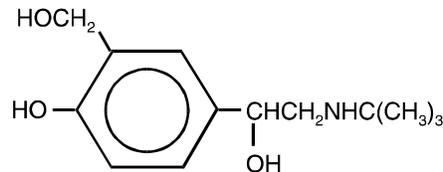


VENTOLIN[®]
(albuterol, USP)
Inhalation Aerosol

Bronchodilator Aerosol
For Oral Inhalation Only

DESCRIPTION: The active component of VENTOLIN Inhalation Aerosol is albuterol, USP, racemic (α^1 -[(*tert*-butylamino)methyl]-4-hydroxy-*m*-xylene- α,α' -diol) and a relatively selective beta₂-adrenergic bronchodilator having the following chemical structure:



Albuterol is the official generic name in the United States. The World Health Organization recommended name for the drug is salbutamol. The molecular weight of albuterol is 239.3, and the empirical formula is C₁₃H₂₁NO₃. Albuterol is a white to off-white crystalline solid. It is soluble in ethanol, sparingly soluble in water, and very soluble in chloroform.

VENTOLIN Inhalation Aerosol is a pressurized metered-dose aerosol unit for oral inhalation. It contains a microcrystalline (95% ≤ 10 μm) suspension of albuterol in propellants (trichloromonofluoromethane and dichlorodifluoromethane) with oleic acid. Each actuation delivers 100 mcg of albuterol from the valve and 90 mcg of albuterol from the mouthpiece. Each 6.8-g canister provides 80 inhalations and each 17-g canister provides 200 inhalations.

CLINICAL PHARMACOLOGY: In vitro studies and in vivo pharmacologic studies have demonstrated that albuterol has a preferential effect on beta₂-adrenergic receptors compared with isoproterenol. While it is recognized that beta₂-adrenergic receptors are the predominant receptors in bronchial smooth muscle, data indicate that there is a population of beta₂-receptors in the human heart existing in a concentration between 10% and 50%. The precise function of these receptors has not been established.

The pharmacologic effects of beta-adrenergic agonist drugs, including albuterol, are at least in part attributable to stimulation through beta-adrenergic receptors of intracellular adenylyl cyclase, the enzyme that catalyzes the conversion of adenosine triphosphate (ATP) to cyclic-3',5'-adenosine monophosphate (cyclic AMP). Increased cyclic AMP levels are associated with relaxation of bronchial smooth muscle and inhibition of release of mediators of immediate hypersensitivity from cells, especially from mast cells.

Albuterol has been shown in most controlled clinical trials to have more effect on the respiratory tract, in the form of bronchial smooth muscle relaxation, than isoproterenol at comparable doses while producing fewer cardiovascular effects. Controlled clinical studies and other clinical experience have shown that inhaled albuterol, like other beta-adrenergic agonist drugs, can produce

VENTOLIN® (albuterol, USP) Inhalation Aerosol

a significant cardiovascular effect in some patients, as measured by pulse rate, blood pressure, symptoms, and/or electrocardiographic changes.

Albuterol is longer acting than isoproterenol in most patients by any route of administration because it is not a substrate for the cellular uptake processes for catecholamines nor for catechol-*O*-methyl transferase.

The effects of rising doses of albuterol and isoproterenol aerosols were studied in volunteers and asthmatic patients. Results in normal volunteers indicated that albuterol is one half to one quarter as active as isoproterenol in producing increases in heart rate. In asthmatic patients similar cardiovascular differentiation between the two drugs was also seen.

Preclinical: Intravenous studies in rats with albuterol sulfate have demonstrated that albuterol crosses the blood-brain barrier and reaches brain concentrations amounting to approximately 5.0% of the plasma concentrations. In structures outside the brain barrier (pineal and pituitary glands), albuterol concentrations were found to be 100 times those in the whole brain.

Studies in laboratory animals (minipigs, rodents, and dogs) have demonstrated the occurrence of cardiac arrhythmias and sudden death (with histologic evidence of myocardial necrosis) when beta-agonists and methylxanthines are administered concurrently. The clinical significance of these findings is unknown.

Pharmacokinetics: Because of its gradual absorption from the bronchi, systemic levels of albuterol are low after inhalation of recommended doses. Studies undertaken with 4 subjects administered tritiated albuterol resulted in maximum plasma concentrations occurring within 2 to 4 hours. Due to the sensitivity of the assay method, the metabolic rate and half-life of elimination of albuterol in plasma could not be determined. However, urinary excretion provided data indicating that albuterol has an elimination half-life of 3.8 hours. Approximately 72% of the inhaled dose is excreted within 24 hours in the urine, and consists of 28% as unchanged drug and 44% as metabolite.

Clinical Trials: In controlled clinical trials involving adults with asthma, the onset of improvement in pulmonary function was within 15 minutes, as determined by both MMEF (maximum midexpiratory flow rate) and FEV₁ (forced expiratory volume in 1 second). MMEF measurements also showed that near maximum improvement in pulmonary function generally occurs within 60 to 90 minutes following 2 inhalations of albuterol and that clinically significant improvement generally continues for 3 to 4 hours in most patients. Some patients showed a therapeutic response (defined by maintaining FEV₁ values 15% or more above baseline) that was still apparent at 6 hours. Continued effectiveness of albuterol was demonstrated over a 13-week period in these same trials.

In controlled clinical trials involving children 4 to 12 years of age, FEV₁ measurements showed that maximum improvement in pulmonary function occurs within 30 to 60 minutes. The onset of clinically significant ($\geq 15\%$) improvement in FEV₁ was observed as soon as 5 minutes following 180 mcg of albuterol in 18 of 30 (60%) children in a controlled dose-ranging study. Clinically significant improvement in FEV₁ continued in the majority of patients for 2 hours and in 33% to 47% for 4 hours among 56 patients receiving inhalation aerosol in 1 pediatric study. In a second study among 48 patients receiving inhalation aerosol, clinically significant improvement continued in the majority for up to 1 hour and in 23% to 40% for 4 hours. In addition, at least 50% of the patients in both studies achieved an improvement in FEF_{25%-75%} (forced expiratory flow rate between 25% and 75% of the forced vital capacity) of at least 20% for 2 to 5 hours. Continued effectiveness of albuterol was demonstrated over the 12-week study period.

In other clinical studies in adults and children, 2 inhalations of VENTOLIN Inhalation Aerosol taken approximately 15 minutes before exercise prevented exercise-induced bronchospasm, as

VENTOLIN® (albuterol, USP) Inhalation Aerosol

demonstrated by the maintenance of FEV₁ within 80% of baseline values in the majority of patients. One study in adults also evaluated the duration of the prophylactic effect to repeated exercise challenges, which was evident at 4 hours in the majority of patients and at 6 hours in approximately one third of the patients.

INDICATIONS AND USAGE: VENTOLIN Inhalation Aerosol is indicated for the prevention and relief of bronchospasm in patients 4 years of age and older with reversible obstructive airway disease and for the prevention of exercise-induced bronchospasm in patients 4 years of age and older.

VENTOLIN Inhalation Aerosol can be used with or without concomitant steroid therapy.

CONTRAINDICATIONS: VENTOLIN Inhalation Aerosol is contraindicated in patients with a history of hypersensitivity to albuterol or any of its components.

WARNINGS:

Paradoxical Bronchospasm: VENTOLIN Inhalation Aerosol can produce paradoxical bronchospasm, which may be life threatening. If paradoxical bronchospasm occurs, VENTOLIN Inhalation Aerosol should be discontinued immediately and alternative therapy instituted. It should be recognized that paradoxical bronchospasm, when associated with inhaled formulations, frequently occurs with the first use of a new canister or vial.

Cardiovascular Effects: VENTOLIN Inhalation Aerosol, like all other beta-adrenergic agonists, can produce a clinically significant cardiovascular effect in some patients as measured by pulse rate, blood pressure, and/or symptoms. Although such effects are uncommon after administration of VENTOLIN Inhalation Aerosol at recommended doses, if they occur, the drug may need to be discontinued. In addition, beta-agonists have been reported to produce electrocardiogram (ECG) changes, such as flattening of the T wave, prolongation of the QT_c interval, and ST segment depression. The clinical significance of these findings is unknown. Therefore, VENTOLIN Inhalation Aerosol, like all sympathomimetic amines, should be used with caution in patients with cardiovascular disorders, especially coronary insufficiency, cardiac arrhythmias, and hypertension.

Deterioration of Asthma: Asthma may deteriorate acutely over a period of hours or chronically over several days or longer. If the patient needs more doses of VENTOLIN Inhalation Aerosol than usual, this may be a marker of destabilization of asthma and requires reevaluation of the patient and treatment regimen, giving special consideration to the possible need for anti-inflammatory treatment, e.g., corticosteroids.

Use of Anti-Inflammatory Agents: The use of beta-adrenergic agonist bronchodilators alone may not be adequate to control asthma in many patients. Early consideration should be given to adding anti-inflammatory agents, e.g., corticosteroids.

Immediate Hypersensitivity Reactions: Immediate hypersensitivity reactions may occur after administration of albuterol inhalation aerosol, as demonstrated by rare cases of urticaria, angioedema, rash, bronchospasm, anaphylaxis, and oropharyngeal edema.

The contents of VENTOLIN Inhalation Aerosol are under pressure. Do not puncture. Do not use or store near heat or open flame. Exposure to temperatures above 120°F may cause bursting. Never throw container into fire or incinerator. Keep out of reach of children.

PRECAUTIONS:

VENTOLIN® (albuterol, USP) Inhalation Aerosol

General: Albuterol, as with all sympathomimetic amines, should be used with caution in patients with cardiovascular disorders, especially coronary insufficiency, cardiac arrhythmias, and hypertension; in patients with convulsive disorders, hyperthyroidism, or diabetes mellitus; and in patients who are unusually responsive to sympathomimetic amines. Clinically significant changes in systolic and diastolic blood pressure have been seen in individual patients and could be expected to occur in some patients after use of any beta-adrenergic bronchodilator.

Large doses of intravenous albuterol have been reported to aggravate preexisting diabetes mellitus and ketoacidosis. As with other beta-agonists, albuterol may produce significant hypokalemia in some patients, possibly through intracellular shunting, which has the potential to produce adverse cardiovascular effects. The decrease is usually transient, not requiring supplementation.

Although there have been no reports concerning the use of VENTOLIN Inhalation Aerosol during labor and delivery, it has been reported that high doses of albuterol administered intravenously inhibit uterine contractions. Although this effect is extremely unlikely as a consequence of aerosol use, it should be kept in mind.

Information for Patients: The action of VENTOLIN Inhalation Aerosol may last up to 6 hours or longer. VENTOLIN Inhalation Aerosol should not be used more frequently than recommended. Do not increase the dose or frequency of VENTOLIN Inhalation Aerosol without consulting your physician. If you find that treatment with VENTOLIN Inhalation Aerosol becomes less effective for symptomatic relief, your symptoms become worse, and/or you need to use the product more frequently than usual, you should seek medical attention immediately. While you are using VENTOLIN Inhalation Aerosol, other inhaled drugs and asthma medications should be taken only as directed by your physician. Common adverse effects include palpitations, chest pain, rapid heart rate, and tremor or nervousness. If you are pregnant or nursing, contact your physician about use of VENTOLIN Inhalation Aerosol. Effective and safe use of VENTOLIN Inhalation Aerosol includes an understanding of the way that it should be administered.

In general, the technique for administering VENTOLIN Inhalation Aerosol to children is similar to that for adults, since children's smaller ventilatory exchange capacity automatically provides proportionally smaller aerosol intake. Children should use VENTOLIN Inhalation Aerosol under adult supervision, as instructed by the patient's physician.

See illustrated Patient's Instructions for Use.

Drug Interactions: Other short-acting sympathomimetic aerosol bronchodilators should not be used concomitantly with albuterol. If additional adrenergic drugs are to be administered by any route, they should be used with caution to avoid deleterious cardiovascular effects.

Monoamine Oxidase Inhibitors or Tricyclic Antidepressants: Albuterol should be administered with extreme caution to patients being treated with monoamine oxidase inhibitors or tricyclic antidepressants, or within 2 weeks of discontinuation of such agents, because the action of albuterol on the vascular system may be potentiated.

Beta-Blockers: Beta-adrenergic receptor blocking agents not only block the pulmonary effect of beta-agonists, such as VENTOLIN Inhalation Aerosol, but may produce severe bronchospasm in asthmatic patients. Therefore, patients with asthma should not normally be treated with beta-blockers. However, under certain circumstances, e.g., as prophylaxis after myocardial infarction, there may be no acceptable alternatives to the use of beta-adrenergic blocking agents in patients with asthma. In this setting, cardioselective beta-blockers could be considered, although they should be administered with caution.

VENTOLIN® (albuterol, USP) Inhalation Aerosol

Diuretics: The ECG changes and/or hypokalemia that may result from the administration of nonpotassium-sparing diuretics (such as loop or thiazide diuretics) can be acutely worsened by beta-agonists, especially when the recommended dose of the beta-agonist is exceeded. Although the clinical significance of these effects is not known, caution is advised in the coadministration of beta-agonists with nonpotassium-sparing diuretics.

Digoxin: Mean decreases of 16% to 22% in serum digoxin levels were demonstrated after single-dose intravenous and oral administration of albuterol, respectively, to normal volunteers who had received digoxin for 10 days. The clinical significance of these findings for patients with obstructive airway disease who are receiving albuterol and digoxin on a chronic basis is unclear. Nevertheless, it would be prudent to carefully evaluate the serum digoxin levels in patients who are currently receiving digoxin and albuterol.

Carcinogenesis, Mutagenesis, Impairment of Fertility: In a 2-year study in Sprague-Dawley rats, albuterol sulfate caused a significant dose-related increase in the incidence of benign leiomyomas of the mesovarium at dietary doses of 2.0, 10, and 50 mg/kg (approximately 15, 70, and 340 times, respectively, the maximum recommended daily inhalation dose for adults on a mg/m² basis or approximately 6, 30, and 160 times, respectively, the maximum recommended daily inhalation dose for children on a mg/m² basis). In another study this effect was blocked by the coadministration of propranolol, a non-selective beta-adrenergic antagonist. In an 18-month study in CD-1 mice albuterol sulfate showed no evidence of tumorigenicity at dietary doses of up to 500 mg/kg (approximately 1700 times the maximum recommended daily inhalation dose for adults on a mg/m² basis or approximately 800 times the maximum recommended daily inhalation dose for children on a mg/m² basis). In a 22-month study in the Golden hamster albuterol sulfate showed no evidence of tumorigenicity at dietary doses of up to 50 mg/kg (approximately 225 times the maximum recommended daily inhalation dose for adults on a mg/m² basis or approximately 110 times the maximum recommended daily inhalation dose for children on a mg/m² basis).

Albuterol sulfate was not mutagenic in the Ames test with or without metabolic activation using tester strains *S. typhimurium* TA1537, TA1538, and TA98 or *E. coli* WP2, WP2uvrA, and WP67. No forward mutation was seen in yeast strain *S. cerevisiae* S9 nor any mitotic gene conversion in yeast strain *S. cerevisiae* JD1 with or without metabolic activation. Fluctuation assays in *S. typhimurium* TA98 and *E. coli* WP2, both with metabolic activation, were negative. Albuterol sulfate was not clastogenic in a human peripheral lymphocyte assay or in an AH1 strain mouse micronucleus assay at intraperitoneal doses of up to 200 mg/kg.

Reproduction studies in rats demonstrated no evidence of impaired fertility at oral doses up to 50 mg/kg (approximately 340 times the maximum recommended daily inhalation dose for adults on a mg/m² basis).

Pregnancy: Teratogenic Effects: Pregnancy Category C. Albuterol sulfate has been shown to be teratogenic in mice. A study in CD-1 mice at subcutaneous doses of 0.025, 0.25, and 2.5 mg/kg (approximately 2/25, 1.0, and 8.0 times, respectively, the maximum recommended daily inhalation dose for adults on a mg/m² basis), showed cleft palate formation in 5 of 111 (4.5%) fetuses at 0.25 mg/kg and in 10 of 108 (9.3%) fetuses at 2.5 mg/kg. The drug did not induce cleft palate formation at the lowest dose, 0.025 mg/kg. Cleft palate also occurred in 22 of 72 (30.5%) fetuses from females treated with 2.5 mg/kg of isoproterenol (positive control) subcutaneous (approximately 8 times the maximum recommended daily inhalation dose for adults on a mg/m² basis).

VENTOLIN® (albuterol, USP) Inhalation Aerosol

A reproduction study in Stride Dutch rabbits revealed cranioschisis in 7 of 19 (37%) fetuses when albuterol sulfate was administered orally at a 50 mg/kg dose (approximately 680 times the maximum recommended daily inhalation dose for adults on a mg/m² basis).

There are no adequate and well-controlled studies in pregnant women. Albuterol should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

During worldwide marketing experience, various congenital anomalies, including cleft palate and limb defects, have been rarely reported in the offspring of patients being treated with albuterol. Some of the mothers were taking multiple medications during their pregnancies. No consistent pattern of defects can be discerned, and a relationship between albuterol use and congenital anomalies has not been established.

Use in Labor and Delivery: Because of the potential for beta-agonist interference with uterine contractility, use of VENTOLIN Inhalation Aerosol for relief of bronchospasm during labor should be restricted to those patients in whom the benefits clearly outweigh the risk.

Tocolysis: Albuterol has not been approved for the management of preterm labor. The benefit:risk ratio when albuterol is administered for tocolysis has not been established. Serious adverse reactions, including maternal pulmonary edema, have been reported during or following treatment of premature labor with beta₂-agonists, including albuterol.

Nursing Mothers: It is not known whether this drug is excreted in human milk. Because of the potential for tumorigenicity shown for albuterol in some animal studies, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use: Safety and effectiveness in children below 4 years of age have not been established.

ADVERSE REACTIONS: The adverse reactions to albuterol are similar in nature to reactions to other sympathomimetic agents, although the incidence of certain cardiovascular effects is lower with albuterol.

Percent Incidence of Adverse Reactions in Patients ≥12 Years of Age in a 13-Week Clinical Trial*

Reaction	Percent Incidence	
	Albuterol	Isoproterenol
Tremor	<15%	<15%
Nausea	<15%	<15%
Tachycardia	10%	10%
Palpitations	<10%	<15%
Nervousness	<10%	<15%
Increased blood pressure	<5%	<5%
Dizziness	<5%	<5%
Heartburn	<5%	<5%

* A 13-week double-blind study compared albuterol and isoproterenol inhalation aerosols in 147 asthmatic patients.

VENTOLIN® (albuterol, USP) Inhalation Aerosol

Percent Incidence of Adverse Reactions in Children 4 to 11 Years of Age in a 12-Week Trial*

Reaction	Percent Incidence
Central nervous system	
Headache	3%
Nervousness	1%
Lightheadedness	<1%
Tremor	<1%
Agitation	1%
Nightmares	1%
Hyperactivity	1%
Aggressive behavior	1%
Gastrointestinal	
Nausea and/or vomiting	6%
Stomachache	3%
Diarrhea	1%
Oropharyngeal	
Throat irritation	6%
Discoloration of teeth	1%
Respiratory	
Epistaxis	3%
Cough	2%
Musculoskeletal	
Muscle cramp	1%

*A 12-week double-blind trial in 104 patients aged 4 to 11 years.

Cases of urticaria, angioedema, rash, bronchospasm, hoarseness, oropharyngeal edema, and arrhythmias (including atrial fibrillation, supraventricular tachycardia, extrasystoles) have been reported after the use of VENTOLIN Inhalation Aerosol.

In addition, albuterol, like other sympathomimetic agents, can cause adverse reactions such as hypertension, angina, vertigo, central nervous system stimulation, sleeplessness, and unusual taste.

OVERDOSAGE: The expected symptoms with overdosage are those of excessive beta-adrenergic stimulation and/or occurrence or exaggeration of any of the symptoms listed under ADVERSE REACTIONS, e.g., seizures, angina, hypertension or hypotension, tachycardia with rates up to 200 beats/min, arrhythmias, nervousness, headache, tremor, dry mouth, palpitation, nausea, dizziness, fatigue, malaise, and sleeplessness. Hypokalemia may also occur.

As with all sympathomimetic aerosol medications, cardiac arrest and even death may be associated with abuse of VENTOLIN Inhalation Aerosol. Treatment consists of discontinuation of VENTOLIN Inhalation Aerosol together with appropriate symptomatic therapy. The judicious use of a cardioselective beta-receptor blocker may be considered, bearing in mind that such medication can

VENTOLIN® (albuterol, USP) Inhalation Aerosol

produce bronchospasm. There is insufficient evidence to determine if dialysis is beneficial for overdosage of VENTOLIN Inhalation Aerosol.

The oral median lethal dose of albuterol sulfate in mice is greater than 2000 mg/kg (approximately 6800 times the maximum recommended daily inhalation dose for adults on a mg/m² basis or approximately 3200 times the maximum recommended daily inhalation dose for children on a mg/m² basis). In mature rats, the subcutaneous median lethal dose of albuterol sulfate is approximately 450 mg/kg (approximately 3000 times the maximum recommended daily inhalation dose for adults on a mg/m² basis or approximately 1400 times the maximum recommended daily inhalation dose for children on a mg/m² basis). In small young rats, the subcutaneous median lethal dose is approximately 2000 mg/kg (approximately 14,000 times the maximum recommended daily inhalation dose for adults on a mg/m² basis or approximately 6400 times the maximum recommended daily inhalation dose for children on a mg/m² basis). The inhalation median lethal dose has not been determined in animals.

DOSAGE AND ADMINISTRATION: For treatment of acute episodes of bronchospasm or prevention of asthmatic symptoms, the usual dosage for adults and children 4 years of age and older is 2 inhalations repeated every 4 to 6 hours; in some patients, 1 inhalation every 4 hours may be sufficient. More frequent administration or a larger number of inhalations are not recommended. It is recommended to “test spray” VENTOLIN Inhalation Aerosol. Do this by spraying 4 times into the air before using for the first time and when the inhaler has not been used for a prolonged period of time (i.e., more than 4 weeks).

The use of VENTOLIN Inhalation Aerosol can be continued as medically indicated to control recurring bouts of bronchospasm. During this time most patients gain optimal benefit from regular use of the inhaler. Safe usage for periods extending over several years has been documented.

If a previously effective dosage regimen fails to provide the usual response, this may be a marker of destabilization of asthma and requires reevaluation of the patient and the treatment regimen, giving special consideration to the possible need for anti-inflammatory treatment, e.g., corticosteroids.

Exercise-Induced Bronchospasm Prevention: The usual dosage for adults and children 4 years and older is 2 inhalations 15 minutes before exercise.

For treatment, see above.

HOW SUPPLIED: VENTOLIN Inhalation Aerosol is supplied in 6.8-g canisters containing 80 metered inhalations (NDC 0173-0463-00) and in 17-g canisters containing 200 metered inhalations (NDC 0173-0321-88), each in boxes of 1. Each actuation delivers 100 mcg of albuterol from the valve and 90 mcg of albuterol from the mouthpiece. Each canister is supplied with a blue oral adapter and patient's instructions. Also available, VENTOLIN Inhalation Aerosol Refill 17-g canister only with patient's instructions (NDC 0173-0321-98).

The blue adapter supplied with VENTOLIN Inhalation Aerosol should not be used with any other product canisters, and adapters from other products should not be used with a VENTOLIN Inhalation Aerosol canister. The correct amount of medication in each canister cannot be assured after 80 actuations from the 6.8-g canister and 200 actuations from the 17.0-g canister, even though the canister is not completely empty. The canister should be discarded when the labeled number of actuations have been used.

VENTOLIN® (albuterol, USP) Inhalation Aerosol

Store between 15° and 30°C (59° and 86°F). As with most inhaled medications in aerosol canisters, the therapeutic effect of this medication may decrease when the canister is cold; for best results, the canister should be at room temperature before use. Shake well before using.

Note the indented statement below is required by the Federal government Clean Air Act for all products containing chlorofluorocarbons.

WARNING: This product contains trichloromonofluoromethane and dichlorodifluoromethane, substances which harm public health and environment by destroying ozone in the upper atmosphere.

A notice similar to the above warning has been placed in the patient instruction leaflet of this package insert pursuant to regulations of the U.S. Environmental Protection Agency (EPA). The patient's warning states that the patient should consult his or her physician if there are questions about alternatives.

GlaxoWellcome

Glaxo Wellcome Inc.

Research Triangle Park, NC 27709

March 20000

RL-802

PHARMACIST—DETACH HERE AND GIVE INSTRUCTIONS TO PATIENT.
THIS LEAFLET SHOULD ACCOMPANY EACH VENTOLIN INHALATION AEROSOL
OR REFILL DISPENSED.

Patient's Instructions for Use

Before using your VENTOLIN® (albuterol, USP) Inhalation Aerosol, read complete instructions carefully.

Children should use VENTOLIN Inhalation Aerosol under adult supervision, as instructed by the patient's doctor.

The blue adapter supplied with VENTOLIN Inhalation Aerosol should not be used with any other product canisters, and adapters from other products should not be used with a VENTOLIN Inhalation Aerosol canister. The refill canister is to be used only with the blue VENTOLIN Inhalation Aerosol adapter.

1. SHAKE THE INHALER WELL immediately before each use. Then remove the cap from the mouthpiece; the strap on the cap will stay attached to the actuator. If the strap is removed from the actuator and lost, the inhaler mouthpiece should be inspected for the presence of foreign objects before each use. Make sure the canister is fully and firmly inserted into the actuator.

VENTOLIN® (albuterol, USP) Inhalation Aerosol

2. BREATHE OUT FULLY THROUGH THE MOUTH, expelling as much air from your lungs as possible. Place the mouthpiece fully into the mouth, holding the inhaler in its upright position (see Figure 1) and closing the lips around it.

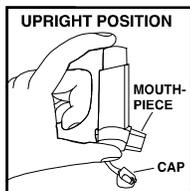


Figure 1

3. WHILE BREATHING IN DEEPLY AND SLOWLY THROUGH THE MOUTH, FULLY DEPRESS THE TOP OF THE METAL CANISTER with your index finger (see Figure 2).



Figure 2

4. HOLD YOUR BREATH AS LONG AS POSSIBLE. Before breathing out, remove the inhaler from your mouth and release your finger from the canister.

5. Wait one minute and **SHAKE** the inhaler again. Repeat steps 2 through 4 for each inhalation prescribed by your doctor.

6. CLEANSE THE INHALER THOROUGHLY AND FREQUENTLY. Remove the metal canister and cleanse the plastic case and cap by rinsing thoroughly in warm, running water at least once a day. After thoroughly drying the plastic case and cap, gently replace the canister into the case with a twisting motion and put the cap back onto the mouthpiece.

7. As with all aerosol medications, it is recommended to "test spray" the inhaler. Do this by spraying 4 times into the air before using for the first time and when the inhaler has not been used for a prolonged period of time (i.e., more than 4 weeks).

8. DISCARD THE CANISTER AFTER YOU HAVE USED THE LABELED NUMBER OF INHALATIONS. The correct amount of medication in each inhalation cannot be assured after 80 actuations from the 6.8-g canister and 200 actuations from the 17.0-g canister, even though the canister is not completely empty. The canister should be discarded when the labeled number of actuations have been used. Before you reach the specific number of actuations, you should consult your physician to determine whether a refill is needed. Just as you should not take extra doses without consulting your physician, you also should not stop using VENTOLIN Inhalation Aerosol without consulting your physician.

VENTOLIN® (albuterol, USP) Inhalation Aerosol

DOSAGE: Use only as directed by your doctor.

WARNINGS: The action of VENTOLIN Inhalation Aerosol may last up to 6 hours or longer. VENTOLIN Inhalation Aerosol should not be used more frequently than recommended. Do not increase the dose or frequency of VENTOLIN Inhalation Aerosol without consulting your doctor. If you find that treatment with VENTOLIN Inhalation Aerosol becomes less effective for symptomatic relief, your symptoms become worse, and/or you need to use the product more frequently than usual, you should seek medical attention immediately. While you are using VENTOLIN Inhalation Aerosol, other inhaled drugs and asthma medicines should be used only as directed by your doctor.

Contents Under Pressure: Do not puncture. Do not use or store near heat or open flame. Exposure to temperatures above 120°F may cause bursting. Never throw container into fire or incinerator. Keep out of reach of children. Avoid spraying in eyes.

Store between 15° and 30°C (59° and 86°F). As with most inhaled medications in aerosol canisters, the therapeutic effect of this medication may decrease when the canister is cold; for best results, the canister should be at room temperature before use. Shake well before using.

Note the indented statement below is required by the Federal government Clean Air Act for all products containing chlorofluorocarbons.

This product contains trichloromonofluoromethane and dichlorodifluoromethane, substances which harm the environment by depleting ozone in the upper atmosphere.

Your doctor has determined that this product is likely to help your personal health. USE THIS PRODUCT AS DIRECTED UNLESS INSTRUCTED TO DO OTHERWISE BY YOUR DOCTOR. If you have any questions about alternatives, consult your doctor.

GlaxoWellcome

Glaxo Wellcome Inc.

Research Triangle Park, NC 27709

March 2000

RL-802