VI.2. Elements for a Public Summary

VI.2.1. Overview of Disease Epidemiology

Heart failure (HF) is a condition in which the heart can't pump enough blood to meet the body's needs for blood volume and oxygenation. Heart failure can be mild at first (you may experience no symptoms), but it can be severe or even life-threatening. Common symptoms of heart failure include feeling tired, having trouble breathing and leg swelling.

Multiple studies have reported on how often this disease occurs in the general population. A UK-based study has found that 2.3% of patients from a general population over 45 years of age were diagnosed with HF. In the US the number of people with HF has risen with an estimated 5 million patients affected (2.2% of the total US population).

Surveys throughout the world show that the risk increases in the elderly, who are 10 times more likely to suffer from HF (10%–20%), compared with the general population (1%–2%). It has also been estimated that more than 75% of patients with HF in the US are older than 65. Data from the US have also indicated that HF prevalence is 25% higher for African-Americans than estimates for the Caucasian population, with 40% higher mortality.

Healthy dietary and lifestyle changes like reducing salt intake, smoking cessation and staying active may help to make you feel better and reduce the symptoms of heart failure although drug treatment and even surgery may be needed depending on the severity of your condition.

VI.2.2. Summary of Treatment Benefits

HF is a disease that can be treated best, if it is caught early, and there are many good options for treatment. The symptoms above should not be ignored. It is important to know that, by the time the symptoms above appear, it means that your body on its own cannot help your heart. You need help from your doctor. If you have these symptoms, your doctor can help you understand how your heart is affected, and how to keep it working well. If the disease is left untreated, HF is very hard on your heart, and may lead to premature death.

Eplerenone is a medication used to help the body get rid of excess salt and fluid, while also helping the body hold onto potassium. It can be used with other medications to help manage the disease, and decrease the need for hospitalisation in some patients with HF.

VI.2.3. Unknowns Relating to Treatment Benefits

No major differences in risks or benefits of eplerenone were seen across any subgroup studied, including age, gender, or racial group.

VI.2.4. Summary of Safety Concerns

Table 62. Important Identified Risks

Risk	What is Known	Preventability
High blood potassium	Approximately 1% to 10% of patients taking	Physician supervision and
(Hyperkalaemia)	eplerenone will experience high blood potassium.	care.

Table 62. Important Identified Risks

Risk	What is Known	Preventability
	Symptoms of high blood potassium may show up	
	as nausea, slow, weak or irregular pulse, or sudden	Regular medical
	collapse with a slow heartbeat. The risk of high	examinations and periodic
	blood potassium may increase in elderly patents,	blood potassium tests. Your
	patients with renal impairment, and patients with	doctor may adjust your dose
	diabetes. Some other drugs also increase the risk	of eplerenone based on the
	of high blood potassium, such as drugs which help	results of periodic blood
	you to excrete excessive body fluid, (potassium-	potassium tests, as described
	sparing diuretics) or "salt tablets" (potassium	in the package insert.
		in the package insert.
	supplements), and eplerenone should not be taken	
	while being treated with these drugs. Eplerenone	
	should not be taken if you are being treated with	
	two kinds of medicine together, used to treat	
	certain heart conditions or hypertension (so-called	
	angiotensin converting enzyme (ACE) inhibitors	
	and an angiotensin receptor blocker (ARB),	
	because, when you are being treated with these 2	
	kinds of drugs together, they also increase the risk	
	of hyperkalaemia. Some other classes of medicine	
	such as the immunosuppressants cyclosporin and	
	tacrolimus, and trimethoprim, and non-steroidal	
	anti-inflammatory drugs (NSAIDs) should be	
	avoided while you are being treated with	
	eplerenone, and blood potassium tested closely, if	
	they are taken.	
	they are taken.	
	Blood tests for serum potassium should be ordered	
	by your doctor before starting eplerenone therapy,	
	then within the first week and at one month after	
	the start of treatment, and after any change in dose.	
	The blood tests should continue to be done	
	periodically after that, as long as you take	
	eplerenone.	
Kidney problems	Decrease in the health and function of the kidney	Physician supervision and
	(kidney problems) occurs in 1% to 10% of patients	care.
	taking eplerenone.	
		Regular medical
	Symptoms of kidney problems may show up as	examinations with specific
	headaches, nausea, trouble sleeping, tiredness fluid	kidney laboratory tests durin
	swelling (oedema).	the course of eplerenone
		therapy (eg, periodic
	The risk of kidney problems may be greater for	monitoring of serum
	patients with kidney problems, elderly patients,	creatinine levels in high-risk
	and patients on other specific drugs which may be	patients, such as elderly
	harmful to the kidney. For this reason, certain	
		patients, patients on certain
	classes of immunosuppressants such as	medications (see package
	cyclosporin and tacrolimus, and NSAIDs should	insert), and patients with
	be avoided with eplerenone, and kidney function	kidney impairment).
	tested closely, if they are taken with eplerenone.	
	Blood tests for potassium should be done	
	periodically in patients with kidney impairment.	

Table 62. Important Identified Risks

Risk	What is Known	Preventability
	Patients with moderate kidney impairment should	
	take a reduced dosage of eplerenone, as described	
	in the package insert, and patients with severe	
	renal impairment should not take eplerenone.	

Table 63. Important Potential Risks

Risk	What is Known	
None Identified	There is no important potential risk currently foreseen in eplerenone	
	treatment.	

Table 64. Missing Information

Risk	What is Known
There is limited information	Safety and effectiveness in children and adolescents have not been
on use of eplerenone in	established.
children and adolescents	
There is limited information	Eplerenone has not been studied in patients who are pregnant or breast
on use of eplerenone in	feeding. It is unknown if eplerenone is excreted in human breast milk after
patients who are pregnant or	oral administration. The safety of eplerenone in these patients has not been
breast feeding. Exposure to	established. Because of the unknown potential for adverse effects on the
eplerenone could potentially	breast fed infant, a decision should be made whether to discontinue breast-
be detrimental to the foetus	feeding or discontinue the drug, taking into account the importance of the
or nursing infant.	drug to the mother.
	Animal studies did not indicate direct or indirect adverse effects on
	pregnancy, foetal development birth, or postnatal development. Animal
	studies show that eplerenone and/or metabolites are present in rat breast milk
	and that rat pups exposed to the drug this way developed normally.

VI.2.5. Summary of Risk Minimisation Measures by Safety Concern

This medicine has no additional risk minimisation measures.

VI.2.6. Planned Post-Authorisation Development Plan

No post-authorisation studies are planned.

VI.2.7. Summary of Changes to the Risk Management Plan Over Time

Major changes to the Risk Management Plan over time are shown in Table 65.

Table 65. Major Changes to the Risk Management Plan Over Time

Version	Date	Safety Concerns	Comment
1.0	18 March 2011	Identified Risks:	
		Myocardial Infarction	
		Hyperkalaemia	
		Renal Impairment	
		Pruritus	
		Potential Risk:	
		Rash	
2.0	08 August 2016	Identified Risks:	Myocardial infarction and Pruritus were
		Hyperkalaemia	removed as Identified Risks;
		Renal Impairment	Rash was removed as a Potential Risk.
		_	Other risks remain unchanged.
2.1	02 February 2017	Identified Risks:	As per the RMS request, use in patients
	•	Hyperkalaemia	with severe renal impairment (CrCl <30
		Renal Impairment	ml/min), use in patients with severe
		-	hepatic impairment (Child-Pugh Class C),
			and use in patients with serum potassium
			level >5.0 mmol/L removed as missing
			information.
			As per a CMS request, use in children and
			adolescents added as missing information.