# Moderate Paediatric Asthma Attack Pathway – for use in children 5 yrs and over

(Primarily for use in the hospital setting - but can be used in GP if experience, equipment and time is available)

#### **Rapid Assessment:**

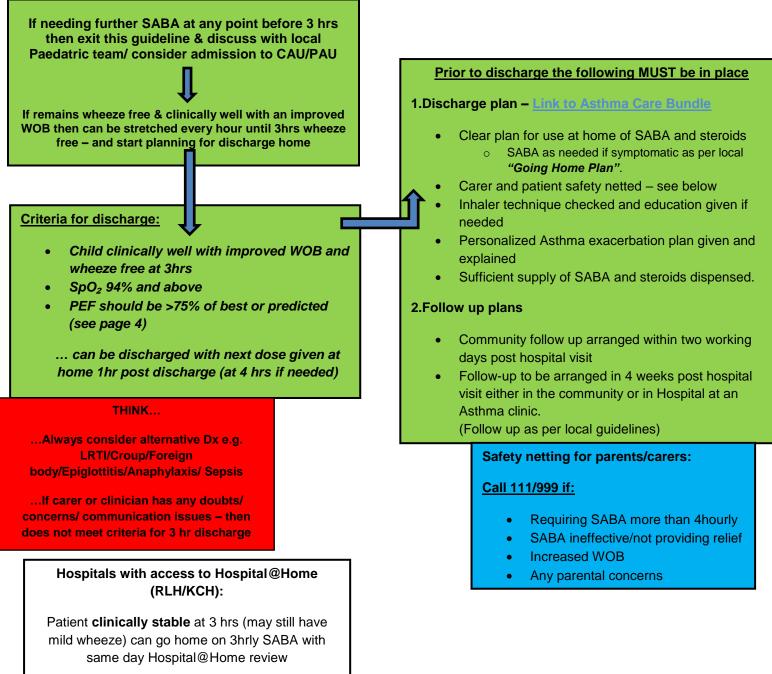
- Able to complete sentences? Audible wheeze? (stridor/ other added sounds) **A**:
- **B**: Respiratory Rate / Saturations / WOB (accessory muscles, nasal flare, tracheal tug, abdominal breathing, tripoding, cough) / Peak Expiratory Flow (PEF) & calculate PEF% compared with predicted/best (nb. only use *PEF for patients with reliable/reproducable technique)*
- C: Heart Rate / BP / Colour / Capillary Refill time (<2s is normal)
- D: Level of consciousness - Normal behaviour? Drowsy? Confused?
- Rashes / Temp E:

### What medication/dose has been administered already? (inhaler? spacer used?) Always consider other Dx e.g. LRTI/Croup/Foreign body/Epiglottitis/Anaphylaxis/ Sepsis

Mild to Moderate Asthma Attack	Severe Asthma Attack	Life-threatening Asthma Attack				
	BTS Assessment of Asthma Attack Severity					
NB. If a patient has signs a	& symptoms across categories, always severe features	s treat according to most				
Alert, active Able to talk in full sentences Drinking fluids RR <30 Requiring 6-10 puffs SABA 4 hrly (SABA = Short Acting Beta Agonist)	Unable to complete sentences in one breath Use of accessory muscles RR: >30/min (5-12 years) >25/min (>12 years) HR: >140/min (5-12 years) >110/min (>12 years)	Poor respiratory effort Drowsiness/exhaustion Confusion Cyanosis/Colour change				
NO FEATURES OF SEVERE/ LIFE- THREATENING ASTHMA ATTACK SpO2 >92% PEF >50% best or predicted	SpO2 <92% PEF 33-50% best or predicted	SpO2 <92% PEF <33% best or predicted				
Initial Treatment:	Treat as not BTC Cuidelings	Tract on our PTC Cuild-lines				
- SABA via spacer - consider nebulised SABA if inhaler not tolerated (within 15 mins of triage)	Treat as per BTS Guidelines EXIT THIS GUIDELINE	Treat as per BTS Guidelines EXIT THIS GUIDELINE				
Further assessment and history for patients and above with MODERATE exacerbation o with no exclusion criteria (see box on r	f Asthma	Exclusion criteria/Red Flags				
istory taking (Full Asthma Hx on Page 3) IPC: duration of symptoms, are symptoms worsening revious help sought, treatment used, is treatment with halers effective, triggers, associated symptoms (fe oryzal, covid symptoms), appetite, fluid intake, active rine output MHx: other conditions, admissions to hospital/ITU, //C IHx: inhaler/SABA use, steroid use, other meds, ep Ilergies: atopy, allergies, anaphylaxis other: what's normal for this child? Level of concern apacity/experience of carer to manage child at hom	ng, /orking/are ver, rash, /ity level, recent ipen, imms //anxiety; //a	uss patient with local Paediatric tean not responding to treatment or if 10 of SABA not effective relief nt on oral maintenance steroids Severe or difficult to treat asthma ous IV therapy nt discharge or interactions with GP 1 ous PICU/PCCU admissions orbidities eg. Previous pneumothora				
Reassess after 30mins of initial treatmen Then review the need for further SABA ho wheeze free & clinically well with an improved WOB Repeat SABA at any time if symptoms ret	nt - If pers treatm urly - Histo then stretch - Signif urn - Comm carers	sonalised asthma plan has alternati				

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# **Detailed Asthma History**

## No Current Dx of Asthma – Is this Asthma?

<ul> <li>One or more of: wheeze, cough, difficulty breathing and chest tightness</li> </ul>	<ul> <li>Frequent and recurrent symptoms - Worse at night and in the early morning</li> </ul>
<ul> <li>✓ Exacerbation of symptoms (post exercise/exposure to pets/cold/damp air/ with emotions/ laughter)</li> </ul>	<ul> <li>Personal history of atopy</li> </ul>
<ul> <li>History of improvement in response to adequate therapy (suggesting reversibility)</li> </ul>	If there are clinical features which do not fit the pattern, consider alternative diagnoses to rule out other serious conditions such as cystic fibrosis etc.

## Previously confirmed Asthma Dx:

~	Last asthma r/v? and care provider?	√	Do they have a written asthma plan?	~	Age at Dx	√ √	PEF diary
×	Current medication: preventer/reliever/ usage/compliance /number of repeat prescriptions ( <i>having</i> > 3 relievers per yr) /spacer/ technique/ are medications in date/ adequate supply/ number of steroids courses over last year/ number of courses of Abx in last year/ Epipen	~ ~	Hx of Recurrent chest infections Pneumonia (Oral Abx courses/Admissions for IV ABx)	~	Identify modifiable risk factors and known triggers?	~	Admissions? Recent attendance at GP/ED/ or admission
~	Missed school days	~	GP/ED attendances in last year	~	Previous for IV therapy	~	PICU admissions

### Full PMHx including:

Antenatal/ BHx/ 1 <sup>sr</sup> year of life	Other comorbidities	Atopy Hx:	DHx:	SHx:
Gestation, ventilated, Hx of CLD, Home O2 GOR / Hx Swallow difficulties/ aspiration Failure to thrive (Plot Wt) Bronchiolitis	Not forgetting - Obesity/ snoring/ sleep apnoea/ nasal polyps	Eczema – well mx/ current flare/ known to dermatologist/ medication Hayfever – well mx/ medication Allergic Rhinitis – well mx/ Medication Food allergies Anaphylaxis Hx Epipen – do they have 2x in date (good knowledge of how to administer?)	Full – including previous Asthma regimes / ?NKDA Imms: UTD FHx: Family Hx of Atopy	Living conditions - Smokers/Pets/sleeps in bunk bed (lower bunk)/carpets Education/Development Known vulnerabilities in this family (SW, CP, CIN, MASH, MARAC) Travel Hx

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Normal Paediatric values (adapted from APLS)					
AGE	RR	HR	SYSTOLIC BP		
<1	30-40	110-160	70-90		
1-2	25-35	100-150	80-95		
2-5	25-30	95-140	80-100		
5-12	20-25	80-120	90-110		
>12	15-20	60-100	100-120		

PEAK EXPIRATORY FLOW RATE								
For use with EU/EN13826 scale PEF meters only								
Height (m)	Height (ft)	Predicted EU PERFR (L/min)	Height (m)	Height (ft)	Predicted EU PERFR (L/min)			
0.85	2'9"	87	1.30	4'3"	212			
0.90	2'11"	95	1.35	4'5"	233			
0.95	3'1"	104	1.40	4'7"	254			
1.00	3'3"	115	1.45	4'9"	276			
1.05	3'5"	127	1.50	4'11"	299			
1.10	3'7"	141	1.55	5'1"	323			
1.15	3'9"	157	1.60	5'3"	346			
1.20	3'11"	174	1.65	5'5"	370			
1.25	4'1"	192	1.70	5'7"	393			