VI.2 Elements for a Public Summary

VI.2.1 Overview of disease epidemiology

Glaucoma (eye disease) is a condition which can affect sight, usually due to buildup of pressure within the eye. If left untreated it can result in blindness. It is a leading cause of blindness worldwide. In 2013, the total number of people (aged 40-80 years) with glaucoma was estimated to be 64.3 million (2).

Recent studies have also concluded there are around 6.77 million people (aged 40-80) in Europe alone with glaucoma. Projections for the years 2020 and 2040 indicate there will be 7.12 and 7.85 people (aged 40-80 years) in Europe alone with glaucoma. Studies also show that men are more likely to develop glaucoma than women (2).

Risk factors for glaucoma include increased eye pressure, advancing age, non-Caucasian ethnicity and family history of glaucoma. The most common forms of glaucoma are age-related. If detected early enough, disease progression can be slowed with drug and/or surgical treatment (1).

VI.2.2 Summary of treatment benefits

Glaucoma cannot be cured and damage caused by the disease cannot be reversed (15). However, adequate treatment can protect subjects at high risk of the disease or patients with early signs of glaucoma from severe visual impairment and blindness. The assessment that increased eye pressure is a major risk factor for glaucoma development is validated by controlled clinical trials in which substantial benefit of eye pressure-lowering treatment for patients suspected to have glaucoma was reported before initial damage was seen (3, 18, 19).

Three studies have been performed which assessed the eye-pressure-lowering-efficacy of travoprost/timolol. In these studies, patients with open-angle glaucoma (type of glaucoma where the pressure in the eye slowly rises and the cornea adapts without swelling) or ocular hypertension (elevated eye pressure) who took travoprost/timolol between 3 and 12 months experienced decreases in eye pressure (17).

These studies were conducted for DuoTrav by Alcon Laboratories Ltd and not by Mylan.

VI.2.3 Unknowns relating to treatment benefits

There is no experience of travoprost/timolol in inflammatory ocular conditions; nor in neovascular, angle-closure, narrow-angle or congenital glaucoma and only limited experience in thyroid eye disease, in open-angle glaucoma of pseudophakic patients and in pigmentary or pseudoexfoliative glaucoma. The safety and efficacy in paediatric patients has not yet been established.

VI.2.4 Summary of safety concerns

Important identified risks

Risk	What is known	Preventability
Build-up of fluid in the area of	Eye swelling due to build-up of	By providing adequate
the retina that is responsible for	fluid in the area of the retina	information to prescribers and
sharp vision	that is responsible for sharp	patients in the product labelling
(Macular oedema)	vision has been reported in	
	patients using	
	travoprost/timolol.	
Hyperpigmentation	Travoprost/timolol may	By providing adequate
	change the colour of the iris	information to prescribers and
	(the coloured part of the eye).	patients in the product labelling
	This change may be	
	permanent.	
Hypertrichoses	Travoprost/timolol may	By providing adequate
	change the	information to prescribers and
		patients in the product labelling
Iris and uveal disorders	Travoprost/timolol may	By providing adequate
	change the colour of the iris	information to prescribers and
	(the coloured part of the eye)	patients in the product labelling
	and may cause blurred vision,	
	abnormal vision, iris	
	inflammation, eye	
	inflammation, sensitivity to	
	light, reduced vision or broken	
	blood vessel in the eye.	
Cardiac and vascular disorders	Travoprost/timolol may cause	By providing adequate
	increased or decreased blood	information to prescribers and
	pressure, shortness of breath,	patients in the product labelling
	decreased heart rate irregular	
	heart rate, heart failure, chest	
	pain, stroke, fainting, increased	

	heart rate, palpitations, slow	
	heart rate, palpitations, oedema	
	(fluid build-up), changes in the	
	rhythm or speed of the	
	heartbeat, congestive heart	
	failure (heart disease with	
	shortness of breath and	
	swelling of the feet and legs	
	due to fluid build-up), a type of	
	heart rhythm disorder, heart	
	attack low blood pressure,	
	Raynaud's phenomenon, cold	
	hands and feet, reduced blood	
	supply to the brain.	
Respiratory disorders	Travoprost/timolol may cause	By providing adequate
	shortness of breath, difficulty	information to prescribers and
	breathing, cough, throat	patients in the product labelling
	irritation, discomfort inside of	
	nose or asthma.	

Important potential risks

Risk	What is known (Including reason why it is considered a
	potential risk)
Ocular and skin melanoma	Because travoprost/timolol may permanently change the colour
	of the iris (the coloured part of the eye) and/or of the surrounding
	skin, by increasing the number of melanosomes (pigment
	granules) in melanocytes (cells that give the iris colour), before
	treatment is instituted, patients must be informed of the
	possibility of a permanent change in eye colour and that the long-
	term effects on the eye and surrounding skin and eyelids are
	currently unknown. This risk can be mitigated by providing
	adequate information to prescribers and patients in the product
	labelling.

Risk	What is known (Including reason why it is considered a
	potential risk)
Corneal damage due to long-	Corneal damage may occur during treatment with
term use of preserved eye drops	travoprost/timolol due to the presence of preservative
	benzalkonium chloride. In order to prevent this, other substances
	have been developed and are currently undergoing pre-clinical
	trials, such as travoprost/timolol preserved with polyquaternium-
	1, for which it has been observed that it induced minimal ocular
	surface toxicity, compared to eye drops preserved with
	benzalkonium chloride. This risk can be mitigated by providing
	adequate information to prescribers and patients in the product
	labelling.
Use during pregnancy and	Travoprost/timolol should not be used during pregnancy and
lactation	lactation as it may negatively affect the foetus. Patients should
	inform their doctor if they are planning to become pregnant or if
	they get pregnant during treatment. Pregnant patients should be
	made aware that travoprost may be absorbed through the skin so
	they avoid this from happening. This risk can be mitigated by
	providing adequate information to prescribers and patients in the
	product labelling.

Missing information

Risk	What is known	
Potential interactions	travoprost/timolol may interact with other drugs such as drugs	
	used to induce anaesthesia or drugs used in treatment of	
	hypertension, arrhythmias or other heart disorders, such as oral	
	calcium channel blockers, beta-adrenergic blocking agents,	
	antiarrhythmic drugs (including amiodarone), digitalis	
	glycosides, parasympathomimetics, guanethidine. In patients	
	taking clonidine for hypertension, blood pressure can increase	
	dramatically when clonidine treatment is ceased. Patients	
	taking treatment for arrhythmias or depression may experience	
	increased side effects of the latter due to drug interactions	

Risk	What is known	
	between them and travoprost/timolol. In order to minimize the	
	risk of occurrence of adverse events due to drug interactions,	
	patients are advised to inform the prescriber if they suffer from any disease or take any kind of treatment. This risk can be mitigated by providing adequate information to prescribers and	
	patients in the product labelling.	
Safety and efficacy in children	The safety and efficacy of travoprost/timolol in children and	
	adolescents below the age of 18 years have not been	
	established. No data is available.	

VI.2.5 Summary of risk minimisation measures by safety concern

All medicines have a Summary of Product Characteristics (SPC) 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 plan

No studies planned.

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

Not applicable.