

PHARMACOLOGICAL MANAGEMENT OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD) IN PRIMARY & SECONDARY CARE

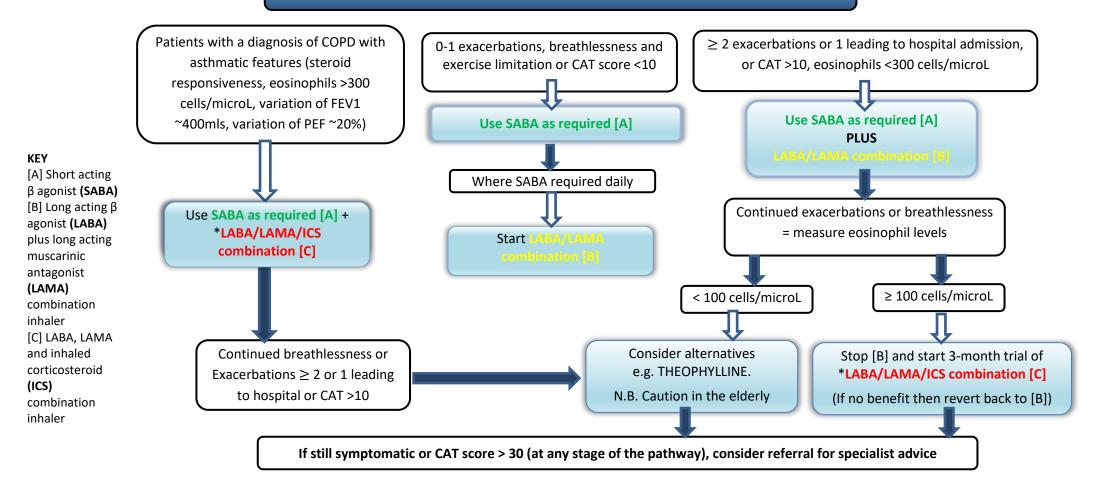
TARGET AUDIENCE	Primary & Secondary Care
PATIENT GROUP	Adults with a diagnosis of Chronic Obstructive Pulmonary Disease

Lead Author	Prof Manish Patel & Prof Andrew Smith	Date approved	27 [™] August 2024
Version	6.3	Review Date	27 [™] August 2027



Clinical Guidelines Summary

COPD confirmed by spirometry (see physiologist report)



Excessive mucus production (at any stage of the pathway) = consider adding oral Acepiro® (Acetylcisteine) 600mg effervescent tablets 1 daily. Review at 4-6 weeks and stop if no benefit.

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Guideline Body



COPD patients should be reviewed at least annually. At each review give advice on smoking cessation, ensure pneumococcal, influenza & COVID 19 vaccinations are up to date, optimise BMI, promote exercise, enrol patient onto pulmonary rehabilitation programme if MRC≥3

Important considerations:

- Consider Chest x-ray to exclude other pathologies & FBC on diagnosis.
- Consider Checking O² saturation annually.
- > Optimise treatment of co-morbidities.
- Prescribe inhalers using the brand name (exceptions are salbutamol and terbutaline).
- > Ensure good inhaler technique.
- Trial medication for 3 months. If no benefit = STOP.
- LAMAs should be used with caution in patients with cardiovascular disease.

<u>*Consider ICS withdrawal in the following circumstances (for patients without asthmatic features):</u>

- Eosinophil level <100 cells/microL, and no history of exacerbations in the past year = consider withdrawal of ICS to LAMA/LABA in the first instance (if on triple therapy),
- Patients with bacterial pneumonia if eosinophil level <300 cells/microL</p>

Glossary

FEV1: Forced expiratory volume in 1 second	FVC: Forced Vital Capacity	BMI: Body Mass Index	PEF: Peak Expiratory Flow		
CAT: COPD Assessment Test	MRC: Medical Research Council Dyspnoea scale	GHG: Green house gas emissions (g CO ₂ e) per puff (<u>PresQUIPP Bulletin 295</u> \swarrow Low <35 g CO ₂ e per puff \checkmark High ≥35 g CO ₂ e per puff			
pMDI: pressurised Metered Dose Inhaler	DPI: Dry Powder Inhaler	SDT: Scottish Drug Tariff	Dm+d: Dictionary of Medicines & Devices		

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Group	Prescribe as	Inhaler	Grams	Dose	Ingredient	SABA	LAMA	LABA	ICS	Cost for 30 days
		type	CO₂e per							treatment (SDT and
			puff							<u>dm+d</u> March 2024)
[A]	Salbultamol Easyhaler 200 micrograms	DPI	<u></u>	1 doses as required	Salbutamol	٧				£6.63
	Salbutamol 100 micrograms	pMDI	ø	2 doses as required *	Salbutamol	٧				£1.46
	Terbutaline 500 micrograms	DPI	ø	1 dose as required	Terbutaline	V				£8.30
[B]	Anoro Ellipta [®] 55/22 micrograms	DPI		1 dose daily	Vilanterol					£32.50
					Umeclidinium		V	v		
	Bevespi [®] 7.2/5 micrograms	pMDI	0	2 doses twice daily*	Glycopyrronium					£32.50
					Formoterol		V	V		
	Spiolto Respimat [®] 2.5/2.5 micrograms	DPI	A	2 doses daily	Tiotropium					£32.50
			•		Umeclidinium		V	٧		
[C]	Trelegy Ellipta [®] 92/55/22micrograms	DPI	A	1 dose daily	Fluticasone					
			•		Vilanterol		V	V	V	£44.50
					Umeclidinium					
	Trixeo Aerosphere [®] 5/7.2/160	pMDI		2 doses twice daily*	Formoterol					
	micrograms		•		Budesonide		V	V	V	£44.50
					Glycopyrronium					
	Trimbow NEXTHALER [®] 88/5/9	DPI		2 doses twice daily	Beclometasone					
	micrograms		-		Formoterol		V	V	V	£44.50
					Glycopyrronium					
	Trimbow [®] 87/5/9 micrograms	pMDI	0	2 doses twice daily*	Beclometasone					
			•		Formoterol		V	V	v	£44.50
					Glycopyrronium					

*Patients receiving an MDI inhaler should be prescribed a spacer device. Use of a spacer can

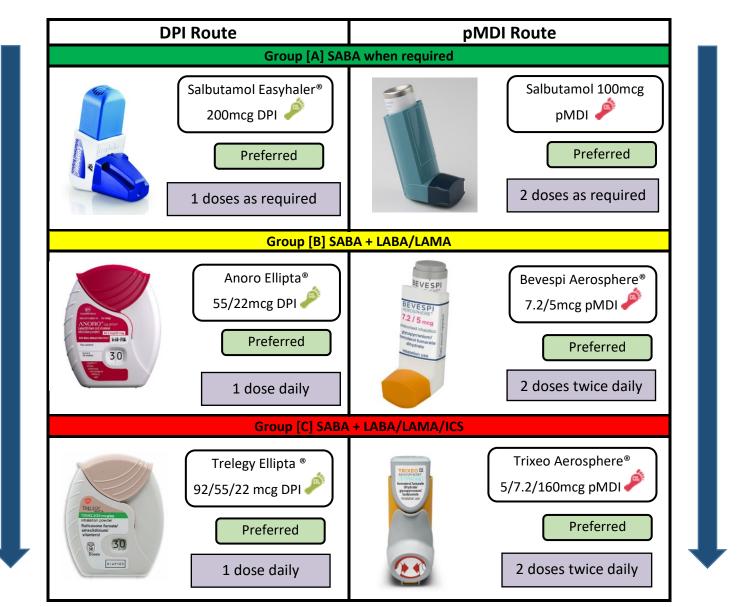
Formulary status Preferred

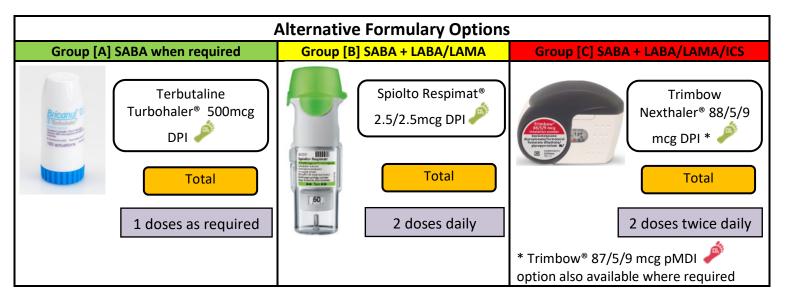
Total

improve deposition of drug to the lower airways by up to 50%. The device should be cleaned regularly as per the manufacturer's advice and should be replaced every 12 months (<u>RESPe</u>)

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NHSL COPD Quick Reference Treatment Guide





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References/Evidence

Global Initiative for Chronic Obstructive Lung Disease (GOLD). 2024. Global Strategy for Prevention, Diagnosis and Management of COPD: 2024 Report. [online]. Philadelphia: Global Initiative for Chronic Obstructive Lung Disease (GOLD). Available from: <u>2024</u> <u>GOLD Report - Global Initiative for Chronic Obstructive Lung Disease - GOLD (goldcopd.org)</u> [Accessed 30.04.2024]

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Appendices

1. Governance information for Guidance document

Lead Author(s):	Prof Manish Patel and Prof Andrew Smith
Endorsing Body:	ADTC
Version Number:	6.2
Approval date	27 th August 2024
Review Date:	27 th August 2027
Responsible Person (if different from lead author)	

CONSULTATION AND DIST	TRIBUTION RECORD		
Contributing Author / Authors / Hayley Docherty Prescribing Adviser, Leo Haddock Advanced Clinical Services Pharmacist			
Consultation Process / Stakeholders:	NHSL Respiratory Service Improvement Group & the Lanarkshire Local Medical Committee		

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Distribu	ition		
CHANGE	RECORD		
Date	Lead Author	Change	Version No.
	Dr Patel & Dr Smith	Reviewed in line with GOLD 2024. Referral to pulmonary rehab changed to MRC ≥3. COVID 19 vaccine recommendation added ICS/LABA option removed ICS withdrawal criteria updated to Patients with bacterial pneumonia if eosinophil level <300 cells/microL	6.2
	Dr Patel & Dr Smith	NACYS changed to ACEPIRO in line with NHSL formulary	6.2
	Dr Patel & Dr Smith	Bevespi added as MDI option for LABA/LAMA patients following SMC approval	6.2
	Dr Patel & Dr Smith	Utlibro and Duaklir removed and Spiolto moved to total formulary	6.2
	Dr Patel & Dr Smith	Trixeo moved to preferred list based on slightly better GHG emission	6.2
	Dr Patel & Dr Smith	GHG emissions indicated for each inhaler and picture guide added	6.2
	Dr Patel & Dr Smith	Trimbow moved to total formulary with the Nextahler device also added as DPI option	6.2
	Dr Patel & Dr Smith	Salbutamol Easyhaler added as DPI option for SABA, already on formulary	6.2

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Pharmacological	Management o	of COPD in	Primary Care

20/11/24	Dr Patel & Dr	Updated spirometry guidance for COPD	6.3
	Smith	diagnosis	



2.You can include additional appendices with complimentary information that doesn't fit into the main text of your guideline, but is crucial and supports its understanding.

e.g. supporting documents for implementation of guideline, patient information, specific monitoring requirements for secondary and primary care clinicians, dosing regimen/considerations according to weight and/or creatinine clearance

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