

Supplementary Table 3. Overview of the characteristics of included studies.

Diagnosis	First author, journal, year	Dermoscopic features	Corresponding IDS terminology	Histological confirmation	Histological background of the findings	Dermoscope (polarized/non-polarized) – magnification (immersion)	Number of cases	Study design/ Oxford level of evidence	Comments
Melanocytic lesions									
Melanoma	Campos-Muñoz et al., Clin Exp Dermatol., 2007	Homogeneous blue-grey background with a superimposed atypical pigment network at the centre. Brownish pigmentation with atypical pigment network. Dark brown globules at the periphery.	Structureless zone, blue, gray Lines reticular and thick or reticular lines that vary in color Clods, brown, small	Yes	Breslow depth: 1.06 mm Clark level: III Many dermal melanophages: blue-grey background. Enlargements of the rete ridges: atypical pigment network.	NR (NR) – NR (NR)	1	Case report/V	
Congenital melanocytic naevus	Drakensjö et al., Acta Derm Venereol., 2012	Irregular pigment distribution with confluence of black and brown dots.	Dots, brown, black	No	NR	NR (NR) – NR (NR)	1	Case report/V	Spontaneous regression of the lesion – residual brown macula and a greyish shadow after 3 years of follow-up.
Intradermal nevus	Bandeira et al., An Bras Dermatol., 2018	Comma-shaped and irregular vessels on a light pink background. Surrounding serous and hematic crust.	Curved vessels Structureless zone, pink No corresponding IDS terminology	Yes	Epidermal atrophy; nevus cells without atypia in the dermis; preserved deep maturation, interspersed with congested blood vessels.	NR (NR) – NR (NR)	1	Case report/V	Ulcerated intradermal nevus. Dermoscopy of cerebriform area. Cerebriform area surrounded by serous-hematic crust.
Non-melanocytic malignant lesions									
Basal cell carcinoma	Ramirez et al., Dermatol. Online J., 2011	Semi-translucent appearance. Small superficial ulceration. Polymorphous, in focus vessels: hairpin vessels, prominent arborizing vessels. Fine elongated telangiectasias.	No corresponding IDS terminology No corresponding IDS terminology Polymorphous vessels: looped, branched No corresponding	Yes	NR	NR (NR) – NR (NR)	1	Case report/V	Found during complete body mole mapping.

				IDS terminology						
	Takada et al., An Bras Dermatol., 2021	Large blue-gray ovoid nests.		Clods, blue, large, clustered	Yes	Atypical cells forming nests extending from the epidermis with a palisading pattern and a small number of melanin deposits. Artifactual clefting around the nest.	NR (NR) – NR (NR)	1	Case report/V	
	Kurosaki et al., Medicine, 2023	Case 1.	Blue-gray globules. Large blue-gray ovoid nests.	Clods, blue, small Clods, blue, large	Yes	Atypical cells contiguous with the epidermis forming a nest with a fenestrated arrangement at the margins.	NR (NR) – NR (NR)	2	Case report/V	
		Case 2.	Large blue-gray ovoid nests. Arborizing vessels.	Clods, blue, large Branched vessels		No specific structures reported.				
Fibroepithelioma of Pinkus	Inskip et al., Dermatol Pract Concept., 2016	Lesion 1. (nonpigmented)	Multiple small erosions Fine polymorphic peripheral vessels on a pink/white background.	No corresponding IDS terminology Polymorphous vessels Structureless zone, pink, white	Yes	Interconnecting and ramifying cords of basaloid epithelium set in a loose stroma; the infiltrative and arborizing pattern; macrophages within the intervening stroma (pigmented lesion).	Medicam 800 Fotofinder (non–polarized) – 20x (NR)	1	Case report/V	Apparent two tumors. Two different dermoscopic patterns of one tumor.
		Lesion 2. (pigmented)	Small ovoid gray structures. Fine brown dots. Arborizing vessels. Single erosion.	Clods, gray, small, clustered Dots, brown Branched vessels No corresponding IDS terminology						
Sister Mary Joseph nodule	Buljan et al., Australas J Dermatol., 2018	Diffuse glomerular and dotted vessels. Milky-red structureless areas. White lines (as a result of the papillomatous surface of the lesion).		Coiled vessels, dots Structureless zone, pink Lines, white	Yes	NR	NR (NR) – NR (NR)	1	Case report/V	Gastric adenocarcinoma

	Dong et al., Australas J Dermatol., 2016	Aggregated frogspawn appearance with grey, yellow- grey and pink-grey coloration, and sometimes with a vessel in each ‘egg’ in the center; polymorphous vessels inside ‘eggs’ (irregular linear, arborizing, glomerular vessels). Peripherally structureless pink area.	Polymorphous vessels (serpentine, branched, coiled) Specific clue: ‘frogspawn appearance’ Structureless zone, pink	Yes	Well-formed glandular structures in the superficial dermis, with balloon- shaped structures in the dermal papillae; single cancer cells or clusters of cancer cells in the deeper adjacent dermis.	NR (NR) – 10x (NR)	1	Case report/V	Gastric adenocarcinoma
	Garrido Colmenero et al., Actas Dermosifiliogr., 2015	White shiny structures. Milky-red areas. Atypical polymorphous vessels (serpentine, curved vessels).	Shiny white structures Structureless zone, pink Polymorphous vessels (serpentine, curved)	Yes	Subcutaneous infiltration by a metastasis from an adenocarcinoma.	NR (polarized) – NR (NR)	1	Case report/V	Colon cancer
	Ge et al., Dermatol Sin., 2016	Polymorphous vessels (serpentine, dotted, comma- shaped vessels). White veil.	Polymorphous vessels (serpentine, dots, curved) No corresponding IDS terminology	Yes	Diffuse infiltration of hyperchromatic and pleomorphic tumor cells in the dermis with a grenz zone.	NR (NR) – NR (NR)	1	Case report/V	Esophageal squamous cell carcinoma
	Gracia-Darder et al., J Cutan Med Surg., 2022	Milky-red structureless areas. Yellow crust. White lines. Atypical polymorphic vascular pattern.	Structureless zone, pink No corresponding IDS terminology Lines, white Polymorphous vessels	No	NR	NR (NR) – NR (NR)	1	Case report/V	
	Ha et al., Clin Med Insights Oncol., 2021	Polymorphous vessels. White, milky-red structureless area.	Polymorphous vessels Structureless zone, white, pink	Yes	NR	DermLite II Pro HR (NR) – 10x (NR)	1	Cross- sectional study/IV	1 out of 2 reported cases was included in the analysis as detailed frequency of dermoscopic features was not provided by the authors.
	Mun et al., J Am Acad Dermatol., 2013	Polymorphous vessels (linear serpentine, linear curved vessels). White and milky-red structureless area.	Polymorphous vessels (serpentine, curved) Structureless zone, white, pink	Yes	Metastatic adenocarcinoma. Increased vascularity around neoplastic cell nests in the papillary dermis: vascular pattern in dermoscopy.	NR (NR) – 10x (NR)	1	Case report/V	Pancreatic cancer

Mycosis fungoides	Belcadi et al., JAAD Case Rep., 2022	Comedo-like openings. Black structureless area.	Clods, black Structureless zone, black	Yes	Epidermotropic lymphoid infiltrate composed of medium-sized lymphocytes with cribriform notched nuclei and eosinophilic cytoplasm arranged in rows and theca. Fibrous dermis, with above-described cells arranged in a subepidermal band.	NR (NR) – NR (NR)	1	Case report/V	
Non-melanocytic benign lesions									
Dermatofibroma	Ha et al., Clin Med Insights Oncol., 2021	Pigment network. White structureless area.	Lines, reticular Structureless zone, white	Yes	NR	DermLite II Pro HR (NR) – 10x (NR)	1	Cross-sectional study/IV	1 out of 5 reported cases was included in the analysis as detailed frequency of dermoscopic features was not provided by the authors.
Endometriosis	Amaral Couto et al., Int J Clin Case Rep Rev., 2020	Polypoid projections in white color. Grayish area around polyploid projections. Central black dots. Peripheral mild erythema.	Specific clue: polyploid projections in white color Structureless zone, gray Dots, black, central No corresponding IDS terminology	Yes	Cystic shaped skin fragments, delineated by a single layer of cylindrical cells, presence of hemosiderin, inflammatory cells and fibrosis.	NR (polarized) – NR (NR)	1	Case report/V	
	Bonné et al., J Eur Acad Dermatol Venereol., 2020.	Three polypoid nodules; drainage hole on the top of each nodule; one drainage hole filled with amorphous red material; purplish-blue homogenous and poorly delimited area around the drainage holes. Flesh-coloured, light to dark brown structureless areas.	Specific clues: polyploid nodules, drainage hole on the top of each nodule Structureless zone, purple, blue, brown	Yes	Glandular structures in the superficial dermis, covered with cylindrical epithelium, with a lumen containing an eosinophilic substance and surrounded by a cytogenic stroma associated with a discrete	DermLite DL4 (NR) – 10x (immersion)	1	Case report/V	

					lymphocyte infiltration.					
	Buljan et al., Australas J Dermatol., 2018	Diffuse and homogeneously distributed dotted vessels. Milky-red structureless area with a brownish hue.		Dots Structureless zone, pink, brown	Yes	NR	NR (NR) – NR (NR)	1	Case report/V	
	Costa et al., Int J Dermatol., 2014	Follicular phase	Polypoid projections of erythematous violaceous color; active bleeding. Areas with dark brown spots.	Specific clues: polyploid projections of erythematous violaceous color, active bleeding No corresponding IDS terminology	Yes	Endometrial, glandular, and stromal elements in the reticular dermis.	Dermlite DL3 (polarized) – 10x (NR)	1	Case report/V	Lesion appeared two years after laparotomic tubal ligation in the umbilical scar.
		Luteal phase	Volume increase in the polypoid projections; increase in the number and size of the dark brown spots; areas with dark material.	No corresponding IDS terminology						
De Giorgi et al., Clin Exp Dermatol., 2003	Homogeneous reddish pigmentation, regularly distributed, gradually fading toward the periphery. Small red globular structures within typical pigmentation, but more defined and of a deeper hue, called ‘red atolls’.		Structureless zone, red Specific clue: ‘red atolls’	Yes	Red atolls – multiple irregular glands containing erythrocytes embedded in a cellular stroma. Homogeneous reddish hue – myxoid, vascular stroma containing extravasated erythrocytes. Multiple irregular glands embedded in a cellular stroma within the dermis. The glands were lined with a columnar epithelium with evidence of decapitation secretion, suggestive of the secretory phase of	Heine 10 (NR) – NR (immersion oil)	1	Case report/V		

					the menstrual cycle. Some of the glands were dilated and contained erythrocytes and cell debris. The endometrial glands were surrounded by a myxoid, vascular stroma containing extravasated erythrocytes and haemosiderin depositions.				
	Jaime et al., An Bras Dermatol., 2013	Homogeneous reddish localized pigmentation. Amorphous brown area. Regular pigmented skin network in the center.	Structureless zone, red, brown No corresponding IDS terminology Lines, reticular, central	Yes	Fibroblastic proliferation in the dermis and endometrial glandular tissue, of the decapitation secretion type. Deposit of hemosiderin in the dermis.	DermLite II Pro HR (polarized) – 10x (NR)	1	Case report/V	
	Levakov et al., Acta Dermatovenerol Croat., 2020	Small red globular structures (“red atolls”) within regularly distributed homogeneous reddish pigmentation fading at the periphery.	Specific clue: ‘red atolls’ Structureless zone, red	Yes	Endometriosis of cutaneous and subcutaneous adipose tissue.	NR (NR) – NR (NR)	1	Case report/V	
	Sandoval et al., Australas J Dermatol., 2021	Pink homogeneous lesion with a focal bluish blotch/clod.	Structureless zone, pink Clods, blue	Yes	Connective tissue with a nodular area composed of normotypic endometrial glands surrounded by endometrial stroma with interstitial erythrocytes and hemosiderin-loaded macrophages.	NR (polarized) – NR (NR)	1	Case report/V	
	Vega-Castillo et al., Dermatol Pract Concept., 2022	Central white reticular pattern on a violet background.	Lines, white, central Structureless zone, violet	Yes	NR	DermLite DL4 (polarized) – 10x (NR)	1	Case report/V	
	Wobser et al., Geburtshilfe und Frauenheilkunde, 2009	Red globules. Telangiectasias.	Clods, red, small No corresponding IDS terminology	Yes	Glandular tissue with cubic epithelium within a mucinous stroma.	NR (NR) – NR (NR)	1	Case report/V	

		Diffuse homogenous milky-red area.	Structureless zone, pink						
Epidermal cyst	Ha et al., Clin Med Insights Oncol., 2021	The ‘pore’ sign.	Specific clue: the ‘pore’ sign	Yes	NR	DermLite II Pro HR (NR) – 10x (NR)	1	Cross-sectional study/IV	
Epidermal nevus	Ha et al., Clin Med Insights Oncol., 2021	Diffuse pigmentation.	No corresponding IDS terminology	Yes	NR	DermLite II Pro HR (NR) – 10x (NR)	1	Cross-sectional study/IV	
	Siebel et al., Surg Cosmet Dermatol., 2014	Yellow-orange color areas in the center.	Structureless zones, yellow, orange No corresponding IDS terminology	Yes	Laminar hyperkeratosis; acanthosis; papillomatosis. Dermal fibrosis: umbilical scar.	NR (NR) – NR (NR)	1	Case report/V	Verrucous epidermal nevus
		Peripheral verrucous lesions (on the wall of the umbilical scar).	Lines reticular						
Fine regular pigmented network in the margins of the lesion.		No corresponding IDS terminology							
		Debris.							
Granuloma	Ancer-Arellano et al., Pediatr Dermatol., 2019	Linear irregular vessels.	Linear vessels	No	NR	DermLite DL3N (polarized) – 10x (NR)	1	Case report/V	
		Arborizing vessels.	Branched vessels						
		Structureless areas over a milky-red background.	Structureless zone, pink						
	Jassi et al., Indian Dermatol Online J., 2020	Fine linear vessels.	Linear vessels	No	NR	DermLite 3N (polarized) – 10x (NR)	1	Case report/V	
Dotted vessels.		Dots No corresponding IDS terminology							
Tortuous vessels.		Structureless zone, pink							
		Milky-white background.							
Intravascular Papillary Endothelial Hyperplasia	Resuello et al., Diagn Pathol., 2022 (under review)	Patchy pseudo-reticular network with thick brown lines surrounding a structureless area.	Lines, reticular and thick	Yes	Dilated vascular spaces lined by pleomorphic cells exhibiting mild atypia.	NR (NR) – NR (NR)	1	Case report/V	
		Milky-red structureless area.	Structureless zone, pink No corresponding IDS terminology						
		White veil.	Shiny white lines						
		Multiple shiny white lines and strands.							
Lichen planus	Martos-Cabrera et al., An Bras Dermatol., 2023	White streaks on a violaceous background.	Lines, white, perpendicular Structureless zone, violet	Yes	Hyperkeratosis and cytoid bodies with a bandlike inflammatory cell infiltrate composed of lympho- cytes, histiocytes, and occasional	NR (NR) – NR (NR)	1	Case report/V	

					eosinophils in the papillary dermis.				
	Kolcz et al., Forum Dermatologicum, 2023	Irregular pinkish structureless areas intermingled with whitish lines. Grey dots. Grey-black structureless area.	Structureless zone, pink Lines, white Dots, grey Structureless zone, grey-black Lines, white	Yes	Hypertrophic stratum corneum and granular layer, the proliferation of the squamous layer with the characteristic “saw tooth” appearance, hydrotic degeneration, presence of cytoïd bodies, melanophages and melanin incontinence. Band-like lymphocytic-histiocytic inflammatory infiltrate in the superficial dermis.	NR (NR) – NR (NR)	1	Case report/V	Lichen planus pigmentosus inversus
Omphalolith	Gallouj et al., Dermatol Online J., 2014	Dry crusted appearance. Black-brown structureless areas.	No corresponding IDS terminology Structureless zone, black, brown	Yes	Laminated keratin; amorphous material resembling sebum; numerous terminal hairs; scattered collections of bacteria. Melanin and oxidized lipids: black color.	NR (NR) – NR (NR)	1	Case report/V	
	Jouini et al., Clin Case Rep., 2022	Dry crusted pigmented lamellar keratotic material.	Structureless zone, brown, yellow	No	NR	NR (NR) – NR (NR)	1	Case report/V	
Seborrheic Keratosis	Hamich et al., Clin Med Img Lib., 2022	Exophytic keratotic projection pattern. Dotted vessels. Brown and yellowish structureless areas. Aggregated blue-gray globular-like structures.	Specific clue: ‘exophytic keratotic projection pattern’ Dots Structureless zone, brown, yellow Clods, blue, grey, clustered	Yes	Epidermal proliferation with a hyperplastic epidermis surrounded by a layer of orthokeratotic and papillomatous keratin with a proliferation made mainly of epidermal basal cells.	NR (NR) – NR (NR)	1	Case report/V	
Syringoma	Nam et al., Ann Dermatol., 2020	Multiple pink to whitish areas surrounded by finely pigmented network.	Structureless zone, pink, white Lines, reticular	Yes	Multiple ductal and small cystic structures embedded within	NR (NR) – NR (NR)	1	Case report/V	

					a fibrous connective tissue stroma. The ducts were lined by 1 to 2 rows of epithelial cells. Some ducts showed a “tadpole”-like appearance.				
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NR – not reported