

# South East London integrated guideline for the management of asthma in adults (18 years old and over)

## Assessment

- Always **consider alternative explanations** for uncontrolled asthma before adjusting therapy:
- poor inhaler technique/adherence
  - alternative diagnoses
  - smoking (active or passive)
  - seasonal or environmental factors
  - occupational exposures
  - psychosocial factors

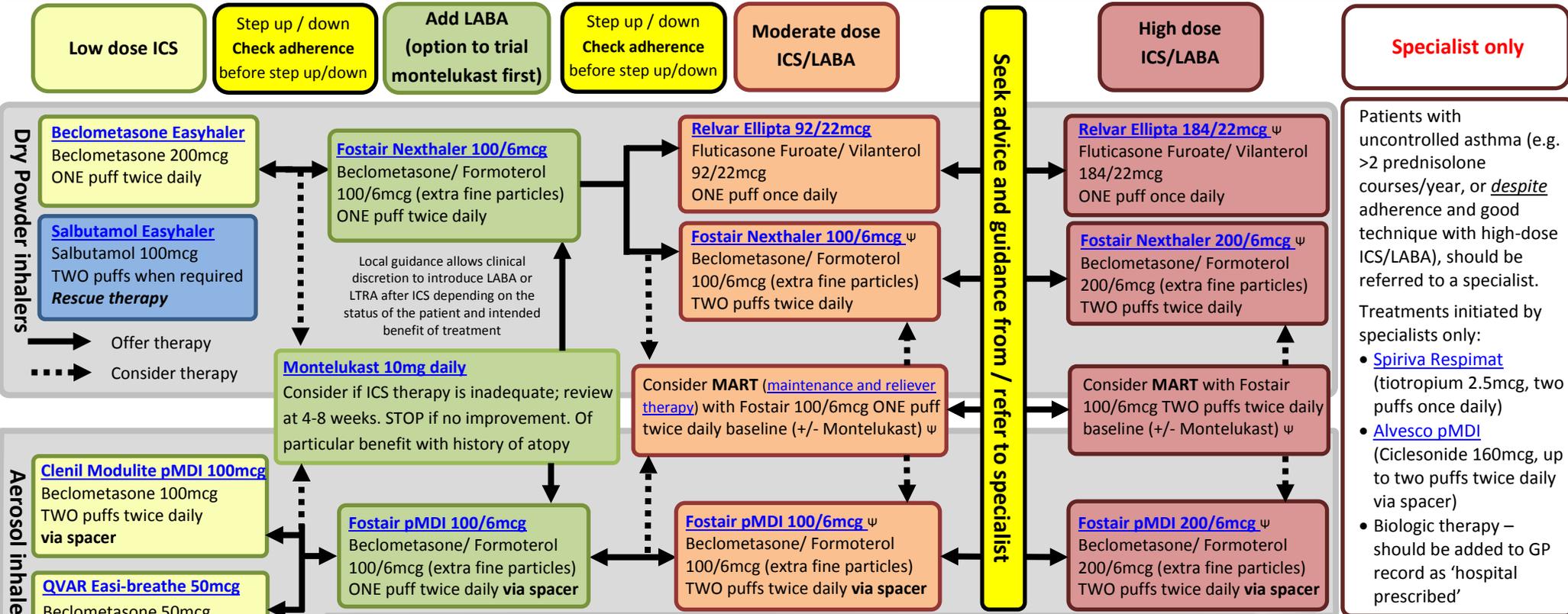
## Assess asthma control objectively using:

- A **validated questionnaire (CKS)** e.g. the RCP 3 questions "In the last month...:
- Have you had difficulty sleeping because of your asthma symptoms (including cough)?
  - Have you had your usual asthma symptoms during the day (cough, wheeze, chest tightness, or breathlessness)?
  - Has your asthma interfered with your usual activities (e.g. housework, work)?
- Lung function:** [quality assured spirometry](#), PEFR (% best, variability), FeNO
- Use of **rescue therapies:** salbutamol inhalers (>6 prescriptions/year or >1 inhaler /month) or >2 courses of prednisolone /year need an urgent review

## Smoking cessation

- Treating tobacco dependence is an essential clinical intervention.
- Very brief advice** should be provided at every opportunity. [Training](#) and [tools](#) are available online <https://london.stopsmokingportal.com/>
  - Expired carbon monoxide monitoring** is a NICE recommended tool to use as part of a structured review to support people to stop smoking and initiate treatment
  - Drug therapy together with psychological support increases likelihood of a successful quit. Quit smoking therapies (including [varenicline](#)) are safe and effective and should be equally offered to patients with mental illness, regardless of severity. Monitor in mental health. [Nicotine Replacement Therapy](#) with appropriate support via general practice or community pharmacy is an effective intervention, or **refer to your local smoking cessation service**
  - Other resources: [how and why to record tobacco dependence as a cause of death](#)

## A regular inhaled corticosteroid (ICS) must be used by ALL patients with confirmed asthma



**Dry Powder Inhalers**

Offer therapy (solid arrow)  
Consider therapy (dashed arrow)

**Aerosol inhalers**

Offer therapy (solid arrow)  
Consider therapy (dashed arrow)

- ✓ **Prescribe by brand** with the device specified (e.g. Fostair Nexthaler instead of beclometasone/formoterol)
- ✓ Choose inhaler type (aerosol / dry powder) based on **patient preference & ability**. Where possible give only one type
- ✓ Extra fine particles deliver approximately twice the effective dose as standard inhalers
- ✓ Use **spacers** with pressurised Metered Dose Inhalers (pMDI)
- ✓ Only **change an inhaler with agreement of the patient**
- ✓ Issue a written **personalised action plan**. [Examples from Asthma UK](#)
- ✓ **ICS cards** are indicated for patients prescribed **>1000mcg beclometasone dipropionate or equivalent** (marked by Ψ)
- ✓ Check technique and assess adherence at every opportunity
- ✓ Refer to community pharmacists for [Medicines Use Review](#) + [New Medicines Service](#)

Use [RightBreathe](#) for inhaler prescribing info, to demonstrate inhaler technique. Encourage patients to download app for videos & supporting information

# This management guideline aims to support responsible respiratory prescribing

## Good respiratory practice

- ✓ Patients should demonstrate how they use their inhaler at every opportunity, then be coached to improve or an alternative tried
- ✓ Refer patients to Community Pharmacist for [Medicines Use Review](#) + [New Medicines Service](#) to reinforce inhaler technique & to support adherence
- ✓ To avoid confusion inhalers should be **prescribed by brand** with the device specified
- ✓ Choose inhaler type (aerosol or dry powder) based on **patient preference & capability**. Where possible give only one type. Consider use of [In-Check device](#)
- ✓ Prescribe & encourage use of **spacer** with pressurised Metered Dose Inhalers
- ✓ Only **change an inhaler with agreement of the patient**. Blanket 'switching' may lead to a deterioration & anxiety for patient
- ✓ All patients should have a written **personalised action plan** that is reviewed regularly
- ✓ [ICS cards](#) are indicated for patients prescribed >1000mcg beclometasone dipropionate or equivalent (annotated above with the symbol Ψ). [Order cards here](#)
- ✓ Inhaled corticosteroids should be prescribed for all patients with confirmed asthma
- ✓ Avoid live vaccines for patients receiving biologic therapy

## Asthma UK resources

- ✓ Patient support tool from Asthma UK: [Asthma risk checker for patients](#)
- ✓ [Asthma UK perspective](#) on National Review of Asthma Deaths

## Assessing adherence

- ✓ High use of SABA inhalers (>12 inhalers/year) is associated with **increased risk of asthma death**, particularly when adherence to ICS is low ([National Review of Asthma Deaths](#))
- ✓ Assess SABA:ICS ratio. If ratio 1:4 or more, reinforce regular use of ICS, and use of SABA as a reliever / rescue therapy only
- ✓ Where ICS is being 'overused' (>12/year), review management of patient. Does the patient need a higher dose / strength of ICS?

## Stepping up and stepping down treatment

- ✓ Safe & effective management of asthma involves titrating therapy up & down according to individual need
- ✓ Update the patient's written asthma action plan
- ✓ After adjusting medicines, review the patient's response in 4-8 weeks
- ✓ Do not step down more frequently than 6-monthly
- ✓ Patients using high-dose ICS with no prednisolone 'rescue' prescribing history in past 12 months should be reviewed for step-down

## Treatment options – montelukast and MART ( •••••► )

- ✓ Montelukast is effective in about 20% of patients (those with a history of atopy). This can be considered when stepping up from initial inhaled corticosteroid (ICS)
- ✓ MART can be considered instead of regular moderate / high-dose ICS. Patient education and understanding is important. Specialist input may be helpful

## Inhaler Technique

There are several common steps to all inhaler devices, but always ensure you are confident and competent to teach the devices you prescribe:

1. Prepare inhaler device – e.g. remove cap
2. Prepare ("load") dose – e.g. shake inhaler, insert and pierce capsule or "click" the dose lever
3. Breathe out (not into inhaler) as far as is comfortable
4. Put lips around mouthpiece
5. Breathe in correctly. This is the commonest error, but simply determined by the device *type*. All inhalers are either an **aerosol** or a **dry powder** (see pictures opposite)
6. Remove inhaler from mouth and hold breath for 5-10 seconds or as long as is comfortable, then breathe out
7. Repeat as directed and finish

Adapted with permission from: <http://www.simplestepseducation.co.uk/>

## Dry Powder devices

*'Quick and deep' inspiration*

### Easyhaler



### Ellipta



### Nexthaler



**Note: inhaler device colour will vary depending on strength and formulation**

## Aerosol devices (including pMDI)

*'Slow and steady' inspiration*

### pMDI



### Respimat



### Easi-breathe



### Aerochamber plus

