








GMMM COPD Formulary Inhaler Options – September 2018

BNF 3.1.1 – Adrenoceptor agonists (SABA)





	Salbutamol	Salbutamol	Terbutaline
Brand name	Airomir®	Ventolin® Evohaler	Bricanyl® Turbohaler
Device	MDI	MDI	Dry powder
			
Strengths	100 microgram	100 microgram	500 microgram
Adult COPD dose	1 or 2 puffs as necessary. Max 8 puffs in 24hrs	1 or 2 puffs as necessary. Max 8 puffs in 24hrs	One inhalation as required; max 4 daily.
Steps to use the inhaler – ease of use	<ul style="list-style-type: none"> • The inhalation should be performed sitting or standing, wherever possible. • The protective cap should be removed. • The inhaler should be shaken thoroughly for a couple of seconds before use. • Hold the inhaler upright with your thumb on the base, below the mouthpiece. Breathe out as far as is comfortable. Do not breathe in again yet. • Place the mouthpiece in your mouth between your teeth. Close your lips around it. Do not bite. • Breathe in through your mouth. Just after starting to breathe in, press down on the top of the canister to release a puff of medicine. Do this while still breathing in steadily and deeply. • Hold your breath, take the inhaler from your mouth and your finger from the top of the inhaler. Continue holding your breath for a few seconds, or as long as is comfortable. • If your doctor has told you to take two puffs, wait about half a minute before you take another puff by repeating steps 3 to 7. • After use always replace the mouthpiece cover straight away to keep out dust. Replace the cover by firmly pushing and clicking into position. 		<ul style="list-style-type: none"> • Unscrew the white cover and lift it off. • Hold Turbohaler upright. • Load Turbohaler with a dose, by turning turn the blue grip as far as it will go in one direction. Then turn it as far as it will go in the other. A click will be heard. • Hold Turbohaler away from mouth. Breathe out gently. Do not breathe out through Turbohaler. • Place the mouthpiece gently between your teeth. Close your lips. Breathe in as deeply and as hard as you can through your mouth. Do not chew or bite on the mouthpiece. • Remove Turbohaler from mouth. Then breathe out gently. • Repeat the process if necessary • Replace the cover.
Miscellaneous information	<p>Clean at least once a week.</p> <p>If the inhaler gets very cold, take the metal canister out of the plastic case and warm it in your hands for a few minutes before use</p> <p>Airomir may be used with an AeroChamber® Plus spacer device</p>	<p>Clean at least once a week.</p> <p>If the inhaler gets very cold, take the metal canister out of the plastic case and warm it in your hands for a few minutes before use</p> <p>Ventolin may be used with a Volumatic® spacer device</p>	<p>The duration of action of a single dose is up to 6 hours.</p> <p>When not in use, Bricanyl Turbohaler should be stored with the cover tightened.</p> <p>Wipe the outside of the mouthpiece once a week with a dry tissue.</p> <p>When a red mark first appears in the indicator window under the mouthpiece, there are about 20 doses left.</p>
NHS List Price	£1.97 for 200 puffs	£1.50 for 200 puffs	£8.30 for 100 inhalations

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BNF 3.1.2 – Antimuscarinic bronchodilators (LAMA)

	1 st choice	Alternatives		
	Tiotropium	Aclidinium	Glycopyrronium	Umeclidinium
Brand name	Spiriva Respimat®	Eklira Genuair®	Seebri® Breezhaler®	Incruse Ellipta®
Device	MDI	Dry powder (multi-dose)	Dry powder (capsule)	Dry powder (multidose)
				
Strengths	2.5 microgram	322 microgram	50 microgram	55 microgram
Adult COPD dose	Two puffs (5 microgram) given from the Respimat inhaler once daily, at the same time of the day.	The recommended dose is one inhalation twice daily	Inhalation of the contents of one capsule once daily with the Seebri® Breezhaler® device at the same time of day.	The recommended dose is one inhalation of umeclidinium bromide once daily, at the same time of day
Steps to use the inhaler – ease of use	<p>4 step process</p> <ul style="list-style-type: none"> • Turn inhaler until it clicks to load dose • Inhale whilst pressing the dose release button (co-ordination required) • Hold breath for 10 seconds • Repeat. <p>Inhaler preparation required prior to first use: Load cartridge and prepare cartridge in inhaler – 6 steps</p>	<p>3 step process</p> <ul style="list-style-type: none"> • Press and release button to load dose • Inhale dose • Indicator shows successful inhalation –repeat if necessary 	<p>7 Step process</p> <ul style="list-style-type: none"> • Remove capsule from blister pack • Load capsule into inhaler • Pierce capsule • Inhale powder • Check capsule empty • Repeat inhalation if necessary • Dispose of capsule 	<p>3 step process</p> <ul style="list-style-type: none"> • Slide down cover to load dose • Inhale dose
Miscellaneous information	Dose indicator Locks when empty Clean mouthpiece once a week	Dose counter Locks closed when empty No need to wash	Powder taste and inhaler sound show inhaler working New inhaler with each pack of capsules – no cleaning	Dose counter No need to wash “Click” heard when dose loaded In use shelf-life = 6 weeks
NHS List Price	£23.00 for 60 inhalations (30 day supply)	£28.60 for 60 inhalations (30 day supply)	£27.50 for 30 doses (30 day supply)	£27.50 for 30 doses (30 day supply)


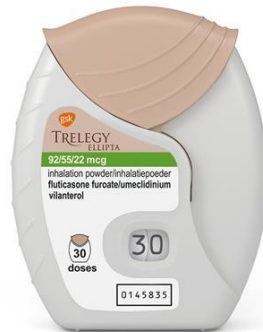
BNF 3.1.4 – Compound bronchodilator preparations (LAMA/LABA)

	Options			
	Step up from glycopyrronium:	Step up from tiotropium:	Step up from aclidinium:	Step up from umeclidinium:
	Glycopyrronium / Indacaterol	Tiotropium / olodaterol	Aclidinium / formoterol	Umeclidinium / vilanterol
Brand name	Ultibro Breezhaler®	Spiolto Respimat®	Duaklir Genuair®	Anoro Ellipta®
Device	Dry powder (capsule)	MDI	Dry powder inhaler	Dry powder inhaler
				
Strengths	85 / 43 microgram	2.5 / 2.5 microgram	340 / 12 microgram	55 / 22 microgram
Adult COPD dose	Inhalation of the content of one capsule once daily using the Ultibro Breezhaler inhaler.	Two puffs (5 microgram) given from the Respimat inhaler once daily, at the same time of the day.	The recommended dose is one inhalation twice daily.	The recommended dose is one inhalation once daily
Steps to use the inhaler – ease of use	<p>7 Step process</p> <ul style="list-style-type: none"> Remove capsule from blister pack Load capsule into inhaler Pierce capsule Inhale powder Check capsule empty Repeat inhalation if necessary Dispose of capsule 	<p>4 step process</p> <ul style="list-style-type: none"> Turn inhaler until clicks to load dose Inhale whilst pressing the dose release button (co-ordination required) Hold breath for 10 seconds Repeat. <p>Inhaler preparation required prior to first use: Load cartridge and prepare cartridge in inhaler – 6 steps</p>	<p>3 step process</p> <ul style="list-style-type: none"> Press and release button to load dose Inhale dose Indicator shows successful inhalation –repeat if necessary 	<p>2 step process</p> <ul style="list-style-type: none"> Slide down cover to load dose Inhale dose Indicator shows successful inhalation
Miscellaneous information	Powder taste and inhaler sound show inhaler working New inhaler with each pack of capsules – no washing	Dose indicator Locks when empty Clean mouthpiece once a week	Dose counter Locks closed when empty No need to wash	Dose counter No need to wash “Click” heard when dose loaded In use shelf-life = 6 weeks
NHS List Price	£32.50 for 30 doses (30 day supply)	£32.50 for 60 doses (30 day supply)	£32.50 for 60 doses (30 day supply)	£32.50 for 30 doses (30 day supply)

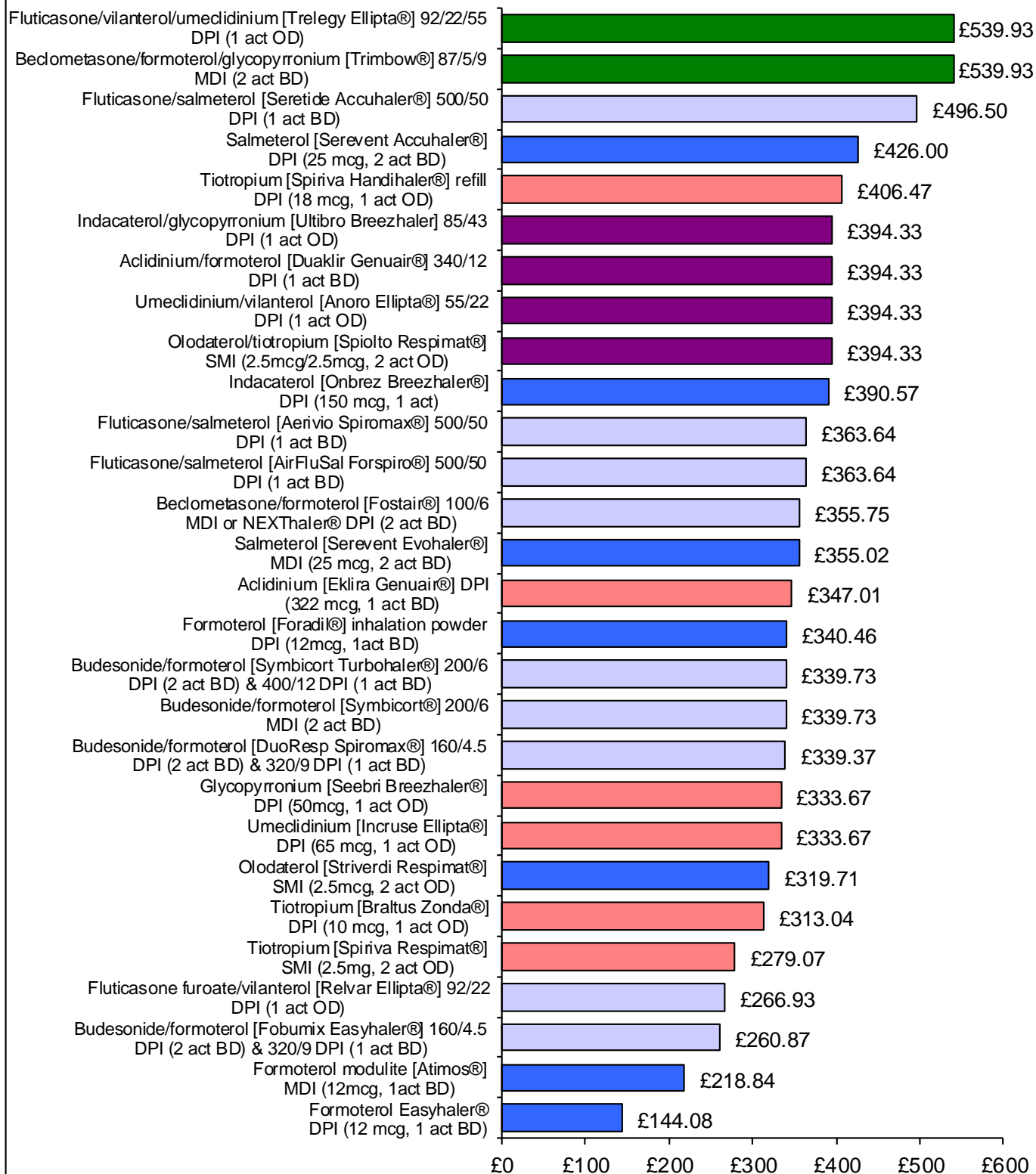
BNF 3.2 – Corticosteroid combination inhalers (ICS/LABA)

	Beclometasone / formoterol	Beclometasone / formoterol	Fluticasone furoate / vilanterol
Brand name	Fostair®	Fostair® NEXThaler	Relvar Ellipta®
Device	MDI	DPI	DPI
			
Strengths	100/6 microgram	100/6 microgram	92/22 microgram
Adult COPD dose	2 inhalations twice a day (can use via AeroChamber Plus spacer) Fostair® 200/6 microgram solution is not indicated for patients with COPD.	2 inhalations twice a day Fostair® NEXThaler 200/6 microgram solution is not indicated for patients with COPD.	One inhalation of 92/22 mcg once daily. Relvar Ellipta®184/22 microgram is not indicated for patients with COPD.
Steps to use the inhaler – ease of use	2 Step process <ul style="list-style-type: none"> • Press top of inhaler canister whilst breathing in to inhale dose (co-ordination required) • Repeat 	3 Step process <ul style="list-style-type: none"> • Open the inhaler • Inhale the dose • Repeat and close the inhaler 	2 Step process <ul style="list-style-type: none"> • Slide down cover to load dose • Inhale dose
Miscellaneous information	Fostair is the only dual combination inhaler which needs to be stored in the fridge (before dispensing only) In use shelf life = 5 months (out of fridge) Suitable for use with the AeroChamber Plus spacer device. Small particle size – 100microgram beclometasone dipropionate (BDP) in Fostair is not equivalent to 100microgram BDP in other inhalers. Fostair contains a small amount of ethanol.	Dose counter Store in the original package in order to protect from moisture. Before first opening the pouch: This medicinal product does not require any special temperature storage conditions. After first opening the pouch: Do not store above 25°C. In use shelf life = 6 months	Dose counter No need to wash “Click” heard when dose loaded In use shelf-life = 6 weeks
NHS List Price	£29.32 for 120 puffs (30 day supply)	£29.32 for 120 puffs (30 day supply)	£22.00 for 30 inhalations (30 day supply)

BNF 3.2 – Corticosteroids combination inhalers (ICS/LABA/LAMA)

	Beclometasone / formoterol / glycopyrronium	Fluticasone / umeclidinium / vilanterol
Brand name	Trimbow®	Trelegy®
Device	MDI	DPI
		
Strengths	87 micrograms/5 micrograms/9 micrograms	92 micrograms/55 micrograms/22 micrograms
Adult COPD dose	2 inhalations twice a day (can use via AeroChamber Plus spacer)	1 inhalation once a day
Steps to use the inhaler – ease of use	2 Step process <ul style="list-style-type: none"> • Press top of inhaler canister whilst breathing in to inhale dose (co-ordination required) • Repeat 	2 step process <ul style="list-style-type: none"> • Open the cover and slide it fully down until a click is heard • Inhale dose
Miscellaneous information	The Trimbow® combination inhaler needs to be stored in the fridge (before dispensing only) In use shelf life = 4 months (out of fridge) Suitable for use with the AeroChamber Plus spacer device. Trimbow contains a small amount of ethanol. Dose counter	Shelf-life after opening the tray: 6 weeks Dose counter
NHS List Price	£44.50 for 120 puffs (30 day supply)	£44.50 for 30 puffs (30 day supply)

August 2018: Inhaled therapy licensed for COPD (ICS/LABA combinations, LABAs, LAMAs, LABA/LAMA combinations & ICS/LABA/LAMA combinations)
- Cost of treatment for 1 year



Doses given do not imply therapeutic equivalence

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