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FRONT

SERETIDE ACCUHALER/DISKUS

QUALITATIVE AND QUANTITATIVE COMPOSITION

Moulded plastic device containing a foil strip with 28 or 60 regularly placed blisters each containing 50 micrograms of salmeterol as salmeterol xinafoate and 100 micrograms of fluticasone propionate.

Moulded plastic device containing a foil strip with 28 or 60 regularly placed blisters each containing 50 micrograms of salmeterol as salmeterol xinafoate

and 250 micrograms of fluticasone propionate Molded plastic device containing a foil strip with 28 or 60 regularly placed blisters each containing 50 micrograms of salmeterol as salmeterol xinafoate and 500 micrograms of fluticasone propionate.

CLINICAL INFORMATION Indications

Pharmaceutical form: Inhalation powde

Asthma (Reversible Obstructive Airways Disease) SERETIDE is indicated in the regular treatment of asthma (Reversible Obstructive Airways Disease).

This may include:

Patients on effective maintenance doses of long-acting beta-agonists and inhaled corticosteroids. Patients who are symptomatic on current inhaled corticosteroid therapy.

Patients on regular bronchodilator therapy who require inhaled corticosteroids. Chronic Obstructive Pulmonary Disease (COPD)

SEREFIDE is indicated for the regular treatment of chronic obstructive pulmonary disease (COPD) including chronic bronchitis and emphysema and has been

shown to reduce all-cause mortality. Dosage and Administration SERETIDE Accuhaler/Diskus is for inhalation only.

Patients should be made aware that SERETIDE Accuhaler/Diskus must be used regularly for optimum benefit, even when asymptomatic. Patients should be regularly reassessed by a doctor, so that the strength of SERETIDE they are receiving remains optimal and is only changed on medical advice.

Asthma (Reversible Obstructive Airways Disease)

Astima (Reversible Obstructive Airways Disease) The dose should be titrated to the lowest dose at which effective control of symptoms is maintained. Where the control of symptoms is maintained with twice daily SERETIDE, titration to the lowest effective dose could include SERETIDE given once daily. Patients should be titrated to the lowest dose at which effective control of symptoms is maintained with twice daily SERETIDE, titration to the lowest effective dose could include SERETIDE given once daily. Patients should be given the strength of SERETIDE containing the appropriate fluticasone propionate dosage for the severity of their disease. If a patient is inadequately controlled on inhaled corticosteroid therapy alone, substitution with SERETIDE at a therapeutically equivalent corticosteroid dose may result in an improvement in asthma control. For patients whose asthma control is acceptable on inhaled corticosteroid therapy alone, substitution with SERETIDE may permit a reduction in corticosteroid dose while maintaining asthma control. For further information, please refer to the 'Pharmacodynamics' section. Recommended Doses:

Recommended Doses:-Adults and adolescents 12 years and older:-One inhalation (50 micrograms salmeterol and 100 micrograms fluticasone propionate) twice daily.

One inhalation (50 micrograms salmeterol and 250 micrograms fluticasone propionate) twice daily.

One inhalation (50 micrograms salmeterol and 500 micrograms fluticasone propionate) twice daily. Children 4 years and older:-

One inhalation (50 micrograms salmeterol and 100 micrograms fluticasone propionate) twice daily.

There are no data available for use of SERETIDE in children aged under 4 years. Chronic Obstructive Pulmonary Disease (COPD)

For adult patients the recommended dose is one inhalation 50/250 micrograms to 50/500 micrograms salmeterol/fluticasone propionate twice daily. At a dose of 50/500 micrograms twice daily, SERETIDE has been shown to reduce all-cause mortality (see Clinical Studies).

Special patient groups:-There is no need to adjust the dose in elderly patients or in those with renal or hepatic impairment

Contraindications SERETIDE is contraindicated in patients with a history of hypersensitivity to any of the ingredients

SERETIDE is contraindicated in patients with severe milk-protein allergy. Warnings and Precautions

SERETIDE Accuhaler/Diskus is not for relief of acute symptoms for which a fast and short-acting bronchodilator (e.g. salbutamol) is required. Patients should be

advised to have their relief medication available at all times. Increasing use of short-acting bronchodilators to relieve symptoms indicates deterioration of control and patients should be reviewed by a physician. Sudden and progressive deterioration in control of asthma is potentially life-threatening and the patient should be reviewed by a physician. Consideration should

be given to increasing corticosteroid therapy. Also, where the current dosage of SERETIDE has failed to give adequate control of asthma, the patient should be reviewed by a physician. Treatment with SERETIDE should not be stopped abruptly in patients with asthma due to risk of exacerbation, therapy should be titrated-down under physician

supervision. For patients with COPD cessation of therapy may be associated with symptomatic decompensation and should be supervised by a physician. There was an increased reporting of pneumonia in studies of patients with COPD receiving SERETIDE (see Adverse Reactions). Physicians should remain vigilant for the possible development of pneumonia in patients with COPD as the clinical features of pneumonia and exacerbation frequently overlap. As with all inhaled medication containing corticosteroids, SERETIDE should be administered with caution in patients with active or quiescent pulmonary

SERETIDE should be administered with caution in patients with thyrotoxicosis.

Cardiovascular effects, such as increases in systolic blood pressure and heart rate, may occasionally be seen with all sympathomimetic drugs, especially at higher than therapeutic doses. For this reason, SERETIDE should be used with caution in patients with pre-existing cardiovascular disease. A transient decrease in serum potassium may occur with all sympathomimetic drugs at higher therapeutic doses. Therefore, SERETIDE should be used with caution

in patients predisposed to low levels of serum potassium. Systemic effects may occur with any inhaled corticosteroid, particularly at high doses prescribed for long periods; these effects are much less likely to occur than with oral corticosteroids (see Overdose). Possible systemic effects include Cushing's syndrome, Cushingoid features, adrenal suppression, growth retardation in children and adolescents, decrease in bone mineral density, cataract, glaucoma and central serous chorioretinopathy. It is important, therefore for asthma patients, that the dose of inhaled corticosteroid is titrated to the lowest dose at which effective control is maintained. The possibility of impaired adrenal response should always be borne in mind in emergency and elective situations likely to produce stress and appropriate

corticosteroid treatment considered (see Overdose).

corticosteroid treatment considered (see Overadose). It is recommended that the height of children receiving prolonged treatment with inhaled corticosteroid is regularly monitored. Because of the possibility of impaired adrenal response, patients transferring from oral steroid therapy to inhaled fluticasone propionate therapy should be treated with special care, and adrenocortical function regularly monitored. Following introduction of inhaled fluticasone propionate, withdrawal of systemic therapy should be gradual and patients encouraged to carry a steroid warning card indicating the possible need for additional therapy in times of stress.

There have been very rare reports of increases in blood glucose levels (see Adverse Reactions) and this should be considered when prescribing to patients with a history of diabetes mellitus.

During post-marketing 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. Therefore, concomitant use of fluticasone propionate and ritonavir should be avoided, unless the potential benefit to the patient outweighs the risk of systemic corticosteroid side-effects (see Interactions). It was observed in a drug interaction study that concomitant use of systemic ketoconazole increases exposure to SEREVENT. This may lead to prolongation in the QTc interval. Caution should be exercised when strong CYP3A4 inhibitors (e.g. ketoconazole) are co-administered with SEREVENT. (see Interactions, on

nacokinetics). As with other inhalation therapy paradoxical bronchospasm may occur with an immediate increase in wheezing after dosing. This should be treated immediately with a fast and short-acting inhaled branchodilator. Salmeterol-FP Accuhaler/Diskus or Evohaler should be discontinued immediately, the patient assessed and alternative therapy instituted if necessary. (see Adverse Reactions) The pharmacological side-effects of beta₂-agonist treatment, such as tremor, subjective palpitations and headache have been reported, but tend to be transient

and to reduce with regular therapy. (see Adverse Reactions)

Interactions Both non-selective and selective beta-blockers should be avoided unless there are compelling reasons for their use.

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A drug interaction study in healthy subjects has shown that ritonavir (a highly potent cytochrome P450 3AF inhibitor) can greatly increase fluticasone propionate plasma concentrations, resulting in markedly reduced serum cortisol concentrations. During post-marketing use, there have been reports of clinically significant drug interactions in patients receiving intranasal or inhaled fluticasone propionate and ritonavir, resulting in systemic corticosteroid effects including Cushing's syndrome and adrenal suppression. Therefore, concomitant use of fluticasone propionate and ritonavir should be avoided, unless the potential benefit to the sprinter and automation suppression. Intercore, concontrant does in interession propriorite and interval sind of avoince, unless the potential ocient to the patient outweights the risk of systemic corticosteroid side-effects. Studies have shown that other inhibitors of cytochrome P450 3A4 produce negligible (erythromycin) and minor (ketoconazole) increases in systemic exposure

to flutteasone propionate without notable reductions in serum cortisol concentrations. Nevertheless, care is advised when co-administering potent cytochrome P450 3A4 inhibitors (e.g. ketoconazole) as there is potential for increased systemic exposure to fluticasone propionate. Co-administration of ketoconazole and SEREVENT resulted in a significant increase in plasma salmeterol exposure (1.4-foid Cmax and 15-fold AUC) and this may

cause a prolongation of the QTc interval. (see Warnings and Precautions, and Pharmacokinetics) Pregnancy and Lactation There are no data on human fertility. Animal studies indicate no effects of fluticasone propionate or salmeterol xinafoate on male or female fertility.

There are limited data in pregnant women. Administration of drugs during pregnancy should only be considered if the expected benefit to the mother is greater than any possible risk to the foetus or child. Results from a retrospective epidemiological study did not find an increased risk of major congenital malformations (MCMs) following exposure to fluctasone

propionate when compared to other inhaled corticosteroids, during the first trimester of pregnancy (see *Pharmacodynamics*). Reproductive toxicity studies in animals, either with single drug or in combination, revealed the foetal effects expected at excessive systemic exposure levels of a potent beta2-adrenoreceptor agonist and glucocorticosteroid

Extensive clinical experience with drugs in these classes has revealed no evidence that the effects are relevant at therapeutic doses.

Salmeterol and fluticasone propionate concentrations in plasma after inhaled therapeutic doses are very low and therefore concentrations in human breast milk are likely to be correspondingly low. This is supported by studies in lactating animals, in which low drug concentrations were measured in milk. There are no data available for human breast milk.

Administration during lactation should only be considered if the expected benefit to the mother is greater than any possible risk to the child. Effects on Ability to Drive and Use Machines There have been no specific studies of the effect of SERETIDE on the above activities, but the pharmacology of both drugs does not indicate any effect. Adverse Reactions All of the adverse reactions associated with the individual components, salmeterol xinafoate and fluticasone propionate, are listed below. There are no additional

Adverse reactions attributed to the combination product when compared to the adverse event profiles of the individual components. Adverse events are listed below by system organ class and frequency. Frequencies are defined as: very common (\geq 1/10), common (\geq 1/100), rare (\geq 1/1000 to <1/1000) and very rare (<1/10,000). The majority of frequencies were determined from pooled clinical trial data from 23 asthma and 7 COPD studies. Not all events were reported in clinical trials. For these events, the frequency was calculated based on spontaneous data. Clinical Trial Data Infections and infestations

Common: Candidiasis of mouth and throat pneumonia (in COPD patients)

Rare: Oesophageal candidias Immune system disorders

Hypersensitivity Reactions:

mon: Cutaneous hypersensitivity reactions, dyspnoea. are: Anaphylactic reactions

Endocrine disorders Possible systemic effects include (see Warnings and Precautions) Uncommon: Cataract

Rare: Glaucoma

Metabolism and nutrition disorders

common: Hyperglycaer Psychiatric disorders

Uncommon: Anxiety, sleep disorders. Rare: Behavioural changes, including hyperactivity and irritability (predominantly in children).

Nervous system disorders Very common: Headache (see Warnings and Precautions). Uncommon: Tremor (see Warnings and Precautions).

Cardiac disorders

Uncommon: Palpitations (see Warnings and Precautions), tachycardia, atrial fibrillation. Rare: Cardiac arrhythmias including supraventricular tachycardia and extrasystoles. Respiratory, thoracic and mediastinal disorders

mon: Throat irritatior

Skin and subcutaneous tissue disorders

Musculoskeletal and connective tissue disorders

Common: Muscle cramps, arthralgia.

Postmarketing Data Immune system disorders

Hypersensitivity reactions manifesting as: Rare: Angioedema (mainly facial and oropharyngeal oedema) and bronchospasm.

Endocrine disorders

Possible systemic effects include (see Warnings and Precautions). Res: Cushing's syndrome, Cushingoid features, adrenal suppression, growth retardation in children and adolescents, decreased bone mineral density. Respiratory, thoracic and mediastinal disorders

Rare: Paradoxical bronchospasm (see Warnings and Precautions)

The available information on overdose with SERETIDE, salmeterol and/or fluticasone propionate is given below:

The expected symptoms and signs of salmeterol overdosage are those typical of excessive beta₂-adrenergic stimulation, including tremor, headache, tachycardia, increases in systolic blood pressure and hypokalaemia. There is no specific treatment for an overdose of salmeterol and fluticasone propionate. If overdose occurs, the patient should be treated supportively with appropriate monitoring as necessary.

the patient should be treated supportively with appropriate monitoring as necessary. Acute inhalation of fluticasone propionate doses in excess of those approved may lead to temporary suppression of the hypothalamic-pituitary-adrenal axis. This does not usually require emergency action as normal adrenal function typically recovers within a few days. If higher than approved doses of *SERETIDE* are continued over prolonged periods, significant adrenocortical suppression is possible. There have been very rare reports of acute adrenal crisis, mainly occurring in children exposed to higher than approved doses over prolonged periods (several months or years); observed features have included hypoglycaemia associated with decreased consciousness and/or convulsions. Situations which could potentially trigger acute adrenal crisis include exposure to trauma, surgery, infection or any rapid reduction in the dosage of the inhaled fluticasone propionate component. It is not recommended that patients receive higher than approved doses of *SERETIDE*. It is important to review therapy regularly and titrate down to the lowest approved dose at which effective control of disease is maintained (see *Dosage and Administration*). **PHARMACOLOGICAL PROPERTIES Pharmacodynamics**

Pharmacodynamics

Salmeterol Multi-center Asthma Research Trial (SMART) The Salmeterol Multi-center Asthma Research Trial (SMART) was a 28-week US study that evaluated the safety of salmeterol compared to placebo added to usual therapy in adult and adoler seturing resonance of the seture of study that a 20 study that and adoler seture of study that and adoler seture of the seture o concurrent inhaled corticosteroid use. Safety and efficacy of salmeterol-FP versus FP alone in asthma

Safety and efficacy of salmeterol-FP versus PP alone in astima Two multi-centre 26-week studies were conducted to compare the safety and efficacy of salmeterol-FP versus FP alone, one in adult and adolescent subjects (AUSTRI trial), and the other in paediatric subjects 4-11 years of age (VESTRI trial). For both studies, enrolled subjects had moderate to severe persistent asthma with history of asthma-related hospitalisation or asthma exacerbation in the previous year. The primary objective of each study was to determine whether the addition of LABA to ICS therapy (salmeterol-FP) was non-inferior to ICS (FP) alone in terms of the risk of serious asthma related events (asthma-related superior to ICS therapy alone (FP) in terms of severe asthma exacerbation (defined as deterioration of asthma requiring the use of systemic corticosteroids for at least 3 days or an in-patient hospitalisation or emergency department visit due to asthma that required systemic corticosteroids). A total of 11,679 and 6,208 subjects were randomized and received treatment in the AUSTRI and VESTRI trials, respectively. For the primary safety endpoint, non-inferiority was achieved for both trials (see Table below). Serious Asthma-Related Events in the 26-Week AUSTRI and VESTRI Trials

	AUS	STRI	VES	STRI
	Salmeterol-FP (n = 5,834)	FP Alone (n = 5,845)	Salmeterol-FP (n = 3,107)	FP Alone (n = 3,101)
Composite endpoint (Asthma-related hospitalisation, endotracheal intubation, or death)	34 (0.6%)	33 (0.6%)	27 (0.9%)	21 (0.7%)
Salmeterol-FP/FP Hazard ratio (95% CI)	1.029 (0.638-1.662) ^a		1.285 (0.726-2.272) ^b	
Death	0	0	0	0
Asthma-related hospitalisation	34	33	27	21
Endotracheal intubation	0	2	0	0

If the resulting upper 95% Cl estimate for the relative risk was less than 2.0, then non-inferiority was concluded.
 If the resulting upper 95% Cl estimate for the relative risk was less than 2.675, then non-inferiority was concluded.

For the secondary efficacy endpoint, reduction in time to first asthma exacerbation for salmeterol-FP relative to FP was seen in both studies, however only AUSTRI met statistical significance

VESTRI AUSTRI Salmeterol-F FP Alon FP Alone Salmeterol-F (n = 5.834)(n = 5.845)(n = 3.107)(n = 3, 101)umber of subjects with an asthma 480 (8%) 597 (10%) 265 (9%) 309 (10%) Salmeterol-FP/FP Hazard ratio (95% CI) 0.787 0.859 (0.698, 0.888) (0.729, 1.012)

Twelve month study A large twelve-month study (Gaining Optimal Asthma Control, GOAL) in 3416 asthma patients compared the efficacy and safety of SERETIDE versus inhaled orticosteroid alone in achieving pre-defined levels of asthma control. Treatment was stepped-up every 12 weeks until ##Total control' was achieved or the highest dose of study drug was reached. Control needed to be sustained for at least 7 out of the last 8 weeks of treatment. The study showed that: • 71% of patients treated with SERETIDE achieved #Well-controlled' asthma compared with 59% of patients treated with inhaled corticosteroid alone. • 41% of patients treated with SERETIDE achieved #*Total control' of asthma compared with 28% of patients treated with inhaled corticosteroid alone. These effects were observed earlier with SERETIDE compared with inhaled corticosteroid alone and at a lower inhaled corticosteroid dose. The GOAL study also showed that:

The rate of exacerbations was 29% lower with SERETIDE compared to inhaled corticosteroid treatment alone.

Attaining "Well controlled" and "Totally controlled" asthma improved Quality of Life (QoL). 61% of patients reported minimal or no impairment on QoL, as
measured by an asthma specific quality of life questionnaire, after treatment with SERETIDE compared to 8% at baseline.

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Well controlled asthma; less than or equal to 2 days with symptom score greater than 1 (symptom score 1 defined as 'symptoms for one short period during the day), SABA use on less than or equal to 2 days and less than or equal to 4 occasions/week, greater than or equal to 80% predicted morning peak expiratory flow, no night-time awakenings, no exacerbations and no side effects enforcing a change in therapy. "Total control of asthma; no symptoms, no SABA use, greater than or equal to 80% predicted morning peak expiratory flow, no night-time awakenings, no

exacerbations and no side effects enforcing a change in therapy. Two further studies have shown improvements in lung function, percentage of symptom free days and reduction in rescue medication use, at 60% lower inhaled corticosteroid dose with SERETIDE compared to treatment with inhaled corticosteroid alone, whilst the control of the underlying airway inflammation, measured by bronchial biopsy and bronchoalveolar lavage, was maintained. Additional studies have shown that treatment with SERETIDE significantly improves asthma symptoms. Jung function and reduces the use of rescue medication

compared to treatment with the individual components alone and placebo. Results from GOAL show that the improvements seen with SERETIDE, in these endpoints, are maintained over at least 12 months.

Symptomatic COPD patients without restriction to 10% reversibility to a short acting beta₂-agonist:-Placebo-controlled clinical trials, over 6 months, have shown that regular use of both SERETIDE 50/250 and

Solption micrograms rapidly and significantly improves lung function, significantly reduced breathles solption and the use of relief medication. There were also significant improvements in health status. Symptomatic COPD patients who demonstrated less than 10% reversibility to a short acting beta2-agonist:-Placebo-controlled clinical trials, over 6 and 12 months, have shown that regular use of *SERETIDE* 50/500 micrograms rapidly and significantly improves lung function, significantly reduced breathlessness and the use of relief medication. Over a 12-month period the risk of COPD exacerbations and the need for additional courses of oral corticosteroids was significantly reduced breathlessness and the use of relief medication.



significantly reduced. There were also significant improvements in health status. SERETIDE 50/500 micrograms was effective in improving lung function, health status and reducing the risk of COPD exacerbations, in both current and ex-smokers.

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twice daily, salmeterol Accuhaler/Diskus 50 micrograms twice daily, IP Accuhaler/Diskus 50000 micrograms twice daily or placebo on all-cause mortality in patients with COPD. Patients with moderate to severe COPD with a baseline (pre-bronchodilator) FEV₁ <60% of predicted normal were randomised to double-blind medication. During the study, patients were permitted usual COPD therapy with the exception of other inhaled corticosteroids, long-acting bronchodilators, and long-term systemic corticosteroids. Survival status at 3 years was determined for all patients regardless of withdrawal from study medication. The primary endpoint was reduction in all-cause mortality at 3 years for SERETIDE vs alsoches.

	Placebo N = 1524	Salmeterol 50 N = 1521	FP 500 N = 1534	SERETIDE 50/500 N = 1533
	All cause mor	tality at 3 years		
Number of deaths (%)	231 (15.2%)	205 (13.5%)	246 (16.0%)	193 (12.6%)
Hazard Ratio vs Placebo (Cls) p value	N/A	0.879 (0.73, 1.06) 0.180	1.060 (0.89, 1.27) 0.525	0.825 (0.68, 1.00) 0.0521
Hazard Ratio SERETIDE 50/500 vs components (Cls) p value	N/A	0.932 (0.77, 1.13) 0.481	0.774 (0.64, 0.93) 0.007	N/A

1. P value adjusted for 2 interim analyses on the primary efficacy comparison from a log-rank analysis stratified by smoking status SEREFIDE reduced the risk of dying at any time during the 3 years by 17.5% compared to placebo (Hazard Ratio 0.825 (95% CI 0.68, 1.00, p=0.052; all adjusted for interim analyses). There was a 12% reduction in the risk of dying at any time within 3 years from any cause for salmeterol compared with placebo

adjusted for interim analyses). There was a 12% reduction in the risk of dying at any time within 3 years from any cause for salmeterol compared with placebo (p=0.180) and a 6% increase for FP compared with placebo (p=0.525). A supporting analysis using Cox's Proportional Hazards model gave a hazard ratio of 0.811 (95% Cl 0.670, 0.982, p=0.031) for *SERETIDE* vs placebo which represented a 19% reduction in the risk of dying at any time within 3 years. The model adjusted for important factors (smoking status, age, sex, region, baseline FEV₁ and Body Mass Index). There was no evidence that treatment effects varied for these factors. The percentage of patients who died within 3 years due to COPD-related causes was 6.0% for placebo, 6.1% for salmeterol, 6.9% for FP and 4.7% for *SERETIDE*. *SERETIDE* reduced the rate of moderate to severe exacerbations by 25% (95% Cl: 19% to 31%; p<0.001) compared with placebo. *SERETIDE* reduced the exacerbation rate by 12% compared with placebo (15% to 19% objective). Health Related Quality of Life, as measured by the St George's Respiratory Questionnaire (SGRQ) was improved by all active treatment or three years for *SERETIDE* compared with placebo was -3.1 units (95% Cl: -4.1 to -2.1; p<0.001), compared with placebo. The average improvement over three years for *SERETIDE* compared with placebo units placebo. The average improvement over three years for *SERETIDE* compared with placebo was -3.1 units (95% Cl: -4.1 to -2.1; p<0.001), compared with FP was -1 units (P=0.001).

Sameterol was -2.2 units (p-0.001) and compared with FP was -1.2 units (p=0.017). Over the 3 year treatment period, FEV₁ values were higher in subjects treated with *SERETIDE* than for those treated with placebo (average difference over 3 years 92 mL, 95% Cl: 75 to 108 mL; p<0.001). *SERETIDE* was also more effective than salmeterol or FP in improving FEV₁ (average difference 50 mL, p<0.001 for

 32 m_{12} ysw 61.7 ys 10 to 100 mL pt 2000); Schube was also more effective than sameterion of PF in improving PEV 1 average differences of mL pt 2000 For sameterol and 44 mL pt 2000 for PP. The estimated 3 year probability of having pneumonia reported as an adverse event was 12.3% for placebo, 13.3% for sameterol, 18.3% for P and 19.6% for SCRETIDE (Hazard ratio for SCRETIDE vs placebo: 1.64, 95% C1: 1.33 to 2.01, pt 2001). There was no increase in pneumonia related deaths; deaths while on treatment that were adjudicated as primarily due to pneumonia were 7 for placebo, 9 for salmeterol, 13 for PF and 8 for SCRETIDE. There was no significant difference in probability of bone fracture (5.1% placebo, 5.1% salmeterol, 5.4% PF and 6.3% SCRETIDE; Hazard ratio for SCRETIDE vs placebo: 1.22, 95% C1: 0.87 to 1.72 o. 0.2001. The institution of otherwork of divergence disorder or 4 UDA wird directure use the or add there one of difference of directore one of the one 1.72, p=0.248). The incidence of adverse events of eye disorders, bone disorders, and HPA axis disorders was low and there was no difference observed betweer

1.72, p=0.249). The incidence of adverse events of eye disorders, bone disorders, and HPA axis disorders was low and there was no difference observed between treatments. There was no evidence of an increase in cardiac adverse events in the treatment groups receiving salmeterol. Fluticasone propionate containing medications in asthma during pregnancy An observational retrospective epidemiological cohort study utilising electronic health records from the United Kingdom was conducted to evaluate the risk of MCMs following first trimester exposure to inhaled FP alone and *SERETIDE* relative to non-FP containing ICS. No placebo comparator was included in this study. Within the asthma cohort of 5362 first trimester ICS-exposed pregnancies, 131 diagnosed MCMs were identified; 1612 (30%) were exposed to FP or *SERETIDE* of which 42 diagnosed MCMs were identified. The adjusted odds ratio for MCMs diagnosed by 1 year was 1.1 (95%CI: 0.5 – 2.3) for FP exposed so non-FP ICS exposed pregnancies. *SERETIDE* Absolute risks of MCM across the asthma severity strata ranged from 2.0 to 2.9 per 100 FP-exposed pregnancies which is comparable to results from a study of 15,840 pregnancies unexposed to asthma therapies in the General Practice Research Database (2.8 MCM events per 100 preonancies). Research Database (2.8 MCM events per 100 pregnancies). Aechanism of action:-

SERETIDE contains salmeterol and fluticasone propionate which have differing modes of action. Salmeterol protects against symptoms, fluticasone propionate proves lung function and prevents exact plannate the condition. SEREIDE can offer a more convenient regime for patients on concurrent beta-agonist and haled corticosteroid therapy. The respective mechanisms of action of both drugs are discussed below: Salmeterol:-

Sameterol is a selective long-acting (12 hours) beta₂-adrenoceptor agonist with a long side chain which binds to the exo-site of the receptor. These pharmacological properties of salmeterol offer more effective protection against histamine-induced bronchoconstriction and produce a longer duration of bronchodilation, lasting for at least 12 hours, than recommended doses of conventional short-acting beta₂-agonists. n vitro tests have shown salmeterol is a potent and long-lasting inhibitor of the release, from human lung, of mast cell mediators such as histamine, leukotrienes

and prostaglandin D₂. In man salmeterol inhibits the early and late phase response to inhaled allergen; the latter persisting for over 30 hours after a single dose when the bronchodilator effect is no longer evident. Single dosing with salmeterol attenuates bronchial hyper-responsiveness. These properties indicate that salmeterol has additional non-bronchodilator activity but the full clinical significance is not yet clear. This mechanism is different from the anti-inflammatory effect of corticosteroids Fluticasone propionate:-

Fulctasone propionate given by inhalation at recommended doses has a potent glucocorticoid anti-inflammatory action within the lungs, resulting in reduced symptoms and exacerbations of asthma, without the adverse effects observed when corticosteroids are administered systemically. Daily output of adrenocortical hormones usually remain within the normal range during chronic treatment with inhaled fluticasone propionate, even at the highest recommended doses in children and adults. After transfer from other inhaled steroids, the daily output gradually improves despite past and present intermittent use of oral steroids, thus demonstrating return of normal adrenal function on inhaled fluticasone propionate. The adrenal reserve also remains normal during chronic treatment, as measured by a normal increment on a stimulation test. However, any residual impairment of adrenal reserve from previous treatment meru variet for a considerable ine and chould be berne in prind (case Magniaer, and Magniaer reatment may persist for a considerable time and should be borne in mind. (see Warnings and Precauti

Pharmacokinetics There is no evidence in animal or human subjects that the administration of salmeterol and fluticasone propionate together by the inhaled route affects the parmacokinetics of either component. For pharmacokinetic purposes therefore each component can be considered separately.

For pharmacokinetic purposes therefore each component can be considered separately. In a placebo-controlled, crossover drug interaction study in 15 healthy subjects, co-administration of SEREVENT (50 mcg twice daily inhaled) and the CYP3A4 inhibitor ketoconazole (400 mg once daily orally) for 7 days resulted in a significant increase in plasma salmeterol exposure (1.4-fold Cmax and 15-fold AUC). There was no increase in salmeterol accumulation with repeat dosing. Three subjects were withdrawn from SEREVENT and ketoconazole co-administration due to QTc prolongation or palpitations with sinus tachycardia. In the remaining 12 subjects, co-administration of SEREVENT and ketoconazole did not result in a clinically significant effect on heart rate, blood potassium or QTc duration. (see Warnings and Precautions, and Interactions)

Salmeterol acts locally in the lung therefore plasma levels are not an indication of therapeutic effects. In addition there are only limited data available on the parameterior acts locary in the long interfore parameterior and how an indication of decapite effects in addition decentrations at the anomator of neurophysical acts and the anomator of the technical difficulty of assaying the drug in plasma doub due to the low plasma concentrations at the appendix doses (approximately 200 picograms/mL or less) achieved after inhaled dosing. After regular dosing with salmeterol xinafoate, hydroxynaphthoic acid can be detected in the systemic circulation, reaching steady state concentrations of approximately 100 nanograms/mL. These concentrations are up to 1000 fold lower than steady state levels observed in toxicity studies. No detrimental effects have been seen following long-term regular dosing (more than 12 months) in patients with

irway obstruction. An in vitro study showed that salmeterol is extensively metabolised to α-hydroxysalmeterol (aliphatic oxidation) by cytochrome P450 3A4 (CYP3A4). A repeat does study with salmeterol and erythromycin in healthy volunteers showed no clinically significant changes in pharmacodynamic effects at 500 mg three times daily doses of erythromycin. However, a salmeterol-ketoconazole interaction study resulted in a significant increase in plasma salmeterol exposure. (see Warnings and Precautions, and Interactions)

Fluticasone propionate:-The absolute bioavailability of fluticasone propionate for each of the available inhaler devices has been estimated from within and between study comparisons of haled and intravenous pharmacokinetic data. In healthy adult subjects the absolute bioavailability has been estimated for fluticasone propionate Accuhaler/Diskus (7.8%), fluticasone propionate Diskhaler (9.0%), fluticasone propionate Evohaler (10.9%), salmeterol-fluticasone 62000000073962

Version:	2			gsk	
Harmony AMS Artwork Information Panel					
Manufacturing Site Number: 6200000073962					
Manufactur GSK EVRE					
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Smallest Text Size: 7.0pt					
Leading: 7.0pt					
Horizontal Scale: 85%					
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Additional Info (1): N/A					
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IMPORTANT

GSK LOC is responsible to approve the change documentation, artwork brief and final artwork, ensuring that it is accurate, consistent and complete

GSK SDC is responsible for site technical requirements and pre-press suitability.

GSK Market is responsible to advise SDC when changes required impact the following:

Formulation Tablet embossing Storage conditions Shelf Life

NOTE TO MARKET

Local approvers must ensure that trade mark and copyright statements included in the brief comply with guidance provided by Legal: Global Trade Marks.

Q _d	Project: CO-0044917	Document: PPC-3501756	
e-Banner	Site Code: 6200000073962	Operator: VK380608	

BACK



The dose indicator on top of your Accuhaler/Diskus tells you how many doses are left. Numbers 5 to 0 will appear in RED, to warn you when there are only a few doses left.

The Accuhaler/Diskus is easy to use. When you need a dose, just follow the five simple steps illustrated:-

1. Open. 2. Slide.

3. Inhale.

4. Close. 5. Rinse.

How your Accuhaler/Diskus works

Sliding the lever of your Accuhaler/Diskus opens a small hole in the mouthpiece and unwraps a dose, ready for you to inhale it. When you close the Accuhaler/Diskus, the lever automatically moves back to its original position, ready for your next dose when you need it. The outer case protects your Accuhaler/Diskus when it is not in use.



1. Open - How to use the Accuhaler/Diskus. To open your Accuhaler/Diskus, hold the outer case in one hand and put the thumb of your other hand on the thumbgrip. Push your thumb away from you as far as it will go.



Inhale

- Before you start to inhale the dose, read through this section carefully. Hold the Accuhaler/Diskus away from your mouth. Breathe
- out as far as is comfortable. Remember never breathe into your Accuhaler/Diskus.
- Put the mouthpiece to your lips. Breathe in steadily and deeply - through the Accuhaler/Diskus, not through your
- Remove the Accuhaler/Diskus from your mouth. Hold your breath for about 10 seconds, or for as long as is comfortable.
- Breathe out slowly. You may not be able to taste or feel the powder on your tongue, even if you have used the Accuhaler/Diskus

correctly.

REMEMBER Keep your Accuhaler/Diskus dry. Keep it closed when not in use. Never breathe into your Accuhaler/Diskus. Only slide the lever when you are ready to take a dose. Do not exceed the stated dose. Keep out of reach of children. Not all presentations are available in every country. Manufactured by: Glaxo Wellcome Production* Zone Industrielle N°2, 23 Rue Lavoisier 27000 Evreux. France *Member of GSK group of companies Trade marks are owned by or licensed to the GSK group of companies. © 2021 GSK group of companies or its licensor. Version number: GDS37/IPI22

Date of issue: 15 Dec 2020



2. Slide.

Hold your Accuhaler/Diskus with the mouthpiece towards you. Slide the lever away from you, as far as it will go - until it clicks. Your Accuhaler/Diskus is now ready to use. Every time the lever is pushed back, a dose is made available for inhaling. This is shown by the dose counter. Do not play with the lever as this releases doses which will be wasted.



To close your Accuhaler/Diskus, put your thumb in the thumbgrip, and slide the thumborin back towards you, as far as it will go. When you close the Accuhaler/Diskus, it clicks shut. The lever automatically returns to its original position and is reset. Your Accuhaler/Diskus is now ready for you to use again.

5. Rinse Afterwards, rinse your mouth with water and spit it out. If you have been instructed to take two inhalations you must close the Accuhaler/Diskus and repeat stages 1 to 4.

Version: 3

Date/Time Created: 27.Dec.2021 18:18 GMT

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