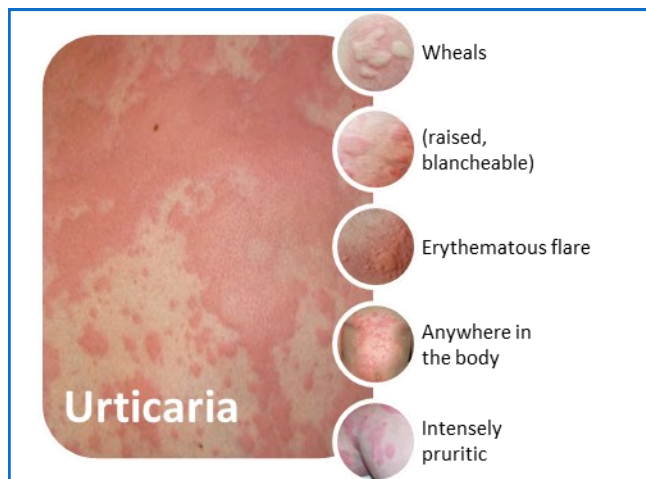


# URTICARIA

## Referral and Management Pathway for Primary Care



**Is urticaria present (with or without angioedema)?**  
(confirmed on examination/photographs)

**N.B.** If individual lesions last >24h and leave bruising or scarring → refer to Dermatology, as could be urticarial vasculitis

**Do any of these apply?**

- Reasonable suspicion of specific allergic triggers<sup>1</sup>
- Additional features suggestive of anaphylaxis<sup>2</sup>

*Caution: do not over-interpret minor symptoms readily attributable to anxiety*

**Is there angioedema only?**

**Do any of these apply?**

- At least some urticaria is present most days (with/without major flare-ups)
- There are clear physical triggers<sup>3</sup>

**Is the patient on ACEi?**

**Stop ACEi and wait 3 months<sup>7</sup>**

**Other skin problem (with/without systemic features)**

**Refer to Dermatology (urgently if with systemic features)**

**Refer to Allergy/ Immunology**

**Chronic spontaneous or inducible urticaria**

- Treat following a stepwise management plan<sup>5,6</sup>

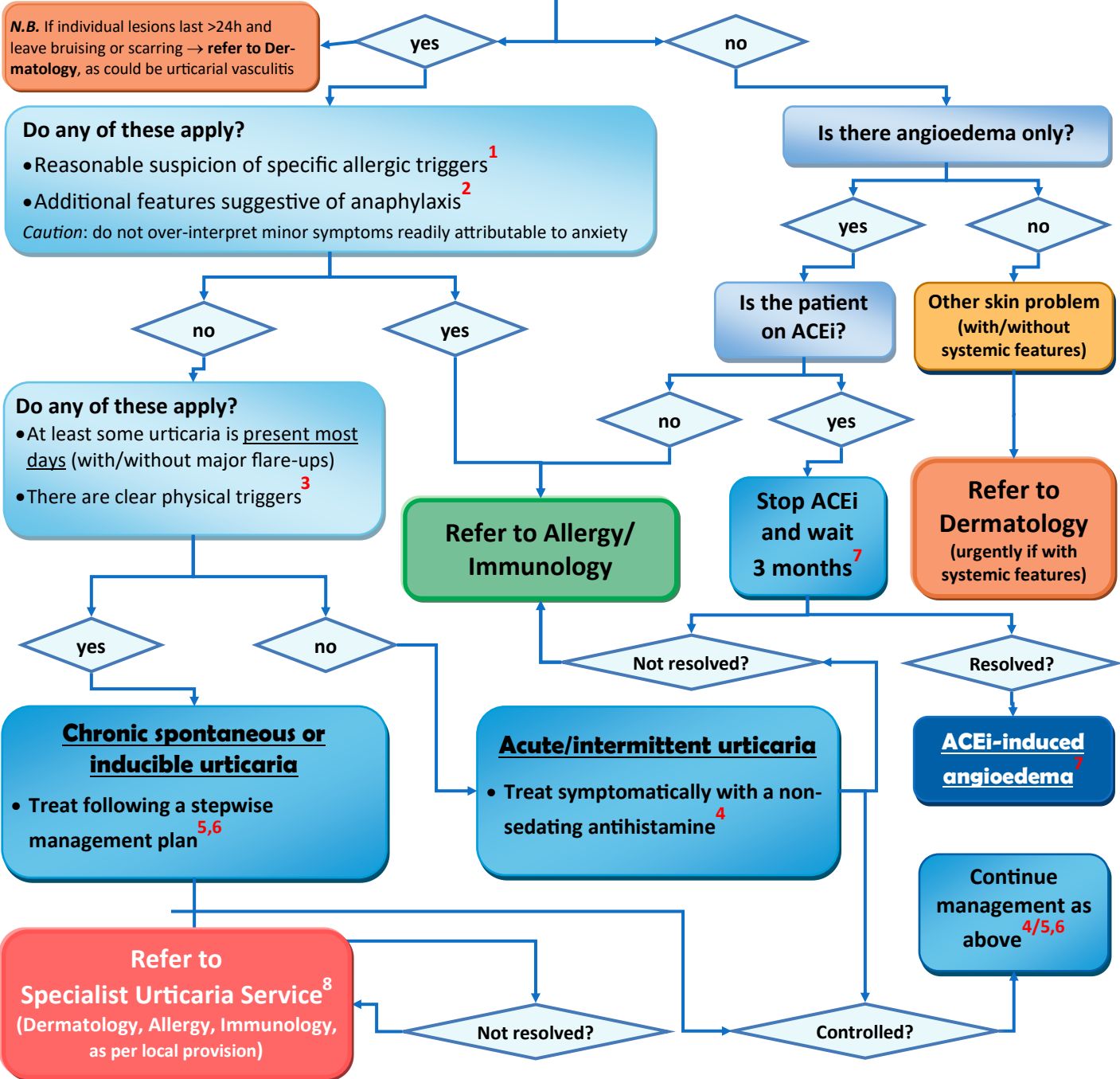
**Acute/intermittent urticaria**

- Treat symptomatically with a non-sedating antihistamine<sup>4</sup>

**ACEi-induced angioedema<sup>7</sup>**

**Continue management as above<sup>4,5,6</sup>**

**Refer to Specialist Urticaria Service<sup>8</sup>**  
(Dermatology, Allergy, Immunology, as per local provision)



# NOTES

## Note 1

### Reasonable suspicion of specific allergic triggers for urticaria

- Usually single (or multiple cross-reactive) suspected culprit(s); e.g. nuts; penicillins, etc.
- Onset of urticaria/angioedema within 2 hours of exposure (usually less)
- Consistent association between exposure to suspected culprit(s) and onset of episodes (*i.e.* urticaria/angioedema occur *only* when exposed and upon *every* exposure)
- A **patient episode diary** with their characteristics and photographs, frequency, duration and suspected triggers/surrounding circumstances up to 2 hours before onset can be very useful to identify/exclude possible allergic triggers

## Note 2

### Additional features suggestive of anaphylaxis

- Significant mucosal angioedema (visible tongue swelling, upper airway obstruction)
- Bronchospasm
- Syncope

## Note 3

### Inducible urticarias - physical and other triggers

- Pressure/trauma<sup>®</sup> **dermographism, delayed pressure urticaria**
- Cold<sup>®</sup> **cold urticaria; please refer all patients**
- Heat<sup>®</sup> **heat urticaria**
- Vibration<sup>®</sup> **vibratory urticaria/angioedema**
- Sunlight<sup>®</sup> **solar urticaria** (consider more common differential diagnosis of polymorphic light eruption)
- Increased body temperature/exercise/sweating<sup>®</sup> **cholinergic urticaria**
- Contact with allergens (e.g. animal dander, grass pollen, latex, etc.)<sup>®</sup> **contact urticaria**

## Note 4

### Treatment of acute/intermittent urticaria and angioedema

- Treat symptomatically - when required until full resolution of urticaria and angioedema
- Use a **non-sedating antihistamine**, 2 tablets at the first sign of symptoms and continue with 1 or 2 tablets once or twice daily until resolution:
  - **cetirizine 10mg** - cost-effective 1st line: available OTC
  - **loratadine 10mg** - cost-effective alternative; available OTC
  - **fexofenadine 180mg** - suitable alternative if the above do not lead to symptom resolution
- Review patient diary and:
  - implement allergen avoidance measures (e.g. foods/drugs), if appropriate
  - consider referral/discussion with Allergy/Immunology if allergy strongly suspected

## NOTES Continued

### Note 5

#### Information on chronic spontaneous urticaria and angioedema (CSU) and chronic inducible urticarias (CIndU)

- Chronic urticaria and angioedema is defined by the presence of swellings and/or wheals, usually on most days of the week, for a duration of longer than 6 weeks
- In most cases, the pathogenesis is incompletely understood
  - An exogenous aetiology can be identified in only about 10% of patients.
  - In the majority of patients, **this is not an allergic condition**; rather, it is *spontaneous*.
  - Although not thought to be causative, there may be factors that exacerbate the condition, such as physical stimuli, stress, infection or ingestion of aspirin and other non-steroidal anti-inflammatory drugs (NSAIDs); as an example, patients may notice worsening of their symptoms following a hot shower, although in general, their symptoms wax and wane independent of any triggers
  - In most cases of chronic spontaneous urticaria and angioedema, without clinical signs or symptoms of an underlying disease, routine laboratory tests are normal
- Chronic spontaneous urticaria and angioedema is a self-limiting condition: ~50% of patients will have complete resolution after 6 months; ~70% after 3 years; ~90% after 5 years; ~92% after 25 years
- Management is symptomatic: antihistamines are effective in the vast majority of patients; other drugs may be considered if required
- See also <https://cks.nice.org.uk/topics/urticaria/>

### Note 6

#### Stepwise management plan for chronic spontaneous urticaria and angioedema (CSU), and chronic inducible urticarias (CIndU) - as per European and British guidelines<sup>Refs 1-3</sup>

- Provide information on CSU and /or CIndU (can co-exist), including natural history and management plan → detailed below + patient information leaflet from British Association of Dermatologists available at <https://www.bad.org.uk/pils/urticaria-and-angioedema/>
- Management is symptomatic: antihistamines are effective in the vast majority of patients; other drugs may be considered if required
- Provide advice on control of inducible urticaria, if applicable and practicable; e.g. exposure to cold, heat, trauma (loose-fitting clothes), etc. Further details in guideline on chronic inducible urticaria, listed in references.
- Treatment is based on the frequency and severity of symptoms following a **stepwise plan**, below:
  - If episodes are relatively mild/infrequent (as per patient perception), consider taking a **non-sedating antihistamine (e.g., cetirizine 10mg/loratadine 10mg/fexofenadine 180mg)** on an as-needed basis as per Note 4
  - If episodes are more severe/frequent, consider regular treatment; start with 1 tablet a day, which can be incrementally increased up to 4 tablets per day (e.g. 2 tablets twice daily); leave periods of 1-4 weeks between each incremental step
  - If symptoms remain inadequately controlled despite the above, addition of **montelukast 10mg** daily may provide additional benefit
  - Once complete control is achieved, remain on corresponding step for ~6 - 8 weeks before considering stepping down in a similar stepwise fashion, starting with montelukast, and then by gradual reduction of the non-sedating antihistamine; attempt medication changes every 1 - 4 weeks
  - If at any stage urticaria/angioedema recur, go back to the previous step that provided complete control and re-attempt stepping down ~6 - 8 weeks later. Recurrence of symptoms with decreasing treatment is not, in itself, a reason for referral
- Advise patient to seek immediate medical assistance if there is angioedema associated with breathing compromise
- Occasional and **brief** courses of oral **prednisolone** (e.g. 20 - 40 mg daily **up to 3 days**) may be used to control severe episodes. If there is apparent steroid dependency consider referral
- Please refer if patient remains uncontrolled despite maximum treatment as per the plan above, when we will consider other treatment strategies

## NOTES Continued

### Note 7

#### ACE inhibitor-induced angioedema

- ACE inhibitors (ACEi) are a common cause of drug-induced angioedema → ~1% of recipients
- It can occur with any ACEi and is not related to dose
- In >50% of cases, angioedema occurs during the first week of exposure, although it may occur any time during the course of therapy, from hours after starting to years of stable therapy
- Patients commonly present with swelling of the lips, tongue, upper airway (pharynx, larynx, and subglottic area) or face; another (less common) presentation is episodic abdominal pain and diarrhoea due to intestinal angioedema
  - Urticaria and itching are notably absent
  - Early signs of laryngeal oedema may include hoarseness of the throat and inspiratory stridor, which may progress to airway obstruction in up to 10% of cases. Rare cases of fatalities due to massive tongue swelling and asphyxiation have been reported.
- The diagnosis of ACEi-induced angioedema is clinical, based upon the presence of angioedema in a characteristic anatomic site, without itching or urticaria, in a patient taking ACEi; there are no definitive tests to identify those at risk or diagnose this condition
- The management of ACEi-induced angioedema is **discontinuation of the culprit drug and strict avoidance of all ACEi**
- Episodes of angioedema may persist for 3 months after this (though usually reduction of frequency and severity is observed shortly after); if episodes persist after this period, other causes must be investigated
- Angioedema associated with angiotensin receptor blockers (ARBs) has been occasionally reported and hence their use in individuals with ACEi-induced angioedema has been questioned but is not contra-indicated
- Antihistamines, glucocorticoids, and adrenaline are usually considered ineffective or minimally effective in treating ACEi-induced angioedema

### Note 8

#### Specialist Services provided by:

- **Greater Manchester**
  - Salford Care Organisation - Northern Care Alliance NHS Foundation Trust
  - Allergy Centre, Wythenshawe Hospital, Manchester University NHS Foundation Trust
  - Immunology and Allergy Service, Manchester Royal Infirmary, Manchester University NHS Foundation Trust
- **Liverpool, Cheshire & Mersey**
  - Liverpool University Hospitals NHS Foundation Trust
- **Lancashire & South Cumbria**
  - Lancashire Teaching Hospitals NHS Foundation Trust

#### References:

- Zuberbier T et al. The international EAACI/GA<sup>2</sup>LEN/EuroGuiDerm/APAAACI guideline for the definition, classification, diagnosis, and management of urticaria. *Allergy* 2022 Mar;77(3):734-766. doi: 10.1111/all.15090; EAACI—European Academy of Allergy and Clinical Immunology
- Magerl M et al. The definition, diagnostic testing, and management of chronic inducible urticarias - The EAACI/GA(2) LEN/EDF/UNEV consensus recommendations 2016 update and revision. *Allergy* 2016 Jun;71(6):780-802. doi: 10.1111/all.12884
- Powell R, Leech S, Till S et al. BSACI Guideline for the management of chronic urticaria and angioedema. *Clin Exp Allergy* 2015;45:547-65
- NICE Clinical Knowledge Summaries—Urticaria: <https://cks.nice.org.uk/topics/urticaria/> (accessed April 2024)
- Patient information leaflet from British Association of Dermatologists (BAD) available at <https://www.bad.org.uk/patient-information-leaflets/urticaria-and-angioedema> (accessed April 2024)