Summary of the risk management plan (RMP) for Saxenda (liraglutide)

This is a summary of the risk management plan (RMP) for Saxenda, which details the measures to be taken in order to ensure that Saxenda is used as safely as possible. For more information on RMP summaries, see <u>here</u>.

This RMP summary should be read in conjunction with the EPAR summary and the product information for Saxenda, which can be found on <u>Saxenda's EPAR page</u>.

Overview of disease epidemiology

Saxenda is a medicine used along with diet and exercise to treat obesity, which is defined as a BMI (body-mass index, a measure of weight relative to height) of 30 or more; it can also be given to overweight patients (with BMI between 27 and 30) who have weight-related complications. Obesity can significantly reduce mental and physical health and quality of life, and can be associated with wide-ranging complications including high blood pressure, high blood sugar levels (diabetes), coronary heart disease, stroke, some types of cancer and sleep apnoea (frequent interruption of breathing during sleep).

About 25% of the world population was estimated to be overweight in 2005. Within Europe, it is anticipated that up to 2 out of 3 people will be obese or overweight within the next 10 years. The most prominent reason for obesity is excess calorie intake combined with reduced physical activity.

Summary of treatment benefits

Saxenda contains the active substance liraglutide, a 'glucagon-like peptide-1 (GLP-1) receptor agonist'. Liraglutide is already authorised in the EU as Victoza at lower doses (up to 1.8 mg per day) for the treatment of type 2 diabetes.

Saxenda has been shown to be effective at reducing body weight in 5 main studies involving over 5,800 obese or overweight patients, in which Saxenda was compared with placebo (a dummy treatment). Patients in the studies were given the medicine as part of a weight loss programme involving counselling and advice on diet and exercise.

Looking at the results of the 5 studies together, Saxenda at a daily dose of 3 mg led to a 7.5% reduction in weight, compared with a 2.3% reduction in patients taking placebo. Patients treated with Saxenda had a continuous decrease in weight during the first 40 weeks of treatment, after which the weight loss achieved was maintained. Weight loss was more pronounced in women than in men.

Unknowns relating to treatment benefits

Treatment benefits have not been established for the following groups of patients, and therefore use of Saxenda in these patients is not recommended:

patients over 75 years of age and below 18 years of age;

- patients with liver problems;
- patients with severe kidney problems;
- patients treated with other medicines for weight management;
- patients with obesity due to eating or hormonal disorders or to treatment with other medicines that may cause weight gain.

The benefit of using Saxenda for a very long time is also not known.

Summary of safety concerns

Important identified risks

Risk	What is known	Preventability
Low blood sugar levels when used in combination with diabetes medicines	When patients with type 2 diabetes are treated with both Saxenda and a type of diabetes medicine called a sulphonylurea, there is an increased risk of developing low blood sugar levels. This is because Saxenda has also an effect in controlling blood sugar levels. The use of Saxenda in diabetic patients	When Saxenda is used with a sulphonylurea, the doctor may consider reducing the dose of the sulphonylurea to lower the risk of low blood sugar levels.
	also taking insulin has not been evaluated.	
Side effects related to the stomach and gut (such as vomiting and diarrhoea)	Side effects such as nausea (feeling sick), diarrhoea, constipation, heartburn and vomiting are very common when taking Saxenda (they occur in more than 1 patient in 10). These reactions usually disappear after a few weeks of treatment.	To limit these effects, when starting treatment the dose of Saxenda should be slowly increased over 4 weeks.
Loss of fluids (dehydration) and kidney problems (altered renal function)	When starting treatment with Saxenda, the patient may feel sick (and may not eat and drink as much as usual), or may be sick or get diarrhoea (as mentioned above). This can lead to loss of fluids, which in turn may affect how well the kidneys work.	In case of vomiting, nausea and diarrhoea, it is important to drink plenty of fluids.
Allergic reactions	Few cases of allergic reactions have been reported with Saxenda. Symptoms include skin rash, low blood pressure, palpitations and difficulty breathing.	Saxenda should not be used in patients who are allergic to liraglutide or to any of the other ingredients of the medicine. If an allergic reaction is suspected treatment with Saxenda should be stopped and not restarted.
Gallstones and inflammation of the gallbladder	Gallstones have been reported in up to 1 patient in 10 taking Saxenda. Rapid weight loss increases the risk of developing gallstones. The risk is higher	Doctors should inform patients of the signs and symptoms of acute gallstone disease. In case of recurring attacks of severe stomach pain, it is important to

Risk	What is known	Preventability
	for women than men, and also increases	consult a doctor.
	with age.	
Inflammation of	Use of GLP-1 receptor agonists such as	Doctors should inform patients of the
the pancreas	Saxenda has been associated with	signs and symptoms of acute
(pancreatitis)	pancreatitis (inflammation of the	pancreatitis. Patients who have a severe
	pancreas, a small organ in the digestive	stomach ache which does not go away,
	system). Few cases of acute pancreatitis	should contact their doctor as this could
	have been reported with Saxenda.	be a sign of pancreatitis.
		If pancreatitis is suspected, Saxenda and
		other potentially suspected medicines
		should be discontinued.
		If acute pancreatitis is confirmed,
		Saxenda should not be restarted.
		Caution should be exercised in patients
		with a history of pancreatitis.

Important potential risks

Risk	What is known
Increase in blood	Because liragiutide is also used as a diabetes medicine, there have been
sugar levels when	reports of patients who need insulin but were given liraglutide instead. This
used instead of	will result in blood sugar levels that are too high. As Saxenda does not contain
insulin	insulin, it should not be used for the treatment of type 1 diabetes or for the
	treatment of a condition called ketoacidosis (high blood levels of ketones
	(acids)).
Cancers and tumours	Obese patients have an increased risk of developing some types of cancer
(neoplasms) including	including breast cancer and pancreatic cancer. In rodents, the GLP-1 gut
breast cancer,	hormone has been shown to stimulate cell growth. The relevance of this
pancreatic cancer and	finding in humans is unknown.
medullary thyroid	When Saxenda was given to rats and mice for most of their lifetime, more
cancer	medullary (C-cell) thyroid cancers were seen than usual. The relevance of
	these findings for humans is considered low. In addition, there have been
	concerns that medicines that work in the same way as liraglutide may increase
	the risk of cancer of the pancreas
	When considering all the results from the use of Saxenda in humans, there are
	no conclusive data establishing a risk of cancers with Savenda. Considering
	the soriousness of the conditions, cancers are considered an important
	notontial risk
	Obece petiente house a higher rick of heart disease and strake which might
Heart disease and	Obese patients have a higher risk of heart disease and stroke, which might
stroke	lead to death. An increase in heartbeat has been seen in some patients
(cardiovascular	treated with Saxenda during studies. On average, they had 2 to 3 more heart
disorders)	beats each minute.
	There are no conclusive data establishing a risk of heart disease or stroke with
	Saxenda. Considering the seriousness of these conditions, heart disease and
	stroke are considered important potential risks.
Lack of effect due to	There is a concern that some patients make antibodies against Saxenda. This
the body making	could potentially prevent Saxenda from functioning as intended. Antibodies

Risk	What is known
antibodies against	have been detected in the blood of patients taking Saxenda. However, in
Saxenda	clinical studies this has not been shown to reduce the effect of Saxenda.
(lack of efficacy due	
to anti-liraglutide	
antibody formation)	
The body's natural	There is a theoretical risk that Saxenda could trigger the formation of an
antibodies attach to a	immune complex, which might get deposited in body organs and lead to organ
substance coming	failure. Although one case of immune complex disorders has been reported
from outside the body	following the use of Saxenda, the origin was not clear and could have been
(e.g., Saxenda) to	related to other agents (e.g., microorganisms, other medicines). Immune
form a compound	complex disorders are considered an important potential risk since they are
called immune	serious conditions.
complex	
(immune complex	
disorders)	

Missing information

Risk	What is known
Use in children (below	Saxenda has not been studied in patients under 18 years of age.
18 years of age)	This means that it is not known if Saxenda is safe and effective in this age
	group. Saxenda is not recommended for use in children.
Use in women who	Saxenda has not been studied in pregnant women, women attempting to
want to become	become pregnant or women who are breastfeeding. Saxenda should not be
pregnant, are	used during pregnancy since it is not known if Saxenda may harm the unborn
pregnant or are	child. Women should inform their doctor if they are planning to become
breastfeeding	pregnant or have become pregnant.
	Furthermore, it is not known if liraglutide, the active substance of Saxenda,
	passes into breast milk and therefore Saxenda should not be used when
	breastfeeding.
Use in patients with	Saxenda has not been studied in patients with severely reduced liver function
severely reduced liver	and use in these patients is not recommended. There is also not enough
function	information about Saxenda used in patients with mild or moderately reduced
(severe hepatic	liver function and Saxenda should be used with caution in these patients.
impairment)	
Use in patients with	Saxenda has not been studied in patients with severely reduced kidney
severely reduced	function and use in these patients is not recommended. This includes patients
kidney function	with 'end-stage' kidney disease.
(severe renal	
impairment)	
Use in patients with	Saxenda has not been studied in patients with certain heart problems
decreased ability of	(moderate or severe congestive heart failure, when the heart cannot pump
the heart to pump	enough blood around the body). This means Saxenda cannot be recommended
blood, leading to	for use in these patients.
shortage of breath	
(congestive heart	
failure NYHA III-IV)	

Risk	What is known
Use outside of its	Saxenda should only be used for weight management. Information on how
approved indications	well Saxenda works in other conditions or what side effects could be seen are
(off-label use)	not available.
Major depression	There is no information about Saxenda when used in patients with major
	depression. Therefore, use in these patients is not recommended.
Used with other	There is no information about Saxenda when used in combination with other
weight-lowering	weight-lowering medicines. Therefore, the use of Saxenda in combination with
medicines	other weight-lowering medicines is not recommended.

Summary of risk minimisation measures by safety concern

All medicines have a summary of product characteristics (SmPC) which provides physicians, pharmacists and other healthcare professionals with details on how to use the medicine, and also describes the risks and recommendations for minimising them. Information for patients is available in lay language in the package leaflet. The measures listed in these documents are known as 'routine risk minimisation measures'.

The SmPC and the package leaflet are part of the medicine's product information. The product information for Saxenda can be found on <u>Saxenda's EPAR page</u>.

This medicine has no additional risk minimisation measures.

Planned post-authorisation development plan

Study/activity (including study number)	Objectives	Safety concerns /efficacy issue addressed	Status	Planned date for submission of (interim and) final results
EX2211-3748	A long-term, multi-	Cardiovascular	Ongoing	Final study report
LEADER	centre, international,	disorders, neoplasms,		30 Mar 2016
	randomised double-	pancreatic cancer,		
	blind, placebo-	pancreatitis, anti-		
	controlled trial to	liraglutide antibody		
	determine liraglutide	formation, congestive		
	effects on	heart failure.		
	cardiovascular events.			
NN8022-1839	Effect of liraglutide on	Neoplasms (including	Ongoing	Final report 27
SCALE	body weight in non-	breast cancer)		Aug 2015
	diabetic obese subjects			
	or overweight subjects			
	with other conditions.			
NN8022-1839	Collect information on	Neoplasms (including	Planned	27 Aug 2015
SCALE	baseline breast cancer	breast cancer)		
	risk and potential			
	confounders for all			
	identified cases of			
	breast cancer in study			
	NN8022-1839			

List of studies in post-authorisation development plan

Study/activity (including study number)	Objectives	Safety concerns /efficacy issue addressed	Status	Planned date for submission of (interim and) final results
	(including prior history			
	of breast cancer, family			
	history of breast			
	cancer, mutations in			
	BRCA1/BRCA2 genes			
	and age at menopause)			
EX2211-3748	Collect information on	Neoplasms (including	Planned	30 Mar 2016
LEADER	baseline cancer risk and	breast cancer)		
	potential confounders			
	for all identified cases			
	of breast cancer in			
	LEADER (including prior			
	history of breast			
	cancer, family history of			
	breast cancer,			
	BRCA1/BRCA2 status			
	and age at menopause)			
MTC registry	A medullary thyroid	Medullary thyroid	Ongoing	Final report 15
MTC- 22341	cancer case series	cancer	5 5 5	Sep 2026
	registry of at least 15			
	vears duration to			
	systematically monitor			
	the annual incidence of			
	medullary thyroid			
	carcinoma in the US			
	and to identify any			
	increase related to the			
	introduction of			
	liraglutide into the			
	marketplace.			
NN2211-3784,	Post-marketing safety	Neoplasms (including	Ongoing	Final study report
Optum Database	surveillance to observe	thyroid cancer,	5 5	31 Jan 2016
study	the safety profile of	medullary thyroid		
5	liraglutide when used in	cancer, pancreatic		
	a real-life setting in the	cancer and overall		
	US.	malignant neoplasms		
		[including breast		
	To describe and	cancer]), serious		
	monitor the safety	hypoglycaemia, acute		
	profile of liraglutide and	pancreatitis, acute		
	compare the incidence	renal failure,		
	of adverse events with	macrovascular		
	other diabetes	conditions,		
	medicines commonly in	microvascular		
	use.	conditions, thyroid		
		events and		

Study/activity (including study number)	Objectives	Safety concerns /efficacy issue addressed	Status	Planned date for submission of (interim and) final results
		hypersensitivity reactions		
NN2211-3880, CPRD study	To evaluate the safety of liraglutide in the UK population. To compare safety outcomes during current use of liraglutide with the safety outcomes during the use of other non- insulin diabetes medicines. Addendum study in 3880: A sub-study evaluating the potential risk of	Neoplasms (including malignant neoplasms, pancreatic cancer and thyroid cancer, including medullary thyroid cancer), acute pancreatitis and macrovascular conditions	Ongoing	Final study report 30 Jun 2015
	neoplasms in patients treated with liraglutide in combination with metformin and insulin			
NN8022-4192	A mechanistic study to assess effects of liraglutide on gallbladder emptying and pancreatic enzymes.	Acute gallstone disease	Planned	Protocol submission: 3 months after approval in the EU
NN8022-4246	Drug utilisation study: Database study on the use of liraglutide in clinical practice using the Clinical Practice Research Datalink (CPRD, with questionnaires) in the UK.	Off-label use (Victoza used for treatment of weight management and Saxenda not used correctly according to approved label)	Planned	Protocol submission: 3 months after approval in the EU
NN8022-4241	Drug utilisation study: Retrospective chart review of medical records in Germany and Italy on the use of liraglutide in clinical practice.	Off-label use (Victoza used for treatment of weight management and Saxenda not used correctly according to approved label)	Planned	Protocol submission: 3 months after approval in the EU

Studies which are a condition of the marketing authorisation

None of the above studies are a condition of the marketing authorisation.

Summary of changes to the risk management plan over time

Major changes to the Risk Management Plan over time

Not applicable.

This summary was last updated in 03-2015.