Acute Asthma / Wheeze Pathway (not for Bronchiolitis)

Clinical Assessment / Management Tool for Children & Young People Older than 1 year old with Acute Wheeze



Management – Primary Care and Community Setting

Patient	ASSESSMENT	Low Risk MILD - GREEN	Intermediate Risk MODERATE - AMBER	High Risk SEVERE - RED	IMMEDIATELY LIFE- THREATENING - PURPLE		Normal Values
>1 yr with wheeze presents:	Behaviour	Alert; No increased work of breathing	Alert; Some increased work of breathing	May be agitated; Unable to talk freely or feed	Can only speak in sing Confusion or drowsy;	gle words; Coma	Respiratory Rate at rest [b/min]
	O2 Sat in air	≥ 95%; Pink	≥ 92%; Pink	< 92%; Pale	< 92%; Cyanosis; Gre	y	>2-5 yrs 25-30
*avoid oral steroids in episodic wheezers (wheezers only with colds). Oral steroids play a role in treating acute exacerbations in multiple trigger wheezers (asthma, eczema, allergies) Consider other diagnoses:	Heart Rate	Normal	Normal	Under 5yr >140/min Over 5 yr >125/min	Under 5yr >140/min Over 5 yr >125/min Maybe bradycardic		>12 yrs 15-20 Heart Rate [bpm]
	Respiratory	Normal Respiratory rate	Under 5 yr <40 breaths/min Over 5 yr <30 breaths/min	Under 5 yr >40 breaths/min Over 5 yr >30 breaths/min	Severe Respiratory di Poor respiratory effort Silent chest	stress	1-2yrs 100-150 >2-5 yrs 95-140 >5-12 yrs 80-125 >12 yrs 60-100 Ref: Advanced Paediatric Life Support 5th Edition. Life Advance Support group edited by Martin
	Peak Flow □ (only for children > 6yrs with established technique)	Normal Respiratory effort	Mild Respiratory distress: mild recession and some accessory muscle use	Moderate Respiratory distress: moderate recession & clear accessory muscle use	Marked use of access and recession	ory muscles	
		PEFR >75% I/min best/predicted	PEFR 50-75% l/min best/predicted	PEFR <50% I/min best/predicted	PEFR <33% I/min bes too breathless to do P	t/predicted or EFR	Samuels; Susan Wieteska Wiley Blackwell/2011 BMJ Books
 Cough without a wheeze 							
 foreign body croup bronchielitie 		GREEN ACTION	AMBER ACTION	URGENT ACTION		ACT THR	ION IF LIFE EATENING
• DEDECEDICISE		 Salbutamol 2-4 'puffs' via inhaler & spacer (check inhaler technique) - use higher dose if Tx started by parent as per asthma action plan. Advise – Person prescribing ensure it is given properly Continue Salbutamol 4 hourly as per instructions on safety netting document. Provide: Appropriate and clear guidance should be given to the patient/carer in the form of an <u>Acute exacerbation</u> of <u>Asthma/Wheeze</u> safety netting sheet. If exacerbation of asthma, ensure they have a personal asthma plan. 	Salbutamol (check inhaler technique) x 10 'puffs' via inhaler and spacer • Reassess after 20 – 30 minutes • Oral Prednisolone within 1 hour for 3 days if known asthmatic <2 years - avoid steroids if episodic wheeze. 10mg/day if multiple trigger wheezer.* 2-5 years 20 mg/day Over 5 years 30-40 mg/day	 Refer immediately to emergency. Alert Paediatrician Oxygen to maintain O₂ Sat > 94% nasal cannula if available Salbutamol 100 mcg x 10 'puffs' v. OR Salbutamol 2.5 – 5 mg Nebulised Repeat every 20 minutes whilst awa If not responding add Ipratropium 20 salbutamol. Oral Prednisolone start immediately Paramedics to give nebulised Salbut Stabilise child for transfer and stary v. Send relevant documentation 	y care by 999 , using paediatric via inhaler & spacer d aiting transfer mcg/dose - 8 puffs or 250 r: 2-5 years 20 mg/day O itamol, driven by O ₂ , acco with child whilst waiting	Repeat Salbu gen-driven n immediate ho 0 micrograms/do ver 5 years 30-4 ording to protoco	utamol 2.5 - 5 mg via Oxy- ebuliser whilst arranging ospital admission - 999 se nebulised mixed with the 0 mg/day
FOLLOWING ANY ACU 1. <u>Asthma</u> / <u>wheeze</u> end inhaler technique 2. Written <u>Asthma/Wha</u> 3. Early review by GP	TE EPISODE, THINK: ducation and <u>eeze</u> action plan / Practice Nurse –	 Cońfirm they are comfortable with the decisions / advice given and then think "<u>Safeguarding</u>" before sending home. Consider referral to <u>acute paediatric</u> community nursing team if available 	 threatening asthma attack Follow Amber Action if: Relief not lasting 4 hours Symptoms worsen or treatment is becoming less effective 		H Depa	Hospital Emergency Department / Paediatric Unit	
This guidance has been rev	viewed and adapted by						

healthcare professionals across the Black Country





This document was arrived at after careful consideration of the evidence available including but not exclusively NICE, SIGN, EBM data and NHS evidence, as applicable. Healthcare professionals are expected to take it fully into account when exercising their 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 carer

Acute Asthma / Wheeze Pathway (not for Bronchiolitis)

Clinical Assessment / Management Tool for Children & Young People Older than 1 year old with Acute Wheeze



Management – Primary Care and Community Setting

Glossary of Terms				
ABC	Airways, Breathing, Circulation			
APLS	Advanced Paediatric Life Support			
AVPU	Alert Voice Pain Unresponsive			
B/P	Blood Pressure			
CPD	Continuous Professional Development			
CRT	Capillary Refill Time			
ED	Hospital Emergency Department			
GCS	Glasgow Coma Scale			
HR	Heart Rate			
MOI	Mechanism of Injury			
PEWS	Paediatric Early Warning Score			
RR	Respiratory Rate			
WBC	White Blood Cell Count			

