

TABLE 70-4 SELECTED COMMON DERMATOLOGIC CONDITIONS

Diagnosis	Common Distribution	Usual Morphology	Diagnosis	Common Distribution	Usual Morphology
Acne vulgaris	Face, upper back, chest	Open and closed comedones, erythematous papules, pustules, cysts	Seborrheic keratosis	Trunk, face	Brown plaques with adherent, greasy scale; “stuck on” appearance
Rosacea	Blush area of cheeks, nose, forehead, chin	Erythema, telangiectases, papules, pustules	Folliculitis Impetigo	Any hair-bearing area Anywhere	Follicular pustules Papules, vesicles, pustules, often with honey-colored crusts
Seborrheic dermatitis	Scalp, eyebrows, perinasal areas	Erythema with greasy yellow-brown scale	Herpes simplex	Lips, genitalia	Grouped vesicles progressing to crusted erosions
Atopic dermatitis	Antecubital and popliteal fossae; may be widespread	Patches and plaques of erythema, scaling, and lichenification; pruritus	Herpes zoster	Dermatomal, usually trunk but may be anywhere	Vesicles limited to a dermatome (often painful)
Stasis dermatitis	Ankles, lower legs over medial malleoli	Patches of erythema and scaling on background of hyperpigmentation associated with signs of venous insufficiency	Varicella	Face, trunk, relative sparing of extremities	Lesions arise in crops and quickly progress from erythematous macules, to papules, to vesicles, to pustules, to crusted sites.
Dyshidrotic eczema	Palms, soles, sides of fingers and toes	Deep vesicles	Pityriasis rosea	Trunk (Christmas tree pattern); herald patch followed by multiple smaller lesions	Symmetric erythematous patches with a collarette of scale
Allergic contact dermatitis	Anywhere	Localized erythema, vesicles, scale, and pruritus (e.g., fingers, earlobes—nickel; dorsal aspect of foot—shoe; exposed surfaces—poison ivy)	Tinea versicolor	Chest, back, abdomen, proximal extremities	Scaly hyper- or hypopigmented macules
Psoriasis	Elbows, knees, scalp, lower back, fingernails (may be generalized)	Papules and plaques covered with silvery scale; nails have pits	Candidiasis	Groin, beneath breasts, vagina, oral cavity	Erythematous macerated areas with satellite pustules; white, friable patches on mucous membranes
Lichen planus	Wrists, ankles, mouth (may be widespread)	Violaceous flat-topped papules and plaques	Dermatophytosis	Feet, groin, beard, or scalp	Varies with site, (e.g., tinea corporis—scaly annular plaque)
Keratosis pilaris	Extensor surfaces of arms and thighs, buttocks	Keratotic follicular papules with surrounding erythema	Scabies	Groin, axillae, between fingers and toes, beneath breasts	Excoriated papules, burrows, pruritus
Melasma	Forehead, cheeks, temples, upper lip	Tan to brown patches	Insect bites	Anywhere	Erythematous papules with central puncta
Vitiligo	Periorificial, trunk, extensor surfaces of extremities, flexor wrists, axillae	Chalk-white macules	Cherry angioma Keloid Dermatofibroma	Trunk Anywhere (site of previous injury) Anywhere	Red, blood-filled papules Firm tumor, pink, purple, or brown Firm red to brown nodule that shows dimpling of overlying skin with lateral compression
Actinic keratosis	Sun-exposed areas	Skin-colored or red-brown macule or papule with dry, rough, adherent scale	Acrochordons (skin tags)	Groin, axilla, neck	Fleshy papules
Basal cell carcinoma	Face	Papule with pearly, telangiectatic border on sun-damaged skin	Urticaria	Anywhere	Wheals, sometimes with surrounding flare; pruritus
Squamous cell carcinoma	Face, especially lower lip, ears	Indurated and possibly hyperkeratotic lesions often showing ulceration and/or crusting	Transient acantholytic dermatosis Xerosis	Trunk, especially anterior chest Extensor extremities, especially legs	Erythematous papules Dry, erythematous, scaling patches; pruritus

KOH Preparation A potassium hydroxide (KOH) preparation is performed on scaling skin lesions where a fungal infection is suspected. The edge of such a lesion is scraped gently with a no. 15 scalpel blade. The removed scale is collected on a glass microscope slide and then treated with 1 or 2 drops of a solution of 10–20% KOH. KOH dissolves keratin and allows easier visualization of fungal elements. Brief heating of the slide accelerates dissolution of keratin. When the preparation is viewed under the microscope, the refractile hyphae are seen more easily when the light intensity is reduced and the condenser is lowered. This technique can be used to identify

hyphae in dermatophyte infections, pseudohyphae and budding yeasts in *Candida* infections, and “spaghetti and meatballs” yeast forms in tinea versicolor. The same sampling technique can be used to obtain scale for culture of selected pathogenic organisms.

Tzanck Smear A Tzanck smear is a cytologic technique most often used in the diagnosis of herpesvirus infections (herpes simplex virus [HSV] or varicella zoster virus [VZV]) (see Figs. 217-1 and 217-3). An early vesicle, not a pustule or crusted lesion, is unroofed, and the base of the lesion is scraped gently with a scalpel