

# The ICST COPD Management and Prescribing Guideline

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**COPDhub**  
England

Get your patients to download COPDhub app which features a personalised COPD care plan and inhaler technique videos

Asthma+ Lung UK



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**STEP 1 INFORMATION:**  
ASSESSMENT

## Red Flag Symptoms

- Persistent cough in a smoker
- Haemoptysis
- Chest pain
- Unexplained weight loss
- Clubbing in a smoker
- Abnormal CXR

**BD:** Twice a day  
**CAT:** COPD Assessment Test Score  
**CXR:** Chest X-ray  
**DPI:** Dry Powder Inhaler  
**FBC:** Full Blood Count  
**GWP:** Global warming potential  
**ICS:** Inhaled Corticosteroid  
**LABA:** Long-acting Beta<sub>2</sub> Agonist  
**LAMA:** Long Acting Muscarinic Antagonist  
**LLN:** Lower limit of normal  
**LVRS:** Lung Volume Reduction Surgery  
**MRC:** Medical Research Council Dyspnoea Scale  
**OD:** Once daily  
**pMDI:** pressurised Metered Dose Inhaler  
**SABA:** Short-acting Beta<sub>2</sub> Agonist  
**SpO<sub>2</sub>:** Oxygen Saturations

**STEP 4 INFORMATION:**  
PRESCRIBE

## Mild COPD

Mild occasional symptoms (MRC 1-2 and CAT <10) and infrequent exacerbations (0-1 per year and no hospitalisations)

## Moderate to Severe COPD with NO steroid responsive features

- Moderate-severe symptoms (MRC 3-5 and/or CAT ≥10)
- AND infrequent exacerbations
- OR frequent exacerbations (≥2 per year) or ≥1 hospitalisation AND low eosinophils (<0.1 x10<sup>9</sup>/mL)

## Moderate to Severe COPD WITH steroid responsive features

- Moderate-severe symptoms (MRC 3-5 and/or CAT ≥10)
- AND frequent exacerbations (≥2 per year) or ≥1 hospitalisation AND high eosinophils (>0.3 x10<sup>9</sup>/mL)

## One-month trial of mucolytic

- Consider a one month trial if chronic productive cough
- Acetylcysteine 600mg once daily or carbocysteine 750mg three times daily for 2 weeks then twice daily
- STOP if treatment ineffective (no symptomatic improvement)

## CORE PRINCIPLES

People aged over 35 years who present with one or more features from the COPD likelihood checklist should have post-bronchodilator spirometry.  
Once diagnosis is confirmed, start with high-value non-pharmacological interventions (step 3).  
Inhaled therapy is prescribed according to the patient's disease severity (step 4).

## STEP 1: ASSESSMENT

### COPD likelihood checklist

#### Signs and symptoms:

- Smoking history (>20 pack years)
- Other exposures (Pollution, biomass fuel burning, other noxious fume exposure)
- Exertional breathlessness
- Chronic cough
- Regular sputum production
- Wheeze
- Ankle swelling

#### Perform investigations

- Post-bronchodilator spirometry
- Chest X-ray (CXR)
- Full Blood Count (FBC)
- Oxygen Sats (SpO<sub>2</sub>)
- α-1 anti-trypsin (if early onset, minimal smoking or family history)

### Any red flag symptoms?

Perform CXR and refer as urgent suspected cancer

## STEP 2: DIAGNOSIS

Post-bronchodilator  
FEV1/FVC ratio <0.7

## STEP 3: NON-PHARMACOLOGICAL INTERVENTIONS

- Provide a self-management plan
- Offer current smokers support to quit smoking
- Offer pulmonary rehabilitation if MRC>3
- Vaccination - Flu - COVID - Pneumococcal
- Anxiety/ mood management
- Diet/ exercise/ nutrition advice to maintain healthy BMI and active lifestyle

## STEP 4: PRESCRIBE

From the list of inhalers provided, choose the most suitable for the patient, considering inspiratory flow and inhaler technique. Choose a dry powder inhaler preferentially to reduce the carbon footprint, unless the patient cannot use one.

Mild COPD	Moderate to Severe COPD with NO steroid responsive features	Moderate to Severe COPD WITH steroid responsive features
Prescribe SABA PRN	Prescribe LABA + LAMA	Prescribe Triple therapy
Review exacerbation frequency and SABA use regularly Step up to LABA + LAMA if exacerbations or needing regular SABA	Review exacerbation frequency and symptom severity regularly Escalate to triple therapy if indicated, considering other physical/ mental health conditions that might worsen symptoms	If continued exacerbations or breathlessness, review adherence, inhaler technique and non-pharmacological interventions Consider referral (see below)

## STEP 5: REVIEW

Review annually if COPD is well controlled

### Referral criteria to secondary care:

- Diagnosis age <50 years
- Uncertain diagnosis
- > 3 exacerbations per year or persistent breathlessness despite maximum inhaled therapy
- Oxygen saturations <92% for LTOT assessment
- Consider referral to palliative care team or breathlessness clinic where required.
- For consideration of LVRS/ roflumilast/ azithromycin

### Manage exacerbations:

- Prescribe a SABA for rescue therapy
- Prescribe prednisolone (30-40mg once a day for 5 days)
- Prescribe antibiotic if increased sputum purulence, volume and breathlessness

### Chronic productive cough?

- Consider one-month trial of mucolytic
- STOP if treatment ineffective

## DID YOU KNOW?

NHS England has set a target to reduce the proportion of high global warming potential (GWP) inhalers

**PRESCRIBE A DPI PREFERENTIALLY UNLESS THE PATIENT CANNOT USE ONE**

Learn more here



**STEP 4 INFORMATION:**  
PRESCRIBE

## Inhaler principles

- Always prescribe by brand to ensure consistent device
- Choice of inhaler is based on patient's preference and observed inhaler technique
- Whenever possible choose a device with low global warming potential
- Prescribe inhalers of the same type; do not mix MDIs and DPIS
- MDIs should be used with a spacer such as AeroChamber Plus Flow-Vu

## Prescribe SABA

Below are options in this category

**Easyhaler Salbutamol**  
100 micrograms  
2 puffs PRN  
Quick and deep



**Bricanyl Turbohaler**  
500 micrograms  
1 puff PRN  
Quick and deep



**Salamol pMDI**  
100 micrograms  
2 puffs PRN  
Slow and steady via spacer



**Salamol Easi-Breathe**  
100 micrograms  
2 puffs PRN  
Slow and steady



## Prescribe a (LABA + LAMA)

Below are options in this category

**Duaklir Genuair**  
340/12  
1 dose BD  
Quick and deep



**Anoro Ellipta**  
55/22  
1 dose OD  
Quick and deep



**Spiolto Respimat**  
2.5/2.5  
2 doses OD  
Slow and steady



**Bevespi Aerosphere pMDI**  
7.2/5  
2 doses BD  
Slow and steady via spacer



## Prescribe triple therapy (ICS + LABA + LAMA)

Below are options in this category

**Trelegy Ellipta**  
92/55/22  
1 dose OD  
Quick and deep



**Trimbow NEXThaler**  
88/5/9  
2 dose BD  
Quick and deep



**Trimbow pMDI**  
87/5/9  
2 doses BD  
Slow and steady via spacer



**Trixeo Aerosphere pMDI**  
5/7.2/160  
2 doses BD  
Slow and steady via spacer



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