Part VI: Summary of activities in the risk management plan by product

VI.1 Elements for summary tables in the EPAR

VI.1.1 Summary table of Safety concerns

Summary of safety concerns	
Important identified risks	Hypersensitivity reactions, including
	anaphylactic reactions
	Angina pectoris
	• Serious respiratory-related events and
	death
	Cardiac arrhythmias
	Paradoxical bronchospasm
	• Systemic effects of inhaled
	corticosteroid (Cushing's syndrome,
	Cushingoid features, adrenal
	suppression, decrease in bone mineral
	density, cataract and glaucoma and
	more rarely, a range of psychological or
	behavioural effects including
	psychomotor hyperactivity, sleep
	disorders, anxiety, depression or
	aggression)
	• Pneumonia in patients with COPD
Important potential risks	Adrenal suppression
	• Off-label use in children
	• Off-label use in COPD
Important missing information	• Patients with hepatic impairment
	• It is unknown whether salmeterol and
	fluticasone propionate/metabolites are
	excreted in human milk.
	• Information on children aged 4 to 11
	years

VI.1.2 Table of on-going and planned additional PhV studies/activities in the

Pharmacovigilance Plan

Not Applicable

VI.1.3 Summary of Post authorisation efficacy development plan

Not Applicable

Safety concern	Routine risk minimisation	Additional risk minimisation
	measures	measures
Hypersensitivity reactions	Hypersensitivity reactions	None
including anaphylactic	with the manifestations:	
reactions	Cutaneous hypersensitivity	
	reactions, angioedema (mainly	
	facial and oropharyngeal	
	oedema), respiratory	
	symptoms (bronchospasm)	
	and anaphylactic reactions	
	including anaphylactic shock	
	(Frequency: Rare; <1/10,000).	
	Respiratory symptoms	
	(dyspnoea)	
	Respiratory symptoms	
	(bronchospasm) occur with	
	uncommon frequency	
	$(\geq 1/1000 \text{ and } < 1/100).$	
	Risk of hypersensitivity	
	reactions has been mentioned	
	in section 4.3	
	(contraindications) and section	
	4.8 (undesirable effects). As	
	per section 4.3 of the SPC,	
	Salmeterol / Fluticasone	
	propionate pressurised	
	inhalation, suspension is	
	contraindicated in patients	
	with hypersensitivity to any of	
	the active substances or to the	
	excipients.	
Angina pectoris	Risk of angina pectoris has	None

VI.1.4 Summary table of risk minimisation measures

Safety concern	Routine risk minimisation	Additional risk minimisation
	measures	measures
	been mentioned in section 4.8	
	(undesirable effects) of the	
	SPC. Occurrence of angina	
	pectoris is uncommon	
	$(\geq 1/1000 \text{ and } < 1/100)$. As per	
	section 4.4 (Special warnings	
	and precautions) Salmeterol /	
	fluticasone propionate should	
	be used with caution in	
	patients with severe	
	cardiovascular disorders, heart	
	rhythm abnormalities, diabetes	
	mellitus, thyrotoxicosis,	
	uncorrected hypokalaemia or	
	patients predisposed to low	
	levels of serum potassium.	
Serious respiratory-related	Possibility of serious	None
events and death	respiratory-related adverse	
	events and exacerbations	
	during treatment with	
	Salmeterol / Fluticasone	
	propionate pressurised	
	inhalation, suspension has	
	been identified in section 4.4	
	of the SPC. Patients should be	
	asked to continue treatment	
	but to seek medical advice if	
	asthma symptoms remain	
	uncontrolled or worsen after	
	initiation on Salmeterol /	
	Fluticasone propionate	

Safety concern	Routine risk minimisation	Additional risk minimisation
	measures	measures
	pressurised inhalation	
	suspension.	
Cardiac arrhythmias	Rarely, Salmeterol and	None
	Fluticasone propionate	
	pressurised inhalation	
	suspension may cause cardiac	
	arrhythmias e.g.	
	supraventricular tachycardia,	
	extrasystoles and atrial	
	fibrillation, and a mild	
	transient reduction in serum	
	potassium at high therapeutic	
	doses. Caution for use of	
	Salmeterol / Fluticasone	
	propionate pressurised	
	inhalation, suspension in	
	patients with severe	
	cardiovascular disorders, heart	
	rhythm abnormalities, diabetes	
	mellitus, thyrotoxicosis,	
	uncorrected hypokalaemia or	
	patients predisposed to low	
	levels of serum potassium has	
	been advised in section 4.4 of	
	the SPC.	
Paradoxical bronchospasm	There have been rare	None
	(>1/10000) occurrence of	
	paradoxical bronchospasm	
	with the use of Salmeterol /	
	Fluticasone propionate	
	pressurised inhalation	

Safety concern	Routine risk minimisation	Additional risk minimisation
	measures	measures
	suspension. Immediate	
	discontinuation of Salmeterol /	
	Fluticasone propionate	
	pressurised inhalation	
	suspension has been advised in	
	section 4.4 of SPC.	
	Assessment of the patient and	
	use of alternative therapy has	
	been advised in section 4.4 of	
	SPC.	
Systemic effects of inhaled	Systemic effects may occur	None
corticosteroid (Cushing's	with any inhaled	
syndrome, Cushingoid	corticosteroid, particularly at	
features, adrenal suppression,	high doses prescribed for long	
decrease in bone mineral	periods. Risk of systemic	
density, cataract and glaucoma	effects including Cushing's	
and more rarely, a range of	syndrome, Cushingoid	
psychological or behavioural	features, adrenal suppression,	
effects including psychomotor	decrease in bone mineral	
hyperactivity, sleep disorders,	density, cataract and glaucoma	
anxiety, depression or	and more rarely, a range of	
aggression)	psychological or behavioural	
	effects including psychomotor	
	hyperactivity, sleep disorders,	
	anxiety, depression or	
	aggression has been	
	documented in section 4.4 of	
	the SPC. Regular review of the	
	treatment, monitoring the	
	patient and use of lowest	
	effective dose had been	

Safety concern	Routine risk minimisation	Additional risk minimisation
	measures	measures
	advised in section 4.4 of the	
	SPC.	
Pneumonia in patients with	Increased reporting of	None
COPD	pneumonia was observed in a	
	3 year study in patients with	
	Chronic Obstructive	
	Pulmonary Disease (COPD)	
	receiving Seretide compared	
	with placebo. In a 3 year	
	COPD study, older patients,	
	patients with a lower body	
	mass index (<25kg/m2) and	
	patients with very severe	
	disease (FEV1<30%	
	predicted) were at greatest risk	
	of developing pneumonia	
	regardless of treatment. The	
	clinical features of such	
	infections and exacerbation	
	frequently overlap, hence	
	physicians are advised to	
	remain vigilant for the	
	possible development of	
	pneumonia and other lower	
	respiratory tract infections in	
	patients with COPD, in section	
	4.4 of SPC. Also if a patient	
	with severe COPD has	
	experienced pneumonia, re-	
	evaluation of the treatment	
	with Salmeterol / Fluticasone	

Safety concern	Routine risk minimisation	Additional risk minimisation
	measures	measures
	pressurised inhalation	
	suspension has been suggested	
	in section 4.4 of the SPC.	

VI.2 Elements for a Public Summary

VI.2.1 Overview of disease epidemiology

According to survey developed by World health Organization (WHO) in 2002-2003, a total of 178,215 individuals from 70 countries aged 18 to 45 years were studied. The global prevalence rates of doctor diagnosed asthma, clinical/treated asthma and wheezing in adults were 4.3%, 4.5%, and 8.6% respectively, and varied by as much as 21-fold amongst the 70 countries. Australia reported the highest rate of doctor diagnosed, clinical/treated asthma, and wheezing (21.0%, 21.5%, and 27.4%). Amongst those with clinical/treated asthma, almost 24% were current smokers, half reported wheezing, and 20% had never been treated for asthma. This study provided a global estimate of the burden of asthma in adults, and suggests that asthma continues to be a major public health concern worldwide. The high prevalence of smoking remains a major barrier to combating the global burden of asthma.²

VI.2.2 Summary of treatment benefits

Asthma:

Salmeterol and Fluticasone propionate pressurised inhalation suspension is indicated in the regular treatment of asthma where use of a combination product (long-acting beta-2-agonist and inhaled corticosteroid) is appropriate that is, patients not adequately controlled with inhaled corticosteroids and 'as needed' inhaled short acting beta-2-agonist or patients already adequately controlled on both inhaled corticosteroid and long-acting beta-2-agonist.

Long-term asthma control medications, generally taken daily, are the cornerstone of asthma treatment. These medications keep asthma under control on a day-to-day basis and make it less likely that the patient may have an asthma attack. Types of long-term control medications include:

Inhaled corticosteroids: These medications include fluticasone, budesonide, mometasone, ciclesonide, flunisolide, beclomethasone and others. One may need to use these medications for

several days to weeks before they reach their maximum benefit. Unlike oral corticosteroids, these corticosteroid medications have a relatively low risk of side effects and are generally safe for long-term use.

Leukotriene modifiers: These oral medications — including montelukast, zafirlukast and zileuton — help relieve asthma symptoms for up to 24 hours. In rare cases, these medications have been linked to psychological reactions, such as agitation, aggression, hallucinations, depression and suicidal thinking. The patients should seek medical advice right away for any unusual reaction.

Long-acting beta agonists: These inhaled medications, which include salmeterol and formoterol. These medicines open the airways and reduce inflammation. Some research shows that they may increase the risk of a severe asthma attack, so take them only in combination with an inhaled corticosteroid. Because these drugs can mask asthma deterioration, don't use them for an acute asthma attack

Combination inhalers: These medications — such as fluticasone-salmeterol, budesonideformoterol and mometasone-formoterol — contain a long-acting beta agonist along with a corticosteroid. Because these combination inhalers contain long-acting beta agonists, they may increase the risk of having a severe asthma attack.

Theophylline: Theophylline is a daily pill that helps keep the airways open (bronchodilator) by relaxing the muscles around the airways. It's not used as often now as in past years.

VI.2.3 Unknowns relating to treatment benefits

There are no data available for use of Salmeterol and Fluticasone propionate pressurised inhalation suspension in patients with hepatic impairment.

There are no data in humans regarding effect of Salmeterol and Fluticasone propionate pressurised inhalation suspension on fertility.

It is unknown whether salmeterol and fluticasone propionate/metabolites are excreted in human milk.

No studies of the effect on the ability to drive and use machines have been performed.

There is no information available regarding safety and efficacy of Salmeterol and fluticasone propionate in children aged 4 to 11 years.

VI.2.4 Summary of safety concerns

Important identified risks

Risk	What is known	Preventability
Allergic reactions including	Allergic reactions including	Yes. Salmeterol and
whole body allergic reaction	whole body reactions	Fluticasone propionate
(Hypersensitivity reactions	(anaphylactic reactions) can	pressurised inhalation,
including anaphylactic	occur at rare frequency	suspension is contraindicated
reactions)	(<1/10,000).	in patients with
		hypersensitivity to any of the
		active substances or to the
		excipients.
Chest pain with tightness and	Salmeterol and fluticasone	Yes. As per section 4.4
discomfort (Angina pectoris)	propionate can cause heart	(Special warnings and
	related disorders.	precautions) of the SPC,
		Salmeterol and fluticasone
		propionate should be used
		with caution in patients with
		severe heart conditions, heart
		rhythm abnormalities, diabetes
		mellitus, overactive thyroid
		gland (thyrotoxicosis),
		uncorrected low blood
		potassium (hypokalaemia) or
		patients predisposed to low
		levels of serum potassium.
Serious asthma- related	Serious asthma related	Yes. Patients should be asked
problems and death (Serious	problems and worsening of	to continue treatment but to
asthma-related events and	asthma can occur with the use	seek medical advice if asthma
death)	of Salmeterol/ Fluticasone	remains uncontrolled or
	propionate pressurised	worsens after initiation on
	inhalation, suspension.	Salmeterol and Fluticasone
		propionate pressurised
		inhalation suspension.

Risk	What is known	Preventability
Irregular heartbeat (Cardiac	Salmeterol and Fluticasone	Yes. Salmeterol and
arrhythmias)	propionate pressurised	Fluticasone propionate
	inhalation suspension may	pressurised inhalation,
	cause irregular heartbeat.	suspension should be used
		with caution in patients with
		severe heart problems,
		abnormal heartbeat, type 2
		diabetes, thyrotoxicosis, low
		blood potassium levels.
Breathing difficulty caused by	Breathing difficulty caused by	Yes. If the patient experiences
narrowing of airways	narrowing of airways may	wheezing, then immediate
(Paradoxical bronchospasm)	occur with the use of	medical attention should be
	Salmeterol and Fluticasone	sought. Salmeterol and
	propionate pressurised	Fluticasone propionate
	inhalation suspension may	pressurised inhalation
	occur with an immediate	suspension should be
	increase in wheezing after	immediately discontinued and
	dosing.	appropriate treatment should
		be initiated.
Effects of corticosteroids on	Effects of corticosteroids on	Yes. Treatment with
throughout the body [Systemic	throughout the body may	Salmeterol and Fluticasone
effects of inhaled	occur with long term use of	propionate pressurised
corticosteroid (Cushing's	Salmeterol and Fluticasone	inhalation suspension should
syndrome, Cushingoid	propionate pressurised	be reviewed on regular basis.
features, adrenal suppression,	inhalation suspension. Such	The patient should be treated
decrease in bone mineral	effects include but not limited	with lowest effective dose.
density, cataract and glaucoma	to Cushing's syndrome,	The doctor should monitor the
and more rarely, a range of	adrenal suppression, decreased	patient for appearance of any
psychological or behavioural	amount of minerals in bones	eye disorders, bone disorders
effects including psychomotor	(decrease in bone mineral	or behavioural changes.
hyperactivity, sleep disorders,	density), cataract, damage the	
anxiety, depression or	eye's optic nerve (glaucoma),	

Risk	What is known	Preventability
aggression)]	sleep disorders, anxiety,	
	depression or aggression.	
Inflammatory condition of the	Inflammatory condition of the	Yes. The doctor should
lung in patients with COPD	lung in patients with COPD	carefully monitor the COPD
(Pneumonia in patients with	(Pneumonia in patients with	patient for presence of any
COPD)	COPD) can occur commonly	respiratory infections since the
	(Up to 1 in 100 but less than 1	feature of infections and
	in 10 patients).	worsening frequently overlap.
		If patient with COPD
		experiences pneumonia with
		the use of Salmeterol and
		Fluticasone propionate
		pressurised inhalation
		suspension, then the physician
		should re-evaluate the therapy
		with Salmeterol and
		Fluticasone propionate
		pressurised inhalation
		suspension.

Important potential risks

Risk	What is known (Including reason why it is considered a
	potential risk)
A condition in which the	Whole body effects such as a condition in which the adrenal
adrenal glands do not produce	glands do not produce adequate amounts of steroid hormones
adequate amounts of steroid	(adrenal suppression) may occur with the use of Salmeterol and
hormones (Adrenal	Fluticasone propionate pressurised inhalation suspension.
suppression)	
Off-label use in children	Salmeterol and Fluticasone propionate pressurised inhalation,
	suspension 25 micrograms /125 micrograms and 25 micrograms
	/250 micrograms is indicated for patients above 12 years of age.

Risk	What is known (Including reason why it is considered a
	potential risk)
	As suitable strength for children below 12 years is not available,
	there is a potential for off label use in children
Off-label use in COPD	Salmeterol and Fluticasone propionate pressurised inhalation
	suspension is indicated in the regular treatment of asthma.
	However, there is a potential for off label use in treatment of
	COPD.

Important missing information

Risk	What is known
Patients with hepatic	Fluticasone propionate has high systemic clearance mediated by
impairment	cytochrome P450 3A4 in the gut and liver. Hepatic impairment
	may affect the clearance of fluticasone propionate. However,
	there are no data available for use of Salmeterol and Fluticasone
	propionate pressurised inhalation suspension in patients with
	hepatic impairment.
It is unknown whether	Studies have shown that salmeterol and fluticasone propionate,
salmeterol and fluticasone	and their metabolites, are excreted into the milk of lactating
propionate/metabolites are	rats. It is unknown whether salmeterol and fluticasone
excreted in human milk	propionate/metabolites are excreted in human milk.
Information on children aged 4	Information on safety and efficacy of salmeterol and fluticasone
to 11 years	propionate in children aged 4 to 11 years is not available.

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

These additional risk minimisation measures are for the following risks:

Safety concern in lay terms (medical term)

Risk minimisation measure(s): Not applicable	
Ob	ojective and rationale: Not applicable
•	Summary description of main additional risk minimisation measures: Not applicable

VI.2.6 Planned post authorisation development plan

Not Applicable

VI.2.7 Summary of changes to the Risk Management Plan over time Not Applicable