

Differential Diagnosis of Atopic Dermatitis



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KEYWORDS

• Atopic dermatitis • Eczema • Mimickers • Differential diagnosis

KEY POINTS

- Atopic dermatitis (AD) is a common inflammatory condition of the skin that has a broad clinical spectrum leading to frequent misdiagnosis.
- The characteristic features of AD, including age of onset, distribution, severe pruritus, xerosis, lichenification, and association with atopy, can help distinguish AD from common mimickers.
- The differential diagnosis of AD in children and adults includes seborrheic dermatitis, psoriasis, allergic contact dermatitis, molluscum dermatitis, tinea corporis, mycosis fungoides, dermatomyositis, pityriasis lichenoides chronica, Langerhans cell histiocytosis, polymorphous light eruption, actinic prurigo, and nutritional deficiency.

INTRODUCTION

Atopic dermatitis (AD) is a chronic inflammatory disorder characterized by severe pruritus and an eczematous dermatitis. The estimated prevalence in the United States is approximately 20%,¹ rendering it the most common chronic skin disease in children. Clinically patients with AD can present with mild to severe disease, and lesions can range from weepy erythematous papules and plaques to lichenified xerotic plaques. The characteristic clinical features and distribution tend to evolve based on the patient's age (**Table 1**).

Occasionally, patients who carry a diagnosis of AD may display atypical clinical features that prompt the clinician to broaden the differential diagnosis. When the diagnosis is unclear, both knowledge of clinical findings seen in association with AD (**Table 2**) and recognition of potential alternative diagnoses are important for patient care because management and prognosis may differ. This article provides an overview of the dermatologic conditions that can potentially mimic AD. Although patients

Disclosure Statement: The authors have nothing to disclose.

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Immunol Allergy Clin N Am 37 (2017) 11–34

<http://dx.doi.org/10.1016/j.iac.2016.08.009>

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| | Infantile | Childhood | Adolescent or Adult |
|--------------|--|--|--|
| Age Range | Birth to 6 mo | 6 mo to 12 y | >12 y of age |
| Lesions | Exudative erythematous weepy papules and plaques | Weepy erythematous papules and plaques intermixed with lichenified plaques, particularly in flexural areas | Erythematous papules and plaques with xerotic scale and crust Lichenified plaques in flexural areas |
| Distribution | Scalp, face, trunk, extensor surfaces | Flexural surfaces, including antecubital and popliteal fossa, wrist, and neck | Hands, flexural surfaces, upper trunk |

Data from Saeki H, Nakahara T, Tanaka A, et al. Clinical practice guidelines for the management of atopic dermatitis 2016. *J Dermatol* 2016. [Epub ahead of print]; and Eichenfield LF, Tom WL, Chamlin SL, et al. Guidelines of care for the management of atopic dermatitis: section 1. Diagnosis and assessment of atopic dermatitis. *J Am Acad Dermatol* 2014;70(2):338–51.

with immunodeficiency, autoimmune, or genetic syndromes, such as hyper-IgE syndrome, immune dysregulation polyendocrinopathy X-linked syndrome (IPEX), Wiskott-Aldrich, and Netherton syndrome can also present with clinical features of AD, this article mainly focuses on primary dermatologic disorders and their distinguishing morphologic features.

SEBORRHEIC DERMATITIS

Seborrheic dermatitis is a common inflammatory condition of the skin with 2 peaks in incidence during early infancy (weeks 2–10) and adulthood.^{2,3} Sebaceous gland stimulation and hypersensitivity to yeast, particularly *Malassezia*, have been implicated in the pathogenesis of seborrheic dermatitis.^{3,4}

| Features | Clinical |
|-----------------------------------|---|
| Pityriasis alba | Hypopigmented patches on face, upper trunk, upper extremities |
| Keratosis pilaris | Follicular hyperkeratosis of outer arms, lateral cheeks, buttocks, thighs |
| Dennie-Morgan fold (atopic pleat) | Extra line on lower eyelid |
| Allergic shiners | Violaceous to gray color of infraorbital area |
| Allergic salute | Transverse linear crease on nose |
| Hyperlinear palms | Increased and exaggerated skin markings on palms |
| Ichthyosis vulgaris | Scaling of extensor extremities, fish-scale appearance of extensor leg |
| Hertoghe sign | Loss of lateral eyebrows |
| White dermatographism | Blanching of skin after stroking |
| Circumoral pallor | Pallor of perioral area |
| Nummular dermatitis | Sharply circumscribed thick coin-shaped scaly plaques |

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