## 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 LIF THREATENING - P		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 singl Confusion or drowsy; C		Respiratory Rate at rest [b/min]         1-2yrs       25-35         >2-5 yrs       25-30         >5-12 yrs       20-25         >12 yrs       15-20         Heart Rate [bpm]         1-2yrs       100-150         >2-5 yrs       95-140         >5-12 yrs       80-125
	O2 Sat in air	≥ 95%; Pink	≥ 92%; Pink	< 92%; Pale	< 92%; Cyanosis; Grey	,	
*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		
	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 dis Poor respiratory effort:	tress	
	Peak Flow <sub>□</sub> (only for children > 6yrs with established technique)	Normal Respiratory effort	Mild Respiratory distress: mild recession and some accessory	Moderate Respiratory distress: moderate recession & clear	Silent chest Marked use of accessory muscles and recession		>5-12 yrs 80-125 >12 yrs 60-100 Ref: Advanced Paediatric Life Support 5th Edition. Life Advance
		PEFR >75% I/min best/predicted	muscle use PEFR 50-75% l/min best/predicted	accessory muscle use PEFR <50% l/min best/predicted	PEFR <33% l/min best/ too breathless to do PE		Support sin Editori. Life Advance Support group edited by Martin Samuels; Susan Wieteska Wiley Blackwell/2011 BMJ Books
<ul> <li>Cough without a wheeze</li> </ul>							DIVIJ DOUKS
<ul> <li>foreign body</li> <li>croup</li> <li>bronchiolitis</li> </ul>	HOME	GREEN ACTION	AMBER ACTION	URGENT ACTION			TION IF LIFE REATENING
		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 petting	<ul> <li>Salbutamol (check inhaler technique)</li> <li>x 10 'puffs' via inhaler and spacer</li> <li>Reassess after 20 – 30 minutes</li> <li>Oral Prednisolone within 1 hour for 3 days if known asthmatic</li> <li>&lt;2 years - avoid steroids if episodic wheeze. 10mg/day if multiple trigger wheezer.*</li> <li>2-5 years 20 mg/day</li> </ul>	<ul> <li>Refer immediately to emergency.</li> <li>Alert Paediatrician</li> <li>Oxygen to maintain O<sub>2</sub> Sat &gt; 94% nasal cannula if available</li> <li>Salbutamol 100 mcg x 10 'puffs' v.</li> <li>OR Salbutamol 2.5 – 5 mg Nebulised</li> <li>Repeat every 20 minutes whilst awa</li> <li>If not responding add Intertropium 20</li> </ul>	, <b>using paediatric</b> <b>via inhaler &amp; spacer</b> d aiting transfer	gen-driven i immediate h	outamol 2.5 - 5 mg via Oxy- nebuliser whilst arranging nospital admission - 999
		per instructions on safety neiting document. Provide: • Appropriate and clear guidance	Over 5 years 30-40 mg/day	<ul> <li>If not responding add Ipratropium 20mcg/dose - 8 puffs or 250 micrograms/dose nebulised mixed with the salbutamol.</li> <li>Oral Prednisolone start immediately: 2-5 years 20 mg/day Over 5 years 30-40 mg/day</li> <li>Paramedics to give nebulised Salbutamol, driven by O<sub>2</sub>, according to protocol</li> </ul>			
		should be given to the patient/carer in the form of an <u>Acute exacerbation</u> <u>of Asthma/Wheeze</u> safety netting sheet.	YES IMPROVEMENT? Lower threshold for referral to hospital if concerns about social	<ul> <li>Stabilise child for transfer and stay with child whilst waiting</li> <li>Send relevant documentation</li> </ul>			
		<ul> <li>If exacerbation of asthma, ensure they have a personal asthma plan.</li> <li>Confirm they are comfortable with</li> </ul>	circumstances/ability to cope at home or if previous severe/life threatening asthma attack	NO			
<ul> <li>FOLLOWING ANY ACU</li> <li>1. <u>Asthma</u> / <u>wheeze</u> equinhaler technique</li> <li>2. Written <u>Asthma/Whe</u></li> <li>3. Early review by GP</li> </ul>	ducation and <u>eeze</u> action plan	<ul> <li>the decisions / advice given and then think "<u>Safeguarding</u>" before sending home.</li> <li>Consider referral to <u>acute paediatric</u> community nursing team if available</li> </ul>	<ul> <li>Follow Amber Action if:</li> <li>Relief not lasting 4 hours</li> <li>Symptoms worsen or treatment is becoming less effective</li> </ul>			Hospital Emergency Department / Paediatric Ur	
This guidance has been rev	viewed and adapted by cross the Black Country	This document was arrived at after careful consideration of	the evidence available including but not exclusively NICE, S	SIGN, EBM data and NHS evidence, as applicable. Health	ncare professionals are expected to tal	ke it fully into account	when exercising their clinical judgement. The

healthcare professionals across the Black Country





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## 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			

