

Chronic spontaneous urticaria

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1 Chronic spontaneous urticaria is defined by the presence of hives daily or almost daily for at least six weeks

Patients present with recurrent, pruritic, wheal-and-flare lesions that fade within 24 hours without scarring.¹ The condition can occur with angioedema in 30%–50% of patients and should be differentiated from acute urticaria (lasting < 6 weeks) and physically induced urticaria (e.g., by cold temperatures or delayed pressure).¹

2 The condition primarily affects the working population and may have a substantial impact on quality of life

Chronic spontaneous urticaria has a peak incidence between the ages of 20 and 40 years, lasting one to five years in most patients, but longer in severe cases.² The condition affects 0.5%–1% of the general population;² women are affected twice as often as men.³ School or job performance and sleep can be substantially affected.²

3 Although the pathophysiology is unknown, autoimmune mechanisms have been proposed

Immunoglobulin E (IgE) autoantibodies have been implicated in the cause of chronic spontaneous urticaria, and autoimmune conditions, such as thyroid disease and systemic lupus erythematosus, have been found to be associated with the condition.³ In contrast to acute urticaria, chronic spontaneous urticaria is not usually caused by IgE-mediated reactions to external allergens (e.g., food).¹

4 The diagnosis is based on a thorough history and physical examination

A recent guideline recommends avoiding extensive testing, because most patients will have no identifiable cause.¹ Initial investigations should be limited to a complete blood count with differential, C-reactive protein and erythrocyte sedimentation rate to exclude underlying malignant disease or an inflammatory condition.¹

5 First-line treatment is a second-generation H₁-antihistamine

Because the condition is self-limiting, the goal of treatment is symptomatic relief. Second-generation H₁-antihistamines are preferred over first-generation antihistamines because they are less sedating and have fewer anticholinergic effects.^{1,4} For cases refractory to standard doses of H₁-antihistamines (up to 50% of cases), treatment can be escalated (Appendix 1, available at www.cmaj.ca/lookup/suppl/doi:10.1503/cmaj.150951/-/DC1). Referral to a clinical allergist and immunologist is useful for discussing third-line treatment options.^{1,2,5}

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