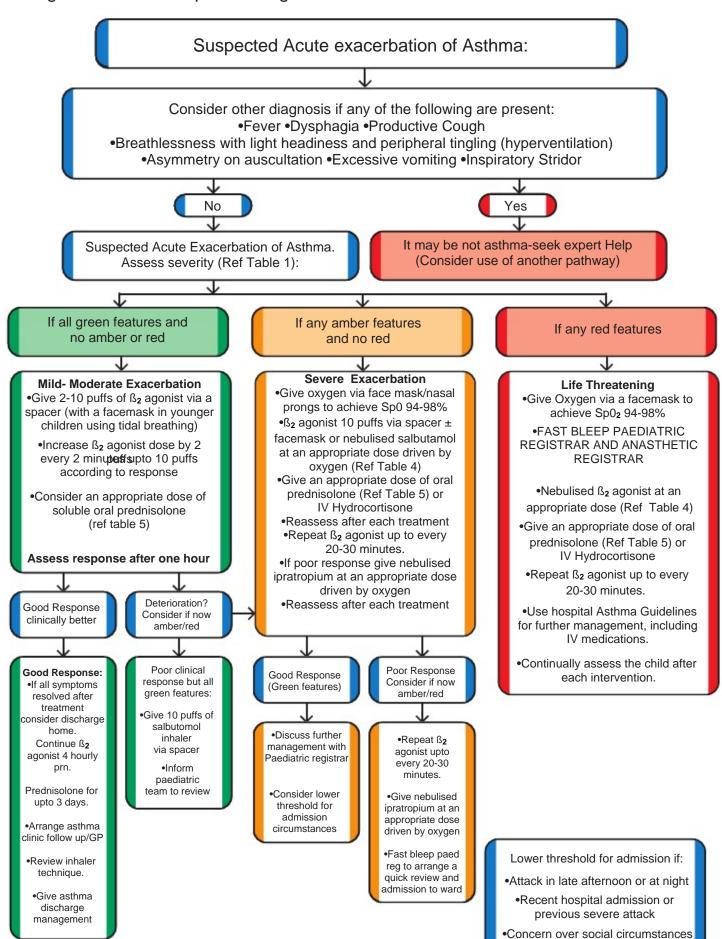
## Clinical Assessment Tool for the Child with Acute Exacerbation of asthma 2-16 Years



Management within Hospital Setting



or ability to cope at home

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



#### Management within Hospital Setting

Table 1: Traffic Light system for identifying severity of Acute Exacerbation of Asthma

	Green – Mild / Moderate	Amber – Severe	Red – Life Threatening	
Talking	In sentences	Not able to complete a sentence in one breath	Not able to talk	
Auscultation	Fair air entry, moderate wheeze	Decreased air entry with marked wheeze	Silent Chest	
Respiratory Rate	Within normal range (Ref to Table 2)	>40 Breaths/min (2-5 years) >30 Breaths/min (>5 years)	Poor respiratory effort	
Heart Rate	Within normal range (Ref to Table 2)	>140 beats p/min (2-5 years) >125 beats p/min (>5 years)	Extreme tachycardia/bradycardia or arrhythmias	
Sa02	>92% in air	<92% in air +/- cyanosis		
PEFR (if possible	) >50% of predicted	33-50% of predicted	<33% of predicted	

#### **Table 2: Normal Paediatric Values:**

### Respiratory Rate at Rest: 2-5yrs 25-30 breaths/min

2-5yrs 25-30 breaths/min 5-12yrs 20-25 breaths/min >12yrs 15-20 breaths/min

#### **Heart Rate**

2-5yrs 95-140 bpm 5-12yrs 80-120 bpm >12yrs 60-100 bpm

#### **Systolic Blood Pressure**

2-5yrs 80-100 mmhg 5-12yrs 90-110 mmhg >12yrs 100-120 mmhg

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

Height (m)	Height (ft)	Predicted EU PEFR	HICIAHL	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 4: Guidelines for nebuliser

- Significantly low sats despite inhaler and spacer use
- Oxygen Saturations persistently below 92%
- Requiring oxygen
- Unable to use volumatic/spacer device
- Severe respiratory dmistress

#### Table 5: Prednisolone Guideline BNF2013-2014

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). Child12-18 years 40-50mg daily for at least 5 days.

#### 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.