

Appendix 1. Dermatological conditions

Aetiology	Diagnosis/condition	Signs/symptoms	Differential diagnoses
Infective	Mastitis	Redness, swelling, pain, mass, purulent discharge	<ul style="list-style-type: none"> Granulomatous mastitis Tubercular mastitis Inflammatory breast cancer
	Nipple candidiasis	Burning, stinging; cracked, pink, shiny nipples; deep aching breast pain radiating down arm and into back	<ul style="list-style-type: none"> Raynaud's phenomenon of the nipple AD (eczema) Irritant contact dermatitis Allergic contact dermatitis Secondary bacterial infection of eczema or dermatitis
Inflammation	AD (eczema)	Itchy, flaky skin, red rash, crusting (usually bilateral)	<ul style="list-style-type: none"> Paget's disease of the nipple (usually unilateral) Psoriasis Allergic contact dermatitis Irritant contact dermatitis Nipple candidiasis Bacterial infection (impetigo, mastitis)
	Breast psoriasis	Erythematous plaques with silvery scales (unless inframammary regions affected where the lesions might appear macerated and lack scale) ¹⁰	<ul style="list-style-type: none"> Paget's disease of the nipple AD ACD ICD Nipple candidiasis Bacterial skin infections Inframammary psoriasis might mimic seborrhoeic dermatitis and intertrigo
	Granulomatous mastitis	Tender, painful mass, oedema, peau d'orange, abscess formation, ulceration/fistula ³²	<ul style="list-style-type: none"> Breast carcinoma IBC Breast abscess Infective mastitis Foreign body granulomas Diabetic mastopathy Systemic granulomatous conditions (eg sarcoidosis or tuberculosis)
Malignant	Paget's disease of the nipple	Redness, scaling, crusting, excoriation of nipple, spreads from central to peripheral	<ul style="list-style-type: none"> Eczema (AD) (usually bilateral) Psoriasis Allergic and irritant contact dermatitis Fungal skin infections Granulomatous mastitis
	Inflammatory breast cancer	Swelling, redness, peau d'orange, pain, nipple inversion or nipple discharge	<ul style="list-style-type: none"> Mastitis Breast abscess Non-inflammatory breast cancer

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Appendix 1. Dermatological conditions (cont'd)

Miscellaneous	Raynaud's phenomenon of the nipple	Nipple pain (can be severe, might be described as 'burning' or 'throbbing') classic triphasic colour change (white, blue, red) or biphasic colour change (white, blue)	<ul style="list-style-type: none">• Nipple candidiasis• Secondary bacterial infection of the skin• Mastitis
	Blocked Montgomery tubercle/gland	White dots or blebs on areola	<ul style="list-style-type: none">• Nipple bleb (blocked milk duct)• Bacterial skin infection

ACD, allergic contact dermatitis; AD, atopic dermatitis; IBC, inflammatory breast cancer; ICD, irritant contact dermatitis.