

# Acute asthma

Version 72

Use in all adult patients with clinical features strongly suggesting an acute attack

NB: Asthma patients may present with DiB due to other causes e.g. PE; beware of labeling symptoms as 'asthma' in the absence of wheeze/bronchoconstriction

Disclaimer: This is a clinical template; clinicians should always use judgment when managing individual patients

Re-approved by ED guidelines committee on 03/Jul/24  
Review due Jul27 - Trust Ref C76/2016

## Patient details

Full name

DoB

Unit number

(use sticker if available)

### 1 Life-threatening features?

**YES** – as at least one of the below

SpO<sub>2</sub> <92% even with supplemental O<sub>2</sub>

Silent chest

Cyanosis

Arrhythmia

Hypotension

Poor respiratory effort

Exhaustion

Altered consciousness

PEF < 33% of best or predicted

ABG features (if also any of the above)

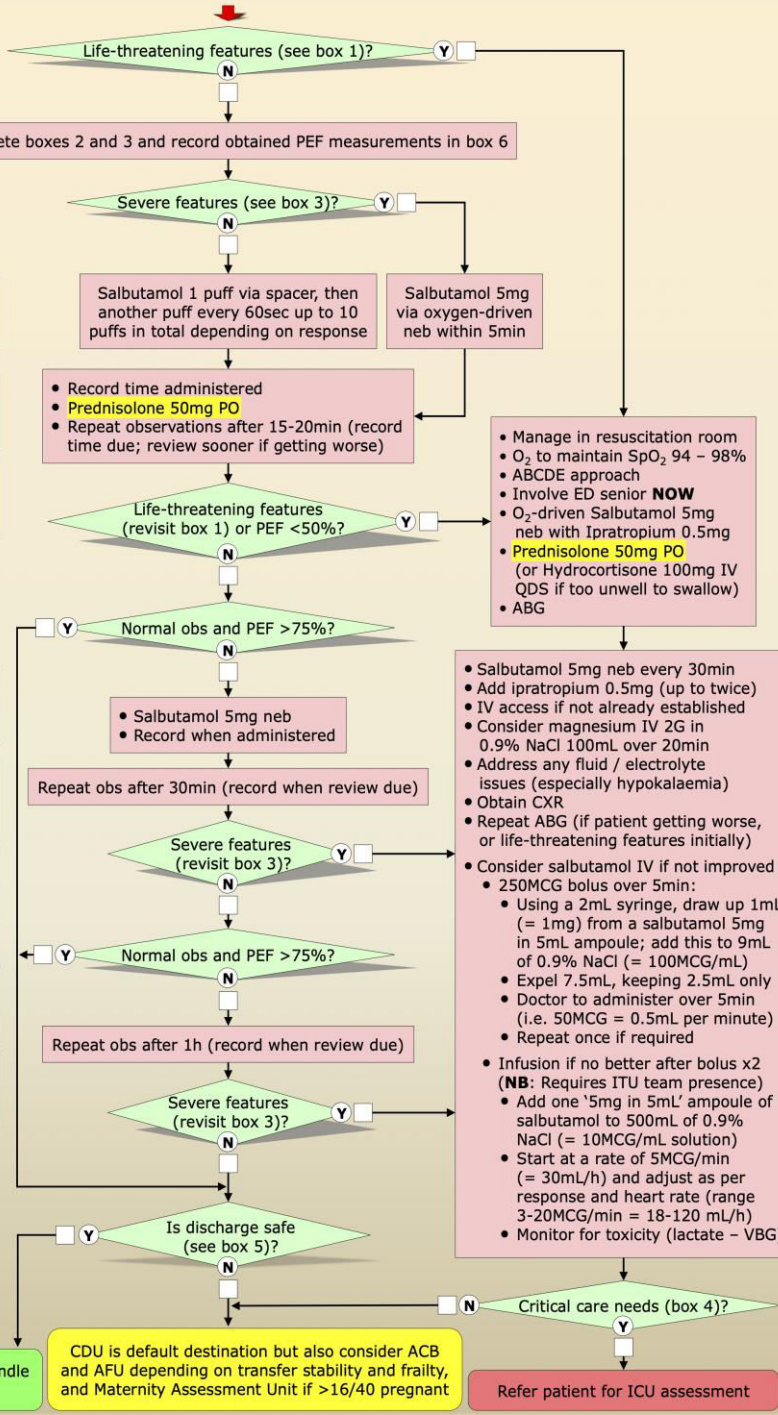
PaO<sub>2</sub> <8 kPa

'Normal' PaCO<sub>2</sub> (4.6–6.0 kPa)

**NONE** at presentation

**NONE** at 1<sup>st</sup> review

To prescribe in NC Meds, go to Emergency Medicine (ED) > Common scenarios (ED) > Asthma & COPD



### 2 Peak expiratory flow (PEF)

If personal best PEF unknown

- Record relevant variables below
- Use [MD calc online calculator](#) to obtain predicted PEF and % best of ED readings

Sex:  M  F

Age:

Height:  cm  inches

personal best  predicted

### 3 Severe features?

**YES** – at least one at presentation

**YES** – at least one at 2<sup>nd</sup> or 3<sup>rd</sup> review

Respiratory rate ≥25/min

Heart rate ≥110/min

Cannot complete sentences in 1 breath

PEF 33-50% of best or predicted

**NONE** on arrival

**NONE** at 2<sup>nd</sup> review

**NONE** at 3<sup>rd</sup> review

### 4 Critical care needs?

**YES** – as at least one of the below

Mechanical ventilation instituted in ED

Deteriorating PEF

Persisting or worsening hypoxia

Hypercapnia on repeat ABG

Exhaustion / altered consciousness

Poor respiratory effort

Respiratory arrest

**NO** – as none of the above

### 5 Will discharge be safe?

**NO** – as at least one of the below

Observations still abnormal

Significant remaining symptoms

Concerns about adherence

Living alone / socially isolated

Psychological problems

Physical disability

Learning difficulties

Previous near-fatal asthma attack

Asthma attack despite adequate dose steroid tablets prior to presentation

Presentation at night

Pregnancy

**YES** – as none of the above

Assessed by

Print name      Signature      Role      Date      Time

## ⑥ Peak expiratory flow (PEF) measurements L/min; always record 3 attempts

Time <small>use 24h clock</small>	example	HH:MM	HH:MM	HH:MM	HH:MM	HH:MM
PEF	1.	350				
	2.	370				
	3.	380				
% of <input type="checkbox"/> <input type="checkbox"/> personal best predicted enter best of the three attempts into <a href="#">MDcalc</a> or use the formula below: the formula below:  100 multiplied by [best attempt] divided by [best or predicted]	e.g. if PEF predicted to be 603:  $100 \times 380 / 603$ =  63					

## ⑦ Discharge care bundle

### Prescribe

- TTO prednisolone
- If using TrustMed pharmacy, use the following phrase when completing the white TTO script: 'Prednisolone 5mg tablets (supply 3x28 tablets)'; take EIGHT tablets (40mg) ONCE daily until recovery but for a minimum of 5 days'
  - If dispensing TTO pre-packs from ED (e.g. overnight), use the phrase 'Prednisolone 40mg (supply 2 pre-packs of 40x 5mg tablets)'. On the pre-pack label, add the missing words shown in **BOLD** below so the sentence reads 'take EIGHT tablets every MORNING **until recovery but for at least 5 days**' as shown below

Packed by King's Mill Hospital Notts  
Licence No. MS 27699

### 40 PREDNISOLONE 5mg TABLETS

Take EIGHT tablets every MORNING **until recovery but for at least 5 days.**

Take with or just after food, or a meal.

Warning: Read the additional information given with this medicine.  
Take any unused tablets to your local pharmacy for safe disposal.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**KEEP OUT OF REACH AND SIGHT OF CHILDREN**

University Hospitals of Leicester NHS Trust

Batch Number: K2304719  
Expiry Date: 30/09/2026

- Supply of inhaled steroid &  $\beta_2$  agonist (prescribe patient's regular medicines if run out **OR** appropriate new medicines as per [LLR guideline](#); **NB**: we stock Qvar 50 MDI TTO pre-packs in our ED) **OR** tick here  if enough supply at home
- Spacer **OR** tick here  if patient already has a spacer

### Provide

- The peak flow meter they were given to use in ED
- GP letter (print from NerveCentre)
- From on-demand print menu 'Majors - other'*
- [PAAP](#) - personal asthma action plan **OR** tick here  if patient already has a PAAP (leave blank; to be completed by patient's primary care team)
- [PEF diary](#) - patient should record 'Best of 3' PEF twice daily
- '[Asthma flare up](#)' - PIL



### Advise

- Check pt has correct inhaler technique - video demos available by following the **QR code** or <http://bit.ly/inhalerdemo>
- Ask patient to try and get a GP appointment within 2 working days, remembering to take the blank PAAP with them
- Advise them to book an appointment with their practice nurse asthma clinic one month after their attendance
- Advise patient to return to ED if worsening symptoms not controlled despite 10 puffs of salbutamol 4-hourly
- Stress that they need to be aware of their own best PEF
- Advise smoking cessation and offer referral to a Stop Smoking Service **OR** tick here  if patient is a non-smoker
- NB**: See ED [NRT prescribing plus quitting advice](#) for information on how to refer - go to print menu 'Majors - other'