Help your patients gain better asthma control: Relvar's unique long-lasting β2 agonist (vilanterol [VI]) with prolonged bronchodilatory activity* 1

VI - A long-acting $\beta 2$ adrenergic receptor agonist (LABA) with 24-hour activity and a rapid onset of action²

- VI is a potent and highly specific LABA with a longer duration of action compared with formoterol (Form) in cellular assays²
- The duration of action of formoterol was shorter (11–12 hours)³

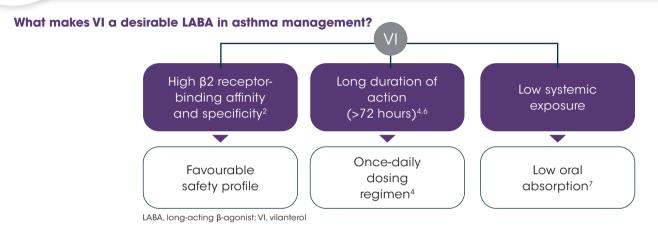
LABA attributes	VI	Form
β2 potency (EC ₅₀) ²	10.4	10.1
β2 versus β1 fold specificity ²	2,400	150 (p<0.0001)
β2 versus β3 fold specificity ²	1,000	59 (p<0.0001)
Intrinsic efficacy (isoprenaline=1 full agonist) ²	0.70	0.95 (p<0.0001)
Duration of action	≥72h ⁴	≈12h ⁷
Dose interval	24h ⁵	12h ⁷
Oral absorption	<2%	≈30%
Onset of action	<15min ^{4,6}	4min ²

 $EC_{so'}$ half maximal effective concentration; Form, formoterol; LABA, long-acting β -agonist; VI, vilanterol



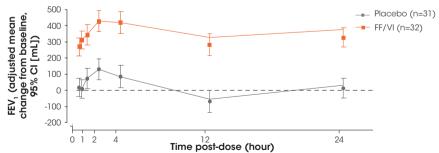


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Together with fluticasone furoate (FF), a single-dose of Relvar prolonged bronchodilation effect that is clinically relevant:

- An increase in FEV, of 200 mL compared with baseline indicates a clinically significant brochodilatory effect⁴
- The bronchodilation activity can be seen at 15 minutes and maintained for 24 hours4



Adapted from Braithwaite I, et al. *Respir Med* 2016. CI, confidence interval; FEV₁, forced expiratory volume in 1 second; FF, fluticasone furoate; VI, vilanterol.



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References

1. Woodcock A, et al. Lancet 2017;390:2247-2255. 2. Slack RJ, et al. J Pharmacol Exp Ther 2013;344:218-230. 3. Wallin A et al. Thorax 1993;48:611-614. 4. Braithwait I, et al. Respir Med 2016;119:115-121.5. Valotis A, Hogger P. Respir Res 2007;8:54-62. 6. Relvar (fluticasone furoate/vilanterol) Hong Kong Prescribing Information (HK032018GDS09v2/EMA201803). 7. SmPC Formoterol Easyhaler, Available at: https://www.medicines.org.uk/emc/product/312/smpc Accessed July 2019.

*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 different of 14%. Study population ≥18 years. The most commonly used ICS/LABAs in the ITT population were: Fluticasone propionate/salmeterol) 30%, budesonide/formoterol 15% and becomethasone/formaterol 12%

[†]Measured by the difference in change of forced expiratory volume in 1 second (FEV1) from baseline. After a single dose, there will be a negligible contribution of FF to bronchodilation [‡]Data based on the use of a single dose of Relvar 100/25 µa in patients with asthma

AR, adrenergic receptor; FEV1, forced expiratory volume in 1 second; FF, fluticasone furoate; ICS, inhaled corticosteroid; ITT, intention-to-treat; LABA, long-acting β-agonist; VI, vilanterol.

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, arowth 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 QUANTITATIVE 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 corticosteroids and long-acting beta2-agonists. • patients already adequately controlled on both inhaled corticosteroid and long-acting beta2-agonist DOSAGE AND ADMINISTRATION Asthma 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 The safety and efficacy of Relvar Ellipta in children under 12 years of age has not yet been established in the indication for asthma. Elderly patients (>65 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 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

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).

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