



Acute Asthma Pathway

Suspected acute asthma

Progressive worsening of asthma symptoms

- Breathlessness
- Wheeze
- Cough
- Chest tightness

Risk factors for severe disease

- Extremely low birth weight
- Prolonged NICU stay
- Congenital heart disease
- Previous severe attacks
- Attack in late afternoon, at night or early morning
- Representation within 1 month of acute episode
- Already on steroids or high doses ICS
- Food allergy
- Psychosocial stressors

Do the symptoms and/or signs suggest an **immediately life threatening (high risk) illness?**

Consider differentials;

- Pneumonia
- Epiglottitis
- Croup
- Hyperventilation
- Foreign body
- GORD
- Anaphylaxis

	Green – Low Risk	Amber – Intermediate Risk	Red – High Risk
Activity	<ul style="list-style-type: none"> Responds normally to social cues Content/smiles Stays awake/awakens quickly Strong normal cry 	<ul style="list-style-type: none"> Altered response to social cues No smile Reduced activity 	<ul style="list-style-type: none"> Not responding normally or no response to social cues Unable to rouse or if roused does not stay awake Weak, high pitched or continuous cry Appears ill
Skin	<ul style="list-style-type: none"> Normal skin colour CRT <2 secs 	<ul style="list-style-type: none"> Normal skin colour Pallor reported by parent/carer Cool peripheries 	<ul style="list-style-type: none"> Pale, mottled, ashen Cold extremities CRT >3 secs
Respiratory	<ul style="list-style-type: none"> No respiratory distress 1-5y: <40bpm >5y: ≤ 30bpm O2 sats: ≥ 95% No chest recessions No nasal flaring 	<ul style="list-style-type: none"> Tachypnoea Moderate recessions May have nasal flaring 1-5y: 40-60bpm >5y: > 30bpm O2 Sats: 92-94% 	<ul style="list-style-type: none"> Significant respiratory distress Grunting Apnoeas Severe recessions Nasal flaring All ages: >60bpm O2 Sats: ≤ 92%
PEFR	>50% best or predicted	33-50% best or predicted	<33% best or predicted
Auscultation	<ul style="list-style-type: none"> Good air entry Mild-moderate wheeze 	<ul style="list-style-type: none"> Decreased air entry with marked wheeze 	<ul style="list-style-type: none"> Silent chest
Circulation	<ul style="list-style-type: none"> Tolerating 75% of fluid Occasional cough induced vomiting Moist mucous membranes 	<ul style="list-style-type: none"> 50-75% fluid intake over 3-4 feeds Cough induced vomiting Reduced urine output 	<ul style="list-style-type: none"> 50% or less fluid intake over 2-3 feeds Cough induced vomiting frequently Significantly reduced urine output
	MODERATE	SEVERE/LIFE THREATENING	

Acute Asthma Drug Dose		
Prednisolone (oral) 3 days	<2y: 10mg 2-5y: 20mg 5-7y: 30-40mg	>7y: 40mg (1-2mg/kg per dose)
Salbutamol (nebs)	2-5y: 2.5mg >5y: 5mg	
Ipratropium Bromide (nebs)	2-11y: 250 micrograms 12-17y: 500 micrograms	

- Give 2-10 puffs of salbutamol via spacer with facemask
- Keep in waiting room for 30 mins
- Consider prednisolone 1-2mg/kg once daily for 3 days

- ### RED ACTION
- Refer immediately to emergency care or paediatric unit – consider 999
 - High flow oxygen via face mask to achieve SpO2 >94%
 - Give 10 puffs of salbutamol via face mask or via O2-driver nebuliser
 - If poor response add nebulised ipratropium bromide
 - Continue with further doses of bronchodilator while awaiting transfer

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- Provide PAAP
 - Check inhaler technique
 - Continue 2-4 puffs every 4h for 24h
 - Review in 2 weeks
 - Review progress in 48h
 - Asthma review within 2 weeks

Improved ↓ Not improved →

Same day review

AND