












BNF 3.1.2 - Antimuscarinic Bronchodilators

	1st choice	Alternatives		
	Glycopyrronium	Aclidinium	Umeclidinium	Tiotropium
Brand name	Seebri® Breezhaler®	Eklira Genuair®	Incruse Ellipta®	Spiriva Respimat®
Device	Dry powder (capsule)	Dry powder (multi-dose)	Dry powder (multidose)	MDI
				
Strengths	50 microgram	322 microgram	55 microgram	2.5 microgram
Adult COPD dose	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 twice daily	The recommended dose is one inhalation of umeclidinium bromide once daily, at the same time of day	Two puffs (5 microgram) given from the Respimat inhaler once daily, at the same time of the day.
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>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 	<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>
Miscellaneous information	Powder taste and inhaler sound show inhaler working New inhaler with each pack of capsules - no washing	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	Dose indicator Locks when empty Clean mouthpiece once a week
NHS List Price	£27.50 for 30 doses (30 day supply)	£28.60 for 60 inhalations (30 day supply)	£27.50 for 30 doses (30 day supply)	£23.00 for 60 inhalations (30 day supply)

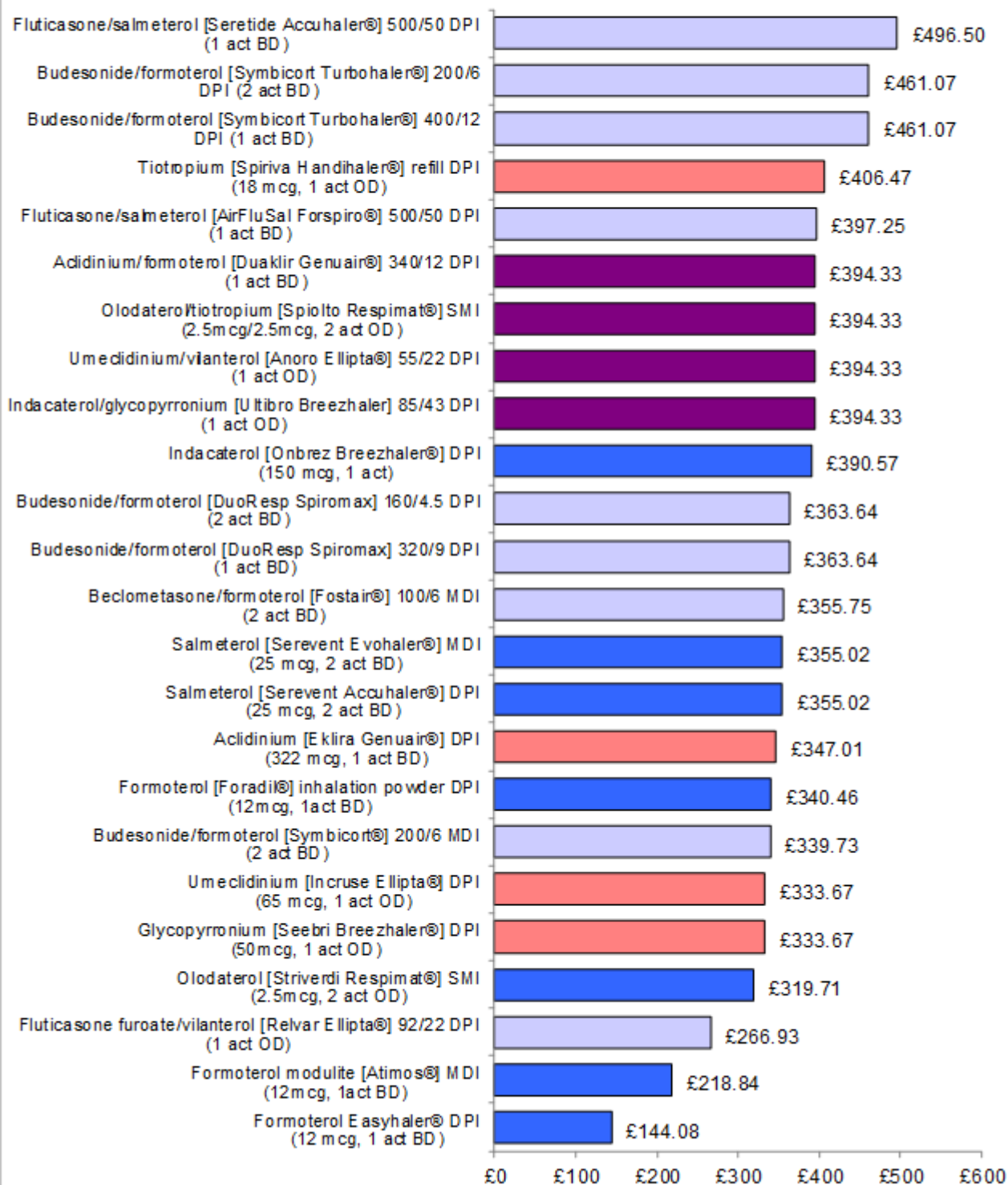
BNF 3.1.4 – Compound Bronchodilator Preparations (LAMA/LABA) - an option where a separate LABA and LAMA inhaler would be prescribed

	Step up from acclidinium:	Step up from umeclidinium:	Step up from glycopyrronium:	Step up from tiotropium:
	Acclidinium / Formoterol	Umeclidinium / Vilanterol	Glycopyrronium / Indacaterol	Tiotropium/Olodaterol
Brand name	Duaklir Genuair®	Anoro Ellipta®	Ultibro Breezhaler®	Spiolto Respimat®
Device	Dry powder inhaler	Dry powder inhaler	Dry powder (capsule)	MDI
				
Strengths	340 / 12 microgram	55 / 22 microgram	85 / 43 microgram	2.5 / 2.5 microgram
Adult COPD dose	The recommended dose is one inhalation twice daily.	The recommended dose is one inhalation once daily	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.
Steps to use the inhaler – ease of use	<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 	<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 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>
Miscellaneous information	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	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
NHS List Price	£32.50 for 60 inhalations (30 day supply)	£32.50 for 30 doses (30 day supply)	£32.50 for 30 doses (30 day supply)	£32.50 for 60 inhalations (30 day supply)

BNF 3.2 – Corticosteroids – ICS/LABA combination inhalers

	1 st choice	Alternatives	
	Beclometasone / Formoterol	Beclometasone / Formoterol	Fluticasone fuorate / Vilanterol
Brand name	Fostair NEXThaler®	Fostair®	Relvar Ellipta®
Device	Dry powder	MDI	Dry powder
			
Strengths	100/6 microgram	100/6 microgram	92/22 microgram
Adult COPD dose	2 inhalations twice a day Fostair NEXThaler® 200/6 mcg is not indicated for patients with COPD.	2 inhalations twice a day (can use via AeroChamber Plus spacer) Fostair® 200/6 mcg inhalation solution is not indicated for patients with COPD.	One inhalation of 92/22 mcg once daily. Relvar Ellipta® 184/22 mcg is not indicated for patients with COPD.
Steps to use the inhaler – ease of use	4 step process <ul style="list-style-type: none"> • Open cover fully to load dose • Inhale dose • Close and check counter has gone down by one • Repeat 	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"> • Slide down cover to load dose • Inhale dose
Miscellaneous information	Dose counter In use shelf-life = 6 months No special temperature storage conditions required	Fostair is the only 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 – 100mcg beclometasone dipropionate (BDP) in Fostair is not equivalent to 100mcg BDP in other inhalers.	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)

**July 2016: Inhaled therapy licensed for COPD (ICS/LABA combinations, LABAs, LAMAs & LABA/LAMA combinations)
- Cost of treatment for 1 year**



Doses given do not imply therapeutic equivalence

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