#### VI.2 Elements for a Public Summary

#### VI.2.1 Overview of disease epidemiology<sup>3</sup>

Asthma is a common life-long chronic inflammatory disorder of the airways that affects adults and children of all ages. About 300 million people suffer from asthma globally and this number is estimated to increase to 400 million by 2025. The data from European Community Respiratory Health Survey and local health institutions suggest that the prevalence rate of asthma in adult across Europe ranges from 0.28% to 13%. Asthma is the leading serious chronic illness among children. In 50 percent of patients asthma starts during childhood. Asthma subsides in half of the children while reaching 13-14 years of age. Confidential

Asthma is a genetic disease, however, environmental factors (e.g allergen exposure and diet) play a significant role in shaping it up. In other words, tendency to get asthma is inherited, still it occurs only when one is exposed to trigger factors. Infection is predominant precipitating factor for asthma in children. Many a times it is termed as bronchitis instead of asthma. Female sex, smoking, earlier age of onset of disease, sensitization to household dust mites, and airway hyperresponsiveness are risk factors for persistence and relapse.

Inflammation of the sinuses (a feeling of tension or fullness in the nose, cheeks and behind the eyes, sometimes with a throbbing ache), rhinitis (sneezing, itchiness, blocked or runny nose), acid reflux, breathlessness during sleep, hormonal disorder and psychological disturbances are common conditions associated with asthma. These conditions may influence the diagnosis and assessment of the severity and control of asthma.

Asthma is not a communicable disease. It can not be transmitted from one person to another by any type of physical contact. Asthma may be fatal if not controlled properly.

# VI.2.2 Summary of treatment benefits

[Invented Name] contains two medicines: salmeterol and fluticasone propionate. Salmeterol belongs to a group of medicines called long-acting bronchodilators. Bronchodilators open up the airways in the lungs making it easier to breathe. The effects last for 12 hours or more. Fluticasone propionate belongs to a group of medicines called glucocorticosteroids. Glucocorticosteroids have an anti-inflammatory action and work by reducing swelling and irritation in the lungs. This medicine is prescribed to treat asthma and to help prevent breathing problems in adults.

A twelve month study (Gaining Optimal Asthma ControL, GOAL), in 3416 adult and adolescent patients with persistent asthma, compared the safety and efficacy of salmeterol/fluticasone propionate versus inhaled glucocorticosteroid (fluticasone propionate) alone, has demonstrated that well-Controlled asthma (defined as occasional symptom or occasional use of other drug or less than 80% predicted lung function and no night time awakening, no exacerbation and no side effects enforcing change in therapy) was achieved twice more rapidly with salmeterol/fluticasone propionate than with fluticasone propionate alone. Confidential

The usefulness of [Invented Name] has not been established in patients below 18 years of age. Hence, the product is not indicated for use in children, 12 years of age and younger or adolescents, 13 to 17 years of age.

# VI.2.4 Summary of safety concerns

### Important Identified Risks

Risks	What is known	Preventability
Pneumonia in	Pneumonia and bronchitis	Prescriber to pay special attention
COPD and asthma	(lung infection) have been	and instruct patients to report if they
patient populations	reported in people with chronic	notice increase in sputum (phlegm)
	obstructive pulmonary disease	production, change in sputum colour,
	(COPD) using	fever, chills, increased cough,
	salmeterol/fluticasone. COPD	increased breathing problems while
	is a long-term lung disease that	using the product.
	causes shortness of breath,	
	coughing and frequent chest	
	infections. The term COPD	
	includes conditions known as	
	chronic bronchitis and	
	emphysema.	
Respiratory related	Regarding the safety of regular	Regular salmeterol should be
events and death	long-acting $\beta 2$ agonist inhalers	discontinued if no symptomatic
	in asthma (medicinesd from	benefit is achieved and the advice not
	the same class as salmeterol,	to increase the dose of salmeterol
	one of the compounds of	during exacerbations should be made
	[Invented Name]), compared	clear. Salmeterol should not be used
	with placebo (dummy	as a substitute for inhaled
	medication, used in clinical	glucocorticosteroids, and adherence
	trials to compare side effects of	with inhaled steroids should be kept
	drugs), mortality increased	under review if separate inhalers are
	with regular salmeterol, but	used.6 Clinical decisions and
	this was not statistically	information for patients regarding

Confidential		I /fluticasone propionate, vers. 5.0
Risks	What is known significant. Non-fatal serious	Preventability regular use of salmeterol have to take
	adverse events increased with	into account the balance between
	salmeterol in comparison with	known symptomatic benefits of
	placebo; for every 188 people	salmeterol and the degree of
	treated with salmeterol for 28	uncertainty and concern associated
	weeks, one extra non-fatal	with its potential harmful effects. <sup>7</sup>
	event occurred in comparison	
	with placebo. No significant	
	differences were found	
	comparing regular salmeterol	
	with regular salbutamol. For	
	patients whose asthma is not	
	well-controlled on moderate	
	doses of inhaled	
	glucocorticosteroids,	
	additional salmeterol can give	
	symptomatic benefit but this	
	may be at the expense of an	
	increased risk of serious	
	adverse events and asthma	
	related mortality; risks which	
	are not clearly abolished by	
	inhaled glucocorticosteroids. <sup>6</sup>	
	In addition, no statistically	
	significant differences were	
	found in fatal or non-fatal	
	serious adverse events in trials	
	in which regular salmeterol was	
	randomly allocated with ICS, in	
	comparison to ICS alone at the	
	same dose. There were no	
	asthma-related deaths and few	

	I /fluticasone propionate, vers. 5.0
	Preventability
events. <sup>7</sup>	
The normal production of	The doctor should review the asthma
steroid hormones in the body	treatment regularly to ensure that
can be affected by inhaled	the patients uses the lowest dose of
glucocorticosteroids. This is	salmeterol/fluticasone to control
more likely if patients use high	asthma.
doses for a long time. This can	
cause Cushing's Syndrome and	
a rounded (moon shaped) face.	
The normal production of	The doctor should review the asthma
steroid hormones in the body	treatment regularly to ensure that
can be affected by inhaled	the patients uses the lowest dose of
glucocorticosteroids. This is	salmeterol/fluticasone to control
more likely if patients use high	asthma.
doses for a long time. This can	
cause children and adolescents	
to grow more slowly.	
Other medicines may increase	Patients taking antiviral and
the amount of salmeterol or	antifungal medicines (such as
fluticasone propionate in the	ritonavir, ketoconazole and
patients' body and thus	itraconazole) should inform the
increase the risk of	doctor if using these in the same time
experiencing side effects, or	with salmeterol/fluticasone
may make side effects worse.	
Signs of an allergic reaction:	Patients are advised to stop using the
could be worseness in	medicine and contact their doctor
breathing, wheeziness, cIn	immediately or the AE department of
addition, patients may	the nearest hospital and to use their
exoerience itching, a rash	fast-acting "reliever" inhaler to help
(hives) and swelling (usually of	
	What is knownasthma-related serious adverseevents.7The normal production ofsteroid hormones in the bodycan be affected by inhaledglucocorticosteroids. This ismore likely if patients use highdoses for a long time. This cancause Cushing's Syndrome anda rounded (moon shaped) face.The normal production ofsteroid hormones in the bodycan be affected by inhaledglucocorticosteroids. This ismore likely if patients use highdoses for a long time. This cancause children and adolescentsto grow more slowly.Other medicines may increasethe amount of salmeterol orfluticasone propionate in thepatients' body and thusincrease the risk ofexperiencing side effects, ormay make side effects worse.Signs of an allergic reaction:could be worseness inbreathing, wheeziness, clnaddition, patients may

RMP for salmetero	l /fluticasone propionate, vers. 5.0
What is known	Preventability
the face, lips, tongue, or	them breathing if they experience
throat), or they may suddenly	hypersensitivity reactions.
feel their heart beating very	
fast or feel faint and light	
headed (which may lead to	
collapse or loss of	
consciousness).	
Salmeterol/fluticasone may	Patients should contact their doctor
cause uneven, rapid and	immediately if they notice such
irregular heart beat (atrial	events.
fibrillation) or extra heart beats	
(arrhythmias) in some patients.	
Salmeterol/fluticasone may	Patients should contact their doctor
cause chest pain in some	immediately if they notice such
patients.	events.
	What is knownthe face, lips, tongue, orthroat), or they may suddenlyfeel their heart beating veryfast or feel faint and lightheaded (which may lead tocollapse or loss ofconsciousness).Salmeterol/fluticasone maycause uneven, rapid andirregular heart beat (atrialfibrillation) or extra heart beats(arrhythmias) in some patients.Salmeterol/fluticasone maycause chest pain in some

Important Potential Risks

Risks	What is known
Use of the drug outside its	Since the Innovator has an additional strength of this drug
indications in the leaflet (Off-	combination and its products are indicated in treatment of
label use in patients with	patients with Chronic Obstructive Pulmonary Disease
COPD)	(COPD), there is a risk for [Invented Name] to be prescribed
	for the same and experience increased number of colds,
	inflammation of the sinuses (a feeling of tension or fullness
	in the nose, cheeks and behind the eyes, sometimes with a
	throbbing ache), low levels of potassium in the blood
	(hypokaelemia), and an irregular heartbeat, muscle
	weakness and cramp. Patients should be aware of these
	undesirable effects and should tell the prescriber
	immediately if such reactions occur.
Use of the drug outside its	The safety and efficacy of [Invented Name] in children have
indications in the leaflet (Off	not been established. [Invented Name] is therefore not
label use in children and	

Confidential	RMP for salmeterol /fluticasone propionate, vers. 5.0
Risks	What is known
adolescents under 18 years of	recommended for use in children and adolescents under
age)	18 years of age.
Use of the drug outside its	The SmPC clearly states that "[Invented Name] is not
indications in the leaflet (Off	available in the lowest strength of this combination as
label use in adults for low	currently available on the market and therefore an
dose titration/ treatment)	alternative product would need to be prescribed."
Use of the drug outside its	Use of an AeroChamber Plus <sup>®</sup> spacer device with [Invented
indications in the leaflet (Off	Name] is recommended in patients who have, or are likely
label use with the Volumatic	to have, difficulties in coordinating actuation with
spacer)	inspiration. The use of a spacer device with a metered dose
	inhaler may increase drug delivery to the lungs and this
	could potentially lead to an increase in the risk of systemic
	adverse effects. Single dose pharmacokinetic data have
	demonstrated that the systemic exposure to salmeterol
	and fluticasone propionate may be increased as much as
	two-fold when the AeroChamber Plus® spacer device is
	used with a fixed-dose combination of salmeterol and
	fluticasone propionate as compared with the Volumatic
	spacer device. The prescriber should explain to the patient
	that other spacing devices should not be used with
	[Invented Name] and that they should not switch from one
	spacer device to another. Additionally, patients should be
	instructed in the proper use and care of their inhaler and
	spacer and their technique checked to ensure optimum
	delivery of the inhaled drug to the lungs.
	Patients who find it difficult to use the inhaler should be
	instructed by either the doctor or other healthcare
	provider how to use a spacing device such as the
	AeroChamber Plus <sup>®</sup> and how to care for it. Patients who
	are using a spacer device with the inhaler should not stop
	using it without talking to the doctor or nurse first and they

Confidential	RMP for salmeterol /fluticasone propionate, vers. 5.0
Risks	What is known
	should not use other spacing devices or switch from one
	spacer device to another.
	In case the patient stops using a spacer device the doctor
	may need to change the dose of medicine required to
	control asthma.
Use in pregnancy	No malformative or foeto/neonatal toxicity of have been
	observed with the use of salmeterol and fluticasone
	propionate. However, animal studies have shown harm in
	foetus. Therefore administration of [Invented Name] to
	pregnant women should only be considered if the
	expected benefit to the mother is greater than any possible
	risk to the foetus. The lowest effective dose of fluticasone
	propionate needed to maintain adequate asthma control
	should be used in the treatment of pregnant women.
	Patients should ask their doctor or pharmacist for advice
	before taking this medicine if they are pregnant or breast-
	feeding, think they may be pregnant or are planning to
	have a baby.

# **Missing information**

Risks	What is known
Use in breastfeeding	It is unknown whether salmeterol and fluticasone
	propionate and its metabolites are excreted in human milk.
	Studies have shown that salmeterol and fluticasone
	propionate, and their metabolites, are excreted into the
	milk of lactating rats. A risk to breastfed newborns/infants
	cannot be excluded. A decision must be made whether to
	discontinue breast-feeding or to discontinue [Invented
	Name] therapy taking into account the benefit of breast-
	feeding for the child and the benefit of therapy for the
	woman.

Confidential	RMP for salmeterol /fluticasone propionate, vers. 5.0
Risks	What is known
Use in patients with hepatic impairment	The SmPC clearly states that there are no data available for use of [Invented Name] in patients with hepatic impairment.

# VI.2.5 Summary of risk minimisation measures by safety concern

All medicines have a Summary of Product Characteristics (SmPC) which provides physicians, pharmacists and other health care professionals with details on how to use the medicine, the risks and recommendations for minimising them. An abbreviated version of this in lay language is provided in the form of the package leaflet. The measures in these documents are known as routine risk minimisation measures. This medicine has no additional risk minimisation measures.

# VI.2.6 Planned post authorisation development

Consideration is being given to the development of the low strength product.

### VI.2.7 Summary of changes to the Risk Management Plan over time

This is the updated RMP (version 5.0) for the hybrid application of Sirdupla (salmeterol/fluticasone propionate) 25 microgram/125 microgram and Sirdupla 25 microgram/250 microgram per metered dose pressurised inhalation, suspension, by Mylan, updated in line with safety concerns in Seretide Diskus RMP, as requested during assessment of the repeat use application for procedure UK/H/5607 in the EU.