

## 3 Respiratory System

**Comment:** Local guidance is available from the Forth Valley Asthma Online Resource [Asthma Guidelines](#) and COPD Guidance with links to national guidance. Apart from salbutamol MDI, all other inhalers should be prescribed by brand name to ensure continuity of supply. ([COPD](#))

3.1 Bronchodilators		Primary Care	Acute/ Specialist Services
<b>3.1.1 Adrenoceptor agonists</b>			
<b>Short acting Beta<sub>2</sub> agonists</b>			
	Salbutamol (1 <sup>st</sup> Line)	✓	✓
	Terbutaline (2 <sup>nd</sup> Line)	✓	✓
<b>Long acting Beta<sub>2</sub> agonists</b>			
	Formoterol Easyhaler <sup>®</sup> (1 <sup>st</sup> Line)	✓	✓
	Serevent <sup>®</sup> (Salmeterol)	✓	✓
<b>Comment:</b> Salmeterol remains formulary for patients already established on this therapy			
<b>3.1.2 Long acting Antimuscarinic bronchodilators</b>			
	Incruse Ellipta <sup>®</sup> (Umeclidinium)	✓	✓
	Spiriva Respimat <sup>®</sup> (Tiotropium)	✓	✓
<b>3.1.3 Theophylline</b>			
	Aminophylline Injection		✓
	Uniphyllin <sup>®</sup>	✓	✓
<b>Comment:</b> Different brands of theophylline modified release preparations have different bioavailabilities. Products are NOT INTERCHANGEABLE, prescribers should specify the brand on which a patient is stabilised.			
<b>3.1.4 Compound bronchodilators preparations</b>			
<b>Short acting Beta<sub>2</sub> agonist / antimuscarinic bronchodilator</b>			
	Combivent <sup>®</sup> nebulas (Salbutamol + Ipratropium )	✓	✓
<b>Antimuscarinic bronchodilator / Long acting Beta<sub>2</sub> agonist</b>			
	Anoro Ellipta <sup>®</sup> (Umeclidinium + Vilanterol) (1 <sup>st</sup> line)	✓	✓
	Spiolto Respimat <sup>®</sup> (Tiotropium + olodaterol)	✓	✓
<b>3.1.5 Peak flow meters, inhaler spacer devices and nebulisers Peak Flow Meter</b>			
<b>Peak Flow Meters</b>			
	Mini-Wright <sup>®</sup> Adult & Paediatric	✓	✓

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Inhaler spacer devices			
	Aerochamber Plus Flow-Vu® +/-mask	✓	✓
	Volumatic®	✓	✓

**Comment:** Spacer devices are recommended in preference to dry powder or breath actuated inhalers particularly in young children.

3.2 Corticosteroids		Primary Care	Acute/ Specialist Services
	Clenil Modulite® (Beclometasone Dipropionate) (1 <sup>st</sup> line)	✓	✓
	Budesonide (2 <sup>nd</sup> Line)	✓	✓
	Fluticasone	✓	✓
	Hydrocortisone IV (See section 6.3.2)		✓
	Prednisolone Oral (See section 6.3.2)	✓	✓

**Comment:** Refer to Guidance on Issuing Steroid Cards  
<https://guidelines.staffnet.fv.scot.nhs.uk/wp-content/uploads/sites/2/2016/11/5.6-Adverse-Effects-of-Treatment-in-Children.pdf>  
<https://guidelines.staffnet.fv.scot.nhs.uk/wp-content/uploads/sites/2/2016/11/6.6.-Adverse-Effects-of-Treatment-in-Adults.pdf>

<i>Dual Combination bronchodilator preparations</i>			
<i>Inhaled corticosteroid / Long acting Beta<sub>2</sub> agonists</i>			
<i>Asthma</i>			
	Fostair® (Beclometasone extra-fine+ Formoterol) (1 <sup>st</sup> Line MDI, 1 <sup>st</sup> line DPI)	✓	✓
	Relvar Ellipta® (Fluticasone furoate+Vilanterol) (2 <sup>nd</sup> Line DPI)	✓	✓
	Symbicort® (Budesonide+Formoterol ) (2 <sup>nd</sup> Line DPI)	✓	✓
	Flutiform® (Fluticasone + Formoterol) (2 <sup>nd</sup> Line MDI)	✓	✓
	Seretide® (Fluticasone propionate+Salmeterol) (2 <sup>nd</sup> Line MDI, DPI)	✓	✓

**Comment:** Fostair® MDI shelf life is 3 months – prescribe appropriate quantities to avoid unnecessary wastage

<i>Dual Combination bronchodilator preparations</i>			
<i>Inhaled corticosteroid / Long acting Beta<sub>2</sub> agonist</i>			
<i>COPD</i>			
	Relvar Ellipta® 92/22 (Fluticasone furoate + Vilanterol) (1 <sup>st</sup> line DPI)	✓	✓
	Fostair® (Beclometasone extra-fine + Formoterol, 1 <sup>st</sup> line MDI, NEXThaler® 2 <sup>nd</sup> line DPI)	✓	✓
	Fobumix Easyhaler® DPI (Budesonide + Formoterol inhaler) (3 <sup>rd</sup> line DPI)	✓	✓

<i>Inhaled corticosteroid / Long acting Beta<sub>2</sub> agonist / Long acting antimuscarinic</i>			
<i>COPD</i>			
	Trelegy Ellipta® (Fluticasone furoate + Vilanterol + Umeclidinium) (DPI)	✓	✓
	Trimbow® (Beclometasone + Formoterol + Glycopyrronium) (MDI)	✓	✓

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3.3 Cromoglicic acid, related therapy and leukotriene antagonists		Primary Care	Acute/ Specialist Services
<b>3.3.2 Leukotriene receptor antagonists</b>			
	Montelukast	✓	✓

3.4 Antihistamines, hyposensitisation, and allergic emergencies		Primary Care	Acute/ Specialist Services
<b>3.4.1 Antihistamines</b>			
	Cetirizine (1 <sup>st</sup> Line)	✓	✓
	Loratadine (2 <sup>nd</sup> Line)	✓	✓
	Chlorphenamine	✓	✓
	Alimemazine (Paediatrics)	✓	✓
	Promethazine (Paediatrics)	✓	✓
<b>3.4.2 Allergen Immunotherapy</b>			
	Omalizumab		✓
	Mepolizumab		✓
	Benralizumab		✓
<b>Comment:</b> Mepolizumab and benralizumab restricted to use by clinicians responsible for adult severe asthma at FVRH. Benralizumab is a 2 <sup>nd</sup> choice alternative to mepolizumab .			
<b>3.4.3 Allergic emergencies</b>			
<b>Adrenaline (Epinephrine)</b>			
	Epipen <sup>®</sup> Auto-injector	✓	✓
	Jext <sup>®</sup> Auto-injector	✓	✓
	Adrenaline (Epinephrine)	✓	✓
<b>C1-Esterase Inhibitor</b>			
	Icatibant		✓

3.5 Respiratory Stimulants and Pulmonary Surfactants		Primary Care	Acute/ Specialist Services
<b>3.5.1 Respiratory Stimulants</b>			
	Caffeine Citrate 20mg/ml solution for injection ( Peyona)		✓

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### 3.5.2 Pulmonary Surfactants

	Poractant alfa		✓
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### 3.7 Mucolytics

		Primary Care	Acute/ Specialist Services
	Acetylcysteine effervescent tablets (NACSYS <sup>®</sup> ) (1 <sup>st</sup> line in patients aged 18 years and above)	✓	✓
	Carbocisteine (1 <sup>st</sup> line in patients aged 2 - 18 years)	✓	✓
	Mannitol (Bronchitol <sup>®</sup> ) (Continuation of therapy from specialist centre)	⊕	✓

### 3.11 Antifibrotics

		Primary Care	Acute/ Specialist Services
	Pirfenidone		✓
	Nintedanib		✓

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