## 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



_		ASSESSMEN	IT Low Risk MILD-GREEN	Intermediate Risk MODERATE-AMBER	High Risk SEVERE-RED	IMMEDIATELY LIFE- THREATENING-PURPLE	Ξ	Normal Values Respiratory Rate at rest [b/min]	
	Patient >1yr with wheeze	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 single words; C fusion or drowsy; Coma	Con-	1-2yrs 25-30 >2-5 yrs 25-30	
	presents	O2 Sat in air	≥ 95%; Pink	≥ 92%; Pink	<u>&lt;</u> 92%; Pale	<92% Cyanosis; Grey		>5-12yrs 20-25 >12yrs 15-20	
		Heart Rate	Normal	Normal	Under 5yr >140/min Over 5yr > 125/min	Under 5yr >140/min Over 5yr > 125/min Maybe bradycardic		Heart Rate [bpm] 1-2yrs 100-150	
	*avoid oral ster- bids in episodic wheezers wheezers only with colds). Oral	Respiratory	Normal Respiratory rate Normal Respiratory effort	Under 5 yr <40 breaths/min Over 5 yr <30 breaths/min Mild Respiratory distress; mild	Under 5 yr >40 breaths/min Over 5 yr >30 breaths/min Moderate Respiratory distress;	Silent chest Cyanosis Poor Respiratory Effort		>2-5 yrs 95-140 >5-12yrs 80-125 >12yrs 60-100	
	steroids play a role in treating acute exacerba- tions in multiple rigger wheezers asthma, eczema,	Peak Flow° (only fo children > 6yrs with		recession and some accessory muscle use	moderate recession and clear ac- cessory muscle use	Exhaustion Confusion Hypotension		Ref: Advanced Paediatric Life Support 5 <sup>th</sup> Edition. Life Advance Support group edited by Martin Samuels; Susan Wieteska Wiley	
	allergies)	established technic	que) PEFR >75% l/min best/predicted	PEFR 50-75% I/min best/predicted	PEFR 50-75% I/min best/predicted	PEFR <33% l/min best/predicted too breathless to do PEFR	or	Blackwell/2011 BMJ Books	
(	Consider other diagnoses:		GREEN ACTION					LIFE THREATENING	
	Cough with-		GREEN ACTION	AMBER ACTION	URGENT ACTIO			LIFE IMREATENING	
date: May 2018	<ul> <li>Cough while</li> <li>Foreign body</li> <li>Croup</li> <li>bronchiolitis</li> </ul>	НОМЕ	Salbutamol 2-5 'puffs' via inhaler & spacer (check inhaler technique) - use higher dose if Tx started by parent as per asthma action plan.	Salbutamol (check inhaler tech- nique) x <b>10 'puffs'</b> via inhaler and spacer • Reassess after 20-30 minutes	nasal cannula if available	>94%, using paediatric	gen-unven nebunser whilst arrang-		
y 2016 - Review			Advise—Person prescribing en- sure it is given properly Continue Salbutamol 4 hourly as per instructions on safety netting document.	<ul> <li>Oral prednisolone within 1 hour for 3 days if known asthmatic</li> <li>2 years—avoid steroids if epi- sodic wheeze. 10mg/day if multi- ple trigger wheezer.*</li> </ul>	<ul> <li>OR Salbutamol 2.5-5mg Ne</li> <li>Repeat every 20 minutes with</li> <li>If not responding add Ipratr</li> </ul>	bulised hilst awaiting transfer		pital admission—999 ) micrograms/dose nebulised	
Final Version: Ma			<b>Provide:</b> Appropriate and clear guidance should be given to the patient/ carer in the form of an <u>Acute exac-</u> erbation of Asthma/Wheeze safety	2-5 years 20mg/day Over 5 years 30-40mg/day	mixed with the salbutamol • Oral prednisolone start imm • Paramedics to give nebulise • Stabilise child for transfer a	d Salbutamol, driven by $O_2$ , nd stay with child whilst wai	accordi		
ct 2011 -			netting sheet. If exacerbation of asthma, ensure they have a personal asthma plan.	IMPROVEMENT? Lower threshold for referral to hospital if concerns about social circumstances/ability	Send relevant documentation	on			
version: (	FOLLOWING ANY ACUT 1. Asthma/wheeze educ technique 2. Written <u>Asthma/whe</u>	cation and inhaler	Confirm they are comfortable with the decisions/advice given and then think " <u>Safeguarding</u> " before sending home. Consider referral to <u>acute paediat</u> -	Follow Amber Action if:	NO	Hospital Department			
First di	3. Early review by GP/Pi consider compliance	ractice Nurse—	ric community nursing team if available.	<ul> <li>Relief not lasting 4 hours</li> <li>Symptoms worsen or treatment</li> </ul>	is becoming less effective *To calcula	te Predicted Peak Flow-measure the o	child's hei	ight and then go to <u>www.peakflow.com</u>	

This guidance has been reviewed and adapted by Healthcare professionals across ABUHB with consent from the Hampshire development groups

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

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## Management—Primary Care and Community Setting



Glossar	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				