VI.2 ELEMENTS FOR A PUBLIC SUMMARY

VI.2.1 OVERVIEW OF DISEASE EPIDEMIOLOGY

Ocular hypertension is 10-15 times more likely to occur than primary open-angle glaucoma, a common form of glaucoma. That means that out of every 100 people older than 40 years about 10 will have pressures higher than 21 mm Hg, but only 1 of those people will have glaucoma. In approximately 3% of people with ocular hypertension, vision loss can result.

Between 3 and 6 million people are at risk for developing Primary Open Angle Glaucoma (POAG) due to elevated intraocular pressure (IOP).

Some studies have found that the average intraocular pressure in blacks is higher than in whites. In addition, average intraocular pressure in women (especially after menopause) is higher than in men. Studies also show that men with ocular hypertension may be at a higher risk for glaucomatous damage.

Glaucoma is a group of eye diseases traditionally characterized by elevated intraocular pressure (IO P). **Open-angle glaucoma** is the most common type of glaucoma among populations of European o r African descent, whereas angle-closure glaucoma is more common among populations of Asian de scent. It is the second leading cause of blindness in the world (after cataracts) and the leading cause of blindness among African-Americans if left untreated.

Glaucoma affects one in 200 people aged 50 and younger, and one in 10 over the age of 80. The Wo rld Health Organization estimated that in 2010 glaucoma accounted for 2% of visual impairment and 8% of global blindness. If the condition is detected early enough, it is possible to arrest the develop ment or slow the progression with medical and surgical means.

VI.2.2 SUMMARY OF TREATMENT BENEFITS

[Bimatoprost/timolol] contains two different active substances (bimatoprost and timolol) that both reduce pressure in the eye. Bimatoprost belongs to a group of medicines called prostamides, a prostaglandin analogue. Timolol belongs to a group of medicines called beta-blockers. [Bimatoprost/timolol] is prescribed in adult patients with open-angle glaucoma or ocular hypertension when other eye drops containing beta-blockers or prostaglandin analogues have not worked sufficiently on their own.

The majority of patients with glaucoma or ocular hypertension eventually require adjunctive therapy to control their IOP. [Bimatoprost/timolol] combines two active substances in a single formulation for the reduction of IOP by the differential mechanisms of action and complementary pharmacology of the active ingredients. The fixed combination may lead to increased compliance since it is administered more conveniently than the individual products administered adjunctively.

Although the development of minor adverse effects, such as iris and eyelid hyperpigmentation, eyelash changes, conjunctival hyperemia, and iritis and macular edema (rarely occurred), which are common to prostaglandin's therapy (latanoprost, travoprost, tafluprost, bimatoprost, or isopropyl unoprostone), the efficiency and safety of bimatoprost have been extensively demonstrated.

VI.2.3 UNKNOWNS RELATING TO TREATMENT BENEFITS

The safety and efficacy of bimatoprost/timolol in children aged 0 to 18 years has not been established. Therefore, its use is not recommended in these patients.

In addition, bimatoprost/timolol has not been studied in patients with hepatic or renal impairment. Therefore caution should be used in treating such patients.

VI.2.4 SUMMARY OF SAFETY CONCERNS

Important identified risks

Important identified risks			
Risk	What is known	Preventability	
Safety concern in lay language (medical term)	Brief summary in lay language	Whether risk can be minimised or mitigated, and how	
Change in the colour of iris (the coloured part of the eye) (Iris hyperpigmentation)	Some of these changes may be permanent, and may lead to differences in appearance between the eyes when only one eye is treated. Increased iris pigmentation is likely to be permanent. The pigmentation change is due to increased melanin content in the melanocytes rather than to an increase in the number of melanocytes. The long term effects of increased iris pigmentation are not known.	Treatment with the lowest therapeutically effective dose and for the shortest recommended period. Patients should consult an ophthalmologist however, these changes are solely cosmetic in nature, and have not posed a health risk in any form.	
Damage to the cornea (Punctate keratitis)	Superficial punctate keratitis is an eye disorder caused by death of small groups of cells on the surface of the cornea (the clear layer in front of the iris and pupil). Damage to the cornea called "punctuate keratitis" may affect up to 1 in 10 people treated with bimatoprost/timolol.	Patients can usually carry on taking the drops, unless the effects are serious. If patients are worried, they should talk to a doctor or pharmacist. Monitoring of patients is required with frequent of prolonged use specifically in patients with dry eyes or where the cornea is compromised.	
(Cystoid macular oedema)	The macula is a very small area at the center of the retina - a thin layer of light-sensitive tissue that lines the back of the eye. Macular edema develops when blood vessels in the retina are leaking fluids. The macula does not function properly when it is swollen. Vision loss may be mild to severe, but in many cases, peripheral (side) vision remains.	You should tell your doctor if you have now or have had in the past swelling of the retina within the eye leading to worsening vision (known risk factors for macular oedema), for example, cataract surgery.	

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Asthma and asthma	Asthma is a chronic disease of the	You should not use this
symptoms	airways that makes breathing difficult.	medicine if you have now or
	With asthma, there is inflammation of	have had in past respiratory
(Acute asthma and	the air passages that results in a	problems such as asthma,
asthmatic symptoms)	temporary narrowing of the airways	severe chronic obstructive
	that carry oxygen to the lungs. This	bronchitis (severe lung
	results in asthma symptoms, including	disease which may cause
	coughing, wheezing, shortness of	wheeziness, difficulty in
	breath, and chest tightness. If it is	breathing and/ or long-
	severe, asthma can result in decreased	standing cough). You should
	activity and inability to talk. It is not	talk to your doctor before
	known how common is for patients to	using this medicine if you
	develop asthma while on treatment	have now or have had in the
	with bimatoprost/timolol.	past breathing problems,
		asthma or chronic
		obstructive pulmonary
		disease.
Slow heart beat	Bradycardia is a slow or irregular heart	You should not use this
	rhythm, usually fewer than 60 beats	medicine if you have heart
(Bradycardia)	per minute. At this rate, the heart is not	problems such as low heart
	able to pump enough oxygen-rich	rate, heart block, or heart
	blood to your body during normal	failure. You should talk to
	activity or exercise. As a result, you	your doctor before using this
	may feel dizzy or have chronic lack of	medicine if you have now or
	energy, shortness of breath, or even	have had in the past
	fainting spells.	disturbances of heart rate
		such as slow heart beat.

Important potential risks		
Risk	What is known (Including reason why it is considered a	
	potential risk)	
Cardiovascular events (angina,	Cardiac and vascular disorders are adverse events related to	
hypotension, congestive heart	systemic absorption of the drug. These adverse events may	
failure)	occurred uncommonly (may affect up to 1 in 100 people). These	
	effects should be considered in elderly and in patients with	
	cardiac, respiratory or neurological disease.	
Choroidal detachment	Choroidal detachment is the separation of the choroid from the	
	sclera of the eye as a result of leakage of fluid from the vessels	
	of the choroid. It occurs when pressure inside the eyeball is very	
	low, usually after trauma or intraocular surgery.	
Eye infection or injury	Bacterial keratitis is an infection of the cornea (the clear, round	
	dome covering the eye's iris and pupil) that causes pain, reduced	
	vision, light sensitivity and tearing or discharge from the eye. It	
	is an important cause of visual loss. The aetiology is diverse:	
	bacterial, fungal, viral, protozoal or it may be polymicrobial in	
	nature. Prescribed topical ocular medications can become	
	contaminated and result in bacterial keratitis especially gram-	

	negative infection with Pseudomonas, Serratia and Proteus		
	species.		
	Improperly handled of ocular solution can become contaminated		
	by common bacteria. In addition eye traumatism by erroneous		
	handling of the container may result in eye infection. Patient		
	should follows specific instructions for use included in the PIL		
	of the product		
Medication error	Like other topically applied ophthalmic drugs, bimatoprost is		
	absorbed into the systemic circulation. This may cause		
	undesirable effects as seen with systemically absorbed		
	ophthalmics. Incidence of systemic ADRs after topical		
	ophthalmic administration is lower than for systemic		
	administration.		

Missing information		
Risk	What is known	
Exposure in paediatric patients	The safety and efficacy of bimatoprost/timolol in children aged	
	0 to 18 years has not been established. No data are available.	
Exposure inpregnancy and	There are no adequate data from the use of the	
lactation	bimatoprost/timolol fixed combination in pregnant women.	
	[bimatoprost/timolol] should not be used during pregnancy	
	unless clearly necessary. Animal studies with bimatoprost have	
	shown reproductive toxicity. Animal studies with timolol have	
	snown reproductive toxicity at doses significantly nigher than	
	would be used in clinical practice.	
	Beta-blockers are excreted in breast milk. However, at therapeutic doses of timolol in eye drops it is not likely that sufficient amounts would be present in breast milk to produce clinical symptoms of beta-blockade in the infant. It is not known if bimatoprost is excreted in human breast milk but it is excreted in the milk of the lactating rat. [Bimatoprost/timolol] should not	
	be used by breast-feeding women.	

VI.2.5 SUMMARY OF RISK MINIMISATION MEASURES BY SAFETY CONCERN

All medicines have a Summary of Product Characteristics (SmPC) which provides physicians, phar macists and other health care professionals with details on how to use the medicine, the risks and rec ommendations for minimising them. An abbreviated version of this in lay language is provided in th e form of the package leaflet (PL). The measures in these documents are known as routine risk mini misation measures.

This medicine has no additional risk minimisation measures.

VI.2.6 PLANNED POST AUTHORISATION DEVELOPMENT PLAN

Not applicable.

VI.2.7 SUMMARY OF CHANGES TO THE RISK MANAGEMENT PLAN OVER TIME

Version	Date	Safety concerns	Change
1.0	23.09.2016	Important identified risks	Initial version
		 Hyperpigmentation 	
		Macular oedema	
		Choroidal detachment	
		 Hypoglycaemia/diabetes 	
		• Cardiac and vascular	
		disorders	
		 Respiratory disorders Corneal toxicity dry 	
		• Comean toxicity – dry	
		• Co-administration with	
		adrenaline	
		• Hypersensitivity to any	
		allergen	
		• Masking	
		Important potential risks	
		Increase in intraocular pressure	
		• Off-label use (cosmetic use for	
		stimulation of eyelash growth)	
		Missing information	
		• Use during pregnancy and	
		lactation	
1.0	04 11 2016	• Faediatric use	Change of the description
1.0	04.11.2010		of the ATC code as per CZ
			comment during validation
			phase
1.0	29.05.2017	Important identified risks	RMP update as per day70
		• Iris hyperpigmentation	RMS and day100 CMS
		Punctate keratitis	Assessment report
		Cystoid macular	of safety concerns of the
		oedema	originator)
		• Acute asthma and	Update of SmPC/PIL as
		asthmatic symptoms	per recommendation of
		• Bradycardia Important potential visits	procedure
		Cardiovascular events	PSUSA/00002961/201511.
		(angina, hypotension	referral for multi-dose
		atrial	Novelia container
		fibrillation/arrhythmias,	(inclusion of eve infection
		congestive heart failure)	or injury and medication
		Choroidal detachment	

		• Drug interaction with	error as potential risk)
		calcium channel	
		blockers, guanethidine,	
		beta-adrenergic	
		blocking agents,	
		parasympathomimetics, anti-	
		arrhythmics, digitalis glycosides,	
		mydriatic agents, and CYP2D6	
		inhibitors	
		Missing information	
		• Exposure in paediatric	
		patients	
		• Exposure in pregnancy	
		and lactation	
1.0	07.09.2017	Important identified risks	RMP update as per day120
		Iris hyperpigmentation	RMS Assessment report
		Punctuate keratitis	(alignment with summary
		Cystoid macular oedema	of safety concerns of the
		Acute asthma and asthmatic	originator)
		symptoms	Alignment of RMP as per
		Bradycardia	updated of SmPC/PIL at
		Important potential risks	day 120 overall
		Cardiovascular events (angina,	assessment report from
		hypotension, congestive heart	RMS.
		failure)	
		Choroidal detachment	
		Eye infection or injury	
		Medication error	
		Missing information	
		Exposure in paediatric patients	
		Exposure in pregnancy and lactation	
1.0	24.10.2017		Day 195 – SmPc/PIL
			update