

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

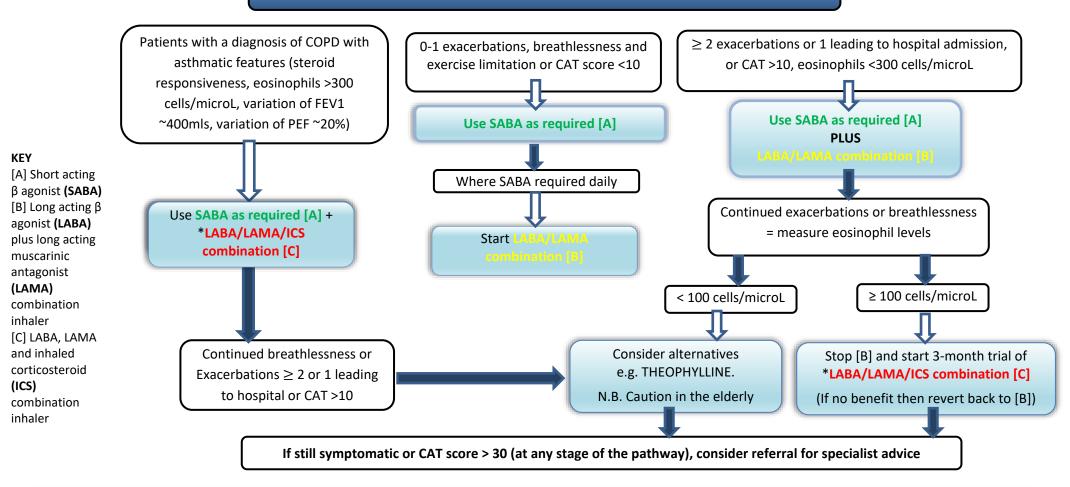
TARGET AUDIENCE	Primary & Secondary Care
PATIENT GROUP	Adults with a diagnosis of Chronic Obstructive Pulmonary Disease

Lead Author	Prof Manish Patel & Prof Andrew Smith	Date approved	27 TH August 2024
Version	6.2	Review Date	27 TH August 2027



Clinical Guidelines Summary

COPD confirmed by spirometry with FEV1/FVC < 0.7



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.

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

- 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

Glossary

FEV1: Forced expiratory volume in 1	FVC: Forced Vital Capacity	BMI: Body Mass Index PEF: Peak Expiratory Flow			
second					
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>			
pMDI: pressurised Metered Dose Inhaler	DPI: Dry Powder Inhaler	SDT: Scottish Drug Tariff Dm+d: Dictionary of Medicin			
			Devices		

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

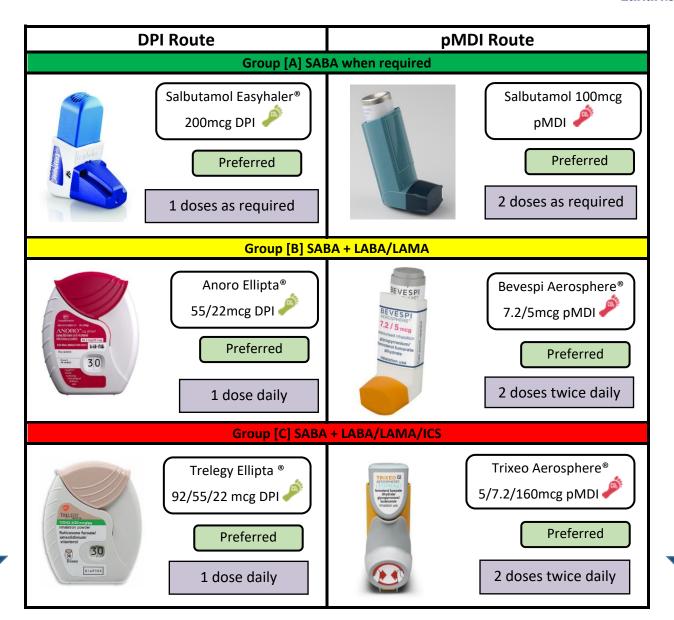
*Patients receiving an MDI inhaler should be prescribed a spacer device. Use of a spacer can improve deposition of drug to the lower airways by up to 50%. The device should be cleaned regularly as per the manufacturer's advice and should be replaced every 12 months (RESPe)

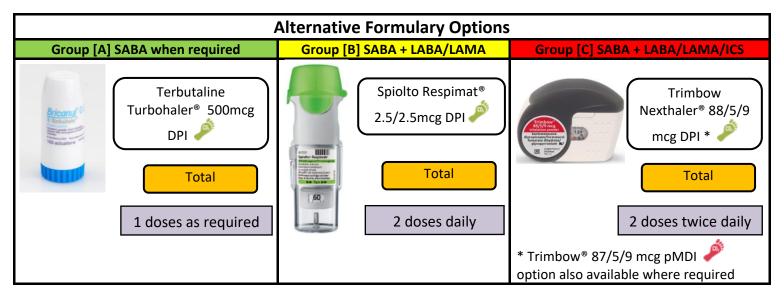
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References/Evidence

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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
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Responsible Person (if different from lead author)	

CONSULTATION AND DISTRIBUTION RECORD						
Contributing Author / Authors	1 Dharmanat					
Consultation Process / Stakeholders:	NHSL Respiratory Service Improvement Group & the Lanarkshire Local Medical Committee					

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Pharmacological	Management o	f COPD in	Primary Care

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Distribution		

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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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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