



Brighton and Hove Clinical Commissioning Group
 High Weald Lewes Havens Clinical Commissioning Group
 Brighton and Sussex University Hospitals NHS Trust

JOINT FORMULARY
CHAPTER 3 - RESPIRATORY SYSTEM

[Formulary home page](#)

Non-Specialist Drugs	Specialist Initiation WITHOUT Shared Care Guidelines	Specialist Initiation WITH Shared Care Guidelines	Specialist ONLY Drugs
Suitable for <u>non-specialist</u> initiation.	For specialist initiation or recommendation only and specific on going monitoring (if required) but can then be prescribed by a GP <u>without</u> a shared care guideline.	For specialist initiation only and specific on going monitoring but can then be prescribed by GP <u>with</u> a shared care guideline.	For initiation and continuation (including monitoring) by a <u>specialist only</u> .
3.1	Bronchodilators		
3.2	Corticosteroids		
3.3	Cromoglicate, related therapy and leukotriene receptor antagonists		
3.4	Antihistamines, hyposensitisations and allergic emergencies		
3.5	Respiratory stimulants and pulmonary surfactants		
3.6	Oxygen		
3.7	Mucolytics		
3.8	Aromatic inhalations		
3.9	Cough preparations		
3.10	Systemic nasal decongestants		
3.11	Antifibrotics		
3.12	Other drugs (used in palliative care)		
Version Control			
Date of revision	Sections reviewed	Contributors	
09/11	All sections - Initial review	Dr S Glaspole	
03/12	Clinical Review	Emma Williams	
05/16	APC review	Brighton APC	
05/2018	Amendments following the publication of NHSE guidance on conditions for which prescriptions could potentially be restricted .	APC working group	
06/2019	APC review	Brighton APC	

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3.1 Bronchodilators (back to top)		
Refer to the Formulary Inhaler Guide for comparison information and training videos		
NICE Patient decision aid - Inhalers for asthma (Adults) includes consideration of carbon footprint		
COPD treatment pathway		
<u>PLEASE PRESCRIBE BY BRAND TO ENSURE CONSISTANT DEVICE</u>		
3.1.1 Adrenoceptor agonists		
3.1.1.1 Selective beta₂-adrenoceptor agonists		
Short-acting agents (SABA):		
Salbutamol	Ventolin Accuhaler [®] DPI 200 micrograms / dose Salbutamol CFC-free MDI 100 micrograms / dose Salamol Easi-Breath [®] 100 micrograms / dose Nebuliser solution 1 mg / ml, 2 mg / ml Oral solution 2 mg / 5 ml Tablets 4 mg Injection 500 micrograms / 1 ml Solution for I.V. infusion 5 mg in 5 ml	Breath-actuated device
Terbutaline	Bricanyl Turbohaler [®] DPI 500 micrograms / dose Injection 500 micrograms in 1 ml, 2.5 mg in 5 ml	
Long-acting agents (LABA):		
Salmeterol	Serevent Accuhaler [®] DPI 50 micrograms / dose Soltel [®] CFC-free MDI 25 micrograms /dose	Soltel licensed 12 years +
Formoterol	Easyhaler [®] DPI 12 micrograms /dose Oxis Turbohaler [®] DPI 6, 12 micrograms / dose Atimos Modulite [®] CFC-free MDI 12 micrograms / dose	Licensed 6 years +
3.1.2 Antimuscarinic bronchodilators		
Short-acting agents (SAMA):		
Ipratropium bromide	Atrovent [®] CFC-free MDI 20 micrograms / dose Atrovent [®] Nebuliser solution 250 micrograms in 1 ml, 500 micrograms in 2 ml	
Long-acting agents (LAMA):		
Tiotropium	Bratus [®] DPI Inhalation powder capsules for use with Zonda inhaler device, 10 micrograms / dose Spiriva Respimat [®] Soft Mist Inhaler (SMI) solution for inhalation 2.5 micrograms per metered inhalation	Licensed for COPD and asthma.
Aclidinium	Eklira Genuair [®] DPI Inhalation powder, 400 micrograms / metered inhalation (delivers 322 micrograms of aclidinium)	Licensed for COPD only
Combination preparations (LABA/LAMA):		
Aclidinium and formoterol	Duaklir Genuair [®] DPI Dry powder for inhalation, aclidinium 400 micrograms (as bromide 340 micrograms), formoterol (as fumarate dihydrate) 12 micrograms	Licensed for COPD only
Indacaterol and glycopyrronium	Ultibro Breezhaler [®] DPI Inhalation powder, hard capsule, for use with Ultibro Breezhaler [®] device), indacaterol (as maleate) 85 micrograms, glycopyrronium (as bromide) 43 micrograms	Licensed for COPD only
Tiotropium and olodaterol	Spiolto Respimat [®] Soft Mist Inhaler (SMI) Solution for inhalation, tiotropium (as bromide monohydrate) 2.5 micrograms, olodaterol (as hydrochloride) 2.5 micrograms	Licensed for COPD only

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Refer to the [Formulary Inhaler Guide](#) for comparison information and training videos

[NICE Patient decision aid - Inhalers for asthma \(Adults\)](#) includes consideration of carbon footprint

[COPD treatment pathway](#)

PLEASE PRESCRIBE BY BRAND TO ENSURE CONSISTANT DEVICE

Combination preparations (ICS/LABA/LAMA):

Fluticasone, vilanterol and umeclidinium	Telegy Ellipta [®] DPI Inhalation powder, fluticasone furoate 92 micrograms, umeclidinium (as bromide) 65 micrograms (equivalent to 55 micrograms umeclidinium) and vilanterol (as trifenate) 22 micrograms.	Licensed for COPD only. Most cost effective way to prescribe triple therapy.
Beclometasone, formoterol and glycopyrronium	Trimbow [®] MDI Solution for inhalation, beclometasone 87 micrograms, formoterol (as fumarate dihydrate) 5 micrograms, glycopyrronium (as bromide) 9 micrograms.	Licensed for COPD only. Most cost effective way to prescribe triple therapy.

3.1.3 Theophylline

Theophylline	Uniphyllin Continus [®] modified release tablets 200 mg, 300 mg, 400 mg	
Aminophylline	Injection 250mg in 10ml	

3.1.5 Peak flow meters, inhaler devices and nebulisers

Peak flow meter	Mini-Wright [®] (Clement Clarke) standard Mini-Wright [®] (Clement Clarke) low range	(60-800 litres / minute) (30-400 litres / minute)
Spacer devices	Able Spacer [®] (Clement Clarke)	Small-volume device. For use with all pressurised (aerosol) inhalers, with infant or child mask
	AeroChamber Plus [®] (GSK)	Medium-volume device. For use with all pressurised (aerosol) inhalers, device (blue), with mask (blue), infant device (orange) with mask, child device (yellow) with mask
	Volumatic [®]	Large-volume device. For use with Clenil Modulite [®] , Flixotide [®] , Seretide [®] , Serevent [®] , and Ventolin [®] inhalers
Sodium chloride	Nebuliser liquid 0.9%, 20 x 2.5 ml	

3.2 Corticosteroids (ICS): [\(back to top\)](#)




Beclometasone	Clenil Modulite [®] CFC-free MDI 50, 100, 200, 250 micrograms / dose Kelhale [®] CFC-free MDI 50, 100 micrograms / dose Qvar [®] CFC-free MDI 50, 100 micrograms / dose Qvar Easi-Breathe [®] 50, 100 micrograms / dose	Extra fine particles Licensed 18 + For use in children only Breath-actuated device
Budesonide	Easyhaler [®] DPI 100, 200, 400 micrograms / dose Pulmicort Turbohaler [®] DPI 100, 200, 400 micrograms / dose	Easyhaler more cost effective option
Fluticasone	Flixotide Accuhaler [®] DPI 50, 100, 250, 500 micrograms / dose Flixotide Evohaler [®] CFC-free MDI 50, 125, 250 micrograms / dose	

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3.2 Corticosteroids continued (back to top)		
Refer to the Formulary Inhaler Guide for comparison information and training videos		
NICE Patient decision aid - Inhalers for asthma (Adults) includes consideration of carbon footprint		
COPD treatment pathway		
PLEASE PRESCRIBE BY BRAND TO ENSURE CONSISTANT DEVICE		
Combination preparations (LABA/ICS):		
BNF states that in general, patients are best treated with single ingredient preparations.		
Beclometasone dipropionate and formoterol fumarate dihydrate	Fostair NEXThaler[®] DPI 100 / 6, 200 / 6 micrograms / dose inhalation powder Fostair[®] CFC-free MDI 100 / 6, 200 / 6 micrograms / dose	100/6 strengths licensed for asthma & COPD. Licenced for MART 200/6 strengths licensed for asthma only
Budesonide and formoterol fumarate dihydrate	Symbicort Turbohaler[®] DPI 100 / 6, 200 / 6, 400 / 12 micrograms / dose inhalation powder	100 / 6 licensed for asthma only. Licenced for SMART 200 / 6, 400 / 12 licensed for asthma & COPD
Fluticasone propionate and formoterol fumarate dihydrate	Flutiform[®] CFC-free MDI 5 / 50, 5 / 125, 10 / 250 micrograms / dose	All strengths licensed for asthma only.
Fluticasone propionate and salmeterol xinafoate	AirFluSal Forspiro[®] DPI 50 / 500 micrograms / dose inhalation powder Seretide Accuhaler[®] DPI 50 / 100, 50 / 250 micrograms / dose inhalation powder Seretide Evohaler[®] CFC-free MDI 25 / 50 micrograms / dose Sereflo[®] CFC-free MDI 25 / 125, 25 / 250 microgram / dose Sirdupla[®] CFC-free MDI 25 / 125, 25 / 250 microgram / dose	Licensed for asthma & COPD Licensed for asthma only Low strength only JF approved Sereflo 25 / 125 is not licensed for use with spacer device All strengths licensed for asthma only

3.3 Cromoglicate, related therapy and leukotriene receptor antagonists (back to top)		
3.3.1 Cromoglicate and related therapy		
Nedocromil sodium	Aerosol inhalation CFC-free 2mg / dose	
Sodium cromoglicate	Aerosol inhalation 5 mg / dose	
3.3.2. Leukotriene receptor antagonists (LTRAs)		
Montelukast	Tablets 10 mg Chewable tablets 4 mg, 5 mg Granules 4 mg	Please see SPC for important licensing information
3.3.3. Phosphodiesterase type-4 inhibitors		
Roflumilast	Daxas[®] Tablets 500 micrograms	As per NICE TA 461

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3.4 Antihistamines, hyposensitisation and allergic emergencies (back to top)		
3.4.1 Antihistamines		
Sedating antihistamines		
Chlorphenamine * 	Tablets 4 mg* Syrup 2 mg in 5 ml* Injection 10 mg in 1 ml	
Hydroxyzine	Tablets 10 mg, 25 mg	
Non-sedating antihistamines		
Loratadine 	Tablets 10 mg Syrup 5 mg in 5 ml	
Cetirizine 	Tablets 10 mg Oral solution 5 mg in 5 ml	
Fexofenadine hydrochloride	Tablets 120 mg, 180 mg	
3.4.2 Allergen Immunotherapy		
Omalizumab	Injection 150 mg	Approved for treating severe persistent allergic asthma as per NICE TA 278 (commissioned by NHSE) and for previously treated chronic spontaneous urticarial as per NICE TA 339 (commissioned by CCGs)
Pharmalgen	Bee venom extract Wasp venom extract	Approved as per NICE TA 246
Allergovit	Pollen preparation	
Acaroid	Mite preparation	
Mepolizumab	100 mg vial	NICE TA 431 for treating severe refractory eosinophilic asthma. (Commissioned by NHS England.)
Reslizumab	10 mg per ml vial	NICE TA 479 for treating severe eosinophilic asthma
Benralizumab	30 mg pre-filled syringe	As per NICE TA 565 (NHS England commissioned)
3.4.3 Allergic emergencies		
Anaphylaxis MHRA advice on adrenaline auto-injectors		
Adrenaline (epinephrine)	Injection 1 in 1000 0.5 ml, 1 ml Jext [®] autoinjector 150 microgram dose Jext [®] autoinjector 300 microgram dose EpiPen [®] Auto-injector 300 microgram dose EpiPen [®] Junior Auto-injector 150 microgram dose Emerade [®] 150 micrograms, 300 micrograms, 500 micrograms Solution for injection in pre-filled pen	Ensure patient is aware of PIL content Ensure patient is aware of PIL content Ensure patient is aware of PIL content
Angioedema		
C1-esterase inhibitor	Beriner [®] Injection for reconstitution 500 unit vial Cinryze [®] Injection powder for reconstitution 500 unit vial	Commissioned by NHS England
Lanadelumab	Vial 300mg	Commissioned by NHS England

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3.5 Respiratory stimulants and pulmonary surfactants ([back to top](#))

3.5.1 Respiratory stimulants

Doxapram	Injection 100 mg in 5 ml
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3.6 Oxygen ([back to top](#))

Contact the [medicines management team](#) or visit the [Chest Medicine website page](#) for further information

3.7 Mucolytics ([back to top](#))

Carbocisteine	Capsules 375 mg Oral liquid 250 mg / 5 ml	Trial for four week period, only continue if benefit derived Liquid for use in children only
Acetylcysteine	NACSYS [®] Effervescent tablets 600 mg	1 st line mucolytic for patients with swallowing difficulties Trial for four week period, only continue if benefit derived
Dornase alfa	Nebuliser solution 2500 units in 2.5 ml	For CF patients only. Any established patients in primary care can remain until NHS England plans for repatriation
Hypertonic saline 7%	PulmoClear [®] nebuliser solution	
Mannitol	Bronchitol [®] Inhalation power, hard capsule for use with disposable inhaler 40 mg	For CF, as approved by NICE TA 266

3.8 Aromatic inhalations ([back to top](#))


Menthol and eucalyptus	 Inhalation, BP 1980
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3.9 Cough preparations ([back to top](#))

3.9.1 Cough suppressants

Pholcodine	 Linctus 5 mg in 5 ml
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3.9.2 Expectorant and demulcent cough preparations

Simple linctus	 Linctus
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3.10 Systemic nasal decongestants ([back to top](#))

Pseudoephedrine	 Tablets 60 mg Elixir 30 mg in 5 ml SF
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3.11 Antifibrotics ([back to top](#))

Pirfenidone	Capsules 267 mg	Commissioned by NHS England NICE TA 504
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Nintedanib	Capsules 100 mg, 150 mg	Commissioned by NHS England NICE TA 379
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3.12 Other drugs (used in palliative care) ([back to top](#))

Hyoscine hydrobromide	Injection 400 micrograms in 1 ml, 600 micrograms in 1 ml	B&H primary care please refer to the Palliative Care folder
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Glycopyrronium	Injection 200 micrograms in 1 ml, 600 micrograms in 3 ml	B&H primary care please refer to the Palliative Care folder
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Non-Specialist Drugs

Specialist Initiation WITHOUT Shared Care Guidelines

Specialist Initiation WITH Shared Care Guidelines

Specialist ONLY Drugs