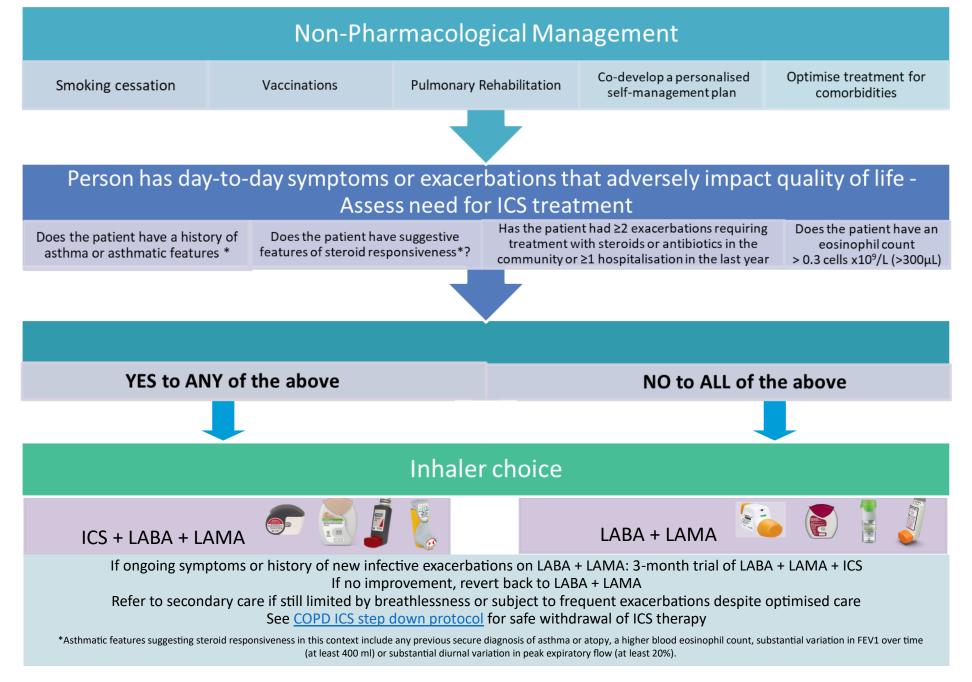


Healthier Together

BNSSG COPD Management Guidelines 2025

North Somerset and South Gloucestershire





BNSSG COPD Management Guidelines 2025

Fundamentals of COPD care

This provides important health benefits e.g. smoking cessation reduces disease progression, pulmonary rehabilitation improves quality of life, increasing activity levels improves prognosis.

Treating tobacco	Utilise every contact to offer brief interventions for smoking cessation
freating tobacco	• See <u>Smoking Cessation Remedy</u> page for Nicotine Replacement (NRT) guideline and referrals local smoking cessation services
dependency	<u>NHS targeted lung cancer screening</u> is available for all current and ex-smokers aged 55-74
	Annual flu, COVID and RVS vaccines should be offered in line with <u>The Green Book recommendations</u>
Vaccinations	A single dose of pneumococcal vaccine PPV23 should be offered in line with <u>The Green Book recommendations</u>
	• There is strong evidence of the benefits of pulmonary rehabilitation at all stages of COPD.
Pulmonary Rehabilitation	The British Lung Foundation has helpful online <u>exercise videos</u>
	• Please see <u>Remedy</u> for up-to-date referral pathways and the My MHealth <u>myCOPD App</u> which offers exercises for patients at home
Increase daily activity	• Patients should be advised of simple ways to improve functional activity to improve breathlessness and reduce the cycle of deconditioning.
	 Exercises to help you feel more energetic Asthma + Lung UK (asthmaandlung.org.uk)
	This should be reviewed regularly and always before increasing treatment.
	• It is not always possible to utilise same device for all treatments but you should aim to use the same technique and type (MDI/DPI)
Inhaler technique	• Add a spacer device for use with MDI
	• Instruction for inhaling via a MDI should be "gentle and deep" and "forceful and deep" for DPIs.
	• Resource: educational videos which show correct technique for each device are available at <u>RightBreathe</u> and on the <u>myCOPD App</u>
Oxygen	 Patients must be advised to stop smoking. Refer for assessment of long-term oxygen therapy if oxygen sats are ≤92% while breathing air and stable or ≤94% if peripheral oedema, polycythaemia (haematocrit ≥55%) or pulmonary hypertension. Please see <u>Remedy</u> for up-to-date referral pathways.
Self-management Plan	• A personalised self-management plan should be developed in conjunction with the patient and can be found here <u>COPD self-management plan – Asthma + Lung UK (asthmaandlung.org.uk)</u>
Consider and treat	• Consider screening for anxiety and depression (for example using PHQ-9 & GAD-7). Cognitive behavioural therapy can be useful.
	Consider <u>osteoporosis risk</u> and bone protection
co-morbid disease	
Advanced Care Planning	 Consider conversations about advance care planning and end of life care with referral to specialist teams as appropriate. Consider referral to hospice <u>Fatigue and Breathlessness course</u>

Diagnosis

Consider the diagnosis of COPD in individuals over the age of 40 with a relevant smoking history or exposure to risk factors of COPD and any of the following: Exertional breathlessness, chronic cough, regular sputum production, frequent winter 'bronchitis' or wheeze

If COPD is suspected (and in the absence of contraindications to spirometry) confirm airway obstruction with post-bronchodilator spirometry. Obstructive deficit if FEV1/FVC ratio <0.7 At diagnosis perform:

- Chest x-ray and ECG to exclude other diagnosis
- FBC to identify anaemia or polycythaemia +/- Alpha 1 antitrypsin blood test
- Assess and record BMI (ensure dietary advice and support if BMI <20 or >30)

Exacerbations Management

Exacerbations are defined as increasing respiratory symptoms requiring escalation of treatment. Diagnose if acute change in symptoms beyond normal day-to-day variation e.g. increased dyspnoea, increasing sputum volume or purulent sputum. The decision to prescribe steroids and antibiotics should ideally be made following a thorough face-to-face assessment (including vital signs and chest examination) with appropriate follow up arranged. Use the factors in <u>Table 7 on the NICE guideline</u> to assess whether people with COPD need hospital treatment.

Management

1. Increase use of SABA/SAMA

2. Oral prednisolone 30 mg daily for 5 days

Consider gastro-protection in patients at risk of gastric ulceration. Also consider issuing an NHS Steroid Emergency Card if on a triple therapy inhaler too.

Consider gradual withdrawal of corticosteroids only if patient has recently received repeat or prolonged courses of corticosteroids.

3. If purulent sputum and increased dyspnoea or increased sputum volume consider addition of antibiotics

First line Amoxicillin 500mg TDS for 5 days or Doxycycline 200mg STAT then 100mg OD for 4 days or Clarithromycin 500mg BD for 5 days.

Stop calcium and iron supplements plus Peptac/Gaviscon for duration of doxycycline.

Do not repeat unless sputum purulent. Second line see <u>BNSSG Antimicrobial guidelines</u> If \geq 2 exacerbations per year despite medical optimisation (ensure are on triple therapy) refer to secondary care In patients experiencing frequent exacerbations consider a concomitant diagnosis of bronchiectasis

COPD Rescue Packs

See <u>COPD Rescue Pack Prescribers Guide</u> for more information on the criteria for issuing a rescue pack appropriately.

A patient information leaflet must be provided with a rescue pack

Other medicines considerations

- Consider Acetylcisteine (Acepiro[®]) 600mg OD effervescent tablet to reduce sputum viscosity if experiencing chronic productive cough. Note, where concomitant use of oral antibiotics is required, separate administration by an interval of at least two hours. Alternatively, consider carbocisteine 750mg TDS. Review after 4 weeks and stop if no benefit. If continued, reduce dose to 750mg BD as symptoms improve. Use with caution if risk of peptic ulceration.
- Long-term use of oral corticosteroid therapy in COPD is not normally recommended
- OTC cough preparations, particularly with anti-tussive properties, should not be used in the management of stable COPD
- Before starting prophylactic antibiotic therapy, consider respiratory specialist input

When to refer

- Diagnostic uncertainty
- Suspected asthma or COPD with atypical or additional symptoms or signs (e.g. haemoptysis, weight loss, night sweats, fever or signs of bronchiectasis or other structural lung disease)
- Persistent symptoms and/or exacerbations despite optimal treatment
- Development of complications including pulmonary hypertension and significant blood gas derangement
- Consideration of lung volume reduction (non-smokers with an FEV < 50% with non-responsive breathlessness). See NICE criteria



Inhaler selection & Environmental Considerations

Inhalers have a significant carbon footprint and make up ~3% of all NHS carbon emissions. Using these simple steps when prescribing inhalers will help reduce the environmental impact:

1. Dry Powder Inhalers (DPIs) or Soft Mist Inhalers (SMIs) should be offered first line where clinically appropriate. The inhalers below are the most cost-effective.

2. Focus on finding the right medication and device for each individual using shared decision making and ensure good inhaler technique. Optimal COPD management is the key goal.

3. Ask patients to return all used or unwanted inhalers to community pharmacies or dispensaries for disposal by incineration or re-cycling.

Inhaler Choice

4. Click here to find out more practical steps to reduce the environmental impact of inhalers including greener product switches. The Greener Practice guide is also helpful.

	LABA/LAMA/ICS									
	Inhaler	Image	Dose	Device	Inspiratory Flow and Re- sistance ¹	Equivalent CO ₂ eq annual car miles ^{2,3}				
	Trelegy® Fluticasone/umeclidinium/ vilanterol		1 puff daily	Ellipta® Dry powder inhaler	Hard/fast inhalation Med Low	25 miles				
	Trimbow [®] 87/5/9 Beclometasone/formoterol/ glycopyrronium		2 puffs twice daily	NEXThaler® Dry powder inhaler	Hard/fast inhalation Med High	39 miles				
	Trimbow [®] 87/5/9 + spacer Beclometasone/formoterol/ glycopyrronium		2 puffs twice daily	Metered-dose inhaler	Slow/long co-ordinated inhalation	624 miles				
	Trixeo[®] + spacer Budesonide/formoterol/ glycopyrronium	B	2 puffs twice daily	Aerosphere [®] Metered-dose inhaler	Slow/long co-ordinated inhalation	572 miles				
	LABA/LAMA									
	Anoro [®] Umeclidinium/vilanterol		1 puff daily	Ellipta® Dry powder inhaler	Hard/fast inhalation	25 miles				
	Duaklir® Aclidinium/ formoterol		1 puff twice daily	Genuair® Dry powder inhaler	Hard/fast inhalation Medium	47 miles				
	Spiolto® Tiotropium/olodaterol Prescribe refills for repeat prescriptions + a new device every 6 months. Can request to be primed before dispensing			Respimat® Soft mist	Slow/long co-ordinated inhalation — Low	34 miles				
	Bevespi [®] + spacer Glycopyrronium/formoterol		2 puffs twice daily	Aerosphere® Metered-dose inhaler	Slow/long co-ordinated inhalation — Low	625 miles				



BNSSG COPD Management Guidelines 2025

Offer SABA PRN									
Inhaler	Image	Dose	Device	Inspiratory Flow and Re- sistance ¹	Equivalent CO ₂ eq annual car miles ^{2,3}				
Easyhaler® 100mcg Salbutamol	A A	1-2 puffs PRN Max 8 puffs/day	Easyhaler® Dry Powder Inhaler	Hard/fast inhalation High	27 miles				
Bricanyl [®] 500mcg terbutaline	Rangel Brannin Rangel	1 puff PRN Max 4 puffs/day	Turbohaler® Dry Powder Inhaler	Hard/fast inhalation	27 miles				
Salamol® 100mcg Salbutamol	1	1-2 puffs PRN Max 8 puffs/day	Metered-dose inhaler	Slow/long co-ordinated inhalation	70 miles				

References

1. Clement Clarke International Ltd (2019). Inhaler Resistance Range. Online via https://www.haag-streit.com/fileadmin/Clement Clarke/Inhaler Technique Training/In-Check DIAL G16/3109306 - Inhaler Resistance Range card -

iss7.pdf [Accessed 15 Oct 2024]

2. PrescQipp (2021). Hot topics. Online via https://www.prescqipp.info/our-resources/webkits/hot-topics/ [Accessed 15 Oct 2024]

Approved BNSSG Area Prescribing and Medicines Committee Dec 2024 Review Dec 2027