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

## PART VI: SUMMARY OF ACTIVITIES IN THE RISK MANAGEMENT PLAN BY PRODUCT

## VI1. Elements for summary tables in the EPAR

## VI1.1. Summary Table of Safety Concerns

Summary of Safety Concerns			
Important identified risks	<ul> <li>Priapism</li> <li>Hypotension/increased hypotensive effect</li> </ul>		
Important potential risks	<ul> <li>Non-arteritic anterior ischemic optic neuropathy (NAION)</li> <li>Sudden hearing loss</li> </ul>		
Missing information	<ul> <li>Characterisation of adverse events in elderly patients (≥65 years)</li> </ul>		

### **VI.1.2** Table of on-going and planned studies in the Post-authorisation Pharmacovigilance Development Plan

None

## VI.1.3 Summary of Post authorisation efficacy development plan

Not applicable

### VI1.4. Summary Table of Risk Minimisation Measures

Safety Concern	Routine Risk Minimisation Measures	Additional Risk Minimisation Measures
Important identified risk	S	
Priapism	Text in SmPC section 4.4 Special warnings and precautions for use and 4.8 Undesirable effects	None
Hypotension/increased hypotensive effect	Text in SmPC section 4.3 Contraindications, 4.4 Special warnings and precautions for use, 4.5 Interaction with other medicinal products and other forms of interaction and 4.8 Undesirable effects	None
Important potential risks	<u> </u>	

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Tadalafil

Non-arteritic anterior	Text in SmPC Section 4.3 None		
ischemic optic	Contraindications, 4.4 Special		
neuropathy (NAION)	warnings and precautions for		
	use and 4.8 Undesirable effects		
		N	
Sudden hearing loss	Text in SmPC Section 4.8	None	
	Undesirable effects		
Missing information			
Characterisation of	Text in SmPC Section 4.8	None	
adverse events in	Undesirable effects and 5.2		
elderly patients (≥65	Pharmacokinetic properties		
years)			

#### VI2. Elements for a public summary

### VI2.1. Overview of Disease Epidemiology

Erectile dysfunction (ED) is the inability to attain and maintain an erection sufficient for satisfactory sexual performance. Although a benign disorder, it can have a significant impact on the quality of life of sufferers, partners and families. It is important also to consider the physical and psychosocial health of the sufferer. Patients should be properly assessed and investigated before embarking on treatment. The incidence and prevalence is high worldwide. The first large-scale community study - the Massachusetts Male Ageing Study - showed that 52% of men (aged 40 to 70 years) were affected at some time (mild 17%; moderate 25%; severe 10%). A Cologne study reported that ED was the most prevalent of the male sexual dysfunctions (prevalence age 30 to 80 years) at 19.2% as compared to 31% for all types of male sexual dysfunction. This study equates to about 26 new cases annually per 1,000 men. Whichever study, country or methodology is used, this is clearly a significant condition likely to present regularly to a GP on average between 1 and 4 times per month. Significant media interest has led more men to seek help for ED. There is in all studies a steep age-related increase. The Cologne study found that of men aged 30-80 years, the prevalence rose from 2.3% at age 30 to 53.4% at age 80. Only about 10-20% of patients with erectile dysfunction are believed to have a solely psychogenic cause but psychogenic factors are often present in those who are diagnosed as having a physical cause.<sup>1,2</sup>

### VI2.2. Summary of Treatment Benefits

Tadalafil Aurovitas, Tadalafil Glob, Tadalafil Arrow or Tadalafil is indicated for the following

• Treatment of erectile dysfunction in adult males.

<sup>&</sup>lt;sup>1</sup> Guidelines on Male Sexual Dysfunction: Erectile dysfunction and premature ejaculation, European Association of Urology (2013)

<sup>2</sup> San Martin C, Simonelli C, Sonksen J, et al; Perceptions and opinions of men and women on a man's sexual confidence and its relationship to ED: results of the European Sexual Confidence Survey. Int J Impot Res. 2012 Nov-Dec; 24(6):234-41. doi: 10.1038/ijir.2012.23. Epub 2012 Jun 21

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• In order for tadalafil to be effective, sexual stimulation is required.

Tadalafil is not indicated for use by women

## VI2.3. Unknowns Relating to Treatment Benefits

There are no unknowns relating to treatment benefits that the MAH is aware of.

## VI2.4. Summary of Safety Concerns

Risk	What is KnownPreventability	
Priapism	Patients who experience erections	Patient should inform
	lasting 4 hours or more should be	their doctor if they have
	instructed to seek immediate medical	any blood disorder
	assistance. If priapism is not treated	cancer of the bone marro
	immediately, penile tissue damage	or cancer of the bloc
	and permanent loss of potency may	cells. The product shou
	result.	be used with caution l
	Tadalafil should be used with caution	these patients.
	in patients with anatomical	
	deformation of the penis (such as	Physician supervision an
	angulation, cavernosal fibrosis or	care.
	Peyronie's disease), or in patients	
	who have conditions which may	
	predispose them to priapism (such as	
	sickle cell anaemia, multiple	
	myeloma or leukaemia).	
Hypotension/increased	In clinical studies, tadalafil was	Patients should infor
hypotensive effect	shown to augment the hypotensive	their doctor if they a
	effects of nitrates. This is thought to	taking any form of nitra
	result from the combined effects of	medicines, as tadala
	nitrates and tadalafil on the nitric	should not be used
	oxide/cGMP pathway. Therefore,	patients who are on the
	administration of tadalafil to patients	medications.
	who are using any form of organic	
	nitrate is contraindicated	Patients should al
		inform their doctor
	In patients who are taking alpha1	pharmacist if they a
	blockers, concomitant administration	taking any medicatio
	of tadalafil may lead to symptomatic	used to treat high blo
	hypotension in some patients. The	pressure. A possible do
	combination of tadalafil and	adjustment of the
	doxazosin is not recommended.	medicines may
		required.
		Physician supervision an
		care.

### Important potential risks

Risk	What is Known	Preventability
Non-arteritic anterior ischemic optic neuropathy (NAION)	Tadalafil is contraindicated in patients who have loss of vision in one eye because of	e

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	non-arteritic anterior ischaemic optic	<b>.</b>
	neuropathy (NAION), regardless of	Patients should not take
	whether this episode was in connection or	tadalafil if they have ever
	not with previous PDE5 inhibitor	*
	exposure.	in one eye, regardless of
	Visual defects and cases of NAION have been reported in connection with	whether this was
	the intake of tadalafil and other PDE5	experienced whilst taking
	inhibitors. The patient should be	tadalafil or medicines of
	advised that in case of sudden visual defect, he should stop taking Tadalafil	the same family, or not.
	and consult a physician immediately	Physician supervision and care.
Sudden hearing loss	In rare cases, the use of tadalafil may lead to sudden hearing loss.	Drug should be discontinued immediately
		Patients should contact their doctor immediately if they experience sudden decrease or loss of hearing while taking tadalafil.
		tadalalli.

#### Missing information

Risk	What is known
Characterisation of adverse events in elderly patients (≥65 years)	Data in patients over 65 years of age receiving tadalafil in clinical trials, either for the treatment of erectile dysfunction or the treatment of benign prostatic hyperplasia, are limited. In clinical trials with tadalafil 5mg taken once a day for the treatment of benign prostatic hyperplasia, dizziness and diarrhoea were reported more frequently in patients over 75 years of age
	Healthy elderly subjects (65 years or over), had a lower oral clearance of tadalafil, resulting in 25 % higher exposure (AUC) relative to healthy subjects aged 19 to 45 years. This effect of age is not clinically significant and does not warrant a dose adjustment

# VI2.5. Summary of Additional Risk Minimisation Measures by Safety Concern

Not applicable.

## VI2.6. Planned Post Authorisation Development Plan

Not applicable.

### Studies Which are a Condition of the Marketing Authorisation

None.

### VI2.7. Summary of Changes to the Risk Management Plan over time

# Major Changes to the Risk Management Plan over time

Version	Date	Safety Concerns	Comment
NA	NA	NA	NA