

STOP, THINK

PRIMARY CARE RESPIRATORY JOURNAL

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Management of urticaria

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Received 7 March 2005; accepted 10 March 2005

A 35-year of woman presents in you dsurgery with a two-month history of an almost continuous widespread red, itchy rash. She has been taking anti-histamine tablets, as recommended by her local pharmacist, but with little effect. Increasingly distressed, she wants to know if there is anything else that can be done.

What issues you should cover

• Is this urticaria? Urticaria is characterised by red, raised, itchy wheals which may be 'acute' (defined as single or episodic symptoms lasting for less than six weeks) or 'chronic' (daily or almost daily symptoms occurring for more than six weeks). Acute urticaria is common, affecting 15-24% of people at some point in their lives, and occurs most commonly in children and young adults. Chronic urticaria occurs in approximately 0.1% of the population and is more common

* Corresponding author. Tel.: +44 1926 838975; fax: +44 1926 493224. E-mail address: s.walker@nrtc.org.uk (S. Walker). in middle-aged women. Approximately 50% of chronic urticaria is complicated by angiodema.

- What is the underlying cause? Identifying an underlying cause is often difficult; even after extensive investigation no underlying cause is found in up to 50% of those patients with acute, and 70% of those with chronic urticaria. Although many causes have been described (see Box 1), in practice the most common identified triggers of acute urticaria are viral infections, drugs and allergic (IgE-mediated) reactions to foods and insect stings. Chronic urticaria is most commonly triggered by drugs and physical or psychological stresses, but importantly, in some cases, may be a marker of underlying malignancy or a systemic disorder. Enquire whether individual urticarial lesions persist in the same location for more than 24 hours and/or if they leave bruises on the skin positive responses to either question is indicative of underlying vasculitis.
- Is quality of life affected? Chronic urticaria, in particular, can cause significant debility including sleep disturbance, low energy levels, disruption of daily activities and social isolation.

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Acute urticaria	
Foods:	Allergic — commonly peanuts, eggs, fish, cows milk, and shellfish (but consider any as potential cause of food allergy)
	Histamine-releasers – e.g. strawberries
	Other – scombroid poisoning (from tuna), alcohol, food additives, spices, preservatives
Drugs and chemicals:	Allergic – e.g. penicillins, cephalosporins
	Histamine-releasers e.g. radiocontrast media, plasma expanders, muscle relaxants,
	opiates, toxins from nettles and jellyfish
	Other - non-steroidal anti-inflammatory drugs, ACE-inhibitors, morphine and codeine
Other causes:	Latex
	Blood products
	Bee or wasp stings
	Viral or parasitic infections
	Idiopathic
Chronic urticaria	
Physical cause:	Mechanical
	Thermal
	Solar
	Cold
	Water
Pressure:	Dermatographism
Cholinergic:	Emotion
	Exercise
	Heat GIUUP
Other causes:	Systemic illness
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Box 1: Causes of acute and chronic urticaria

What you should do

Examine the rash if present – urticarial lesions blanch on pressure. Examine those with chronic urticaria for signs of underlying systemic disease.

- If the cause of an acute episode of urticaria is obvious, further investigations are usually unnecessary. Suspected food (and in some cases drug) allergens can be confirmed by specific IgE blood tests (usually done via the local pathology laboratory) or skin prick testing.
- Explain that acute urticarial episodes are typically severe for a few hours before gradually resolving over the following three to four days. Symptoms usually respond well to anti-histamines, although these tend to be more effective in suppressing the itch than the wheal. Treatment should be taken regularly while the symptoms persist.
- Patients with symptoms and/or signs suggestive of urticarial vasculitis should be referred to a dermatologist or immunologist for a wheal biopsy to confirm the diagnosis; organise blood tests

for C3 and C4 assays and inflammatory markers such as erythrocyte sedimentation rate (ESR) and C-reactive protein (CRP) whilst awaiting assessment.

- Patients with chronic urticaria should be referred to an allergist or immunologist; organise C3 and C4 complement levels, thyroid auto-antibodies, full blood count and ESR/CRP whilst awaiting assessment. Once physical causes have been identified (see Box 1), further investigation is usually unrewarding.
- In chronic urticaria, spontaneous remission often occurs within 12 months, but it has been estimated that 50% of patients experiencing symptoms for more than three months will still be affected three years later.
- Treatment for chronic symptoms should be timed to prevent known diurnal exacerbations. Nonsedating anti-histamines should be given to control daytime symptoms, whilst sedating antihistamines may be more effective for persistent nocturnal symptoms.
- In patients with chronic urticaria in whom symptoms are not controlled by conventional

doses of anti-histamines, increasing the dose or adding in an H₂-blocker may be considered, although there is little evidence to support these strategies. Cetirizine 10 mg once daily plus hydroxyzine 25 mg at night (if night-time itching is a problem), combined with ranitidine 150 mg twice daily, represents one such strategy. Another approach is to try cetirizine 10 mg once daily, increasing to 20-30 mg daily if symptoms are unresponsive, combined with ranitidine 150 mg twice daily — note, however, that use of cetirizine at these doses is unlicensed.

• Systemic steroids may be helpful in chronic urticaria when anti-histamines prove ineffective, although high doses are typically required. Prolonged use may cause unacceptable side-effects.

Contributorship

The paper was written jointly by Samantha Walker and Aziz Sheikh. Samantha Walker is the guarantor for this paper.

Conflict of Interest

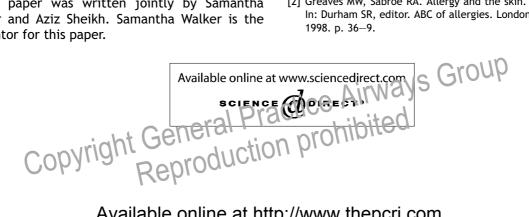
SW and AS have received reimbursement for lectures and meetings by Schering-Plough Ltd., UCB Pharma, Aventis, Pfizer Ltd, GlaxoSmithKline.

Acknowledgements

The authors would like to thank Dr. Alexandra Croom, Consultant Allergist, Leicester University Hospital, for her helpful comments.

Further reading

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