FLOVENT DISKUS- fluticasone propionate powder, metered GlaxoSmithKline LLC

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These highlights do not include all the information needed to use FLOVENT DISKUS safely and effectively. See full prescribing information for FLOVENT DISKUS.

FLOVENT DISKUS 50 mcg

(fluticasone propionate inhalation powder, 50 mcg)

FLOVENT DISKUS 100 mcg

(fluticasone propionate inhalation powder, 100 mcg)

FLOVENT DISKUS 250 mcg

(fluticasone propionate inhalation powder, 250 mcg)

FOR ORAL INHALATION USE Initial U.S. Approval: 1994

------ INDICATIONS AND USAGE -----

FLOVENT DISKUS is an inhaled corticosteroid indicated for:

- Maintenance treatment of asthma as prophylactic therapy in patients aged 4 years and older. (1)
- Treatment of asthma in patients requiring oral corticosteroid therapy. (1)

Important limitation:

• Not indicated for the relief of acute bronchospasm. (1)

------DOSAGE AND ADMINISTRATION ------

For oral inhalation only. Dosing is based on prior asthma therapy. (2)

Previous Therapy	Recommended Starting Dosage	Highest Recommended Dosage
Patients aged 12 years and older		
Bronchodilators alone	100 mcg twice daily	500 mcg twice daily
Inhaled corticosteroids	100-250 mcg twice daily	500 mcg twice daily
Oral corticosteroids	500-1,000 mcg twice daily	1,000 mcg twice daily
Patients aged 4-11 years	50 mcg twice daily	100 mcg twice daily

----- DOSAGE FORMS AND STRENGTHS

Inhalation Powder. Inhaler containing fluticasone propionate (50, 100, or 250 mcg) as a powder formulation for oral inhalation. (3)

- Primary treatment of status asthmaticus or acute episodes of asthma requiring intensive measures. (4)
- Severe hypersensitivity to milk proteins. (4)

• Candida albicans infection of the mouth and pharynx may occur. Monitor patients periodically. Advise the patient to

------ WARNINGS AND PRECAUTIONS ------

------CONTRAINDICATIONS -----

- rinse his/her mouth with water without swallowing after inhalation to help reduce the risk. (5.1)

 Potential worsening of infections (e.g., existing tuberculosis; fungal, bacterial, viral, or parasitic infection; ocular herpes simplex). Use with caution in patients with these infections. More serious or even fatal course of chickenpox or
- measles can occur in susceptible patients. (5.3)

 Risk of impaired adrenal function when transferring from systemic corticosteroids. Taper patients slowly from
- Hypercorticism and adrenal suppression may occur with very high dosages or at the regular dosage in susceptible individuals. If such changes occur, discontinue FLOVENT DISKUS slowly. (5.5)
- Assess for decrease in bone mineral density initially and periodically thereafter. (5.7)
- Monitor growth of pediatric patients. (5.8)
- Close monitoring for glaucoma and cataracts is warranted. (5.9)

systemic corticosteroids if transferring to FLOVENT DISKUS. (5.4)

ADVERSE REACTIONS
Most common adverse reactions (incidence >3%) include upper respiratory tract infection or inflammation, throat
irritation, sinusitis, rhinitis, oral candidiasis, nausea and vomiting, gastrointestinal discomfort, fever, cough, bronchitis, and
headache. (6.1)
To report SUSPECTED ADVERSE REACTIONS, contact GlaxoSmithKline at 1-888-825-5249 or FDA at 1-800-
FDA-1088 or www.fda.gov/medwatch.
DRUG INTERACTIONS
Strong cytochrome P450 3A4 inhibitors (e.g., ritonavir, ketoconazole): Use not recommended. May increase risk of systemic corticosteroid effects (7.1)
USE IN SPECIFIC POPULATIONS
Hepatic impairment: Monitor patients for signs of increased drug exposure. (8.6)
See 17 for PATIENT COUNSELING INFORMATION and FDA-approved nation Labeling

Revised: 5/2014

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

FLOVENT[®] DISKUS[®] is indicated for the maintenance treatment of asthma as prophylactic therapy in patients aged 4 years and older. It is also indicated for patients requiring oral corticosteroid therapy for asthma. Many of these patients may be able to reduce or eliminate their requirement for oral corticosteroids over time.

<u>Important Limitation of Use:</u> FLOVENT DISKUS is NOT indicated for the relief of acute bronchospasm.

2 DOSAGE AND ADMINISTRATION

Flovent DISKUS should be administered by the orally inhaled route only in patients aged 4 years and older. After inhalation, the patient should rinse his/her mouth with water without swallowing to help reduce the risk of oropharyngeal candidiasis.

Individual patients will experience a variable time to onset and degree of symptom relief. Maximum benefit may not be achieved for 1 to 2 weeks or longer after starting treatment.

After asthma stability has been achieved, it is always desirable to titrate to the lowest effective dosage to reduce the possibility of side effects. For patients who do not respond adequately to the starting dosage after 2 weeks of therapy, higher dosages may provide additional asthma control. The safety and efficacy of FLOVENT DISKUS when administered in excess of recommended dosages have not been established.

The recommended starting dosage and the highest recommended dosage of FLOVENT DISKUS, based on prior asthma therapy, are listed in Table 1.

Table 1. Recommended Dosages of FLOVENT DISKUS

NOTE: In all patients, it is desirable to titrate to the lowest effective dosage once as thma stability is achieved.

	Recommended Starting	Highest Recommended
Previous Therapy	Dosage	Dosage
Adult and adoles cent patients (aged 12 years		
and older)		
Bronchodilators alone	100 mcg twice daily	500 mcg twice daily
Inhaled corticosteroids	100-250 mcg twice daily ^a	500 mcg twice daily
Oral corticosteroids ^b	500-1,000 mcg twice daily ^c	1,000 mcg twice daily
Pediatric patients (aged 4-11 years) ^d	50 mcg twice daily ^a	100 mcg twice daily

^aStarting dosages above 100 mcg twice daily for adult and adolescent patients and 50 mcg twice daily for pediatric patients aged 4 to 11 years may be considered for patients with poorer asthma control or those who have previously required doses of inhaled corticosteroids that are in the higher range for the specific agent.

^bFor patients currently receiving chronic oral corticosteroid therapy, prednisone should be reduced no faster than 2.5 to 5 mg/day on a weekly basis beginning after at least 1 week of therapy with FLOVENT DISKUS. Patients should be carefully monitored for signs of asthma instability, including serial objective measures of airflow, and for signs of adrenal insufficiency [see Warnings and Precautions (5.4)]. Once prednisone reduction is complete, the dosage of FLOVENT DISKUS should be reduced to the lowest effective dosage.

^cThe choice of starting dosage should be made on the basis of individual patient assessment. A controlled clinical trial of 111 oral corticosteroid-dependent subjects with asthma showed few significant differences between the 2 doses of FLOVENT DISKUS on safety and efficacy endpoints. However, inability to decrease the dose of oral corticosteroids further during corticosteroid reduction may be indicative of the need to increase the dose of fluticasone propionate up to the maximum of 1,000 mcg twice daily.

^dBecause individual responses may vary, pediatric patients previously maintained on other inhaled corticosteroids may require dosage adjustments upon transfer to FLOVENT DISKUS.

3 DOSAGE FORMS AND STRENGTHS

Inhalation Powder. Inhaler containing a foil blister strip of powder formulation for oral inhalation. The strip contains fluticasone propionate 50, 100, or 250 mcg per blister.

4 CONTRAINDICATIONS

The use of FLOVENT DISKUS is contraindicated in the following conditions:

- Primary treatment of status asthmaticus or other acute episodes of asthma where intensive measures are required [see Warnings and Precautions (5.2)]
- Severe hypersensitivity to milk proteins [see Warnings and Precautions (5.6), Adverse Reactions (6.2), Description (11)]

5 WARNINGS AND PRECAUTIONS

5.1 Local Effects of Inhaled Corticosteroids

In clinical trials, the development of localized infections of the mouth and pharynx with *Candida albicans* has occurred in subjects treated with FLOVENT DISKUS. When such an infection develops, it should be treated with appropriate local or systemic (i.e., oral) antifungal therapy while treatment with FLOVENT DISKUS continues, but at times therapy with FLOVENT DISKUS may need to be interrupted. Advise the patient to rinse his/her mouth with water without swallowing following inhalation to help reduce the risk of oropharyngeal candidiasis.

5.2 Acute Asthma Episodes

FLOVENT DISKUS is not to be regarded as a bronchodilator and is not indicated for rapid relief of bronchospasm. Patients should be instructed to contact their physicians immediately when episodes of asthma that are not responsive to bronchodilators occur during the course of treatment with FLOVENT DISKUS. During such episodes, patients may require therapy with oral corticosteroids.

5.3 Immunosuppression

Persons who are using drugs that suppress the immune system are more susceptible to infections than healthy individuals. Chickenpox and measles, for example, can have a more serious or even fatal course in susceptible children or adults using corticosteroids. In such children or adults who have not had these diseases or been properly immunized, particular care should be taken to avoid exposure. How the dose, route, and duration of corticosteroid administration affect the risk of developing a disseminated infection is not known. The contribution of the underlying disease and/or prior corticosteroid treatment to the risk is also not known. If a patient is exposed to chickenpox, prophylaxis with varicella zoster immune globulin (VZIG) may be indicated. If a patient is exposed to measles, prophylaxis with pooled intramuscular immunoglobulin (IG) may be indicated. (See the respective package inserts for complete VZIG and IG prescribing information.) If chickenpox develops, treatment with antiviral agents may be considered.

Inhaled corticosteroids should be used with caution, if at all, in patients with active or quiescent tuberculosis infections of the respiratory tract; systemic fungal, bacterial, viral or parasitic infections; or ocular herpes simplex.

5.4 Transferring Patients From Systemic Corticosteroid Therapy

Particular care is needed for patients who have been transferred from systemically active corticosteroids to inhaled corticosteroids because deaths due to adrenal insufficiency have occurred in patients with asthma during and after transfer from systemic corticosteroids to less systemically available inhaled corticosteroids. After withdrawal from systemic corticosteroids, a number of months are required for recovery of hypothalamic-pituitary-adrenal (HPA) function.

Patients who have been previously maintained on 20 mg or more of prednisone (or its equivalent) may be most susceptible, particularly when their systemic corticosteroids have been almost completely withdrawn. During this period of HPA suppression, patients may exhibit signs and symptoms of adrenal insufficiency when exposed to trauma, surgery, or infection (particularly gastroenteritis) or other conditions associated with severe electrolyte loss. Although FLOVENT DISKUS may control asthma symptoms during these episodes, in recommended doses it supplies less than normal physiological amounts of glucocorticoid systemically and does NOT provide the mineralocorticoid activity that is necessary for coping with these emergencies.

During periods of stress or a severe asthma attack, patients who have been withdrawn from systemic corticosteroids should be instructed to resume oral corticosteroids (in large doses) immediately and to contact their physicians for further instruction. These patients should also be instructed to carry a warning card indicating that they may need supplementary systemic corticosteroids during periods of stress or a severe asthma attack.

Patients requiring oral corticosteroids should be weaned slowly from systemic corticosteroid use after transferring to FLOVENT DISKUS. Prednisone reduction can be accomplished by reducing the daily prednisone dose by 2.5 mg on a weekly basis during therapy with FLOVENT DISKUS. Lung function (mean forced expiratory volume in 1 second [FEV $_1$] or morning peak expiratory flow [AM PEF]), beta-agonist use, and asthma symptoms should be carefully monitored during withdrawal of oral corticosteroids. In addition, patients should be observed for signs and symptoms of adrenal insufficiency, such as fatigue, lassitude, weakness, nausea and vomiting, and hypotension.

Transfer of patients from systemic corticosteroid therapy to FLOVENT DISKUS may unmask allergic conditions previously suppressed by the systemic corticosteroid therapy (e.g., rhinitis, conjunctivitis, eczema, arthritis, eosinophilic conditions).

During withdrawal from oral corticosteroids, some patients may experience symptoms of systemically active corticosteroid withdrawal (e.g., joint and/or muscular pain, lassitude, depression) despite maintenance or even improvement of respiratory function.

5.5 Hypercorticism and Adrenal Suppression

Fluticasone propionate will often help control asthma symptoms with less suppression of HPA function

than therapeutically equivalent oral doses of prednisone. Since fluticasone propionate is absorbed into the circulation and can be systemically active at higher doses, the beneficial effects of FLOVENT DISKUS in minimizing HPA dysfunction may be expected only when recommended dosages are not exceeded and individual patients are titrated to the lowest effective dose. A relationship between plasma levels of fluticasone propionate and inhibitory effects on stimulated cortisol production has been shown after 4 weeks of treatment with fluticasone propionate inhalation aerosol. Since individual sensitivity to effects on cortisol production exists, physicians should consider this information when prescribing FLOVENT DISKUS.

Because of the possibility of significant systemic absorption of inhaled corticosteroids in sensitive patients, patients treated with FLOVENT DISKUS should be observed carefully for any evidence of systemic corticosteroid effects. Particular care should be taken in observing patients postoperatively or during periods of stress for evidence of inadequate adrenal response.

It is possible that systemic corticosteroid effects such as hypercorticism and adrenal suppression (including adrenal crisis) may appear in a small number of patients who are sensitive to these effects. If such effects occur, FLOVENT DISKUS should be reduced slowly, consistent with accepted procedures for reducing systemic corticosteroids, and other treatments for management of asthma symptoms should be considered.

5.6 Immediate Hypersensitivity Reactions

Immediate hypersensitivity reactions (e.g., urticaria, angioedema, rash, bronchospasm, hypotension), including anaphylaxis, may occur after administration of FLOVENT DISKUS. There have been reports of anaphylactic reactions in patients with severe milk protein allergy after inhalation of powder products containing lactose; therefore, patients with severe milk protein allergy should not use FLOVENT DISKUS [see Contraindications (4)].

5.7 Reduction in Bone Mineral Density

Decreases in bone mineral density (BMD) have been observed with long-term administration of products containing inhaled corticosteroids. The clinical significance of small changes in BMD with regard to long-term consequences such as fracture is unknown. Patients with major risk factors for decreased bone mineral content, such as prolonged immobilization, family history of osteoporosis, postmenopausal status, tobacco use, advanced age, poor nutrition, or chronic use of drugs that can reduce bone mass (e.g., anticonvulsants, oral corticosteroids) should be monitored and treated with established standards of care.

A 2-year trial in 160 subjects (females aged 18 to 40 years, males 18 to 50) with asthma receiving CFC-propelled fluticasone propionate inhalation aerosol 88 or 440 mcg twice daily demonstrated no statistically significant changes in BMD at any time point (24, 52, 76, and 104 weeks of double-blind treatment) as assessed by dual-energy x-ray absorptiometry at lumbar regions L1 through L4.

5.8 Effect on Growth

Orally inhaled corticosteroids may cause a reduction in growth velocity when administered to pediatric patients. Monitor the growth of pediatric patients receiving FLOVENT DISKUS routinely (e.g., via stadiometry). To minimize the systemic effects of orally inhaled corticosteroids, including FLOVENT DISKUS, titrate each patient's dosage to the lowest dosage that effectively controls his/her symptoms [see Dosage and Administration (2), Use in Specific Populations (8.4)].

5.9 Glaucoma and Cataracts

Glaucoma, increased intraocular pressure, and cataracts have been reported in patients following the long-term administration of inhaled corticosteroids, including fluticasone propionate. Therefore, close monitoring is warranted in patients with a change in vision or with a history of increased intraocular pressure, glaucoma, and/or cataracts.

5.10 Paradoxical Bronchospasm

As with other inhaled medicines, bronchospasm may occur with an immediate increase in wheezing after dosing. If bronchospasm occurs following dosing with FLOVENT DISKUS, it should be treated immediately with an inhaled, short-acting bronchodilator; FLOVENT DISKUS should be discontinued immediately; and alternative therapy should be instituted.

5.11 Drug Interactions With Strong Cytochrome P450 3A4 Inhibitors

The use of strong cytochrome P450 3A4 (CYP3A4) inhibitors (e.g., ritonavir, atazanavir, clarithromycin, indinavir, itraconazole, nefazodone, nelfinavir, saquinavir, ketoconazole, telithromycin) with FLOVENT DISKUS is not recommended because increased systemic corticosteroid adverse effects may occur [see Drug Interactions (7.1), Clinical Pharmacology (12.3)].

5.12 Eosinophilic Conditions and Churg-Strauss Syndrome

In rare cases, patients on inhaled fluticasone propionate may present with systemic eosinophilic conditions. Some of these patients have clinical features of vasculitis consistent with Churg-Strauss syndrome, a condition that is often treated with systemic corticosteroid therapy. These events usually, but not always, have been associated with the reduction and/or withdrawal of oral corticosteroid therapy following the introduction of fluticasone propionate. Cases of serious eosinophilic conditions have also been reported with other inhaled corticosteroids in this clinical setting. Physicians should be alert to eosinophilia, vasculitic rash, worsening pulmonary symptoms, cardiac complications, and/or neuropathy presenting in their patients. A causal relationship between fluticasone propionate and these underlying conditions has not been established.

6 ADVERSE REACTIONS

Systemic and local corticosteroid use may result in the following:

- Candida albicans infection [see Warnings and Precautions (5.1)]
- Immunosuppression [see Warnings and Precautions (5.3)]
- Hypercorticism and adrenal suppression [see Warnings and Precautions (5.5)]
- Reduction in bone mineral density [see Warnings and Precautions (5.7)]
- Growth effects [see Warnings and Precautions (5.8)]
- Glaucoma and cataracts [see Warnings and Precautions (5.9)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared with rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The incidence of common adverse reactions in Table 2 is based upon 7 placebo-controlled US clinical trials in which 1,176 pediatric, adolescent, and adult subjects (466 females and 710 males) previously treated with as-needed bronchodilators and/or inhaled corticosteroids were treated twice daily for up to 12 weeks with FLOVENT DISKUS (doses of 50 to 500 mcg) or placebo.

Table 2. Adverse Reactions With FLOVENT DISKUS With >3% Incidence and More Common Than Placebo in Subjects With Asthma

FLOVENT	FLOVENT	FLOVENT	FLOVENT	
DISKUS 50	DISKUS 100	DISKUS 250	DISKUS 500	
mcg Twice	mcg Twice	mcg Twice	mcg Twice	
Daily	Daily	Daily	Daily	Placebo

Adverse Event Ear, nose, and throat	(n = 178) %	(n = 305) %	(n = 86) %	(n = 64) %	(n = 543) %
Upper respiratory tract infection	20	18	21	14	16
Throat irritation	13	13	3	22	8
Sinusitis/sinus infection	9	10	6	6	6
Upper respiratory inflammation	5	5	0	5	3
Rhinitis	4	3	1	2	2
Oral candidiasis	<1	9	6	5	7
Gastrointestinal					
Nausea and vomiting	8	4	1	2	4
Gastrointestinal discomfort and pain	4	3	2	2	3
Viral gastrointestinal infection	4	3	3	5	1
Non-site specific					
Fever	7	7	1	2	4
Viral infection	2	2	0	5	2
Lower respiratory					
Viral respiratory infection	4	5	1	2	4
Cough	3	5	1	5	4

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Bronchitis	2	3	0	8	1
Neurological					
Headache	12	12	2	14	7
Musculoskeletal and					
trauma					
Muscle injury	2	0	1	5	1
Musculoskeletal pain	4	3	2	5	2
Injury	2	<1	0	5	<1

Table 2 includes all events (whether considered drug-related or nondrug-related by the investigator) that occurred at a rate of over 3% in any of the groups treated with FLOVENT DISKUS and were more common than in the placebo group. Less than 2% of subjects discontinued from the trials because of adverse reactions. The average duration of exposure was 73 to 79 days in the active treatment groups compared with 56 days in the placebo group.

Additional Adverse Reactions: Other adverse reactions not previously listed, whether considered drug-related or not by the investigators, that were reported more frequently by subjects with asthma treated with FLOVENT DISKUS compared with subjects treated with placebo include the following: palpitations; soft tissue injuries; contusions and hematomas; wounds and lacerations; burns; poisoning and toxicity; pressure-induced disorders; hoarseness/dysphonia; epistaxis; ear, nose, throat, and tonsil signs and symptoms; ear, nose, and throat polyps; allergic ear, nose, and throat disorders; throat constriction; fluid disturbances; weight gain; appetite disturbances; keratitis and conjunctivitis; blepharoconjunctivitis; gastrointestinal signs and symptoms; oral ulcerations; dental discomfort and pain; oral erythema and rashes; mouth and tongue disorders; oral discomfort and pain; tooth decay; cholecystitis; arthralgia and articular rheumatism; muscle cramps and spasms; musculoskeletal inflammation; dizziness; sleep disorders; migraines; paralysis of cranial nerves; edema and swelling; bacterial infections; fungal infections; mobility disorders; mood disorders; bacterial reproductive infections; photodermatitis; dermatitis and dermatosis; viral skin infections; eczema; pruritus; acne and folliculitis; urinary infections.

Three (3) of the 7 placebo-controlled US clinical trials were pediatric trials. A total of 592 subjects aged 4 to 11 years were treated with FLOVENT DISKUS (dosages of 50 or 100 mcg twice daily) or placebo; an additional 174 subjects aged 4 to 11 years received FLOVENT® ROTADISK® (fluticasone propionate inhalation powder) at the same doses. There were no clinically relevant differences in the pattern or severity of adverse events in children compared with those reported in adults.

In the first 16 weeks of a 52-week clinical trial in adult subjects with asthma who previously required oral corticosteroids (daily doses of 5 to 40 mg oral prednisone), the effects of FLOVENT DISKUS 500 mcg twice daily (n = 41) and 1,000 mcg twice daily (n = 36) were compared with placebo (n = 34) for the frequency of reported adverse events. The average duration of exposure for subjects taking FLOVENT DISKUS was 105 days compared with 75 days for placebo. Adverse events, whether or not

considered drug related by the investigators, reported in more than 5 subjects in the group taking FLOVENT DISKUS and that occurred more frequently with FLOVENT DISKUS than with placebo are shown below (percent FLOVENT DISKUS and percent placebo).

<u>Ear, Nose, and Throat:</u> Hoarseness/dysphonia (9% and 0%), nasal congestion/blockage (16% and 0%), oral candidiasis (31% and 21%), rhinitis (13% and 9%), sinusitis/sinus infection (33% and 12%), throat irritation (10% and 9%), and upper respiratory tract infection (31% and 24%).

Gastrointestinal: Nausea and vomiting (9% and 0%).

<u>Lower Respiratory:</u> Cough (9% and 3%) and viral respiratory infections (9% and 6%).

Musculoskeletal: Arthralgia and articular rheumatism (17% and 3%) and muscle pain (12% and 0%).

Non-Site Specific: Malaise and fatigue (16% and 9%) and pain (10% and 3%).

Skin: Pruritus (6% and 0%) and skin rashes (8% and 3%).

6.2 Postmarketing Experience

In addition to adverse reactions reported from clinical trials, the following adverse reactions have been identified during postapproval use of fluticasone propionate. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. These events have been chosen for inclusion due to either their seriousness, frequency of reporting, or causal connection to fluticasone propionate or a combination of these factors.

Ear, Nose, and Throat: Aphonia, facial and oropharyngeal edema, and throat soreness.

<u>Endocrine and Metabolic:</u> Cushingoid features, growth velocity reduction in children/adolescents, hyperglycemia, and osteoporosis.

Eye: Cataracts.

<u>Immune System Disorders:</u> Immediate and delayed hypersensitivity reactions, including anaphylaxis, rash, angioedema, and bronchospasm, have been reported. Anaphylactic reactions in patients with severe milk protein allergy have been reported.

<u>Infections and Infestations:</u> Esophageal candidiasis.

<u>Psychiatry:</u> Agitation, aggression, anxiety, depression, and restlessness. Behavioral changes, including hyperactivity and irritability, have been reported very rarely and primarily in children.

<u>Respiratory:</u> Asthma exacerbation, bronchospasm, chest tightness, dyspnea, immediate bronchospasm, pneumonia, and wheeze.

Skin: Contusions and ecchymoses.

7 DRUG INTERACTIONS

7.1 Inhibitors of Cytochrome P450 3A4

Fluticasone propionate is a substrate of CYP3A4. The use of strong CYP3A4 inhibitors (e.g., ritonavir, atazanavir, clarithromycin, indinavir, itraconazole, nefazodone, nelfinavir, saquinavir, ketoconazole, telithromycin) with FLOVENT DISKUS is not recommended because increased systemic corticosteroid adverse effects may occur.

<u>Ritonavir:</u> A drug interaction trial with fluticasone propionate aqueous nasal spray in healthy subjects has shown that ritonavir (a strong CYP3A4 inhibitor) can significantly increase plasma fluticasone propionate exposure, resulting in significantly reduced serum cortisol concentrations [see Clinical Pharmacology (12.3)]. During postmarketing use, there have been reports of clinically significant drug interactions in patients receiving fluticasone propionate and ritonavir, resulting in systemic

corticosteroid effects including Cushing's syndrome and adrenal suppression.

<u>Ketoconazole</u>: Coadministration of orally inhaled fluticasone propionate (1,000 mcg) and ketoconazole (200 mg once daily) resulted in a 1.9-fold increase in plasma fluticasone propionate exposure and a 45% decrease in plasma cortisol area under the curve (AUC), but had no effect on urinary excretion of cortisol.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

<u>Teratogenic Effects:</u> Pregnancy Category C. There are no adequate and well-controlled trials with FLOVENT DISKUS in pregnant women. Corticosteroids have been shown to be teratogenic in laboratory animals when administered systemically at relatively low dosage levels. Because animal reproduction studies are not always predictive of human response, FLOVENT DISKUS should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Women should be advised to contact their physicians if they become pregnant while taking FLOVENT DISKUS.

Mice and rats at fluticasone propionate doses approximately 0.1 and 0.4 times, respectively, the maximum recommended human daily inhalation dose (MRHDID) for adults (on a mg/m² basis at maternal subcutaneous doses of 45 and 100 mcg/kg/day, respectively) showed fetal toxicity characteristic of potent corticosteroid compounds, including embryonic growth retardation, omphalocele, cleft palate, and retarded cranial ossification. No teratogenicity was seen in rats at doses up to 0.3 times the MRHDID (on a mg/m² basis at maternal inhaled doses up to 68.7 mg/kg/day).

In rabbits, fetal weight reduction and cleft palate were observed at a fluticasone propionate dose approximately 0.03 times the MRHDID for adults (on a mg/m² basis at a maternal subcutaneous dose of 4 mcg/kg/day). However, no teratogenic effects were reported at fluticasone propionate doses up to approximately 2 times the MRHDID for adults (on a mg/m² basis at a maternal oral dose up to 300 mcg/kg/day). No fluticasone propionate was detected in the plasma in this study, consistent with the established low bioavailability following oral administration [see Clinical Pharmacology (12.3)].

Fluticasone propionate crossed the placenta following subcutaneous administration to mice and rats and oral administration to rabbits.

Experience with oral corticosteroids since their introduction in pharmacologic, as opposed to physiologic, doses suggests that rodents are more prone to teratogenic effects from corticosteroids than humans. In addition, because there is a natural increase in corticosteroid production during pregnancy, most women will require a lower exogenous corticosteroid dose and many will not need corticosteroid treatment during pregnancy.

<u>Nonteratogenic Effects:</u> Hypoadrenalism may occur in infants born of mothers receiving corticosteroids during pregnancy. Such infants should be carefully monitored.

8.3 Nursing Mothers

It is not known whether fluticasone propionate is excreted in human breast milk. However, other corticosteroids have been detected in human milk. Subcutaneous administration to lactating rats of tritiated fluticasone propionate at a dose approximately 0.04 times the MRHDID for adults on a mg/m² basis resulted in measurable radioactivity in milk.

Since there are no data from controlled trials on the use of FLOVENT DISKUS by nursing mothers, caution should be exercised when FLOVENT DISKUS is administered to a nursing woman.

8.4 Pediatric Use

The safety and effectiveness of FLOVENT DISKUS in children aged 4 years and older have been established [see Adverse Reactions (6.1), Clinical Pharmacology (12.3), Clinical Studies (14.2)]. The

safety and effectiveness of FLOVENT DISKUS in children younger than 4 years have not been established.

<u>Effects on Growth:</u> Orally inhaled corticosteroids may cause a reduction in growth velocity when administered to pediatric patients. A reduction of growth velocity in children or teenagers may occur as a result of poorly controlled asthma or from use of corticosteroids, including inhaled corticosteroids. The effects of long-term treatment of children and adolescents with inhaled corticosteroids, including fluticasone propionate, on final adult height are not known.

Controlled clinical trials have shown that inhaled corticosteroids may cause a reduction in growth in pediatric patients. In these trials, the mean reduction in growth velocity was approximately 1 cm/year (range: 0.3 to 1.8 cm/year) and appeared to depend upon dose and duration of exposure. This effect was observed in the absence of laboratory evidence of HPA axis suppression, suggesting that growth velocity is a more sensitive indicator of systemic corticosteroid exposure in pediatric patients than some commonly used tests of HPA axis function. The long term effects of this reduction in growth velocity associated with orally inhaled corticosteroids, including the impact on final adult height, are unknown. The potential for "catch-up" growth following discontinuation of treatment with orally inhaled corticosteroids has not been adequately studied. The effects on growth velocity of treatment with orally inhaled corticosteroids for over 1 year, including the impact on final adult height, are unknown. The growth of children and adolescents receiving orally inhaled corticosteroids, including FLOVENT DISKUS, should be monitored routinely (e.g., via stadiometry). The potential growth effects of prolonged treatment should be weighed against the clinical benefits obtained and the risks associated with alternative therapies. To minimize the systemic effects of orally inhaled corticosteroids, including FLOVENT DISKUS, each patient should be titrated to the lowest dose that effectively controls his/her symptoms.

A 52-week placebo-controlled trial to assess the potential growth effects of fluticasone propionate inhalation powder (FLOVENT ROTADISK) at 50 and 100 mcg twice daily was conducted in the US in 325 prepubescent children (244 males and 81 females) aged 4 to 11 years. The mean growth velocities at 52 weeks observed in the intent-to-treat population were 6.32 cm/year in the placebo group (n = 76), 6.07 cm/year in the 500mcg group (n = 98), and 5.66 cm/year in the 1000mcg group (n = 89). An imbalance in the proportion of children entering puberty between groups and a higher dropout rate in the placebo group due to poorly controlled asthma may be confounding factors in interpreting these data. A separate subset analysis of children who remained prepubertal during the trial revealed growth rates at 52 weeks of 6.10 cm/year in the placebo group (n = 57), 5.91 cm/year in the 500mcg group (n = 74), and 5.67 cm/year in the 1000mcg group (n = 79). In children aged 8.5 years, the mean age of children in this trial, the range for expected growth velocity is: boys -3^{rd} percentile = 3.8 cm/year, 50^{th} percentile = 5.4 cm/year, and 97^{th} percentile = 7.0 cm/year; girls -3^{rd} percentile = 4.2 cm/year, 50^{th} percentile = 5.7 cm/year, and 97^{th} percentile = 7.3 cm/year. The clinical relevance of these growth data is not certain.

8.5 Geriatric Use

Safety data have been collected on 280 subjects (FLOVENT DISKUS n = 83, FLOVENT Rotadisk n = 197) aged 65 years and older and 33 subjects (FLOVENT DISKUS n = 14, FLOVENT ROTADISK n = 19) aged 75 years and older who have been treated with fluticasone propionate inhalation powder in US and non-US clinical trials. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger subjects, but greater sensitivity of some older individuals cannot be ruled out.

8.6 Hepatic Impairment

Formal pharmacokinetic studies using FLOVENT DISKUS have not been conducted in patients with hepatic impairment. Since fluticasone propionate is predominantly cleared by hepatic metabolism, impairment of liver function may lead to accumulation of fluticasone propionate in plasma. Therefore,

patients with hepatic disease should be closely monitored.

8.7 Renal Impairment

Formal pharmacokinetic studies using FLOVENT DISKUS have not been conducted in patients with renal impairment.

10 OVERDOSAGE

Chronic overdosage may result in signs/symptoms of hypercorticism [see Warnings and Precautions (5.5)]. Inhalation by healthy volunteers of a single dose of 4,000 mcg of fluticasone propionate inhalation powder or single doses of 1,760 or 3,520 mcg of fluticasone propionate CFC inhalation aerosol was well tolerated. Fluticasone propionate given by inhalation aerosol at dosages of 1,320 mcg twice daily for 7 to 15 days to healthy human volunteers was also well tolerated. Repeat oral doses up to 80 mg daily for 10 days in healthy volunteers and repeat oral doses up to 20 mg daily for 42 days in subjects were well tolerated. Adverse reactions were of mild or moderate severity, and incidences were similar in active and placebo treatment groups.

11 DESCRIPTION

The active component of FLOVENT DISKUS 50 mcg, FLOVENT DISKUS 100 mcg, and FLOVENT DISKUS 250 mcg is fluticasone propionate, a corticosteroid having the chemical name S-(fluoromethyl) 6α ,9-difluoro- 11β ,17-dihydroxy- 16α -methyl-3-oxoandrosta-1,4-diene- 17β -carbothioate, 17-propionate and the following chemical structure:

Fluticasone propionate is a white powder with a molecular weight of 500.6, and the empirical formula is $C_{25}H_{31}F_3O_5S$. It is practically insoluble in water, freely soluble in dimethyl sulfoxide and dimethylformamide, and slightly soluble in methanol and 95% ethanol.

FLOVENT DISKUS is an orange plastic inhaler containing a foil blister strip. Each blister on the strip contains a white powder mix of micronized fluticasone propionate (50, 100, or 250 mcg) in 12.5 mg of formulation containing lactose monohydrate (which contains milk proteins). After the inhaler is activated, the powder is dispersed into the airstream created by the patient inhaling through the mouthpiece.

Under standardized in vitro test conditions, FLOVENT DISKUS delivers 46, 94, and 229 mcg of fluticasone propionate from FLOVENT DISKUS 50 mcg, FLOVENT DISKUS 100 mcg, and FLOVENT DISKUS 250 mcg, respectively, when tested at a flow rate of 60 L/min for 2 seconds.

In adult subjects with obstructive lung disease and severely compromised lung function (mean FEV $_1$ 20% to 30% of predicted), mean peak inspiratory flow (PIF) through the DISKUS $^{(\!R)}$ inhaler was 82.4 L/min (range: 46.1 to 115.3 L/min). In children with asthma aged 4 and 8 years, mean PIF through FLOVENT DISKUS was 70 and 104 L/min, respectively (range: 48 to 123 L/min).

The actual amount of drug delivered to the lung will depend on patient factors, such as inspiratory flow profile.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Fluticasone propionate is a synthetic trifluorinated corticosteroid with anti-inflammatory activity. Fluticasone propionate has been shown in vitro to exhibit a binding affinity for the human glucocorticoid receptor that is 18 times that of dexamethasone, almost twice that of beclomethasone-17-monopropionate (BMP), the active metabolite of beclomethasone dipropionate, and over 3 times that of budesonide. Data from the McKenzie vasoconstrictor assay in man are consistent with these results. The clinical significance of these findings is unknown.

Inflammation is an important component in the pathogenesis of asthma. Corticosteroids have been shown to have a wide range of actions on multiple cell types (e.g., mast cells, eosinophils, neutrophils, macrophages, lymphocytes) and mediators (e.g., histamine, eicosanoids, leukotrienes, cytokines) involved in inflammation. These antilinflammatory actions of corticosteroids contribute to their efficacy in asthma.

Though effective for the treatment of asthma, corticosteroids do not affect asthma symptoms immediately. Individual patients will experience a variable time to onset and degree of symptom relief. Maximum benefit may not be achieved for 1 to 2 weeks or longer after starting treatment. When corticosteroids are discontinued, asthma stability may persist for several days or longer.

Trials in subjects with asthma have shown a favorable ratio between topical anti-inflammatory activity and systemic corticosteroid effects with recommended doses of orally inhaled fluticasone propionate. This is explained by a combination of a relatively high local anti-inflammatory effect, negligible oral systemic bioavailability (<1%), and the minimal pharmacological activity of the only metabolite detected in man.

12.2 Pharmacodynamics

In clinical trials with fluticasone propionate inhalation powder using dosages up to and including 250 mcg twice daily, occasional abnormal short cosyntropin tests (peak serum cortisol <18 mcg/dL assessed by radioimmunoassay) were noted both in subjects receiving fluticasone propionate and in subjects receiving placebo. The incidence of abnormal tests at 500 mcg twice daily was greater than placebo. In a 2-year trial carried out with the DISKHALER® inhalation device in 64 subjects with mild, persistent asthma (mean FEV $_1$ 91% of predicted) randomized to fluticasone propionate 500 mcg twice daily or placebo, no subject receiving fluticasone propionate had an abnormal response to 6-hour cosyntropin infusion (peak serum cortisol <18 mcg/dL). With a peak cortisol threshold of <35 mcg/dL, 1 subject receiving fluticasone propionate (4%) had an abnormal response at 1 year; repeat testing at 18 months and 2 years was normal. Another subject receiving fluticasone propionate (5%) had an abnormal response at 2 years. No subject on placebo had an abnormal response at 1 or 2 years.

In a placebo-controlled clinical trial conducted in subjects aged 4 to 11 years, a 30-minute cosyntropin stimulation test was performed in 41 subjects after 12 weeks of dosing with 50 or 100 mcg twice daily of fluticasone propionate via the DISKUS inhaler. One subject receiving fluticasone propionate via the DISKUS inhaler had a prestimulation plasma cortisol concentration <5 mcg/dL, and 2 subjects had a rise in cortisol of <7 mcg/dL. However, all poststimulation values were >18 mcg/dL.

The potential systemic effects of inhaled fluticasone propionate on the HPA axis were also studied in subjects with asthma. Fluticasone propionate given by inhalation aerosol at dosages of 220, 440, 660, or 880 mcg twice daily was compared with placebo or oral prednisone 10 mg given once daily for 4 weeks. For most subjects, the ability to increase cortisol production in response to stress, as assessed by 6-hour cosyntropin stimulation, remained intact with inhaled fluticasone propionate treatment. No subject had an abnormal response (peak serum cortisol <18 mcg/dL) after dosing with placebo or fluticasone propionate 220 mcg twice daily. For subjects treated with 440, 660, and 880 mcg twice daily, 10%, 16%, and 12%, respectively, had an abnormal response as compared with 29% of subjects treated with prednisone.

12.3 Pharmacokinetics

<u>Absorption</u>: Fluticasone propionate acts locally in the lung; therefore, plasma levels do not predict therapeutic effect. Trials using oral dosing of labeled and unlabeled drug have demonstrated that the oral systemic bioavailability of fluticasone propionate is negligible (<1%), primarily due to incomplete absorption and presystemic metabolism in the gut and liver. In contrast, the majority of the fluticasone propionate delivered to the lung is systemically absorbed. The absolute bioavailability of fluticasone propionate from the DISKUS inhaler in healthy volunteers averages 7.8%.

Peak steady-state fluticasone propionate plasma concentrations in adult subjects with asthma (N = 11) ranged from undetectable to 266 pg/mL after a 500-mcg twice-daily dose of fluticasone propionate inhalation powder using the DISKUS inhaler. The mean fluticasone propionate plasma concentration was 110 pg/mL.

<u>Distribution:</u> Following intravenous administration, the initial disposition phase for fluticasone propionate was rapid and consistent with its high lipid solubility and tissue binding. The volume of distribution averaged 4.2 L/kg.

The percentage of fluticasone propionate bound to human plasma proteins averages 99%. Fluticasone propionate is weakly and reversibly bound to erythrocytes and is not significantly bound to human transcortin.

Metabolism: The total clearance of fluticasone propionate is high (average, 1,093 mL/min), with renal clearance accounting for less than 0.02% of the total. The only circulating metabolite detected in man is the 17β-carboxylic acid derivative of fluticasone propionate, which is formed through the CYP3A4 pathway. This metabolite had less affinity (approximately 1/2,000) than the parent drug for the glucocorticoid receptor of human lung cytosol in vitro and negligible pharmacological activity in animal studies. Other metabolites detected in vitro using cultured human hepatoma cells have not been detected in man.

<u>Elimination</u>: Following intravenous dosing, fluticasone propionate showed polyexponential kinetics and had a terminal elimination half-life of approximately 7.8 hours. Less than 5% of a radiolabeled oral dose was excreted in the urine as metabolites, with the remainder excreted in the feces as parent drug and metabolites.

<u>Special Populations:</u> *Gender:* Full pharmacokinetic profiles were obtained from 9 female and 16 male subjects given 500 mcg twice daily. No overall differences in fluticasone propionate pharmacokinetics were observed.

Pediatrics: In a clinical trial conducted in subjects aged 4 to 11 years with mild to moderate asthma, fluticasone propionate concentrations were obtained in 61 subjects at 20 and 40 minutes after dosing with 50 and 100 mcg twice daily of fluticasone propionate inhalation powder using the DISKUS. Plasma concentrations were low and ranged from undetectable (about 80% of the plasma samples) to 88 pg/mL. Mean peak fluticasone propionate plasma concentrations at the 50- and 100-mcg dose levels were 5 and 8 pg/mL, respectively.

Hepatic and Renal Impairment: Formal pharmacokinetic studies using FLOVENT DISKUS have not been conducted in patients with hepatic or renal impairment. However, since fluticasone propionate is predominantly cleared by hepatic metabolism, impairment of liver function may lead to accumulation of fluticasone propionate in plasma. Therefore, patients with hepatic disease should be closely monitored.

<u>Drug Interactions:</u> *Inhibitors of Cytochrome P450 3A4: Ritonavir:* Fluticasone propionate is a substrate of CYP3A4. Coadministration of fluticasone propionate and the strong CYP3A4 inhibitor ritonavir is not recommended based upon a multiple-dose, crossover drug interaction trial in 18 healthy subjects. Fluticasone propionate aqueous nasal spray (200 mcg once daily) was coadministered for 7 days with ritonavir (100 mg twice daily). Plasma fluticasone propionate concentrations following fluticasone propionate aqueous nasal spray alone were undetectable (<10 pg/mL) in most subjects, and when concentrations were detectable, peak levels (C_{max}) averaged 11.9 pg/mL (range: 10.8 to 14.1 pg/mL)

and $AUC_{(0-\tau)}$ averaged 8.43 pg•h/mL (range: 4.2 to 18.8 pg•h/mL). Fluticasone propionate C_{max} and $AUC_{(0-\tau)}$ increased to 318 pg/mL (range: 110 to 648 pg/mL) and 3,102.6 pg•h/mL (range: 1,207.1 to 5,662.0 pg•h/mL), respectively, after coadministration of ritonavir with fluticasone propionate aqueous nasal spray. This significant increase in plasma fluticasone propionate exposure resulted in a significant decrease (86%) in serum cortisol AUC.

Ketoconazole: In a placebo-controlled, crossover trial in 8 healthy adult volunteers, coadministration of a single dose of orally inhaled fluticasone propionate (1,000 mcg) with multiple doses of ketoconazole (200 mg) to steady state resulted in increased plasma fluticasone propionate exposure, a reduction in plasma cortisol AUC, and no effect on urinary excretion of cortisol.

Following orally inhaled fluticasone propionate alone, $AUC_{(2-last)}$ averaged 1.559 ng•h/mL (range: 0.555 to 2.906 ng•h/mL) and $AUC_{(2-\infty)}$ averaged 2.269 ng•h/mL (range: 0.836 to 3.707 ng•h/mL). Fluticasone propionate $AUC_{(2-last)}$ and $AUC_{(2-\infty)}$ increased to 2.781 ng•h/mL (range: 2.489 to 8.486 ng•h/mL) and 4.317 ng•h/mL (range: 3.256 to 9.408 ng•h/mL), respectively, after coadministration of ketoconazole with orally inhaled fluticasone propionate. This increase in plasma fluticasone propionate concentration resulted in a decrease (45%) in serum cortisol AUC.

Erythromycin: In a multiple-dose drug interaction trial, coadministration of orally inhaled fluticasone propionate (500 mcg twice daily) and erythromycin (333 mg 3 times daily) did not affect fluticasone propionate pharmacokinetics.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Fluticasone propionate demonstrated no tumorigenic potential in mice at oral doses up to 1,000 mcg/kg (approximately 2 and 10 times the MRHDID for adults and children aged 4 to 11 years, respectively, on a mg/m^2 basis) for 78 weeks or in rats at inhalation doses up to 57 mcg/kg (approximately 0.2 times and approximately equivalent to the MRHDID for adults and children aged 4 to 11 years, respectively, on a mg/m^2 basis) for 104 weeks.

Fluticasone propionate did not induce gene mutation in prokaryotic or eukaryotic cells in vitro. No significant clastogenic effect was seen in cultured human peripheral lymphocytes in vitro or in the in vivo mouse micronucleus test.

No evidence of impairment of fertility was observed in male and female rats at subcutaneous doses up to 50 mcg/kg (approximately 0.2 times the MRHDID for adults on a mg/m² basis). Prostate weight was significantly reduced.

14 CLINICAL STUDIES

14.1 Adult and Adoles cent Subjects Aged 12 Years and Older

Four randomized, double-blind, parallel-group, placebo-controlled, US clinical trials were conducted in 1,036 adult and adolescent subjects (aged 12 years and older) with asthma to assess the efficacy and safety of FLOVENT DISKUS in the treatment of asthma. Fixed dosages of 100, 250, and 500 mcg twice daily were compared with placebo to provide information about appropriate dosing to cover a range of asthma severity. Subjects in these trials included those inadequately controlled with bronchodilators alone and those already maintained on daily inhaled corticosteroids. All doses were delivered by inhalation of the contents of 1 or 2 blisters from FLOVENT DISKUS twice daily.

Figures 1 through 4 display results of pulmonary function tests (mean percent change from baseline in FEV_1 prior to AM dose) for 3 recommended dosages of FLOVENT DISKUS (100, 250, and 500 mcg twice daily) and placebo from the four 12-week trials in adolescents and adults. These trials used predetermined criteria for lack of efficacy (indicators of worsening asthma), resulting in withdrawal of

more patients in the placebo group. Therefore, pulmonary function results at Endpoint (the last evaluable FEV_1 result, including most patients' lung function data) are also displayed. Pulmonary function, as determined by percent change from baseline in FEV_1 at recommended dosages of FLOVENT DISKUS improved significantly compared with placebo by the first week of treatment, and improvement was maintained for up to 1 year or more.

Figure 1. A 12-Week Clinical Trial Evaluating FLOVENT DISKUS 100 mcg Twice Daily in Adults and Adolescents Receiving Bronchodilators Alone

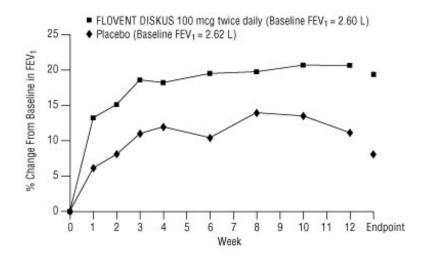


Figure 2. A 12-Week Clinical Trial Evaluating FLOVENT DISKUS 100 mcg Twice Daily in Adults and Adolescents Receiving Inhaled Corticosteroids

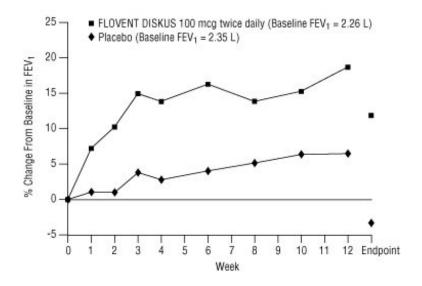


Figure 3. A 12-Week Clinical Trial Evaluating FLOVENT DISKUS 250 mcg Twice Daily in Adults and Adolescents Receiving Inhaled Corticosteroids or Bronchodilators Alone

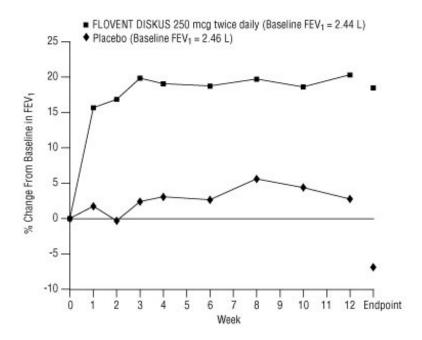
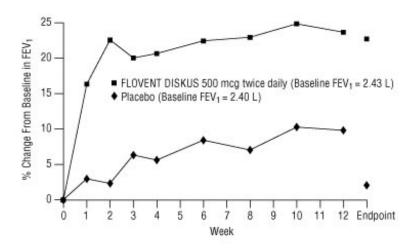


Figure 4. A 12-Week Clinical Trial Evaluating FLOVENT DISKUS 500 mcg Twice Daily in Adults and Adolescents Receiving Inhaled Corticosteroids or Bronchodilators Alone



In all 4 efficacy trials, measures of pulmonary function (FEV $_1$) were statistically significantly improved as compared with placebo at all twice-daily doses. Subjects on all dosages of FLOVENT DISKUS were also less likely to discontinue study participation due to asthma deterioration (as defined by predetermined criteria for lack of efficacy including lung function and subject-recorded variables such as AM PEF, albuterol use, and nighttime awakenings due to asthma) compared with placebo.

In a clinical trial of 111 subjects with severe asthma requiring chronic oral prednisone therapy (average baseline daily prednisone dose was 14 mg), fluticasone propionate given by inhalation powder at doses of 500 and 1,000 mcg twice daily was evaluated. Both doses enabled a statistically significantly larger percentage of subjects to wean from oral prednisone as compared with placebo (75% of the subjects on 500 mcg twice daily and 89% of the subjects on 1,000 mcg twice daily as compared with 9% of subjects on placebo). Accompanying the reduction in oral corticosteroid use, subjects treated with fluticasone propionate had significantly improved lung function and fewer asthma symptoms as compared with the placebo group.

A 12-week, placebo-controlled clinical trial was conducted in 437 pediatric subjects (177 received FLOVENT DISKUS), approximately half of whom were receiving inhaled corticosteroids at baseline. In this trial, doses of fluticasone propionate inhalation powder 50 and 100 mcg twice daily significantly improved FEV₁ (15% and 18% change from baseline at Endpoint, respectively) compared with placebo (7% change). AM PEF was also significantly improved with doses of fluticasone propionate 50 and 100 mcg twice daily (26% and 27% change from baseline at Endpoint, respectively) compared with placebo (14% change). In this trial, subjects on active treatment were significantly less likely to discontinue treatment due to asthma deterioration (as defined by predetermined criteria for lack of efficacy including lung function and subject-recorded variables such as AM PEF, albuterol use, and nighttime awakenings due to asthma).

Two other 12-week placebo-controlled clinical trials were conducted in 504 pediatric subjects with asthma, approximately half of whom were receiving inhaled corticosteroids at baseline. In these trials, FLOVENT DISKUS was efficacious at doses of 50 and 100 mcg twice daily when compared with placebo on major endpoints including lung function and symptom scores. Pulmonary function improved significantly compared with placebo by the first week of treatment, and subjects treated with FLOVENT DISKUS were also less likely to discontinue trial participation due to asthma deterioration. One hundred ninety-two (192) subjects received FLOVENT DISKUS for up to 1 year during an open-label extension. Data from this open-label extension suggested that lung function improvements could be maintained up to 1 year.

16 HOW SUPPLIED/STORAGE AND HANDLING

FLOVENT DISKUS 50 mcg is supplied as a disposable orange plastic inhaler containing a foil blister strip with 60 blisters. The inhaler is packaged in a plastic-coated, moisture-protective foil pouch (NDC 0173-0600-02).

FLOVENT DISKUS 100 mcg is supplied as a disposable orange plastic inhaler containing a foil blister strip with 60 blisters. The inhaler is packaged in a plastic-coated, moisture-protective foil pouch (NDC 0173-0602-02). FLOVENT DISKUS 100 mcg is also supplied in an institutional pack containing 28 blisters (NDC 0173-0602-00).

FLOVENT DISKUS 250 mcg is supplied as a disposable orange plastic inhaler containing a foil blister strip with 60 blisters. The inhaler is packaged in a plastic-coated, moisture-protective foil pouch (NDC 0173-0601-02). FLOVENT DISKUS 250 mcg is also supplied in an institutional pack containing 28 blisters (NDC 0173-0601-00).

Store at room temperature between 68°F and 77°F (20°C and 25°C); excursions permitted from 59°F to 86°F (15°C to 30°C) [See USP Controlled Room Temperature]. Store in a dry place away from direct heat or sunlight. Keep out of reach of children.

FLOVENT DISKUS should be stored inside the unopened moisture-protective foil pouch and only removed from the pouch immediately before initial use. Discard FLOVENT DISKUS 6 weeks (50-mcg strength) or 2 months (100- and 250-mcg strengths) after opening the foil pouch or when the counter reads "0" (after all blisters have been used), whichever comes first. The inhaler is not reusable. Do not attempt to take the inhaler apart.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information and Instructions for Use).

<u>Local Effects:</u> Inform patients that localized infections with *Candida albicans* occurred in the mouth and pharynx in some patients. If oropharyngeal candidiasis develops, treat it with appropriate local or systemic (i.e., oral) antifungal therapy while still continuing therapy with FLOVENT DISKUS, but at times therapy with FLOVENT DISKUS may need to be temporarily interrupted under close medical

supervision. Rinsing the mouth with water without swallowing after inhalation is advised to help reduce the risk of thrush.

<u>Status Asthmaticus and Acute Asthma Symptoms:</u> Inform patients that FLOVENT DISKUS is not a bronchodilator and is not intended for use as rescue medicine for acute asthma exacerbations. Advise patients to treat acute asthma symptoms with an inhaled, short-acting beta₂-agonist such as albuterol. Instruct patients to contact their physicians immediately if there is deterioration of their asthma.

<u>Immunosuppression:</u> Warn patients who are on immunosuppressant doses of corticosteroids to avoid exposure to chickenpox or measles and, if exposed, to consult their physicians without delay. Inform patients of potential worsening of existing tuberculosis; fungal, bacterial, viral, or parasitic infections; or ocular herpes simplex.

<u>Hypercorticism and Adrenal Suppression:</u> Advise patients that FLOVENT DISKUS may cause systemic corticosteroid effects of hypercorticism and adrenal suppression. Additionally, inform patients that deaths due to adrenal insufficiency have occurred during and after transfer from systemic corticosteroids. Patients should taper slowly from systemic corticosteroids if transferring to FLOVENT DISKUS.

Immediate Hypersensitivity Reactions: Advise patients that immediate hypersensitivity reactions (e.g., urticaria, angioedema, rash, bronchospasm, hypotension), including anaphylaxis, may occur after administration of FLOVENT DISKUS. Patients should discontinue FLOVENT DISKUS if such reactions occur. There have been reports of anaphylactic reactions in patients with severe milk protein allergy after inhalation of powder products containing lactose; therefore, patients with severe milk protein allergy should not take FLOVENT DISKUS.

<u>Reduction in Bone Mineral Density:</u> Advise patients who are at an increased risk for decreased BMD that the use of corticosteroids may pose an additional risk.

<u>Reduced Growth Velocity:</u> Inform patients that orally inhaled corticosteroids, including FLOVENT DISKUS, may cause a reduction in growth velocity when administered to pediatric patients. Physicians should closely follow the growth of children and adolescents taking corticosteroids by any route.

Ocular Effects: Long-term use of inhaled corticosteroids may increase the risk of some eye problems (cataracts or glaucoma); consider regular eye examinations.

<u>Use Daily for Best Effect:</u> Patients should use Flovent DISKUS at regular intervals as directed. Individual patients will experience a variable time to onset and degree of symptom relief and the full benefit may not be achieved until treatment has been administered for 1 to 2 weeks or longer. Patients should not increase the prescribed dosage but should contact their physicians if symptoms do not improve or if the condition worsens. Instruct patients not to stop use of FLOVENT DISKUS abruptly. Patients should contact their physicians immediately if they discontinue use of FLOVENT DISKUS.

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GlaxoSmithKline

Research Triangle Park, NC 27709

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FLD:8PI

Patient Information

FLOVENT® DISKUS® [flō' vent disk' us] 50 mcg

(fluticasone propionate inhalation powder, 50 mcg)

FLOVENT® DISKUS® 100 mcg

(fluticasone propionate inhalation powder, 100 mcg)

FLOVENT® DISKUS® 250 mcg

(fluticasone propionate inhalation powder, 250 mcg)

Read the Patient Information that comes with FLOVENT DISKUS before you start using it and each time you get a refill. There may be new information. This Patient Information does not take the place of talking to your healthcare provider about your medical condition or treatment.

What is FLOVENT DISKUS?

FLOVENT DISKUS is a prescription inhaled corticosteroid (ICS) medicine for the long-term treatment of asthma in people aged 4 years and older.

- ICS medicines such as fluticasone propionate help to decrease inflammation in the lungs. Inflammation in the lungs can lead to breathing problems.
- FLOVENT DISKUS is not used to relieve sudden breathing problems.
- It is not known if FLOVENT DISKUS is safe and effective in children younger than 4 years of age.

Who should not use FLOVENT DISKUS?

Do not use FLOVENT DISKUS if you:

- have a severe allergy to milk proteins. Ask your healthcare provider if you are not sure.
- are allergic to fluticasone propionate or any of the ingredients in FLOVENT DISKUS. See "What are the ingredients in FLOVENT DISKUS?" below for a complete list of ingredients.

What should I tell my healthcare provider before using FLOVENT DISKUS?

Tell your healthcare provider about all of your health conditions, including if you:

- have liver problems.
- have weak bones (osteoporosis).
- have an immune system problem.
- have eye problems such as glaucoma or cataracts.
- are allergic to any of the ingredients in FLOVENT DISKUS, any other medicines, or food products. See "What are the ingredients in FLOVENT DISKUS?" below for a complete list of ingredients.
- have any type of viral, bacterial, or fungal infection.
- are exposed to chickenpox or measles.
- have any other medical conditions.
- are pregnant or planning to become pregnant. It is not known if FLOVENT DISKUS may harm your unborn baby.
- are breastfeeding. It is not known if the medicine in FLOVENT DISKUS passes into your milk and if it can harm your baby.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. FLOVENT DISKUS and certain other medicines may interact with each other. This may cause serious side effects. Especially, tell your healthcare provider if you take antifungal or anti-HIV medicines.

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

How should I use FLOVENT DISKUS?

Read the step-by-step instructions for using FLOVENT DISKUS at the end of this Patient Information.

- **Do not** use FLOVENT DISKUS unless your healthcare provider has taught you how to use the inhaler and you understand how to use it correctly.
- Children should use FLOVENT DISKUS with an adult's help, as instructed by the child's healthcare provider.
- FLOVENT DISKUS comes in 3 different strengths. Your healthcare provider prescribed the strength that is best for you.
- Use FLOVENT DISKUS exactly as your healthcare provider tells you to use it. **Do not** use FLOVENT DISKUS more often than prescribed.
- It may take 1 to 2 weeks or longer after you start FLOVENT DISKUS for your asthma symptoms to get better. You must use FLOVENT DISKUS regularly.
- **Do not** stop using FLOVENT DISKUS, even if you are feeling better, unless your healthcare provider tells you to.
- If you miss a dose of FLOVENT DISKUS, just skip that dose. Take your next dose at your usual time. Do not take 2 doses at 1 time.
- **FLOVENT DISKUS does not relieve sudden symptoms.** Always have a rescue inhaler with you to treat sudden symptoms. If you do not have a rescue inhaler, call your healthcare provider to have one prescribed for you.
- Call your healthcare provider or get medical care right away if:
 - your breathing problems get worse.
 - you need to use your rescue inhaler more often than usual.
 - your rescue inhaler does not work as well to relieve your symptoms.
 - you need to use 4 or more inhalations of your rescue inhaler in 24 hours for 2 or more days in a row.
 - you use 1 whole canister of your rescue inhaler in 8 weeks.
 - your peak flow meter results decrease. Your healthcare provider will tell you the numbers that are right for you.

What are the possible side effects with FLOVENT DISKUS?

FLOVENT DISKUS can cause serious side effects, including:

- **fungal infection in your mouth or throat (thrush).** Rinse your mouth with water without swallowing after using FLOVENT DISKUS to help reduce your chance of getting thrush.
- weakened immune system and increased chance of getting infections (immunosuppression)
- **reduced adrenal function (adrenal insufficiency).** Adrenal insufficiency is a condition where the adrenal glands do not make enough steroid hormones. This can happen when you stop taking oral corticosteroid medicines (such as prednisone) and start taking a medicine containing an inhaled steroid (such as FLOVENT DISKUS). When your body is under stress such as from fever, trauma (such as a car accident), infection, or surgery, adrenal insufficiency can get worse and may cause death.

Symptoms of adrenal insufficiency include:

- feeling tired
- lack of energy
- weakness

- nausea and vomiting
- low blood pressure
- **serious allergic reactions.** Call your healthcare provider or get emergency medical care if you get any of the following symptoms of a serious allergic reaction:
 - rash
 - hives
 - swelling of your face, mouth, and tongue
 - breathing problems
- bone thinning or weakness (osteoporosis)
- **slowed growth in children.** A child's growth should be checked often.
- **eye problems including glaucoma and cataracts.** You should have regular eye exams while using FLOVENT DISKUS.
- **increased wheezing (bronchospasm).** Increased wheezing can happen right away after using FLOVENT DISKUS. Always have a rescue inhaler with you to treat sudden wheezing.

Common side effects of FLOVENT DISKUS include:

- upper respiratory tract infection
- throat irritation
- nausea and vomiting
- fever
- headache

Tell your healthcare provider about any side effect that bothers you or that does not go away.

These are not all the side effects with FLOVENT DISKUS. Ask your healthcare provider or pharmacist for more information.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store FLOVENT DISKUS?

- Store FLOVENT DISKUS at room temperature between 68°F and 77°F (20°C and 25°C). Keep in a dry place away from heat and sunlight.
- Store FLOVENT DISKUS in the unopened foil pouch and only open when ready for use.
- Safely throw away FLOVENT DISKUS 50 mcg in the trash **6 weeks** after you open the foil pouch or when the counter reads **0**, whichever comes first.
- Safely throw away FLOVENT DISKUS 100 mcg and FLOVENT DISKUS 250 mcg in the trash **2 months** after you open the foil pouch or when the counter reads **0**, whichever comes first.
- Keep FLOVENT DISKUS and all medicines out of the reach of children.

General information about FLOVENT DISKUS

Medicines are sometimes prescribed for purposes not mentioned in a Patient Information leaflet. Do not use FLOVENT DISKUS for a condition for which it was not prescribed. Do not give your FLOVENT DISKUS to other people, even if they have the same condition that you have. It may harm them.

This Patient Information leaflet summarizes the most important information about FLOVENT DISKUS. If you would like more information, talk with your healthcare provider or pharmacist. You can ask your

healthcare provider or pharmacist for information about FLOVENT DISKUS that was written for healthcare professionals.

For more information about FLOVENT DISKUS, call 1-888-825-5249 or visit our website at www.floventdiskus.com.

What are the ingredients in FLOVENT DISKUS?

Active ingredient: fluticasone propionate

Inactive ingredient: lactose monohydrate (contains milk proteins)

Instructions for Use

For Oral Inhalation Only

Your FLOVENT DISKUS inhaler

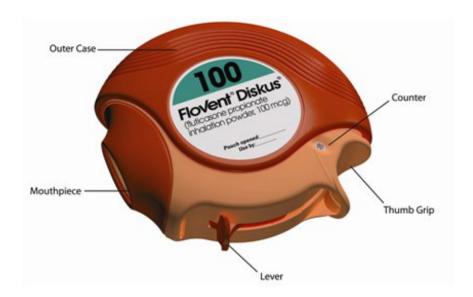


Figure A

Read this information before you start using your FLOVENT DISKUS inhaler:

- Take FLOVENT DISKUS out of the foil pouch just before you use it for the first time. Safely throw away the pouch. The DISKUS will be in the closed position.
- Write the date you opened the foil pouch in the first blank line on the label. **See Figure A.**
- Write the "use by" date in the second blank line on the label. **See Figure A.** If you are using FLOVENT DISKUS 50 mcg, that date is 6 weeks after the date you wrote in the first line. If you are using FLOVENT DISKUS 100 mcg or 250 mcg, that date is 2 months after the date you wrote in the first line.
- The counter should read **60**. If you have a sample (with "Sample" on the back label) or institutional (with "INSTITUTIONAL PACK" on the foil pouch) pack, the counter should read **28**.

How to use your FLOVENT DISKUS inhaler

Follow these steps every time you use FLOVENT DISKUS.

Step 1. Open your FLOVENT DISKUS.

Hold the DISKUS in your left hand and place the thumb of your right hand in the thumb grip. Push
the thumb grip away from you as far as it will go until the mouthpiece shows and snaps into place.
 See Figure B.



Figure B Step 2. Slide the lever until you hear it click.

• **Hold the Diskus in a level, flat position** with the mouthpiece towards you. Slide the lever away from the mouthpiece as far as it will go until it **clicks**. **See Figure C.**



Figure C

• The number on the counter will count down by 1. The DISKUS is now ready to use.

Follow the instructions below so you will not accidentally waste a dose:

- Do not close the DISKUS.
- **Do not** tilt the DISKUS.
- **Do not** move the lever on the DISKUS.

Step 3. Inhale your medicine.

• Before you breathe in your dose from the DISKUS, breathe out (exhale) as long as you can while

you hold the DISKUS level and away from your mouth. **See Figure D.** Do not breathe into the mouthpiece.



Figure D

• Put the mouthpiece to your lips. **See Figure E.** Breathe in quickly and deeply through the DISKUS. Do not breathe in through your nose.



Figure E

- Remove the DISKUS from your mouth and **hold your breath for about 10 seconds**, or for as long as is comfortable for you.
- Breathe out slowly as long as you can. See Figure D.
- If your healthcare provider has told you to take more than 1 inhalation of FLOVENT DISKUS, repeat Steps 2 and 3.
- The DISKUS delivers your dose of medicine as a very fine powder that you may or may not taste or feel. **Do not** take an extra dose from the DISKUS even if you do not taste or feel the medicine.

Step 4. Close the DISKUS.

• Place your thumb in the thumb grip and slide it back towards you as far as it will go. **See Figure F.** Make sure the DISKUS clicks shut and you cannot see the mouthpiece.



Figure F

• The DISKUS is now ready for you to take your next scheduled dose in about 12 hours. **When you are ready to take your next dose, repeat Steps 1 through 4.**

Step 5. Rinse your mouth.

• **Rinse your mouth with water after breathing in the medicine.** Spit out the water. Do not swallow it. **See Figure G.**



Figure G
When should you get a refill?

The counter on top of the DISKUS shows you how many doses are left. After you have taken **55** doses (**23** doses from the sample or institutional pack), the numbers **5** to **0** will show in red. **See Figure H**. These numbers warn you there are only a few doses left and are a reminder to get a refill.



Figure H

For correct use of the DISKUS, remember:

- Always use the DISKUS in a level, flat position.
- Make sure the lever firmly clicks into place.
- Hold your breath for about 10 seconds after inhaling. Then breathe out fully.
- After each dose, rinse your mouth with water and spit it out. Do not swallow the water.
- **Do not** take an extra dose, even if you did not taste or feel the powder.
- Do not take the DISKUS apart.
- Do not wash the DISKUS.
- Always keep the DISKUS in a dry place.
- **Do not** use the DISKUS with a spacer device.

If you have questions about FLOVENT DISKUS or how to use your inhaler, call GlaxoSmithKline (GSK) at 1-888-825-5249 or visit www.floventdiskus.com.

This Patient Information and Instructions for Use have been approved by the U.S. Food and Drug Administration.

FLOVENT and DISKUS are registered trademarks of the GSK group of companies.

GlaxoSmithKline

Research Triangle Park, NC 27709

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April 2014

FLD:6PIL

Patient Information

FLOVENT® DISKUS® [flō' vent disk' us] 50 mcg

(fluticas one propionate inhalation powder, 50 mcg)

FLOVENT® DISKUS® 100 mcg

(fluticasone propionate inhalation powder, 100 mcg)

FLOVENT® DISKUS® 250 mcg

(fluticas one propionate inhalation powder, 250 mcg)

Read the Patient Information that comes with FLOVENT DISKUS before you start using it and each time you get a refill. There may be new information. This Patient Information does not take the place of talking to your healthcare provider about your medical condition or treatment.

What is FLOVENT DISKUS?

FLOVENT DISKUS is a prescription inhaled corticosteroid (ICS) medicine for the long-term treatment of asthma in people aged 4 years and older.

- ICS medicines such as fluticasone propionate help to decrease inflammation in the lungs. Inflammation in the lungs can lead to breathing problems.
- FLOVENT DISKUS is not used to relieve sudden breathing problems.
- It is not known if FLOVENT DISKUS is safe and effective in children younger than 4 years of age.

Who should not use FLOVENT DISKUS?

Do not use FLOVENT DISKUS if you:

- have a severe allergy to milk proteins. Ask your healthcare provider if you are not sure.
- are allergic to fluticasone propionate or any of the ingredients in FLOVENT DISKUS. See "What are the ingredients in FLOVENT DISKUS?" below for a complete list of ingredients.

What should I tell my healthcare provider before using FLOVENT DISKUS?

Tell your healthcare provider about all of your health conditions, including if you:

- have liver problems.
- have weak bones (osteoporosis).
- have an immune system problem.
- have eye problems such as glaucoma or cataracts.
- are allergic to any of the ingredients in FLOVENT DISKUS, any other medicines, or food products. See "What are the ingredients in FLOVENT DISKUS?" below for a complete list of ingredients.
- have any type of viral, bacterial, or fungal infection.
- are exposed to chickenpox or measles.
- have any other medical conditions.
- are pregnant or planning to become pregnant. It is not known if FLOVENT DISKUS may harm your unborn baby.
- are breastfeeding. It is not known if the medicine in FLOVENT DISKUS passes into your milk and if it can harm your baby.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. FLOVENT DISKUS and certain other medicines may interact with each other. This may cause serious side effects. Especially, tell your healthcare provider if you take antifungal or anti-HIV medicines.

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

How should I use FLOVENT DISKUS?

Read the step-by-step instructions for using FLOVENT DISKUS at the end of this Patient Information.

- **Do not** use FLOVENT DISKUS unless your healthcare provider has taught you how to use the inhaler and you understand how to use it correctly.
- Children should use FLOVENT DISKUS with an adult's help, as instructed by the child's healthcare provider.

- FLOVENT DISKUS comes in 3 different strengths. Your healthcare provider prescribed the strength that is best for you.
- Use FLOVENT DISKUS exactly as your healthcare provider tells you to use it. **Do not** use FLOVENT DISKUS more often than prescribed.
- It may take 1 to 2 weeks or longer after you start FLOVENT DISKUS for your asthma symptoms to get better. You must use FLOVENT DISKUS regularly.
- **Do not** stop using FLOVENT DISKUS, even if you are feeling better, unless your healthcare provider tells you to.
- If you miss a dose of FLOVENT DISKUS, just skip that dose. Take your next dose at your usual time. Do not take 2 doses at 1 time.
- **FLOVENT DISKUS does not relieve sudden symptoms.** Always have a rescue inhaler with you to treat sudden symptoms. If you do not have a rescue inhaler, call your healthcare provider to have one prescribed for you.
- Call your healthcare provider or get medical care right away if:
 - your breathing problems get worse.
 - you need to use your rescue inhaler more often than usual.
 - your rescue inhaler does not work as well to relieve your symptoms.
 - you need to use 4 or more inhalations of your rescue inhaler in 24 hours for 2 or more days in a row.
 - you use 1 whole canister of your rescue inhaler in 8 weeks.
 - your peak flow meter results decrease. Your healthcare provider will tell you the numbers that are right for you.

What are the possible side effects with FLOVENT DISKUS?

FLOVENT DISKUS can cause serious side effects, including:

- **fungal infection in your mouth or throat (thrush).** Rinse your mouth with water without swallowing after using FLOVENT DISKUS to help reduce your chance of getting thrush.
- weakened immune system and increased chance of getting infections (immunosuppression)
- reduced adrenal function (adrenal insufficiency). Adrenal insufficiency is a condition where the adrenal glands do not make enough steroid hormones. This can happen when you stop taking oral corticosteroid medicines (such as prednisone) and start taking a medicine containing an inhaled steroid (such as FLOVENT DISKUS). When your body is under stress such as from fever, trauma (such as a car accident), infection, or surgery, adrenal insufficiency can get worse and may cause death.

Symptoms of adrenal insufficiency include:

- feeling tired
- lack of energy
- weakness
- nausea and vomiting
- low blood pressure
- **serious allergic reactions.** Call your healthcare provider or get emergency medical care if you get any of the following symptoms of a serious allergic reaction:
 - rash

- hives
- swelling of your face, mouth, and tongue
- breathing problems
- bone thinning or weakness (osteoporosis)
- **slowed growth in children.** A child's growth should be checked often.
- **eye problems including glaucoma and cataracts.** You should have regular eye exams while using FLOVENT DISKUS.
- **increased wheezing (bronchospasm).** Increased wheezing can happen right away after using FLOVENT DISKUS. Always have a rescue inhaler with you to treat sudden wheezing.

Common side effects of FLOVENT DISKUS include:

- upper respiratory tract infection
- throat irritation
- nausea and vomiting
- fever
- headache

Tell your healthcare provider about any side effect that bothers you or that does not go away.

These are not all the side effects with FLOVENT DISKUS. Ask your healthcare provider or pharmacist for more information.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

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- Store FLOVENT DISKUS in the unopened foil pouch and only open when ready for use.
- Safely throw away FLOVENT DISKUS 50 mcg in the trash **6 weeks** after you open the foil pouch or when the counter reads **0**, whichever comes first.
- Safely throw away FLOVENT DISKUS 100 mcg and FLOVENT DISKUS 250 mcg in the trash **2 months** after you open the foil pouch or when the counter reads **0**, whichever comes first.
- Keep FLOVENT DISKUS and all medicines out of the reach of children.

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For more information about FLOVENT DISKUS, call 1-888-825-5249 or visit our website at www.floventdiskus.com.

What are the ingredients in FLOVENT DISKUS?

Active ingredient: fluticasone propionate

Inactive ingredient: lactose monohydrate (contains milk proteins)

Instructions for Use

For Oral Inhalation Only

Your FLOVENT DISKUS inhaler

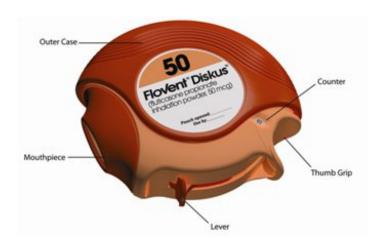


Figure A

Read this information before you start using your FLOVENT DISKUS inhaler:

- Take FLOVENT DISKUS out of the foil pouch just before you use it for the first time. Safely throw away the pouch. The DISKUS will be in the closed position.
- Write the date you opened the foil pouch in the first blank line on the label. **See Figure A.**
- Write the "use by" date in the second blank line on the label. **See Figure A.** If you are using FLOVENT DISKUS 50 mcg, that date is 6 weeks after the date you wrote on the first line. If you are using FLOVENT DISKUS 100 mcg or 250 mcg, that date is 2 months after the date you wrote on the first line.
- The counter should read **60**. If you have a sample (with "Sample" on the back label) or institutional (with "INSTITUTIONAL PACK" on the foil pouch) pack, the counter should read **28**.

How to use your FLOVENT DISKUS inhaler

Follow these steps every time you use FLOVENT DISKUS.

Step 1. Open your FLOVENT DISKUS.

• Hold the DISKUS in your left hand and place the thumb of your right hand in the thumb grip. Push the thumb grip away from you as far as it will go until the mouthpiece shows and snaps into place. **See Figure B.**



Figure B Step 2. Slide the lever until you hear it click.

• **Hold the Diskus in a level, flat position** with the mouthpiece towards you. Slide the lever away from the mouthpiece as far as it will go until it **clicks**. **See Figure C.**



Figure C

• The number on the counter will count down by 1. The DISKUS is now ready to use.

Follow the instructions below so you will not accidentally waste a dose:

- Do not close the DISKUS.
- **Do not** tilt the DISKUS.
- **Do not** move the lever on the DISKUS.

Step 3. Inhale your medicine.

• Before you breathe in your dose from the DISKUS, breathe out (exhale) as long as you can while you hold the DISKUS level and away from your mouth. **See Figure D.** Do not breathe into the mouthpiece.



Figure D

• Put the mouthpiece to your lips. **See Figure E.** Breathe in quickly and deeply through the DISKUS. Do not breathe in through your nose.



Figure E

- Remove the DISKUS from your mouth and **hold your breath for about 10 seconds**, or for as long as is comfortable for you.
- Breathe out slowly as long as you can. See Figure D.
- If your healthcare provider has told you to take more than 1 inhalation of FLOVENT DISKUS, repeat steps 2 and 3.
- The DISKUS delivers your dose of medicine as a very fine powder that you may or may not taste or feel. **Do not** take an extra dose from the DISKUS even if you do not taste or feel the medicine.

Step 4. Close the DISKUS.

• Place your thumb in the thumb grip and slide it back towards you as far as it will go. **See Figure F.** Make sure the DISKUS clicks shut and you cannot see the mouthpiece.



Figure F

• The DISKUS is now ready for you to take your next scheduled dose in about 12 hours. **When you are ready to take your next dose, repeat steps 1 through 4.**

Step 5. Rinse your mouth.

• **Rinse your mouth with water after breathing in the medicine.** Spit out the water. Do not swallow it. **See Figure G.**



Figure G
When should you get a refill?

The counter on top of the DISKUS shows you how many doses are left. After you have taken **55** doses (**23** doses from the sample or institutional pack), the numbers **5** to **0** will show in red. **See Figure H**. These numbers warn you there are only a few doses left and are a reminder to get a refill.



Figure H
For correct use of the DISKUS, remember:

- Always use the DISKUS in a level, flat position.
- Make sure the lever firmly clicks into place.
- Hold your breath for about 10 seconds after inhaling. Then breathe out fully.
- After each dose, rinse your mouth with water and spit it out. Do not swallow the water.
- **Do not** take an extra dose, even if you did not taste or feel the powder.
- **Do not** take the DISKUS apart.
- Do not wash the DISKUS.
- Always keep the DISKUS in a dry place.
- **Do not** use the DISKUS with a spacer device.

If you have questions about FLOVENT DISKUS or how to use your inhaler, call GlaxoSmithKline

(GSK) at 1-888-825-5249 or visit www.floventdiskus.com.

This Patient Information and Instructions for Use have been approved by the U.S. Food and Drug Administration.

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GlaxoSmithKline

Research Triangle Park, NC 27709

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April 2014

FLD:6PIL

PRINCIPAL DISPLAY PANEL

NDC 0173-0600-02

Flovent®Diskus® 50 mcg

(fluticasone propionate inhalation powder, 50 mcg)

FOR ORAL INHALATION ONLY

Each blister contains 50 mcg of fluticasone propionate with lactose.

R_x only

1 Diskus[®] Inhalation Device Containing 1 Foil Strip of 60 Blisters

©2013, Glaxo SmithKline

10000000119113 Rev. 8/13



Flovent® Diskus® 50 mcg (fluticasone propionate

inhalation powder, 50 mcg)

FOR ORAL INHALATION ONLY

Each blister contains 50 mcg of fluticasone propionate with lactose.

R_conly



1 Diskus® Inhalation Device Containing 1 Foil Strip of 60 Blisters



PRINCIPAL DISPLAY PANEL

NDC 0173-0602-02

Flovent®Diskus® 100 mcg

(fluticasone propionate inhalation powder, 100 mcg)

FOR ORAL INHALATION ONLY

Each blister contains 100 mcg of fluticasone propionate with lactose.

R_x only

1 Diskus[®] Inhalation Device Containing 1 Foil Strip of 60 Blisters

©2013, GlaxoSmithKline



NDC 0173-0602-02

Flovent Diskus 100 mcg (fluticasone propionate

inhalation powder, 100 mcg)

FOR ORAL INHALATION ONLY

Each blister contains 100 mcg of fluticasone propionate with lactose.

Ronly



1 Diskus® Inhalation Device Containing 1 Foil Strip of 60 Blisters



PRINCIPAL DISPLAY PANEL

NDC 0173-0601-02

Flovent®Diskus® 250 mcg

(fluticasone propionate inhalation powder, 250 mcg)

FOR ORAL INHALATION ONLY

Each blister contains 250 mcg of fluticasone propionate with lactose.

R_x only

1 Diskus[®] Inhalation Device Containing 1 Foil Strip of 60 Blisters

©2013, Glaxo SmithKline

1000000119115 Rev. 8/13



NDC 0173-0601-02

Flovent Diskus 250 mcg

(fluticasone propionate inhalation powder, 250 mcg)

FOR ORAL INHALATION ONLY

Each blister contains 250 mcg of fluticasone propionate with lactose.

Ronly



1 Diskus® Inhalation Device Containing 1 Foil Strip of 60 Blisters



FLOVENT DISKUS

fluticasone propionate powder, metered

Product Information

Product Type

HUMAN PRESCRIPTION DRUG LABEL

Item Code (Source)

NDC:0173-0602

Active Ingredient/Active Moiety

Route of Administration

Ingredient Name	Basis of Strength	Strength
FLUTICASONE PROPIONATE (FLUTICASONE)	FLUTICASONE PROPIONATE	100 ug

Strength

Inactive Ingredients

Ingredient Name LACTOSE

P	Packaging							
#	Item Code	Package Description	Marketing Start Date	Marketing End Date				
1	NDC:0173-0602-02	1 in 1 CARTON	10/13/2008					
1		60 in 1 INHALER; Combination Product Type = C102835						
2	NDC:0173-0602-01	1 in 1 CARTON	10/13/2008					
2		28 in 1 INHALER; Combination Product Type = C102835						
3	NDC:0173-0602-00	1 in 1 CARTON	10/13/2008					
3		28 in 1 INHALER; Combination Product Type = C102835						

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA020833	10/13/2008	

FLOVENT DISKUS

fluticasone propionate powder, metered

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Product	Information
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Product Type	HUMAN PRESCRIPTION DRUG LABEL	Item Code (Source)	NDC:0173- 0601
Route of Administration	RESPIRATORY (INHALATION)	DEA Schedule	

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
FLUTICASONE PROPIONATE (FLUTICASONE)	FLUTICASONE PROPIONATE	250 ug

	Inactive	Ingred	ie nts
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Ingredient Name	Strength
LACTOSE	

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0173-0601-02	1 in 1 CARTON	10/13/2008	
1		60 in 1 INHALER; Combination Product Type = C102835		
2	NDC:0173-0601-01	1 in 1 CARTON	10/13/2008	
2		28 in 1 INHALER; Combination Product Type = C102835		
3	NDC:0173-0601-00	1 in 1 CARTON	10/13/2008	
3		28 in 1 INHALER; Combination Product Type = C102835		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA020833	10/13/2008	

FLOVENT DISKUS

fluticasone propionate powder, metered

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG LABEL	Item Code (Source)	NDC:0173- 0600
Route of Administration	RESPIRATORY (INHALATION)	DEA Schedule	

Active Ingredient/Active Moiety			
Ingredient Name	Basis of Strength	Strength	
FLUTICASONE PROPIONATE (FLUTICASONE)	FLUTICASONE PROPIONATE	50 ug	

Inactive Ingredients	
Ingredient Name	Strength
LACTOSE	

	Packaging			
1	# Item Code	Package Description	Marketing Start Date	Marketing End Date
	NDC:0173-0600-02	1 in 1 CARTON	05/08/2007	
	1	60 in 1 INHALER; Combination Product Type = C102835		
:	NDC:0173-0600-01	1 in 1 CARTON	05/08/2007	
:	2	28 in 1 INHALER; Combination Product Type = C102835		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA020833	05/08/2007	

Labeler - GlaxoSmithKline LLC (167380711)

Revised: 5/2014 GlaxoSmithKline LLC