

Inhaled bronchodilators relax constricted airways and treat the noisy part of asthma: coughing, wheezing, choking and shortness of breath.

<i>Brand name</i>	<i>Generic name</i>	<i>Delivery system</i>	<i>Dosages available</i>	<i>Frequency of dosage</i>	<i>Ages approved</i>	<i>Manufacturer or distributor</i>
AccuNeb® inhalation solution	albuterol sulfate	nebulizer	0.021% solution: 0.63mg/3mL unit-dose vials 0.042% solution: 1.25 mg/3mL unit-dose vials	3-4 times per day	2 yrs & up	Dey L.P.
Advair Diskus® 100/50 250/50 500/50	fluticasone propionate <i>and</i> salmeterol	dry powder inhaler	100mcg fluticasone/50mcg salmeterol per inhalation 250mcg fluticasone/50mcg salmeterol per inhalation 500mcg fluticasone/50mcg salmeterol per inhalation	2 times per day	4 yrs & up	GlaxoSmithKline <i>Note: Advair does not replace fast-acting inhalers for sudden symptoms and should not be taken more than twice a day.</i>
Advair HFA® 45/21 115/21 230/21	fluticasone propionate <i>and</i> salmeterol	HFA metered dose inhaler	45mcg fluticasone/21mcg salmeterol per inhalation 115mcg fluticasone/21mcg salmeterol per inhalation 230mcg fluticasone/21mcg salmeterol per inhalation	2 times per day	12 yrs & up	<i>Advair HFA now has an integrated dose counter</i>
albuterol inhalation aerosol (generic)	albuterol	CFC metered dose inhaler	90 mcg per inhalation	3-4 times per day	4 yrs & up	various manufacturers <i>Note: To be discontinued 12/31/08</i>
albuterol sulfate inhalation solution (generic)	albuterol sulfate	nebulizer	0.021% solution: 0.63mg/3mL unit-dose vials 0.042% solution: 1.25 mg/3mL unit-dose vials 0.083% solution: 2.5mg/3mL unit-dose vials. 5% solution: 2.5mg/0.5mL unit-dose vials	3-4 times per day	2 yrs & up 2 yrs & up 2 yrs & up 12 yrs & up	various manufacturers
Alupent® inhalation aerosol	metaproterenol sulfate	CFC metered dose inhaler	65 mcg per inhalation	3-4 times per day	12 yrs & up	Boehringer Ingelheim

Alupent® inhalation solution	metaproterenol sulfate	nebulizer	0.4% solution: 10mg/2.5mL unit-dose vials 0.6% solution: 15mg/2.5mL unit-dose vials	3-4 times per day	12 yrs & up	Boehringer Ingelheim
Atrovent® HFA inhalation aerosol	ipratropium bromide HFA	HFA metered dose inhaler	21 mcg per inhalation	4 times per day	12 yrs & up	Boehringer Ingelheim <i>Note: Atrovent is not indicated for the initial treatment of acute episodes of bronchospasm where rapid response is required.</i>
Brovana®	arformoterol tartrate	nebulizer	2 mL/2.1mL unit-dose vials	2 times per day	18 yrs & up ??	Sepracor Inc. <i>Note: Brovana is not indicated to relieve acute respiratory symptoms</i>
Combivent®	ipratropium bromide <i>and</i> albuterol sulfate	CFC metered dose inhaler	18 mcg ipratropium bromide/ 103 mcg albuterol sulfate per inhalation	4 times per day	12 yrs & up	Boehringer Ingelheim
DuoNeb® inhalation solution	ipratropium bromide <i>and</i> albuterol sulfate	nebulizer	0.5mg ipratropium/3mg albuterol in 3mL unit dose vials	4-6 times per day	18 yrs & up	Dey L.P.
Foradil® Aerolizer®	formoterol fumarate	dry powder inhaler	12 mcg per inhalation	2 times per day	5 yrs & up	Schering Corp. <i>Note: Foradil is not indicated to relieve acute asthma symptoms.</i>
ipratropium bromide inhalation solution (generic)	ipratropium bromide	nebulizer	0.02% solution: 0.5mg/2.5mL unit-dose vials	3-4 times per day	12 yrs & up	various manufacturers
ipratropium bromide <i>and</i> albuterol sulfate inhalation solution (generic)	ipratropium bromide <i>and</i> albuterol sulfate	nebulizer	0.5mg ipratropium/3mg albuterol in 3mL unit-dose vials	4-6 times per day	18 yrs & up	various manufacturers

Maxair™ Autohaler™	pirbuterol acetate	breath-actuated CFC metered dose inhaler	200 mcg per inhalation	3-4 times per day	12 yrs & up	3M Pharmaceuticals
metaproterenol sulfate inhalation solution (generic)	metaproterenol sulfate	nebulizer	0.4% solution: 10mg/2.5mL unit-dose vials 0.6% solution: 15mg/2.5mL unit-dose vials	3-4 times per day	12 yrs & up	various manufacturers
Perforomist™ inhalation solution	formoterol fumarate	nebulizer	20mcg/2mL unit-dose vials	2 times per day	18 yrs & up	Dey LP <i>Note: Perforomist is not indicated to treat asthma or acute deteriorations of COPD</i>
ProAir® HFA	albuterol sulfate HFA	HFA metered dose inhaler	90 mcg per inhalation	3-4 times per day	4 yrs & up	TEVA Specialty Pharmaceuticals LLC
Proventil® HFA inhalation aerosol	albuterol sulfate	HFA metered dose inhaler	108 mcg per inhalation	3-4 times per day	4 yrs & up	Schering Corp.
Serevent® Diskus®	salmeterol xinafoate	dry powder inhaler	50 mcg per inhalation	2 times per day	4 yrs & up	GlaxoSmithKline <i>Note: Serevent should not be used to relieve acute asthma symptoms</i>
Spiriva® HandiHaler®	tiotropium bromide inhalation powder	dry powder inhaler	18 mcg per inhalation	1 time per day	12 yrs and up	Boehringer Ingelheim <i>Note: Spiriva is not indicated for the initial treatment of acute episodes of bronchospasm.</i>
Symbicort® inhalation aerosol 80/4.5 160/4.5	budesonide <i>and</i> formoterol fumarate	HFA metered dose inhaler	80mcg budesonide/4.5mcg formoterol per inhalation 160mcg budesonide/4.5mcg formoterol per inhalation	2 times per day	12 yrs & up	AstraZeneca <i>Note: Symbicort is not indicated for the relief of acute bronchospasm. Symbicort (HFA) now has an integrated dose counter</i>

Ventolin® HFA inhalation aerosol	albuterol sulfate	HFA metered dose inhaler	108 mcg per inhalation	3-4 times per day	4 yrs & up	GlaxoSmithKline <i>Note: Ventolin HFA now has an integrated dose counter</i>
Xopenex® inhalation solution	levalbuterol HCl	nebulizer	0.31mg/3mL unit-dose vial 0.63mg/3mL unit-dose vial 1.25mg/3mL unit-dose vials	3 times per day	6 yrs & up	Sepracor Inc.
Xopenex® inhalation solution concentrate			1.25mg/0.5mL unit-dose vials			
Xopenex HFA™ inhalation aerosol	levalbuterol tartrate	HFA metered dose inhaler	45 mcg per inhalation	3-4 times per day	4 yrs & up	

Inhaled corticosteroids and other anti-inflammatory medications reduce and prevent airway inflammation (swelling). Used daily, anti-inflammatories treat the underlying part of asthma patients may not feel.

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Advair Diskus® 100/50 250/50 500/50	fluticasone propionate <i>and</i> salmeterol	dry powder inhaler	100mcg fluticasone/50mcg salmeterol per inhalation 250mcg fluticasone/50mcg salmeterol per inhalation 500mcg fluticasone/50mcg salmeterol per inhalation	2 times per day	4 yrs & up	GlaxoSmithKline <i>Note: Advair does not replace fast-acting inhalers for sudden symptoms and should not be taken more than twice a day.</i>
Advair HFA® 45/21 115/21 230/21	fluticasone propionate <i>and</i> salmeterol	HFA metered dose inhaler	45mcg fluticasone/21mcg salmeterol per inhalation 115mcg fluticasone/21mcg salmeterol per inhalation 230mcg fluticasone/21mcg salmeterol per inhalation	2 times per day	12 yrs & up	<i>Advair HFA now has an integrated dose counter</i>
AeroBid®	flunisolide	CFC metered dose inhaler	250 mcg per inhalation	2 times per day	6 yrs & up	Forest Pharmaceuticals Inc.
AeroBid®-M (menthol)						

Aerospan™ HFA	flunisolide	HFA metered dose inhaler with spacer	80 mcg per inhalation	2 times per day	6 yrs & up	Forest Pharmaceuticals Inc. <i>Approved by FDA; not yet available in pharmacies</i>
Alvesco® HFA 80 mcg 160 mcg	ciclesonide	HFA metered dose inhaler	80 mcg per inhalation 160 mcg per inhalation	2 times per day	12 yrs & up	Sepracor Inc.
Asmanex® Twisthaler® 110 mcg 220 mcg	mometasone furoate	dry powder inhaler	110 mcg per inhalation 220 mcg per inhalation	1-2 times per day	4 yrs & up	Schering Corp.
Azmacort® inhalation aerosol	triamcinolone acetonide	CFC metered dose inhaler with spacer	100 mcg per inhalation	2-4 times per day	6 yrs & up	Kos Pharmaceuticals
cromolyn sodium inhalation solution (generic)	cromolyn sodium	nebulizer	20mg/2mL unit-dose vials	4 times per day	2 yrs & up	various manufacturers
Flovent® Diskus 50 mcg 100 mcg 250 mcg	fluticasone propionate	dry powder inhaler	50 mcg per inhalation 100 mcg per inhalation 250 mcg per inhalation	2 times per day	4 yrs & up	GlaxoSmithKline <i>Note: Flovent HFA now has an integrated dose counter</i>
Flovent® HFA 44 mcg 110 mcg 220 mcg		HFA metered dose inhaler	44 mcg per inhalation 110 mcg per inhalation 220 mcg per inhalation			
Intal® Inhaler	cromolyn sodium	CFC metered dose inhaler	800 mcg per inhalation	4 times per day	5 & up	King Pharmaceuticals
Pulmicort Respules®	budesonide	nebulizer	0.25mg/2mL unit-dose ampule 0.5mg/2mL unit-dose ampule 1mg/2mL unit-dose ampule	1-2 times per day	12 months – 8 yrs	AstraZeneca LP
Pulmicort Flexhaler™ 90 mcg 180 mcg		dry powder inhaler	90 mcg per inhalation 180 mcg per inhalation	2 times a day	6 yrs & up	

QVAR® inhalation aerosol 40 mcg 80 mcg	beclomethasone dipropionate HFA	HFA metered dose inhaler	40 mcg per inhalation 80 mcg per inhalation	2 times per day	12 yrs & up	Teva Specialty Pharmaceuticals LLC
Symbicort® inhalation aerosol 80/4.5 160/4.5	budesonide <i>and</i> formoterol fumarate	HFA metered dose inhaler	80mcg budesonide/4.5mcg formoterol per inhalation 160mcg budesonide/4.5mcg formoterol per inhalation	2 times per day	12 yrs & up	AstraZeneca <i>Note: Symbicort is not indicated for the relief of acute bronchospasm.</i>
Tilade® inhalation aerosol	nedocromil sodium	CFC metered dose inhaler	1.75 mcg per inhalation	4 times a day	6 yrs & up	King Pharmaceuticals <i>Note: MDI being discontinued</i>

Leukotriene Modifiers

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Accolate®	zafirlukast	tablets	10 mg tablets 20 mg tablets	2 times per day	5 yrs & up	AstraZeneca
Singulair®	montelukast sodium	tablets	4 mg chewable tablets 5 mg chewable tablets 10 mg coated tablets	1 time per day	12 mos & up	Merck & Co. Inc.
		granules	4 mg packets			
Zyflo®	zileuton	tablets	600 mg tablets	4 times per day	12 yrs & up	Critical Therapeutics
Zyflo CR™		extended release tablets		2 times per day		

Charts Updated June 1, 2009