod-like extensions
2	Cloudy sky-like pattern (cloudy pattern) ⁴²	Idiopathic guttate hypomelanosis	Multiple small areas coalescing into irregular/polycyclic macules with several white shades and both well- and ill-defined edges, surrounded by patchy hyperpigmented network
3	Comet tail ⁴³	Unstable vitiligo	Depigmented patch with koebnerization in a comet tail pattern
4	Manchurian gravy sign ⁴⁴	Vitiligo post-skin grafting	After 2–3 months of micropunch grafting, grafts <i>in situ</i> appear as homogeneous dark brown well-circumscribed pigmented structures with lighter brown-coloured areas emerging centrifugally from the darker structures
5	Nebulous pattern ⁴¹	Vitiligo	Dense white depigmentation with ill-defined margins that merges indistinctly with the surrounding.
6	Petaloid pattern ⁴⁵	Idiopathic guttate hypomelanosis	A well-defined depigmented macule with pigmented polycyclic margins
7	Polka dot appearance ⁴¹	Unstable vitiligo	Depigmented macules in a polka dot appearance [Figure 8]
8	Reversed pigmentary network pattern ⁴⁶	Evolving vitiligo	Net-like pigmentary network formed by homogeneous white lines separated by pigmented areas in between (opposite to that of normal reticulate pigmentary network)
9	Tapioca sago appearance ⁴³	Unstable vitiligo	Satellite lesions appearing as small white blotches around the main patch of vitiligo
10	Trichrome pattern ⁴⁷	Vitiligo	Zone of normal pigmentation surrounding a hypopigmented rim around depigmented patch
11	White chrysalis like structures ⁴⁸	Extragenital lichen sclerosis	White-yellowish structureless areas, without any sharp margin to differentiate the hypopigmented patch from the surrounding skin

Table 4: Signs and patterns in vascular disorders

S. No.	Dermoscopic sign	Disease	Description
1	Collarette sign ⁴⁹	Kaposi sarcoma	Four types of collarette signs have been described: white, brown, scaly and mixed. The pathological correlation of collarette sign was areas of epidermal invagination, where acanthosis and hyperkeratosis are prominent
2	Hypopyon sign ^{50,51}	Lymphangioma circumscriptum	Presence of lacunae (often multicoloured). The lacunae has different amount of blood and lymphatic content owing to the presence of micro-shunts between lymphatic channels and small blood vessels. The extravasated cellular element of blood (erythrocytes) lies at the bottom and serum on the upper part giving rise to a “hypopyon sign” or 2-tone lacunae (as a result a half blood-filled lacunae resembling the hypopyon in the eye). it is a reliable feature to distinguish between LC and hemangioma
3	Rainbow pattern sign ⁵²	Kaposi sarcoma	Presence of multicoloured areas similar to the spectrum of a rainbow. The pattern is predominantly seen in vascular lumen-rich histological subtype of KS and is not observed in the vascular lumen-poor subtype
4	White rail lines ⁵³	Pyogenic granuloma	Whitish streaks or bands that intersect the lesion through and through [Figure 9]

Table 5: Signs and patterns in papulosquamous disorders

S. No.	Dermoscopic sign	Disease	Description
1	Collarette sign ^{54,55}	Pityriasis rosea	The characteristic peripheral whitish scaling seen in both herald patch and other lesions [Figure 10]
2	Cornoid lamella (white track sign) ^{56,57}	Porokeratosis	A well-defined, thin, white-yellowish, annular peripheral hyperkeratotic structure (“white track”) which resembles outlines of a volcanic crater seen from a high point corresponds to cornoid lamella [Figure 11]
3	Dermoscopic Auspitz sign ⁵⁸	Plaque psoriasis	In presence of marked hyperkeratosis after removal of scales, dermoscopy shows characteristic pattern consisting of diffuse white scales and symmetrically and regularly distributed dotted vessels and tiny red blood drops on a light or dull red background suggestive of dermoscopic Auspitz sign [Figure 12]
4	Rail-like appearance ⁵⁹	Asteatotic eczema	Asteatotic eczema on dermoscopy is seen as white scales having a double free edge giving “rail-like” appearance
5	Red globular ring pattern ⁶⁰	Plaque psoriasis	Typical pattern of vessels in psoriasis described as uniformly distributed “dotted,” “pinpoint” capillaries and coiled (or glomerular) vessels. The same pattern of blood vessels in psoriasis also described as red dots (for vessels with diameters up to 0.1 mm) or “red globules” terms
6	Spermatozoon-like structures ⁶¹	Patch stage of mycosis fungoides	A peculiar vascular pattern (composed of a dotted and a short curved linear vessel) resembles spermatozoa
7	Sunburst appearance ⁶²	Lichen nitidus	Lichen nitidus is characterised by shiny elevated surface with absence of dermatoglyphics over the lesions along with radial ridges and central circular depression. The radial ridges are seen to be radiating from the edges of central depression giving a “sunburst appearance.” It is classically seen on non-polarised dermoscopy
8	Trizonal concentric pattern ⁵⁹	Acquired reactive perforating collagenosis	Central round brownish-greenish/yellowish-brown structureless area surrounded by a white keratotic collarette and an erythematous halo with or without dotted vessels
9	White starburst pattern ⁶³	Prurigo Nodularis	Both hyperkeratotic and excoriated lesions of prurigo nodularis show arranged whitish lines or peripheral whitish halo with some centrifugal coarse projections on a brownish and/or reddish background
10	Wickham’s striae ^{64,65} (polymorphic pearly whitish structures) Patterns: Reticular pattern, circular pattern, radial streaming, leaf venation starry sky pattern	Lichen planus	Leaf venation pattern of WS-delicate secondary striae branching from the centered WS venation, linked together at either end, resembling the crystal structure of snow Starry sky pattern: Clustered, follicular white dots

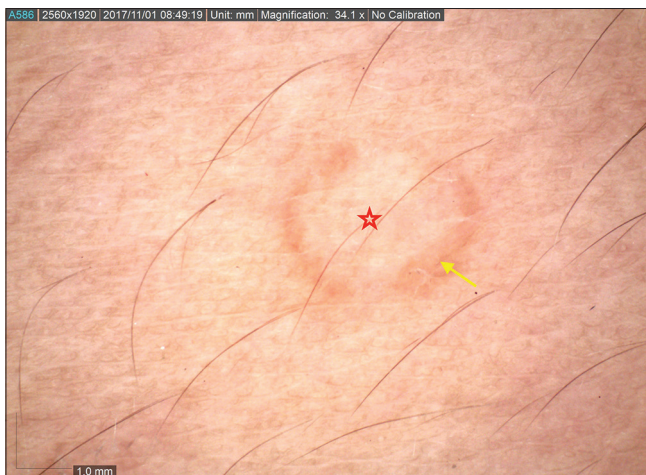


Figure 5: Contrast halo sign in a case of hypopigmented pityriasis versicolor showing a ring of increased pigmentation (yellow arrow) around the primary hypopigmented (red star) lesion (Dino-lite AM4115ZT;×50;polarising)

documented and established. Some of these signs are non-specific, but are helpful in assessment of different alopecias, while other specific signs facilitate a quick diagnosis.^{1,2} We have compiled both non-specific and specific trichoscopic signs in Table 6.

Dermoscopic Signs of Nail Disorders

Nail disorders are often complicated by dubious clinical diagnoses. Moreover, histopathological confirmation is difficult due to the tedious process of nail biopsy. The evolution of onychoscopy is one of the most significant contributions of dermoscope [Figures 15 and 16]. Some of the important onychoscopic signs are tabulated in Table 7.

Conclusion

Metaphoric language is a part of our cognitive development and is commonly used to comprehend new knowledge by

Table 6: Signs and patterns in scalp and hair disorders

S. No.	Dermoscopic sign	Disease	Description
Scalp related			
1	“Cherry blossom” vascular pattern ⁶⁶	Seborrheic dermatitis	Arborizing vessels surrounded by glomerular and comma-shaped vessels
2	Dandelion vascular conglomerate ⁶⁶	Seborrheic dermatitis	Yellow dot surrounded by glomerular and comma-shaped vessels. This appears like seed head of dandelion (<i>Taraxacum</i> genus) plants
3	Flambeau sign ⁶⁷	Traction alopecia	Multiple linear white tracks (mimicking the shape of flame or lit torch) in the direction of traction on hairs. These white tracks are particularly noted posterior to fringe of hairs left (fringe sign) at the hair line
4	Honeycomb network ^{68,69}	Sun exposure	Bald scalp shows increased pigmentation in a fine reticular pattern. It may be lost in various scarring alopecia
5	Peripilar sign ^{70,71}	Androgenetic alopecia	Depressed brown halo around the hair follicle, represents perifollicular inflammation
6	Peripilar white halo ^{68,70}	Central cicatricial scarring alopecia	Gray-white halo surrounding follicular openings
7	Red starburst sign ^{70,71}	Discoid lupus erythematosus	Seen as circular, follicular erythema. Represents dilated follicular openings surrounded by dilated blood vessels
Hair shaft related			
1	Bamboo hair ^{72,73}	Trichorrhexis invaginata	Invagination of the distal portion of the hair shaft into its proximal portion forming a “ball in cup” appearance
2	Bent hairs ⁷⁴	Tinea capitis	Hair shaft with a single bend at sharp angle
3	Broom fibres sign ⁷⁵	Lichen simplex chronicus of scalp	Hair shaft gets broken longitudinally into two or more fragments and mimics broom fibres
4	Burnt matchstick hair ⁷⁶	Trichotillomania	Hair with dark bulbous proximal tip with a linear stem of variable length
5	Coudability sign ⁷⁷	Alopecia areata	Proximal narrowing (and subsequent kinking) of hair shafts
6	Coiled hairs ⁷⁸	Trichotillomania	Broken (terminal) hairs that curl back
7	Comma hairs ⁷⁴	Tinea capitis Sometimes, alopecia areata and trichotillomania	Fractured, c-shaped hair shafts of homogeneous thickness and pigmentation [Figure 13]
8	Corkscrew hairs ⁷⁴	Tinea capitis	Short, spiral-shaped hairs [Figure 13]
9	Crawling snake appearance ⁷⁹	Woolly hair syndrome	Short wavy cycles in the hair shaft resembling a crawling snake
10	Exclamation mark hairs ⁷⁷	Alopecia areata	Broken hair shafts have a darker, thicker tip while the proximal portion is thinner and pale. Indicate active disease process
11	Flame hairs ⁷⁷	Alopecia areata, trichotillomania, anagen effluvium	Semi-transparent, wavy or cone shaped, pigmented structure resembling flame. Represents pigmented hair cast
12	Golf tee hairs ^{72,73}	Trichorrhexis invaginata	The cupped proximal end of hair shaft remains while the distal end fractures and fall off
13	Hair dust/hair powder ⁷⁸	Trichotillomania	Small fragments of broken hair visible on the scalp
14	i-hairs ^{80,81}	Tinea capitis alopecia areata, trichotillomania	Short hair with an accentuated distal end and a thin hypopigmented shaft just beneath the darker distal end, resembling the alphabet "i"
15	Mace hair ⁸²	Trichotillomania	Distal end of the hair shaft is bulbous and the hair shaft is hyperpigmented throughout its length and the upper half is rough in texture due to pulling and playing action with hair
16	Matchstick hairs ⁸³	Trichorrhexis invaginata	Short hair shafts with bulging tips
17	Morse code (bar code) like hairs ⁷⁴	Tinea capitis	Hair shafts with irregular horizontal white bands. Correlates with zone of ectothrix. Hair shafts may get bent at this zone.
18	Peripilar cast ⁶⁸⁻⁷⁰	Lichen planus pilaris, also in discoid lupus erythematosus, folliculitis decalvans	Concentric layers of scales around the emerging hair shaft. Peripilar cast encircling 2–3 or more hairs is very suggestive of LPP [Figure 14] Thicker peripilar casts encircling six or more hairs is suggestive of folliculitis decalvans
19	Pigtail hairs (circle hairs) ^{77,78}	Androgenetic alopecia, anagen effluvium, tinea capitis, Trichotillomania	Thin, curved, regrowing (vellus) hairs appear circular or coiled Correlates with hair regrowth
20	Pohl-pinkus constrictions ^{68,69}	Alopecia areata, anagen effluvium, cicatricial alopecia, telogen effluvium	Refers to zones of decreased hair shaft thickness
21	Question mark hair ⁷⁸	Trichotillomania	The distal portion of the hair shaft is curved and appears like question mark. Unlike exclamation mark hairs, the proximal portion of hair shaft is not tapered
22	Regularly bended ribbon sign ⁸⁴	Monilethrix	Bended regularly at multiple locations with tendency to curve in different directions, giving it an appearance of a regularly bended ribbon
23	Starburst pattern hyperplasia ⁸⁵	Folliculitis decalvans	Perifollicular erythema arranged in a pattern of lines radiating from a centre (it results from fibrosis)
24	Tulip bulb hairs ⁷⁸	Trichotillomania	Short hairs with tulip bulb-shaped ends
25	V sign or V-hairs ⁷⁸	Trichotillomania	Two (or more) hairs emerging from same follicular opening get broken at similar level/height and give an impression of “V”
26	Zigzag hairs ⁷⁴	Tinea capitis	Hair shafts bent at multiple sharp angles along the length. Hair shafts appear like letter “Z”

Table 7: Signs and patterns in nail disorders

S. No.	Dermoscopic sign	Disease	Description
1	Aurora borealis pattern ⁸⁶	Onychomycosis	Parallel bands of different colours in the onycholytic nail plate
2	Chick-pea flour pattern ⁸⁷	White superficial onychomycosis	Yellowish-white, opaque and friable debris on the nail plate, concentrated near the proximal nail fold
3	Dendritic pattern ⁸⁸	Endonyx	The haphazard proliferation and branching of fungal elements in the nail plate [Figure 15]
4	Grid pattern ⁸⁷	Superficial white onychomycosis	Interconnected linear striae progressing from proximal to distal end
5	Irregular pattern of LPB ³	Malignant melanonychia	longitudinal lines that are irregular in colour, spacing, thickness and parallelism
6	Mirror sign ⁸⁹	Onychomatricoma	Intraoperative dermoscopy sign: Symmetry of the lesion through a perpendicular axis in the proximal nail fold with the digitations (finger-like extensions of the tumour above the lunula) within the tumour being mirrored by the crypts within the nail plate
7	Pink glow sign ⁹⁰	Subungual glomus tumour	Ultraviolet light dermoscopy glow of the glomus tumour due to its vascular nature
8	Pseudo-fibre sign ⁹¹	Nail psoriasis	Red and black filamentous structures under the distal-free edge of nail plate
9	Regular pattern of longitudinal pigmentary bands ³	Benign melanonychia	Parallel longitudinal lines are homogeneous in colour, spacing, thickness and orientation
11	Ruin pattern ⁹¹	Onychomycosis	Indented areas on the subungual keratosis and distal pulverisation [Figure 16]
12	Sagrada Familia sign ⁸⁹	Onychomatricoma	Intraoperative dermoscopy sign: Multiple, regularly spaced and arranged, hyperbolic cavities in the ventral aspect of the nail plate

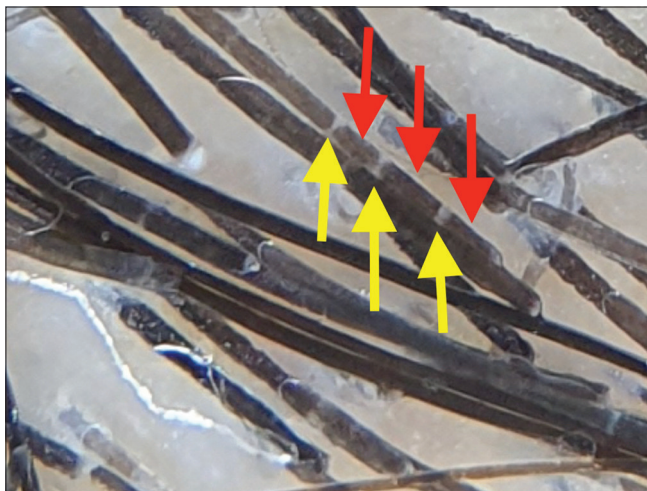


Figure 6: Morse code-like hair in tinea capitis showing multiple horizontal bands (alternating red and yellow arrows) of fungal invasion in vellus hairs by masses of arthroconidia formed at intervals (Dermlite DL4;×10;polarising)

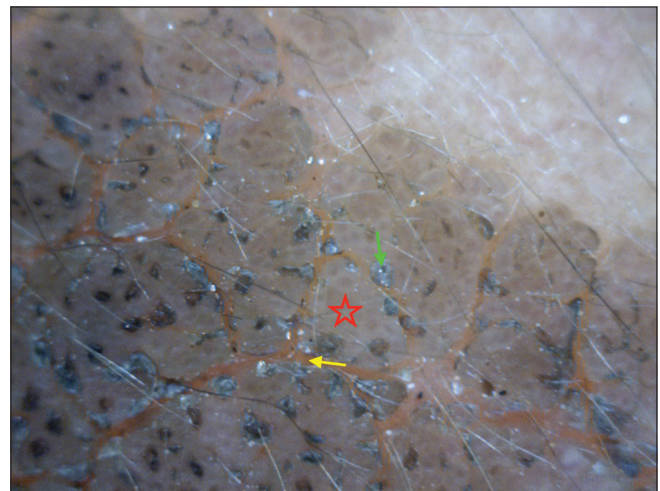


Figure 7: Cristae (red star) and sulci (yellow arrow) pattern in acanthosis nigricans showing presence of grooves, furrows, ridges and crests along with hyperpigmented globules (green arrow) (Dino-lite AM4115ZT;×50;polarising)

comparing with already learned knowledge. The use of metaphoric language in dermoscopy has been both supported and opposed. Its use in dermatology (including dermoscopy) has been criticized for lacking a clear definition and specificity. A metaphor should be well defined and clearly pictured (descriptive terminology may be used), useful (help the student understand a new concept which is otherwise difficult and/or complex), straight forward and commonplace (easily recognized and remembered) and resemble the described dermoscopic feature.⁹² The aforementioned

parameters must be kept in mind, while proposing a novel metaphoric term so as to minimize inter-observer variability and confusion in its interpretation. If a metaphor fails to satisfy these criteria, it may become difficult for the readers to interpret and remember them. Therefore, it is prudent to strike a balance between both metaphoric and descriptive angles, while coining the dermoscopic appearances.⁹³ Our attempt to compile the named signs and metaphoric language will be useful for the learners of dermoscopy and will make it interesting.



Figure 8: Polka dot appearance (red circle) in unstable vitiligo showing multiple depigmented macules (blue arrow)[Dinolite AM4115ZT;50×;polarising]

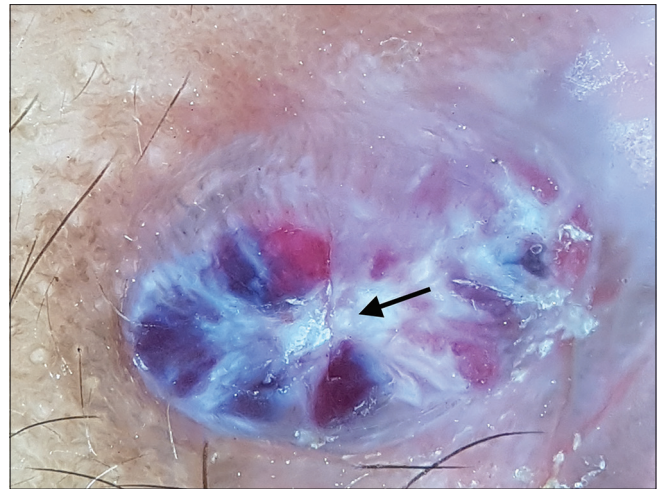


Figure 9: White rail lines (black arrow) in pyogenic granuloma showing whitish streaks that intersect the lesion [DermLite DL4;10×;polarising]

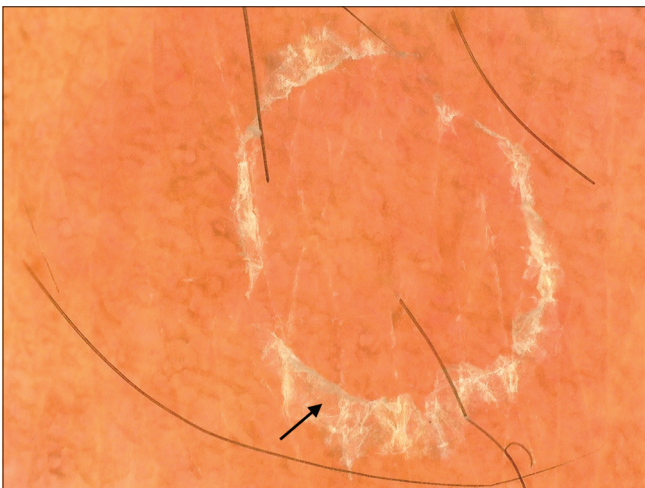


Figure 10: Collerette sign (black arrow) in pityriasis rosea showing the characteristic peripheral white scale [Dinolite AM4115ZT;50×; polarising]

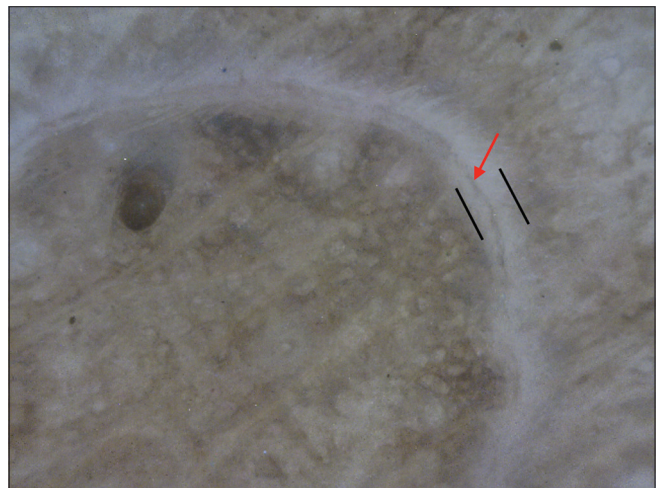


Figure 11: White track (between the black lines) of porokeratosis coronoid lamella appearing as well-defined, thin, white-yellowish, annular peripheral hyperkeratotic structure which resembles outlines of a volcanic crater (red arrow) seen from a high point. [Dinolite AM4115ZT;50×;polarising]

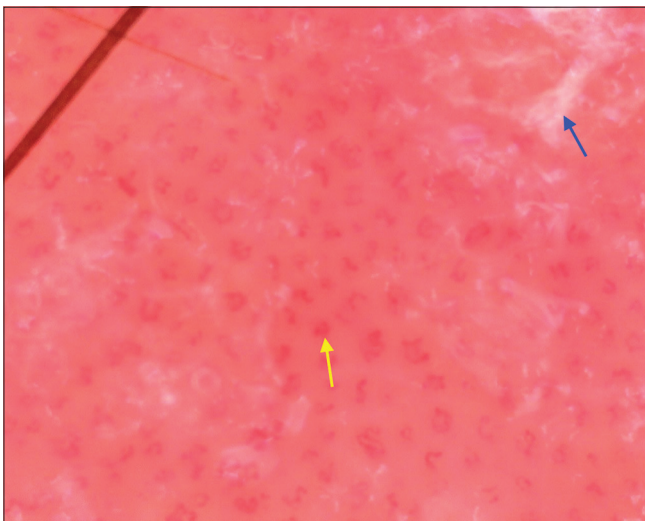


Figure 12: Dermoscopic Auspitz sign in psoriasis showing characteristic pattern consisting of diffuse white scales (blue arrow) at periphery and symmetrically and regularly distributed dotted vessels (yellow arrow) on a light or dull red background [Dinolite AM4115ZT;50×;polarising]

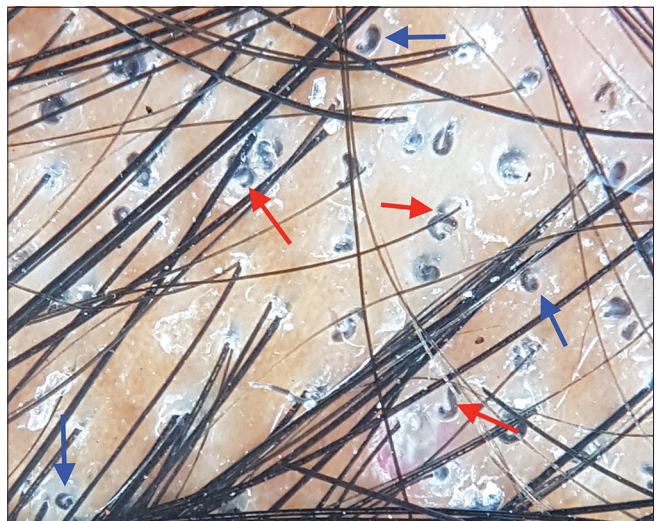


Figure 13: Comma (blue arrow) and corkscrew hairs (red arrow) showing fractured, c-shaped hair shafts of homogeneous thickness and pigmentation; and short, spiral shaped hairs [DermLite DL4;10×;polarising]



Figure 14: Peripilar cast in folliculitis decalvans showing concentric layers of scales around the emerging hair shaft (red circle) [Dermlite DL4;10×;polarising]



Figure 15: Dendritic pattern (yellow circle) of endonyx appearing as the haphazard proliferation and branching of fungal elements in the nail plate. [Dinolite AM4115ZT;50×;polarising]

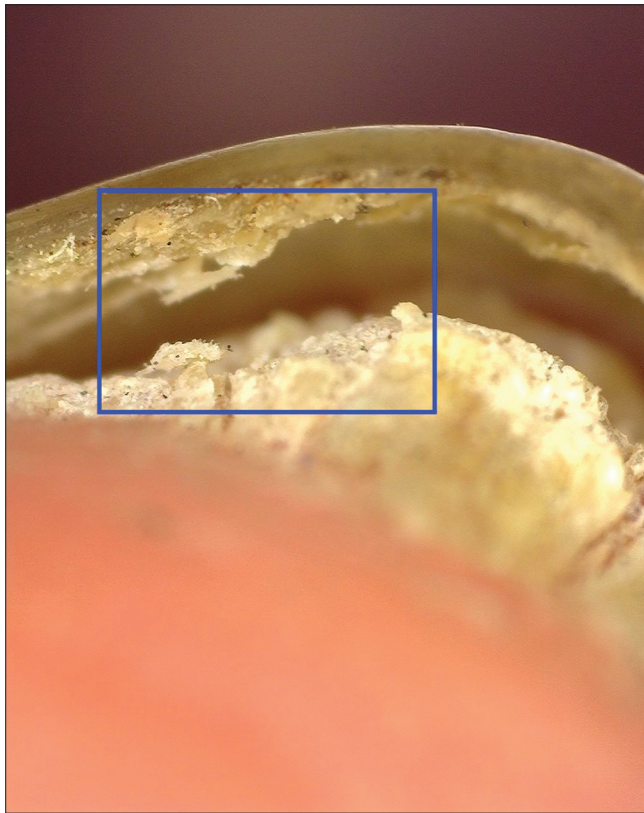


Figure 16: Ruin pattern (blue box) of onychomycosis appearing as indented areas on the subungual keratosis and distal pulverisation [Dinolite AM4115ZT;50×;polarising]

Declaration of patient consent

Patients' consent is not required as the patients' identities are not disclosed or compromised.

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Conflicts of interest

There are no conflicts of interest.

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