## ARMONAIR DIGIHALER- fluticasone propionate powder, metered Teva Respiratory, LLC

#### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use ARMONAIR® DIGIHALER® safely and effectively. See full prescribing information for ARMONAIR DIGIHALER.

<b>ARMONAIR</b>	DIGIHALER	(fluticasone	propionate)	inhalation	powder,	for oral	inhalation	use
	Approval: 1				•			

----- RECENT MAIOR CHANGES ------

Indications and Usage (1) 04/2022 Dosage and Administration (2.2) 04/2022 ------ INDICATIONS AND USAGE

ArmonAir Digihaler contains fluticasone propionate, a corticosteroid, and is indicated for the maintenance treatment of asthma as prophylactic therapy in adult and pediatric patients 4 years of age and older. (1) Limitations of Use: Not indicated for the relief of acute bronchospasm. (1)

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

For oral inhalation only. (2.1)

- Starting dosage is based on prior asthma therapy and disease severity. (2.2)
- Adult and pediatric patients 12 years and older: 1 inhalation of ArmonAir Digihaler 55 mcg. 113 mcg. or 232 mcg twice daily by oral inhalation. (2.2)
- Pediatric patients 4 to 11 years of age: 1 inhalation of ArmonAir Digihaler 30 mcg or 55 mcg twice daily by oral inhalation. (2.2)
- Do not use with a spacer or volume holding chamber. (2.1)

ArmonAir Digihaler contains a built-in electronic module which detects, records, and stores data on inhaler events for transmission to the mobile App. Use of the App is not required for administration of medication to the patient. (2.4)

#### ----- DOSAGE FORMS AND STRENGTHS

Inhalation powder: 30 mcg, 55 mcg, 113 mcg, or 232 mcg of fluticasone propionate per actuation. (3) ArmonAir Digihaler contains a built-in electronic module. (3)

# ------ CONTRAINDICATIONS

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

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- Localized infections: Candida albicans infection of the mouth and throat may occur. Monitor patients periodically. Advise the patient to rinse his/her mouth with water without swallowing after inhalation. (5.1)
- Deterioration of asthma and acute episodes: Do not use for relief of acute symptoms. Patients require immediate re-evaluation during rapidly deteriorating asthma. (5.2)
- Immunosuppression: Potential worsening of existing tuberculosis, fungal, bacterial, viral, parasitic infections or 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)
- Transferring patients from systemic corticosteroids: Risk of impaired adrenal function when transferring from systemic corticosteroids. Taper patients slowly from systemic corticosteroids if transferring to ArmonAir Digihaler. (5.4)
- Hypercorticism and adrenal suppression: May occur with very high dosages or at the regular dosage in susceptible individuals. If such changes occur, discontinue ArmonAir Digihaler slowly. (5.5)
- Decreases in bone mineral density: Monitor patients with major risk factors for decreased bone mineral content. (5.7)
- Monitor growth of pediatric patients. (5.8)
- Close monitoring for glaucoma and cataracts is warranted. (5.9)
- Paradoxical bronchospasm: Discontinue ArmonAir Digihaler and institute alternative therapy if paradoxical bronchospasm occurs. (5.10)

ADVERSE REACTIONS						
Most common adverse reactions (greater than or equal to 3%): upper respiratory tract infection, nasopharyngitis, oral candidiasis, headache, and cough. (6.1)  To report SUSPECTED ADVERSE REACTIONS, contact Teva Pharmaceuticals at 1-888-483-8279 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.						
DRUG INTERACTIONS						
Avoid strong cytochrome P450 3A4 inhibitors (e.g., ritonavir, ketoconazole): May increase risk of systemic corticosteroid effects. (7.1)						
USE IN SPECIFIC POPULATIONS						
Hepatic impairment: Monitor for systemic corticosteroid effects. (8.6)  See 17 for FDA-approved national labeling						

Revised: 4/2022

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#### **FULL PRESCRIBING INFORMATION**

#### 1 INDICATIONS AND USAGE

ArmonAir<sup>®</sup> Digihaler<sup>®</sup> is indicated for the maintenance treatment of asthma as prophylactic therapy in adult and pediatric patients 4 years of age and older.

#### Limitations of Use:

ArmonAir Digihaler is not indicated for the relief of acute bronchospasm.

#### 2 DOSAGE AND ADMINISTRATION

#### 2.1 Administration Instructions

- ArmonAir Digihaler is for oral inhalation and does not require priming.
- Do not use ArmonAir Digihaler with a spacer or volume holding chamber.
- Do not use more than 2 times every 24 hours. The safety and effectiveness of ArmonAir Digihaler when administered in excess of recommended dosages have not been established.
- If symptoms arise between doses, an inhaled short-acting beta<sub>2</sub>-agonist should be used for immediate relief.

## 2.2 Recommended Dosage

Administer 1 inhalation of ArmonAir Digihaler (fluticasone propionate) twice daily by oral inhalation (approximately 12 hours apart at the same time every day). Rinse the mouth with water without swallowing after each dose.

## <u>Dosage Selection</u>

The recommended starting dosage for ArmonAir Digihaler is based on asthma severity and current asthma therapy and strength.

#### Adult and Pediatric Patients Aged 12 Years and Older:

- Patients with greater asthma severity, use the higher doses:
  - 1 inhalation of 113 mcg ArmonAir Digihaler (113 mcg of fluticasone propionate) twice daily by oral inhalation; or
  - 1 inhalation of 232 mcg ArmonAir Digihaler (232 mcg of fluticasone propionate) twice daily by oral inhalation.
- Patients not taking inhaled corticosteroids (ICS), with less severe asthma:
  - 1 inhalation of 55 mcg ArmonAir Digihaler (55 mcg of fluticasone propionate) twice daily by oral inhalation.
- Patients switching to ArmonAir Digihaler from another ICS:
  - 1 inhalation of low (55 mcg fluticasone propionate), medium (113 mcg fluticasone propionate), or high (232 mcg fluticasone propionate) ArmonAir Digihaler twice daily by oral inhalation based on the strength of the previous ICS product and disease severity.
- The maximum recommended dosage is 232 mcg twice daily.

## Pediatric Patients Aged 4 to 11 Years:

- Patients not taking inhaled corticosteroids (ICS), with less severe asthma:
  - 1 inhalation of 30 mcg ArmonAir Digihaler (30 mcg of fluticasone propionate) twice daily by oral inhalation.
- Patients switching to ArmonAir Digihaler from another ICS:
  - 1 inhalation of 30 mcg ArmonAir Digihaler (30 mcg fluticasone propionate) or 55 mcg ArmonAir Digihaler (55 mcg fluticasone propionate) twice daily by oral inhalation based on the strength of the previous ICS product and disease severity.
- Dosages above 55 mcg of ArmonAir Digihaler twice daily by oral inhalation have not been established in patients aged 4 to 11 years.

# **General Dosing Information**

The maximum benefit may not be achieved for up to 2 weeks or longer after starting treatment. Individual patients will experience a variable time to onset and degree of symptom relief. For patients who do not respond to lower doses of ArmonAir Digihaler after 2 weeks of therapy, increasing the dose may provide additional asthma control.

If a previously effective dosage regimen of ArmonAir Digihaler fails to provide adequate control of asthma, re-evaluate the therapeutic regimen, including patient compliance and inhaler technique, and consider additional therapeutic options (e.g., increasing the dose of ArmonAir Digihaler with a higher strength, or adding additional controller therapies). After asthma stability has been achieved, it is desirable to titrate to the lowest effective dosage to reduce the risk of adverse reactions.

# 2.3 Storing and Cleaning the Inhaler

- Keep the inhaler in a cool dry place.
- Routine maintenance is not required. If the mouthpiece needs cleaning, gently wipe the mouthpiece with a dry cloth or tissue as needed.
- Never wash or put any part of the inhaler in water.

# 2.4 Dose Counter and Storage of Inhaler Events Data

The ArmonAir Digihaler inhaler has a dose counter.

• The number 60 is displayed (prior to use).

• The dose counter will count down each time the mouthpiece is opened and closed [see Patient Counseling Information (17)].

ArmonAir Digihaler contains a built-in electronic module which detects, records, and stores data on inhaler events, including peak inspiratory flow rate (L/minute), for transmission to the mobile App where inhaler events are categorized. Use of the App is not required for administration of fluticasone propionate to the patient. There is no evidence the use of the App leads to improved clinical outcomes, including safety and effectiveness [see How Supplied/Storage and Handling (16)].

#### 3 DOSAGE FORMS AND STRENGTHS

Inhalation powder: an inhalation-driven, multidose dry powder inhaler (MDPI) with an electronic module, for oral inhalation that meters 30 mcg, 55 mcg, 113 mcg, or 232 mcg of fluticasone propionate from the device reservoir and delivers 26 mcg, 51 mcg, 103 mcg, or 210 mcg of fluticasone propionate, respectively, from the mouthpiece per actuation. The ArmonAir Digihaler is a white inhaler with a green cap in a sealed foil pouch with desiccant. ArmonAir Digihaler contains a built-in electronic module [see How Supplied/Storage and Handling (16)].

#### 4 CONTRAINDICATIONS

ArmonAir Digihaler is contraindicated:

- in the primary treatment of status asthmaticus or other acute episodes of asthma where intensive measures are required [see Warnings and Precautions (5.2)].
- in patients with known severe hypersensitivity to milk proteins or who have demonstrated hypersensitivity to fluticasone propionate or any of the excipients [see Warnings and Precautions (5.6) and Description (11)].

#### **5 WARNINGS AND PRECAUTIONS**

# 5.1 Oropharyngeal Candidiasis

In clinical trials, the development of localized infections of the mouth and pharynx with *Candida albicans* has occurred in subjects treated with fluticasone propionate MDPI. When such an infection develops, it should be treated with appropriate local or systemic (i.e., oral) antifungal therapy while treatment with ArmonAir Digihaler continues, but at times therapy with ArmonAir Digihaler 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

ArmonAir Digihaler is not indicated for the relief of acute symptoms, i.e., as rescue therapy for the treatment of acute episodes of bronchospasm. An inhaled, short-acting beta<sub>2</sub>-agonist, not ArmonAir Digihaler, should be used to relieve acute symptoms such as shortness of breath. When prescribing ArmonAir Digihaler, the physician must provide the patient with an inhaled, short-acting beta<sub>2</sub>-agonist (e.g., albuterol) for treatment of acute symptoms, despite regular twice-daily use of ArmonAir Digihaler.

Instruct patients to contact their physicians immediately if episodes of asthma not responsive to bronchodilators occur during the course of treatment with ArmonAir Digihaler. During such episodes, patients may require therapy with oral corticosteroids.

## 5.3 Immunosuppression and Risk of Infections

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 patients who have not had these diseases or who have not 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) or pooled intravenous immunoglobulin (IVIG) may be indicated. If a patient is exposed to measles, prophylaxis with pooled intramuscular immunoglobulin (IG) may be indicated. (see the respective Prescribing Information for VZIG and IG). 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; untreated systemic fungal, bacterial, viral, or parasitic infections; or ocular herpes simplex.

## 5.4 Transferring Patients from Systemic Corticosteroid Therapy

## HPA Suppression/Adrenal Insufficiency

Particular care is needed for patients who are 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 ArmonAir Digihaler may improve control of asthma symptoms during these episodes, in recommended doses it supplies less than normal physiological amounts of corticosteroid systemically and does NOT provide the mineralocorticoid that is necessary for coping with these emergencies.

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

Patients requiring systemic corticosteroids should be weaned slowly from systemic corticosteroid use after transferring to ArmonAir Digihaler. Prednisone reduction can be accomplished by reducing the daily prednisone dose by 2.5 mg on a weekly basis during therapy with ArmonAir Digihaler. 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 systemic corticosteroids. In addition to monitoring asthma signs and symptoms, patients should be observed for signs and symptoms of adrenal insufficiency, such as fatigue, lassitude, weakness, nausea and vomiting, and hypotension.

<u>Unmasking of Allergic Conditions Previously Suppressed by Systemic Corticosteroids</u>

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

## Corticosteroid Withdrawal Symptoms

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

ArmonAir Digihaler will often help control asthma symptoms with less suppression of HPA function than therapeutically equivalent oral doses of prednisone. Since ArmonAir Digihaler is absorbed into the circulation and can be systemically active at higher doses, the beneficial effects of ArmonAir Digihaler 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 ArmonAir Digihaler.

Because of the possibility of significant systemic absorption of inhaled corticosteroids, patients treated with ArmonAir Digihaler 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, the dosage of ArmonAir Digihaler should be reduced slowly, consistent with accepted procedures for reducing systemic corticosteroids, and for management of asthma symptoms.

# 5.6 Hypersensitivity Reactions, Including Anaphylaxis

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

## 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, 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.

#### 5.8 Effect on Growth

Orally inhaled corticosteroids, including ArmonAir Digihaler, may cause a reduction in growth velocity when administered to pediatric patients. Monitor the growth of pediatric patients receiving ArmonAir Digihaler routinely (e.g., via stadiometry). To minimize the systemic effects of orally inhaled corticosteroids, including ArmonAir Digihaler, titrate each patient's dosage to the lowest dosage that effectively controls his/her symptoms [see Dosage and Administration (2) and 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 ArmonAir Digihaler, it should be treated immediately with an inhaled, short-acting bronchodilator; ArmonAir Digihaler 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 ArmonAir Digihaler is not recommended because increased systemic corticosteroid adverse effects may occur [see Drug Interactions (7.1) and 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**

The following clinically significant adverse reactions are described elsewhere in the labeling:

- Oropharyngeal candidiasis [see Warnings and Precautions (5.1)]
- Immunosuppression and risk of infections [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 in pediatrics [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 to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The safety of ArmonAir Digihaler has been evaluated from adequate and well-controlled studies of fluticasone propionate inhalation powder [ARMONAIR RESPICLICK, hereafter referred to as fluticasone propionate multidose dry powder inhaler (MDPI)].

## Patients Aged 12 Years and Older:

In two placebo-controlled, 12-week, clinical studies (Trial 1 and Trial 2) [see Clinical Studies (14)], a total of 822 adolescent and adult patients with persistent symptomatic asthma despite ICS or ICS/LABA therapy were treated twice daily with either placebo; or fluticasone propionate MDPI 55 mcg, 113 mcg, or 232 mcg. Sixty percent of patients were female and 80% of patients were white. The average duration of exposure was 82 days in the fluticasone propionate MDPI groups compared with 75 days in the placebo group. Table 1 displays the incidence of most common adverse reactions in pooled Trials 1 and 2.

Table 1: Adverse Reactions with ≥ 3% Incidence with Fluticasone Propionate MDPI, and More Common than Placebo in Subjects with Asthma

Adverse Reaction	Fluticasone Propionate MDPI 55 mcg (n=129) %	Fluticasone Propionate MDPI 113 mcg (n=274) %	Fluticasone Propionate JMDPI 232 mcg (n=146) %	Placebo J (n=273) %
URTI	5.4	4.7	5.5	4.8
Nasopharyngitis	5.4	5.8	4.8	4.4
Oral candidiasis*	3.1	2.9	4.8	0.7
Headache	1.6	7.3	4.8	4.4
Cough	1.6	1.8	3.4	2.6

\* Oral candidiasis includes oropharyngeal candidiasis, oral fungal infection, oropharyngitis fungal
URTI = upper respiratory tract infection

Other adverse reactions not previously listed (and occurring in <3% of patients and in three or more patients on fluticasone propionate MDPI) that were reported more frequently by patients with asthma treated with fluticasone propionate MDPI compared with patients treated with placebo include the following:

Oropharyngeal pain, hypertension, rhinitis allergic, influenza, pyrexia, dizziness, respiratory tract infection, muscle spasms, rhinitis, epistaxis, ligament sprain, musculoskeletal pain, pain in extremity, throat irritation, and vomiting.

Long Term Safety Study: This was a 26-week, open label study of 674 patients previously treated with inhaled corticosteroids who were treated twice daily with fluticasone propionate MDPI 113 mcg or 232 mcg; fluticasone propionate/salmeterol multidose dry powder inhaler (AIRDUO RESPICLICK hereafter referred to as fluticasone propionate/salmeterol MDPI) 113 mcg/14 mcg or 232 mcg/14 mcg; fluticasone propionate aerosol 110 mcg or 220 mcg; or fluticasone propionate and salmeterol inhalation powder 250 mcg/50 mcg or 500 mcg/50 mcg. The types of adverse reactions among fluticasone propionate MDPI treatments were similar to those reported above in placebo-controlled studies.

## Pediatric Patients Aged 4 to 11 Years:

In a placebo-controlled, 12-week, clinical study (Trial 3) [see Clinical Studies (14)] a total of 628 patients with asthma previously treated with an ICS, ICS/LABA, or leukotriene receptor agonist regimen were treated twice daily with either placebo or fluticasone propionate MDPI 30 mcg or 55 mcg, administered as 1 inhalation twice daily. Sixty-one percent of patients were male and 81% of patients were white. The mean age was 8.6 years; 45% were between the ages of 4 and 8 years. The average duration of exposure was 82 days in the fluticasone propionate MDPI groups compared with 80 days in the placebo group.

Adverse reactions that occurred in the pediatric patients treated with fluticasone propionate MDPI with an incidence of 3% or greater, and greater than placebo are noted in Table 2 below.

Table 2: Adverse Reactions with ≥ 3% Incidence with Fluticasone Propionate MDPI and More Common than Placebo in Pediatric Patients with Asthma Aged 4 to 11 Years

Adverse Reaction	Fluticasone Propionate MDPI 30 mcg (n=211) %	Fluticasone Propionate MDPI 55 mcg (n=208) %	Placebo (n=209) %	
Upper respiratory tract infection	5	4	4	
Respiratory tract infection viral	3	5	3	

Respiratory tract infection	1	5	3
Pharyngitis	5	4	1
Cough	5	0	2
Ear infection*	1	4	2

<sup>\*</sup> Includes ear infection, otitis externa, acute otitis media, and otitis media

## **6.2 Postmarketing Experience**

In addition to adverse reactions reported from clinical trials, the following adverse reactions have been identified during post-approval 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, blurred vision, and central serous chorioretinopathy.

<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.

<u>Skin</u>: 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 ArmonAir Digihaler 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

## Risk Summary

There are no randomized clinical studies of ArmonAir Digihaler in pregnant women. There are clinical considerations with the use of ArmonAir Digihaler in pregnant women [see Clinical Considerations]. In animals, teratogenicity characteristic of corticosteroids, decreased fetal body weight, and/or skeletal variations in rats, mice, and rabbits were observed with subcutaneously administered maternal toxic doses of fluticasone propionate less than the maximum recommended human daily inhaled dose (MRHDID) on a mcg/m² basis [see Data]. However, fluticasone propionate administered via inhalation to rats decreased fetal body weight, but did not induce teratogenicity at a maternal toxic dose approximately 2 times the MRHDID on a mcg/m² basis [see Data]. Experience with oral corticosteroids suggests that rodents are more prone to teratogenic effects from corticosteroids than humans. The estimated risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

#### Clinical Considerations

## Disease-Associated Maternal and/or Embryo/Fetal Risk

In women with poorly or moderately controlled asthma, there is an increased risk of several perinatal adverse outcomes such as preeclampsia in the mother and prematurity, low birth weight, and small for gestational age for the neonate. Pregnant women with asthma should be closely monitored and medication adjusted as necessary to maintain optimal asthma control.

#### Data

#### Animal Data

In embryo/fetal development studies with pregnant rats and mice dosed by the subcutaneous route throughout the period of organogenesis, fluticasone propionate was teratogenic in both species. Omphalocele, decreased body weight, and skeletal variations were observed in rat fetuses, in the presence of maternal toxicity, at a dose approximately 2 times the MRHDID (on a mcg/m² basis with a maternal subcutaneous dose of 100 mcg/kg/day). The rat no observed adverse effect level (NOAEL) was observed at approximately 0.6 times the MRHDID (on a mcg/m² basis with a maternal subcutaneous dose of 30 mcg/kg/day). Cleft palate and fetal skeletal variations were observed in mouse fetuses at a dose approximately 0.5 times the MRHDID (on a mcg/m² basis with a maternal subcutaneous dose of 45 mcg/kg/day). The mouse

NOAEL was observed with a dose approximately 0.16 times the MRHDID (on a mcg/m<sup>2</sup> basis with a maternal subcutaneous dose of 15 mcg/kg/day).

In an embryo/fetal development study with pregnant rats dosed by the inhalation route throughout the period of organogenesis, fluticasone propionate produced decreased fetal body weights and skeletal variations, in the presence of maternal toxicity, at a dose approximately 0.5 times the MRHDID (on a mcg/m² basis with a maternal inhalation dose of 25.7 mcg/kg/day); however, there was no evidence of teratogenicity. The NOAEL was observed with a dose approximately 0.1 times the MRHDID (on a mcg/m² basis with a maternal inhalation dose of 5.5 mcg/kg/day).

In an embryofetal development study in pregnant rabbits that were dosed by the subcutaneous route throughout organogenesis, fluticasone propionate produced reductions of fetal body weights, in the presence of maternal toxicity at doses approximately 0.02 times the MRHDID and higher (on a mcg/m² basis with a maternal subcutaneous dose of 0.57 mcg/kg/day). Teratogenicity was evident based upon a finding of cleft palate for 1 fetus at a dose approximately 0.2 times the MRHDID (on a mcg/m² basis with a maternal subcutaneous dose of 4 mcg/kg/day). The NOAEL was observed in rabbit fetuses with a dose approximately 0.004 times the MRHDID (on a mcg/m² basis with a maternal subcutaneous dose of 0.08 mcg/kg/day).

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

In a pre- and post-natal development study in pregnant rats dosed from late gestation through delivery and lactation (Gestation Day 17 to Postpartum Day 22), fluticasone propionate was not associated with decreases in pup body weight, and had no effects on developmental landmarks, learning, memory, reflexes, or fertility at doses up to approximate equivalence to the MRHDID (on a mcg/m² basis with maternal subcutaneous doses up to 50 mcg/kg/day).

#### 8.2 Lactation

#### Risk Summary

There are no available data on the presence of fluticasone propionate in human milk, the effects on the breastfed child, or the effects on milk production. Other corticosteroids have been detected in human milk. However, fluticasone propionate concentrations in plasma after inhaled therapeutic doses are low and therefore concentrations in human breast milk are likely to be correspondingly low [see Clinical Pharmacology (12.3)]. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for ArmonAir Digihaler and any potential adverse effects on the breastfed child from ArmonAir Digihaler or from the underlying maternal condition.

#### Data

#### Animal Data

Subcutaneous administration of tritiated fluticasone propionate at a dose in lactating rats approximately 0.2 times the MRHDID for adults (on a mcg/m² basis) resulted in measurable levels in milk.

#### 8.4 Pediatric Use

The safety and effectiveness of ArmonAir Digihaler in the maintenance treatment of

asthma as prophylactic therapy in pediatric patients 4 years of age and older have been established.

Use of ArmonAir Digihaler for this indication in adolescents ages 12 to 17 years is supported by evidence from two adequate and well-controlled trials in adult and adolescent patients 12 years old and older with persistent symptomatic asthma despite ICS or ICS/LABA therapy (Trials 1 and 2) [see Clinical Studies (14.2)]. In these trials, 50 adolescents received fluticasone propionate MDPI one inhalation twice daily.

Use of ArmonAir Digihaler for this indication in pediatric patients aged 4 to 11 years is supported by evidence from one adequate and well-controlled trial of fluticasone propionate MDPI (Trial 3) [see Clinical Studies (14.2)]. In this trial, 419 pediatric patients received fluticasone propionate MDPI 30 mcg or 55 mcg one inhalation twice daily.

The safety and effectiveness of ArmonAir Digihaler in patients below the age of 4 years have not been established.

#### **Effect on Growth**

Inhaled corticosteroids, including fluticasone propionate, may cause a reduction in growth velocity when administered to pediatric patients [see Warnings and Precautions (5.8)]. 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.

#### 8.5 Geriatric Use

No overall differences in safety or efficacy were observed in data collected in 135 subjects aged 65 years and older versus younger subjects who were treated with ArmonAir Digihaler in placebo-controlled Phase 2 and 3 studies.

# 8.6 Hepatic Impairment

Formal pharmacokinetic studies using ArmonAir Digihaler have not been conducted in patients with hepatic impairment. Since fluticasone propionate is predominantly cleared by hepatic metabolism [see Clinical Pharmacology (12.3)], impairment of liver function may lead to accumulation of fluticasone propionate in plasma. Therefore, patients with hepatic impairment should be closely monitored.

## 8.7 Renal Impairment

Formal pharmacokinetic studies using ArmonAir Digihaler 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)].

#### 11 DESCRIPTION

The active component of ArmonAir Digihaler 30 mcg, 55 mcg, ArmonAir Digihaler 113 mcg, and ArmonAir Digihaler 232 mcg is fluticasone propionate, a corticosteroid having the chemical name S-(fluoromethyl)  $6\alpha$ ,9-difluoro-11ß,17-dihydroxy- $16\alpha$ -methyl-3-oxoandrosta-1,4-diene-17ß-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.

ArmonAir Digihaler is a multidose dry powder inhaler (MDPI) with an electronic module, for oral inhalation only. It contains a formulation blend of fluticasone propionate and alpha lactose monohydrate (which may contain milk proteins). The opening of the mouthpiece cover meters the formulation from the device reservoir as follows:

- 5.5 mg of formulation, which contains 30 mcg of fluticasone propionate
- 11.5 mg of formulation, which contains 55 mcg, 113 mcg, or 232 mcg of fluticasone propionate.

Patient inhalation through the mouthpiece causes the deagglomeration and aerosolization of the drug particles as the formulation moves through the cyclone component of the device. This is followed by dispersion into the airstream.

Under standardized in vitro test conditions, the ArmonAir Digihaler inhaler delivers 26 mcg, 51 mcg, 103 mcg, or 210 mcg of fluticasone propionate with lactose from the mouthpiece when tested at a flow rate of 88 L/min for 1.4 seconds.

The amount of drug delivered to the lung will depend on patient factors such as inspiratory flow profiles. In adult subjects (N=50, aged 18 to 45 years) with asthma, mean peak inspiratory flow (PIF) through the MDPI inhaler was 108.28 L/min (range: 70.37 to 129.24 L/min). In adolescent subjects (N=50, aged 12 to 17 years) with asthma, mean peak inspiratory flow (PIF) through the MDPI inhaler was 106.72 L/min (range: 73.64 to 125.51 L/min). In pediatric subjects (N=50, aged 4 to 11 years) with asthma, mean peak inspiratory flow (PIF) through the MDPI inhaler was 84.92 L/min (range: 45.27 to 117.07 L/min).

ArmonAir Digihaler includes a QR code (on the top of the inhaler), and contains a built-in electronic module which automatically detects, records and stores data on inhaler

events, including peak inspiratory flow rate (L/min). ArmonAir Digihaler may pair with and transmit data to the mobile App where inhaler events are categorized.

#### 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 humans 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, and lymphocytes) and mediators (e.g., histamine, eicosanoids, leukotrienes, and cytokines) involved in inflammation. These anti-inflammatory actions of corticosteroids contribute to their efficacy in the treatment of asthma.

Though effective for the treatment of asthma, corticosteroids do not affect asthma symptoms immediately. Individual patients will experience a variable time of 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 antiinflammatory 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 availability (<1%), and the minimal pharmacological activity of the only metabolite detected in man.

# 12.2 Pharmacodynamics

Hypothalamic Pituitary Adrenal Axis Effects (HPA)

The potential systemic effects of ArmonAir Digihaler on the HPA axis were not fully studied, but other clinical trials evaluated the systemic effects of fluticasone propionate inhalation powder on the HPA axis in healthy subjects and in subjects with asthma.

There are no data regarding serum cortisol from controlled trials using ArmonAir Digihaler in healthy subjects or subjects with asthma.

#### 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 was 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 was systemically absorbed.

Following fluticasone propionate MDPI administration, the peak plasma concentration of fluticasone propionate occurs at approximately 1 hour after inhalation.

The mean peak concentration following a 232 mcg single oral inhalation of fluticasone propionate MDPI to patients 12 years and older with persistent asthma was 73 pg/mL.

#### Distribution

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.

#### Elimination

Terminal half-life estimate of fluticasone propionate following oral inhalation administration of fluticasone propionate MDPI was approximately 11.2 hours.

#### 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  $17\beta$  carboxylic acid derivative of fluticasone propionate, which is formed through the CYP3A4 pathway. This metabolite has 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.

#### Excretion

Less than 5% of a radiolabeled oral dose of fluticasone propionate was excreted in the urine as metabolites, with the remainder excreted in the feces as parent drug and metabolites.

## **Specific Populations**

## Age:

Adolescents Aged 12 to 17 Years: A pharmacokinetic study in patients with persistent asthma aged 12 years and older was conducted. A subgroup analysis was conducted to compare patients aged 12 to 17 (n=16) and  $\geq$ 18 (n=23) years following administration of 232 mcg fluticasone propionate MDPI. No overall differences in fluticasone propionate pharmacokinetics were observed.

Pediatric Patients Aged 4 to 11 Years: Fluticasone propionate concentrations in 18 pediatric patients were measured after a single dose of fluticasone propionate MDPI 55 mcg resulting in a mean peak concentration of 26 pg/mL. Median  $t_{max}$  for fluticasone propionate plasma concentration occurred around 1 hour.

No pharmacokinetic studies have been performed with ArmonAir Digihaler in geriatric patients.

Male and Female Patients: A subgroup analysis was conducted to compare male (n=22) and female (n=17) patients following administration of 232 mcg fluticasone propionate MDPI. No overall differences in fluticasone propionate pharmacokinetics were observed.

Patients with Renal Impairment: The effect of renal impairment on the pharmacokinetics of ArmonAir Digihaler has not been evaluated.

Patients with Hepatic Impairment: Formal pharmacokinetic studies using ArmonAir Digihaler have not been conducted in patients with hepatic impairment. However, since fluticasone propionate is predominantly cleared by hepatic metabolism, impairment of liver function may lead to accumulation of fluticasone propionate in plasma.

<u>Drug Interaction Studies:</u> In vitro and in vivo drug interaction studies have not been conducted with ArmonAir Digihaler. Known clinically significant drug interactions are outlined in *Drug Interactions (7)*.

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 10 times the MRHDID for adults on a mcg/m<sup>2</sup> basis) for 78 weeks or in rats at inhalation doses up to 57 mcg/kg (approximately equivalent to the MRHDID for adults on a mcg/m<sup>2</sup> 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.

Fertility and reproductive performance were unaffected in male and female rats at subcutaneous doses up to 50 mcg/kg (approximately equivalent to the MRHDID for adults on a mcg/m<sup>2</sup> basis).

#### **14 CLINICAL STUDIES**

The safety and efficacy of fluticasone propionate inhalation powder [ARMONAIR RESPICLICK, hereafter referred to as fluticasone propionate MDPI] were evaluated in 2130 adult and adolescent patients with asthma. The development program included 2 confirmatory trials of 12 weeks duration, a 26 week safety trial and two dose-ranging trials of 12 weeks duration.

The safety and efficacy of fluticasone propionate MDPI was evaluated in 841 patients aged 4 to 11 years with asthma.

The efficacy of ArmonAir Digihaler is based primarily on the dose-ranging trials and the confirmatory trials of fluticasone propionate MDPI described below.

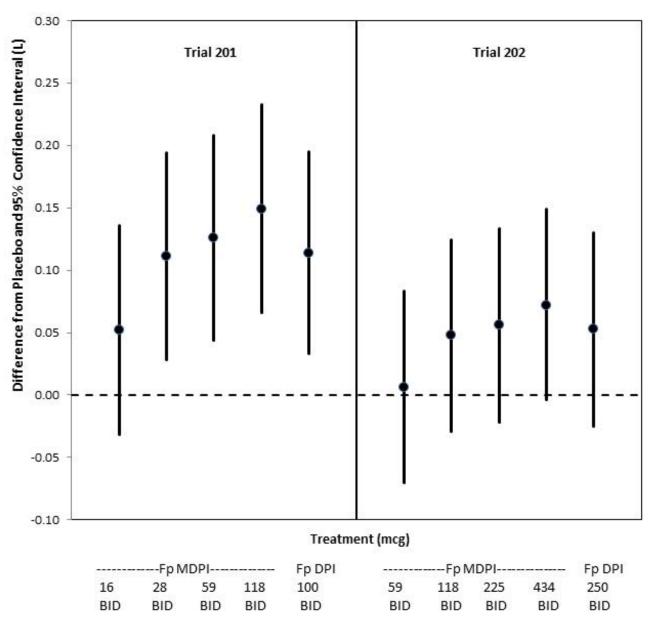
## 14.1 Dose-Ranging Trials in Adult and Adolescent Patients with Asthma

Six doses of fluticasone propionate ranging from 16 mcg to 434 mcg (expressed as metered doses) administered twice daily via MDPI were evaluated in 2 randomized, double-blind, placebo-controlled 12 week trials in patients with asthma.

- Trial 201 was conducted in patients whose asthma was uncontrolled at baseline and had been treated by short-acting beta<sub>2</sub>-agonist (SABA) alone or in combination with non-corticosteroid asthma medication. Low dose inhaled corticosteroid (ICS)-treated patients may have been included after a minimum of 2 weeks washout. This trial contained an open-label active comparator fluticasone propionate inhalation powder 100 mcg administered twice daily.
- Trial 202 was conducted in patients whose asthma was uncontrolled at baseline and had been treated with high dose ICS with or without a LABA. This study contained an open-label active comparator fluticasone propionate inhalation powder 250 mcg twice daily.

The trials were dose-ranging trials of fluticasone propionate MDPI and not designed to provide comparative effectiveness data and should not be interpreted as evidence of superiority/inferiority to fluticasone propionate inhalation powder. The metered doses for fluticasone multidose dry powder inhaler (16, 28, 59, 118, 225, 434 mcg) used in Trial 201 and Trial 202 (see Figure 1) are slightly different from the metered doses for the comparator products (fluticasone inhalation powder) and the Phase 3 investigational products which are the basis of the proposed commercial labeled claim (55, 113, 232 mcg for fluticasone). The changes in doses between Phase 2 and 3 resulted from optimization of the manufacturing process.

Figure 1 Baseline Adjusted Least Square Mean Change in Trough Morning  $FEV_1$  (L) over 12 weeks  $(FAS)^a$ 



Fp MDPI = fluticasone propionate multidose dry powder inhaler Fp DPI = fluticasone propionate dry powder inhaler comparator Metered dose was calculated based on phase 2b formulation compositions.

# FAS = full analysis set;

<sup>a</sup> Trials were not designed to provide comparative effectiveness data and should not be interpreted as superiority/inferiority to fluticasone propionate inhalation powder.

#### 14.2 Trials in the Maintenance Treatment of Asthma

Adult and Adolescent Patients Aged 12 Years and Older:

Two 12-week randomized, double-blind, placebo-controlled, parallel-group, global clinical trials were conducted in 1375 adult and adolescent patients (aged 12 years and older,

with baseline  $FEV_1$  40% to 85% of predicted normal) with asthma that was not optimally controlled on their current therapy. Patients were randomized to receive 1 inhalation twice a day of fluticasone propionate and salmeterol inhalation powder (referred to as fluticasone propionate/salmeterol MDPI), fluticasone propionate MDPI, or placebo. Other maintenance asthma therapies were discontinued at randomization.

<u>Trial 1</u>: In this trial, adolescent and adult patients with persistent symptomatic asthma despite low-dose or mid-dose inhaled corticosteroid (ICS) or ICS/LABA therapy were included. After completing a run-in period where patients were treated with beclomethasone dipropionate inhalation aerosol 40 mcg twice daily and a single blind placebo MDPI, the patients who met the randomization criteria were randomized to 1 inhalation twice a day of the following treatments:

- Placebo MDPI (n=130)
- Fluticasone propionate MDPI 55 mcg (n=129)
- Fluticasone propionate MDPI 113 mcg (n=130)
- Fluticasone propionate/salmeterol MDPI 55 mcg/14 mcg (n=129), or
- Fluticasone propionate/salmeterol MDPI 113 mcg/14 mcg (n=129)

Baseline  $FEV_1$  measurements were similar across treatments: fluticasone propionate MDPI 55 mcg 2.134 L, fluticasone propionate MDPI 113 mcg 2.166 L, and placebo 2.188 L.

The primary endpoints for this trial were the change from baseline in trough  $FEV_1$  at week 12 for all patients and standardized baseline-adjusted  $FEV_1$  AUEC<sub>0-12h</sub> at week 12 analyzed for a subset of 312 patients who performed postdose serial spirometry.

Patients receiving fluticasone propionate MDPI 55 mcg and fluticasone propionate MDPI 113 mcg had significantly greater improvements in trough  $FEV_1$  compared with the placebo group:

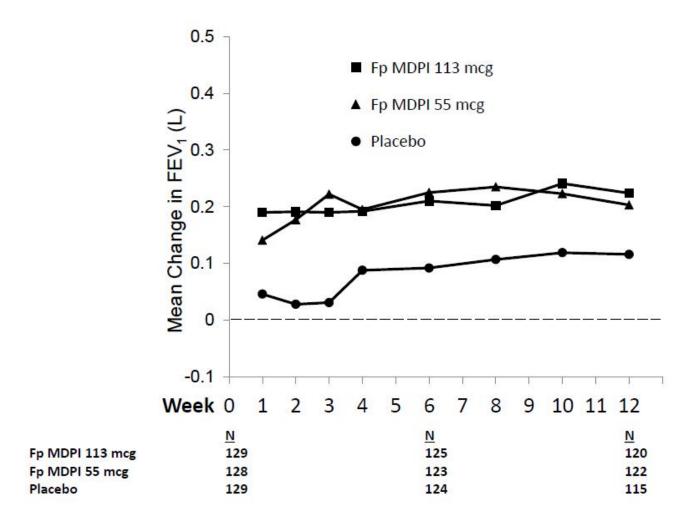
- Fluticasone propionate MDPI 55 mcg: Least Squares (LS) mean change of 0.172 L at 12 weeks
- Fluticasone propionate MDPI 113 mcg: LS mean change of 0.204 L at 12 weeks
- Placebo: LS mean change of 0.053 L at 12 weeks

The estimated mean differences between:

- Fluticasone propionate MDPI 55 mcg compared to placebo was 0.119 L (95% CI: 0.025, 0.212).
- Fluticasone propionate MDPI 113 mcg compared to placebo was 0.151 L (95% CI: 0.057, 0.244).

In addition, the mean  $FEV_1$  results at each visit are displayed in Figure 2.

# Figure 2: Mean Change from Baseline in Trough $FEV_1$ at Each Visit by Treatment Group Trial 1 (FAS)

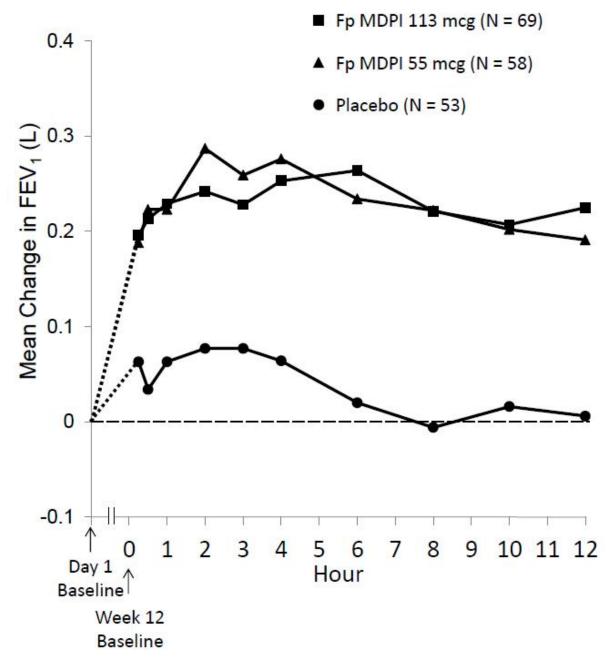


 $FAS = full analysis set; FEV_1 = forced expiratory volume in 1 second$ 

Supportive evidence of efficacy for fluticasone propionate MDPI compared with placebo was derived from secondary endpoints such as the weekly average of daily trough morning peak expiratory flow and the total daily use of rescue medication. The Asthma Quality of Life Questionnaire (AQLQ) for patients aged  $\geq 18$  years or the pediatric AQLQ (PAQLQ) for patients aged 12 to 17 were assessed in Trial 1. The responder rate for both measures was defined as an improvement in score of 0.5 or more as threshold. In Trial 1, the responder rates for patients receiving fluticasone propionate MDPI 55 mcg and fluticasone propionate MDPI 113 mcg were 46% and 45%, respectively, compared to 40% for patients receiving placebo, with odds ratios of 1.23 (95% CI: 0.74, 2.06) and 1.25 (95% CI: 0.75, 2.08), respectively.

Improvements in  $FEV_1$  for both fluticasone propionate MDPI dose groups were sustained over the 12 hours of testing at week 12 (Figure 3).

Figure 3: Serial Spirometry: Mean Change from Baseline in  $FEV_1$  (L) at Week 12 by Time Point and Treatment Group Trial 1 (FAS; Serial Spirometry Subset)



 $FAS = full analysis set; FEV_1 = forced expiratory volume in 1 second$ 

<u>Trial 2</u>: In this trial, adolescent and adult patients with persistent symptomatic asthma despite inhaled corticosteroid (ICS) or ICS/LABA therapy were included. After completing a run-in period where patients were treated with single-blind fluticasone propionate MDPI 55 mcg twice daily replacing their current asthma therapy, patients who met the randomization criteria were randomized to 1 inhalation twice a day of the following treatments:

- Placebo MDPI (n=145)
- Fluticasone propionate MDPI 113 mcg (n=146)
- Fluticasone propionate MDPI 232 mcg (n=146)
- Fluticasone propionate/salmeterol MDPI 113 mcg/14 mcg (n=145)
- Fluticasone propionate/salmeterol MDPI 232 mcg/14 mcg (n=146)

Baseline  $FEV_1$  measurements were similar across treatments, as follows: fluticasone propionate MDPI 113 mcg 2.069 L, fluticasone propionate MDPI 232 mcg 2.075 L, and

## placebo 2.141 L.

The primary endpoints for this trial were the change from baseline in trough  $FEV_1$  at week 12 for all patients and standardized baseline-adjusted  $FEV_1$  AUEC<sub>0-12h</sub> at week 12 analyzed for a subset of 312 patients who performed postdose serial spirometry.

Efficacy results in this trial were similar to those observed in Trial 1. Patients receiving fluticasone propionate MDPI 113 mcg and fluticasone propionate MDPI 232 mcg had significantly greater improvements in trough  $FEV_1$  compared with the placebo group:

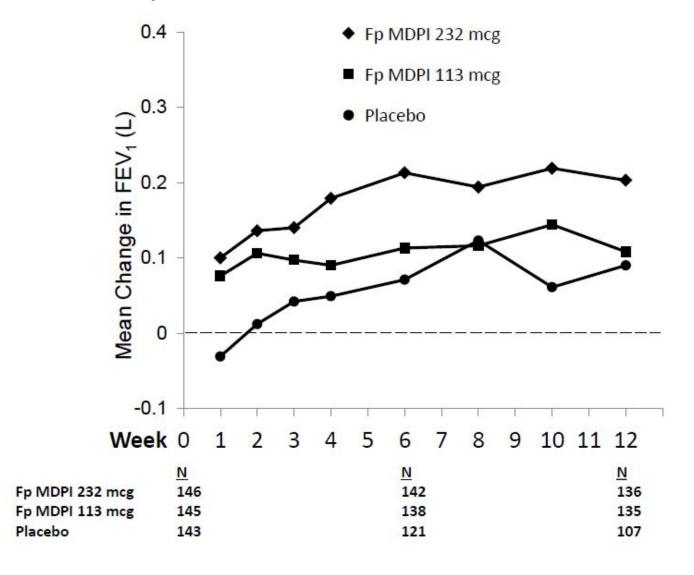
- Fluticasone propionate MDPI 113 mcg: LS mean change of 0.119 L at 12 weeks
- Fluticasone propionate MDPI 232 mcg: LS mean change of 0.179 L at 12 weeks
- Placebo: LS mean change of -0.004 L at 12 weeks

## Estimated mean differences between:

- Fluticasone propionate MDPI 113 mcg compared to placebo was 0.123 L (95% CI: 0.038, 0.208).
- Fluticasone propionate MDPI 232 mcg compared to placebo was 0.183 L (95% CI: 0.098, 0.268).

In addition, the mean  $FEV_1$  results at each visit are displayed in Figure 4.

Figure 4: Mean Change from Baseline in Trough  $FEV_1$  at Each Visit by Treatment Group Trial 2 (FAS)

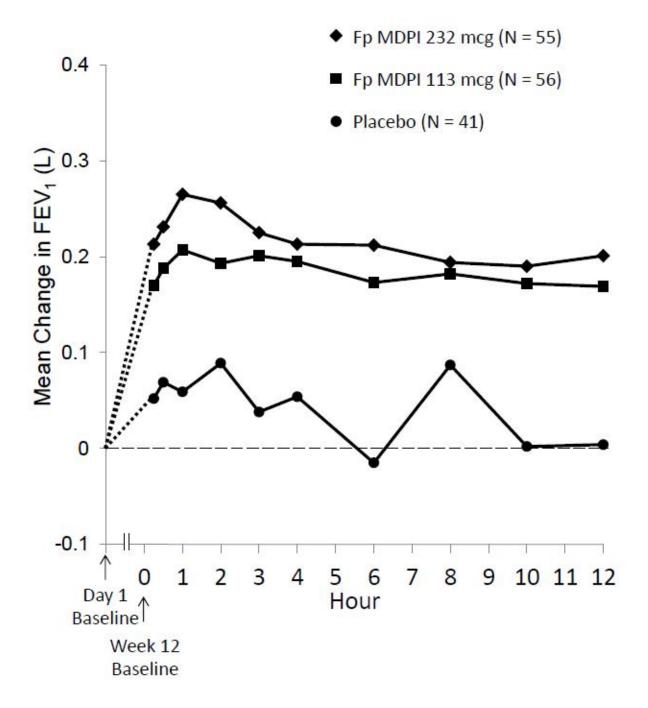


 $FAS = full analysis set; FEV_1 = forced expiratory volume in 1 second$ 

Supportive evidence of efficacy for fluticasone propionate MDPI compared with placebo was derived from secondary endpoints such as the weekly average of daily trough morning peak expiratory flow and total daily use of rescue medication. There were fewer withdrawals due to worsening asthma in patients treated with fluticasone propionate MDPI than with placebo. The AQLQ (patients aged  $\geq$  18 years) or the PAQLQ (patients aged 12 to 17) were assessed in Trial 2. The responder rates for patients receiving fluticasone propionate MDPI 113 mcg and fluticasone propionate MDPI 232 mcg were 38% and 44%, respectively, compared to 27% for patients receiving placebo, with odds ratios of 1.75 (95% CI:1.05, 2.93) and 2.12 (95% CI:1.27, 3.53), respectively.

Improvements in  $FEV_1$  for both fluticasone propionate MDPI dose groups were sustained over the 12 hours of testing at week 12 (Figure 5).

Figure 5: Serial Spirometry: Mean Change from Baseline in  $FEV_1$  (L) at Week 12 by Time Point and Treatment Group Trial 2 (FAS; Serial Spirometry Subset)



FAS = full analysis set;  $FEV_1$  = forced expiratory volume in 1 second Pediatric Patients Aged 4 to 11 Years:

The safety and efficacy of fluticasone propionate MDPI was evaluated in a multicenter, randomized, double-blind, placebo-controlled trial (Trial 3) in 841 pediatric patients aged 4 to 11 years with persistent asthma being treated with a stable asthma regimen other than short-acting beta-agonist alone, such as inhaled corticosteroid (ICS), ICS/LABA, or leukotriene receptor agonist. After completing a run-in period of 14 to 30 days where patients discontinued all non-study asthma-related drugs, patients who met randomization criteria, which included Childhood Asthma Control Test (C-ACT) score of  $\leq$  19, were randomized to receive 1 inhalation twice a day of fluticasone propionate MDPI 30 mcg (n=211), fluticasone propionate MDPI 55 mcg (n=210), fluticasone propionate/salmeterol (n=211) or placebo (n=209). Of the randomized patients, 488 had been previously treated with inhaled corticosteroids with or without LABA.

For the predefined endpoint of change from baseline in weekly average trough ppFEV $_1$  at week 12, the estimated mean differences between fluticasone propionate MDPI 30 mcg compared to placebo and fluticasone propionate MDPI 55 mcg compared to placebo were 6.0% predicted (95% CI: 3.2, 8.8) and 7.0% predicted (95% CI: 4.1, 9.8), respectively.

### 16 HOW SUPPLIED/STORAGE AND HANDLING

ArmonAir Digihaler (fluticasone propionate) Inhalation Powder:

- a white multidose dry-powder inhaler (MDPI) with an electronic module
- each inhaler has a green cap and is packaged individually in a foil pouch with desiccant, one pouch per carton
- is available as noted in the table below

STRENGTH	Actuations	Net Contents	NDC CODE
ArmonAir Digihaler 30 mcg	60	0.46 grams	NDC 59310-
(pediatric) ArmonAir Digihaler 55 mcg (low)	60	0.9 grams	340-06 NDC 59310- 114-06
ArmonAir Digihaler 113 mcg (medium)	60	0.9 grams	NDC 59310- 200-06
ArmonAir Digihaler 232 mcg (high)	60	0.9 grams	NDC 59310- 311-06

Each ArmonAir Digihaler inhaler has a dose counter attached to the actuator. Patients should never try to alter the numbers for the dose counter. Discard the inhaler when the counter displays 0, 30 days after opening the foil pouch or after the expiration date on the product, whichever comes first. The labeled amount of medication in each actuation cannot be assured after the counter displays 0, even though the inhaler is not completely empty and will continue to operate [see Patient Counseling Information (17)].

Store at room temperature (between 15°C and 25°C; 59°F and 77°F) in a dry place; excursions permitted from 59°F to 86°F (15°C to 30°C). Avoid exposure to extreme heat, cold, or humidity.

Keep out of reach of children.

Store ArmonAir Digihaler inside the unopened moisture-protective foil pouch and remove from the pouch immediately before initial use. Discard ArmonAir Digihaler 30 days after opening the foil pouch or when the counter reads "0", whichever comes first. The inhaler is not reusable. Do not attempt to take the inhaler apart.

ArmonAir Digihaler includes a QR code, and contains a built-in electronic module which automatically detects, records, and stores data on inhaler events, including peak

inspiratory flow rate (L/min). ArmonAir Digihaler may pair with and transmit data to the mobile App via Bluetooth<sup>®</sup> wireless technology where inhaler events are categorized.

ArmonAir Digihaler contains a lithium-manganese dioxide battery and should be disposed of in accordance with state and local regulations.

#### 17 PATIENT COUNSELING INFORMATION

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

Patients should be given the following information:

## Oropharyngeal Candidiasis

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 ArmonAir Digihaler, but at times therapy with ArmonAir Digihaler 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 [see Warnings and Precautions (5.1)].

## Status Asthmaticus and Acute Asthma Symptoms

Inform patients that ArmonAir Digihaler 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 beta<sub>2</sub>-agonist such as albuterol. Instruct the patient to contact their physicians immediately if there is deterioration of their asthma [see Warnings and Precautions (5.2)].

## Immunosuppression and Risk of Infections

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 [see Warnings and Precautions (5.3)].

# <u>Hypercorticism and Adrenal Suppression</u>

Advise patients that ArmonAir Digihaler may cause systemic corticosteroid effects of hypercorticism and adrenal suppression. Additionally, instruct 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 ArmonAir Digihaler [see Warnings and Precautions (5.5)].

# Immediate Hypersensitivity Reactions

Advise patients that immediate hypersensitivity reactions (e.g., urticaria, angioedema, rash, bronchospasm, and hypotension), including anaphylaxis, may occur after administration of ArmonAir Digihaler. Patients should discontinue ArmonAir Digihaler if such reactions occur and contact their healthcare provider or get emergency medical help. 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 ArmonAir Digihaler [see Warnings and Precautions (5.6)].

## Reduction in Bone Mineral Density (BMD)

Advise patients who are at an increased risk for decreased BMD that the use of corticosteroids may pose an additional risk [see Warnings and Precautions (5.7)].

## Reduced Growth Velocity

Inform patients that orally inhaled corticosteroids, including ArmonAir Digihaler, may cause a reduction in growth velocity when administered to pediatric patients. Physicians should closely follow the growth of adolescents taking corticosteroids by any route [see Warnings and Precautions (5.8)].

#### Ocular Effects

Long-term use of inhaled corticosteroids may increase the risk of some eye problems (cataracts or glaucoma); consider regular eye examinations [see Warnings and Precautions (5.9)].

## **Pregnancy**

Inform patients who are pregnant or nursing that they should contact their physician about the use of ArmonAir Digihaler [see Use in Specific Populations (8.1)].

## **Use Daily for Best Effect**

Patients should use ArmonAir Digihaler at regular intervals as directed. The daily dosage of ArmonAir Digihaler should not exceed 1 inhalation twice a day. Advise patients, if they miss a dose, to take their next dose at the same time they normally do and to not take 2 doses at one time. 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 to not stop use of ArmonAir Digihaler abruptly. Patients should contact their physicians immediately if they discontinue use of ArmonAir Digihaler.

# Use of ArmonAir Digihaler and Mobile App

Direct the patient to the Instructions for Use (IFU) for information on how to set up the App and use the inhaler. Advise the patient that pairing of the inhaler to the App, having Bluetooth turned on, or being near their smartphone is not required for delivery of the medication from the inhaler or for normal use of the product.

#### **Dose Counter**

Instruct patients that the ArmonAir Digihaler inhaler has a dose counter that displays the number of actuations (inhalations) left in the inhaler. When the patient receives a new inhaler, the number 60 will be displayed. The dose counter will count down each time the mouthpiece is opened and closed. The dose counter window displays the number of actuations (inhalations) left in the inhaler in units of two (e.g., 60, 58, 56, etc.). When the dose counter reaches 20, the color of the numbers will change to red to remind the patient to contact their pharmacist or healthcare provider for a refill of their medication. When the dose counter reaches 0, the patient should stop using the inhaler, and

dispose of it in accordance with state and local regulations.

## Caring for and Storing the Inhaler

Instruct patients to not open their inhaler unless they are taking a dose. Repeated opening and closing the cover without taking medication will waste medication and may damage the inhaler.

Advise patients to keep their inhaler dry and clean at all times. Never wash or put any part of the inhaler in water. Patients should replace inhaler if washed or placed in water.

Advise patients to immediately replace inhaler if mouthpiece cover is damaged or broken.

Gently wipe the mouthpiece with a dry cloth or tissue as needed.

Instruct patients to store the inhaler at room temperature and to avoid exposure to extreme heat, cold, or humidity.

Instruct patients to never take the inhaler apart.

Instruct patients to discard ArmonAir Digihaler when the dose counter displays 0, 30 days after opening the foil pouch or after the expiration date on the product, whichever comes first.

Manufactured for:

Teva Respiratory Parsippany, NJ 07054

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United States Patent Nos. 6701917, 6718972, 6748947, 6871646, 7540282, 8006690, 8651103, 8714149, 8978966, 9216260, 9463288, 9616024, 9731087, 9782550, 9782551, 10022510, 10124131, 10195375, 10561808, 10569034, 10765820.

ARMDH-002

Revised: 04/2022



#### **Patient Information**

ARMONAIR® DIGIHALER® (ar´ moe nayr di´ji haye´´ ler) (fluticasone propionate) inhalation powder 30 mcg ARMONAIR® DIGIHALER® (ar´ moe nayr di´ji haye´´ ler) (fluticasone propionate) inhalation powder 55 mcg ARMONAIR® DIGIHALER® (ar´ moe nayr di´ji haye´´ ler) (fluticasone propionate) inhalation powder 113 mcg

ARMONAIR® DIGIHALER® (ar´ moe nayr di´ji haye´´ ler) (fluticasone propionate) inhalation powder 232 mcg

#### for oral inhalation use

#### What is ARMONAIR DIGIHALER?

ARMONAIR DIGIHALER 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.
- ARMONAIR DIGIHALER is not used to relieve sudden breathing problems.
- It is not known if ARMONAIR DIGIHALER is safe and effective in children younger than 4 years of age.
- ARMONAIR DIGIHALER contains a built-in electronic module that detects, records and stores information about inhaler events. ARMONAIR DIGIHALER may be used with, and transmits information to a mobile application (App) through Bluetooth® wireless technology.
- ARMONAIR DIGIHALER does not need to be connected to the App in order for you to take your medicine. The electronic module does not control or interfere with delivery of the medicine through the inhaler.

#### Do not use ARMONAIR DIGIHALER:

- to relieve sudden breathing problems.
- if you have a severe allergy to milk proteins or any of the ingredients in ARMONAIR DIGIHALER. See the end of this Patient Information leaflet for a complete list of ingredients in ARMONAIR DIGIHALER.

# Before using ARMONAIR DIGIHALER, tell your healthcare provider about all of your medical conditions, including if you:

- have liver problems.
- have weak bones (osteoporosis).
- have an immune system problem.
- have eye problems such as glaucoma or cataracts.
- have tuberculosis, a viral, bacterial, fungal or parasitic infection, or herpes simplex.
- are exposed to chickenpox or measles.
- are pregnant or plan to become pregnant. It is not known if ARMONAIR DIGIHALER may harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if ARMONAIR DIGIHALER passes into your breast milk and 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. ARMONAIR DIGIHALER and certain other medicines may affect each other causing 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 to your healthcare provider and pharmacist when you get a new medicine.

# How should I use ARMONAIR DIGIHALER?

Read the step-by-step instructions for using ARMONAIR DIGIHALER at the end of this Patient Information leaflet.

• For detailed instructions on how to set up the App go to

www.ARMONAIRDIGIHALER.com or call Teva Pharmaceuticals at 1-888-603-0788.

- Connection to the App, having your Bluetooth turned on, or being near your smartphone is not required for your ARMONAIR DIGIHALER to work and for you to get your medicine.
- The electronic module does not control or interfere with delivery of the medicine through the inhaler.
- ARMONAIR DIGIHALER is for oral inhalation use only.
- Rinse your mouth with water without swallowing after each dose of ARMONAIR DIGIHALER.
- Children should use ARMONAIR DIGIHALER with an adult's help, as instructed by the child's healthcare provider.
- ARMONAIR DIGIHALER comes in 4 different strengths. Your healthcare provider prescribed the strength that is right for you or your child.
- Use ARMONAIR DIGIHALER exactly as your healthcare provider tells you to use it. Do not use ARMONAIR DIGIHALER more often than prescribed.
- Use ARMONAIR DIGIHALER 1 inhalation 2 times each day (about 12 hours apart) at the same time every day.
- ARMONAIR DIGIHALER does not need priming. **Do not** use a spacer or volume holding chamber with ARMONAIR DIGIHALER.
- **Do not** open the green cap on your ARMONAIR DIGIHALER inhaler until you are ready for your dose because this will waste your medicine or may damage your inhaler.
- It may take 1 to 2 weeks or longer after you start ARMONAIR DIGIHALER for your asthma symptoms to get better. You must use ARMONAIR DIGIHALER regularly.
- Do not stop using ARMONAIR DIGIHALER, even if you are feeling better, unless your healthcare provider tells you to.
- If you miss a dose of ARMONAIR DIGIHALER, just skip that dose. Take your next dose at your usual time. **Do not** take 2 doses at 1 time.
- ARMONAIR DIGIHALER 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.
- o you need to use your rescue inhaler more often than usual.
- $\circ\;$  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 ARMONAIR DIGIHALER? ARMONAIR DIGIHALER can cause serious side effects, including:

- Fungal infection in your mouth and throat (thrush). Rinse your mouth with water without swallowing after using ARMONAIR DIGIHALER 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 ARMONAIR
DIGIHALER). 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 help if you get any of the following signs or 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 ARMONAIR DIGIHALER.
- Increased wheezing (bronchospasm). Increased wheezing can happen right
  away after using ARMONAIR DIGIHALER. If this occurs, stop using ARMONAIR
  DIGIHALER and call your healthcare provider. Always have a rescue inhaler with you
  to treat sudden wheezing.

# Common side effects of ARMONAIR DIGIHALER in people aged 12 years and older include:

- infection or inflammation of nose and throat (nasopharyngitis)
- upper respiratory tract infection
- thrush in your mouth or throat
- headache
- cough

# Common side effects of ARMONAIR DIGIHALER in people ages 4 to 11 years old include:

• infections in the ear, nose, and throat

These are not all the possible side effects with ARMONAIR DIGIHALER. 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 ARMONAIR DIGIHALER?

- Store ARMONAIR DIGIHALER at room temperature between 59°F and 77°F (15°C and 25°C).
- Store ARMONAIR DIGIHALER in a dry place. Avoid exposure to extreme heat, cold, or

humidity.

- Store ARMONAIR DIGIHALER in the unopened foil pouch until you are ready to use a dose of ARMONAIR DIGIHALER.
- Keep the green cap on the inhaler closed during storage.
- **Do not** take the ARMONAIR DIGIHALER inhaler apart.
- Keep your ARMONAIR DIGIHALER clean and dry at all times.
- Throw away ARMONAIR DIGIHALER when the dose counter displays **0**, 30 days after opening the foil pouch or after the expiration date on the product, whichever comes first.

## Keep ARMONAIR DIGIHALER and all medicines out of the reach of children.

# General information about the safe and effective use of ARMONAIR DIGIHALER.

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

You can ask your pharmacist or healthcare provider for information about ARMONAIR DIGIHALER that was written for health professionals.

## What are the ingredients in ARMONAIR DIGIHALER?

Active ingredient: fluticasone propionate.

**Inactive ingredients:** alpha lactose monohydrate (contains milk proteins).

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Manufactured for:

Teva Respiratory

Parsippany, NJ 07054

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For more information, go to www.ARMONAIRDIGIHALER.com or call 1-888-603-0788.

This Patient Information has been approved by the U.S. Food and Drug Administration. Revised: 03/2022

ARMDHPL-002

#### Instructions for Use

ARMONAIR® DIGIHALER® (ar´ moe nayr di´ji haye´´ ler) (fluticasone propionate) inhalation powder 30 mcg

ARMONAIR® DIGIHALER® (ar´ moe nayr di´ji haye´´ ler) (fluticasone propionate) inhalation powder 55 mcg

ARMONAIR® DIGIHALER® (ar´ moe nayr di´ji haye´´ ler) (fluticasone propionate) inhalation powder 113 mcg

ARMONAIR® DIGIHALER® (ar´ moe nayr di´ji haye´´ ler) (fluticasone propionate) inhalation powder 232 mcg

#### for oral inhalation use

#### Your ARMONAIR DIGIHALER Inhaler

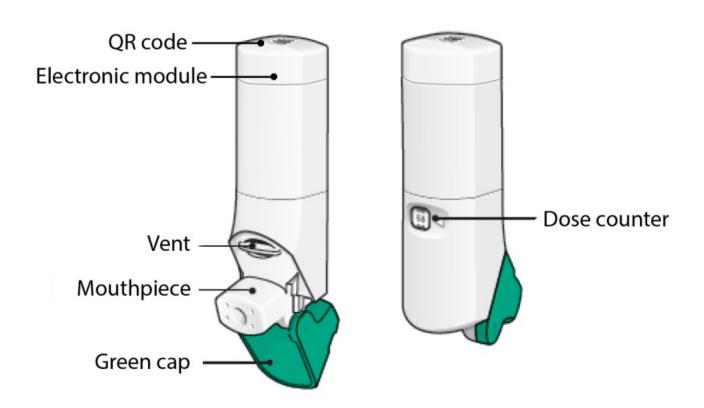
When you are ready to use ARMONAIR DIGIHALER for the first time, remove the ARMONAIR DIGIHALER inhaler from the foil pouch.

There are 3 main parts of your ARMONAIR DIGIHALER inhaler including the:

- white inhaler with the mouthpiece. See Figure A.
- green cap that covers the mouthpiece of the inhaler. **See Figure A**.
- electronic module. See Figure A.

There is an electronic module built into the top of the inhaler that detects, records and stores information about inhaler events. The electronic module sends information through Bluetooth<sup>®</sup> wireless technology to a mobile application (App). The electronic module does not control or interfere with delivery of the medicine through the inhaler.

There is a dose counter in the back of the inhaler with a viewing window that shows you how many doses of medicine you have left. **See Figure A**.



# Figure A

- Your ARMONAIR DIGIHALER inhaler contains 60 doses (inhalations). See Figure B.
- The dose counter shows the number of doses you have left in your inhaler.
- When there are 20 doses left, the color of the numbers on the dose counter will

- change to red and you should refill your prescription or ask your healthcare provider for another prescription.
- When the dose counter displays '0' your inhaler is empty and you should stop using the inhaler and throw it away. **See Figure B.**



## Figure B

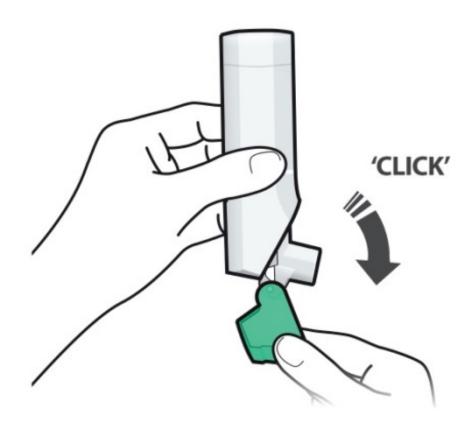
## Important:

- Always close the green cap after each inhalation so your inhaler will be ready for you to take your next dose. Do not open the green cap unless you are ready for your next dose.
- You will hear a "click" sound when the green cap is opened fully. If you do not hear the "click" sound the inhaler may not be activated to give you a dose of medicine.
- ARMONAIR DIGIHALER does not have an activation button or medicine canister. When you open the green cap, a dose of ARMONAIR DIGIHALER will be activated for delivery of the medicine.
- ARMONAIR DIGIHALER does not need to be wirelessly connected to the mobile application (App) in order for it to work and for you to take your medicine.
- **Do not** use a spacer or volume holding chamber with ARMONAIR DIGIHALER. ARMONAIR DIGIHALER does not need priming.
- If your child needs to use ARMONAIR DIGIHALER, watch your child closely to make sure your child uses the inhaler correctly.

# Using your ARMONAIR DIGIHALER inhaler

Important: Make sure the green cap is closed before you start using your inhaler.

# Step 1. Open



### Figure C

- Hold the inhaler upright and open the green cap all the way back until it "clicks". **See Figure C.**
- Each time you open the green cap and it clicks, a dose of ARMONAIR DIGIHALER is ready to be inhaled.
- **Do not** open the green cap until you are ready to take a dose of ARMONAIR DIGIHALER.

#### Remember:

- For correct use of ARMONAIR DIGIHALER, hold the inhaler upright as you open the green cap. See Figure D.
- **Do not** hold the inhaler in any other way as you open the green cap.

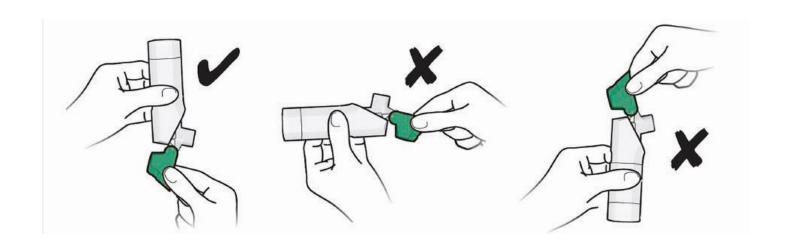
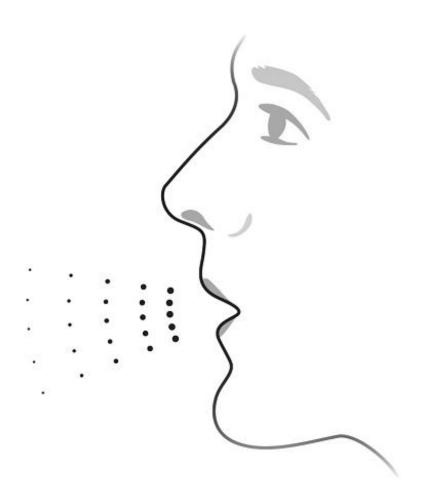
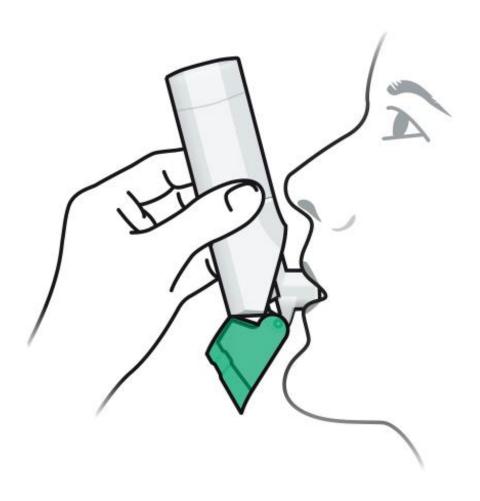


Figure D Step 2. Inhale



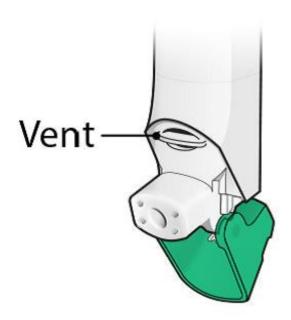
## Figure E

- Before you inhale, breathe out through your mouth away from the inhaler and push as much air from your lungs as you can. See Figure E.
  Do not breathe out into the inhaler mouthpiece.



## Figure F

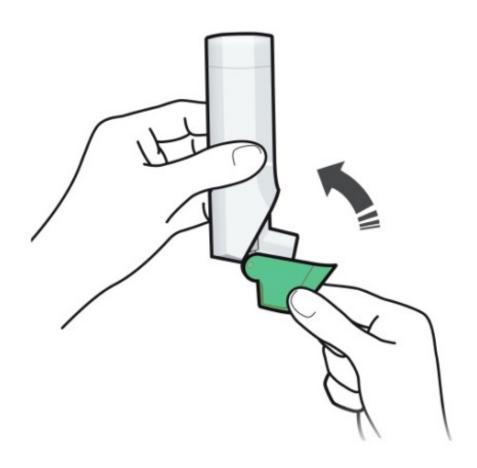
- Put the mouthpiece in your mouth and close your lips tightly around it. **See Figure F.**
- **Breathe in quickly and deeply through your mouth,** to deliver the dose of medicine to your lungs.



#### Figure G

- **Do not** block the vent above the mouthpiece with your lips or fingers. **See Figure G**.
- Remove the inhaler from your mouth.
- Hold your breath for about 10 seconds or for as long as you comfortably can.
- Your ARMONAIR DIGIHALER inhaler 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 inhaler even if you do not taste or feel the medicine.

#### Step 3. Close



## Figure H

- Close the green cap after each inhalation so that the inhaler will be ready for your next dose. See Figure H.
- Rinse your mouth with water without swallowing after each inhalation.

#### How should I store ARMONAIR DIGIHALER?

- Store ARMONAIR DIGIHALER at room temperature between 59°F and 77°F (15°C and 25°C).
- Store the ARMONAIR DIGIHALER in a dry place. Avoid exposure to extreme heat, cold, or humidity.

- Store ARMONAIR DIGIHALER in the unopened foil pouch and only open when ready for use.
- Keep the green cap on the inhaler closed during storage.
- Keep your ARMONAIR DIGIHALER inhaler dry and clean at all times.

# Keep your ARMONAIR DIGIHALER inhaler and all medicines out of the reach of children.

#### Cleaning your ARMONAIR DIGIHALER inhaler

- Do not wash or put any part of your ARMONAIR DIGIHALER inhaler in water. Replace your inhaler if washed or placed in water.
- ARMONAIR DIGIHALER contains a powder and must be kept clean and dry at all times.
- You can clean the mouthpiece if needed using a dry cloth or tissue. Routine cleaning is not required.
- **Do not** take the ARMONAIR DIGIHALER inhaler apart.

#### Replacing your ARMONAIR DIGIHALER inhaler

- Immediately replace your inhaler if the mouthpiece cover is damaged or broken. Never take the inhaler apart.
- The counter on the back of your inhaler shows how many doses you have left.
- When there are 20 doses left, the color of the numbers on the dose counter will change to red and you should refill your prescription or ask your healthcare provider for another prescription.
- When the counter displays '0' your ARMONAIR DIGIHALER inhaler is empty and you should stop using it.
- Throw away ARMONAIR DIGIHALER 30 days after removing it from the foil pouch for the first time, when the dose counter displays '0', or after the expiration date on the package, whichever comes first.
- ARMONAIR DIGIHALER contains a lithium manganese dioxide battery and should be thrown away (disposed of) in accordance with state and local regulations.

### Important information

- **Do not** open the green cap unless you are taking a dose. Opening and closing the green cap without inhaling a dose will waste the medicine and may damage your inhaler.
- Your ARMONAIR DIGIHALER inhaler contains dry powder so it is important that you do not blow or breathe into it.

## Support

- For instructions on setting up the mobile application (App), go to www.ArmonAir.com or call Teva at 1-888-603-0788.
- If you have any questions about ARMONAIR DIGIHALER or how to use your inhaler, go to www.ArmonAirDigihaler.com, or call 1-888-603-0788.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by Teva could void the user's authority to operate the equipment.

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Manufactured for:

Teva Respiratory

Parsippany, NJ 07054

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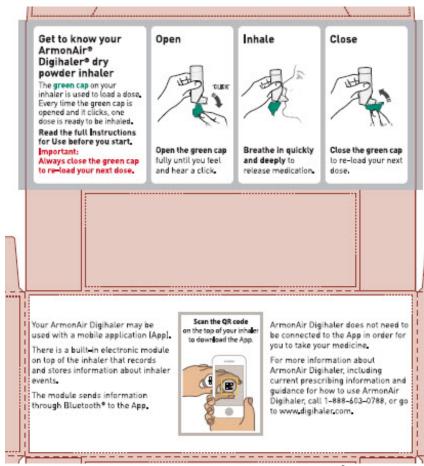
#### ARMDHIFU-002

This Instructions for Use has been approved by the U.S. Food and Drug Administration.

Revised: 04/2022

#### NDC 59310-114-06 55 mcg





55 mcg inner carton

NDC 59310-114-06

**Rx Only** 

**ArmonAir®** 

Digihaler® 55

(fluticasone propionate 55 mcg) Inhalation Powder

55 mcg

With Dose Counter

FOR ORAL INHALATION ONLY

**60 METERED INHALATIONS** 

#### 0.9 g NET CONTENTS

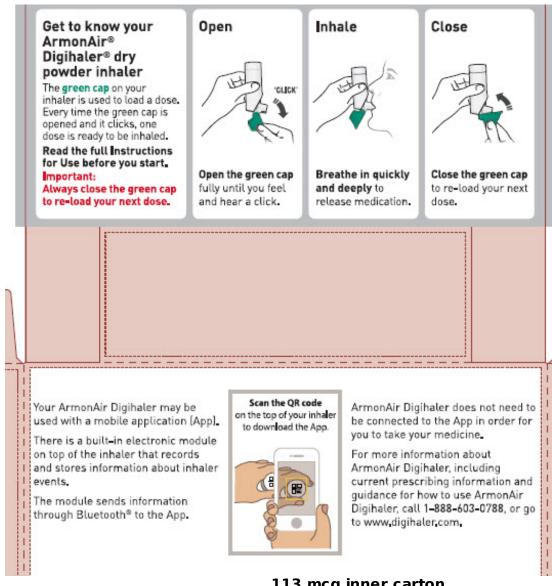
Refer to enclosed Patient Leaflet and Instructions for Use for detailed information on product use and handling.

Rev. 01/2022

NDC 59310-200-06 113 mcg



Carton 113 mcg



113 mcg inner carton

NDC 59310-200-06

**Rx Only** 

**ArmonAir®** 

Digihaler® 113

(fluticasone propionate 113 mcg) Inhalation Powder

**113 mcg** 

With Dose Counter

FOR ORAL INHALATION ONLY

**60 METERED INHALATIONS** 

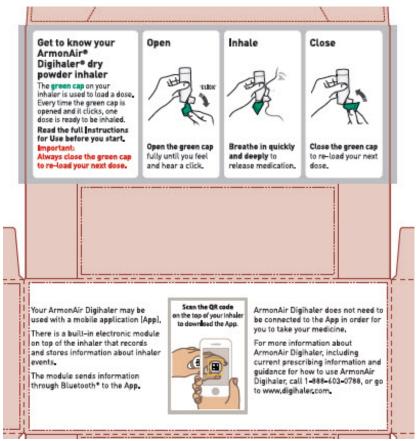
#### 0.9 g NET CONTENTS

Refer to enclosed Patient Leaflet and Instructions for Use for detailed information on product use and handling.

#### NDC 59310-311-06 232 mcg



232 mcg carton



232 inner carton

NDC 59310-311-06

**Rx Only** 

**ArmonAir®** 

Digihaler® 232

(fluticasone propionate 232 mcg) Inhalation Powder

232 mcg

With Dose Counter

FOR ORAL INHALATION ONLY

**60 METERED INHALATIONS** 

#### 0.9 g NET CONTENTS

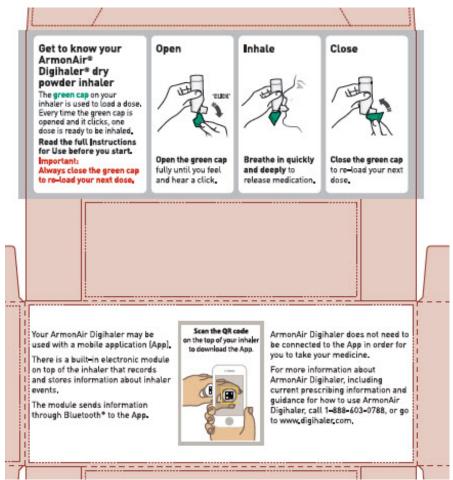
Refer to enclosed Patient Leaflet and Instructions for Use for detailed information on product use and handling.

Rev 01/2022

NDC 59310-515-08 113 mcg Sample



Sample Carton 113 mcg



Sample 113 mcg inner carton

NDC 59310-200-06

**Rx Only** 

ArmonAir® Digihaler® 113

(fluticasone propionate 113 mcg) Inhalation Powder

SAMPLE NOT FOR SALE

113 mcg

With Dose Counter

FOR ORAL INHALATION ONLY

**60 METERED INHALATIONS** 

0.9 g NET CONTENTS

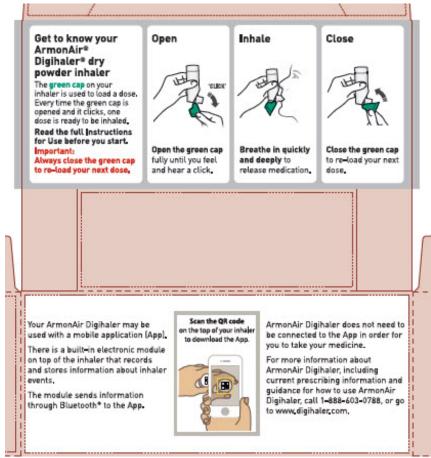
Refer to enclosed Patient Leaflet and Instructions for Use for detailed information on product use and handling.

Rev 01/2022

NDC 59310-525-08 232 mcg Sample



Sample Carton 232 mcg



Inner Carton Sample 232 mcg

NDC 59310-311-06

**Rx Only** 

ArmonAir® Digihaler® 232

(fluticasone propionate 232 mcg) Inhalation Powder

SAMPLE NOT FOR SALE

232 mcg

With Dose Counter

FOR ORAL INHALATION ONLY

**60 METERED INHALATIONS** 

0.9 g NET CONTENTS

Refer to enclosed Patient Leaflet and Instructions for Use for detailed information on product use and handling.

Rev 01/2022

#### ARMONAIR DIGIHALER

fluticasone propionate powder, metered

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:59310-114	
Route of Administration	RESPIRATORY (INHALATION)			

Active Ingredient/Active Moiety				
Ingredient Name	<b>Basis of Strength</b>	Strength		
FLUTICASONE PROPIONATE (UNII: O2GMZ0LF5W) (FLUTICASONE - UNII:CUT2W21N7U)	FLUTICAS ONE PROPIONATE	55 ug		

Inactive Ingredients	
Ingredient Name	Strength
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	

P	Packaging				
#	ltem Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:59310- 114-06	1 in 1 CARTON	09/15/2020	09/30/2024	
1		1 in 1 POUCH			
1		60 in 1 INHALER; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)			

Marketing Information				
Marketing Application Number or Monograph Category Citation		Marketing Start Date	Marketing End Date	
NDA	NDA208798	09/15/2020	09/30/2024	

fluticasone propionate powder, metered

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:59310-200	
Route of Administration	RESPIRATORY (INHALATION)			

Active Ingredient/Active Moiety		
Ingredient Name	<b>Basis of Strength</b>	Strength
FLUTICASONE PROPIONATE (UNII: O2GMZ0LF5W) (FLUTICASONE - UNII:CUT2W21N7U)	FLUTICAS ONE PROPIONATE	113 ug

## **Inactive Ingredients**

Ingredient Name	Strength
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	

P	Packaging				
#	ltem Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:59310- 200-06	1 in 1 CARTON	09/15/2020	01/31/2026	
1		1 in 1 POUCH			
1		60 in 1 INHALER; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)			

Marketing Information			
Marketing Application Number or Monograph Marketing Start Category Citation Date		Marketing End Date	
NDA	NDA208798	09/15/2020	01/31/2026
NDA			

fluticasone propionate powder, metered

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:59310-311	
Route of Administration	RESPIRATORY (INHALATION)			

Active Ingredient/Active Moiety			
l	Ingredient Name	<b>Basis of Strength</b>	Strength
	FLUTICASONE PROPIONATE (UNII: O2GMZ0LF5W) (FLUTICASONE - UNII:CUT2W21N7U)	FLUTICAS ONE PROPIONATE	232 ug

Inactive Ingredients			
Ingredient Name	Strength		
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)			

Packaging				
Item Code	Package Description	Marketing Start Date	Marketing End Date	
NDC:59310- 311-06	1 in 1 CARTON	09/15/2020	09/30/2025	
	1 in 1 POUCH			
	60 in 1 INHALER; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)			
	Item Code NDC:59310-	NDC:59310- 311-06  1 in 1 CARTON  1 in 1 POUCH  60 in 1 INHALER; Type 2: Prefilled Drug Delivery	Item Code  Package Description  Marketing Start Date  NDC:59310- 311-06  1 in 1 CARTON  1 in 1 POUCH  60 in 1 INHALER; Type 2: Prefilled Drug Delivery	

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
NDA	NDA208798	09/15/2020	09/30/2025	

fluticasone propionate powder, metered

#### **Product Information**

Product Type HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:59310-505

**Route of Administration** RESPIRATORY (INHALATION)

#### **Active Ingredient/Active Moiety**

Ingredient Name

FLUTICASONE PROPIONATE (UNII: O2GMZ 0LF5W) (FLUTICASONE - UNII:CUT2W21N7U)

Basis of Strength
FLUTICASONE - FLUTICASONE - PROPIONATE

55 ug

Inactive Ingredients	
Ingredient Name	Strength
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	

P	Packaging				
#	ltem Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:59310- 505-08	1 in 1 CARTON	09/15/2020	09/30/2024	
1		1 in 1 POUCH			
1		60 in 1 INHALER; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)			

Marketing Information				
Marketing Category	Marketing End Date			
NDA	NDA208798	09/15/2020	09/30/2024	

#### ARMONAIR DIGIHALER

fluticasone propionate powder, metered

#### **Product Information**

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:59310-515
Route of Administration	RESPIRATORY (INHALATION)		

	Active Ingredient/Active Moiety		
ı	Ingredient Name	<b>Basis of Strength</b>	Strength
	<b>FLUTICASONE PROPIONATE</b> (UNII: O2GMZ0LF5W) (FLUTICASONE - UNII:CUT2W21N7U)	FLUTICAS ONE PROPIONATE	113 ug

Inactive Ingredients			
Ingredient Name	Strength		
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)			

P	Packaging					
#	ltem Code	Package Description	Marketing Start Date	Marketing End Date		
1	NDC:59310- 515-08	1 in 1 CARTON	09/15/2020	01/31/2026		
1		1 in 1 POUCH				
1		60 in 1 INHALER; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)				

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
NDA	NDA208798	09/15/2020	01/31/2026	

fluticasone propionate powder, metered

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:59310-525	
Route of Administration	RESPIRATORY (INHALATION)			

Active Ingredient/Active Moiety					
Ingredient Name	<b>Basis of Strength</b>	Strength			
FLUTICASONE PROPIONATE (UNII: O2GMZ0LF5W) (FLUTICASONE - UNII:CUT2W21N7U)	FLUTICAS ONE PROPIONATE	232 ug			

Inactive Ingredients	
Ingredient Name	Strength

#### LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)

Packaging						
#	Item Code	Package Description	Marketing Start Date	Marketing End Date		
1	NDC:59310- 525-08	1 in 1 CARTON	09/15/2020	09/30/2025		
1		1 in 1 POUCH				
1		60 in 1 INHALER; Type 2: Prefilled Drug Delivery Device/System (syringe, patch, etc.)				

Marketing I	arketing Information					
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date			
NDA	NDA208798	09/15/2020	09/30/2025			

## Labeler - Teva Respiratory, LLC (176697907)

Revised: 4/2022 Teva Respiratory, LLC