Management of Wheeze in Primary Care Clinical Assessment / Management Tool under 2 years



Box 1: High Risk Factors -Box 2: Prompt recognition of Assess clinical signs and symptoms Healthcare professionals should Assess Risk factors respiratory failure be aware of the increased need Look for life threatening signs and symptoms for hospital admission in infants **Alarming Signs** Utilise AccuRx for its video-consultation and patient with the following: • SpO₂<92%, Cyanosis questionnaire functionalities Bradycardia < 100 beats /min Undertake pulse oximetry for all children seen face to face • Extreme low birth weight RR < 20 / Apnoea Prolonged NICU/SCBU See Boxes 1 and 2 • • Marked Sternal recessions

- CHD, pre-existing lung condition
- Reduced feeding <50%
- Previous severe episodes

Child presenting with acute wheeze ----- Immediate resuscitation if required. Dial 999

If the diagnosis is bronchiolitis, refer to the appropriate pathway. There is no indication for bronchodilators, as bronchodilators are not effective in the treatment of bronchiolitis.

- Worsening SOB
- Poor air entry
- Previous severe episodes
- Too breathless to feed

Assess severity (treat according to category of most severe signs and symptoms)				
	Green - Moderate	Amber - Severe	Red – Life Threatening	
Behaviour	Alert Normal	Irritable Not responding normally to social cues Decreased activities No smile	Unable to rouse Wakes only with prolonged stimulation Weak, high pitched or continuous cry Appears ill to a healthcare professional	
Skin	CRT < 2 secs Normal colour skin, lips and tongue Moist mucous membranes	CRT 2-3 secs Pale / mottled Pallor colour reported by parent / carer Cool peripheries	CRT > 3 secs Pale / mottled / ashen blue cyanotic lips and tongue	
Respiratory Rate	<12 months < 50 breaths / min >12 months < 40 breaths / min No respiratory distress	Tachypnoea < 12 months 50 – 60 breaths / min > 12 months 40-60 breaths / min	Tachypnoea All ages > 60 breaths / min	
SpO_2 in air*	95% or above	92-94%	<92%	
Chest recession	None	Moderate	Severe	
Nasal flaring	Absent	May be present	Present	
Grunting	Absent	Absent	Present	
Feeding / hydration	Normal Tolerating 75% of fluid Occasional cough induced vomiting	50-75% fluid intake over 3-4 feeds + / - vomiting Reduced urine output	< 50% fluid intake over 2-3 feeds + / - vomiting Significantly reduced urine output	
Apnoeas	Absent	Absent	Yes	
Other		Presence of High Risk Factors (box 2)		
Oxygen via facemask to maintain SpO ₂ 94-98% if availabl				
 Give 2-10 puffs of salbutamol via spacer +/- facemask (given 1 puff at a time, inhaled separately). Reassess 15-30 minutes post intervention 		 β2 bronchodilator (salbutamol) If SpO2 < 94%, via nebuliser (preferably oxygen-driven) If nebuliser not indicated/available, via space (10 puffs, one at a time) Re-assess 15 minutes post intervention 	 Refer to hospital A&E resus urgently via ambulance (999) High flow oxygen via face mask if available Give 10 puffs of salbutamol via face mask or nebuliser, oxygen driven if available 	
Repeat β ₂ bronch arrange admiss	Toodilator and tion via 999	Poor Response Repeat β ₂ bronchodilator and arrange admission via 999	 (See Table 3: Drug Doses) If poor response add ipratropium bromide dose mixed with the nebulised salbutamol (See Table 3: 	
 Send home v Check inhale Remember to Antibiotics sh Give safety n 	vith personalised written action plan r technique – continue salbutamol inhalers o check they have enough inhaler and appr hould not be routinely given etting advice	 Continue with further dose of bronchodilator while awaiting transfer 		

Table 3: Drug Doses:

Dose of Salbutamol nebulisers	<5yrs 2.5 mg	
Dose of Ipratropium Bromide nebulisers	250 mcg all ages (or up to 500mcg via nebuliser for over 12 years)	
Table 4: Inhalers vs Nebulisers		

Indications for nebulisers:

- Low saturations <94%
- Unable to use inhaler and spacer (not compliant)
- Significantly low Sats despite inhaler and spacer use
- Severe and life-threatening respiratory distress
- Nebulisers are generally not recommended for home use

Table 5 - Community Children's Nursing Teams

Bedford and North Bedfordshire

Children's Community Nursing Team 01234 310103 Children's Rapid Response Team - 07966025787

Luton and South Bedfordshire

- Children's Community Nursing Team 0333 405 0079
- Children's Rapid Response Team 07966025787

Milton Keynes

Children's Primary Care Team - 01908 303030 (choose option 4)

Table 6 - Secondary Care Referrals

Bedford General Hospital

Switchboard 01234 355122: Paediatric Registrar

Luton & Dunstable Hospital

Switchboard 01582 491166: Paediatric Registrar bleep 733 GP Urgent Connect (Monday-Friday 9-5pm) 01582 297297 for referrals and advice

Milton Keynes Hospital

01908 660033 bleep paediatrician on call.

This guidance has been produced by Primary Care and consultant clinicians across Bedfordshire, Luton and Milton Keynes, and is written in the following context:

This assessment tool was arrived at after careful consideration of the evidence available including but not exclusively NICE. SIGN, Bristol guideline, EBM data and NHS evidence. Healthcare professionals are expected to take it fully into account when exercising clinical judgement. 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. Issue date: November 2023