Guidance on Inhaled Therapies: Chronic Obstructive Pulmonary Disease (COPD)



How to use this guidance

- ! This guideline should be used to support new patients being commenced on therapy or those requiring treatment to be stepped up or down.
- ! Inhaler switches should only take place if clinically appropriate after a review.
- ! Inhalers should be prescribed by brand name, except for salbutamol.
- ! Combination inhalers should be used where appropriate.

Choosing the right device

- Inhaler technique and adherence should be checked at each review and prior to any treatment escalation.
- Choice of device should be based on individual patient inhaler technique including inspiratory flow rate.
- Can the patient inhale
 - Hard and fast = DPI pathway
 - Slow and steady = MDI pathway (encourage spacer use)
- In this guidance, inhalers are given a symbol indicating required inspiratory flow rate:

⊖ pMDI ≈ Med Low 🔤 Medium 🗮 Med High 💐 High

Green Inhaler Prescribing

- As part of NHS Scotland's commitment to greener prescribing, the environmental impact of inhalers has been examined and should be incorporated into prescribing decisions.
- MDIs contain hydrofluorocarbon propellants that are greenhouse gases.
- Over-reliance of salbutamol increases the carbon footprint of a respiratory patient. Therefore, it is
 essential to identify and treat uncontrolled airways disease, encourage preventer adherence, and ensure
 inhaler devices are chosen based on individual inhaler technique to optimise control.
- DPIs have lower estimated carbon footprints than MDIs. Therefore, if a patient is able to use both MDI and DPI they should be given a DPI.
- Ventolin® evohalers have higher CO₂ emissions than other brands of salbutamol.
- In this guidance inhalers are given a symbol to indicate carbon footprint. This symbol indicates a 'greener' choice:



References

Alliance Tech Medical: In-check dial: Inhaler resistance range. Issue number: 3 Available from: <u>In-Check DIAL | Alliance Tech Medical</u>

PrescQIPP Community Interest Company. Lowering the Inhaler Carbon Footprint. Bulletin 295; 2021. Available from: Respiratory care | PrescQIPP C.I.C

Global Initiative for Chronic Obstructive Lung Disease (GOLD) 2023: Global strategy for prevention, diagnosis and management of COPD: 2023 Report. Available from https://goldcopd.org/2023-gold-report-2/



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