



Diagnosing AD and PN in your patients

Get to know the signs and symptoms of atopic dermatitis (AD)
and prurigo nodularis (PN).

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How to diagnose AD

What is AD?

AD is a common, chronic, and fluctuating inflammatory skin disease that is characterised by persistent pruritus, embarrassing eczematous lesions, and frequent skin infections.¹⁻³



AD

The signs and symptoms

AD is diagnosed clinically based on medical history, morphology and distribution of skin lesions, and associated clinical features. When examining patients, the signs and symptoms of AD to look out for are⁴:

Essential

- Pruritus
- Acute, subacute, or chronic eczema*

Important

- Early age of onset
- Atopy with personal and/or family history and immunoglobulin E reactivity
- Xerosis

Associated

- Atypical vascular responses (eg, facial pallor, white dermographism, and delayed blanch response)
- Keratosis pilaris/pityriasis alba/hyperlinear palms/ichthyosis
- Ocular/periorbital changes
- Other regional findings (eg, perioral changes/periauricular lesions)
- Perifollicular accentuation/lichenification/prurigo lesions
- Comorbidities and clinical associations such as allergies, asthma, allergic rhinitis/rhinoconjunctivitis, sleep disturbance, depression, and obesity

Differentiating AD from PN

AD presents with an often diffuse distribution of eczematous lesions while PN presents with an often symmetrical distribution of firm, nodular lesions.^{1,5}

*Essential AD features are typical morphology and age-specific patterns (facial, neck, and extensor involvement in infants and children, current or previous flexural lesions in any age group, and a sparing of the groin and axillary regions) and a chronic or relapsing history.⁴

Patients with AD may present with different phenotypes

AD is a heterogeneous disease associated with multiple phenotypes and variable intensity of itch and lesions⁶:

AD phenotypes^{6*}



Itch-dominant (SI-ML) AD is a common, burdensome, and distinct subtype of AD, occurring in up to 29% of patients. The proportion of patients with itch-dominant AD was higher in women and patients of African descent.⁶

*Results were based on a 2021 prospective, dermatology practice-based study of 592 adults with AD in the United States. This study used web-based questionnaires, physical exams, and combined itch and lesional severity to determine the characteristics, associations, burden, and disease course of patients with AD. Four AD subsets were defined using a verbal rating scale for average itch combined with EASI, objective SCORAD, or vIGA-AD.⁶



Not an actual patient.

The damaging disease burden

Persistent pruritus is much more than just an irritating sensation—it is the most burdensome symptom for patients with AD and can significantly disrupt their daily activities, sleep, and psychological well-being.^{2,7}

It is recommended that you ask your patients with AD about⁴:

- Pruritus (itch)
- Sleep
- Impact on daily activity (including effects on work, school, and well-being)
- Disease persistence

AD in patients of colour

Recognising the difference

The signs and symptoms of AD in skin of colour may differ in visual appearance, predominantly due to differences in pigmentation and lesion distribution. It is important to recognise these differences in your patients with darker skin⁸:

Pigmentation differences	<ul style="list-style-type: none">• Erythema that may appear violaceous*• Lichenification, hyperlinearity of the palms, Dennie-Morgan lines, and diffuse xerosis• Postinflammatory dyspigmentation (including hyperpigmentation and hypopigmentation)
Location of lesions	<ul style="list-style-type: none">• Extensor involvement, which may be more common than flexural dermatitis• Perifollicular accentuation and scattered distinct papules on the extensor surfaces and trunk

Compared with White patients, those of Asian descent are more likely to have well-demarcated lesions and increased scaling and lichenification⁸



How to diagnose PN

What is PN?

PN, also described as chronic prurigo of the nodular type, is a distinct, chronic, and underrecognised inflammatory skin disease that is characterised by disfiguring, often excoriated nodules and intractable pruritus.^{5,9,10} PN is more common in older adults aged 50-55 years, women, and disproportionately people of African descent.^{5,10}



PN

The signs and symptoms

PN has a characteristic appearance on morphology. When examining patients, the signs and symptoms of PN to look out for are^{5,11}:

Essential

- The presence of firm, nodular lesions*
- Pruritus lasting ≥ 6 weeks
- A history and/or signs of repeated scratching, picking, or rubbing (eg, excoriations and scars)

Important

- A symmetrical distribution of lesions on areas of skin that are accessible to scratching (rarely found on the face, palms, soles, scalp, or genitals)
- The presence of additional lesions induced by scratching, picking, or rubbing (eg, lichenified plaques, excoriations, ulcerations, and/or scars)
- Pruritus that is accompanied by burning, stinging, pain, and/or other sensations

Associated

- Burden of disease, such as impaired quality of life, sleep deprivation, missed work and/or school, emotional impact (eg, depression, anxiety, anger, shame, helplessness), and social isolation
- Systemic comorbidities, such as impaired liver, renal, or thyroid function, diabetes, HIV infection, hepatitis B/C, and malignancy

Differentiating PN from AD

PN presents with an often symmetrical distribution of firm, nodular lesions while AD presents with an often diffuse distribution of eczematous lesions.^{1,5}

*The presence of lesions may be localised or generalised. Lesions may also be clinically defined as pruriginous lesions, which are excoriated, scaling, and/or crusted papules and/or nodules and/or plaques, often with a whitish or pink centre and a hyperpigmented border.¹¹



Not an actual patient.

Laboratory assessment for PN

Initial laboratory assessment for all patients suspected of having PN should include¹¹:

- A complete blood cell count with differential
- Hepatic and renal function tests


Recognising PN in patients of colour

It is important to remember that the signs and symptoms of PN may look different in patients of colour.^{5,11} Postinflammatory dyspigmentation, including hyperpigmentation and hypopigmentation, is more common in darker skin.¹²

The burden of PN is oppressive

PN severely impacts many aspects of patients' lives.¹³ A study has shown that patients with PN experience a higher burden of disease than patients with several other chronic pruritic skin diseases. The study also showed that pruritus in PN was more severe than that of the other skin diseases.¹⁴

Although PN can be associated with AD, most patients with PN do not have a history of AD¹⁵⁻¹⁷



Consider the damage being done in AD and PN

Not actual patients.

Interested in learning more?

Visit **IL31role.com** to learn more about AD, PN, and IL-31: a cytokine that plays a role in these chronic inflammatory skin diseases^{10,18,19}

The images in this material are not of actual patients with AD or PN. They were created based on informed Galderma insights. AD and PN can manifest in individuals differently.

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