Healthier Together

BNSSG Adult Asthma Guidelines 2022

Improving health and care in Bristol, North Somerset and South Gloucestershire

Carbon Footprint Key Low	Regular low dose ICS	Regular low dose ICS + LABA	Medium dose ICS + LABA Give steroid treatment card	High dose ICS + LABA Give steroid treatment + emergency card ▲ Consider secondary care referral				
High 🔶			Add Spiriva Respimat[®] 2 puffs OD if still					
		Fobumix [®] Easyhaler 80/4.5 1-2 puffs bd	Fobumix [®] Easyhaler 160/4.5 1-2 puffs bd	Fobumix [®] Easyhaler 320/9 ▲ 1-2 puffs bd				
Dry Powder Inhalers	Easyhaler [®] Beclometasone 200mcg 1 puff bd	Fostair [®] 100/6 NEXThaler 1 puff bd	Fostair [®] 100/6 NEXThaler 2 puffs bd	Fostair [®] 200/6 NEXThaler ▲ 2 puffs bd				
First choice if clinically appropriate	Flixotide [®] Accuhaler	Relvar [®] Ellipta [▼] 92/22 [#] 1 puff od	Relvar [®] Ellipta [▼] 92/22 [#] 1 puff od	Relvar [®] Ellipta [▼] 184/22 1 puff od				
	100mcg 1 puff bd 🚗	Symbicort [®] 100/6 Turbohaler 1-2 puffs bd	Symbicort [®] 200/6 Turbohaler 1-2 puffs bd	Symbicort [®] 400/12 Turbohaler ▲ 1-2 puffs bd				
Meter Dose		[#] Note: Relvar 92/22 has been de	signated as both a low and medium dose					
Inhalers	Clenil [®] Inhaler 100mcg	Luforbec [®] 100/6 Inhaler 1 puff bd 🛛 🔂	Luforbec [®] 100/6 inhaler 2 puffs bd 🛛 🔂	Luforbec [®] 200/6 inhaler A 2 puffs bd				
Second choice if DPI not appropriate	2 puffs bd 🚗	Combisal [®] 25/50 2 puffs bd 🛛 🚗	Combisal [®] 25/125 2 puffs bd 🚗	Combisal [®] 25/250 ▲ 2 puffs bd 주				
Breath Actuated MDI Second choice if DPI not appropriate	Qvar® Easi-Breathe 50mcg 2 puffs bd 🖚							
MART	Consider if MART regimen might be more appropriate (see below)							
	Patients who are on a MART regimen should NOT be prescribed salbutamol PRN							
Salbutamol	DPI Easyhaler® Salbutamol 100mcg 1-2 puffs PRN 👝 Ventolin Accuhaler® 200mcg 1 puff PRN							
	MDI Salamol [®] Inl	Do not prescribe Ventolin pMDI or ge	neric Salbutamol MDI due to their very large Airomir [®] Inhaler 100m	e carbon footprint				



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Why the update?

BNSSG have made the decision to delay publication of new clinical guidance until the release of the British Thoracic Society/National Institute for Health and Care Excellence (BTS/NICE) joint guideline. BTS and NICE will be releasing a new joint asthma guideline which is due to be published in November 2023 that takes into consideration recent scientific literature and will recommend cost effective management of asthma. With an increasing focus on the environmental impact of respiratory medicine, this guideline has been updated in the interim to create an emphasis on greener inhaler prescribing.

Inhaler selection & Environmental Considerations

Inhalers have a significant carbon footprint and make up ~3% of all NHS carbon emissions and 13% of direct patient care. In the UK a large proportion of our inhalers are pressurised metered dose inhalers (pMDIs) which contain hydrofluoroalkanes (HFA) propellants which are potent greenhouse gases. In January 2019, the NHS long-term plan proposed a 50% reduction in the greenhouse gas emissions from inhalers in 10 years. Using these simple steps when prescribing inhalers will help:

- 1. **DPIs** or **SMIs** should be offered **first line** where clinically appropriate. Find out how to check whether a patient is suitable for a DPI below.
- 2. Focus on finding the right medication and device for each individual using shared decision making and ensure good inhaler technique. **Optimal asthma management** is the key goal.
- 3. Avoid Flutiform MDI, Symbicort MDI, Ventolin Evohaler MDI and generic Salbutamol MDI which all have large carbon footprints.
- 4. Ask patients to return all used or unwanted inhalers to community pharmacies or dispensaries for disposal by incineration or re-cycling.
- 5. Click <u>here</u> for more guidance on how to reduce the environmental impact of inhalers. The <u>Greener Practice guide</u> is also helpful.

DPI suitability

Most patients will be able to use DPI inhalers but some patients with poor inspiratory ability may struggle to use them. If you are not sure, assess the patient's inspiratory ability by observing them inhaling. As always, inhaler technique is key and so should always be assessed and discussed whichever device is chosen.

- Can the patient take a deep quick breath in within 2-3 seconds? DPI likely to be fine
- Can the patient take a slow steady breath in over 4-5 seconds but not a deep quick breath? MDI may be needed instead of DPI

Maintenance and Reliver Therapy (MART)

Consider this if patient has inadequate control and frequent use of reliever medication and/or previous exacerbations requiring medical intervention. Patients must have education on the use of the inhaler as MART, and clinicians must be confident patients understand how to use it appropriately. Patients should be advised to always have their inhaler available for PRN use. Salbutamol PRN is **not** required in addition to MART. Practices should monitor compliance and any dose-related adverse effects. Guidance on how to complete a MART asthma action plan can be found <u>here</u>

Product for MART	Inhaler device	MART dosing	Max daily dose	Age restrictions
Symbicort 200/6 and 100/6	DPI Turbohaler	2 puffs per day + PRN	12 puffs*	12 years +
Fobumix 80/4.5 and 160/4.5	DPI Easyhaler	2 puffs per day + PRN	12 puffs*	18 years +
Luforbec 100/6	MDI	1 puff BD + PRN	8 puffs	18 years +
Fostair 100/6▲	NEXThaler	1 puff BD + PRN	8 puffs	18 years +



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Key considerations

If a patient has had <u>>2 courses of oral corticosteroids (OCS) in 12 months</u> or <u>>6 SABA inhalers in 12 months</u>, review the appropriateness of therapy immediately as their asthma is likely poorly controlled, putting them at greater risk of death from an asthma attack

Patients who are on a high dose ICS and have had <u>>3 OCS in the last 12 months</u> or are on maintenance OCS should be referred to a Severe Asthma Centre for consideration of biologic therapy.

<u>Acute Asthma</u>

- o Please refer to: <u>BTS/SIGN Asthma Guidelines Quick Reference Guide 2019, P.15-16</u>
- Patients using a medium or high dose ICS + LABA should **NOT** be advised to double-up their inhaler dose after an exacerbation
- All asthmatics discharged from hospital post exacerbation should be seen face-to-face by a GP/practice asthma nurse within 1-2 weeks

• <u>Steroid Emergency Cards:</u>

- The NPSA issued national guidance promoting a new patient-held Steroid Emergency Card to help healthcare staff identify patients with adrenal insufficiency and provide information on emergency treatment
- Please refer to Table 3 in the SPS guidance for advice on what inhaled glucocorticoid doses should receive a steroid emergency card
- \circ These inhalers are indicated with a \blacktriangle on the page above
- o Always remember to check if patient is using MART regime

• Smoking cessation services:

- o Bristol Stop Smoking Service
- North Somerset Smoke Free North Somerset
- o South Gloucestershire One You South Gloucestershire Smoke Free
- Please see <u>Remedy</u> for up-to-date referral pathways

Spacers

- Spacers must be considered for <u>all</u> patients on a **pMDI** as they have been shown to improve lung drug deposition and reduce side effects.
- Spacers should be cleaned monthly and replaced annually
- Community pharmacists can provide spacers to patients using MDIs
- o BNSSG recommend using the Aerochamber Flow-Vu which is compatible (but not licensed for use with) with all pMDIs.

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	Non-pharmacolo	ogical Asthma Care		
nsure correct diagnosis efer to: <u>BTS/SIGN</u> <u>sthma Guidelines Quick</u> <u>eference Guide 2019,</u> .2-6	Vaccinations Smoking cessation	Medications See inhaler table on r Check compliance and inhaler technique	next page Reviews	
	Weight loss	before stepping up Right breathe website	-At every review and before	Refer to secondary care if:
	Breathing exercises	 has good inhaler technique videos ✓ All inhalers must be prescribed by brand ✓ Ensure device consistency across therapy to enhance patient compliance 	stepping up therapy check; peak inspiratory flow, asthma control, number of exacerbations, time off work/school, OCS use, inhaler technique, adherence, SABA reliance, trigger factors, smoking status -Consider <u>Asthma Control Test</u> when reviewing patients -Recheck diagnosis if asthma	 -If there is diagnostic uncertainty -Admission to hospital for poorly controlled asthma -Asthma remains uncontrolled after 3 months following treatment optimisation -There is complicating multi- morbidity
BNSSG Medicines Optimisation tea BNSSG Respiratory Working Group	,	 Consider if MART regimen is suitable Spacers should be used with MDI inhalers. They should 	control remains poor despite using at least a low dose ICS/LABA -Every patient must have a <u>Personalised Asthma Action Plan</u> - Rhinitis is a risk factor for the development and increasing severity of asthma. Refer to	-Consideration of monoclonal antibody therapy -If complicating lung conditions (e.g. vasculitis, allergic bronchopulmonary aspergillosis or bronchiectasis)
BNSSG Respiratory Working Group Approved by BNSSG Area Prescribin December 2022. Minor amendmen Review December 2024	0	be cleaned monthly and replaced annually	 <u>BNSSG Formulary</u> for medication Consider stepping therapy down after <u>></u> 3 months complete asthma control 	 If ≥2 courses of oral corticosteroids in 12 months, despite optimising medication