

### Greener inhaler alternatives – Medicines Optimisation tool for adults

This tool should be used as an aid to guide clinicians on prescribing alternative lower carbon-emitting inhalers. **Inhalers should only be changed after a patient-centred consultation, taking into account patient preference, inhaler technique and compliance.** This aid should be used in conjunction with an inhaler device decision aid (patients switching to a dry powder inhaler must be able to breathe in quickly and deeply over 2-3 seconds.) Consider using an InCheck dial to assess inspiratory flow ability.

Higher carbon footprint inhaler	Lower carbon footprint alternative	Different device?	Different drug?	Different dose?	Estimated cost impact per inhaler (+ = more expensive)	Carbon Footprint saving (kg CO <sub>2</sub> / inhaler)	Inhaler technique link
Ventolin Evohaler / Salbutamol Generic pMDI	Salamol pMDI	No	No	No	Neutral	16.31 (Ventolin) 13.29 (Generic)	N/A
Ventolin Evohaler / Salbutamol Generic pMDI	Salbutamol Easyhaler DPI	Yes	No	No	+£1.81	27.64 (Ventolin) 24.62 (Generic)	<a href="#">How to use an Easyhaler inhaler   Asthma UK</a>
Fostair pMDI (Beclometasone extra fine/ formoterol) 100/6 2 puffs BD 200/6 2 puffs BD	Fostair NEXThaler DPI 100/6 2 doses BD 200/6 2 doses BD	Yes	No	No	Neutral	10.4 (100/6) 13.3 (200/6)	<a href="#">How to use a NEXThaler inhaler   Asthma UK</a>
	OR Fobumix Easyhaler DPI (Budesonide / formoterol) 160/4.5 2 puffs BD 320/9 2 puffs BD	Yes	Yes	Yes (But ICS equivalent dose)	-£7.82	10.8 (100/6) 13.7 (200/6)	<a href="#">How to use an Easyhaler inhaler   Asthma UK</a>
Clenil Modulite pMDI (Beclometasone) 100mcg/puff 2 puffs BD 200mcg/puff 2 puffs BD	Budesonide Easyhaler DPI 100mcg/puff 2 doses BD	Yes	Yes	No	+£1.44 (100mcg)	15.9 (100mcg)	<a href="#">How to use an Easyhaler inhaler   Asthma UK</a>
	200mcg/puff 2 doses BD				+£1.54 (200mcg)	15.7 (200mcg)	

Consider referral to New Medicines Service in Community Pharmacy. Follow up in 4-6 weeks.

Higher carbon footprint inhaler	Lower carbon footprint alternative	Different device?	Different drug?	Different dose?	Estimated cost impact per month (+ = more expensive)	Carbon Footprint saving (kg CO2 per inhaler)	Inhaler technique link
<b>Trimbow pMDI</b> 87/5/9 2 puffs BD	<b>Trimbow NEXThaler DPI</b> 88/5/9 2 doses BD	Yes	No	No	Neutral	13.3	<a href="#">How to use a NEXThaler inhaler   Asthma UK</a>
Fluticasone propionate / salmeterol. As: <b>Seretide Evohaler 50 pMDI</b> 2 puffs BD	<b>Seretide Accuhaler 100 DPI</b> 1 dose BD	Yes	No	No	Neutral	17.3	<a href="#">How to use an Accuhaler inhaler   Asthma UK</a>
	<b>OR Fostair NEXThaler DPI</b> (Beclometasone extra fine /Formoterol) <b>100/6</b> 1 dose BD	Yes	Yes	Yes	-£11.86	17.3	<a href="#">How to use a NEXThaler inhaler   Asthma UK</a>
Fluticasone propionate / salmeterol. As: <b>Seretide Evohaler 125/ Sereflo 125 / Sirdupla 125 pMDIs</b> 2 puffs BD	<b>Seretide Accuhaler 250 DPI</b> 1 dose BD	Yes	No	No	+£10.50 Seretide	18.5 (Seretide / Sirdupla) 15.5 (Sereflo)	<a href="#">How to use an Accuhaler inhaler   Asthma UK</a>
	<b>OR Fostair NEXThaler DPI</b> (Beclometasone extra fine /Formoterol) <b>100/6</b> , 2 puffs BD	Yes	Yes	Yes	+£5.87 Seretide	17.3 (Seretide / Sirdupla) 14.3 (Sereflo)	<a href="#">How to use a NEXThaler inhaler   Asthma UK</a>
Fluticasone propionate / salmeterol. As: <b>Seretide Evohaler 250 Sereflo 250 / Sirdupla 250 pMDIs</b> 2 puffs BD	<b>Seretide Accuhaler 500 DPI</b> 1 dose BD	Yes	No	No	+ £3.42 Seretide	18.6 (Seretide / Sirdupla) 15.4 (Sereflo)	<a href="#">How to use an Accuhaler inhaler   Asthma UK</a>
	<b>OR Fostair NEXThaler DPI</b> <b>200/6</b> , 2 doses BD	Yes	Yes	Yes	Neutral	17.3 (Seretide / Sirdupla) 14.5 (Sereflo)	<a href="#">How to use a NEXThaler inhaler   Asthma UK</a>

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**Bedfordshire, Luton  
and Milton Keynes**  
Integrated Care Board

Costs and carbon footprint data from Presquipp Bulletin 295: Inhaler carbon footprint; Inhaler carbon footprint data 2.19.xls <https://www.prescgipp.info/our-resources/bulletins/bulletin-295-inhaler-carbon-footprint/> Accessed 13.1.23.

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