














Inhalers for asthma and COPD-ensure your patient has the right device delivering the right drug at the right dose

	Device	Drug	Adult dose	Doses	Licensed <18yrs?	Cost per inhaler	Notes
SABA Short acting beta agonist							
	Ventolin 	Salbutamol 100mcg/dose	1-2 puffs PRN for relief, max 8 puffs in 24 hours	200	Yes	£1.50	Often overused with poor technique Do not use 2puffs qds as dosage. Should be two puffs when breathless, max 8 in 24 hrs Often disposed of before empty.
Preferred product	Easyhaler salbutamol 	Salbutamol 100 or 200 mcg	1-2 puffs (100mcg) PRN for relief, max 8 puffs in 24 hours	200	Not under 4 years	£3.31 £6.63	Dry powder salbutamol Easyhaler available in two strengths. More expensive than MDI but often used with better technique for better lung deposition. Dose counter so tells you when empty.
	Bricanyl turbohaler 	Terbutaline 500mcg/dose	1 puff prn for relief, max 4/day	100	Yes	£6.92	Dry powder inhaler. Option to salbutamol
LABA Long acting beta agonist							
Preferred product	Atimos Modulite 	Formoterol 12mcg/dose	1 puff bd	100	Over 12 years in asthma, 18 years in COPD	£30.06	Asthma or COPD. Available as MDI or dry powder Fast onset of action.
	Formoterol Easyhaler DPI 			120	Over 6 yrs only	£23.75	Easyhaler-Dry powder




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	Oxis Turbohaler 	Formoterol 6mcg/dose 12mcg/dose		60	6 years plus	£24.80 £24.80	
	Onbrez Breezhaler® 	Indacaterol 150mcg/300mcg /dose	COPD only 150 or 300mcg od	30	No	£32.19	COPD ONLY Once daily dose dry powder
	Striverdi®Respimat® solution for inhalation 	Olodaterol 2.5mcg/dose	COPD only 2 puffs OD	60	NO	£26.35	COPD ONLY Once daily pressurised mist
Preferred product	Soltel®mdl 	Salmeterol 25mcg/dose	Asthma and COPD 2puffs bd	120	12 years plus	£19.95	Contains soya lecithin, patients with nut allergy should avoid. Cost effective alternative to Serevent
	Serevent Evohaler 	Salmeterol 25mcg/dose	Asthma and COPD 2 puffs bd	120	4 years plus 4 years plus	£29.26	Asthma and COPD Slower onset of effect than formoterol





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	and Accuhaler 	Salmeterol Accuhaler 50mcg/dose	1 puff bd	60	in asthma	£29.26	
SAMA Short acting muscarinic antagonist							
	Atrovent inhaler 	Ipratropium 20mcg/dose	Asthma and COPD 1-2 puffs tds or qds	200	6 years plus	£5.56	Asthma and COPD. In COPD use in mild disease as long acting agents are better for symptom control
LAMA Long acting muscarinic antagonist							
	Eklira® Genuair® DPI 	Acclidinium 400mcg/dose	COPD only 1 puff BD	60	No	£32.60	COPD only Twice daily dry powder




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	Seebri® Breezhaler® DPI 	Glycopyrronium 50 mcg /dose	<u>COPD only</u> 1 puff OD	30	No	£27.50	COPD only Once daily dry powder
	Incruse® Ellipta® DPI 	Umeclidinium 55mcg/dose	<u>COPD only</u> 1 puff OD	30	NO	£27.50	COPD only. Once daily dry powder
Preferred product	Braltus Zonda DPI 	Tiotropium 13mcg/dose 10mcg delivered dose	<u>COPD only</u> 1 dose daily	30	No	£25.80*	*Cost effective alternative to Spiriva Handihaler, COPD only




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Spiriva® RespiMat® solution for inhalation 	Tiotropium 2.5mcg/dose	Asthma and COPD 2 puffs OD	60	NO	£23.00	License recently extended to cover asthma add-on maintenance bronchodilator treatment in adult patients with asthma who are currently treated with the maintenance combination of inhaled corticosteroids (≥800 µg budesonide/day or equivalent) and long-acting β2 agonists and who experienced one or more severe exacerbations in the previous year.
Spiriva® Handihaler® DPI 	Tiotropium 18mcg/dose 10mcg delivered dose	COPD only 1 dose od	30	NO	£34.87 Handihaler £33.50 Refill	Remember patients with emphysematous profile and hyper inflated lungs may find it more difficult to inhale effectively from powder devices
LABA/ LAMA combo						
Duaklir® Genuair® DPI 	Aclidinium/ Formoterol 340/12 mcg/puff	COPD only 1 puff BD	60	No	£32.50	COPD only
Ultibro Breezhaler® DPI 	Glycopyrronium/ ndacaterol 85/43mcg/puff	COPD only 1 puff od	30	NO	£32.50	COPD ONLY. Capsule has to be inserted into device. Once daily dry powder




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	Spiolto Respimat mist 	Tiotropium /olodaterol 2.5mcg/dose	COPD only 2 puffs od	60	NO	£32.50	COPD only. Once daily pressurised mist
	Anoro Ellipta® DPI 	Umeclidinium / Vilanterol 55/22 mcg /puff	COPD only 1 puff OD	30	NO	£32.50	COPD only. Once daily dry powder
	Bevespi® Aerosphere MDI 	Glycopyrronium / Formoterol 7.2/5mcg / puff	COPD only 2 puffs BD	120	NO	£32.50	COPD only.
LABA/ICS combo							
Preferred product	Fobumix Easyhaler DPI	Budesonide / formoterol 80/4.5mcg/dose	Asthma only 1-2 puffs bd	120	No	£21.50	Maintenance and reliever therapy: 2 inhalations daily, as a single or divided dose, with additional 1 — 2 inhalations to relieve symptoms as needed; max 6 inhalations on any single occasion. Reassess maintenance therapy if total daily dose exceeds 8 inhalations; 12 inhalations daily can be used for a




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							limited period.
		Budesonide / formoterol 160/4.5mcg/dose	Asthma 1-2 puffs bd COPD 2 puffs bd	120	No	£21.50	MART as above Avoid 60 dose inhalers. 120 dose more cost effective
		Budesonide / formoterol 320/9mcg/dose	Asthma 1-2 puffs bd COPD 1 puff bd	60	No	£21.50	No MART license
Preferred product	Fusacomb Easyhaler DPI 	Fluticasone/ Salmeterol 250/50 500/50	Asthma and COPD 1 puff bd	60	Not under 12 years asthma	£21.50 £26.99	Cost effective alternative to Seretide Accuhaler and Airflusal Forspiro. Stalpex is most cost effective for 50/500 strength.
		Duoresp® Spiromax® DPI Budesonide/ Formoterol 160/4.5 mcg /dose	Asthma 1-2 puffs BD (Max 8 puffs/day in maintenance and reliever therapy.) COPD 2 puffs BD	120	NO	£27.97	Dry powder. Equivalent to Symbicort Turbohaler 200/6mcg. Can be used for Maintenance and Reliever Therapy in asthma. In COPD where FEV1 < 50% especially frequent exacerbators
		320/9 mcg /dose	Asthma 1-2 puffs BD (max 8 puffs/d in maint and reliever therapy.) COPD 1puff BD	60	NO	£27.97	Equivalent to Symbicort Turbohaler 400/12mcg. Not licensed in maintenance and reliever therapy In COPD where FEV1 < 50%




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		Budesonide/ Formoterol 100/6 mcg /puff	Asthma 1-2 puffs BD. (max 12 puffs/d in SMART therapy for very limited period) COPD 2 puffs BD	120	YES- Asthma OVER 6yrs ONLY MART from 12 years	£28	Dry powder. Can be used for maintenance and reliever therapy. In COPD where FEV1 < 50% especially frequent exacerbators
		200/6 mcg	Asthma 1-2 puffs BD (max 12 puffs/d in SMART therapy as above) COPD 2puffs BD	120	Asthma- yes from 12 years MART from 12 years	£28	In COPD where FEV1 < 50%
		400/12 mcg	Asthma 1-2 puffs BD COPD 1puff BD	60	NO	£28	Maintenance ONLY- NOT LICENSED for reliever therapy. In COPD where FEV1 < 50% especially in frequent exacerbators
Preferred product		Fluticasone /salmeterol 50/25mcg 125/25 mcg 250/25 mcg	Asthma only 2 puffs bd	120	YES 4 yrs and above	£13.50. £17.59 £29.89	All three strengths available. Dose counter. 4-11 yrs 50/25 mcg only. 12yrs and above adult dose Low dose 50/25 is £4.50 per inhaler cheaper than Seretide
Preferred product		Fluticasone/ Salmeterol 125/25mcg 250/25mcg	Asthma only 2 puffs bd	120	No	£14.99 £19.99	No 50/25mcg available. Dose counter included Most cost effective fluticasone/salmeterol MDI
		Fluticasone/ Salmeterol 125/25mcg 250/25mcg	Asthma only 2 puffs bd	120	No	£16.42 £20.52	No 50/25mcg available. Dose counter included Sereflo is most cost effective fluticasone/salmeterol MDI





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 <p>Symbicort pMDI</p>	200/6mcg/puff	COPD only 2puffs bd	120	NO	£28	Symptomatic treatment of COPD with a post-bronchodilator FEV ₁ <70% predicted and a history of exacerbations despite regular bronchodilator therapy.
 <p>Fostair® MDI</p>	Beclometasone/ formoterol 100/6mcg/dose	Asthma 1-2 puffs bd (max 8 puffs/d in maint and reliever therapy.) COPD 2 puffs bd	120	NO	£29.32	MDI. Patients not adequately controlled with ICS + PRN SABA or those already controlled on ICS + LABA. Maintenance and reliever therapy (100/6 only). N.B. 200mcg Fostair Equivalent to 500mcg BDP Recently licensed in COPD where FEV ₁ < 50%
	200/6mcg/dose	Asthma only 2 puffs bd no MART	120	No	£29.32	
 <p>Fostair® NEXThaler® DPI</p>	Beclometasone/ formoterol 100/6mcg/dose	Asthma 1-2 puffs bd. Licensed for MART COPD 2 puffs bd	120	NO	£29.32	Patients not adequately controlled with ICS + PRN SABA or those already controlled on ICS + LABA. N.B. 200mcg. Fostair Equivalent to Dry powder. 500mcg BDP. NOT licensed to treat asthma attacks.
	200/6mcg/dose	Asthma only 2p bd, no MART	120	NO	£29.32	




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Preferred product	Flutiform® MDI 	Fluticasone /formoterol 50/5, 125/5 250/10mcg	Asthma only 2 puffs bd	120	Yes, 50/5 from 5years, 125/5 from 12 years	£14.40 £28 £45.56	Asthma only, cost effective alternative to Seretide in 125 and 250 strengths only, formoterol has faster onset than salmeterol 50/5 Good starting dose for first stage LABA/ICS Please note big difference in price between strengths. Combisal is more cost effective at higher doses
	Flutiform K-haler breath actuated MDI 	Fluticasone /formoterol 50/5, 125/5	Asthma only	120	Yes, 50/5 from 5years, 125/5 from 12 years	£14.40 £28	The only breath actuated ICS/LABA combination inhaler. Please note big difference in price between two strengths. *Flutiform K-haler is being discontinued in April 2021.*
	Relvar®Ellipta® DPI 	Fluticasone/ Vilanterol 92/22 mcg /dose 184/22 mcg /dose	Asthma 1 puff OD COPD 1 p od Asthma only 1 puff OD	30	YES- Asthma OVER 12 yrs ONLY	£22 £29.50	Once daily dry powder. In COPD where FEV1 < 70% OR Asthma at high dose Once daily dry powder. Asthma ONLY




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	 <p>Seretide Evohaler MDI</p>	Fluticasone /salmeterol 50/25, 125/25 and 250/25mcg	Asthma only 2 puffs bd	120	Four years plus	£17.46 £23.45 £29.32	MDI. Asthma only. Salmeterol slower onset than formoterol Sereflo is most cost effective fluticasone/salmeterol MDI
	 <p>Seretide Accuhaler DPI</p>	Fluticasone /salmeterol 100/50, 250/50 and 500/50mcg	Asthma 1 puff bd COPD 1 p bd	60	Four years plus (100mcg only)	£17.46 £33.95 £32.74	Asthma and COPD. Seretide is indicated for the symptomatic treatment of patients with COPD, with a FEV ₁ <60% predicted normal (pre-bronchodilator) and a history of repeated exacerbations, who have significant symptoms despite regular bronchodilator therapy. Fusacomb Easyhaler is more cost effective. Stalpex is most cost effective for 50/500 strength.
	 <p>AirFluSal Forspiro DPI</p>	Fluticasone /salmeterol 500/50mcg	Asthma 1 puff bd COPD 1 p bd	60	No	£32.74	Dry powder, COPD and asthma. Only high strength available Stalpex is more cost effective.
Preferred product	 <p>Stalpex DPI</p>	Fluticasone /salmeterol 500/50mcg	Asthma 1 puff bd COPD 1 p bd	60	Asthma over 12 years only	£24.56	Dry powder, COPD and asthma. Only high strength available Most cost effective 500/50mcg DPI





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Sirdupla MDI 	Fluticasone /salmeterol 125/25 and 250/25mcg	Asthma only 2 puffs bd	120	No	£26.25 £44.61	MDI for Asthma only. No 50/25mcg strength available Sereflo is most cost effective fluticasone/salmeterol MDI
Ateectura® Breezhaler 	Indacaterol / Mometasone 125/62.5mcg, 125/127.5mcg and 125/260mcg	Asthma only 1 capsule to be inhaled once daily	30	12 years plus	£17.49 £21.50 £27.97	Ateectura Breezhaler is indicated as a maintenance treatment of asthma in adults and adolescents 12 years of age and older not adequately controlled with inhaled corticosteroids and inhaled short-acting beta2-agonists.
Triple inhalers LABA/LAMA/ICS						
Trelegy Ellipta ▼ 	Vilanterol 22mcg Fluticasone furoate 92mcg Umeclidinium 55mcg	COPD only One puff daily	30	No	£44.50	Single daily dose dry powder May deliver 1000mcg BDP equivalent steroid




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	Formoterol 5mcg Beclometasone 87mcg Glycopyrronium 9mcg	<u>COPD only</u> 2 puffs bd	120	No	£44.50	In other devices glycopyrronium is given as a once daily dose. This inhaler gives a similar overall dose in 2puffs bd May deliver around 400mcg BDP equivalent per day
	Formoterol 5mcg Glycopyrronium 7.2mcg Budesonide 160mcg	<u>COPD only</u> 2 puffs BD	120	No	£44.50	Maintenance treatment of moderate to severe COPD where an inhaled corticosteroid plus a long-acting β 2-agonist, or a long-acting anticholinergic plus a long-acting β 2-agonist, is inadequate
	Indacaterol 114mcg Glycopyrronium 46mcg Mometasone 136mcg	<u>Asthma only</u> 1 capsule to be inhaled once daily	30	No	£44.50	Enerzair Breezhaler is indicated as a maintenance treatment of asthma in adult patients not adequately controlled with a maintenance combination of a long-acting beta2-agonist and a high dose of an inhaled corticosteroid who experienced one or more asthma exacerbations in the previous year.
Inhaled corticosteroids (ICS)						

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Easyhaler Budesonide 	Budesonide 100mcg 200mcg 400mcg	Asthma only Initially 200-400mcg OD, increasing if necessary to 800-1600mcg OD. Maintenance 100-400mcg BD or 200-400mcg OD in steroid naïve patients.	200 200 100	6 years plus	£8.86 £17.71 £17.71	
Kelhale 	Beclometasone 50mcg 100mcg	Asthma only <u>Kelhale and Qvar doses:</u> Mild asthma 100-200mcg daily in two divided doses	200	No, adults only	£5.20 £5.20	Beclometasone inhalers should be prescribed by brand name since they are not interchangeable. Qvar and Kelhale have extra-fine particles and are more potent than traditional beclomethasone dipropionate CFC-containing inhalers, therefore total daily doses are lower than other inhaled BDP products such as Clenil Modulite and Soprobec. Asthma only Kelhale is cost effective alternative to Qvar aerosol mdi
Qvar Aerosol MDI 	Beclometasone 50mcg 100mcg	Moderate asthma 200-400mcg daily in two divided doses	200	12 years plus	£7.87 £17.21	
Qvar Autohaler breath-actuated MDI 	Beclometasone 50mcg 100mcg	Severe asthma 400-800mcg daily in two divided doses	200	12 years plus	£7.87 £17.21	

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<p>Qvar Easi-Breathe breath-actuated MDI</p> 	<p>Beclometasone Qvar Easi-Breathe 50mcg 100mcg</p>		200	12 years plus	<p>£7.74 16.95</p>	Breath-actuated MDI
<p>Soprobec MDI</p> 	<p>Beclometasone 50mcg 100mcg 200mcg 250mcg</p>	<p><u>Soprobec and Clenil Modulite doses:</u></p>	200	Yes	<p>£2.78 £5.57 £12.13 £12.22</p>	Soprobec is cost effective alternative to Clenil Modulite
<p>Clenil Modulite MDI</p> 	<p>Beclometasone 50mcg 100mcg 200mcg 250mcg</p>	<p>Initially 200mcg BD, increasing if necessary to max 2g daily in two to four divided doses (use Volumatic spacer for total daily doses of 1g or greater)</p>	200	Yes	<p>£3.70 £7.42 £16.17 £16.29</p>	