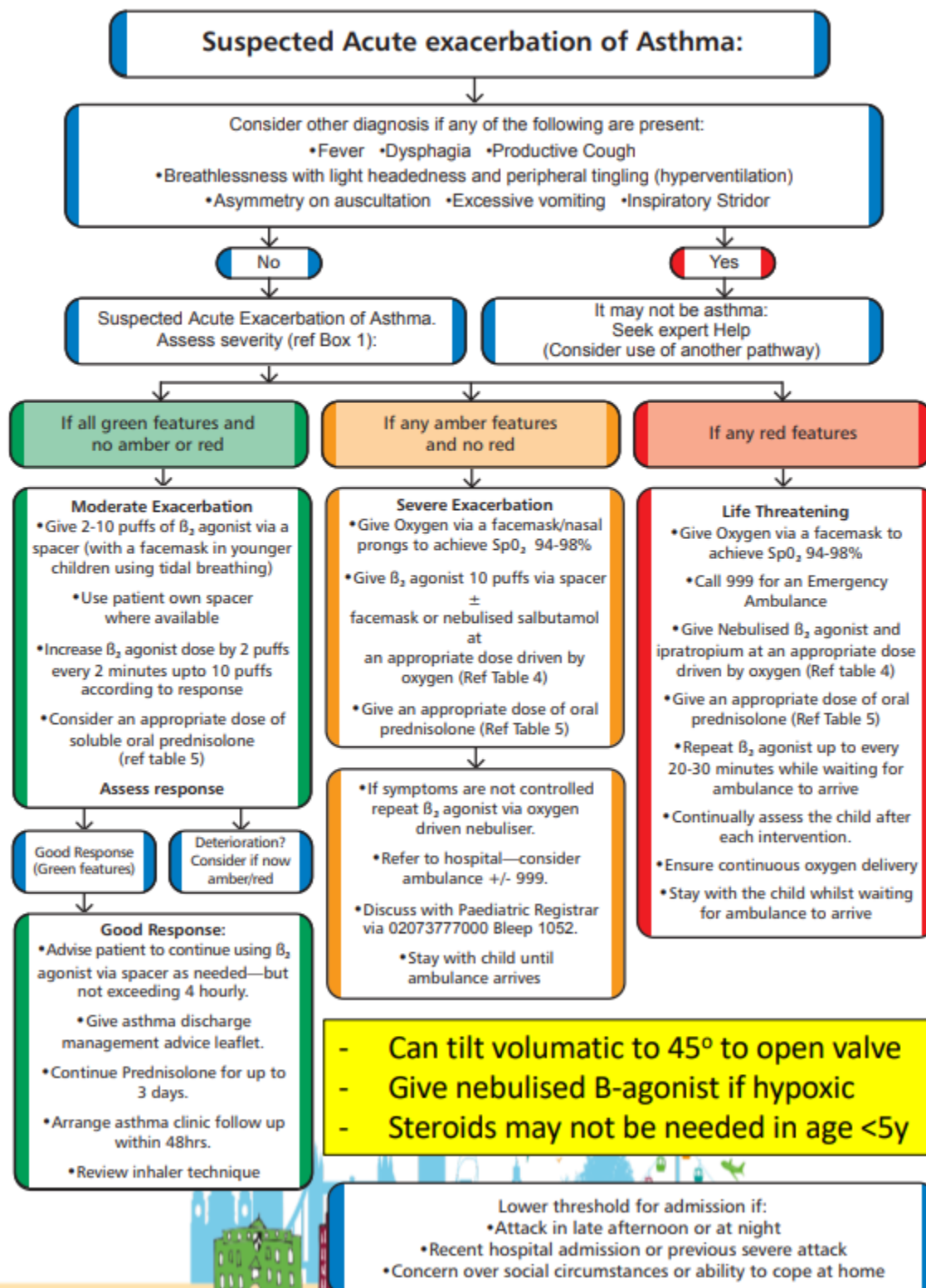


Clinical Assessment Tool for the Child with Acute Exacerbation of asthma 2-16 Years



Management within a Community Setting



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Management within a Community Setting

Table 1: Traffic Light system for identifying signs and symptoms of clinical dehydration and shock

	Green – Moderate	Amber – Severe	Red – Life Threatening
Behaviour*	Normal	Anxious/Agitated	Exhaustion/Confusion
Talking	In sentences	Not able to complete a sentence in one breath	Not able
Respiratory	≤40 breaths/min 2-5 years ≤30 breaths/min 5-12 years <25 breaths/min 12-16 years		Rate >40 Breaths/min 2-5 years Rate >30 Breaths/min >5 years Silent Chest
Heart Rate	Within normal range (Ref to table 2)		>140 beats p/min (2-5 years) >125 beats p/min (>5 years) *Consider influence of fever &/or Salbutamol
SaO ₂	≥92% in air		<92% in air
PEFR	>50% of predicted (Ref to table 3)	33-50% of predicted (Ref to table 3)	<33% of predicted (Ref to table 3)

CRT: capillary refill time RR: respiration rate

Table 2: Normal Paediatric Values:

Respiratory Rate at Rest:	Systolic Blood Pressure
2-5yrs 25-30 breaths/min	2-5yrs 80-100 mmhg
5-12yrs 20-25 breaths/min	5-12yrs 90-110 mmhg
>12yrs 15-20 breaths/min	>12yrs 100-120 mmhg
Heart Rate	
2-5yrs 95-140 bpm	
5-12yrs 80-120 bpm	
>12yrs 60-100 bpm	

Table 4: Guidelines for nebuliser

- Significantly low sats despite inhaler and spacer use
- Oxygen Saturations persistently below 96%
- Requiring oxygen
- Unable to use volumatic/spacer device
- Severe respiratory distress

Salbutamol
2-5 years– 2.5mg, 5-12 years– 2.5-5mg, 12-16 years– 5mg

Ipratropium
under 12 years – 250micrograms,
12-18 years – 500micrograms

Table 3: Predicted Peak Flow: For use with EU / EN13826 scale PEF metres only

Height (m)	Height (ft)	Predicted EU PEFR	Height (m)	Height (ft)	Predicted EU PEFR (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

Table 5: Prednisolone Guideline BNFC 2019

Give **prednisolone** by mouth:
child under 12 years 1–2 mg/kg (max. 40 mg) daily for up to 3 days or longer if necessary, if the child has been taking an oral corticosteroid for more than a few days give prednisolone 2mg/kg (max. 60mg). Child 12-18 years 40-50mg daily for at least 5 days






















BTS guidelines 2019: (if weight not available)
Use a dose of 10 mg prednisolone for children under two years of age, 20 mg for children aged 2–5 years and 30–40 mg for children > 5y

This guidance is written in the following context

This assessment tool was arrived at after careful consideration of the evidence available including but not exclusively use BTS Guidelines and NHS evidence. 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 guardian or carer.

Inhalers

The devices below are those that we recommend for use in paediatrics:

SABA	LAMA/SAMA	ICS	ICS/LABA	ICS/LABA (DPI)
Salamol Evohaler Salbutamol 100µg/puff Age 0+ (usu >1y)  £0.22/30 days (if 1 puff/day)	Spiriva Respimat Tiotropium 2.5µg/puff Age 6+  £23/30 days (if 2 puffs/day)	Clenil Modulite 50 Evohaler Beclomethasone 50µg/puff Age 2+ (occ use <2 years) VLD  £2.22/30 days (if 4 puffs/day)	Seretide 50 Evohaler Salmeterol/ Fluticasone 25/50µg/puff Age 4+ LD  £18/30 days (if 4 puffs/day)	Symbicort 100 Turbohaler Budesonide/ Formoterol 100/6µg/puff Age 6+ (SMART at 12+) LD (VLD at 2 puffs/day)  £28/30 days (if 4 puffs/day)
Ventolin Evohaler Salbutamol 100µg/puff Age 4+ (often <4y)  £0.23/30 days (if 1 puff/day)	Atrovent inhaler Ipratropium 20µg/puff Age 1m+  £0.83/30 days (if 1 puff/day)	Clenil Modulite 100 Evohaler Beclomethasone 100µg/puff Age 2+ (occ use <2 years) LD  £4.45/30 days (if 4 puffs/day)	Combisal 50 Evohaler Salmeterol/ Fluticasone 25/50µg/puff Age 4+ LD  £13.50/30 days (4 puffs/day)	Symbicort 200 Turbohaler Budesonide/ Formoterol 200/6µg/puff Age 12+ MD (LD at 2 puffs/day)  £28/30 days (if 4 puffs/day)
Salamol Easi-breathe Salbutamol 100µg/puff Age 4+ (rarely <12y)  £0.95/30 days (if 1 puff/day)		Clenil Modulite 200 Evohaler Beclomethasone 200µg/puff Age 12+ (occ use < 12 years) MD  £9.70/30 days (if 4 puffs/day)	Seretide 125 Evohaler Salmeterol/ Fluticasone 25/125µg/puff Age 12+ MD  £23.45/30 days (4 puffs/day)	Symbicort 400 Turbohaler Budesonide/ Formoterol 400/12µg/puff Age 12+ MD (LD at 2 puffs/day)  £56/30 days (if 4 puffs/day)
Airomir Autohaler Salbutamol 100µg/puff Age 4+ (rarely <12y)  £0.90/30 days (if 1 puff/day)		Clenil Modulite 250 Evohaler Beclomethasone 250µg/puff Age 12+ (occ use < 12 years) MD  £9.77/30 days (if 4 puffs/day)	Combisal 125 Evohaler Salmeterol/ Fluticasone 25/50µg/puff Age 12+ MD  £17.59/30 days (4 puffs/day)	Relvar Ellipta 92 Fluticasone/ Vilanterol 92/22mcg/puff Age 12+ MD  £22/30 days (if 1 puff/day)
This list is not exhaustive (e.g. Soprobeq) Generic prescribing is avoided due to: - differing activity of formulations such (e.g. Qvar) - Unlicensed formulations (e.g. Sirdupla)			Seretide 250 Evohaler Salmeterol/ Fluticasone 25/250µg/puff Age 12+ MD  £29.32/30 days (4 puffs/day)	Relvar Ellipta 184 Fluticasone/ Vilanterol 184/22mcg/puff Age 12+ MD  £29.50/30 days (1 puff/day)
VLD = Very Low Dose inhaled steroid at suggested dose/age LD = Low Dose inhaled steroid at suggested dose/age MD = Medium Dose inhaled steroid at suggested dose/age HD = High Dose inhaled steroid at suggested dose/age		Pricing is representative and assumes dosing as on bottom line of each cell and is correct at time of going to print.	Combisal 250 Evohaler Salmeterol/ Fluticasone 25/50µg/puff Age 12+ MD  £27.99/30 days (4 puffs/day)	References: 1) www.rightbreathe.com 2) www.bnfc.nice.org.uk

Barts Health NHS Trust and Tower Hamlets Together are committed to sustainability in healthcare. As part of this commitment we encourage recycling of inhaler devices.



Information can be found at:
www.completecycle.eu

