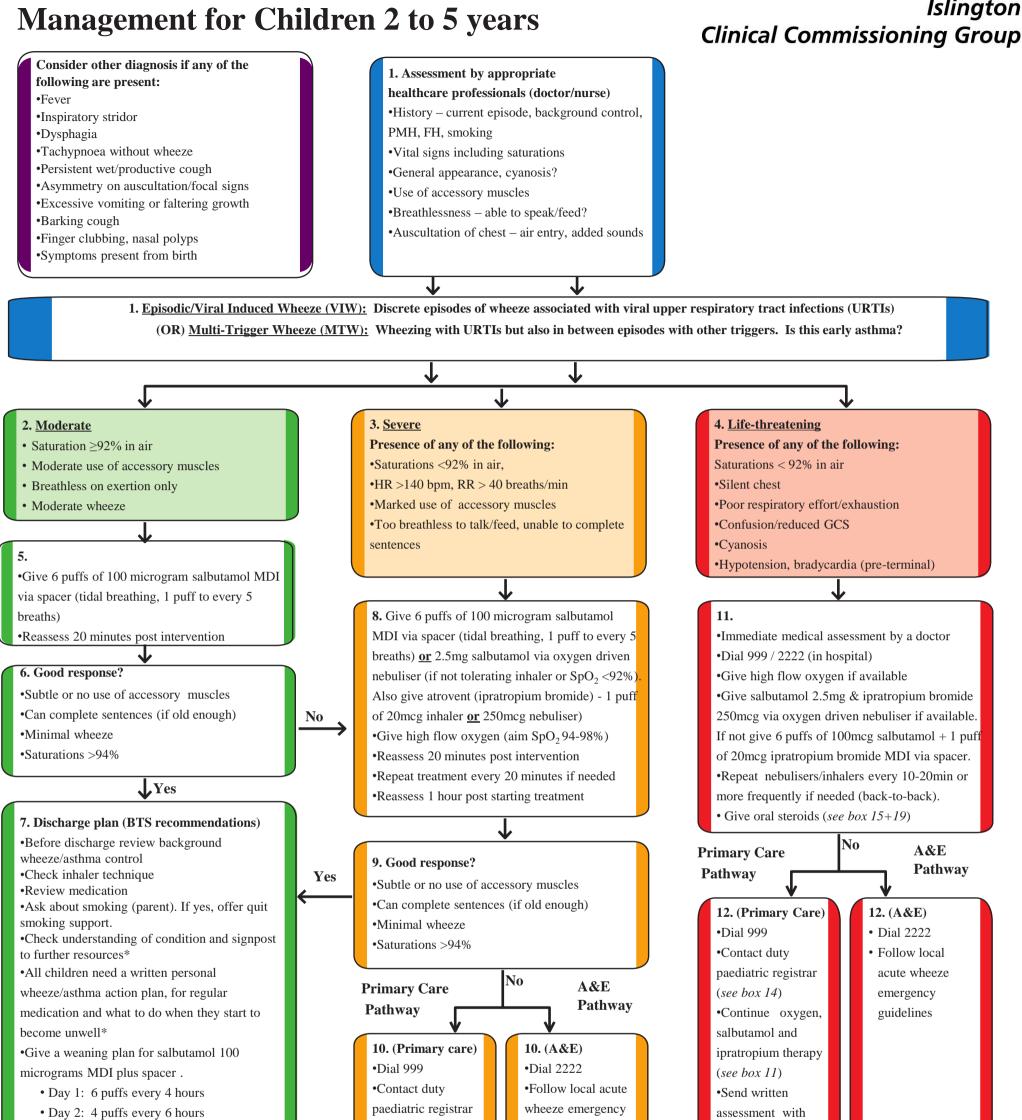
# Acute Wheezy Episode Management for Children 2 to 5 years



Day 3: 2 puffs as required
Advise parents to book a GP/Practice nurse review within 48hrs. Review as above.
Steroids (*see box 19*): There is little evidence for steroids in VIW, but it may be helpful in MTW. Consider if >3 episodes of VIW (unlicensed indication).

#### Referral to secondary care if: (see box 14)

- •Diagnosis unclear or in doubt
- •Symptoms present from birth or perinatal lung problem
- •Excessive vomiting or posseting
- •Persistent wet/productive cough, nasal polyps or clubbing
- •Family history of unusual chest disease
- •Failure to thrive or weight loss
- •Coexisting food allergies

### Referral to secondary care if: (see box 14)

guidelines

- •Unexpected clinical findings e.g. focal signs, abnormal voice or
- cry, dysphagia, inspiratory stridor
- •Failure to respond to conventional treatment (particularly inhaled corticosteroids >beclometasone 400 mcg/day (or
- equivalent) or frequent use of prednisolone (>2 courses/year)
- •Previous HDU/recurrent admissions or A+E attendances
- •Parental anxiety/need for reassurance or social concerns

•Ambulance transfer

atient

\* Useful resources: www.asthma.org.uk/for-professionals/ www.itchysneezywheezy.co.uk

Ref: The British Thoracic Society (BTS) British Guideline on the Management of Asthma (revised 2016)

# Acute Asthma Attack / Wheezy Episode Management Pathway for Children 2 to 5 years



13. Community Children's Nursing (CCN) Teams

#### Barnet

Tel: 020 8216 5242 E: <u>rf-tr.childrenshomecareteam@nhs.net</u>

Camden & South Barnet Tel: 020 7830 2571 E: rf.communitychildrensnurses@nhs.net

Enfield Tel: 020 8375 1992 E: <u>rf-tr.childrenshomecareteam@nhs.net</u>

Haringey Tel: 020 8887 3301 E: northmidchildrenscommunitynurses@nhs.net

Islington Tel: 0203 316 1950 whh-tr.islingtonchildrensnursing@nhs.net

# 16. Inhalers vs. nebulisers

For moderate asthma use an inhaler and spacer. If 5-years-old or older use the mouth piece, rather than mask (providing their technique is good)

Indications for nebulisers:

•Low saturations <92%

Unable to use inhaler and spacer (not compliant)
Severe and life-threatening respiratory distress
Nebulisers are not generally recommended for home use.

## 14. Secondary Care Referrals

\*<u>For urgent referrals, contact paediatric</u> <u>registrar on call via hospital switchboard</u>\*

**Barnet Hospital** Dr. Sue Laurent Sue.Laurent@nhs.net Switchboard: 020 8216 4600 **Royal Free Hospital** Dr. Rahul Chodhari R.Chodhari@nhs.net Switchboard: 020 7794 0500 North Middlesex Hospital Dr. Arvind Shah and Dr. Dhruv Rastogi Switchboard: 020 8887 2000 **University College Hospital** Dr. Eddie Chung Switchboard: 020 3456 7890 Whittington Hospital Dr. John Moreiras John.moreiras@nhs.net Switchboard: 020 7272 3070

### 15. Asthma predictive Index (API)

• For a positive API there must be a history of ≥4 wheezing episodes, with at least one doctor diagnosed episode.

•In addition the child must meet either one major criteria or at least two minor criteria::

### Major criteria

Parental history of asthma
Doctor diagnosed eczema (atopic dermatitis)
Allergic sensitisation to at least 1 aeroallergen (e.g. trees, grasses, dust mites)

### Minor Criteria

Allergic sensitisation to milk, egg or peanuts
Wheezing unrelated to colds
Blood eosinophils > 4%

# 17. Viral Induced wheeze (VIW)

- 1/3 of children have an episode of wheezing in the first 3 years of life, usually triggered by a viral infection.
   Only 20% of these children will go on to have asthma. The classification and treatment of wheeze in this age group continues to be debated.
- They should not routinely be labeled as having asthma as the pathophysiology of a VIW is different from that of asthma.
- Caveat: early onset asthma may be indistinguishable from VIW at first presentation.
- It is important to consider the temporal pattern of wheezing:
- Episodic (viral) wheeze: child only wheezes with viral URTIs and is symptom free in between episodes.
- <u>Multiple-trigger wheeze</u>: child wheezes with URTIs but also with other triggers such as exercise, smoke and allergen exposure.

### **19. Steroids**

- There is growing evidence that oral and Inhaled steroids are ineffective in preschool children (< 5yrs) presenting with VIW and therefore should not be prescribed routinely.
- Careful assessment of all children presenting with wheeze remains essential to ensure that the diagnosis of asthma is not missed.
- Consider oral corticosteroids in those who need HDU and/or have a positive API (box 15)
- Consider a trial of inhaled corticosteroids in children with MTW (i.e. beclometasone 200-400mcg daily for 4 to 8 weeks). If there is no improvement, stop. If there is improvement, stop and see if symptoms recur on stopping. If inhaled corticosteroid needed, the dose can then be reduced to the minimum amount required.

#### **Prednisolone** by mouth:

• <12 years 1 mg/kg (max. 40 mg) daily for up to 3 days (children's BNF)

• If weight not available, use a dose of 20mg for children 2-5 years (BTS guidelines 2012)

This guidance is written in the following context: This pathway was arrived at after careful consideration of the evidence available including but not exclusively using the BTS guidelines. The guidance does not, however, override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and/or guardian or carer. If you have any queries with regards to the information contained with this document please contact Dr John Moreiras (john.moreiras@nhs.net)

**Review date: December 2020**