

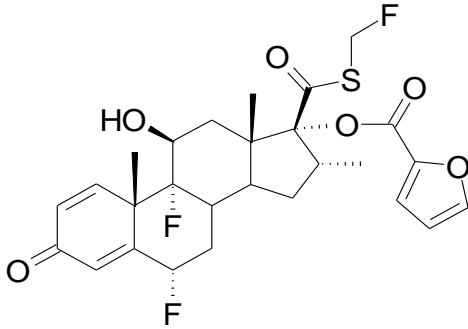
## TRELEGY ELLIPTA 100/62.5/25

### PRODUCT INFORMATION

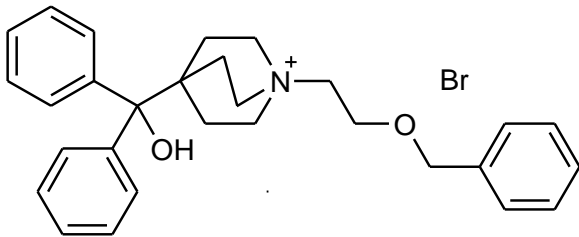
#### NAME OF THE MEDICINE

Fluticasone furoate/umeclidinium (as bromide)/vilanterol (as trifenate)

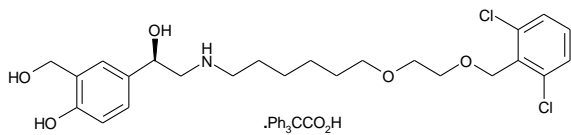
#### Structure of fluticasone furoate



#### Structure of umeclidinium (as bromide)



#### Structure of vilanterol (as trifenate)



#### Chemical Name:

The chemical name of fluticasone furoate is androsta-1,4-diene-17-carbothioic acid, 6,9-difluoro-17-[(2-furanylcarbonyl)oxy]-11-hydroxy-16-methyl-3-oxo-, S-(fluoromethyl) ester, (6 $\alpha$ ,11 $\beta$ ,16 $\alpha$ ,17 $\alpha$ )- (9CI)

The chemical name of umeclidinium (as bromide) is 1-Azoniabicyclo[2.2.2]octane, 4-(hydroxydiphenylmethyl)-1-[2-(phenylmethoxy)ethyl]-, bromide (1:1)

The chemical name of vilanterol (as trifenate) is benzeneacetic acid,  $\alpha,\alpha$ -diphenyl-, compd. with ( $\alpha$ 1R)- $\alpha$ 1-[[[6-[2-[(2,6-dichlorophenyl)methoxy]ethoxy]hexyl]amino]methyl]-4-hydroxy-1,3-benzene dimethanol (1:1)

**Molecular Formula:** Fluticasone furoate:  $C_{27}H_{29}F_3O_6S$   
Umeclidinium (as bromide):  $C_{29}H_{34}BrNO_2$   
Vilanterol (as trifenate):  $C_{24}H_{33}Cl_2NO_5 \cdot C_{20}H_{16}O_2$

**CAS Number:** Fluticasone furoate: 397864-44-7  
Umeclidinium (as bromide): 869113-09-7  
Vilanterol (as trifenate): 503070-58-4

## DESCRIPTION

Fluticasone furoate is practically insoluble or insoluble in water, and slightly soluble in acetone, dimethylsulphoxide and ethanol.

Vilanterol (as trifenate) is practically insoluble or insoluble in water and slightly soluble in methanol, ethanol, acetonitrile and propan-2-ol.

Umeclidinium (as bromide) is slightly soluble in water and slightly soluble in methanol, ethanol, acetonitrile and propan-1-ol.

TRELEGY ELLIPTA is a moulded plastic dry powder inhaler with a light grey body, a beige mouthpiece cover and a dose counter, packed in a foil tray containing a desiccant sachet. The tray is sealed with a peelable foil lid. The inhaler contains two strips of either 14 or 30 regularly distributed blisters, each containing a white powder.

TRELEGY ELLIPTA also contains the excipients, lactose monohydrate (which contains milk protein) and magnesium stearate.

## PHARMACOLOGY

### Mechanism of action

Fluticasone furoate, umeclidinium (as bromide) and vilanterol (as trifenate) represent three classes of medications: a synthetic corticosteroid (presented here as an inhaled corticosteroid [ICS]), a long-acting muscarinic receptor antagonist (also referred to as a LAMA) and a selective, long-acting beta<sub>2</sub>-receptor agonist (also referred to as a LABA), respectively.

### Fluticasone furoate

Fluticasone furoate is a synthetic trifluorinated corticosteroid with potent anti-inflammatory activity. The precise mechanism through which fluticasone furoate affects chronic obstructive pulmonary disease (COPD) symptoms is not known. Corticosteroids have been shown to have a wide range of actions on multiple cell types (e.g. eosinophils, macrophages, lymphocytes) and mediators (e.g. cytokines and chemokines) involved in inflammation.

### Umeclidinium (as bromide)

Umeclidinium (as bromide) is a LAMA. It is a quinuclidine derivative that is a muscarinic receptor antagonist with activity across multiple muscarinic cholinergic receptor subtypes. Umeclidinium exerts its bronchodilatory activity by competitively inhibiting the binding of acetylcholine with muscarinic acetylcholine receptors on airway smooth muscle. It demonstrates slow reversibility at the human M3 muscarinic receptor subtype *in vitro* and a long duration of action *in vivo* when administered directly to the lungs in pre-clinical models.

### Vilanterol (as trifenate)

Vilanterol (as trifenate) is a selective LABA.

The pharmacologic effects of beta<sub>2</sub>-adrenoceptor agonist drugs, including vilanterol (as trifenate), are at least in part attributable to stimulation of intracellular adenylate cyclase, the enzyme that catalyses the conversion of adenosine triphosphate (ATP) to cyclic-3',5'-adenosine monophosphate (cyclic AMP). Increased cyclic AMP levels cause relaxation of bronchial smooth muscle and inhibition of release of mediators of immediate hypersensitivity from cells, especially from mast cells.

## **Pharmacodynamics**

### ***Cardiovascular effects***

The effect of the triple combination of fluticasone furoate/umeclidinium (as bromide)/vilanterol (as trifenate) (hereafter referred to as fluticasone furoate/umeclidinium/vilanterol or FF/UMEC/VI) on the QT interval has not been evaluated in a thorough QT (TQT) study. TQT studies for fluticasone furoate/vilanterol (FF/VI) and umeclidinium/vilanterol (UMEC/VI) did not show clinically relevant effects on QT interval at clinical doses of FF, UMEC and VI (see below).

The effect of umeclidinium/vilanterol on the QT interval was evaluated in a placebo and moxifloxacin controlled QT study involving once daily administration of umeclidinium/vilanterol 125/25 micrograms or 500/100 micrograms for 10 days in 103 healthy volunteers. The maximum mean difference in prolongations of QT interval (corrected using the Fridericia method, QTcF) from placebo after baseline-correction was 4.3 (90% CI=2.2 to 6.4) milliseconds seen 10 minutes after administration with umeclidinium/vilanterol 125/25 micrograms and 8.2 (90% CI=6.2 to 10.2) milliseconds seen 30 minutes after administration with umeclidinium/vilanterol 500/100 micrograms. No clinically relevant effect on prolongation of QT interval (corrected using the Fridericia method) was observed.

In addition, no clinically significant effects of umeclidinium/vilanterol on cardiac rhythm were observed on 24-hour Holter monitoring in 281 patients who received umeclidinium/vilanterol 125/25 micrograms once daily for up to 12 months.

The effect of fluticasone furoate/vilanterol on the QT interval was evaluated in a double-blind, multiple-dose, placebo- and positive-controlled crossover study in 85 healthy volunteers. The maximum mean (95% upper confidence bound) difference in QTcF from placebo after baseline-correction was 4.9 (7.5) milliseconds and 9.6 (12.2) milliseconds seen 30 minutes after dosing with fluticasone furoate/vilanterol 200/25 micrograms and fluticasone furoate/vilanterol 800/100 micrograms, respectively. A dose-dependent increase in heart rate was also observed. The maximum mean (95% upper confidence bound) difference in heart rate from placebo after baseline-correction was

7.8 (9.4) beats/min and 17.1 (18.7) beats/min seen 10 minutes after dosing with fluticasone furoate/vilanterol 200/25 micrograms and fluticasone furoate/vilanterol 800/100 micrograms, respectively.

No clinically relevant effects on the QTc interval were observed on review of centrally-read ECGs from 911 subjects with COPD exposed to fluticasone furoate/umeclidinium/vilanterol for up to 24 weeks, or in the subset of 210 subjects exposed for up to 52 weeks.

## **Pharmacokinetics**

When fluticasone furoate, umeclidinium (as bromide) and vilanterol (as trifenate) were administered in combination by the inhaled route from a single inhaler in healthy subjects, the pharmacokinetics of each component were similar to those observed when each active substance was administered either as fluticasone furoate/vilanterol combination or umeclidinium/vilanterol combination.

Population PK analyses for FF/UMEC/VI were conducted in a subset of 74 COPD subjects from the phase III study. Systemic drug levels of FF, UMEC and VI following FF/UMEC/VI in one inhaler (triple combination) were within the range of those observed following dual combinations (FF/VI and UMEC/VI) as well as individual single inhalers (FF, UMEC and VI).

### ***Absorption***

#### Fluticasone furoate

Following inhaled administration of fluticasone furoate/umeclidinium/vilanterol in healthy subjects, fluticasone furoate  $C_{max}$  occurred at 15 minutes. The absolute bioavailability of fluticasone furoate when administered as fluticasone furoate/vilanterol by inhalation was on average 15.2%, primarily due to absorption of the inhaled portion of the dose delivered to the lung, with negligible contribution from oral absorption. Following repeat dosing of inhaled fluticasone furoate/vilanterol, steady state was achieved within 6 days with up to 1.6-fold accumulation.

#### Umeclidinium (as bromide)

Following inhaled administration of fluticasone furoate/umeclidinium/vilanterol in healthy subjects, umeclidinium  $C_{max}$  occurred at 5 minutes. The absolute bioavailability of inhaled umeclidinium was on average 13%, with negligible contribution from oral absorption. Following repeat dosing of inhaled umeclidinium, steady state was achieved within 7 to 10 days with 1.5 to 2-fold accumulation.

#### Vilanterol (as trifenate)

Following inhaled administration of fluticasone furoate/umeclidinium/vilanterol in healthy subjects, vilanterol  $C_{max}$  occurred at 7 minutes. The absolute bioavailability of inhaled vilanterol was on average 27%, with negligible contribution from oral absorption. Following repeat dosing of inhaled fluticasone furoate/vilanterol, steady state was achieved within 6 days with up to 1.5-fold accumulation.

## ***Distribution***

### Fluticasone furoate

Following intravenous dosing, fluticasone furoate is extensively distributed with an average volume of distribution at steady state of 661 L.

Fluticasone furoate has a low association with red blood cells. *In vitro* plasma protein binding in human plasma of fluticasone furoate was high, on average >99.6%. There was no decrease in the extent of *in vitro* plasma protein binding in subjects with renal or hepatic impairment.

Fluticasone furoate is a substrate for P-glycoprotein (P-gp), however, concomitant administration of fluticasone furoate with P-gp inhibitors is considered unlikely to alter fluticasone furoate systemic exposure. Clinical pharmacology studies with selective P-gp inhibitors and fluticasone furoate have not been conducted.

### Umeclidinium (as bromide)

Following intravenous administration to healthy subjects, the mean volume of distribution was 86 L. *In vitro* plasma protein binding in human plasma was on average 89%.

### Vilanterol (as trifenate)

Following intravenous administration to healthy volunteers, the mean volume of distribution at steady state was 165 L. *In vitro* plasma protein binding in human plasma was on average 94%.

## ***Metabolism***

### Fluticasone furoate

Based on *in vitro* data, the major routes of metabolism of fluticasone furoate in humans are mediated primarily by CYP3A4.

Fluticasone furoate is primarily metabolised through hydrolysis of the S-fluoromethyl carbothioate group to metabolites with significantly reduced corticosteroid activity.

A repeat-dose CYP3A4 drug interaction study was performed in healthy subjects with the fluticasone furoate/vilanterol combination (200/25 micrograms) and the strong CYP3A4 inhibitor ketoconazole (400 milligrams). Co-administration increased mean fluticasone furoate AUC<sub>(0-24)</sub> and C<sub>max</sub> by 36% and 33%, respectively. The increase in fluticasone furoate exposure was associated with a 27% reduction in 0-24 hour weighted mean serum cortisol.

### Umeclidinium (as bromide)

*In vitro* studies showed that umeclidinium is metabolised principally by the enzyme P450 CYP2D6 and is a substrate for the P-gp transporter. The primary metabolic routes for umeclidinium are oxidative (hydroxylation, O-dealkylation) followed by conjugation (glucuronidation, etc), resulting in a range of metabolites with either reduced pharmacological activity or for which the pharmacological activity has not been established. Systemic exposure to the metabolites is low.

### Vilanterol (as trifenate)

*In vitro* studies showed that vilanterol is metabolised principally via CYP3A4 and is a substrate for the P-gp transporter. The primary metabolic routes are O-dealkylation to a range of metabolites with significantly reduced beta<sub>1</sub>- and beta<sub>2</sub>- agonist activity. Plasma metabolic profiles following oral administration of vilanterol in a human radiolabel study were consistent with high first-pass metabolism. Systemic exposure to the metabolites is low.

### **Excretion**

#### Fluticasone furoate

Following intravenous administration, the elimination phase half-life averaged 15.1 hours. Plasma clearance following intravenous administration was 65.4 L/hour. Urinary excretion accounted for approximately 2% of the intravenously administered dose.

Following oral administration, fluticasone furoate was eliminated in humans mainly by metabolism with metabolites being excreted almost exclusively in faeces. Less than 1% of the recovered radioactive dose was eliminated in the urine. The apparent plasma elimination half-life following inhaled administration of fluticasone furoate was, on average, 24 hours.

#### Umeclidinium (as bromide)

Plasma clearance following intravenous administration was 151 L/hour. Following intravenous administration, approximately 58% of the administered radiolabelled dose (or 73% of the recovered radioactivity) was excreted in faeces by 192 hours post-dose. Urinary elimination accounted for 22% of the administered radiolabelled dose by 168 hours (27% of recovered radioactivity). The excretion of the drug-related material in the faeces following intravenous dosing indicated secretion into the bile. Following oral administration to healthy male subjects, total radioactivity was excreted primarily in faeces (92% of the administered radiolabelled dose or 99% of the recovered radioactivity) by 168 hours post-dose. Less than 1% of the orally administered dose (1% of recovered radioactivity) was excreted in urine, suggesting negligible absorption following oral administration. Umeclidinium plasma elimination half-life following inhaled dosing for 10 days averaged 19 hours, with 3% to 4% drug excreted unchanged in urine at steady-state.

### Vilanterol (as trifenate)

Plasma clearance of vilanterol following intravenous administration was 108 L/hour. Following oral administration of radiolabelled vilanterol, mass balance showed 70% of the radiolabel in urine and 30% in faeces. Primary elimination of vilanterol was by metabolism followed by excretion of metabolites in urine and faeces. Vilanterol plasma elimination half-life following inhaled dosing for 10 days averaged 11 hours.

## **Special patient populations**

### **Race**

In subjects with COPD, estimates of fluticasone furoate AUC<sub>(0-24)</sub> for East Asian, Japanese and South East Asian subjects (13-14% subjects) were on average 23% to 30% higher compared with Caucasian subjects. However, there was no evidence for the higher systemic exposure in this population to be associated with greater effect on 24-hour

urinary cortisol excretion. There was no effect of race on pharmacokinetics of umeclidinium or vilanterol in subjects with COPD.

### ***Elderly***

Fluticasone furoate/umeclidinium/vilanterol has not been evaluated in elderly subjects. However, such studies have been conducted with fluticasone furoate/vilanterol and umeclidinium/vilanterol.

In studies with fluticasone furoate/vilanterol, there was no evidence for age to affect the PK of fluticasone furoate in subjects with COPD while there was an increase (37%) in AUC<sub>(0-24)</sub> of vilanterol over the observed age range of 41 to 84 years. For an elderly subject (aged 84 years) with low bodyweight (35 kg), vilanterol AUC<sub>(0-24)</sub> is predicted to be 35% higher than the population estimate (subject with COPD aged 60 years and bodyweight of 70 kg), whilst C<sub>max</sub> is predicted to be unchanged. These differences are unlikely to be of clinical relevance.

A population pharmacokinetic analysis of COPD patients treated with umeclidinium/vilanterol showed that pharmacokinetics of umeclidinium and vilanterol were similar between COPD patients 65 years and older and those younger than 65 years of age.

### ***Renal impairment***

Fluticasone furoate/umeclidinium/vilanterol has not been evaluated in subjects with renal impairment. However, such studies have been conducted with fluticasone furoate/vilanterol and umeclidinium/vilanterol.

A clinical pharmacology study of fluticasone furoate/vilanterol showed that severe renal impairment (creatinine clearance <30 mL/min) did not result in significantly greater exposure to fluticasone furoate or vilanterol or more marked corticosteroid or beta<sub>2</sub>-agonist systemic effects compared with healthy subjects.

A study in subjects with severe renal impairment administered with umeclidinium/vilanterol showed no evidence of an increase in systemic exposure to either umeclidinium or vilanterol (C<sub>max</sub> and AUC). *In vitro* protein binding studies between subjects with severe renal impairment and healthy volunteers were conducted, and no clinically significant evidence of altered protein binding was seen.

The effects of haemodialysis have not been studied.

### ***Hepatic impairment***

Fluticasone furoate/umeclidinium/vilanterol has not been evaluated in subjects with hepatic impairment. However, such studies have been conducted with fluticasone furoate/vilanterol and umeclidinium/vilanterol.

Following repeat dosing of fluticasone furoate/vilanterol for 7 days, there was an increase in fluticasone furoate systemic exposure (up to three-fold as measured by AUC<sub>(0-24)</sub>) in subjects with hepatic impairment (Child-Pugh A, B or C) compared with healthy subjects. The increase in fluticasone furoate systemic exposure in subjects with moderate hepatic impairment (Child-Pugh B) following repeat-dose administration (fluticasone furoate/vilanterol 200/25 micrograms) was associated with an average 34% reduction in serum cortisol compared with healthy subjects. In subjects with severe hepatic impairment (Child-Pugh C) that received fluticasone furoate/vilanterol

100/12.5 micrograms, there was no reduction in serum cortisol (10% increase in serum cortisol).

Following repeat dosing of fluticasone furoate/vilanterol for 7 days, there was no significant increase in systemic exposure to vilanterol ( $C_{max}$  and AUC) in subjects with mild, moderate, or severe hepatic impairment (Child-Pugh A, B or C).

There were no clinically relevant effects of the fluticasone furoate/vilanterol combination on beta-adrenergic systemic effects (heart rate or serum potassium) in subjects with mild or moderate hepatic impairment (vilanterol, 25 micrograms) or with severe hepatic impairment (vilanterol, 12.5 micrograms) compared with healthy subjects.

Subjects with moderate hepatic impairment showed no evidence of an increase in systemic exposure to either umeclidinium or vilanterol ( $C_{max}$  and AUC), and no evidence of altered protein binding by umeclidinium or decreased protein binding by vilanterol between subjects with moderate hepatic impairment and healthy volunteers was observed *in vitro*.

Umeclidinium has not been evaluated in subjects with severe hepatic impairment.

### **Other patient characteristics**

Population pharmacokinetic analyses in COPD subjects treated with fluticasone furoate/vilanterol or umeclidinium/vilanterol showed that no dose adjustment is required for fluticasone furoate, umeclidinium or vilanterol based on the effect of gender, weight or body mass index. In terms of other patient characteristics, a study in CYP2D6-poor metabolisers showed no evidence of a clinically significant effect of CYP2D6 genetic polymorphism on systemic exposure to umeclidinium.

## **CLINICAL TRIALS**

### **Fluticasone furoate/umeclidinium /vilanterol clinical studies**

The efficacy of fluticasone furoate/umeclidinium/vilanterol (FF/UMEC/VI 100/62.5/25 micrograms) administered as a once-daily treatment in patients with a clinical diagnosis of COPD has been evaluated in one 24-week active-controlled study (compared to budesonide/formoterol [BUD/FOR]) with an extension up to 52 weeks in a subset of subjects (Study CTT116853).

All patients were required to have a smoking history of at least 10 pack years; a post-salbutamol FEV<sub>1</sub>/ FVC ratio <0.70; a clinical diagnosis of COPD, and a post-bronchodilator FEV<sub>1</sub> of <50% predicted normal or a post-bronchodilator FEV<sub>1</sub> <80% predicted normal and a history of ≥2 moderate exacerbations or one severe (hospitalised) exacerbation in the previous 12 months at screening. At screening, the mean post-bronchodilator FEV<sub>1</sub> was 45.5% predicted, and the mean reversibility was 8.17%. Around 55% of patients had a history of ≥2 moderate or ≥1 severe COPD exacerbation in the 12 months previous to screening.

FF/UMEC/VI 100/62.5/25 micrograms administered once daily demonstrated a statistically significant improvement in lung function (as defined by change from baseline trough FEV<sub>1</sub> at Week 24; co-primary endpoint) compared with BUD/FOR) 400/12 micrograms administered twice-daily (see Table 1).

FF/UMEC/VI demonstrated a statistically significant improvement compared to BUD/FOR at Week 24 for Health Related Quality of Life (HRQoL) measured by the St George's Respiratory Questionnaire (SGRQ) total score (co-primary endpoint), SGRQ responder



analysis, and also for respiratory symptoms measured using the Evaluating Respiratory Symptoms in COPD (E-RS™: COPD) score and sub-scale scores over Weeks 21-24, and breathlessness measured using the Transitional Dyspnoea Index (TDI) focal score at Week 24 (see Table 1).

FF/UMEC/VI demonstrated a statistically significant reduction in the annual rate of moderate/severe exacerbations (i.e. requiring treatment with antibiotics or corticosteroids or hospitalisation; extrapolated from data up to Week 24) compared with BUD/FOR (see Table 1).

**Table 1 Key efficacy endpoints up to Week 24 (Study CTT116853)**

Study CTT116853	FF/UMEC/VI 100/62.5/25 mcg OD (n=911)	BUD/FOR 400/12 mcg BID (n=899)	Comparison with BUD/FOR	
			Treatment Difference (95% CI) p-value	Treatment Ratio (95% CI) p-value
<b>Primary endpoints</b>				
Trough FEV1 (L) at Week 24, LS mean change from baseline (SE) <sup>a, e</sup>	0.142 (0.0083)	-0.029 (0.0085)	0.171 (0.148, 0.194) p<0.001	-
SGRQ Total Score at Week 24, LS mean change from baseline (SE) <sup>a, f</sup>	-6.6 (0.45)	-4.3 (0.46)	-2.2 (-3.5, -1.0) p<0.001	-
<b>Secondary endpoints</b>				
Annual rate of on-treatment moderate/severe COPD exacerbation (based on data up to Week 24)	0.22	0.34	-	0.65 <sup>c</sup> (0.49, 0.86) p=0.002
Incidence of moderate/severe COPD exacerbation up to Week 24	10%	14%	-	0.67 <sup>d</sup> (0.52, 0.88) p=0.004
E-RS: COPD Total Score during Weeks 21-24, LS mean change from baseline (SE) <sup>g</sup>	-2.31 (0.157)	-0.96 (0.160)	-1.35 (-1.79, -0.91) p<0.001	-
TDI focal score at Week 24, LS mean (SE) <sup>f</sup>	2.29 (0.096)	1.72 (0.099)	0.57 (0.30, 0.84) p<0.001	-
Daily activity percentage of days with score of 2 (able to perform more activities than usual) over Weeks 1-24, LS mean change from baseline (SE)	0.0 (0.38)	-0.1 (0.39)	0.1 (-0.9, 1.1) p=0.817	-
Mean number of occasions of rescue medication use per day over Weeks 1-24, LS mean change from baseline (SE)	-0.1 (0.04)	0.1 (0.04)	-0.2 (-0.3, -0.1) p<0.001	-
CAT Score at Week 24, LS mean change from baseline (SE) <sup>f</sup>	-2.5 (0.18)	-1.6 (0.19)	-0.9 (-1.4, -0.4) p<0.001	-

Study CTT116853	FF/UMEC/VI 100/62.5/25 mcg OD (n=911)	BUD/FOR 400/12 mcg BID (n=899)	Comparison with BUD/FOR	
			Treatment Difference (95% CI) p-value	Treatment Ratio (95% CI) p-value
Responders according to SGRQ Total Score at Week 24 <sup>f, h</sup>	50%	41%	-	1.41 <sup>b</sup> (1.16, 1.70) p<0.001
<p><sup>a</sup> Co-primary endpoints</p> <p><sup>b</sup> Odds ratio. <sup>c</sup> Rate ratio. <sup>d</sup> Hazard ratio based on analysis of time to first event</p> <p><sup>e</sup> Statistically significant treatment difference for FF/UMEC/VI vs. BUD/FOR also observed at Weeks 2, 4 and 12</p> <p><sup>f</sup> Statistically significant treatment difference for FF/UMEC/VI vs. BUD/FOR also observed at Week 4</p> <p><sup>g</sup> Statistically significant treatment difference for FF/UMEC/VI vs. BUD/FOR also observed over each 4-weekly period during the study duration</p> <p><sup>h</sup> Response was defined as a ≥4 unit decrease from baseline for SGRQ, a ≥2 unit decrease from baseline for E-RS total score and for CAT and a ≥1 unit score for TDI</p> <p>Abbreviations: BID=twice daily; BUD=budesonide; FOR=formoterol; CI= confidence interval; FEV<sub>1</sub>= forced expiratory volume in 1 second; L= litres; LS= least squared; mcg= micrograms; n= number in the intent-to-treat population; OD= once daily; SD= standard deviation; SE=standard error; SGRQ=St George's Respiratory Questionnaire; CAT=COPD Assessment Test; E-RS=Evaluating Respiratory Symptoms; TDI= Transitional Dyspnoea Index.</p>				

The lung function, HRQoL, symptoms and exacerbations outcomes up to 52 weeks of treatment in a subset of patients (n = 430) were consistent with the results up to 24 weeks.

### **Supporting efficacy studies**

#### Umeclidinium with fluticasone furoate/vilanterol

In two 12-week, placebo controlled studies (200109 and 200110), the addition of umeclidinium (62.5 micrograms) to fluticasone furoate/vilanterol (FF/VI) (100/25 micrograms) once daily in adult patients with a clinical diagnosis of COPD, resulted in statistically significant and clinically meaningful improvements in the primary endpoint of trough FEV<sub>1</sub> at Day 85 compared to placebo plus FF/VI (124 mL [95% CI: 93, 154, p<0.001] in Study 200109 and 122 mL [95% CI: 91, 152, p<0.001] in Study 200110).

### **INDICATIONS**

TRELEGY ELLIPTA is indicated for the maintenance treatment of adults with moderate to severe COPD who require treatment with LAMA+LABA+ICS.

TRELEGY ELLIPTA is not indicated for the initiation of therapy in COPD.

### **CONTRAINDICATIONS**

TRELEGY ELLIPTA is contraindicated in patients with severe milk-protein allergy or who have demonstrated hypersensitivity to fluticasone furoate, umeclidinium, vilanterol or any of the excipients.

## **PRECAUTIONS**

### COPD

Treatment of COPD should be in accordance with relevant clinical guidelines. Patients should have a personal action plan designed in association with their treating physician.

### Asthma

TRELEGY ELLIPTA should not be used in patients with asthma since it has not been studied in this population.

### Pneumonia

Physicians should remain vigilant for the possible development of pneumonia in patients with COPD, as the clinical features of such infections overlap with the symptoms of COPD exacerbations. In line with the known class effect of inhaled corticosteroids, pneumonia events (including pneumonias resulting in hospitalisation) were observed in patients with COPD receiving fluticasone furoate/umeclidinium/vilanterol. In some instances, fatal events of pneumonia have been reported with use of inhaled corticosteroid (fluticasone furoate)-containing drugs (see *Adverse Effects*). Risk factors for pneumonia in patients with COPD receiving inhaled corticosteroid-containing drugs include current smoking status, history of pneumonia, low body mass index and severe COPD. These factors should be considered when TRELEGY ELLIPTA is prescribed, and treatment re-evaluated if pneumonia occurs.

### Exacerbations

TRELEGY ELLIPTA is intended for the maintenance treatment of COPD. It should not be used for the relief of acute symptoms, i.e. as rescue therapy for the treatment of acute episodes of bronchospasm. Acute symptoms should be treated with an inhaled short-acting bronchodilator.

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 TRELEGY ELLIPTA without physician supervision since symptoms may recur after discontinuation.

### Paradoxical bronchospasm

As with other inhalation therapy, paradoxical bronchospasm may occur with an immediate increase in wheezing after dosing, and may be life-threatening. Treatment with TRELEGY ELLIPTA should be discontinued immediately, the patient assessed and alternative therapy instituted if necessary.

### Cardiovascular effects

Cardiovascular effects, such as cardiac arrhythmias e.g. atrial fibrillation and tachycardia, may be seen after the administration of muscarinic receptor antagonists or sympathomimetic agents, including umeclidinium or vilanterol, respectively. Therefore TRELEGY ELLIPTA should be used with caution in patients with unstable or life-threatening cardiovascular disease.

### Patients with hepatic impairment

Patients with moderate to severe hepatic impairment receiving TRELEGY ELLIPTA should be monitored for systemic corticosteroid-related adverse reactions (see *Pharmacokinetics – Special Patient Populations*).

### 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, cataract and glaucoma and more rarely, a range of psychological or behavioural effects including psychomotor hyperactivity, sleep disorders, anxiety, depression or aggression.

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

### Antimuscarinic activity

Consistent with its antimuscarinic activity, TRELEGY ELLIPTA should be used with caution in patients with narrow-angle glaucoma or urinary retention. Prescribers and patients should be alert for signs and symptoms of acute narrow-angle glaucoma (e.g. eye pain or discomfort, blurred vision, visual halos or coloured images in association with red eyes from conjunctival congestion and corneal oedema). Instruct patients to consult a healthcare provider immediately if any of these signs or symptoms develops.

### **Effects on Fertility:**

There are no data on the effects of TRELEGY ELLIPTA on human fertility. Studies in rats showed no effect of fluticasone furoate, umeclidinium or vilanterol on male or female fertility at doses of the individual agents producing large or very large multiples of the systemic exposure in humans.

### **Use in Pregnancy (Category B3):**

There are insufficient data from the use of fluticasone furoate/umeclidinium/vilanterol in pregnant women. Corticosteroids and beta<sub>2</sub>-agonists have been shown to be teratogenic in laboratory animals when administered systemically at relatively low dosage levels.

Fluticasone furoate was not teratogenic in studies by the inhalational route in rats and rabbits, but it caused decreased fetal weight and impaired ossification in rats (at 91 µg/kg/day) and abortion in rabbits (at doses of 47 µg/kg/day and greater), occurring in conjunction with maternotoxicity. There were no adverse effects on embryofetal development in rats at 23 µg/kg/day, yielding systemic exposure approximately 8-fold the human clinical exposure at 100 µg fluticasone furoate based on AUC, and there were no developmental effects in a prenatal and postnatal study in rats (at doses up to 27 µg/kg/day).

Embryofetal development was unaffected by umeclidinium in rats treated at up to 278 µg/kg/day by inhalation (estimated to yield almost 50-fold the human clinical exposure at 62.5 µg per day) and in rabbits treated at up to 306 µg/kg/day by inhalation or up to 180 µg/kg/day subcutaneously (yielding approximately 32- and 180-fold the plasma AUC in patients). In a pre- and post-natal study, subcutaneous administration of umeclidinium

to rats resulted in lower maternal body weight gain and food consumption and slightly decreased pre-weaning pup body weights in dams given 180 µg/kg/day (equivalent to approximately 73-fold the human clinical exposure at 62.5 µg umeclidinium, based on AUC).

In rabbits, there was evidence of maternal toxicity and embryotoxicity following inhalation exposure to vilanterol (as trifenate) at 591 and 62.7 µg/kg/day, respectively (equivalent to 64- and 6-fold the clinical exposure at 25 µg/day vilanterol, based on AUC). A non-dose related increase in malformations, including the rare open eyelid, was also observed. In a separate study with subcutaneous exposure, increased incidence of open eye and increase in skeletal variations (indicative of developmental delay) occurred at 300 µg/kg/day (equivalent to approximately 460-fold the clinical exposure at 25 µg/day vilanterol based on AUC) with a NOAEL of 30 µg/kg/day (equivalent to 34-fold the clinical exposure at 25 µg/day vilanterol based on AUC). Vilanterol had no adverse effect on pre- or post-natal development in rats.

TRELEGY ELLIPTA should be used during pregnancy only if the expected benefit justifies the potential risk to the fetus.

#### **Use in Lactation:**

It is unknown whether fluticasone furoate, umeclidinium, vilanterol or their metabolites are excreted in human milk. However, other corticosteroids, muscarinic antagonists and beta<sub>2</sub>-agonists are detected in human milk. A risk to breast-fed newborns/infants cannot be excluded.

A decision must be made whether to discontinue breast-feeding or to discontinue TRELEGY ELLIPTA therapy taking into account the benefit of breast-feeding for the child and the benefit of therapy for the woman.

#### **Paediatric Use:**

TRELEGY ELLIPTA should not be used in children.

#### **Use in the Elderly:**

There are no special precautions for use in the elderly.

#### **Genotoxicity:**

Fluticasone furoate was not genotoxic in a standard battery of studies, comprising bacterial mutation (Ames) assays, mouse lymphoma assay and rat bone marrow micronucleus tests.

Umeclidinium was not genotoxic in a standard battery of studies, comprising bacterial mutation assays, the mouse lymphoma tk assay and the rat bone marrow micronucleus test.

Vilanterol was negative in a complete battery of *in vitro* (Ames, UDS, SHE cell) assays and *in vivo* (rat bone marrow micronucleus) assays and equivocal in the mouse lymphoma assay. The weight of evidence suggests that vilanterol does not pose a genotoxic risk.

#### **Carcinogenicity:**

No carcinogenicity studies were performed with the fluticasone furoate/umeclidinium/vilanterol combination.

Fluticasone furoate was not carcinogenic in lifetime inhalation studies in rats or mice at exposures 2 or 3.5 times higher, respectively, than in humans at 100 µg/day, based on AUC.

Umeclidinium was not carcinogenic in 2-year inhalation studies in mice or rats at doses yielding systemic exposure levels (plasma AUC) up to 24- or 20-fold the human clinical exposure of umeclidinium at the maximum recommended dose of 62.5 µg/day in the respective species.

Proliferative effects in the female rat and mouse reproductive tract and rat pituitary gland were observed in lifetime inhalation studies with vilanterol, consistent with findings for other beta<sub>2</sub>-agonists. There was no increase in tumour incidence in rats or mice at exposures 0.5 or 12-fold, respectively, those at the maximum recommended human dose, based on AUC. These findings are not considered to indicate that vilanterol poses a carcinogenic hazard to patients.

### **Effect on Laboratory Tests:**

Interactions with laboratory tests have not been established.

### **Ability to perform tasks that require Judgement, Motor or Cognitive Skills:**

There have been no studies to investigate the effect of fluticasone furoate/umeclidinium/vilanterol on the ability to perform tasks that require judgement, motor or cognitive skills.

A detrimental effect on such activities would not be anticipated from the pharmacology of fluticasone furoate, umeclidinium (as bromide) or vilanterol (as trifenate) at clinical doses.

## **INTERACTIONS WITH OTHER MEDICINES**

Clinically significant drug interactions mediated by fluticasone furoate, umeclidinium (as bromide) or vilanterol (as trifenate) at clinical doses are considered unlikely due to the low plasma concentrations achieved after inhaled dosing.

### **Interaction with beta-blockers**

Beta-adrenergic blockers may weaken or antagonise the effect of beta<sub>2</sub>-adrenergic agonists, such as vilanterol. Concurrent use of both non-selective and selective beta-blockers should be avoided unless there are compelling reasons for their use.

### **Interaction with CYP3A4 inhibitors**

Fluticasone furoate and vilanterol are both rapidly cleared by extensive first-pass metabolism mediated by the liver enzyme CYP3A4.

Care is advised when co-administering with strong CYP3A4 inhibitors (e.g. ketoconazole, ritonavir) as there will be increased systemic exposure to both fluticasone furoate and vilanterol, which could lead to an increase in the potential for adverse reactions (see *Pharmacokinetics*).

### **Interaction with P-glycoprotein inhibitors**

A repeat-dose study was performed in healthy subjects with the fluticasone furoate/vilanterol combination (200/25 micrograms) and ketoconazole (400 milligrams, a strong CYP3A4 inhibitor and P-gp inhibitor). Co-administration increased mean fluticasone furoate  $AUC_{(0-24)}$  and  $C_{max}$  by 36% and 33%, respectively. The increase in fluticasone furoate exposure was associated with a 27% reduction in 0-24 hours weighted mean serum cortisol. Co-administration increased mean vilanterol  $AUC_{(0-t)}$  and  $C_{max}$  by 65% and 22%, respectively. The increase in vilanterol exposure was not associated with an increase in beta-agonist related systemic effects on heart rate or blood potassium.

Fluticasone furoate, umeclidinium and vilanterol are substrates of P-gp. A repeat dose drug interaction study performed in healthy subjects who were administered with umeclidinium/vilanterol or umeclidinium, and the P-gp and moderate CYP3A4 inhibitor verapamil (240 milligrams), did not show any clinically significant effect on the pharmacokinetics of vilanterol or umeclidinium.

### **Interaction with CYP2D6 inhibitors**

Umeclidinium is a substrate of CYP2D6. The effect of a CYP2D6-poor metaboliser genotype on the steady-state pharmacokinetics of umeclidinium was assessed in healthy volunteers (CYP2D6 normal metabolisers and CYP2D6 poor metabolisers). No clinically meaningful difference in systemic exposure to umeclidinium (500 micrograms) was observed following repeat daily inhaled dosing to normal and CYP2D6-poor metaboliser subjects.

### **Interaction with sympathomimetic medicinal products**

Concomitant administration of other sympathomimetic agents (alone or as part of combination therapy) may potentiate the undesirable effects of TRELEGY ELLIPTA. TRELEGY ELLIPTA should not be used in conjunction with other LABAs or medicinal products containing LABAs.

### **Interaction with monoamine oxidase inhibitors and tricyclic antidepressants**

Vilanterol, like other beta<sub>2</sub>-agonists, should be administered with extreme caution to patients being treated with monoamine oxidase inhibitors, tricyclic antidepressants, or drugs known to prolong the QTc interval because the effect of adrenergic agonists on the cardiovascular system may be potentiated by these agents. Drugs that are known to prolong the QTc interval have an increased risk of ventricular arrhythmias.

### **Other LAMAs and LABAs**

Co-administration of TRELEGY ELLIPTA with other LAMAs or LABAs has not been studied and is not recommended as it may potentiate the adverse reactions (see *Adverse Effects and Overdosage*).

## **ADVERSE EFFECTS**

### **Clinical trial data**

The safety profile of TRELEGY ELLIPTA (fluticasone furoate/umeclidinium/vilanterol) is based on data from 911 patients with COPD who received doses of fluticasone furoate/umeclidinium/vilanterol 100/62.5/25 micrograms once daily for up to 24 weeks, of whom 210 patients received fluticasone furoate/umeclidinium/vilanterol

100/62.5/25 micrograms once daily for up to 52 weeks, during a phase III clinical study with an active comparator, budesonide/formoterol 400/12 micrograms twice daily (Study CTT116853). Adverse events following 24 weeks of treatment are presented in Table 2. This trial had no placebo treatment group.

**Table 2. Adverse Events with ≥1% Incidence with TRELEGY ELLIPTA following 24 Weeks of Treatment**

Adverse Event (Preferred Term)	Number (%) of Subjects	
	FF/UMEC/VI 100/62.5/25 mcg OD (n = 911)	BUD/FOR 400/12 mcg BD (n = 899)
Infections and Infestations		
Nasopharyngitis	64 (7)	43 (5)
Upper respiratory tract infection	20 (2)	19 (2)
Pneumonia	19 (2)	7 (<1)
Pharyngitis	15 (2)	9 (1)
Rhinitis	10 (1)	11 (1)
Influenza	10 (1)	8 (<1)
Nervous system disorders		
Headache	44 (5)	53 (6)
Musculoskeletal and connective tissue disorders		
Back pain	19 (2)	18 (2)
Arthralgia	17 (2)	13 (1)
Respiratory, thoracic, and mediastinal disorders		
Chronic obstructive pulmonary disease	15 (2)	23 (3)
Cough	10 (1)	10 (1)

BD = twice daily; BUD = budesonide; FOR = formoterol; OD = once daily;  
FF/UMEC/VI = fluticasone furoate/umeclidinium/vilanterol (Trelegy)

In a subset of subjects, in addition to adverse events reported in Table 2, adverse events occurring at a rate of greater than or equal to 1% in subjects receiving fluticasone furoate/umeclidinium/vilanterol for up to 52 weeks (n = 210) were viral respiratory tract infection, oropharyngeal pain and hypertension.

Adverse reactions are listed below by MedDRA system organ class and by frequency. The following convention has been used for the classification of adverse reactions:

Very common: ≥1/10  
Common: ≥1/100 to <1/10  
Uncommon: ≥1/1000 to <1/100  
Rare ≥1/10000 to <1/1000  
Very rare <1/10000



System organ class	Adverse reaction(s)	Frequency
Infections and infestations	Pneumonia Upper Respiratory Tract Infection Pharyngitis Rhinitis Influenza Nasopharyngitis	Common
	Candidiasis of mouth and throat Viral Respiratory Tract Infection	Uncommon
Nervous system disorders	Headache	Common
Cardiac disorders	Supraventricular tachyarrhythmia Tachycardia Atrial fibrillation	Uncommon
Respiratory, thoracic & mediastinal disorders	Cough	Common
	Oropharyngeal pain	Uncommon
Musculoskeletal and connective tissue disorders	Arthralgia Back pain	Common
	Fractures	Uncommon

### Description of selected adverse reactions

#### Pneumonia (see Precautions)

In Study CTT116853 which had a total of 1810 patients with COPD FEV<sub>1</sub> 45% of predicted (SD 13%) (mean post bronchodilation), 65% of whom had experienced a moderate/severe COPD exacerbation in the year prior to study entry, there was a higher incidence of pneumonia events reported up to 24 weeks in patients receiving fluticasone furoate/umeclidinium/vilanterol (20 patients, 2%) than in patients receiving budesonide/formoterol (7 patients, <1%). Pneumonia which required hospitalisation occurred in 1% of patients receiving fluticasone furoate/umeclidinium/vilanterol and <1% of patients receiving budesonide/formoterol up to 24 weeks. One fatal case of pneumonia was reported in a patient who received fluticasone furoate/umeclidinium/vilanterol, however this was not considered to be related to the study treatment. However, in the subset of 430 subjects treated for up to 52 weeks, the incidence of pneumonia events reported in both fluticasone furoate/umeclidinium/vilanterol and budesonide/formoterol arms was equal at 2%.

### DOSAGE AND ADMINISTRATION

TRELEGY ELLIPTA is for oral inhalation only. After inhalation, the patient should rinse their mouth with water without swallowing.

Patients can be changed from their existing inhalers to TRELEGY ELLIPTA at the next dose. **However it is important that patients do not take other LABA or LAMA or ICS while taking TRELEGY ELLIPTA.**

A stepwise approach to the management of COPD is recommended, including the cessation of smoking and a pulmonary rehabilitation program. TRELEGY ELLIPTA is not to be used as initial therapy, but may be considered as step-up from LAMA/LABA or ICS/LABA or for patients already taking LAMA+LABA+ICS.

## **Adults**

The recommended and maximum dose is one inhalation of TRELEGY ELLIPTA 100/62.5/25 once daily either morning or evening but at the same time every day. This equates to a maximum daily dose containing fluticasone furoate 100 micrograms, umeclidinium (as bromide) 62.5 micrograms, and vilanterol (as trifenate) 25 micrograms.

## **Special populations**

### ***Paediatric populations***

Use in patients less than 18 years of age is not relevant given the indication for this product.

### ***Elderly population***

No dosage adjustment is required in patients over 65 years (see *Pharmacokinetics – Special Patient Populations*).

### ***Renal impairment***

No dosage adjustment is required for patients with renal impairment (see *Pharmacokinetics – Special Patient Populations*).

### ***Hepatic Impairment***

No dosage adjustment is required in patients with hepatic impairment. Umeclidinium has not been studied in patients with severe hepatic impairment (see *Precautions, Pharmacokinetics - Special Patient Populations*).

## **OVERDOSAGE**

No data from clinical studies are available regarding overdose of TRELEGY ELLIPTA.

## **Symptoms and signs**

An overdose of TRELEGY ELLIPTA may produce signs, symptoms or adverse effects associated with the individual components' pharmacological actions (see *Precautions and Pharmacodynamics*).

## **Treatment**

There is no specific treatment for an overdose with TRELEGY ELLIPTA. If overdose occurs, the patient should be treated supportively with appropriate monitoring as necessary.

Cardioselective beta-blockade should only be considered for profound vilanterol overdose effects that are clinically concerning and unresponsive to supportive measures. Cardioselective beta-blocking drugs should be used with caution in patients with a history of bronchospasm.

Further management should be as clinically indicated.

For information on the management of overdose, contact the Poison Information Centre on 131126 (Australia).

## **PRESENTATION AND STORAGE CONDITIONS**

### **Shelf-life**

24 months.

### **Storage**

Store below 30°C.

If stored in the refrigerator, allow the inhaler to return to room temperature for at least 1 hour before use.

Following removal from the tray, the product may be stored for a maximum period of 1 month.

Write the date that the inhaler should be discarded on the label in the space provided. The date should be added as soon as the inhaler has been removed from the tray.

### **Nature and Contents of Container**

Moulded plastic device containing two foil blister strips.

Each foil strip contains 14 or 30 regularly distributed blisters with one strip containing 100 micrograms of fluticasone furoate and the other strip containing 62.5 micrograms of umeclidinium (equivalent to 74.2 micrograms umeclidinium [as bromide]) and 25 micrograms of vilanterol (as trifenate).

Each delivered dose (the dose leaving the mouthpiece of the inhaler) contains 92 micrograms fluticasone furoate, 55 micrograms umeclidinium (equivalent to 65 micrograms umeclidinium [as bromide]) and 22 micrograms vilanterol (as trifenate).

Not all pack sizes may be distributed in Australia.

## **NAME AND ADDRESS OF THE SPONSOR**

GlaxoSmithKline Australia Pty Ltd,  
Level 4, 436 Johnston Street,  
Abbotsford, Victoria, 3067

## **POISON SCHEDULE OF THE MEDICINE**

Schedule 4 – Prescription Only Medicine

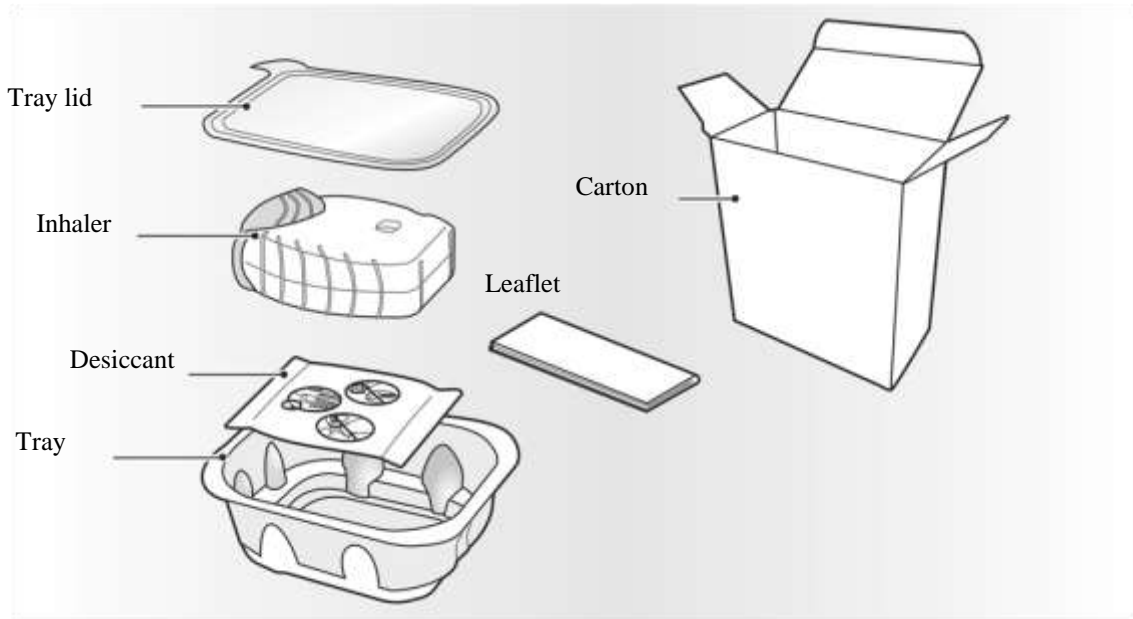
## How to Use TRELEGY ELLIPTA

### What is the Ellipta inhaler?

TRELEGY ELLIPTA is inhaled through the mouth using the Ellipta inhaler.

When you first use the Ellipta inhaler you do not need to check that it is working properly, and you do not need to prepare it for use in any special way. Just follow these step-by-step instructions.

### Your Ellipta inhaler carton contains:



The inhaler is packaged in a tray. **Do not open the tray until you are ready to inhale a dose of your medicine.** When you are ready to use your inhaler, peel back the lid to open the tray. The tray contains a **desiccant** sachet, to reduce moisture. Throw this desiccant sachet away — **do not** open, eat or inhale it.



When you take the inhaler out of the sealed tray, it will be in the 'closed' position. **Do not open the inhaler until you are ready to inhale a dose of medicine.** Write the "Discard

by” date on the inhaler label in the space provided. The “Discard by” date is 1 month from the date you open the tray. **After this date, the inhaler should no longer be used.**

The step-by-step instructions shown below for the 30-dose (30-day supply) Ellipta inhaler also apply to the 14-dose (14-day supply) Ellipta inhaler.

### Important information to read before you start

**If you open and close the cover without inhaling the medicine, you will lose the dose.**

The lost dose will be securely held inside the inhaler, but it will no longer be available. It is not possible to accidentally take extra medicine or a double dose in one inhalation.

#### Dose counter

This shows how many doses of medicine are left in the inhaler.

**Before the inhaler has been used, it shows exactly 30 doses.**

It counts down by **1** each time you open the cover.

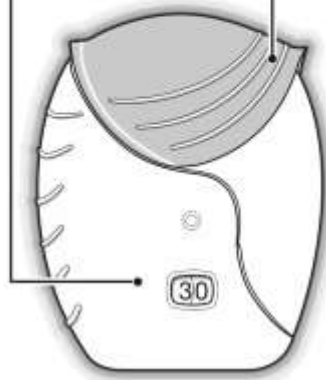
**When fewer than 10 doses are left, half of the dose counter shows red.**

After you have used the last dose, **half of the dose counter shows red and the number 0 is displayed.** Your inhaler is now empty.

If you open the cover after this, the dose counter will change from half red to completely red.

#### Cover

Each time you open this, you prepare one dose of medicine.

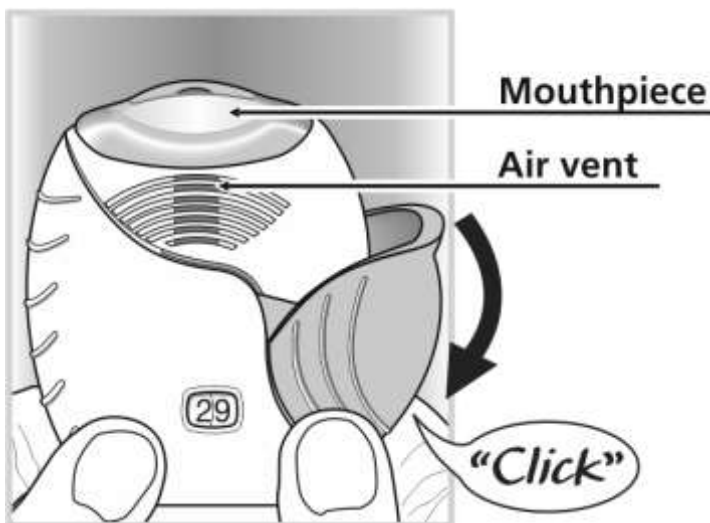


### Step 1: Prepare a dose

**Wait to open the cover until you are ready to take your dose.**

**Do not shake the inhaler.**

- **Slide the cover fully down until you hear a “click”.**



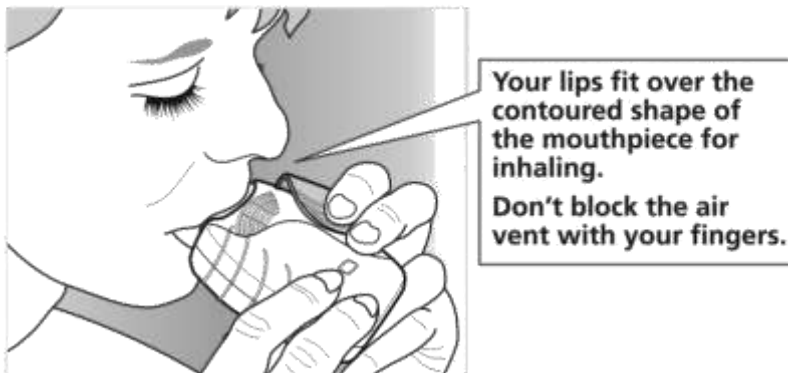
Your medicine is now ready to be inhaled.

The dose counter counts down by 1 to confirm.

- **If the dose counter does not count down as you hear the “click”, the inhaler will not deliver medicine.**  
**Take it back to your pharmacist for advice.**
- **Do not shake the inhaler at any time.**

### **Step 2: Inhale your medicine**

- **Whilst holding the inhaler away from your mouth, breathe out as far as is comfortable.**  
**Do not** breathe out into the inhaler.
- **Put the mouthpiece between your lips, and close your lips firmly around it.**  
**Do not** block the air vent with your fingers.



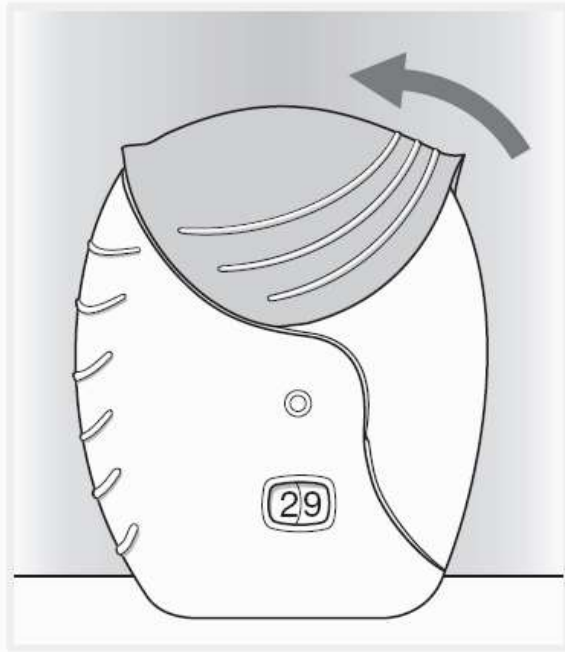
- **Take one long, steady, deep breath in. Hold this breath for about 3-4 seconds or for as long as is comfortable.**
- **Remove the inhaler from your mouth.**
- **Breathe out slowly and gently away from the mouthpiece.**

**You may not be able to taste or feel the medicine, even when you are using the inhaler correctly.**

If you want to clean the mouthpiece, use a **dry tissue**, **before** you close the cover.

### **Step 3: Close the inhaler and rinse your mouth**

- **Slide the cover upwards as far as it will go, to cover the mouthpiece.**



- **Rinse your mouth with water without swallowing after you have used the inhaler.**

This will make it less likely that you will develop a sore mouth or throat as side effects.

**DATE OF FIRST INCLUSION IN THE AUSTRALIAN REGISTER OF THERAPEUTIC GOODS (THE ARTG): 16 January 2018**

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TRELEGY ELLIPTA was developed in collaboration with Innoviva, Inc.

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