

# PAEDIATRIC URTICARIA GUIDELINE

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**Next Review Date:**

## References:

- RCPCH Allergy Care Pathways for Children Urticaria/Angio-oedema/Mastocytosis [https://www.rcpch.ac.uk/sites/default/files/RCPCH\\_Care\\_Pathway\\_for\\_Children\\_with\\_Urticaria\\_Angio-oedema\\_or\\_Mastocytosis.pdf](https://www.rcpch.ac.uk/sites/default/files/RCPCH_Care_Pathway_for_Children_with_Urticaria_Angio-oedema_or_Mastocytosis.pdf)
- [https://www.rch.org.au/clinicalguide/guideline\\_index/Urticaria/](https://www.rch.org.au/clinicalguide/guideline_index/Urticaria/)
- NICE guidelines for management of urticaria <https://cks.nice.org.uk/urticaria#!scenario>
- <https://www.bsaci.org/Guidelines/chronic-urticaria-and-angioedema>

This guideline is intended for use in A&E and general paediatric OPD to assist with the management of urticaria in children aged 6 months-18 years.

## Definitions

**Urticaria:** Urticaria is a superficial swelling of the skin (epidermis and mucous membranes) that results in a red (initially with a pale centre), raised itchy rash or wheal formation. It can be acute or chronic depending on its duration.



**Fig 1: Urticarial Rash**



**Fig 2: Angioedema**

**Angioedema:** Angioedema is a deeper form of urticaria with swelling in the dermis, submucosal or subcutaneous tissues, often affecting face (lips, tongue, eyelids), genitalia, hands, or feet. Urticaria and angioedema can co-exist but either can occur separately. In children, 50-80% of those with chronic urticaria have accompanying angioedema.

**Prevalence:** Acute urticaria: More prevalent, affecting 4.5 – 15% of children in the UK.

Chronic urticaria: Less prevalent, affecting 0.1-3% of children in the UK.

**Acute Spontaneous Urticaria** – an urticarial rash occurring for < 6 weeks.

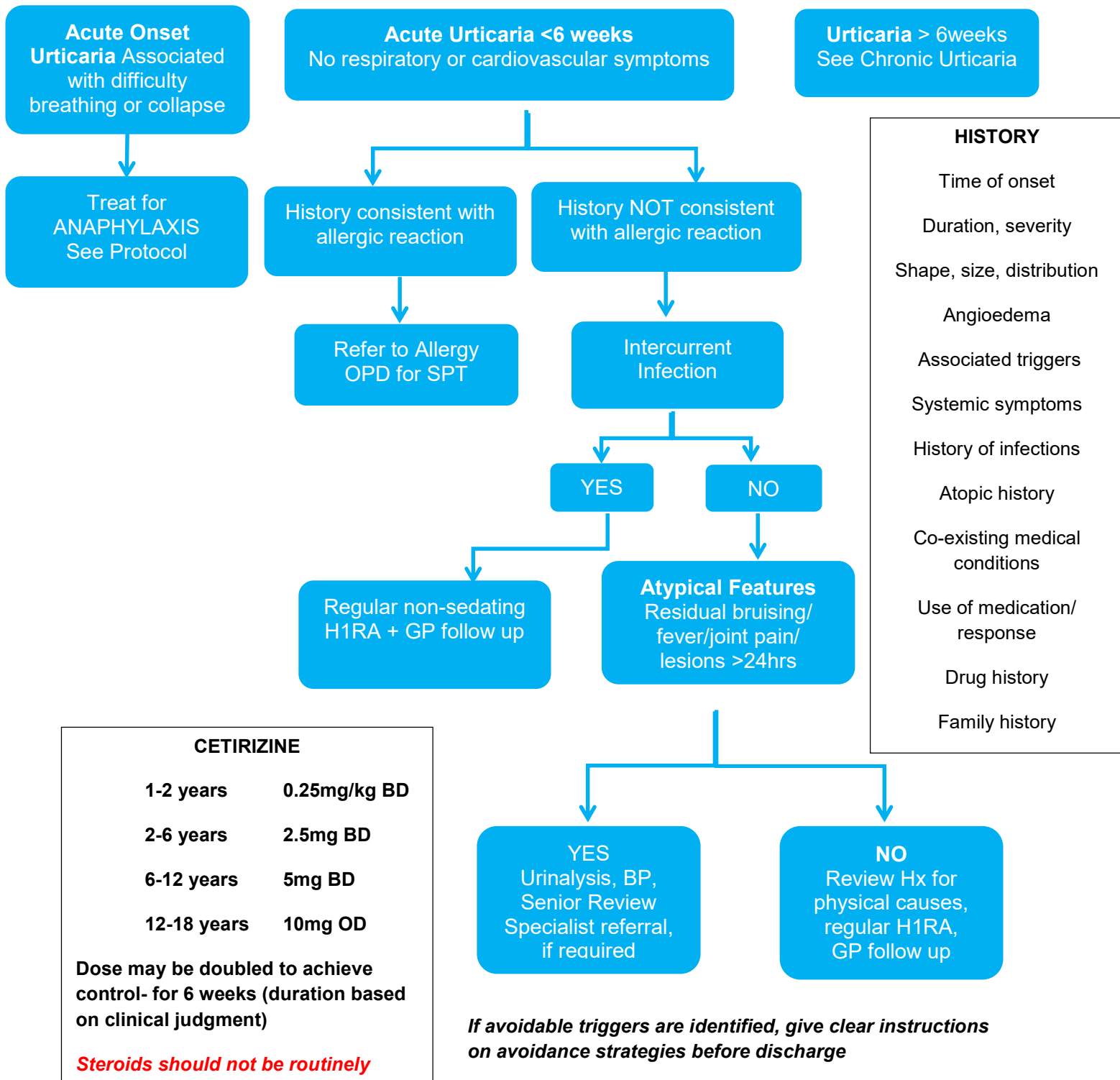
It is usually self-limiting, short-lived and occur spontaneously or in response to a trigger. Some of the known factors/ triggers can be:

- Viral infection
- Stress, Exercise
- Drugs: such as penicillin, aspirin, cefaclor, NSAIDS and vaccination
- Insect bites and stings
- Food (such as milk, eggs, peanuts, tree nuts, shellfish etc)
- Contact Allergens (latex, animal, plants)
- Physical triggers (pressure, cold, exercise, rarely water)

**Note that food allergies present within 15min-1 hour of ingestion of the food. If the child woke up with the rash, it is not a food allergy and more likely a viral urticaria**

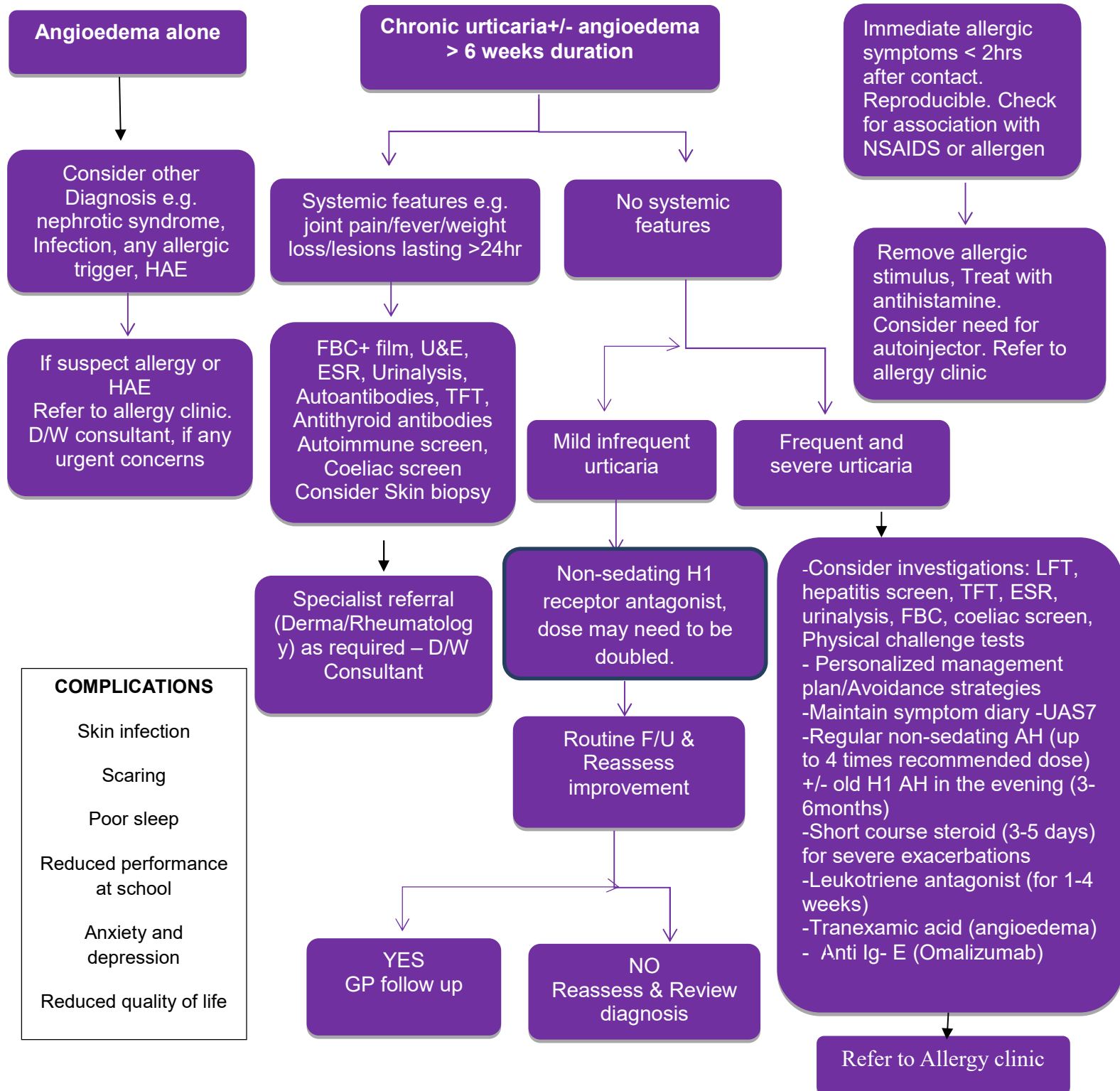
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## MANAGEMENT OF ACUTE URTICARIA



**Prognosis:** Excellent, most children respond well to standard treatment and do not need admission

## MANAGEMENT OF CHRONIC URTICARIA



**Consider Referral to clinical psychologist- for patients, whose symptoms are adversely affecting their quality of life and causing significant social and psychological problems**

**Chronic Urticaria** – an urticarial rash occurring on most days for > 6 weeks. It can be:

- 1- Chronic spontaneous urticaria: No known external cause. However, it may be aggravated by heat, stress, certain drugs or infection.
- 2- Autoimmune urticaria: 30-50% of chronic urticaria cases and may be associated with other autoimmune conditions (e.g. thyroiditis, coeliac disease)
- 3- Chronic inducible urticaria (CINDU): occurs in response to physical stimulus. It can be
  - Aquagenic urticaria (after contact with hot or cold water)
  - Cholinergic urticaria (after active or passive warming e.g. from exercise or emotion)
  - Cold urticaria (after exposure of skin to cold)
  - Heat urticaria (after exposure of skin to heat)
  - Symptomatic dermatographism (itchy and/or burning skin and the development of strip-shaped weal due to shear force acting on skin).
  - Delayed pressure urticaria (after application of sustained pressure e.g. after sitting or lying or due to tight clothing)
  - Solar urticaria (after visible or UV light exposure)
  - Vibratory angioedema (after exposure to vibration e.g. from use of vibratory tools)
  - Contact urticaria (After contact with eliciting agent)

**Indications for Referral to Specialist:**

- Individual lesions persist > 24 hours
- Lesions leave bruising/staining after resolution
- Fever, pain, or other constitutional symptoms are associated
- Elevated ESR/abnormal urinalysis
- Raised ANA

**Prognosis:**

Chronic urticaria: Reassure parents - not a severe disease, may remit and relapse

25% of children with CSU are disease free 3 years after presentation and 96% after 7 years.

**URTICARIA ACTIVITY SCORE- UAS7 Proforma**

<https://www.bidermato.com/wp-content/uploads/2018/04/UAS7-Questionnaire-EN.pdf>

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