

# Respiratory Inhalers 2014

## Side By Side

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Brand Name	ProAir HFA	Proventil HFA	Ventolin HFA	Xopenex HFA	Foradil Aerolizer	Arcapta Neohaler	Serevent Diskus	Aerolizer Blisters	Atrovent HFA	Combivent RespiMat	Spiriva HandiHaler	Tudorza Praxair
Class of Medication	Short-acting beta2 agonist	Short-acting beta2 agonist	Short-acting beta2 agonist	Long-acting beta2 agonist	Long-acting beta2 agonist	Long-acting beta2 agonist	Long-acting beta2 agonist	Long-acting beta2 agonist	Long-acting beta2 agonist	Long-acting beta2 agonist	Long-acting beta2 agonist	Long-acting beta2 agonist
Types of Inhaler	HFA MDI	HFA MDI	HFA MDI	HFA MDI	HFA MDI	HFA MDI	HFA MDI	HFA MDI	HFA MDI	HFA MDI	HFA MDI	HFA MDI
Drug Approved	2004	1996	2001	2005	2001	2012	1997	2014	2004	2011	2004	2012
Active Ingredients	albuterol sulfate	albuterol sulfate	albuterol sulfate	levalbuterol HFA propellant	formoterol fumarate	lactose monohydrate	formoterol fumarate	fluticasone propionate, salmeterol, lactose monohydrate	tiotropium bromide	ipratropium bromide, MDI, with no propellant	tiotropium bromide	tiotropium bromide
Dose Counter	yes	no	yes	no	no	no	no	no	no	no	no	no
Approved For	Asthma, age 4 and up	Asthma, age 4 and up	Asthma, age 4 and up	Asthma, age 4 and up	Asthma, age 5 and up, COPD	Asthma, age 4 and up, COPD	Asthma, age 4 and up, COPD	Asthma, age 4 and up, COPD	Asthma, age 12 and up	Asthma, age 6 and up, COPD	Asthma, age 12 and up	Asthma, age 12 and up, COPD
Dosing and Administration	1-2 inhalations every 4-6 hours or 15-20 minutes before exercise	1-2 inhalations every 4-6 hours or 15-20 minutes before exercise	1-2 inhalations every 4-6 hours or 15-20 minutes before exercise	1-2 inhalations every 4-6 hours or 15-20 minutes before exercise	1 dose, once a day	1 inhalation twice a day or 30 minutes before exercise, do not use more frequently than every 12 hours	1 inhalation once a day	1 inhalation once a day	2 inhalations, 4 times a day	1 inhalation, 4 times a day, no more than 6 inhalations in 24 hours	1 dose once a day	1 inhalation, twice a day
Shaking and Priming Instructions	Shake and spray 2 times before first use or after 2 weeks non-use	Shake and spray 4 times before first use, after dropping or after 2 weeks non-use	Shake and spray 4 times before first use, after dropping or after 2 weeks non-use	Shake and spray 4 times before first use or after 2 weeks non-use	Do not wash or take apart; keep dry	Do not wash or take apart; keep dry	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath
Warnings	Use at first sign of symptoms or prior to exercise	Use at first sign of symptoms or prior to exercise	Use at first sign of symptoms or prior to exercise	Use at first sign of symptoms or prior to exercise	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath

### Short-acting bronchodilators

relax tight muscles in airways and offer quick relief of symptoms such as coughing, wheezing and shortness of breath for 3-6 hours

### Long-acting bronchodilators

relax tight muscles in airways and offer lasting relief of symptoms such as coughing, wheezing and shortness of breath for at least 12 hours

Brand Name	Aeroplan	Alvesco	Amanexx Twisthaler	Flovent Diskus	Flovent HFA	Pulmicort Flexhaler	QVAR	Advair Diskus	Advair HFA	Breo Ellipta	Dulera	Symbicort
Class of Medication	Formoterol	Formoterol	Formoterol	Formoterol	Formoterol	Budesonide	Budesonide	Formoterol, fluticasone propionate, salmeterol, lactose	Formoterol, fluticasone propionate, salmeterol, lactose	Formoterol, vilanteril, lactose monohydrate, magnesium stearate	Formoterol, budesonide, lactate, HFA MDI	Budesonide, formoterol fumarate dihydrate, HFA MDI
Types of Inhaler	HFA MDI with built-in spacer	HFA MDI	dry powder inhaler	dry powder inhaler	HFA MDI	dry powder inhaler	dry powder inhaler	dry powder inhaler	dry powder inhaler	dry powder inhaler	HFA MDI	HFA MDI
Drug Approved	2012	2008	2005	2004	2004	2006	2000	2006	2006	2013	2010	2006
Active Ingredients	formoterol	formoterol	formoterol, lactose	fluticasone propionate, HFA propellant	fluticasone propionate	budesonide, lactose monohydrate	budesonide, dipropionate, HFA MDI	fluticasone propionate and salmeterol, lactose	fluticasone propionate and salmeterol, lactose	vilanteril, lactose monohydrate, magnesium stearate	formoterol fumarate and formoterol fumarate dihydrate, HFA MDI	budesonide and formoterol fumarate dihydrate, HFA MDI
Dose Counter	no	yes	no	no	no	no	no	no	no	no	no	no
Approved For	Asthma, age 6 and up	Asthma, age 12 and up	Asthma, age 4 and up	Asthma, age 4 and up	Asthma, age 4 and up	Asthma, age 6 and up	Asthma, age 5 and up	Asthma, age 4 and up, COPD	Asthma, age 12 and up	Asthma, age 12 and up	Asthma, age 12 and up	Asthma, age 12 and up, COPD
Dosing and Administration	1-2 inhalations twice a day	1-2 inhalations twice a day	1-2 inhalations once or twice a day	2 inhalations twice a day	2 inhalations twice a day	1-2 inhalations twice a day	1-2 inhalations twice a day	1 inhalation twice a day, do not use more frequently than every 12 hours	2 inhalations twice a day, do not use more frequently than every 12 hours	1 inhalation, once a day	2 inhalations twice a day, do not use more frequently than every 12 hours	2 inhalations twice a day, do not use more frequently than every 12 hours
Shaking and Priming Instructions	Shake and spray 7 times before first use or after 2 weeks non-use	Shaking not necessary; spray 3 times before first use or after 10 days from use	Shaking not necessary; spray 2 times before first use or after 10 days non-use	Shake (5 seconds) and spray 4 times before first use, shake and spray once after dropping or after 7 days non-use	Shake (5 seconds) and spray 4 times before first use, shake and spray once after dropping or after 7 days non-use	Do not shake; twist and click 2 times before first use	Shaking not necessary; spray 2 times before first use or after 10 days non-use	Shake (5 seconds) and spray 4 times before first use; spray 2 times after dropping or after 10 days non-use	Shake (5 seconds) and spray 4 times before first use; spray 2 times after dropping or after 7 days non-use	Shake (5 seconds) and spray 4 times before first use or after 5 days non-use	Shake (5 seconds) and spray 2 times before first use, after 7 days non-use	Shake (5 seconds) and spray 2 times before first use, after 7 days non-use
Warnings	Use at first sign of symptoms or prior to exercise	After each use wipe mouthpiece with dry cloth, do not use water	Do not wash or take apart; keep dry	Do not wash or take apart; keep dry	Do not wash or take apart; keep dry	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath	Do not use to treat sudden episodes of coughing, wheezing or shortness of breath

### Inhaled corticosteroids

reduce and prevent swelling of airway tissues; they do not relieve sudden symptoms of coughing, wheezing or shortness of breath

### Combination medications

contain both long-acting bronchodilator and inhaled corticosteroid