LLR Adult Asthma Guideline (≥18 years)

This guideline is for adults with a confirmed diagnosis of asthma. If asthma is suspected, use the Asthma Diagnosis algorithm available on PRISM. There are **2 options** for treatment once asthma is diagnosed: (1) the **flexible regimen**, derived from evidence-based recommendations from GINA 2023 (Global Strategy for Asthma Management and Prevention) and is the preferred LLR pathway or (2) the traditional regimen which involves separate relievers and preventers as per BTS/SIGN and NICE asthma guidelines

	Very few patients will have mild asthma symptoms. Start here only if: ASTHMA SYMPTOMS LESS THAN TWICE A MONTH		majo	START HERE: Low dose ICS and reliever for majority of patients ASTHMA SYMPTOMS ≥ TWICE A MONTH		Medium dose ICS/LABA combination THEN Consider adding Montelukast 10mg nocte, +/- Spiriva 2.5mcg Respimat 2 doses OD		SEVERE ASTHMA (see notes) REFER TO SECONDARY CARE	
	ICS/LABA AS NEEDED (ANTI- INFLAMMATORY RELIEVER [AIR])		ICS/LABA MAINTENANCE & RELIEVER THERAPY (MART)		MAINTENANCE & RELIEVER THERAPY (MART)		HIGH dose ICS/LABA combination		
FLEXIBLE REGIMEN	Dry powder Inhaler (DPI) First Line Aerosol If DPI not suitable	Fobumix 160/4.5 Easyhaler 1 dose PRN or Fostair 100/6 NEXThaler 1 dose PRN or Symbicort 200/6 Turbohaler 1 dose PRN Luforbec 100/6 MDI 1 dose PRN via EasyChamber spacer	powder 1 dose BD plus 1 dose PRN Inhaler Fostair 100/6 NEXThaler (DPI) 1 dose BD and 1 dose PRN or First Line Symbicort 200/6 Turbohaler 1 dose BD plus 1 dose PRN Aerosol Luforbec 100/6 MDI		Dry powder Inhaler (DPI) First Line Aerosol If DPI not suitable	Fobumix 160/4.5 Easyhaler 2 doses BD plus 1 dose PRN or Fostair 100/6 NEXThaler 2 doses BD and 1 dose PRN or Symbicort 200/6 Turbohaler 2 doses BD plus 1 dose PRN Luforbec 100/6 MDI 2 doses BD plus 1 dose PRN via EasyChamber spacer	Dry powo Inhal (DPI) First L	er Fostair 200/6 NEXThaler 2 doses BD or Symbicort 400/12 Turbohaler* 2 doses BD plus Easyhaler Salbutamol 100 1-2 doses PRN	
F	NB: ICS/formoterol as a reliever alone (without maintenance ICS/formoterol) is licensed only for Symbicort Turbohaler, but off-licence use for Fobumix Easyhaler, Fostair NEXThaler/ MDI and Luforbec MDI endorsed by RPG #		Fostair / Luforbec is licensed for maximum 8 doses/24 hours. Fobumix/Symbicort > 8 doses/24 hours is not normally needed; however up to 12 doses could be u for a limited period. If patients use > 8 doses daily it is strongly recommended they seek medical advice. No more than 6 inhalations should be taken on any single occasion.		commended they seek medical	Aeros If DPI suitab	not 2 doses BD via EasyChamber		
TRADITIONAL REGIMEN	All patients with asthma should be treated with an inhaled corticosteroid (ICS); using short-acting bronchodilator (SABA) e.g. salbutamol monotherapy is now outdated and no longer acceptableREGULAR LOW DOSE ICS PLUS SABADry powderBudesonide 200 Easyhaler 1 dose BD or Pulmicort 200 Turbohaler 1 dose BDFirst LinePulmicort 200 Turbohaler plus Easyhaler Salbutamol 100 1-2 doses PRNAerosolOvar 50 MDI 2 doses BD		Consider Dry powder Inhaler (DPI) First Line Aerosol If DPI not	Image: Second Structure Fobumix 160/4.5 Easyhaler Mon Image: Second Structure Fobumix 160/4.5 Easyhaler Mon Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Fobumix 160/4.5 Easyhaler Image: Second Structure Image: Second Structure Image: Second Structure Image: Second Structure Fobumix 160/4.5 Easyhaler Image: Second Structure Image: Second Structu		powder2 doses BD orinhalerFostair 100/6 NEXThaler 2 doses(DPI)BD orFirst LineSymbicort 200/6 Turbohaler2 doses BD plus Salbutamol 100Easyhaler 1-2 doses PRN		At each review: Assess symptoms, measure lung function, check and optimise inhaler technique and adherence. Adjust therapy by stepping up and down treatment (move across). If patients are using their reliever medicine or experiencing symptoms more than twice a week and/or waking once a week or more, escalate treatment by moving across (up) the algorithm. Remember to update the patient's personalised self-action plan accordingly # Inhaler shelf-life - Fobumix Easyhaler (after opening the foil wrapping, use within 4 months,	
F	If DPI not via EasyChamber spacer or Qvar Suitable 50 Easibroatho 2 docos PD plus		plus Salamol 100mcg MDI 1-2 doses PRN via EasyChamber spacer		plus Luforbec MDI (3 month Salamol 100mcg MDI 1-2 doses PRN Fostair Nexthaler (after within 6 months via EasyChamber spacer within 6 months		c MDI (3 months at room temperature), Nexthaler (after opening the pouch use		

Written by A.Murphy, Jan 2024 on behalf of LLR Respiratory Prescribing Group (RPG). Review date Jan2025

ASTHMA INHALER CHOICE FORMULARY GUIDE

	FLEXIBLE	REGIMEN	TRADITIONAL		
Dry powder Inhaler (DPI) First Line	Fobumix 160/4.5 Easyhaler	Finance Finance Hammen Hammen Hammen	Budesonide 200 Easyhaler		
Inhalers	or Fostair 100/6 NEXThaler	a a a a a a a a a a a a a a a a a a a	Pulmicort 200 Turbohaler		
Think Green	or Symbicort 200/6 Turbohaler		Fobumix 160/4.5 + 320/9 Easyhaler		
			Fostair 100/6 + 200/6 NEXThaler		
			Symbicort 200/6 + 400/12 Turbohaler	22	
			Easyhaler Salbutamol 100		
Aerosol f DPI not suitable	Luforbec 100/6 MDI via spacer device Easychamber		Qvar 50 MDI via spacer device EasyChamber		
			Qvar 50 Easibreathe		
 Most of the evic recommend to p If MDI prescribe 	ABA PRESCRIBING lence for MART and AIR is prescribe first line ad a spacer device must be ion prescribe 2 inhalers – o	Luforbec 100/6 + 200/6 MDI via spacer device Easychamber			
 PRN Ensure prescrib ICS/LABA. Mon 	ion prescribe 2 innaiers – o ing templates allow patient itor prescription and review for <u>single inhaler maintena</u>	Salamol 100 MDI via spacer device EasyChamber			

Inhalers – THIINK GREEN see LLR APC Green Inhaler

The NHS has set the target of reaching net zero by 2040 for the greenhouse gas emissions which it can control ('NHS Carbon Footprint'). Inhalers are included in this scope and account for approximately 13% of the carbon footprint related to delivery of care. To reduce the carbon footprint of inhaler prescribing:

- Optimise asthma care following national guidelines.
- Offer dry powder inhalers (DPI) or soft mist inhalers as first choice where clinically appropriate.
- Check and optimise inhaler technique. Use <u>How to use your</u> inhaler | Asthma UK videos
- Ask patients to return all used or unwanted inhalers to community pharmacies for disposal by incineration or recycling.

7 steps to Optimise Inhaler Technique

- 1 Prepare the inhaler device.
- 2 Prepare or load the dose.

3 Breathe out gently as far as is comfortable, not into the inhaler.

4 Tilt the chin up slightly and put the mouthpiece in your mouth and close your lips around it.

5 Breathe in: for Aerosol (e.g. pMDI, (SMI) - Slowly and steadily, /and for Dry Powder Inhaler (DPI) - Quickly and deeply.

6 Remove the inhaler from your mouth and hold your breath for up to 10 seconds or for as long as possible.

7 Wait a few seconds then repeat steps 1-6 for a second dose, if needed. Close inhaler/replace lid as appropriate.

ADDITIONAL MEDICINES

Spiriva 2.5mcg Respimat Limited benefit in asthma patients with normal lung function



FURTHER INFORMATION

Prescribing Tips

KEY: SABA (Short-acting beta-agonist); ICS (Inhaled corticosteroid), LABA (Long-acting beta –agonist). MDI (metered dose inhaler). DPI = drv powder inhaler

- Review patients regularly, frequency depending on control (at least annually).
- Use the lowest effective ICS (+/-LABA) doses to achieve and maintain control step down.
- Remember Qvar/Luforbec (extra fine particle beclometasone) are 2.5 times as potent as Clenil (nonextra-fine beclometasone).
- High doses of ICS may cause long term harm. If the patient is well controlled and stable then consider reducing the dose.
- When using ICS consider total daily steroid load (including intranasal, topical, and oral steroids). Issue a steroid emergency card to patients as per guidance.
- A spacer device is mandatory when using a metered dose inhaler (MDI) for all ages.
- All people should receive education and a written personalised Asthma Action Plans your-asthmaplan-a4-trifold-digital-july22.pdf {available in GP clinical systems, access through Asthma Checklist Template).
- Check inhaler technique and adherence to medicine regimen (check prescription issues) at each appointment and/or before any change in treatment. Consider referring patients to the community pharmacist for a New Medicine Service review.
- Ensure your patient has had the annual flu vaccination, Covid-19 vaccination.
- Check for occupational asthma "Does your breathing get better during weekends/holidays?"
- All patients still smoking, should be encouraged to stop, and offered help to do so at every opportunity.

 5. How would you rate your asthma control during the past 4 weeks? Not controlled Asthma <u>symptom</u> control is best assessed using a validated tool = ACT questions (but you must also assess other features of poor control [box 1] ACT-20 = uncontrolled CONSENSUS PATHWAY FOR MANAGING UNCONTROLLED ASTHMA IN ADULTS Adapted from: https://www.healthinnovationxfor d.org/our-work/respiratory/asthma-in-addufs/ I) maintenance OCS for asthma I) controlled asthma I) not control (as assessed patiway-for-management-of- uncontrolled asthma in the previous 2 weeks, patiway-for-management-of- uncontrolled I) on maintenance OCS for asthma I) not maintenance OCS for asthma I) on maintenance OCS for asthma <li< th=""></li<>

AIM OF TREATMENT

1.

To control the disease with minimal side-effects. Asthma control is defined as:

- No daytime symptoms
- No night time awakening due to asthma
- No need for rescue medications
- No exacerbations
- No limitations on activity including exercise
- Normal lung function

2.

Use ACT to assess and monitor asthma control - In the past 4 weeks

1. How much of the time did your asthma keep you from getting as much done at work, school or home?

3 1. 2 All of the time Most of the time Some of the time A little of the time None of the time 2. How often have you had shortness of breath?

З.

4

5.

More than	Once a day	3 to 6 times a day	Once or twice a	Not at all		
once a day			week			
3. How often did	l your asthma syr	nptoms (wheezing	g, coughing, shor	tness of breath,		
chest tightness	or pain) wake you	u up at night or ea	Irlier than using i	n the morning?		
1.	2.	3.	4.	5.		
4 or more	2 or 3 nights a	Once a week	Once or twice	Not at all		
nights a week	week					
4. How often have you used your rescue inhaler (such as salbutamol)?						
1.	2.	3.	4.	5.		
3 or more	1 or 2 times ner	2 or 3 times ner	Once a week or	Not at all		

5. How would you rate your asthma control during the past 4 weeks?								
times a day	day	week	less					
3 or more	1 or 2 times per	2 or 3 times per	Once a week or	Not at				

	2. Poorly controlled		4. Well controlled	5. Complete	
at all		controlled		controlle	

Asthma <u>symptom</u> is best assessed u validated tool = questions (but yo also assess other for of poor control [b

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