

Adult (≥ 18 years) Asthma Quick Reference Guide (Update Nov 2017)

Key Points:

- Advise patients with asthma to stop smoking – refer to local Stop Smoking Service for advice and support.
- Start treatment at the step most appropriate to initial severity of their asthma.
- Patients should receive training from a healthcare professional for each device prescribed, and be able to demonstrate satisfactory technique.¹
- Check concordance and reconsider diagnosis if response to treatment is unexpectedly poor.¹
- Explain to the patient the warning signs of poor asthma control and what to do during an attack.²
- Offer annual influenza vaccination to all patients with asthma that require continuous or repeated use of **inhaled or systemic** steroids or with previous exacerbations requiring hospital admission.
- Offer a one-off pneumococcal vaccination to patients who require continuous (> 1 month) use of **oral** corticosteroids (i.e. at a dose equivalent to ≥ 20 mg prednisolone daily).³
- Every patient must have a personal asthma action plan (PAAP).²
- Perform an asthma review **at least** annually (see indicators associated with increased risk of death overleaf).
Note - those with seasonal asthma should be reviewed **at least one month before** their exacerbating season.
- Treat associated rhinitis with intranasal steroids.
- Consider a spacer device for patients prescribed a metered dose inhaler (MDI) who are:
 - Having difficulty co-ordinating actuation and inhalation.
 - Receiving high doses of inhaled corticosteroid (ICS) (>800 mcg of beclometasone or equivalent daily).³

ONLY USE A LABA IN COMBINATION WITH AN ICS.

*****1st choice inhaler for each step is listed above - see Page 2 for alternative inhalers*****

Stepping Up?

Think C.T.T.

- Compliance
- Technique
- Trigger factors

Step 1 - Inhaled SABA prn
(Salbutamol MDI 100mcg 1-2 puffs PRN)
Can decrease dose if controlled

Step 2 - Add in regular ICS
(Clenil 100mcg (MDI) 2 puffs BD)
Can decrease dose if controlled

Step 3 - Initial
Replace with LABA/ICS combination]
(Fostair 100/6 (MDI) 1 puff BD)

Step 3 – Follow on
Benefit from LABA/ICS but inadequate response, increase ICS dose in combination inhaler
(Fostair 100/6 (MDI) 2 puffs BD)

If absolutely no response to LABA/ICS, review diagnosis.
Consider stopping combination device and starting regular ICS
(Qvar MDI 100mcg 2 puffs BD)
If asthma still not controlled add either a leukotriene receptor antagonist (LTRA) or theophylline

Step 4 - Consider trial of:

- Increasing ICS dose up to BDP 2000mcg/day – see table overleaf for ICS/LABA combination inhaler options
- Or addition of either a Leukotriene Receptor Antagonists or theophylline (check levels where appropriate)

If trial of an add-on treatment is ineffective after 4 weeks, **seek specialist advice.**

Step 5 - Refer to respiratory specialist

Refer patient to specialist if they have required > 2 courses of oral/iv corticosteroids in past 12 months

Regular TWICE daily dosing with additional WHEN REQUIRED dosing

Initiated by an asthma nurse specialist or hospital specialist.

- Consider for patients on step 3 receiving frequent courses of oral steroids
- **Caution** – needs education and closer monitoring and of patient/prescriptions
- Use **Fostair 100/6 (MDI)** or **DuoResp Spiromax DPI 160/4.5**

Stepping Down?

- Reduce ICS dose slowly
- Aim to use the lowest effective ICS dose
- Consider every 12 weeks

	Step 1	Step 2	Step 3 -initial	Step 3 – follow on		Step 4 Tailor therapy to patient/preferred device	Step 5
				LABA/ICS benefit but inadequate response	LABA/ICS no benefit		
1 st choice	Salbutamol MDI 100mcg (£2.85) 1-2 puffs prn	Clenil 100mcg (MDI) (£4.15) 2 puffs BD	Fostair 100/6mcg (MDI) (£13.00) 1 puff BD	Fostair 100/6mcg (MDI) (£27.36) 2 puffs BD	Qvar 100mcg (MDI) (£9.63) 2 puffs BD	Listed in order of cost: Sereflo 250/25mcg (MDI) (£29.95) 2 puffs BD Aerivio Spiromax 50/500mcg (DPI) (£29.97) 1 puff BD Flutiform 250/10mcg (MDI) (£45.56) 2 puffs BD If treatment ineffective after 4 weeks, seek specialist advice.	Refer to specialist
	Spacer	Volumatic or Aerochamber Plus	Aerochamber Plus	Aerochamber Plus	Aerochamber Plus		
2 nd choice	Easyhaler Salbutamol 100mcg (DPI) (£3.31) 1-2 puffs prn	Qvar 50mcg (MDI) (£4.40) 2 puffs BD	Flutiform 50/5mcg (MDI) (£13.44) 2 puffs BD	Flutiform 125/5mcg (MDI) (£26.13) 2 puffs BD	Qvar Autohaler 100mcg (BAA) (£9.63) 2 puffs BD		
	Spacer	Not appropriate	Aerochamber Plus	Aerochamber Plus	Not appropriate		
3 rd choice	Only if salbutamol not suitable: Terbutaline Turbohaler (Bricanyl) 500mcg (DPI) (£6.92) 1 puff prn	Only if beclometasone not suitable: Easyhaler Budesonide 100mcg (DPI) (£4.96) 2 puffs BD	Only If breathe actuated device required: DuoResp Spiromax 160/4.5 (DPI) (£13.98) 1 puff BD	Only If breathe actuated device required: DuoResp Spiromax160/4.5 (DPI) (£27.97) 2 puffs BD	Only if beclometasone not suitable: Easyhaler Budesonide 200mcg (DPI) (£9.91) 2 puffs BD		
	Spacer	Not appropriate	Not appropriate	Not appropriate	Not appropriate		

Key

MDI: Metered dose inhaler
DPI: Dry powder inhaler
BAA: Breathe actuated aerosol
ICS: Inhaled corticosteroid
SABA: Short acting β_2 agonist
LABA: Long acting β_2 agonist

Colour coded costs

Cost brackets for 28 days of regular treatment at specified dose. PRN doses are priced per device.

£0 - £4.99
£5 - £14.99
£15 -£24.99
£25 - £34.99
£35-£45

Complete control of asthma: the 6 measures¹

1. No daytime symptoms
2. No night-time awaking due to asthma
3. No need for rescue medication
4. No exacerbations
5. No limitation on activity including exercise
6. Normal lung function (FEV1 and/or PEF>80% predicted or best)

With minimal side-effects

Criteria for specialist referral in adults¹

- Prominent systemic features (myalgia, fever, weight loss)
- Unexplained restrictive spirometry
- Suspected occupational asthma
- Monophonic wheeze or stridor
- Chronic sputum production
- CXR shadowing
- Unexpected clinical findings (ie crackles, clubbing, cyanosis)
- Persistent non-variable breathlessness
- Poor response to asthma treatment/uncontrolled at step 4
- Marked blood eosinophilia (>1 x 10⁹/l)
- Severe asthma exacerbation
- Diagnosis unclear

Indicators associated with increased risk of death²

- Recent hospitalisation
- Previous severe attacks
- Non-attenders for planned review
- Co-morbidity
- LABA without ICS
- > 12 SABA/yr
- < 4 ICS/yr

Produced by the Medicines Management team, C&P CCG September 2014, updated November 2015 (minor update November 2017)
With acknowledgment to, Ipswich and East Suffolk CCG Prices based on eMIMs price at time of publication but may be subject to change.

References:

1. British Thoracic Society and Scottish Intercollegiate Guidelines Network (SIGN). British Guideline on the Management of Asthma. October 2014
2. Royal College of Physicians. Why asthma still kills: the National Review of Asthma Deaths (NRAD) Confidential Enquiry report. London: RCP, 2014. Accessed via <http://www.rcplondon.ac.uk>
3. Department of Health. The Green Book - Immunisation against infectious disease. Last updated March 2014.
4. National Institute for Health and Clinical Excellence (NICE). Clinical Knowledge Summaries (CKS) – Asthma. Last updated Dec 2013. Accessed via <http://cks.nice.org.uk>