

- Diagnosis should be confirmed with History and spirometry
- Management – Offer smoking cessation, pneumococcal and annual influenza vaccination. Offer Pulmonary Rehabilitation if appropriate (forms available in the OCCG [pro forma library](#)); *repeat attendance may be appropriate*. Consider Oxygen referral via COPD clinic if saturations below 92%
- Standby antibiotics and oral corticosteroids for frequent exacerbator patients (advice can be found here).

Inhaler Prescribing Advice

Prescribe according to **inspiratory flow** (measure of a patient's inspiratory effort) Use In-Check device, guidance how to assess here. Check inhaler technique with every device used and **any change** in device (promotional videos on inhaler technique available online). Check inspiratory flow at all reviews Prescribe by brand name to avoid confusion. Refer to BNF/individual Summary of Product Characteristics (SPC) for full prescribing details

Asthmatic features/features suggesting steroid responsiveness

- Previous diagnosis of asthma or atopy
- A higher blood eosinophil count
- Variation in FEV1 over time (at least 400ml)
- Substantial diurnal variation in PEF (at least 20%)

No Asthmatic features/features suggesting steroid responsiveness

- No previous diagnosis of asthma or atopy
- eosinophil count < 0.1 x10⁹ /L
- No variation in FEV1 over time (at least 400ml)
- No substantial diurnal variation in PEF (at least 20%)

Prescribe device according to inspiratory flow (use In Check device)– check inhaler technique with every device used

LOW Inspiratory Flow

<30L/min
Prescribe Metered Dose Inhalers (MDI)
'Long and Slow'

HIGH Inspiratory Flow

>30L/min
Prescribe Dry Powder Inhalers (DPI)
'Quick and fast'

LOW Inspiratory Flow

<30L/min
Prescribe Metered Dose Inhalers (MDI)
'Long and Slow'

HIGH Inspiratory Flow

>30L/min
Prescribe Dry Powder Inhalers (DPI)
'Quick and fast'

Mild disease and short term symptom relief - OFFER Short Acting β_2 Agonist (SABA) FOR USE AS REQUIRED

Salbutamol 100 microgram MDI
1-2 puffs prn up to QDS

Easyhaler® Salbutamol 100microgram
1-2 puffs prn up to QDS
OR
Bricanyl Turbohaler®500 microgram
1 puff prn up to QDS

Salbutamol 100 microgram MDI
1-2 puffs prn up to QDS

Easyhaler® Salbutamol 100 microgram
1-2 puffs prn up to QDS
OR
Bricanyl Turbohaler®500 microgram
1 puff prn up to QDS

Patient limited by symptoms or has exacerbations despite treatment

Add **ICS/ LABA** (Inhaled Corticosteroid and Long Acting Beta Agonist. Ensure patient aware of risk of ADRs including pneumonia and given steroid card if appropriate

Fostair® MDI 100/6 microgram
2 puffs BD
OR
Symbicort® MDI 200/6 microgram
2 puffs BD

Symbicort Turbohaler®200/6 micrograms
2 puffs BD
Or
Relvar Ellipta 92 /22micrograms
1 puff OD

Add **LAMA/LABA** (Long Acting Antimuscarinic/Long Acting Beta Agonist) combination

Spiolto Respimat®
2.5/2.5microgram
2 puffs OD

Duaklir Genuair® 340 /12microgram
1 puff BD
OR
Anoro Ellipta® 55 /22microgram
1 puff OD

Ongoing symptoms and/or increase in exacerbations

Add Long Acting Antimuscarinic (LAMA) either as a Triple therapy device **OR** single agent device in addition to LABA/ICS.

Trimbow® MDI
87/5/9 micrograms
2 puffs BD

OR Spiriva Respimat®
2.5microgram
2 puffs OD **plus LABA/ICS device**

Trelegy Ellipta®
92 /55/22 micrograms
1 puff OD

OR Eklira Genuair® 322 microgram - 1 puff BD plus LABA/ICS device
OR
Incruse Ellipta® 55 microgram - 1 puff OD **plus LABA/ICS device**

Consider **trial** of inhaled corticosteroid (3 month trial, revert if no improvement). Use a triple inhaler (stop LAMA/LABA device) Ensure patient aware of risk of ADRs including pneumonia and given steroid card if appropriate

Trimbow® MDI
87/5/9 micrograms
2 puffs BD

Trelegy Ellipta®
92 /55 /22 micrograms
1 puff OD

For patients currently stable on LAMA or LABA alone, the following products remain available on formulary

LABA MDI

Atimos Modulite® 12microgram MDI 1 puff BD

OR

Striverdi Respimat® 2.5 microgram 2 puffs OD

LABA DPI

Oxis 12 microgram Turbohaler® - 1 puff OD or BD

OR

Formoterol 12microgram Easyhaler® 1 puff BD

LAMA MDI

Spiriva Respimat®2.5microgram 2 puffs OD




















LAMA DPI

Elkira Genuair® 322micrograms 1 puff BD

OR

Incruse Ellipta® 55micrograms 1 puff OD

Specialist opinion suggests promoting the use of a spacer for all MDI prescribing and confirming technique. Please note not all MDI devices are licensed for use with a spacer. Respimat devices are not licensed for use with a spacer.

CLASS	Metered Dose Inhalers (MDI)	Dry Powder Inhalers (DPI)
SABA	Ventolin Evohaler® 100mcg/dose (salbutamol) <i>(£1.50 per 200 doses)</i> 	Bricanyl Turbohaler® 500mcg/dose (terbutaline) <i>(£6.92 per 100 doses)</i> OR Easyhaler Salbutamol 100mcg/dose (Please note: easyhaler device has high resistance) <i>(£3.31 per 200 doses)</i>  
LAMA	Spiriva Respimat® 2.5mcg/dose (tiotropium) <i>(£23.00 per 30 days)</i> 	Eklira Genuair® 322mcg/dose (aclidinium) ▼ <i>(£32.50 per 30 days)</i> OR Incruse Ellipta® 55mcg/dose (umeclidinium) ▼ <i>(£27.50 per 30 days)</i>  
LABA	Atimos Modulite® pMDI 12mcg/dose (formoterol) <i>(£18.04 per 30 days)</i> OR Striverdi Respimat® 2.5mcg/dose (olodaterol) ▼ <i>(£26.35 per 30 days)</i>  	Oxis 12mcg Turbohaler® (formoterol) <i>(£24.80 per 30 days (based on 1 puff BD))</i> OR Formoterol Easyhaler 12mcg/dose (Please note: easyhaler device has high resistance) <i>(£11.88 per 30 days)</i>  
LAMA/LABA	Spiolto Respimat® 2.5/2.5mcg.dose (tiotropium/olodaterol) ▼ <i>(£32.50 per 30 days)</i> 	Duaklir Genuair® 340/12mcg/dose (aclidinium/formoterol) ▼ <i>(£32.50 per 30 days)</i> OR Anoro Ellipta® 55/22mcg/dose (umeclidinium/vilanterol) ▼ <i>(£32.50 per 30 days)</i>  
ICS/LABA	Fostair® 100/6mcg pMDI (beclometasone/formoterol) <i>(£29.32 per 30 days)</i> OR Symbicort® 200/6mcg pMDI (budesonide/formoterol) <i>(£28.00 per 30 days)</i>  	Symbicort Turbohaler® 200/6mcg (budesonide/formoterol) <i>(£28.00 per 30 days)</i> OR Relvar Ellipta® 92/22mcg (fluticasone furoate/vilanterol) ▼ <i>(£22.00 per 30 days)</i>  
ICS/LAMA/LABA	Trimbow® 87 micrograms/5 micrograms/9 micrograms (beclometasone/formoterol/ glycopyrronium) <i>£44.50 per 30 days</i> 	Trelegy Ellipta® 92 micrograms/55 micrograms/22 micrograms (fluticasone furoate/umeclidinium/vilanterol) ▼ <i>£44.50 per 30 days</i> 

▼ Denotes medicines intensively monitored by the Commission on Human Medicines (CHM) and the MHRA

*Prices obtained from Drug Tariff July 19