

Adult COPD Quick Reference Guide

Key points:

- Advise all patients with COPD to **stop smoking** – refer to [One Life Suffolk/Provide](#) for advice and support.
- Provide **pulmonary rehabilitation** for all who need it (see overleaf for criteria and referral route).
- Refer patients for dietetic advice if they have an abnormal BMI (high or low) or changing over time¹ and encourage exercise/activity
- Be aware of the risk of developing side effects (including non-fatal pneumonia) in people with COPD treated with ICS.
- Offer a one-off pneumococcal vaccination and an annual influenza vaccination to all patients with COPD¹.
- Review people with mild or moderate COPD at least once a year and those with very severe COPD at least twice a year¹.
- Ensure patients have a self-management plan detailing how to recognise and respond to the early signs of an exacerbation².
- Maintain patient's preferred choice of device where clinically appropriate and cost effective.

Initial Treatment

The Modified Medical Research Council (mMRC) Dyspnoea Scale

Grade of dyspnoea	Description
0	Not troubled by breathlessness except on strenuous exercise
1	Shortness of breath when hurrying on the level or walking up a slight hill
2	Walks slower than people of the same age on the level because of breathlessness or has to stop for breath when walking at own pace on the level
3	Stops for breath after walking about 100m or after a few minutes on the level
4	Too breathless to leave the house or breathlessness when dressing or undressing

CAT Test

Available at www.catestonline.org. Should be repeated every 2-3 months in order to score how a patient views their current disease severity, scoring each of the sections from 1-5. It can also help to measure any improvement of symptoms or progression of disease.

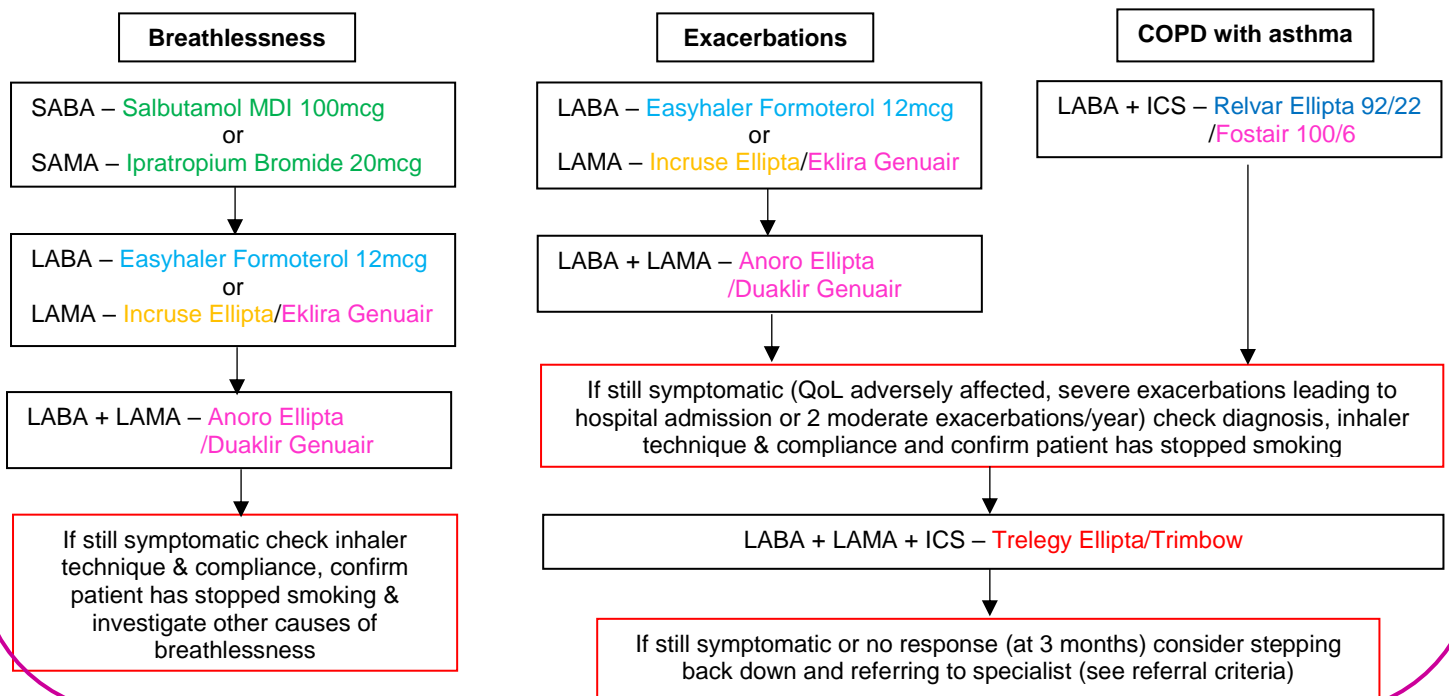
All patients should have a SABA inhaler e.g. **Salbutamol MDI 100mcg**

GOLD A	GOLD B	GOLD C	GOLD D	COPD with asthma
<i>mMRC 0-1, CAT <10 with 0-1 exacerbations in last 12 months (none of which led to a hospital admission)</i>	<i>mMRC ≥ 2, CAT ≥ 10 with 0-1 exacerbations in last 12 months (none of which led to a hospital admission)</i>	<i>mMRC 0-1, CAT <10 with 2 or more exacerbations in last 12 months (1 or more of these leading to a hospital admission)</i>	<i>mMRC ≥ 2, CAT ≥ 10 with 2 or more exacerbations in last 12 months (1 or more of these leading to a hospital admission)</i>	
SABA Salbutamol MDI 100mcg or SAMA Ipratropium Bromide 20mcg	LABA Easyhaler Formoterol 12mcg or LAMA Incruse Ellipta/Eklira Genuair	LAMA Incruse Ellipta/ Eklira Genuair	LAMA + LABA Anoro Ellipta/ Duaklir Genuair	LABA + ICS Relvar Ellipta 92/22/ Fostair 100/6

Follow-up Treatment

If response to initial treatment is appropriate, **maintain it**.

- If not:
- Consider the predominant symptom to treat (breathlessness or exacerbations), use exacerbation pathway if both exacerbations and breathlessness need to be targeted
 - Find current treatment in flowchart corresponding to predominant symptom and follow treatment pathway. Assess response to new treatment, adjust if needed and review



	SABA	SAMA	LABA	LAMA	LABA + LAMA	LABA + ICS	LABA+LAMA +ICS
1 st Choice	Salbutamol 100mcg (MDI) [unlicensed indication] 1-2 puffs prn	Ipratropium Bromide 20mcg (MDI) 1-2 puffs prn	Easyhaler Formoterol® 12mcg* (DPI) 1 puff BD	Incruse Ellipta® (umeclidinium bromide)* (DPI) 1 puff OD	Anoro Ellipta® 55/22* (DPI) 1 puff OD	Relvar Ellipta® 92/22* (DPI) [BDP 1000mcg] 1 puff OD	Trelegy Ellipta® 92/55/22* 1 puff OD
2 nd Choice	Easyhaler Salbutamol® 100mcg (DPI) [unlicensed indication] 1-2 puffs prn		Oxis Turbohaler® 12mcg* (formoterol) (DPI) 1 puff BD	Eklira Genuair® (aclidinium bromide)* (DPI) 1 puff BD	Duaklir Genuair® 340/12* (DPI) 1 puff BD	Fostair® 100/6* (MDI) [BDP 1000mcg] 2 puffs BD	Trimbow® (MDI) 87/5/9 2 puffs BD

* Inhaler features a dose counter

Base inhaler device choice on patient's symptomatic response and preference, alongside consideration for inspiratory force

Colour coded costs

Cost brackets for one year of regular treatment at specified dose.

<£100	£300 - £349
£100 - £199	£350 - £399
£200 - £299	£400 - £499
£500-599	

Key

MDI	- Metered dose inhaler
DPI	- Dry powder inhaler
SABA	- Short acting β 2 agonist
LABA	- Long acting β 2 agonist
LAMA	- Long acting muscarinic antagonist
ICS	- Inhaled corticosteroid
[BDP xxxmcg]	- Equivalent dose of beclometasone dipropionate

Spacer devices (for MDI devices only)

- Replace device every 12 months
- Use either **Space Chamber Plus compact** (dishwasher safe) or **Aerochamber Plus**
- **Flo-tone device** (a mini spacer with training whistle) is available in primary care to encourage correct pMDI use

Oral Corticosteroids¹

- Maintenance use of oral corticosteroids in COPD is **not** recommended.
- Some people with advanced COPD may need long term oral maintenance treatment if therapy cannot be stopped after an exacerbation – refer to secondary care.
- Keep dose as low as possible, monitor for osteoporosis and offer prophylaxis.

Criteria for specialist advice

Referral for advice, specialist investigations or treatment may be appropriate at any stage of disease, not just for people who are severely disabled.¹

- Diagnostic uncertainty
- Suspected severe COPD
- Onset of cor pulmonale
- Dysfunctional breathing
- Bullous lung disease
- Rapid decline in FEV₁
- Haemoptysis
- Frequent infections
- The individual requests a second opinion
- Assessment for lung volume reduction surgery or lung transplantation
- Assessment for oxygen therapy, long-term nebuliser therapy or oral corticosteroid therapy
- Symptoms disproportionate to lung function deficit
- Onset of symptoms under 40 years or a family history of alpha-1 antitrypsin deficiency

Theophylline¹

If symptoms of COPD persist after a trial of short-acting and long-acting bronchodilators or if the patient is unable to use an inhaler, oral MR theophylline can be used.³ Prescribe by brand.

Pulmonary rehabilitation

- Pulmonary rehabilitation should be offered to all patients who consider themselves functionally disabled by COPD (usually MRC grade 3 and above).
- Pulmonary rehabilitation is not suitable for patients who are unable to walk, have unstable angina or who have had a recent myocardial infarction.
- Refer patients who need pulmonary rehabilitation to:
 - Suffolk - Care Coordination Centre (CCC). Referral form is available on the IESCCG website (<http://www.ipswichandeastsuffolkccg.nhs.uk>).
 - North East Essex – ACE community Gateway (0300 0032 144)

Mucolytic therapy¹

- Consider in people with a chronic productive cough.
- Only continue if there is symptomatic improvement
- **Step down to maintenance dose (1.5g daily) or stop once condition improves**
- Do not routinely use to prevent exacerbations.

Exacerbations¹

- Give people who have had an exacerbation within the last year and remain at risk of exacerbations a short course of antibiotics and prednisolone tablets to keep at home.
- Monitor the use of these drugs and advise people to contact a healthcare professional if their symptoms do not improve.
- At all review appointments, check they still understand how to use them. For people who have used three or more courses in the last year, investigate possible reasons for this.
- Consider referral to the admission avoidance scheme:
 - Suffolk - Care Coordination Centre (CCC). Referral form is available on the IESCCG website (<http://www.ipswichandeastsuffolkccg.nhs.uk>).
 - North East Essex – ACE community Gateway (0300 0032 144) or direct to COPD service if patient already known

Useful resources

- IESCCG COPD [action plan](#)
- NEECCG COPD [action plan](#)
- Primary Care Respiratory Society ([PCRS-UK](#))