Pharmacological management of chronic obstructive pulmonary disease (COPD)

Key recommendations

- Local commissioning bodies should ensure that up-to-date local guidance is in place for the management of COPD.
- Local guidance should direct prescribers to cost-effective products on the local formulary that will be suitable for most people. It should include a range of inhaler device options, so that the choice can be tailored to the individual's preference, ability to use the inhaler device and <u>environmental considerations</u>.
- The fundamentals of COPD care should be revisited at every review: stop smoking, once-only pneumococcal vaccine, annual influenza vaccine, pulmonary rehabilitation if indicated, co-develop a personalised self-management plan, optimise treatment for comorbidities.
- Where inhaled therapy for COPD is needed for breathlessness and exercise limitation, offer a SABA or SAMA as needed.
- For people with spirometrically confirmed COPD who are limited by symptoms or have exacerbations despite using a short-acting bronchodilator, offer either:
- » LAMA + LABA inhaler, if they do not have asthmatic features or features suggesting steroid responsiveness, or
- » LABA + ICS inhaler, if they do have asthmatic features or features suggesting steroid responsiveness.
- Before escalating treatment to LAMA + LABA + ICS (triple therapy) inhaler, undertake a clinical review to ensure non-pharmacological treatments are optimised and worsening symptoms are not caused by another condition.
- Triple therapy with LAMA + LABA + ICS inhaler should be:
- » offered to people on LABA + ICS that continue to have, either symptoms that adversely impact quality of life or one severe or two moderate exacerbations within a year
- » considered for people on LAMA + LABA inhaler who have one severe or two moderate exacerbations within a year
- » considered for a three month trial for people on LAMA + LABA inhaler who do not fit the exacerbation criteria, but continue to have day to day symptoms that adversely impact on quality of life. Revert to LAMA + LABA inhaler if there is no improvement.

- Clinicians should minimise the number of inhalers and the number of different types of inhaler used by each person as far as possible.
- Consideration of adherence and a review of inhaler technique should be part of medication reviews for people with COPD. Importantly, these factors should be considered before concluding that current therapy is insufficient.
- Prescribe long-acting drugs by brand and device to ensure that people receive inhalers they have been trained to use.
- Do not routinely prescribe mucolytics to prevent exacerbations in people with stable COPD.
- Consider mucolytics for people with a chronic cough productive of sputum, commenced as a trial, with an acute prescription issue and planned review. Continue treatment only if there is symptomatic improvement. Prescribers should select the lowest cost preparation that is suitable for the individual.
- People who keep a short course of oral corticosteroids and/or antibiotics at home for use during an exacerbation should know to contact a healthcare professional if they start their self-management course and should be investigated if they use three or more courses in a year.
- Document the reason for continuing ICS in clinical records and review at least annually.
- Delay planned ICS withdrawal during the COVID-19 pandemic and review when updated NICE guidance for COPD or management of COPD during COVID is available.
- Be aware of, and be prepared to discuss with the person, the risk of side effects of ICS, including pneumonia.
- Ensure that steroid cards and steroid emergency cards are issued to appropriate people.⁶ PrescQIPP resource: <u>Implementing the NHS</u> <u>Steroid Emergency Card National Patient Safety Alert (NatPSA)</u>
- Make use of community pharmacy services that can support people in getting the most from their COPD medication. Services include the New Medicines Service (NMS) in England, the NHS Medicines: Care and Review service in Scotland, and Discharge Medication Reviews (DMRs) in Wales.

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Savings available

A 10% reduction in carbocisteine and acetylcysteine prescribing in primary care would represent an annual saving of £1.6 million across England, Wales and Scotland [NHSBSA (August-October 2021) and Public Health Scotland (July-September 2021)]. This equates to £2,306 per 100,000 patients.

Prescribing acetylcysteine generically as acetylcysteine 600mg sugar-free effervescent tablets is the least costly option. If all acetylcysteine prescriptions were written as acetylcysteine 600mg sugar free effervescent tablets, this could produce an annual saving of £559,225 across England, Wales and Scotland [NHSBSA (August-October 2021) and Public Health Scotland (July-September 2021)]. This equates to £796 per 100,000 patients.

Liquid preparations of azithromycin and carbocisteine are expensive compared to solid dosage forms. Switching 50% of prescriptions for azithromycin and carbocisteine suspensions or solutions to capsules or tablets could save £566,650 annually across England, Wales and Scotland [NHSBSA (August-October 2021) and Public Health Scotland (July-September 2021)]. This equates to £806 per 100,000 patients.

Carbocisteine tablets are available in 375mg and 750mg strengths. Prescribing the lower strength tablet is more cost effective. **Switching all** carbocisteine 750mg tablets to two 375mg tablets could save £271,516 annually across England, Wales and Scotland [NHSBSA (August-October 2021) and Public Health Scotland (July-September 2021)]. This equates to £386 per 100,000 patients.

Additional resources available		Bulletin	https://www.prescqipp.info/our-resources/bulletins/bulletin-283-copd/
	×	Tools	
	u.	Data pack	https://data.prescqipp.info/?pdata.u/#/views/B283_COPDupdate/FrontPage?:iid=1

Support with any queries or comments related to the content of this document is available through the PrescQIPP help centre https://help.prescqipp.info

This document represents the view of PrescQIPP CIC at the time of publication, which was arrived at after careful consideration of the referenced evidence, and in accordance with PrescQIPP's quality assurance framework.

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