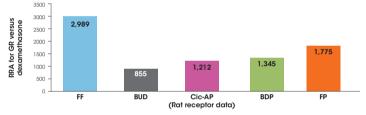
Help your patients gain better asthma control: Relvar's potent ICS (fluticasone furoate [FF]) with a long-lasting anti-inflammatory effect*1,2

What makes FF more superior than other inhaled corticosteroids (ICSs)?

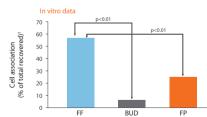
- FF is a potent synthetic corticosteroid with superior glucocorticoid receptor (GR)-binding affinity and specificity^{2,3}
- FF demonstrates the highest described relative GR-binding affinity compared with other ICSs³



BDP, beclomethasone dipropionate; BUD, budesonide; Cic-AP, ciclesonide active principle; FF, fluticasone furoate; FP, fluticasone propionate; GR glucocorticoid receptor; ICS, inhaled corticosteroid; RRA, relative receptor affinity. Adapted from Valotis and Högger (2007).

How would high receptor-binding affinity translate to superior activity observed in human pulmonary tissues?

 FF significantly prolonged retention time in human pulmonary epithelial tissues^{2,4}



BUD, budesonide; FF; fluticasone furcate; FP; fluticasone propionate. Study design: the retention of FF and other ICS in respiratory tissue was investigated using a monolayer of human lung eoithelial (16HBE140) cells. Cell association of ICS at the cell monolayer was determined and quantified as total recovery.

These properties translate to a longer duration of action and less frequent dosing, benefiting patients with asthma.^{2,5}





Help your patients gain better asthma control: Relvar's potent ICS (fluticasone furoate [FF]) with a long-lasting anti-inflammatory effect * 1.2

Reference

1. Woodcock A, et al. Lancet 2017;390:2247-2255. 2. Salter M, et al. Am J Physiol Lung Cell Mol Physiol 2007;293:L660-L667. 3. Valotis A, Högger P. Respir Res 2007;8:54-62. 4. Daley-Yates PT, et al. Br J Clin Pharmacol 2015;80:372-380. 5. Relvar (Fluticasone furoate/vilanterol) Hong Kong Prescribing Information (HK0320186D509v2/EMA201803). 6. Bardsley G, et al. Respir Res 2018;19:133-143. 7. Kharitonov SA, et al. Thorax 2002;57:889-896. 8. Van den Brink KI, et al. Br J Clin Pharmacol 2008;66:27-66.

*Data from the Salford Lung Study in over 4,000 patients. Proportion of Asthma Control Test responders at 6 months for Relvar was 70% vs 56% for other ICS/LABA arms, with an absolute difference of 14%. Study population ≥18 years. The most commonly used ICS/LABAs in the intention-to-treat population were: Fluticasone propionate/salmeterol 30%, budesonide/formoterol 15% and beclomethasone/formoterol 12%

FF, fluticasone furoate; GR, glucocorticoid receptor; ICS, inhaled corticosteroid; LABA, long-acting β-agonist.

†Defined as 20% cortisol suppression dose/maximum 2waily dose as ICS/LABA

¹The anti-inflammatory effect of FF/VI administration measured as change in level of exhaled nitric oxide (FeNO)

§The positive correlation between the pre-treatment levels of FeNO at the end of the treatment period and the speed of its recovery in BUD is only observed in high dose (400 μg/day). Such positive correlation is also lost after cessation of treatment (both doses: 400 μg/day) or 100 μg/day).

Safety Profile of Relvar Ellipta Inhalation Powder, Pre-dispensed 100/25 mcg and 200/25 mcg (100/200 mcg fluticasone furoate and 25 mcg vilanterol)

- · Hypersensitivity to the active substances or to any of the excipients is contraindicated to Relvar
- · Relvar should not be used to treat acute asthma symptoms, for which a short-acting bronchodilator is required
- Relvar should be used with caution in patients with severe cardiovascular disease, pulmonary tuberculosis or in patients with chronic or untreated infections
- Systemic effects may occur with any inhaled corticosteroids, particularly at high doses prescribed for long periods. Possible systemic effects include Cushing's syndrome, Cushingoid features, adrenal suppression, growth retardation in children and adolescents and decrease in bone mineral density
- Patients should not stop therapy with Relvar in asthma without physician supervision.

Adverse effects observed with Relvar in clinical studies and post-marketing		
Frequency Category	Number of Subjects	Adverse reaction(s)
Very common	≥1/10	Headache, nasopharyngitis
Common	≥1/100 to <1/10	Pharyngitis, rhinitis, candidiasis of mouth and throat, pneumonia, arthralgia, pyrexia
Uncommon	≥1/1,000 to <1/100	Extrasystoles
Rare	≥1/10,000 to <1/1,000	Hypersensitivity reactions including anaphylaxis, angioedema, rash, and urticarial, palpitations

ABBREVIATED PRESCRIBING INFORMATION

NAME OF THE PRODUCT RELVAR ELLIPTA QUALITATIVE AND QUANTITIVATIVE COMPOSITION Pre-dispensed dose of 100 mcg or 200mcg of fluticasone furoate and 25 mcg vilanterol (as trifenatate). Inhalation powder. INDICATIONS <u>Asthma</u> Relvar Ellipta 100/25mcg & 200/25mcg is indicated for the regular treatment of asthma in adults and adolescents aged 12 years and older where use of a combination medicinal product (long-acting beta2-agonist and inhaled corticosteroid) is appropriate: • patients not adequately controlled with inhaled corticosteroid and long-acting beta2-agonist DOSAGE AND ADMINISTRATION <u>Asthma</u> Adults and adolescents aged 12 years and over One inhalation of Relvar Ellipta 100/25mcg or 200/25mcg once daily. Patients usually experience an improvement in lung function within 15 minutes of inhaling Relvar Ellipta. A starting dose of Relvar Ellipta 100/25mcg should be considered for adults and adolescents 12 years and over who require a low to mid dose of inhaled corticosteroid in combination with a long-acting beta2-agonist. If patients are inadequately controlled on Relvar Ellipta 100/25mcg, the dose can be increased to Relvar Ellipta 200/25mcg, which may provide additional improvement in asthma control. The maximum recommended dose is Relvar Ellipta 200/25mcg once daily. Children aged under 12 years of age has not yet been established in the indication for asthma. Elderly patients (>66 years) & renal impairment No dose

adjustment, Relvar Ellipta is for inhalation use only. After inhalation, the patient should rinse their mouth with water without swallowing. Patients should be made aware that Relvar Ellipta must be used regularly, even when asymptomatic. Patients should be regularly reassessed by a healthcare professional so that the strength of Relvar Ellipta they are receiving remains optimal and is only changed on medical advice. CONTRAINDICATIONS Hypersensitivity to the active substances or to any of the excipients WARNINGS AND PRECAUTIONS Deterioration of disease Fluticasone furgate/vilanteral should not be used to treat acute asthma symptoms or an acute exacerbation in COPD, for which a short-acting bronchodilator is required. Increasing use of short-acting bronchodilators to relieve symptoms indicates deterioration of control and patients should be reviewed by a physician. Patients should not stop therapy with fluticasone furgate/ vilanterol in asthma or COPD, without physician supervision since symptoms may recur after discontinuation. Asthma-related adverse events and exacerbations may occur during treatment with fluticasone furgate/vilanteral. Patients should be asked to continue treatment but to seek medical advice if asthma symptoms remain uncontrolled or worsen after initiation of treatment with Relvar Ellipta. Paradoxical bronchospasm Paradoxical bronchospasm may occur with an immediate increase in wheezing after dosing. This should be treated immediately with a short-acting inhaled bronchodilator. Relvar Ellipta should be discontinued immediately, the patient assessed and alternative therapy instituted if necessary. Cardiovascular effects Cardiovascular effects, such as cardiac arrhythmias e.a. supraventricular tachycardia and extrasystoles may be seen with sympathomimetic medicinal products including Relyar Ellipta, Therefore fluticasone furoate/vilanterol should be used with caution in patients with severe cardiovascular disease, or heart rhythm abnormalities, thyrotoxicosis, uncorrected hypokalaemia or patients predisposed to low levels of serum potassium. Systemic corticosteroid effects 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. Possible systemic effects include Cushing's syndrome, Cushingoid features, adrenal suppression, decrease in bone mineral density, growth retardation in children and adolescents, cataract and glaucoma and more rarely, a range of psychological or behavioural effects including psychomotor hyperactivity, sleep disorders, anxiety, depression or aggression (particularly in children). Fluticasone furoate/vilanterol should be administered with caution in patients with pulmonary tuberculosis or in patients with chronic or untreated infections. The incidence of pneumonia in patients with asthma was common at the higher dose. The incidence of pneumonia in patients with asthma takina Relvar Ellipta 200/25mcg was numerically higher compared with those receiving Relvar Ellipta 100/25mcg or placebo. No risk factors were identified. INTERACTIONS Interaction with beta-blockers Beta2adrenergic blockers may weaken or antagonise the effect of beta2-adrenergic agonists. Concurrent use of both non-selective and selective beta2-adrenergic blockers should be avoided unless there are compelling reasons for their use. Interaction with CYP3A4 inhibitors Caution is advised when co-administering with strong CYP 3A4 inhibitors as there is potential for increased systemic exposure to both fluticasone furgate and vilanterol. Co-administration should be avoided unless the benefit outweighs the increased risk of systemic corticosteroid side effects, in which case patients should be monitored for systemic corticosteroid side effects PREGNANCY AND LACTATION Pregnancy Administration of fluticasone furoate/vilanterol to pregnant women should only be considered if the expected benefit to the mother is greater than any possible risk to the foetus. Breast-feeding A decision must be made whether to discontinue breast-feeding or to discontinue fluticasone furoate/vilanterol therapy taking into account the benefit of breast-feeding for the child and the benefit of therapy for the woman. ADVERSE REACTIONS Pneumonia, upper respiratory tract infection, bronchitis, influenza, candidiasis of mouth and throat, headache, extrasystoles, nasopharynaitis, oropharynaeal pain, sinusitis, pharynaitis, rhinitis, cough, dysphonia, abdominal pain, arthralaia, back pain, fractures, muscle spasms, pyrexia, OVERDOSE There is no specific treatment for an overdose with fluticasone furgate/vilanteral, If overdose occurs, the patient should be treated supportively with appropriate monitoring as necessary. Further management should be as clinically indicated or as recommended by the national poisons centre, where available.

Abbreviated Prescribing Information based on Relvar Ellipta Hong Kong Prescribing Information HK032018GDS09v2/EMA201803.

The material is for the reference and use by healthcare professionals only.

Please read the full prescribing information prior to administration. Full prescribing information is available on request from GlaxoSmithKline Ltd. For adverse event reporting, please call GlaxoSmithKline Limited at (852) 3189 8989 (Hong Kong) or (853) 2871 5569 (Macau).

RELVAR and ELLIPTA are registered trademarks of the GSK group of companies and are developed in collaboration with INNQVIVA.

Copyright ©2019 GlaxoSmithKline Group of Companies and its licensor.

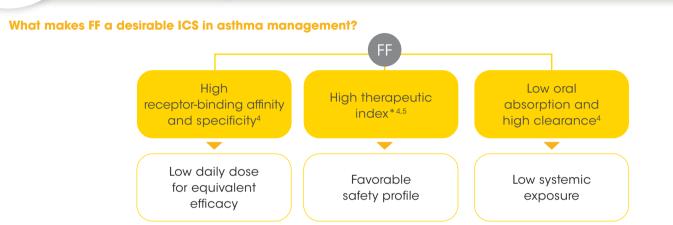


GLAXOSMITHKLINE LIMITED

23/F, THE GATEWAY, TOWER 6, 9 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG TEL: +852 3189 8989 | FAX: +852 3189 8931



Help your patients gain better asthma control: Relvar's potent ICS (fluticasone furoate [FF]) with a long-lasting anti-inflammatory effect * 1,2



FF exhibits a rapid and prolonged anti-inflammatory activity when used in combination with vilanterol (VI)

- FF/VI showed rapid anti-inflammatory activity (within 3 days) in steroid-naive patients \$1.6
- Persistent anti-inflammatory action is maintained up to 18 days after treatment of FF/VI⁶
- FF has a longer duration of action (24 hours) compared with other ICSs, 2.6 especially with budesonide (10 hours). §7.8

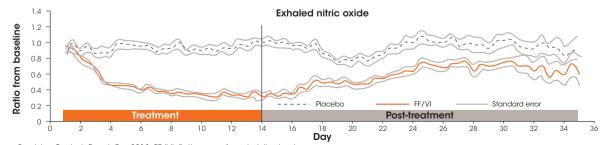


Figure adapted from Bardsley G, et al. Respir Res 2018. FF/VI, fluticasone furoate/vilanterol.