ANNEX I

SUMMARY OF PRODUCT CHARACTERISTICS
This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions. See section 4.8 for how to report adverse reactions.

1. **NAME OF THE MEDICINAL PRODUCT**

Ultibro Breezhaler 85 micrograms/43 micrograms, inhalation powder hard capsules

2. **QUALITATIVE AND QUANTITATIVE COMPOSITION**

Each capsule contains 143 µg of indacaterol maleate equivalent to 110 µg of indacaterol and 63 µg of glycopyrronium bromide equivalent to 50 µg of glycopyrronium.

Each delivered dose (the dose that leaves the mouthpiece of the inhaler) contains 110 µg of indacaterol maleate equivalent to 85 µg of indacaterol and 54 µg of glycopyrronium bromide equivalent to 43 µg of glycopyrronium.

*Excipient(s) with known effect:*
Each capsule contains 23.5 mg lactose (as monohydrate).

For the full list of excipients, see section 6.1.

3. **PHARMACEUTICAL FORM**

Inhalation powder, hard capsule

Capsules with transparent yellow cap and natural transparent body containing a white to almost white powder, with the product code “IGP110.50” printed in blue under two blue bars on the body and the company logo (¶) printed in black on the cap.

4. **CLINICAL PARTICULARS**

4.1 **Therapeutic indications**

Ultibro Breezhaler is indicated as a maintenance bronchodilator treatment to relieve symptoms in adult patients with chronic obstructive pulmonary disease (COPD).

4.2 **Posology and method of administration**

**Posology**
The recommended dose is the inhalation of the content of one capsule once daily using the Ultibro Breezhaler inhaler.

Ultibro Breezhaler is recommended to be administered at the same time of the day each day. If a dose is missed, it should be taken as soon as possible on the same day. Patients should be instructed not to take more than one dose in a day.

**Special populations**

_Elderly population_

Ultibro Breezhaler can be used at the recommended dose in elderly patients (75 years of age and older).
Renal impairment
Ultibro Breezhaler can be used at the recommended dose in patients with mild to moderate renal impairment. In patients with severe renal impairment or end-stage renal disease requiring dialysis it should be used only if the expected benefit outweighs the potential risk (see sections 4.4 and 5.2).

Hepatic impairment
Ultibro Breezhaler can be used at the recommended dose in patients with mild and moderate hepatic impairment. There are no data available for the use of Ultibro Breezhaler in patients with severe hepatic impairment, therefore caution should be observed in these patients (see section 5.2).

Paediatric population
There is no relevant use of Ultibro Breezhaler in the paediatric population (under 18 years) in the indication COPD. The safety and efficacy of Ultibro Breezhaler in children have not been established. No data are available.

Method of administration
For inhalation use only. The capsules must not be swallowed.

The capsules must be administered only using the Ultibro Breezhaler inhaler (see section 6.6).

Patients should be instructed on how to administer the product correctly. Patients who do not experience improvement in breathing should be asked if they are swallowing the medicine rather than inhaling it.

For instructions on use of the medicinal product before administration, see section 6.6.

4.3 Contraindications
Hypersensitivity to the active substances or to any of the excipients listed in section 6.1.

4.4 Special warnings and precautions for use
Ultibro Breezhaler should not be administered concomitantly with medicinal products containing other long-acting beta-adrenergic agonists or long-acting muscarinic antagonists, the pharmacotherapeutic groups to which the components of Ultibro Breezhaler belong (see section 4.5).

Asthma
Ultibro Breezhaler should not be used for the treatment of asthma due to the absence of data in this indication.

Long-acting beta₂-adrenergic agonists may increase the risk of asthma-related serious adverse events, including asthma-related deaths, when used for the treatment of asthma.

Not for acute use
Ultibro Breezhaler is not indicated for the treatment of acute episodes of bronchospasm.

Hypersensitivity related to indacaterol
Immediate hypersensitivity reactions have been reported after administration of indacaterol, one of the components of Ultibro Breezhaler. If signs suggesting allergic reactions (in particular, difficulties in breathing or swallowing, swelling of tongue, lips and face, urticaria, skin rash) occur, treatment should be discontinued immediately and alternative therapy instituted.
Paradoxical bronchospasm
In clinical studies with Ultibro Breezhaler, paradoxical bronchospasm was not observed. However, paradoxical bronchospasm has been observed with other inhalation therapy and can be life-threatening. If this occurs, treatment should be discontinued immediately and alternative therapy instituted.

Anticholinergic effects related to glycopyrronium

Narrow-angle glaucoma
No data are available in patients with narrow-angle glaucoma, therefore Ultibro Breezhaler should be used with caution in these patients.

Patients should be informed about the signs and symptoms of acute narrow-angle glaucoma and should be informed to stop using Ultibro Breezhaler should any of these signs or symptoms develop.

Urinary retention
No data are available in patients with urinary retention, therefore Ultibro Breezhaler should be used with caution in these patients.

Patients with severe renal impairment
A moderate mean increase in total system exposure (AUC_{last}) to glycopyrronium of up to 1.4-fold was seen in subjects with mild and moderate renal impairment and up to 2.2-fold in subjects with severe renal impairment and end-stage renal disease. In patients with severe renal impairment (estimated glomerular filtration rate below 30 ml/min/1.73 m²), including those with end-stage renal disease requiring dialysis, Ultibro Breezhaler should be used only if the expected benefit outweighs the potential risk (see section 5.2). These patients should be monitored closely for potential adverse reactions.

Cardiovascular effects
Ultibro Breezhaler should be used with caution in patients with cardiovascular disorders (coronary artery disease, acute myocardial infarction, cardiac arrhythmias, hypertension).

Beta₂-adrenergic agonists may produce a clinically significant cardiovascular effect in some patients as measured by increases in pulse rate, blood pressure, and/or symptoms. In case such effects occur with this medicinal product, treatment may need to be discontinued. In addition, beta-adrenergic agonists have been reported to produce electrocardiographic (ECG) changes, such as flattening of the T wave, prolongation of QT interval and ST segment depression, although the clinical significance of these observations is unknown. Therefore, long-acting beta₂-adrenergic agonists should be used with caution in patients with known or suspected prolongation of the QT interval or treated with medicinal products affecting the QT interval.

Patients with unstable ischaemic heart disease, left ventricular failure, history of myocardial infarction, arrhythmia (excluding chronic stable atrial fibrillation), a history of long QT syndrome or whose QTc (Fridericia method) was prolonged (>450 ms) were excluded from the clinical trials, and therefore there is no experience in these patient groups. Ultibro Breezhaler should be used with caution in these patient groups.

Hypokalaemia
Beta₂-adrenergic agonists may produce significant hypokalaemia in some patients, which has the potential to produce adverse cardiovascular effects. The decrease in serum potassium is usually transient, not requiring supplementation. In patients with severe COPD, hypokalaemia may be potentiated by hypoxia and concomitant treatment, which may increase the susceptibility to cardiac arrhythmias (see section 4.5).

Clinically relevant effects of hypokalaemia have not been observed in clinical studies of Ultibro Breezhaler at the recommended therapeutic dose (see section 5.1).
Hyperglycaemia
Inhalation of high doses of beta₂-adrenergic agonists may produce increases in plasma glucose. Upon initiation of treatment with Ultibro Breezhaler plasma glucose should be monitored more closely in diabetic patients.

During clinical studies, more patients on Ultibro Breezhaler experienced clinically notable changes in blood glucose (4.1%) at the recommended dose than on placebo (2.3%). Ultibro Breezhaler has not been investigated in patients for whom diabetes mellitus is not well controlled.

General disorders
Ultibro Breezhaler should be used with caution in patients with convulsive disorders or thyrotoxicosis, and in patients who are unusually responsive to beta₂-adrenergic agonists.

Excipients
Patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or glucose-galactose malabsorption should not take this medicine.

4.5 Interaction with other medicinal products and other forms of interaction
Concomitant administration of orally inhaled indacaterol and glycopyrronium, under steady-state conditions of both components, did not affect the pharmacokinetics of either component.

No specific interaction studies were conducted with Ultibro Breezhaler. Information on the potential for interactions is based on the potential for each of its two components.

Concomitant use not recommended
Beta-adrenergic blockers
Beta-adrenergic blockers may weaken or antagonise the effect of beta₂-adrenergic agonists. Therefore Ultibro Breezhaler should not be given together with beta-adrenergic blockers (including eye drops) unless there are compelling reasons for their use. Where required, cardioselective beta-adrenergic blockers should be preferred, although they should be administered with caution.

Anticholinergics
The co-administration of Ultibro Breezhaler with other anticholinergic-containing medicinal products has not been studied and is therefore not recommended (see section 4.4).

Sympathomimetic agents
Concomitant administration of other sympathomimetic agents (alone or as part of combination therapy) may potentiate the adverse events of indacaterol (see section 4.4).

Caution required with concomitant use
Hypokalaemic treatment
Concomitant hypokalaemic treatment with methylxanthine derivatives, steroids, or non-potassium-sparing diuretics may potentiate the possible hypokalaemic effect of beta₂-adrenergic agonists, therefore use with caution (see section 4.4).

To be taken into account with concomitant use
Metabolic and transporter based interactions
Inhibition of the key contributors of indacaterol clearance, CYP3A4 and P-glycoprotein (P-gp), raises the systemic exposure of indacaterol up to two-fold. The magnitude of exposure increases due to interactions does not raise any safety concerns given the safety experience of treatment with indacaterol in clinical studies of up to one year at doses up to twice the maximum recommended indacaterol dose.
**Cimetidine or other inhibitors of organic cation transport**

In a clinical study in healthy volunteers, cimetidine, an inhibitor of organic cation transport which is thought to contribute to the renal excretion of glycopyrronium, increased total exposure (AUC) to glycopyrronium by 22% and decreased renal clearance by 23%. Based on the magnitude of these changes, no clinically relevant drug interaction is expected when glycopyrronium is co-administered with cimetidine or other inhibitors of the organic cation transport.

### 4.6 Fertility, pregnancy and lactation

**Pregnancy**

There are no data from the use of Ultibro Breezhaler in pregnant women available. Animal studies do not indicate direct or indirect harmful effects with respect to reproductive toxicity at clinically relevant exposures (see section 5.3).

Indacaterol may inhibit labour due to a relaxant effect on uterine smooth muscle. Therefore, Ultibro Breezhaler should only be used during pregnancy if the expected benefit to the patient justifies the potential risk to the foetus.

**Breast-feeding**

It is not known whether indacaterol, glycopyrronium and their metabolites are excreted in human milk. Available pharmacokinetic/toxicological data have shown excretion of indacaterol, glycopyrronium and their metabolites in the milk of lactating rats. The use of Ultibro Breezhaler by breast-feeding women should only be considered if the expected benefit to the woman is greater than any possible risk to the infant (see section 5.3).

**Fertility**

Reproduction studies and other data in animals do not indicate a concern regarding fertility in either males or females.

### 4.7 Effects on ability to drive and use machines

This medicinal product has no or negligible influence on the ability to drive and use machines. However, the occurrence of dizziness may influence the ability to drive and use machines (see section 4.8).

### 4.8 Undesirable effects

The presentation of the safety profile is based on the experience with Ultibro Breezhaler and the individual components.

**Summary of the safety profile**

The safety experience with Ultibro Breezhaler was comprised of exposure of up to 15 months at the recommended therapeutic dose.

Ultibro Breezhaler showed similar adverse reactions to the individual components. As it contains indacaterol and glycopyrronium, the type and severity of adverse reactions associated with each of these components may be expected in the combination.

The safety profile is characterised by typical anticholinergic and beta-adrenergic symptoms related to the individual components of the combination. Other most common adverse reactions related to the product (reported in at least 3% of patients for Ultibro Breezhaler and also greater than placebo) were cough and oropharyngeal pain (including throat irritation).
Tabulated summary of adverse reactions
Adverse reactions reported during the first six months of two pooled pivotal Phase III trials of 6 and 12 months duration (core 6-month safety database) are listed by MedDRA system organ class. Within each system organ class, the adverse reactions are ranked by frequency, with the most frequent reactions first. Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness. In addition, the corresponding frequency category for each adverse reaction is based on the following convention: very common (≥1/10); common (≥1/100 to <1/10); uncommon (≥1/1,000 to <1/100); rare (≥1/10,000, <1/1,000); very rare (<1/10,000); not known (cannot be estimated from the available data).

Table 1  Adverse reactions reported in the core 6-month safety database

<table>
<thead>
<tr>
<th>Adverse reactions</th>
<th>Frequency category</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Infections and infestations</strong></td>
<td></td>
</tr>
<tr>
<td>Upper respiratory tract infection(^2)</td>
<td>Very common</td>
</tr>
<tr>
<td>Nasopharyngitis(^2)</td>
<td>Common</td>
</tr>
<tr>
<td>Urinary tract infection(^2)</td>
<td>Common</td>
</tr>
<tr>
<td>Sinusitis(^2)</td>
<td>Common</td>
</tr>
<tr>
<td>Rhinitis(^2)</td>
<td>Common</td>
</tr>
<tr>
<td><strong>Immune system disorders</strong></td>
<td></td>
</tr>
<tr>
<td>Hypersensitivity(^2)</td>
<td>Uncommon</td>
</tr>
<tr>
<td><strong>Metabolism and nutrition disorders</strong></td>
<td></td>
</tr>
<tr>
<td>Diabetes mellitus and hyperglycaemia(^2)</td>
<td>Uncommon</td>
</tr>
<tr>
<td><strong>Psychiatric disorders</strong></td>
<td></td>
</tr>
<tr>
<td>Insomnia(^2)</td>
<td>Uncommon</td>
</tr>
<tr>
<td><strong>Nervous system disorders</strong></td>
<td></td>
</tr>
<tr>
<td>Dizziness(^2)</td>
<td>Common</td>
</tr>
<tr>
<td>Headache(^2)</td>
<td>Common</td>
</tr>
<tr>
<td>Paraesthesia(^2)</td>
<td>Uncommon</td>
</tr>
<tr>
<td><strong>Eye disorders</strong></td>
<td></td>
</tr>
<tr>
<td>Glaucoma(^1)</td>
<td>Uncommon</td>
</tr>
<tr>
<td><strong>Cardiac disorders</strong></td>
<td></td>
</tr>
<tr>
<td>Ischaemic heart disease(^2)</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Atrial fibrillation(^7)</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Tachycardia(^2)</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Palpitations(^2)</td>
<td>Uncommon</td>
</tr>
<tr>
<td><strong>Respiratory, thoracic and mediastinal disorders</strong></td>
<td></td>
</tr>
<tr>
<td>Cough(^2)</td>
<td>Common</td>
</tr>
<tr>
<td>Oropharyngeal pain including throat irritation(^2)</td>
<td>Common</td>
</tr>
<tr>
<td>Paradoxical bronchospasm(^3)</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Epistaxis(^2)</td>
<td>Uncommon</td>
</tr>
</tbody>
</table>
### Gastrointestinal disorders

<table>
<thead>
<tr>
<th>Condition</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dyspepsia</td>
<td>Common</td>
</tr>
<tr>
<td>Dental caries</td>
<td>Common</td>
</tr>
<tr>
<td>Gastroenteritis</td>
<td>Common</td>
</tr>
<tr>
<td>Dry mouth</td>
<td>Uncommon</td>
</tr>
</tbody>
</table>

### Skin and subcutaneous tissue disorders

<table>
<thead>
<tr>
<th>Condition</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pruritus/rash</td>
<td>Uncommon</td>
</tr>
</tbody>
</table>

### Musculoskeletal and connective tissue disorders

<table>
<thead>
<tr>
<th>Condition</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Musculoskeletal pain</td>
<td>Common</td>
</tr>
<tr>
<td>Muscle spasm</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Myalgia</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Pain in extremity</td>
<td>Uncommon</td>
</tr>
</tbody>
</table>

### Renal and urinary disorders

<table>
<thead>
<tr>
<th>Condition</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bladder obstruction and urinary retention</td>
<td>Uncommon</td>
</tr>
</tbody>
</table>

### General disorders and administration site conditions

<table>
<thead>
<tr>
<th>Condition</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrexia</td>
<td>Common</td>
</tr>
<tr>
<td>Chest pain</td>
<td>Common</td>
</tr>
<tr>
<td>Peripheral oedema</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Fatigue</td>
<td>Uncommon</td>
</tr>
</tbody>
</table>

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1. Adverse reaction observed with Ultibro Breezhaler, but not with the individual components.
2. Adverse reaction observed with Ultibro Breezhaler and at least one of the individual components.
3. Adverse reaction observed with at least one of the individual components, but not with Ultibro Breezhaler; frequency category according to section 4.8 of Summary of Product Characteristics of the individual components.

### Description of selected adverse reactions

Cough was common, but usually of mild intensity.

### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

### 4.9 Overdose

There is no information on clinically relevant overdosing with Ultibro Breezhaler.

An overdose could lead to exaggerated effects typical of beta₂-adrenergic stimulants, i.e. tachycardia, tremor, palpitations, headache, nausea, vomiting, drowsiness, ventricular arrhythmias, metabolic acidosis, hypokalaemia and hyperglycaemia or could induce anticholinergic effects such as increased intraocular pressure (causing pain, vision disturbances or reddening of the eye), obstipation or difficulties in voiding. Supportive and symptomatic treatment is indicated. In serious cases, patients should be hospitalised. Use of cardioselective beta blockers may be considered for treating beta₂-adrenergic effects, but only under the supervision of a physician and with extreme caution since the use of beta-adrenergic blockers may provoke bronchospasm.
5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Drugs for obstructive airway diseases, adrenergics in combination with anticholinergics, ATC code: R03AL04

Mechanism of action

*Ultibro Breezhaler*

When indacaterol and glycopyrronium are administered together in Ultibro Breezhaler, they provide additive efficacy due to their different mode of action targeting different receptors and pathways to achieve smooth muscle relaxation. Due to the differential density of beta_{2}-adrenoceptors and M3-receptors in central versus peripheral airways, beta_{2}-agonists should be more effective in relaxing peripheral airways, whilst an anticholinergic compound may be more effective in central airways. Thus for bronchodilation in both peripheral and central airways of the human lung a combination of a beta_{2}-adrenergic agonist and a muscarinic antagonist may be beneficial.

*Indacaterol*

Indacaterol is a long-acting beta_{2}-adrenergic agonist for once-daily administration. The pharmacological effects of beta_{2}-adrenoceptor agonists, including indacaterol, are at least in part attributable to stimulation of intracellular adenyl 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. *In vitro* studies have shown that indacaterol has multi-fold greater agonist activity at beta_{2}-receptors compared to beta_{1} and beta_{3}-receptors.

When inhaled, indacaterol acts locally in the lung as a bronchodilator. Indacaterol is a partial agonist at the human beta_{2}-adrenergic receptor with nanomolar potency.

Although beta_{2}-adrenergic receptors are the predominant adrenergic receptors in bronchial smooth muscle and beta_{1}-adrenergic receptors are the predominant receptors in the human heart, there are also beta_{2}-adrenergic receptors in the human heart comprising 10% to 50% of the total adrenergic receptors. Their presence in the heart raises the possibility that even highly selective beta_{2}-adrenergic agonists may have cardiac effects.

*Glycopyrronium*

Glycopyrronium is an inhaled long-acting muscarinic receptor antagonist (anticholinergic) for once-daily maintenance bronchodilator treatment of COPD. Parasympathetic nerves are the major bronchoconstrictive neural pathway in airways, and cholinergic tone is the key reversible component of airflow obstruction in COPD. Glycopyrronium works by blocking the bronchoconstrictor action of acetylcholine on airway smooth muscle cells, thereby dilating the airways.

Glycopyrronium bromide is a high affinity muscarinic receptor antagonist. A greater than 4-fold selectivity for the human M3 receptors over the human M2 receptor has been demonstrated using radioligand binding studies.

Pharmacodynamic effects

The combination of indacaterol and glycopyrronium in Ultibro Breezhaler showed a rapid onset of action within 5 minutes after dosing. The effect remains constant over the whole 24-h dosing interval.

The mean bronchodilator effect derived from serial FEV\textsubscript{1} measurements over 24 h was 320 ml after 26 weeks of treatment. The effect was significantly greater for Ultibro Breezhaler, when compared to indacaterol, glycopyrronium or tiotropium alone (difference 110 ml, for each comparison).

There was no evidence for tachyphylaxis to the effect of Ultibro Breezhaler over time when compared to placebo or its monotherapy components.
Effects on heart rate
Heart rate effects in healthy volunteers were investigated after a single dose of 4 times the recommended therapeutic dose of Ultibro Breezhaler administered in four dose steps each separated by one hour and compared to the effects of placebo, indacaterol, glycopyrronium and salmeterol.

The largest time-matched heart rate increase compared to placebo was +5.69 bpm (90% CI [2.71, 8.66]), the largest decrease was -2.51 bpm (90% CI [-5.48, 0.47]). Overall the effect on heart rate over time did not show a consistent pharmacodynamic effect of Ultibro Breezhaler.

Heart rate in COPD patients at supratherapeutic dose levels was investigated. There were no relevant effects of Ultibro Breezhaler on mean heart rate over 24 h and heart rate assessed after 30 minutes, 4 h and 24 h.

QT interval
The components of Ultibro Breezhaler are not known to have a QT-prolongation potential at clinical dose levels. A thorough QT (TQT) study in healthy volunteers with high doses of inhaled indacaterol (up to twice the maximum recommended therapeutic dose) did not demonstrate a clinically relevant effect on the QT interval. Similarly, for glycopyrronium no QT prolongation was observed in a TQT study after an inhaled dose of 8 times the recommended therapeutic dose.

The effects of Ultibro Breezhaler on QTc interval were investigated in healthy volunteers after inhalation of Ultibro Breezhaler up to 4 times the recommended therapeutic dose in four dose steps each separated by one hour. The largest time-matched difference versus placebo was 4.62 ms (90% CI 0.40, 8.85 ms), the largest time-matched decrease was -2.71 ms (90% CI -6.97, 1.54 ms), indicating that Ultibro Breezhaler had no relevant impact on the QT interval, as was expected by the properties of its components.

In COPD patients, supratherapeutic doses between 116 µg/86 µg and 464 µg/86 µg of Ultibro Breezhaler showed a higher proportion of patients with QTcF increases vs. baseline between 30 ms and 60 ms (ranging from 16.0% to 21.6% vs. 1.9% for placebo), but there were no QTcF increases >60 ms from baseline. The highest dose level of 464 µg/86 µg Ultibro Breezhaler also showed a higher proportion of absolute QTcF values >450 ms (12.2% vs. 5.7% for placebo).

Serum potassium and blood glucose
In healthy volunteers, after the administration of 4 times the recommended therapeutic dose of Ultibro Breezhaler, the effect on serum potassium was very small (maximal difference ~0.14 mmol/l when compared to placebo). The maximal effect on blood glucose was 0.67 mmol/l.

Clinical efficacy and safety
The Ultibro Breezhaler clinical Phase III development programme included five studies in which over 5,000 patients were enrolled: 1) a 26-week placebo- and active-controlled (indacaterol once daily, glycopyrronium once daily, open-label tiotropium once daily) study; 2) a 26-week active-controlled (fluticasone/salmeterol twice daily) study; 3) a 64-week active-controlled (glycopyrronium once daily, open-label tiotropium once daily) study; 4) a 52-week placebo-controlled study; and 5) a 3-week placebo- and active-controlled (tiotropium once daily) exercise tolerance study.

In four of these studies patients were enrolled who had a clinical diagnosis of moderate to severe COPD. In the 64-week study patients were enrolled who had severe to very severe COPD.

Effects on lung function
Ultibro Breezhaler showed clinically meaningful improvements in lung function (as measured by the forced expiratory volume in one second, FEV1) in a number of clinical studies. In Phase III studies, bronchodilator effects were seen within 5 minutes after the first dose and were maintained over the 24-hour dosing interval from the first dose. There was no attenuation of the bronchodilator effect over time.
The magnitude of the effect was dependent on the degree of reversibility of airflow limitation at baseline (test by administration of a short-acting muscarinic antagonist bronchodilator and a short-acting beta₂ agonist bronchodilator): Patients with the lowest degree of reversibility (<5%) generally exhibited a lower bronchodilator response than patients with a higher degree of reversibility at baseline (≥5%). At 26 weeks (primary endpoint), Ultibro Breezhaler increased trough FEV₁ by 80 ml in patients (Ultibro Breezhaler n=82; placebo n=42) with the lowest degree of reversibility (<5%) (p=0.053) and by 220 ml in those patients (Ultibro Breezhaler n=392, placebo n=190) with a higher degree of reversibility at baseline (≥5%) compared to placebo (p<0.001).

Trough and peak FEV₁:
Ultibro Breezhaler increased post-dose trough FEV₁ by 200 ml compared to placebo at the 26-week primary endpoint (p<0.001) and showed statistically significant increases compared to each monotherapy component treatment arm (indacaterol and glycopyrronium) as well as the tiotropium treatment arm, as shown in the below table.

**Post-dose trough FEV₁ (least squares mean) at day 1 and week 26 (primary endpoint)**

<table>
<thead>
<tr>
<th>Treatment difference</th>
<th>Day 1</th>
<th>Week 26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultibro Breezhaler – placebo</td>
<td>190 ml (p&lt;0.001)</td>
<td>200 ml (p&lt;0.001)</td>
</tr>
<tr>
<td>Ultibro Breezhaler – indacaterol</td>
<td>80 ml (p&lt;0.001)</td>
<td>70 ml (p&lt;0.001)</td>
</tr>
<tr>
<td>Ultibro Breezhaler – glycopyrronium</td>
<td>80 ml (p&lt;0.001)</td>
<td>90 ml (p&lt;0.001)</td>
</tr>
<tr>
<td>Ultibro Breezhaler – tiotropium</td>
<td>80 ml (p&lt;0.001)</td>
<td>80 ml (p&lt;0.001)</td>
</tr>
</tbody>
</table>

The mean pre-dose FEV₁ (average of the values taken at -45 and -15 minutes prior to the morning dose of study medication) was statistically significant in favour of Ultibro Breezhaler at week 26 compared to fluticasone/salmeterol (100 ml, p<0.001), at week 52 compared to placebo (189 ml, p<0.001) and at all visits up to week 64 compared to glycopyrronium (70-80 ml, p<0.001) and tiotropium (60-70 ml, p<0.001). At week 26, Ultibro Breezhaler produced statistically significant improvement in peak FEV₁ compared to placebo in the first 4 hours post dose (330 ml) (p<0.001).

FEV₁ AUC:
Ultibro Breezhaler increased post-dose FEV₁ AUC₀₋₁₂ (primary endpoint) by 140 ml at 26 weeks (p<0.001) compared to fluticasone/salmeterol.

**Symptomatic outcomes**

**Breathlessness:**
Ultibro Breezhaler statistically significantly reduced breathlessness as evaluated by the Transitional Dyspnoea Index (TDI); it demonstrated a statistically significant improvement in the TDI focal score at week 26 compared to placebo (1.09, p<0.001), tiotropium (0.51, p=0.007) and fluticasone/salmeterol (0.76, p=0.003). Improvements versus indacaterol and glycopyrronium were 0.26 and 0.21, respectively.

A statistically significantly higher percentage of patients receiving Ultibro Breezhaler responded with a 1 point or greater improvement in the TDI focal score at week 26 compared to placebo (68.1% and 57.5% respectively, p=0.004). A higher proportion of patients demonstrated clinically meaningful response at week 26 on Ultibro Breezhaler as compared to tiotropium (68.1% Ultibro Breezhaler versus 59.2% tiotropium, p=0.016) and fluticasone/salmeterol (65.1% Ultibro Breezhaler versus 55.5% fluticasone/salmeterol, p=0.088).

**Health-related quality of life:**
Ultibro Breezhaler has also shown a statistically significant effect on health-related quality of life measured using the St. George’s Respiratory Questionnaire (SGRQ) as indicated by a reduction in SGRQ total score at 26 weeks compared to placebo (-3.01, p=0.002) and tiotropium (-2.13, p=0.009) and reductions versus indacaterol and glycopyrronium were -1.09 and -1.18, respectively. At 64 weeks, the reduction compared to tiotropium was statistically significant (least squares mean difference -2.69, p<0.001).
A higher percentage of patients receiving Ultibro Breezhaler responded with a clinically meaningful improvement in SGRQ score (defined as a decrease of at least 4 units from baseline) at week 26 compared to placebo (63.7% and 56.6% respectively, p=0.088) and tiotropium (63.7% Ultibro Breezhaler vs. 56.4% tiotropium, p=0.047), and at week 64 compared to glycopyrronium and tiotropium (57.3% Ultibro Breezhaler versus 51.8% glycopyrronium, p=0.055; versus 50.8% tiotropium, p=0.051, respectively).

**Daily activities**

Ultibro Breezhaler demonstrated a statistically superior improvement versus tiotropium in the percentage of “days able to perform usual daily activities” over 26 weeks (8.45%, p<0.001). At week 64, Ultibro Breezhaler showed numerical improvement over glycopyrronium (1.95%; p=0.175) and statistical improvement over tiotropium (4.96%; p=0.01).

**COPD exacerbations**

In a 64-week study comparing Ultibro Breezhaler (n=729), glycopyrronium (n=739) and tiotropium (n=737), Ultibro Breezhaler reduced the annualised rate of moderate or severe COPD exacerbations by 12% compared to glycopyrronium (p=0.038) and by 10% compared to tiotropium (p=0.096). The number of moderate or severe COPD exacerbations/patient-years was 0.94 for Ultibro Breezhaler (812 events), 1.07 for glycopyrronium (900 events) and 1.06 for tiotropium (898 events). Ultibro Breezhaler also statistically significantly reduced the annualised rate of all COPD exacerbations (mild, moderate or severe) by 15% as compared to glycopyrronium (p=0.001) and 14% as compared to tiotropium (p=0.002). The number of all COPD exacerbations/patient-years was 3.34 for Ultibro Breezhaler (2,893 events), 3.92 for glycopyrronium (3,294 events) and 3.89 for tiotropium (3,301 events).

In a 26-week study comparing Ultibro Breezhaler (n=258) and fluticasone/salmeterol (n=264), the number of moderate or severe COPD exacerbations/patient-years was 0.15 versus 0.18 (18 events versus 22 events), respectively (p=0.512), and the number of all COPD exacerbations/patients-years (mild, moderate or severe) was 0.72 versus 0.94 (86 events versus 113 events), respectively (p=0.098).

**Use of rescue medication**

Over 26 weeks, Ultibro Breezhaler statistically significantly reduced the use of rescue medication (salbutamol) by 0.96 puffs per day (p<0.001) compared to placebo, 0.54 puffs per day (p<0.001) compared to tiotropium and 0.39 puffs per day (p=0.019) compared to fluticasone/salmeterol. Over 64 weeks, this reduction was 0.76 puffs per day (p<0.001) compared to tiotropium.

**Exercise tolerance**

Ultibro Breezhaler, dosed in the morning, reduced dynamic hyperinflation and improved the length of time exercise could be maintained from the first dose onwards. On the first day of treatment, inspiratory capacity under exercise was significantly improved (250 ml, p<0.001) compared to placebo. After three weeks of treatment, the improvement in inspiratory capacity with Ultibro Breezhaler was greater (320 ml, p<0.001) and exercise endurance time increased (59.5 seconds, p=0.006) compared to placebo.

**Paediatric population**

The European Medicines Agency has waived the obligation to submit the results of studies with Ultibro Breezhaler in all subsets of the paediatric population in chronic obstructive pulmonary disease (COPD) (see section 4.2 for information on paediatric use).
5.2 Pharmacokinetic properties

Absorption
**Ultibro Breezhaler**
Following inhalation of Ultibro Breezhaler, the median time to reach peak plasma concentrations of indacaterol and glycopyrronium was approximately 15 minutes and 5 minutes, respectively.

Based on the *in vitro* performance data, the dose of indacaterol delivered to the lung is expected to be similar for Ultibro Breezhaler and indacaterol monotherapy product. Steady-state exposure to indacaterol after Ultibro Breezhaler inhalation was either similar or slightly lower than systemic exposure after indacaterol monotherapy product inhalation.

Following inhalation of Ultibro Breezhaler, the absolute bioavailability of indacaterol has been estimated to range from 61 to 85% of the delivered dose, and that of glycopyrronium was about 47% of the delivered dose.

Steady-state exposure to glycopyrronium after Ultibro Breezhaler inhalation was similar to systemic exposure after glycopyrronium monotherapy product inhalation.

**Indacaterol**
Steady state concentrations of indacaterol were achieved within 12 to 15 days following once-daily administration. The mean accumulation ratio of indacaterol, i.e. AUC over the 24-h dosing interval on day 14 or day 15 compared to day 1, was in the range of 2.9 to 3.8 for once-daily inhaled doses between 60 µg and 480 µg (delivered dose).

**Glycopyrronium**
In patients with COPD, pharmacokinetic steady-state of glycopyrronium was reached within one week of the start of treatment. The steady-state mean peak and trough plasma concentrations of glycopyrronium at the recommended once-daily dosing regimen were 166 picograms/ml and 8 picograms/ml, respectively. Steady-state exposure to glycopyrronium (AUC over the 24-hour dosing interval) was about 1.4- to 1.7-fold higher than after the first dose.

Distribution
**Indacaterol**
After intravenous infusion the volume of distribution of indacaterol during the terminal elimination phase was 2557 litres indicating an extensive distribution. The *in vitro* human serum and plasma protein binding was about 95%.

**Glycopyrronium**
After intravenous dosing, the steady-state volume of distribution of glycopyrronium was 83 litres and the volume of distribution in the terminal phase was 376 litres. The apparent volume of distribution in the terminal phase following inhalation was almost 20-fold larger, which reflects the much slower elimination after inhalation. The *in vitro* human plasma protein binding of glycopyrronium was 38% to 41% at concentrations of 1 to 10 nanograms/ml.

Biotransformation
**Indacaterol**
After oral administration of radiolabelled indacaterol in a human ADME (absorption, distribution, metabolism, excretion) study, unchanged indacaterol was the main component in serum, accounting for about one third of total drug-related AUC over 24 hours. A hydroxylated derivative was the most prominent metabolite in serum. Phenolic O-glucuronides of indacaterol and hydroxylated indacaterol were further prominent metabolites. A diastereomer of the hydroxylated derivative, a N-glucuronide of indacaterol, and C- and N-dealkylated products were further metabolites identified.

*In vitro* the UGT1A1 isoform is a major contributor to the metabolic clearance of indacaterol. However, as shown in a clinical study in populations with different UGT1A1 genotypes, systemic exposure to indacaterol is not significantly affected by the UGT1A1-genotype.
Oxidative metabolites were found in incubations with recombinant CYP1A1, CYP2D6, and CYP3A4. CYP3A4 is concluded to be the predominant isoenzyme responsible for hydroxylation of indacaterol. *In vitro* investigations further indicated that indacaterol is a low affinity substrate for the efflux pump P-gp.

**Glycopyrronium**

*In vitro* metabolism studies showed consistent metabolic pathways for glycopyrronium bromide between animals and humans. Hydroxylation resulting in a variety of mono- and bis-hydroxylated metabolites and direct hydrolysis resulting in the formation of a carboxylic acid derivative (M9) were seen. *In vivo*, M9 is formed from the swallowed dose fraction of inhaled glycopyrronium bromide. Glucuronide and/or sulfate conjugates of glycopyrronium were found in urine of humans after repeated inhalation, accounting for about 3% of the delivered dose.

Multiple CYP isoenzymes contribute to the oxidative biotransformation of glycopyrronium. Inhibition or induction of the metabolism of glycopyrronium is unlikely to result in a relevant change of systemic exposure to the active substance.

*In vitro* inhibition studies demonstrated that glycopyrronium bromide has no relevant capacity to inhibit CYP1A2, CYP2A6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1 or CYP3A4/5, the efflux transporters MDR1, MRP2 or MXR, and the uptake transporters OCT1 or OCT2. *In vitro* enzyme induction studies did not indicate a clinically relevant induction by glycopyrronium bromide for any of the cytochrome P450 isoenzymes tested or for UGT1A1 and the transporters MDR1 and MRP2.

**Elimination**

**Indacaterol**

In clinical studies, the amount of indacaterol excreted unchanged via urine was generally lower than 2.5% of the delivered dose. Renal clearance of indacaterol was, on average, between 0.46 and 1.2 litres/hour. When compared with the serum clearance of indacaterol of 23.3 litres/hour, it is evident that renal clearance plays a minor role (about 2 to 5% of systemic clearance) in the elimination of systemically available indacaterol.

In a human ADME study, indacaterol given orally was excreted into human faeces primarily as unchanged parent substance (54% of the dose) and, to a lesser extent, hydroxylated indacaterol metabolites (23% of the dose).

Indacaterol serum concentrations declined in a multi-phasic manner with an average terminal half-life ranging from 45.5 to 126 hours. The effective half-life, calculated from the accumulation of indacaterol after repeated dosing ranged from 40 to 52 hours which is consistent with the observed time-to-steady state of approximately 12-15 days.

**Glycopyrronium**

After intravenous administration of [3H]-labelled glycopyrronium bromide, the mean urinary excretion of radioactivity in 48 hours amounted to 85% of the dose. A further 5% of the dose was found in the bile.

Renal elimination of parent drug accounts for about 60 to 70% of total clearance of systemically available glycopyrronium whereas non-renal clearance accounts for about 30 to 40%. Biliary clearance contributes to the non-renal clearance, but the majority of non-renal clearance is thought to be due to metabolism.

Mean renal clearance of glycopyrronium following inhalation was in the range of 17.4 and 24.4 litres/h. Active tubular secretion contributes to the renal elimination of glycopyrronium. Up to 23% of the delivered dose was found in urine as parent drug.
Glycopyrronium plasma concentrations declined in a multi-phasic manner. The mean terminal elimination half-life was much longer after inhalation (33 to 57 hours) than after intravenous (6.2 hours) and oral (2.8 hours) administration. The elimination pattern suggests sustained lung absorption and/or transfer of glycopyrronium into the systemic circulation at and beyond 24 h after inhalation.

**Linearity/non-linearity**

**Indacaterol**
Systemic exposure to indacaterol increased with increasing (delivered) dose (120 µg to 480 µg) in a dose proportional manner.

**Glycopyrronium**
In COPD patients both systemic exposure and total urinary excretion of glycopyrronium at pharmacokinetic steady state increased about dose-proportionally over the (delivered) dose range of 44 to 176 µg.

**Special populations**

**Ultibro Breezhaler**
A population pharmacokinetic analysis of data in COPD patients after inhalation of Ultibro Breezhaler indicated no significant effect of age, gender and (lean body) weight on the systemic exposure to indacaterol and glycopyrronium. Lean body weight (which is a function of weight and height) was identified as a covariate. A negative correlation between systemic exposure and lean body weight (or body weight) was observed; however, no dose adjustment is recommended due to the magnitude of the change or the predictive precision of lean body weight.

Smoking status and baseline FEV₁ had no apparent effect on systemic exposure to indacaterol and glycopyrronium after inhalation of Ultibro Breezhaler.

**Indacaterol**
A population pharmacokinetic analysis showed that there is no clinically relevant effect of age (adults up to 88 years), sex, weight (32-168 kg) or race on the pharmacokinetics of indacaterol. It did not suggest any difference between ethnic subgroups in this population.

**Glycopyrronium**
A population pharmacokinetic analysis of data in COPD patients identified body weight and age as factors contributing to inter-patient variability in systemic exposure. Glycopyrronium at the recommended dose can be safely used in all age and body weight groups.

Gender, smoking status and baseline FEV₁ had no apparent effect on systemic exposure.

**Patients with hepatic impairment**

**Ultibro Breezhaler:**
Based on the clinical pharmacokinetic characteristics of its monotherapy components, Ultibro Breezhaler can be used at the recommended dose in patients with mild and moderate hepatic impairment. No data are available for subjects with severe hepatic impairment.

**Indacaterol:**
Patients with mild and moderate hepatic impairment showed no relevant changes in $C_{\text{max}}$ or AUC of indacaterol, nor did protein binding differ between mild and moderate hepatic impaired subjects and their healthy controls. Studies in subjects with severe hepatic impairment were not performed.

**Glycopyrronium:**
Clinical studies have not been conducted in patients with hepatic impairment. Glycopyrronium is cleared predominantly from the systemic circulation by renal excretion. Impairment of the hepatic metabolism of glycopyrronium is not thought to result in a clinically relevant increase of systemic exposure.
Patients with renal impairment
Ultibro Breezhaler:
Based on the clinical pharmacokinetic characteristics of its monotherapy components, Ultibro Breezhaler can be used at the recommended dose in patients with mild to moderate renal impairment.
In patients with severe renal impairment or end-stage renal disease requiring dialysis, Ultibro Breezhaler should be used only if the expected benefit outweighs the potential risk.

Indacaterol:
Due to the very low contribution of the urinary pathway to total body elimination of indacaterol maleate, a study in renal impaired subjects was not performed.

Glycopyrronium:
Renal impairment has an impact on the systemic exposure to glycopyrronium bromide. A moderate mean increase in total systemic exposure (AUC_inh) of up to 1.4-fold was seen in subjects with mild and moderate renal impairment and up to 2.2-fold in subjects with severe renal impairment and end-stage renal disease. In COPD patients with mild and moderate renal impairment (estimated glomerular filtration rate, eGFR ≥30 ml/min/1.73 m²) glycopyrronium bromide can be used at the recommended dose.

Ethnicity
Ultibro Breezhaler:
There were no major differences in total systemic exposure (AUC) for both compounds between Japanese and Caucasian subjects. Insufficient pharmacokinetic data is available for other ethnicities or races.

Indacaterol:
No difference between ethnic subgroups was identified. Limited treatment experience is available for the black population.

Glycopyrronium:
There were no major differences in total systemic exposure (AUC) between Japanese and Caucasian subjects. Insufficient pharmacokinetic data is available for other ethnicities or races.

5.3 Preclinical safety data

Ultibro Breezhaler
Pre-clinical studies included in vitro and in vivo safety pharmacology assessments, repeated-dose inhalation toxicity studies in rats and dogs and an inhalation embryo-foetal development study in rats.

Increased heart rates were apparent in dogs at all doses of Ultibro Breezhaler and each monotherapy component. The effects on heart rate for Ultibro Breezhaler increased in magnitude and duration when compared with the changes observed for each component alone consistent with an additive response. Shortening of electrocardiograph intervals and decreased systolic and diastolic blood pressure were also apparent. Indacaterol administered to dogs alone or in Ultibro Breezhaler was associated with a similar incidence and severity of myocardial lesions. Systemic exposures (AUC) at the no-observed-adverse-effect level (NOAEL) for myocardial lesions were 64- and 59-fold higher than in humans, for each component respectively.

No effects on the embryo or foetus were seen at any dose level of Ultibro Breezhaler during an embryo-foetal development study in rats. Systemic exposures (AUC) at the no-observed-adverse-effect level (NOAEL) were 79- and 126-fold higher than in humans, for indacaterol and glycopyrronium respectively.
Indacaterol
Effects on the cardiovascular system attributable to the beta₂-agonistic properties of indacaterol included tachycardia, arrhythmias and myocardial lesions in dogs. Mild irritancy of the nasal cavity and larynx were seen in rodents. All these findings occurred at exposures sufficiently in excess of those anticipated in humans.

Although indacaterol did not affect general reproductive performance in a rat fertility study, a decrease in the number of pregnant F₁ offspring was observed in the peri- and post-developmental rat study at an exposure 14-fold higher than in humans treated with indacaterol. Indacaterol and its metabolites transferred rapidly into the milk of lactating rats. Indacaterol was not embryotoxic or teratogenic in rats or rabbits.

Genotoxicity studies did not reveal any mutagenic or clastogenic potential. Carcinogenicity was assessed in a two-year rat study and a six-month transgenic mouse study. Increased incidences of benign ovarian leiomyoma and focal hyperplasia of ovarian smooth muscle in rats were consistent with similar findings reported for other beta₂-adrenergic agonists. No evidence of carcinogenicity was seen in mice. Systemic exposures (AUC) in rats and mice at the no-observed-adverse-effect levels in these studies were at least 7- and 49-fold higher, respectively, than in humans treated with indacaterol once a day at the maximum recommended therapeutic dose.

Glycopyrronium
Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, repeated dose toxicity, genotoxicity, carcinogenic potential, toxicity to reproduction and development.

Effects attributable to the muscarinic receptor antagonist properties of glycopyrronium bromide included mild to moderate increases in heart rate in dogs, lens opacities in rats and, reversible changes associated with reduced glandular secretions in rats and dogs. Mild irritancy or adaptive changes in the respiratory tract were seen in rats. All these findings occurred at exposures sufficiently in excess of those anticipated in humans.

Glycopyrronium was not teratogenic in rats or rabbits following inhalation administration. Fertility and pre- and post-natal development were not affected in rats. Glycopyrronium bromide and its metabolites did not significantly cross the placental barrier of pregnant mice, rabbits and dogs. Glycopyrronium bromide (including its metabolites) was excreted into the milk of lactating rats and reached up to 10-fold higher concentrations in the milk than in the blood of the dam.

Genotoxicity studies did not reveal any mutagenic or clastogenic potential for glycopyrronium bromide. Carcinogenicity studies in transgenic mice using oral administration and in rats using inhalation administration revealed no evidence of carcinogenicity at systemic exposures (AUC) of approximately 53-fold higher in mice and 75-fold higher in rats than the maximum recommended dose once daily for humans.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Capsule content
Lactose monohydrate
Magnesium stearate

6.2 Incompatibilities

Not applicable.
6.3 Shelf life

18 months

Each inhaler should be disposed of after 30 days of use.

6.4 Special precautions for storage

Do not store above 25°C.

The capsules must always be stored in the original blister to protect from moisture and only removed immediately before use.

6.5 Nature and contents of container

Ultibro Breezhaler is a single-dose inhaler. Inhaler body and cap are made from acrylonitrile butadiene styrene, push buttons are made from methyl metacrylate acrylonitrile butadiene styrene. Needles and springs are made from stainless steel.

PA/Alu/PVC – Alu perforated unit-dose blister

Single pack containing 6x1, 12x1 or 30x1 hard capsules, together with one inhaler.

Multipacks containing 90 (3 packs of 30x1) hard capsules and 3 inhalers.
Multipacks containing 96 (4 packs of 24x1) hard capsules and 4 inhalers.
Multipacks containing 150 (25 packs of 6x1) hard capsules and 25 inhalers.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

The inhaler provided with each new prescription should be used. Each inhaler should be disposed of after 30 days of use.

Instructions for handling and use

How to use your inhaler

Pull off the cap.
Open inhaler:
Hold the base of the inhaler firmly and tilt the mouthpiece. This opens the inhaler.

Prepare capsule:
Separate one of the blisters from the blister card by tearing along the perforation. Take one blister and peel away the protective backing to expose the capsule.
Do not push capsule through foil.

Remove a capsule:
Capsules should always be stored in the blister and only removed immediately before use. With dry hands, remove capsule from the blister. Do not swallow the capsule.

Insert capsule:
Place the capsule into the capsule chamber.
Never place a capsule directly into the mouthpiece.
Close the inhaler:
Close the inhaler until you hear a “click”.

Pierce the capsule:
- Hold the inhaler upright with the mouthpiece pointing up.
- Pierce the capsule by firmly pressing together both side buttons at the same time. **Do this only once.**
- You should hear a “click” as the capsule is being pierced.

Release the side buttons fully.

Breathe out:
Before placing the mouthpiece in your mouth, breathe out fully.

**Do not blow into the mouthpiece.**

Inhale the medicine:
To breathe the medicine deeply into your airways:
- Hold the inhaler as shown in the picture. The side buttons should be facing left and right. Do not press the side buttons.
- Place the mouthpiece in your mouth and close your lips firmly around it.
- Breathe in rapidly but steadily, as deeply as you can. **Do not press the side buttons.**
Note:
As you breathe in through the inhaler, the capsule spins around in the chamber and you should hear a whirring noise. You will experience a sweet flavour as the medicine goes into your lungs.

If you do not hear a whirring noise:
The capsule may be stuck in the capsule chamber. If this happens:
- Open the inhaler and carefully loosen the capsule by tapping the base of the inhaler. 
  Do not press the side buttons.
- Inhale the medicine again by repeating steps 9 and 10.

Hold breath:
After you have inhaled the medicine:
- Hold your breath for at least 5-10 seconds or as long as you comfortably can while taking the inhaler out of your mouth.
- Then breathe out.
- Open the inhaler to see if any powder is left in the capsule.

If there is powder left in the capsule:
- Close the inhaler.
- Repeat steps 9 to 12.

Most people are able to empty the capsule with one or two inhalations.

Additional information
Some people occasionally cough briefly soon after inhaling a medicine. If you do, don’t worry. As long as the capsule is empty, you have received enough of your medicine.

After you have finished taking your daily dose of Ultibro Breezhaler:
- Open the mouthpiece again, and remove the empty capsule by tipping it out of the capsule chamber. Put the empty capsule in your household waste.
- Close the inhaler and replace the cap.

Do not store unpierced capsules in the inhaler.
7. **MARKETING AUTHORISATION HOLDER**

Novartis Europharm Limited  
Wimblehurst Road  
Horsham  
West Sussex, RH12 5AB  
United Kingdom

8. **MARKETING AUTHORISATION NUMBER(S)**

EU/1/13/862/001-006

9. **DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

10. **DATE OF REVISION OF THE TEXT**

Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu.
ANNEX II

A. MANUFACTURER RESPONSIBLE FOR BATCH RELEASE

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT
A. MANUFACTURER RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturer responsible for batch release

Novartis Pharma GmbH
Roonstraße 25
D-90429 Nuremberg
Germany

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to medical prescription.

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

- Periodic Safety Update Reports
  The marketing authorisation holder shall submit the first periodic safety update report for this product within 6 months following authorisation. Subsequently, the marketing authorisation holder shall submit periodic safety update reports for this product in accordance with the requirements set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and published on the European medicines web-portal.

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

- Risk Management Plan (RMP)
  The MAH shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the Marketing Authorisation and any agreed subsequent updates of the RMP.

  An updated RMP should be submitted:
  - At the request of the European Medicines Agency;
  - Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

  If the dates for submission of a PSUR and the update of a RMP coincide, they can be submitted at the same time.

- Obligation to conduct post-authorisation measures

  The MAH shall complete, within the stated timeframe, the below measures:

<table>
<thead>
<tr>
<th>Description</th>
<th>Due date</th>
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<tbody>
<tr>
<td>Multinational database cohort study to assess RMP specified safety outcomes in association with indacaterol/glycopyrronium bromide in Europe.</td>
<td>- Protocol submission: 3 months following EU Commission Decision - Final report: Q4 2018</td>
</tr>
</tbody>
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ANNEX III

LABELLING AND PACKAGE LEAFLET
A. LABELLING
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON OF UNIT PACK

1. NAME OF THE MEDICINAL PRODUCT

Ultibro Breezhaler 85 micrograms/43 micrograms inhalation powder, hard capsules
Indacaterol/glycopyrronium

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each capsule contains 110 microgram indacaterol and 50 microgram glycopyrronium. The amount of indacaterol and glycopyrronium inhaled is 85 micrograms (equivalent to 110 micrograms of indacaterol maleate) and 43 micrograms (equivalent to 54 micrograms of glycopyrronium bromide), respectively.

3. LIST OF EXCIPIENTS

Also contains: lactose and magnesium stearate.
See package leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

Inhalation powder, hard capsule

6 x 1 capsules + 1 inhaler
12 x 1 capsules + 1 inhaler
30 x 1 capsules + 1 inhaler

5. METHOD AND ROUTE(S) OF ADMINISTRATION

For use only with the inhaler provided in the pack.
Do not swallow capsules.
Lift here to open.
Read the package leaflet before use.
Inhalation use

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY
8. EXPIRY DATE

EXP
Each inhaler should be disposed of after 30 days of use.

9. SPECIAL STORAGE CONDITIONS

Do not store above 25°C.
Store the capsules in the original blister in order to protect from moisture and do not remove until immediately before use.

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Novartis Europharm Limited
Wimblehurst Road
Horsham
West Sussex, RH12 5AB
United Kingdom

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/13/862/001  6 capsules + 1 inhaler
EU/1/13/862/002  12 capsules + 1 inhaler
EU/1/13/862/003  30 capsules + 1 inhaler

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

Medicinal product subject to medical prescription.

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Ultibro Breezhaler
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON OF MULTIPACK (INCLUDING BLUE BOX)

1. NAME OF THE MEDICINAL PRODUCT

Ultibro Breezhaler 85 micrograms/43 micrograms inhalation powder, hard capsules
Indacaterol/glycopyrronium

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each capsule contains 110 microgram indacaterol and 50 microgram glycopyrronium. The amount of indacaterol and glycopyrronium inhaled is 85 micrograms (equivalent to 110 micrograms of indacaterol maleate) and 43 micrograms (equivalent to 54 micrograms of glycopyrronium bromide), respectively.

3. LIST OF EXCIPIENTS

Also contains: lactose and magnesium stearate.
See package leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

Inhalation powder, hard capsule

Multipack: 90 (3 packs of 30 x 1) hard capsules + 3 inhalers.
Multipack: 96 (4 packs of 24 x 1) hard capsules + 4 inhalers.
Multipack: 150 (25 packs of 6 x 1) hard capsules + 25 inhalers.

5. METHOD AND ROUTE(S) OF ADMINISTRATION

For use only with the inhaler provided in the pack.
Do not swallow capsules.
Read the package leaflet before use.
Inhalation use

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY
8. **EXPIRY DATE**

EXP
Each inhaler should be disposed of after 30 days of use.

9. **SPECIAL STORAGE CONDITIONS**

Do not store above 25°C.
Store the capsules in the original blister in order to protect from moisture and do not remove until immediately before use.

10. **SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

11. **NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Novartis Europharm Limited  
Wimblehurst Road  
Horsham  
West Sussex, RH12 5AB  
United Kingdom

12. **MARKETING AUTHORISATION NUMBER(S)**

<table>
<thead>
<tr>
<th>Marketing Authorisation Number(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU/1/13/862/004</td>
<td>Multipack comprising 3 packs (30 capsules + 1 inhaler)</td>
</tr>
<tr>
<td>EU/1/13/862/005</td>
<td>Multipack comprising 4 packs (24 capsules + 1 inhaler)</td>
</tr>
<tr>
<td>EU/1/13/862/006</td>
<td>Multipack comprising 25 packs (6 capsules + 1 inhaler)</td>
</tr>
</tbody>
</table>

13. **BATCH NUMBER**

Lot

14. **GENERAL CLASSIFICATION FOR SUPPLY**

Medicinal product subject to medical prescription.

15. **INSTRUCTIONS ON USE**

16. **INFORMATION IN BRAILLE**

Ultibro Breezhaler
PARTICULARS TO APPEAR ON THE OUTER PACKAGING
INTERMEDIATE CARTON OF MULTIPACK (WITHOUT BLUE BOX)

1. **NAME OF THE MEDICINAL PRODUCT**

Ultibro Breezhaler 85 micrograms/43 micrograms inhalation powder, hard capsules
Indacaterol/glycopyrronium

2. **STATEMENT OF ACTIVE SUBSTANCE(S)**

Each capsule contains 110 microgram indacaterol and 50 microgram glycopyrronium. The amount of indacaterol and glycopyrronium inhaled is 85 micrograms (equivalent to 110 micrograms of indacaterol maleate) and 43 micrograms (equivalent to 54 micrograms of glycopyrronium bromide), respectively.

3. **LIST OF EXCIPIENTS**

Also contains: lactose and magnesium stearate.
See package leaflet for further information.

4. **PHARMACEUTICAL FORM AND CONTENTS**

Inhalation powder, hard capsule

90 capsules + 3 inhalers. Component of a multipack. Not to be sold separately.
96 capsules + 4 inhalers. Component of a multipack. Not to be sold separately.

5. **METHOD AND ROUTE(S) OF ADMINISTRATION**

For use only with the inhaler provided in the pack.
Do not swallow capsules.
Lift here to open.
Read the package leaflet before use.
Inhalation use

6. **SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN**

Keep out of the sight and reach of children.

7. **OTHER SPECIAL WARNING(S), IF NECESSARY**
8. **EXPIRY DATE**

EXP
Each inhaler should be disposed of after 30 days of use.

9. **SPECIAL STORAGE CONDITIONS**

Do not store above 25°C.
Store the capsules in the original blister in order to protect from moisture and do not remove until immediately before use.

10. **SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

11. **NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Novartis Europharm Limited
Wimblehurst Road
Horsham
West Sussex, RH12 5AB
United Kingdom

12. **MARKETING AUTHORISATION NUMBER(S)**

EU/1/13/862/004 Multipack comprising 3 packs (30 capsules + 1 inhaler)
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13. **BATCH NUMBER**

Lot

14. **GENERAL CLASSIFICATION FOR SUPPLY**

Medicinal product subject to medical prescription.

15. **INSTRUCTIONS ON USE**

16. **INFORMATION IN BRAILLE**

Ultibro Breezhaler
## PARTICULARS TO APPEAR ON THE OUTER PACKAGING

INNER LID OF OUTER CARTON OF UNIT PACK AND OF INTERMEDIATE CARTON OF MULTIPACK

<table>
<thead>
<tr>
<th>1. OTHER</th>
</tr>
</thead>
</table>
| Do not push capsule through foil.  
  (1) Tear along perforations, (2) then peel back foil and (3) remove capsule.  
  Do not swallow capsules.  
  Read the leaflet before use. |
### MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

#### BLISTERS

<table>
<thead>
<tr>
<th>1. NAME OF THE MEDICINAL PRODUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultibro Breezhaler 85 mcg/43 mcg inhalation powder Indacaterol/glycopyrronium</td>
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<table>
<thead>
<tr>
<th>2. NAME OF THE MARKETING AUTHORISATION HOLDER</th>
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<tbody>
<tr>
<td>Novartis Europharm Limited</td>
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</table>

<table>
<thead>
<tr>
<th>3. EXPIRY DATE</th>
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<tbody>
<tr>
<td>EXP</td>
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<tr>
<th>4. BATCH NUMBER</th>
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<tr>
<td>Lot</td>
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<tr>
<th>5. OTHER</th>
</tr>
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<tbody>
<tr>
<td>Inhalation use only</td>
</tr>
</tbody>
</table>
B. PACKAGE LEAFLET
Package leaflet: Information for the user

Ultibro Breezhaler 85 micrograms/43 micrograms inhalation powder, hard capsules
Indacaterol/glycopyrronium

This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

Read all of this leaflet carefully before you start using this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, pharmacist or nurse.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

1. What Ultibro Breezhaler is and what it is used for
2. What you need to know before you use Ultibro Breezhaler
3. How to use Ultibro Breezhaler
4. Possible side effects
5. How to store Ultibro Breezhaler
6. Contents of the pack and other information

1. What Ultibro Breezhaler is and what it is used for

What Ultibro Breezhaler is
This medicine contains two active substances called indacaterol and glycopyrronium. These belong to a group of medicines called bronchodilators.

What Ultibro Breezhaler is used for
This medicine is used to make breathing easier for adult patients who have breathing difficulties due to a lung disease called chronic obstructive pulmonary disease (COPD). In COPD the muscles around the airways tighten. This makes breathing difficult. This medicine blocks the tightening of these muscles in the lungs, making it easier for air to get in and out of the lungs.

If you use this medicine once a day, it will help to reduce the effects of COPD on your everyday life.
2. What you need to know before you use Ultibro Breezhaler

Do not use Ultibro Breezhaler
- if you are allergic to indacaterol or glycopyrronium or any of the other ingredients of this medicine (listed in section 6).

Warnings and precautions
Talk to your doctor, pharmacist or nurse before using Ultibro Breezhaler if any of the following applies to you:
- you have asthma - this medicine should not be used as a treatment for asthma.
- you have heart problems.
- you have epilepsy.
- you have thyroid gland problems (thyrotoxicosis).
- you have diabetes.
- you are using any medicines for your lung disease which contain active substances similar (same class) to those in Ultibro Breezhaler (see section “Other medicines and Ultibro Breezhaler”).
- you have kidney problems.
- you have severe liver problems.
- you have an eye problem called narrow-angle glaucoma.
- you have difficulty passing urine.
If any of the above applies to you (or you are not sure), talk to your doctor, pharmacist or nurse before using this medicine.

During treatment with Ultibro Breezhaler
- Stop using this medicine and tell your doctor immediately if you experience any of the following:
  - eye pain or discomfort, temporary blurring of vision, visual halos or coloured images in association with red eyes – these may be signs of an acute attack of narrow-angle glaucoma.
  - difficulty breathing or swallowing, swelling of the tongue, lips or face, urticaria, skin rash – these may be signs of an allergic reaction.
  - tightness of the chest, coughing, wheezing or breathlessness immediately after using this medicine – these may be signs of a condition called paradoxical bronchospasm.
- Tell your doctor immediately if your COPD symptoms such as breathlessness, wheezing or cough do not improve or get worse.

Ultibro Breezhaler is used as an ongoing treatment for your COPD. Do not use this medicine to treat a sudden attack of breathlessness or wheezing.

Children and adolescents
Do not give this medicine to children or adolescents below the age of 18 years.

Other medicines and Ultibro Breezhaler
Tell your doctor or pharmacist if you are using, have recently used or might use any other medicines. In particular, tell your doctor or pharmacist if you are using:
- any medicines that may be similar to Ultibro Breezhaler (contain similar active substances).
- medicines called beta blockers that may be used for high blood pressure or other heart problems (such as propranolol), or for an eye problem called glaucoma (such as timolol).
- medicines that lower the amount of potassium in your blood. These include:
  - steroids (such as prednisolone),
  - diuretics (water tablets) used for high blood pressure (such as hydrochlorothiazide),
  - medicines for breathing problems (such as theophylline).
- medicines used in the treatment of depression (such as tricyclic antidepressants, monoamine oxidase inhibitors).
Pregnancy and breast-feeding
There are no data on the use of this medicine in pregnant women and it is not known whether the active substances of this medicine pass into human milk.

If you are pregnant or breastfeeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before using this medicine. You should not use Ultibro Breezhaler unless your doctor tells you to do so.

Driving and using machines
It is unlikely that this medicine will affect your ability to drive and use machines. However, this medicine may cause dizziness (see section 4 “Possible side effects”). If you feel dizzy while taking this medicine, do not drive or use machines.

Ultibro Breezhaler contains lactose
This medicine contains lactose (23.5 mg per capsule). If you have been told by your doctor that you have an intolerance to some sugars, contact your doctor before using this medicine.

Ask your doctor or pharmacist for advice before using any medicine.

3. How to use Ultibro Breezhaler

Always use this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

How much Ultibro Breezhaler to use
The usual dose is to inhale the content of one capsule each day. You only need to inhale once a day because the effect of this medicine lasts for 24 hours. Do not use more than your doctor tells you to use.

Elderly (age 75 years and over)
You can use this medicine if you are aged 75 years and over at the same dose as for other adults.

When to inhale Ultibro Breezhaler
Use this medicine at the same time each day. This will also help you to remember to use it. You can inhale Ultibro Breezhaler any time before or after food or drink.

How to inhale Ultibro Breezhaler
- In this pack, you will find an inhaler and capsules (in blisters) that contain the medicine as inhalation powder. Only use the capsules with the inhaler provided in this pack (Ultibro Breezhaler inhaler). The capsules should remain in the blister until you need to use them.
- Peel the backing away from the blister to open it - do not push the capsule through the foil.
- When you start a new pack, use the new Ultibro Breezhaler inhaler that is supplied in the pack.
- Dispose of each inhaler after 30 days of use.
- Do not swallow the capsules.
- Please read the instructions at the end of this leaflet for more information on how to use the inhaler.

If you use more Ultibro Breezhaler than you should
If you have inhaled too much of this medicine or if someone else accidentally uses your capsules, you must immediately either tell your doctor or go to the nearest emergency unit. Show the pack of Ultibro Breezhaler. Medical attention may be needed.
If you forget to use Ultibro Breezhaler
If you forget to inhale a dose at the usual time, inhale one as soon as possible that day. Then, inhale the next dose as usual the next day. Do not inhale more than one dose on the same day.

How long to continue your treatment with Ultibro Breezhaler
– Keep using Ultibro Breezhaler for as long as your doctor tells you.
– COPD is a long-term disease and you should use Ultibro Breezhaler every day and not only when you have breathing problems or other symptoms of COPD.
If you have questions about how long to continue your treatment with this medicine, talk to your doctor or pharmacist.

If you have further questions on the use of this medicine, ask your doctor, pharmacist or nurse.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Some side effects may be serious:

Uncommon (may affect up to 1 in 100 people)
• crushing chest pain with increased sweating – this may be a serious heart problem (ischaemic heart disease).
• difficulty breathing or swallowing, swelling of tongue, lips or face, urticaria, skin rash – these may be signs of an allergic reaction.
• difficulty breathing with wheezing or coughing.
• feeling tired or very thirsty, having an increased appetite without gaining weight and passing more urine than usual – these may be signs of high level of sugar in the blood (hyperglycaemia).
• eye pain or discomfort, temporary blurring of vision, visual halos or coloured images in association with red eyes – these may be signs of glaucoma.
• irregular heartbeat.

If you get any of these serious side effects, tell your doctor immediately.

Other side effects may include:

Very common (may affect more than 1 in 10 people)
• blocked nose, sneezing, cough, headache with or without fever - these may be signs of an upper respiratory tract infection.

Common (may affect up to 1 in 10 people)
• combination of sore throat and runny nose - these may be signs of nasopharyngitis.
• painful and frequent urination – these may be signs of a urinary tract infection called cystitis.
• feeling of pressure or pain in the cheeks and forehead – these may be signs of inflammation of the sinuses called sinusitis.
• runny or stuffy nose.
• dizziness.
• headache.
• cough.
• sore throat.
• upset stomach, indigestion.
• dental caries.
• pain that affects the muscles, ligaments, tendons, joints and bones.
• fever.
• chest pain.
• diarrhoea or stomach ache.
Uncommon
- difficulty sleeping.
- tingling or numbness.
- fast heart beat.
- palpitations – signs of abnormal heart beat.
- nose bleeds.
- dry mouth.
- itching or rash.
- muscle spasm.
- muscle pain, aches or tenderness.
- pain in arms or legs.
- difficulty and pain when passing urine – these may be signs of a bladder obstruction or urinary retention.
- swollen hands, ankles and feet.
- tiredness.

Reporting of side effects
If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Ultibro Breezhaler

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the carton and blister after “EXP”. The expiry date refers to the last day of that month.

Do not store above 25°C.

Store the capsules in the original blister in order to protect from moisture and do not remove until immediately before use.

Each inhaler should be disposed of after 30 days of use.

Do not use this medicine if you notice that the pack is damaged or shows signs of tampering.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Ultibro Breezhaler contains
- The active substances are indacaterol (as maleate) and glycopyrronium bromide. The delivered dose (the dose that leaves the mouthpiece of the inhaler) is equivalent to 85 micrograms of indacaterol (equivalent to 110 micrograms of indacaterol maleate) and 43 micrograms of glycopyrronium (equivalent to 54 micrograms of glycopyrronium bromide).
- The other ingredients of the inhalation powder are lactose monohydrate and magnesium stearate.
What Ultibro Breezhaler looks like and contents of the pack
In this pack, you will find a device called an inhaler together with capsules in blister strips.

The capsules have a transparent yellow cap and natural transparent body. They contain a white to almost white powder, with the product code “IGP110.50” printed in blue under two blue bars on the body and the company logo (logo) printed in black on the cap.

The following pack sizes are available:
Single pack containing 6x1, 12x1 or 30x1 hard capsules, together with one inhaler.

Multipacks containing 90 (3 packs of 30x1) hard capsules and 3 inhalers.
Multipacks containing 96 (4 packs of 24x1) hard capsules and 4 inhalers.
Multipacks containing 150 (25 packs of 6x1) hard capsules and 25 inhalers.

Not all pack sizes may be available in your country.

Marketing Authorisation Holder
Novartis Europharm Limited
Wimblehurst Road
Horsham
West Sussex, RH12 5AB
United Kingdom

Manufacturer
Novartis Pharma GmbH
Roonstraße 25
D-90429 Nuremberg
Germany

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

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Novartis Pharma N.V.
Tél/Tel: +32 2 246 16 11

Lietuva
Novartis Pharma Services Inc.
Tel: +370 5 269 16 50

България
Novartis Pharma Services Inc.
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Luxembourg/Luxemburg
Novartis Pharma N.V.
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Nederland
Novartis Pharma B.V.
Tel: +31 26 37 82 111

Deutschland
Novartis Pharma GmbH
Tel: +49 911 273 0
This leaflet was last revised in

Other sources of information
Detailed information on this medicine is available on the European Medicines Agency web site: http://www.ema.europa.eu.
Instructions for use of Ultibro Breezhaler inhaler

Please read the following instructions carefully to learn how to use this medicine.

- Only use the Ultibro Breezhaler inhaler contained in this pack. Do not use Ultibro Breezhaler capsules with any other inhaler, and do not use the Ultibro Breezhaler inhaler to take any other capsule medicine.
- Do not push the capsule through the foil to remove it from the blister.
- When you start a new pack, only use the new Ultibro Breezhaler inhaler that is supplied in the pack.
- Each inhaler should be disposed of after 30 days of use. Ask your pharmacist how to dispose of medicines and inhalers no longer required.
- Do not swallow the capsules. The powder in the capsules is for you to inhale.

Your Ultibro Breezhaler pack
One Ultibro Breezhaler pack contains:
- one Ultibro Breezhaler inhaler
- one or more blisters containing Ultibro Breezhaler capsules to be used in the inhaler.

How to use your inhaler

1. Pull off the cap.
**Open inhaler:**
Hold the base of the inhaler firmly and tilt the mouthpiece. This opens the inhaler.

**Prepare capsule:**
Separate one of the blisters from the blister card by tearing along the perforation. Take one blister and peel away the protective backing to expose the capsule.

Do not push capsule through foil.

**Remove a capsule:**
Capsules should always be stored in the blister and only removed immediately before use. With dry hands, remove capsule from the blister. Do not swallow the capsule.

**Insert capsule:**
Place the capsule into the capsule chamber.

Never place a capsule directly into the mouthpiece.
Close the inhaler:
Close the inhaler until you hear a “click”.

Pierce the capsule:
- Hold the inhaler upright with the mouthpiece pointing up.
- Pierce the capsule by firmly pressing together both side buttons at the same time. **Do this only once.**
- You should hear a “click” as the capsule is being pierced.

Release the side buttons fully.

Breathe out:
Before placing the mouthpiece in your mouth, breathe out fully.

Do not blow into the mouthpiece.

Inhale the medicine:
To breathe the medicine deeply into your airways:
- Hold the inhaler as shown in the picture. The side buttons should be facing left and right. Do not press the side buttons.
- Place the mouthpiece in your mouth and close your lips firmly around it.
- Breathe in rapidly but steadily, as deeply as you can. **Do not press the side buttons.**
Note:
As you breathe in through the inhaler, the capsule spins around in the chamber and you should hear a whirring noise. You will experience a sweet flavour as the medicine goes into your lungs.

If you do not hear a whirring noise:
The capsule may be stuck in the capsule chamber. If this happens:
- Open the inhaler and carefully loosen the capsule by tapping the base of the inhaler. **Do not press the side buttons.**
- Inhale the medicine again by repeating steps 9 and 10.

Hold breath:
After you have inhaled the medicine:
- **Hold your breath** for at least 5-10 seconds or as long as you comfortably can while taking the inhaler out of your mouth.
- Then breathe out.
- Open the inhaler to see if any powder is left in the capsule.

If there is powder left in the capsule:
- Close the inhaler.
- Repeat steps 9 to 12.

Most people are able to empty the capsule with one or two inhalations.

Additional information
Some people occasionally cough briefly soon after inhaling a medicine. If you do, don’t worry. As long as the capsule is empty, you have received enough of your medicine.

After you have finished taking your daily dose of Ultibro Breezhaler:
- Open the mouthpiece again, and remove the empty capsule by tipping it out of the capsule chamber. Put the empty capsule in your household waste.
- Close the inhaler and replace the cap.

Do not store unpierced capsules in the inhaler.
Additional information
Occasionally, very small pieces of the capsule can get past the screen and enter your mouth. If this happens, you may be able to feel these pieces on your tongue. It is not harmful if these pieces are swallowed or inhaled. The chances of the capsule shattering will be increased if the capsule is pierced more than once (step 7).

How to clean your inhaler
Never wash your inhaler with water. If you want to clean your inhaler, wipe the mouthpiece inside and outside with a clean, dry, lint-free cloth to remove any powder residue. Keep the inhaler dry.