ANNEX I SUMMARY OF PRODUCT CHARACTERISTICS

This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions. See section 4.8 for how to report adverse reactions.

1. NAME OF THE MEDICINAL PRODUCT

Saxenda 6 mg/mL solution for injection in pre-filled pen

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

One mL of solution contains 6 mg of liraglutide*. One pre-filled pen contains 18 mg liraglutide in 3 mL.

* human glucagon-like peptide-1 (GLP-1) analogue produced by recombinant DNA technology in *Saccharomyces cerevisiae*.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Solution for injection (injection).

Clear, colourless or almost colourless, isotonic solution; pH = 8.15.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Saxenda is indicated as an adjunct to a reduced-calorie diet and increased physical activity for weight management in adult patients with an initial Body Mass Index (BMI) of

- $\geq 30 \text{ kg/m}^2 \text{ (obese), or}$
- ≥ 27 kg/m² to < 30 kg/m² (overweight) in the presence of at least one weight-related comorbidity such as dysglycaemia (pre-diabetes or type 2 diabetes mellitus), hypertension, dyslipidaemia or obstructive sleep apnoea.

Treatment with Saxenda should be discontinued after 12 weeks on the 3.0 mg/day dose if patients have not lost at least 5% of their initial body weight.

4.2 Posology and method of administration

Posology

The starting dose is 0.6 mg daily. The dose should be increased to 3.0 mg daily in increments of 0.6 mg with at least one week intervals to improve gastro-intestinal tolerability (see table 1). If escalation to the next dose step is not tolerated for two consecutive weeks, consider discontinuing treatment. Daily doses higher than 3.0 mg are not recommended.

Table 1 Dose escalation schedule

	Dose	Weeks
Dose escalation	0.6 mg	1

	1.2 mg	1
	1.8 mg	1
	2.4 mg	1
Maintenance dose		3.0 mg

The treatment effect has only been documented for 1 year. The need for continued treatment should be re-evaluated annually.

Patients with type 2 diabetes mellitus

Saxenda should not be used in combination with another GLP-1 receptor agonist.

When initiating Saxenda, consider reducing the dose of concomitantly administered insulin or insulin secretagogues (such as sulfonylureas) to reduce the risk of hypoglycaemia.

Special populations

Elderly (≥65 years old)

No dose adjustment is required based on age. Therapeutic experience in patients \geq 75 years of age is limited and use in these patients is not recommended (see sections 4.4 and 5.2).

Patients with renal impairment

No dose adjustment is required for patients with mild or moderate renal impairment (creatinine clearance \geq 30 mL/min). Saxenda is not recommended for use in patients with severe renal impairment (creatinine clearance <30 mL/min) including patients with end-stage renal disease (see sections 4.4, 4.8 and 5.2).

Patients with hepatic impairment

No dose adjustment is recommended for patients with mild or moderate hepatic impairment. Saxenda is not recommended for use in patients with severe hepatic impairment and should be used cautiously in patients with mild or moderate hepatic impairment (see sections 4.4 and 5.2).

Paediatric population

The safety and efficacy of Saxenda in children and adolescents below 18 years of age have not been established (see section 5.1). No data are available. This medicinal product is not recommended for use in paediatric patients.

Method of administration

Saxenda is for subcutaneous use only. It must not be administered intravenously or intramuscularly.

Saxenda is administered once daily at any time, independent of meals. It should be injected in the abdomen, thigh or upper arm. The injection site and timing can be changed without dose adjustment. However, it is preferable that Saxenda is injected around the same time of the day, when the most convenient time of the day has been chosen.

Saxenda should not be mixed with other injectables (e.g. insulins).

If a dose is missed within 12 hours from when it is usually taken, the patient should take the dose as soon as possible. If there is less than 12 hours to the next dose, the patient should not take the missed dose and resume the once-daily regimen with the next scheduled dose. An extra dose or increase in dose should not be taken to make up for the missed dose. For further instructions on administration, see section 6.6.

4.3 Contraindications

Hypersensitivity to liraglutide or to any of the excipients listed in section 6.1.

4.4 Special warnings and precautions for use

In patients with diabetes mellitus liraglutide must not be used as a substitute for insulin.

There is limited experience in patients with congestive heart failure New York Heart Association (NYHA) class I-II and liraglutide should therefore be used with caution. There is no experience in patients with congestive heart failure NYHA class III-IV and liraglutide is therefore not recommended in these patients.

The safety and efficacy of liraglutide for weight management have not been established in patients:

- aged 75 years or more,
- treated with other products for weight management,
- with obesity secondary to endocrinological or eating disorders or to treatment with medicinal products that may cause weight gain,
- with severe renal impairment,
- with severe hepatic impairment.

Use in these patients is not recommended (see section 4.2).

As liraglutide for weight management was not investigated in subjects with mild or moderate hepatic impairment, it should be used with caution in these patients (see sections 4.2 and 5.2).

There is limited experience in patients with inflammatory bowel disease and diabetic gastroparesis. Use of liraglutide is not recommended in these patients since it is associated with transient gastrointestinal adverse reactions, including nausea, vomiting and diarrhoea.

Pancreatitis

Use of GLP-1 receptor agonists has been associated with the risk of developing acute pancreatitis. There have been few reported events of acute pancreatitis with liraglutide. Patients should be informed of the characteristic symptoms of acute pancreatitis. If pancreatitis is suspected, liraglutide should be discontinued; if acute pancreatitis is confirmed, liraglutide should not be restarted. Caution should be exercised in patients with a history of pancreatitis.

Cholelithiasis and cholecystitis

In clinical trials for weight management, a higher rate of cholelithiasis and cholecystitis was observed in patients treated with liraglutide than in patients on placebo. The fact that substantial weight loss can increase the risk of cholelithiasis and thereby cholecystitis only partially explained the higher rate with liraglutide. Cholelithiasis and cholecystitis may lead to hospitalisation and cholecystectomy. Patients should be informed of the characteristic symptoms of cholelithiasis and cholecystitis.

Thyroid disease

In clinical trials in type 2 diabetes, thyroid adverse events, including increased blood calcitonin, goitre and thyroid neoplasm have been reported in particular in patients with pre-existing thyroid disease. Cases of increased blood calcitonin were also observed in the weight management clinical trials. Liraglutide should therefore be used with caution in patients with thyroid disease.

Heart rate

An increase in heart rate was observed with liraglutide in clinical trials (see section 5.1). The clinical significance of the heart rate elevation with liraglutide treatment is unclear, especially for patients with cardiac and cerebrovascular disease, as a result of limited exposure in these patients in clinical trials. Heart rate should be monitored at regular intervals consistent with usual clinical practice. Patients should be informed of the symptoms of increased heart rate (palpitations or feelings of a racing heartbeat while at rest). For patients who experience a clinically relevant sustained increase in resting heart rate, treatment with liraglutide should be discontinued.

Dehydration

Signs and symptoms of dehydration, including renal impairment and acute renal failure, have been reported in patients treated with GLP-1 receptor agonists. Patients treated with liraglutide should be

advised of the potential risk of dehydration in relation to gastrointestinal side effects and take precautions to avoid fluid depletion.

Hypoglycaemia in patients with type 2 diabetes mellitus

Patients with type 2 diabetes mellitus receiving liraglutide in combination with a sulphonylurea may have an increased risk of hypoglycaemia. The risk of hypoglycaemia may be lowered by a reduction in the dose of sulphonylurea. The addition of Saxenda in patients treated with insulin has not been evaluated.

Excipients

Saxenda contains less than 1 mmol sodium (23 mg) per dose, therefore the medicinal product is essentially 'sodium-free'.

4.5 Interaction with other medicinal products and other forms of interaction

In vitro, liraglutide has shown very low potential to be involved in pharmacokinetic interactions with other active substances related to cytochrome P450 (CYP) and plasma protein binding.

The small delay of gastric emptying with liraglutide may influence absorption of concomitantly administered oral medicinal products. Interaction studies did not show any clinically relevant delay of absorption and therefore no dose adjustment is required.

Interaction studies have been performed with 1.8 mg liraglutide. The effect on rate of gastric emptying was equivalent between liraglutide 1.8 mg and 3 mg, (paracetamol $AUC_{0-300 \; min}$). Few patients treated with liraglutide reported at least one episode of severe diarrhoea. Diarrhoea may affect the absorption of concomitant oral medicinal products.

Warfarin and other coumarin derivatives

No interaction study has been performed. A clinically relevant interaction with active substances with poor solubility or narrow therapeutic index such as warfarin cannot be excluded. Upon initiation of liraglutide treatment in patients on warfarin or other coumarin derivatives more frequent monitoring of International Normalised Ratio (INR) is recommended.

Paracetamol (Acetaminophen)

Liraglutide did not change the overall exposure of paracetamol following a single dose of 1,000 mg. Paracetamol C_{max} was decreased by 31% and median t_{max} was delayed up to 15 min. No dose adjustment for concomitant use of paracetamol is required.

Atorvastatin

Liraglutide did not change the overall exposure of atorvastatin following single dose administration of atorvastatin 40 mg. Therefore, no dose adjustment of atorvastatin is required when given with liraglutide. Atorvastatin C_{max} was decreased by 38% and median t_{max} was delayed from 1 h to 3 h with liraglutide.

Griseofulvin

Liraglutide did not change the overall exposure of griseofulvin following administration of a single dose of griseofulvin 500 mg. Griseofulvin C_{max} increased by 37% while median t_{max} did not change. Dose adjustments of griseofulvin and other compounds with low solubility and high permeability are not required.

Digoxin

A single dose administration of digoxin 1 mg with liraglutide resulted in a reduction of digoxin AUC by 16%; C_{max} decreased by 31%. Digoxin median t_{max} was delayed from 1 h to 1.5 h. No dose adjustment of digoxin is required based on these results.

<u>Lisinopril</u>

A single dose administration of lisinopril 20 mg with liraglutide resulted in a reduction of lisinopril AUC by 15%; C_{max} decreased by 27%. Lisinopril median t_{max} was delayed from 6 h to 8 h with liraglutide. No dose adjustment of lisinopril is required based on these results.

Oral contraceptives

Liraglutide lowered ethinylestradiol and levonorgestrel C_{max} by 12% and 13%, respectively, following administration of a single dose of an oral contraceptive product. t_{max} was delayed by 1.5 h with liraglutide for both compounds. There was no clinically relevant effect on the overall exposure of either ethinylestradiol or levonorgestrel. The contraceptive effect is therefore anticipated to be unaffected when co-administered with liraglutide.

4.6 Fertility, pregnancy and lactation

Pregnancy

There are limited data from the use of liraglutide in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3). The potential risk for humans is unknown.

Liraglutide should not be used during pregnancy. If a patient wishes to become pregnant, or pregnancy occurs, treatment with liraglutide should be discontinued.

Breast-feeding

It is not known whether liraglutide is excreted in human milk. Animal studies have shown that the transfer of liraglutide and metabolites of close structural relationship into milk is low. Non-clinical studies have shown a treatment related reduction of neonatal growth in suckling rat pups (see section 5.3). Because of lack of experience, Saxenda should not be used during breast-feeding.

Fertility

Apart from a slight decrease in the number of live implants, animal studies did not indicate harmful effects with respect to fertility (see section 5.3).

4.7 Effects on ability to drive and use machines

Saxenda has no or negligible influence on the ability to drive and use machines.

4.8 Undesirable effects

Summary of the safety profile:

The clinical development programme for Saxenda consists of 6 completed clinical trials that enrolled 5,813 obese patients or overweight patients with at least one weight-related co-morbidity. Overall, gastrointestinal reactions were the most frequently reported adverse reactions during treatment with Saxenda (see section 'Description of selected adverse reactions').

<u>Tabulated list of adverse reactions</u>

Table 2 lists adverse reactions reported in long term phase 3 controlled trials. Adverse reactions are listed by system organ class and frequency. Frequency categories are defined as: very common ($\geq 1/10$); common ($\geq 1/100$ to < 1/10); uncommon ($\geq 1/1,000$); rare ($\geq 1/10,000$); very rare (< 1/10,000). Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

Table 2 Adverse reactions reported in phase 3 controlled trials

MedDRA system organ classes	Very common	Common	Uncommon	Rare
Immune system disorders				Anaphylactic reaction
Metabolism and nutrition disorders		Hypoglycaemia*	Dehydration	
Psychiatric		Insomnia**		

disorders				
Nervous system		Dizziness		
disorders		Dysgeusia		
Cardiac disorders			Tachycardia	
Gastrointestinal	Nausea	Dry mouth	Pancreatitis***	
disorders	Vomiting	Dyspepsia		
	Diarrhoea	Gastritis		
	Constipation	Gastro-oesophageal		
		reflux disease		
		Abdominal pain		
		upper		
		Flatulence		
		Eructation		
		Abdominal		
		distension		
Hepatobiliary		Cholelithiasis***	Cholecystitis***	
disorders				
Skin and			Urticaria	
subcutaneous tissue				
disorders				
Renal and urinary				Acute renal
disorders				failure
				Renal
				impairment
General disorders		Injection site	Malaise	
and administration		reactions		
site conditions		Asthenia		
*** ***		Fatigue		

^{*}Hypoglycaemia (based on self-reported symptoms by patients and not confirmed by blood glucose measurements) reported in patients without type 2 diabetes mellitus treated with Saxenda in combination with diet and exercise. Please see section 'Description of selected adverse reactions' for further information.

Description of selected adverse reactions:

Hypoglycaemia in patients without type 2 diabetes mellitus

In clinical trials in overweight or obese patients without type 2 diabetes mellitus treated with Saxenda in combination with diet and exercise no severe hypoglycaemic events (requiring third party assistance) were reported. Symptoms of hypoglycaemic events were reported by 1.6 % of patients treated with Saxenda and 1.1% of patients treated with placebo; however, these events were not confirmed by blood glucose measurements. The majority of events were mild.

Hypoglycaemia in patients with type 2 diabetes mellitus

In a clinical trial in overweight or obese patients with type 2 diabetes mellitus treated with Saxenda in combination with diet and exercise, severe hypoglycaemia (requiring third party assistance) was reported by 0.7% of patients treated with Saxenda and only in patients concomitantly treated with sulfonylurea. Also, in these patients documented symptomatic hypoglycaemia was reported by 43.6% of patients treated with Saxenda and in 27.3% of patients treated with placebo. Among patients not concomitantly treated with sulfonylurea, 15.7% of patients treated with Saxenda and 7.6% of patients treated with placebo reported documented symptomatic hypoglycaemic events (defined as plasma glucose \leq 3.9 mmol/L accompanied by symptoms).

Gastrointestinal adverse reactions

^{**}Insomnia was mainly seen during the first 3 months of treatment.

^{***}See section 4.4.

Most episodes of gastrointestinal events were mild to moderate, transient and the majority did not lead to discontinuation of therapy. The reactions usually occurred during the first weeks of treatment and diminished within a few days or weeks on continued treatment.

Patients ≥65 years of age may experience more gastrointestinal effects when treated with Saxenda.

Patients with mild or moderate renal impairment (creatinine clearance ≥30 mL/min) may experience more gastrointestinal effects when treated with Saxenda.

Acute renal failure

In patients treated with GLP-1 receptor agonists, there have been reports of acute renal failure. A majority of the reported events occurred in patients who had experienced nausea, vomiting, or diarrhoea leading to volume depletion (see section 4.4).

Allergic reactions

Few cases of anaphylactic reactions with symptoms such as hypotension, palpitations, dyspnoea and oedema have been reported with marketed use of liraglutide. Anaphylactic reactions may potentially be life threatening. If an anaphylactic reaction is suspected, liraglutide should be discontinued and treatment should not be restarted (see section 4.3).

Injection site reactions

Injection site reactions have been reported in patients treated with Saxenda. These reactions were usually mild and transitory and majority disappeared during continued treatment.

Tachycardia

In clinical trials, tachycardia was reported in 0.6% of patients treated with Saxenda and in 0.1% of patients treated with placebo. Majority of events were mild or moderate. Events were isolated and majority resolved during continued treatment with Saxenda.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

4.9 Overdose

From clinical trials and post-marketing use of liraglutide overdoses have been reported up to 72 mg (24 times the recommended dose for weight management). Events reported included severe nausea and severe vomiting which are also the expected symptoms of an overdose with liraglutide. None of the reports included severe hypoglycaemia. All patients recovered without complications.

In the event of overdose, appropriate supportive treatment should be initiated according to the patient's clinical signs and symptoms. The patient should be observed for clinical signs of dehydration and blood glucose should be monitored.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Drugs used in diabetes, other blood glucose lowering drugs excl. insulins. ATC code: A10BX07

Mechanism of action

Liraglutide is an acylated human Glucagon-Like Peptide-1 (GLP-1) analogue with 97% amino acid sequence homology to endogenous human GLP-1. Liraglutide binds to and activates the GLP-1 receptor (GLP-1R).

GLP-1 is a physiological regulator of appetite and food intake, but the exact mechanism of action is not entirely clear. In animal studies, peripheral administration of liraglutide led to uptake in specific brain regions involved in regulation of appetite, where liraglutide, via specific activation of the GLP-1R, increased key satiety and decreased key hunger signals, thereby leading to lower body weight.

Pharmacodynamic effects

Liraglutide lowers body weight in humans mainly through loss of fat mass with relative reductions in visceral fat being greater than for subcutaneous fat loss. Liraglutide regulates appetite by increasing feelings of fullness and satiety, while lowering feelings of hunger and prospective food consumption, thereby leading to reduced food intake. Liraglutide does not increase energy expenditure compared to placebo.

Liraglutide stimulates insulin secretion and lowers glucagon secretion in a glucose-dependent manner which results in a lowering of fasting and post-prandial glucose. The glucose lowering effect is more pronounced in patients with pre-diabetes and diabetes compared to patients with normoglycaemia. Clinical trials suggest that liraglutide improves and sustains beta-cell function, according to HOMA-B, and the proinsulin-to-insulin ratio.

Clinical efficacy and safety

The efficacy and safety of liraglutide for weight management in conjunction with reduced caloric intake and increased physical activity were studied in 4 phase 3 randomised, double-blind, placebo-controlled trials which included a total of 5,358 patients.

- Trial 1 (SCALE Obesity & Pre-Diabetes 1839): A 56-week trial assessing body weight loss in 3,731 randomised (2,590 completers) obese patients and overweight patients with one of the following: pre-diabetes, hypertension or dyslipidaemia. 61% had pre-diabetes at baseline.
- Trial 2 (SCALE Diabetes 1922): A 56-week trial assessing body weight loss in 846 randomised (628 completers) obese and overweight patients with insufficiently controlled type 2 diabetes mellitus (HbA_{1c} range 7-10%). The background treatment at trial start was either diet and exercise alone, metformin, a sulfonylurea, a glitazone as single agents or any combination hereof.
- Trial 3 (SCALE Sleep Apnoea 3970): A 32-week trial assessing sleep apnoea severity and body weight loss in 359 randomised (276 completers) obese patients with moderate or severe obstructive sleep apnoea.
- Trial 4 (SCALE Maintenance 1923): A 56-week trial assessing body weight maintenance and weight loss in 422 randomised (305 completers) obese and overweight patients with hypertension or dyslipidaemia after a preceding weight loss of ≥5% induced by a low caloric diet.

Body weight

Superior weight loss was achieved with liraglutide compared to placebo in obese/overweight patients in all groups studied. Across the trial populations, greater proportions of the patients achieved \geq 5% and >10% weight loss with liraglutide than with placebo (tables 3-5). In trial 4, more patients maintained the weight loss achieved prior to treatment initiation with liraglutide than with placebo (81.4% and 48.9%, respectively). Specific data on weight loss, responders, time course and cumulative distribution of weight change (%) for trial 1-4 are presented in tables 3-6 and figures 1, 2, and 3.

Weight loss response after 12 weeks with liraglutide (3.0 mg) treatment

Early responders were defined as patients who achieved $\geq 5\%$ weight loss after 12 weeks on treatment dose of liraglutide (4 weeks of dose escalation and 12 weeks on treatment dose). In Trial 1, 67.5% achieved $\geq 5\%$ weight loss after 12 weeks. In Trial 2, 50.4% achieved $\geq 5\%$ weight loss after 12 weeks. With continued treatment with liraglutide, 86.2% of these early responders are predicted to achieve a weight loss of $\geq 5\%$ and 51% are predicted to achieve a weight loss of $\geq 10\%$ after 1 year of treatment.

The predicted mean weight loss in early responders who complete 1 year of treatment is 11.2% of their baseline body weight (9.7% for males and 11.6% for females). For patients who have achieved a weight loss of < 5% after 12 weeks on treatment dose of liraglutide, the proportion of patients not reaching a weight loss of $\ge 10\%$ after 1 year is 93.4%.

Glycaemic control

Treatment with liraglutide significantly improved glycaemic parameters across sub-populations with normoglycaemia, pre-diabetes and type 2 diabetes mellitus. In trial 1, fewer patients treated with liraglutide had developed type 2 diabetes mellitus compared to patients treated with placebo (0.2% vs. 1.1%). More patients with pre-diabetes at baseline had reversed their pre-diabetes compared to patients treated with placebo (69.2% vs. 32.7%).

Cardiometabolic risk factors

Treatment with liraglutide significantly improved systolic blood pressure and waist circumference compared with placebo (tables 3 and 4).

Apnoea-Hypopnoea Index (AHI)

Waist circumference, cm

Treatment with liraglutide significantly reduced the severity of obstructive sleep apnoea as assessed by change from baseline in the AHI compared with placebo (table 5).

(NT 040E)

(NT 1005)

Table 3 Trial 1: Changes from baseline in body weight, glycaemia and cardiometabolic parameters at week 56

	Saxenda	(N=2437)	Placebo (N=1225)	Saxenda vs. placebo
Body weight					
Baseline, kg (SD)	106.3 (21.2)		106.3	(21.7)	-
Mean change at week 56, % (95% CI)	-8	.0	-2.6		-5.4** (-5.8; -5.0)
Mean change at week 56, kg (95% CI)	-8	.4	-2	.8	-5.6** (-6.0; -5.1)
Proportion of patients losing ≥5% body weight at week 56, % (95% CI)	63	5.5	26	.6	4.8** (4.1; 5.6)
Proportion of patients losing >10% body weight at week 56, % (95% CI)	32	2.8	10.1		4.3** (3.5; 5.3)
Glycaemia and cardiometabolic factors	Baseline	Change	Baseline	Change	
HbA1c, %	5.6	-0.3	5.6	-0.1	-0.23** (-0.25; -0.21)
FPG, mmol/L	5.3	-0.4	5.3	-0.01	-0.38** (-0.42; -0.35)
Systolic blood pressure, mmHg	123.0	-4.3	123.3	-1.5	-2.8** (-3.6; -2.1)
Diastolic blood pressure, mmHg	78.7	-2.7	78.9	-1.8	-0.9* (-1.4; -0.4)

Full Analysis Set. For body weight, HbA_{1c}, FPG, blood pressure and waist circumference, baseline values are means, changes from baseline at week 56 are estimated means (least-squares) and treatment contrasts at week 56 are estimated treatment differences. For the proportions of patients losing \geq 5/>10% body weight, estimated odds ratios are presented. Missing post-baseline values were imputed using the last observation carried forward. * p<0.05.** p<0.0001 CI=confidence intervals. FPG=fasting plasma glucose. SD=standard deviation.

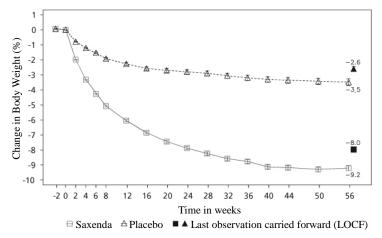
-8.2

114.5

-4.0

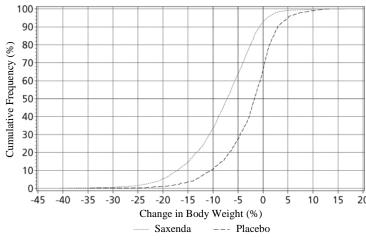
-4.2** (-4.7; -3.7)

115.0



Observed values for patients completing each scheduled visit

Figure 1 Change from baseline in body weight (%) by time in Trial 1



Last observation carried forward.

Figure 2 Cumulative distribution of weight change (%) after 56 weeks of treatment in Trial 1

Table 4 Trial 2: Changes from baseline in body weight, glycaemia and cardiometabolic parameters at week 56

	Saxenda	(N=412)	Placebo (N=211)	Saxenda vs. placebo
Body weight					
Baseline, kg (SD)	105.6 (21	.9)	106.7 (21	.2)	-
Mean change at week 56, % (95% CI)	-5.9		-2.0		-4.0** (-4.8; -3.1)
Mean change at week 56, kg (95% CI)	-6.2		-2.2		-4.1** (-5.0; -3.1)
Proportion of patients losing ≥5% body weight at week 56, % (95% CI)	49.8		13.5		6.4** (4.1; 10.0)
Proportion of patients losing >10% body weight at week 56, % (95% CI)	22.9		4.2		6.8** (3.4; 13.8)
Glycaemia and cardiometabolic factors	Baseline	Change	Baseline	Change	
HbA1c, %	7.9	-1.3	7.9	-0.4	-0.9** (-1.1; -0.8)
FPG, mmol/L	8.8	-1.9	8.6	-0.1	-1.8** (-2.1; -1.4)
Systolic blood pressure, mmHg	128.9	-3.0	129.2	-0.4	-2.6* (-4.6; -0.6)
Diastolic blood pressure, mmHg	79.0	-1.0	79.3	-0.6	-0.4 (-1.7; 1.0)
Waist circumference, cm	118.1	-6.0	117.3	-2.8	-3.2** (-4.2; -2.2)

Full Analysis Set. For body weight, HbA $_{1c}$, FPG, blood pressure and waist circumference, baseline values are means, changes from baseline at week 56 are estimated means (least-squares) and treatment contrasts at week 56 are estimated treatment differences. For the proportions of patients losing $\geq 5/>10\%$ body weight, estimated odds ratios are presented. Missing post-baseline values were imputed using the last observation carried forward. * p<0.05. ** p<0.0001. CI=confidence intervals. FPG=fasting plasma glucose. SD=standard deviation.

Table 5 Trial 3: Changes from baseline in body weight and Apnoea-Hypopnoea Index at week 32

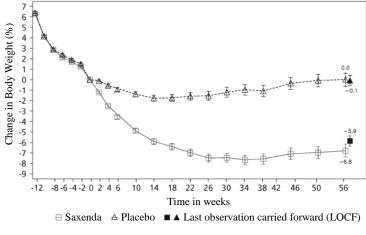
	Saxenda	(N=180)	Placebo	(N=179)	Saxenda vs. placebo
Body weight					
Baseline, kg (SD)	116.5	(23.0)	118.7	(25.4)	-
Mean change at week 32, % (95% CI)	-5	.7	-1	.6	-4.2** (-5.2; -3.1)
Mean change at week 32, kg (95% CI)	-6.8 -1.8		.8	-4.9** (-6.2; -3.7)	
Proportion of patients losing ≥5% body weight at week 32, % (95% CI)	46	5.4	18.1		3.9** (2.4; 6.4)
Proportion of patients losing >10% body weight at week 32 % (95% CI)	22	2.4	1.5		19.0** (5.7; 63.1)
	Baseline	Change	Baseline	Change	
Apnoea-Hypopnoea Index, events/hour	49.0	-12.2	49.3	-6.1	-6.1* (-11.0; -1.2)

Full Analysis Set. Baseline values are means, changes from baseline at week 32 are estimated means (least-squares) and treatment contrasts at week 32 are estimated treatment differences (95% CI). For the proportions of patients losing $\geq 5/>10\%$ body weight, estimated odds ratios are presented. Missing post-baseline values were imputed using the last observation carried forward. * p<0.05. ** p<0.0001. CI=confidence intervals. SD=standard deviation.

Table 6 Trial 4: Changes from baseline in body weight at week 56

	, o		
	Saxenda (N=207)	Placebo (N=206)	Saxenda vs. placebo
Baseline, kg (SD)	100.7 (20.8)	98.9 (21.2)	-
Mean change at week 56, % (95% CI)	-6.3	-0.2	-6.1** (-7.5; -4.6)
Mean change at week 56, kg (95% CI)	-6.0	-0.2	-5.9** (-7.3; -4.4)
Proportion of patients losing ≥5% body weight at week 56, % (95% CI)	50.7	21.3	3.8** (2.4; 6.0)
Proportion of patients losing >10% body weight at week 56, % (95% CI)	27.4	6.8	5.1** (2.7; 9.7)

Full Analysis Set. Baseline values are means, changes from baseline at week 56 are estimated means (least-squares) and treatment contrasts at week 56 are estimated treatment differences. For the proportions of patients losing $\geq 5/>10\%$ body weight, estimated odds ratios are presented. Missing post-baseline values were imputed using the last observation carried forward. ** p<0.0001. CI=confidence intervals. SD=standard deviation.



Observed values for patients completing each scheduled visit

Figure 3 Change from randomisation (week 0) in body weight (%) by time in Trial 4
Before week 0 patients were only treated with low-calorie diet and exercise. At week 0 patients were randomised to receive either Saxenda or placebo.

Immunogenicity

Consistent with the potentially immunogenic properties of protein and peptide pharmaceuticals, patients may develop anti-liraglutide antibodies following treatment with liraglutide. In clinical trials, 2.5% of patients treated with liraglutide developed anti-liraglutide antibodies. Antibody formation has not been associated with reduced efficacy of liraglutide.

Cardiovascular evaluation

Major adverse cardiovascular events (MACE) were adjudicated by an external independent group of experts and defined as non-fatal myocardial infarction, non-fatal stroke and cardiovascular death. In all the long-term clinical trials with Saxenda, there were 6 MACE for patients treated with liraglutide and 10 MACE for placebo treated patients. The hazard ratio and 95% CI is 0.33 [0.12; 0.90] for liraglutide versus placebo. A mean increase in heart rate from baseline of 2.5 beats per minute (ranging across trials from 1.6 to 3.6 beats per minute) has been observed with liraglutide in clinical phase 3 trials. The heart rate peaked after approximately 6 weeks. The long-term clinical impact of this mean increase in heart rate has not been established. The change in heart rate was reversible upon discontinuation of liraglutide (see section 4.4).

Paediatric population

The European Medicines Agency has deferred the obligation to submit the results of studies with Saxenda in one or more subsets of the paediatric population in the treatment of obesity and in the treatment of Prader-Willi Syndrome (see section 4.2 for information on paediatric use).

5.2 Pharmacokinetic properties

Absorption

The absorption of liraglutide following subcutaneous administration was slow, reaching maximum concentration approximately 11 hours post dosing. The average liraglutide steady state concentration (AUC $_{\tau/24}$) reached approximately 31 nmol/L in obese (BMI 30-40 kg/m²) patients following administration of 3 mg liraglutide. Liraglutide exposure increased proportionally with dose. Absolute bioavailability of liraglutide following subcutaneous administration is approximately 55%.

Distribution

The mean apparent volume of distribution after subcutaneous administration is 20-25 L (for a person weighing approximately 100 kg). Liraglutide is extensively bound to plasma protein (>98%).

Biotransformation

During 24 hour following administration of a single [3 H]-liraglutide dose to healthy subjects, the major component in plasma was intact liraglutide. Two minor plasma metabolites were detected (\leq 9% and \leq 5% of total plasma radioactivity exposure).

Elimination

Liraglutide is endogenously metabolised in a similar manner to large proteins without a specific organ as major route of elimination. Following a [³H]-liraglutide dose, intact liraglutide was not detected in urine or faeces. Only a minor part of the administered radioactivity was excreted as liraglutide-related metabolites in urine or faeces (6% and 5%, respectively). The urine and faces radioactivity was mainly excreted during the first 6-8 days, and corresponded to three minor metabolites, respectively.

The mean clearance following subcutaneous administration of liraglutide is approximately 0.9-1.4 L/h with an elimination half-life of approximately 13 hours.

Special populations

Elderly

Age had no clinically relevant effect on the pharmacokinetics of liraglutide based on the results from a population pharmacokinetic analysis of data from overweight and obese patients (18 to 82 years). No dosage adjustment is required based on age.

Gender

Based on the results of population pharmacokinetic analyses, females have 24% lower weight adjusted clearance of liraglutide compared to males. Based on the exposure response data, no dose adjustment is necessary based on gender.

Ethnic origin

Ethnic origin had no clinically relevant effect on the pharmacokinetics of liraglutide based on the results of population pharmacokinetic analysis which included overweight and obese patients of White, Black, Asian and Hispanic/non-Hispanic groups.

Body weight

The exposure of liraglutide decreases with an increase in baseline body weight. The 3 mg daily dose of liraglutide provided adequate systemic exposures over the body weight range of 60-234 kg evaluated for exposure response in the clinical trials. Liraglutide exposure was not studied in patients with body weight >234 kg.

Hepatic impairment

The pharmacokinetics of liraglutide was evaluated in patients with varying degree of hepatic impairment in a single-dose trial (0.75 mg). Liraglutide exposure was decreased by 13-23% in patients with mild to moderate hepatic impairment compared to healthy subjects. Exposure was significantly lower (44%) in patients with severe hepatic impairment (Child Pugh score >9).

Renal impairment

Liraglutide exposure was reduced in patients with renal impairment compared to individuals with normal renal function in a single-dose trial (0.75 mg). Liraglutide exposure was lowered by 33%, 14%, 27% and 26%, respectively, in patients with mild (creatinine clearance, CrCl 50-80 mL/min), moderate (CrCl 30-50 mL/min), and severe (CrCl <30 mL/min) renal impairment and in end-stage renal disease requiring dialysis.

Paediatric population

Saxenda has not been studied in paediatric patients.

5.3 Preclinical safety data

Non-clinical data reveal no special hazards for humans based on conventional studies of safety pharmacology, repeat-dose toxicity, or genotoxicity.

Non-lethal thyroid C-cell tumours were seen in two year carcinogenicity studies in rats and mice. In rats, a no observed adverse effect level (NOAEL) was not observed. These tumours were not seen in monkeys treated for 20 months. These findings in rodents are caused by a non-genotoxic, specific GLP-1 receptor-mediated mechanism to which rodents are particularly sensitive. The relevance for humans is likely to be low but cannot be completely excluded. No other treatment related tumours have been found.

Animal studies did not indicate direct harmful effects with respect to fertility but slightly increased early embryonic deaths at the highest dose. Dosing with liraglutide during mid-gestation caused a reduction in maternal weight and foetal growth with equivocal effects on ribs in rats and skeletal variation in the rabbit. Neonatal growth was reduced in rats while exposed to liraglutide, and persisted in the post-weaning period in the high dose group. It is unknown whether the reduced pup growth is caused by reduced pup milk intake due to a direct GLP-1 effect or reduced maternal milk production due to decreased caloric intake.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Disodium phosphate dihydrate Propylene glycol Phenol Hydrochloric acid (for pH adjustment) Sodium hydroxide (for pH adjustment) Water for injections

6.2 Incompatibilities

Substances added to Saxenda may cause degradation of liraglutide. In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

6.3 Shelf life

30 months

After first use: 1 month

6.4 Special precautions for storage

Store in a refrigerator (2°C - 8°C).

Do not freeze.

Store away from the freezer compartment.

After first use: Store below 30°C or store in a refrigerator (2°C - 8°C). Keep the cap on the pen in order to protect from light.

6.5 Nature and contents of container

Cartridge (type 1 glass) with a plunger (bromobutyl) and a stopper (bromobutyl/polyisoprene) contained in a pre-filled multidose disposable pen made of polypropylene, polyacetal, polycarbonate and acrylonitrile butadiene styrene.

Each pen contains 3 mL solution and is able to deliver doses of 0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg and 3.0 mg.

Pack sizes of 1, 3 or 5 pre-filled pens.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

The solution should not be used if it does not appear clear, colourless or almost colourless.

Saxenda should not be used if it has been frozen.

The pen is designed to be used with NovoFine or NovoTwist disposable needles up to a length of 8 mm and as thin as 32G.

Needles are not included.

The patient should be advised to discard the injection needle after each injection and store the pen without an injection needle attached. This prevents contamination, infection and leakage. It also ensures that the dosing is accurate.

Any unused medicinal product or waste material should be disposed in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Novo Nordisk A/S Novo Allé DK-2880 Bagsværd Denmark

8. MARKETING AUTHORISATION NUMBERS

EU/1/15/992/001-003

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation:

10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu.

ANNEX II

- A. MANUFACTURERS OF THE BIOLOGICAL ACTIVE SUBSTANCE AND MANUFACTURER RESPONSIBLE FOR BATCH RELEASE
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE
- C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION
- D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

A. MANUFACTURERS OF THE BIOLOGICAL ACTIVE SUBSTANCE AND MANUFACTURER RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturers of the biological active substance

Novo Nordisk A/S Hallas Allé 4400 Kalundborg Denmark

Novo Nordisk A/S Novo Allé 2880 Bagsværd Denmark

Name and address of the manufacturer responsible for batch release

Novo Nordisk A/S Novo Allé 2880 Bagsværd Denmark

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to medical prescription.

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

• Periodic safety update reports

The marketing authorisation holder shall submit the first periodic safety update report for this product within 6 months following authorisation. Subsequently, the marketing authorisation holder shall submit periodic safety update reports for this product in accordance with the requirements set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and published on the European medicines web-portal.

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

• Risk Management Plan (RMP)

The MAH shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the Marketing Authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

If the submission of a PSUR and the update of a RMP coincide, they can be submitted at the same time.

ANNEX III LABELLING AND PACKAGE LEAFLET

A. LABELLING

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

CARTON

1. NAME OF THE MEDICINAL PRODUCT

Saxenda 6 mg/mL solution for injection in pre-filled pen Liraglutide

2. STATEMENT OF ACTIVE SUBSTANCE

One mL contains 6 mg of liraglutide. One pre-filled pen contains 18 mg liraglutide.

3. LIST OF EXCIPIENTS

Excipients: disodium phosphate dihydrate, propylene glycol, phenol, hydrochloric acid/sodium hydroxide (for pH adjustment), water for injections.

4. PHARMACEUTICAL FORM AND CONTENTS

Solution for injection

1 pen

3 pens

5 pens

Each pen contains 3 mL solution and is able to deliver doses of 0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg and 3.0 mg.

5. METHOD AND ROUTE OF ADMINISTRATION

The pen is designed to be used with NovoFine or NovoTwist disposable needles.

Needles are not included.

Read the package leaflet before use.

Subcutaneous use

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children

7. OTHER SPECIAL WARNINGS, IF NECESSARY

Do not store the pen with a needle attached.

For use by one person only.

8. EXPIRY DATE

EXP

Discard pen 1 month after first use.

9. SPECIAL STORAGE CONDITIONS

Store in a refrigerator.

Do not freeze.

After first use of the pen, store below 30°C or in a refrigerator.

Keep the pen cap on in order to protect from light.

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Novo Nordisk A/S Novo Allé DK-2880 Bagsværd Denmark

12. MARKETING AUTHORISATION NUMBER

EU/1/15/992/001 1 x 3 ml EU/1/15/992/002 3 x 3 ml EU/1/15/992/003 5 x 3 ml

13. BATCH NUMBER

Batch

14. GENERAL CLASSIFICATION FOR SUPPLY

Medicinal product subject to medical prescription.

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Saxenda

MIN	IMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS
PRE-	-FILLED PEN LABEL
1.	NAME OF THE MEDICINAL PRODUCT AND ROUTE OF ADMINISTRATION
~	
	nda 6 mg/mL injection
Lirag	lutide
SC us	se se
2.	METHOD OF ADMINISTRATION
3.	EXPIRY DATE
EXP	
4.	BATCH NUMBER
D 1	
Batch	
5.	CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT
3 mL	
6.	OTHER
Novo	Nordick A/S

B. PACKAGE LEAFLET

Package leaflet: Information for the patient

Saxenda 6 mg/mL solution for injection in pre-filled pen

liraglutide

This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

Read all of this leaflet carefully before you start using this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, pharmacist or nurse.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

- 1. What Saxenda is and what it is used for
- 2. What you need to know before you use Saxenda
- 3. How to use Saxenda
- 4. Possible side effects
- 5. How to store Saxenda
- 6. Contents of the pack and other information

1. What Saxenda is and what it is used for

What Saxenda is

Saxenda is a weight loss medicine that contains the active substance liraglutide. It is similar to a natural occurring hormone called GLP-1 that is released from the intestine after a meal. Saxenda works by acting on receptors in the brain that control your appetite, causing you to feel fuller and less hungry. This may help you eat less food and reduce your body weight.

What Saxenda is used for

Saxenda is used for weight loss in addition to diet and exercise in adults aged 18 and above who have

- a BMI of 30 or greater (obese) or
- a BMI of 27 or less than 30 (overweight) and weight-related health problems (such as diabetes, high blood pressure, abnormal levels of fats in the blood, or breathing problems during sleep called "obstructive sleep apnoea").

BMI (Body Mass Index) is a measure of your weight in relation to your height.

You should only continue using Saxenda, if you have lost at least 5% of your initial body weight after 12 weeks on the 3 mg/day dose (see section 3). Consult your doctor before you continue.

Diet and exercise

Your doctor will start you on a diet and exercise programme. Stay on this programme while you are using Saxenda.

2. What you need to know before you use Saxenda

Do not use Saxenda:

- if you are allergic to liraglutide or any of the other ingredients of this medicine (listed in section 6).

Warnings and precautions

Talk to your doctor, pharmacist or nurse before using Saxenda.

There is little to no experience with this medicine in patients with heart failure. It is not recommended if you have severe heart failure.

There is little experience with this medicine in patients \geq 75 years old. It is not recommended if you are aged 75 or older.

There is little experience with this medicine in patients with kidney problems. If you have kidney disease or are on dialysis, consult your doctor.

There is little experience with this medicine in patients with liver problems. If you have liver problems, consult your doctor.

This medicine is not recommended if you have a severe stomach or gut problem which results in delayed stomach emptying (called gastroparesis), or if you have an inflammatory bowel disease.

People with diabetes

If you have diabetes, do not use Saxenda as a replacement for insulin.

<u>Inflammation of the pancreas</u>

Talk to your doctor if you have or have had a disease of the pancreas.

Inflamed gall bladder and gall stones

If you lose substantial weight, you are at a risk of gall stones and thereby inflamed gall bladder. Stop taking Saxenda and contact a doctor immediately if you experience severe pain in your upper abdomen, usually worst on the right side under the ribs. The pain may be felt through to your back or right shoulder. See section 4.

Thyroid disease

If you have thyroid disease including thyroid nodules and enlargement of the thyroid gland, consult your doctor.

Heart rate

Talk to your doctor if you have palpitations (you feel aware of your heartbeat) or if you have feelings of a racing heartbeat while at rest during Saxenda treatment.

Loss of fluid and dehydration

When starting treatment with Saxenda, you may lose body fluid or become dehydrated. This may be due to feeling sick (nausea), being sick (vomiting) and diarrhoea. It is important to avoid dehydration by drinking plenty of fluids. Talk to your doctor, pharmacist or nurse if you have any questions or concerns. See section 4.

Children and adolescents

Saxenda should not be used in children and adolescents under 18 years of age. This is because the effects of this medicine have not been studied in this age group.

Other medicines and Saxenda

Tell your doctor, pharmacist or nurse if you are taking, have recently taken or might take any other medicines.

In particular, tell your doctor, pharmacist or nurse if:

• you are taking medicines for diabetes called 'sulphonylurea' (such as glimepiride or glibenclamide) - you may get low blood sugar (hypoglycaemia) when you use these medicines

- with Saxenda. Your doctor may adjust the dose of your diabetes medicine to prevent you from getting low blood sugar. See section 4 for the warnings signs of low blood sugar.
- you are taking warfarin or other medicines by mouth that reduce your blood clotting (anticoagulants). More frequent blood testing to determine the ability of your blood to clot may be required.

Pregnancy and breast-feeding

Do not use Saxenda if you are pregnant, think that you might be pregnant or are planning to have a baby. This is because it is not known if Saxenda may affect the baby.

Do not breast-feed if you are using Saxenda. This is because it is not known if Saxenda passes into breast milk.

Driving and using machines

Saxenda is unlikely to affect your ability to drive and use machines. If you need any further information, talk to your doctor, pharmacist or nurse.

Important information about some of the ingredients of Saxenda

This medicine contains less than 1 mmol sodium (23 mg) per dose. This means that it is essentially 'sodium-free'.

3. How to use Saxenda

Always use Saxenda exactly as your doctor has told you. Check with your doctor, pharmacist or nurse if you are not sure.

Your doctor will start you on a diet and exercise programme. Stay on this programme while you are using Saxenda.

How much to inject

Your treatment will start at a low dose which will be gradually increased over the first five weeks of treatment.

- When you first start using Saxenda, the starting dose is 0.6 mg once a day, for at least one week.
- You should increase your dose by 0.6 mg each week until you reach the recommended dose of 3.0 mg once a day.

Your doctor will tell you how much Saxenda to use each week. Usually, you will be told to follow the table below.

Week	Dose injected
Week 1	0.6 mg once a day
Week 2	1.2 mg once a day
Week 3	1.8 mg once a day
Week 4	2.4 mg once a day
Week 5 onwards	3.0 mg once a day

Once you reach the recommended dose of 3.0 mg in Week 5 of treatment, keep using this dose until your treatment period ends. Do not increase your dose further.

Your doctor will assess your treatment on a regular basis.

How and when to use Saxenda

- Before you use the pen for the first time, your doctor or nurse will show you how to use the pen.
- You can use Saxenda at any time of the day, with or without food and drinks.
- Use Saxenda at about the same time each day choose a time of the day that works best for you.

Where to inject

Saxenda is given as an injection under the skin (subcutaneous injection).

- The best places to inject are the front of your waist (abdomen), the front of your thighs or your upper arm.
- Do not inject into a vein or muscle.

Detailed instructions for use are provided on the other side of this leaflet.

People with diabetes

Tell your doctor if you have diabetes. Your doctor may adjust the dose of your diabetes medicines to prevent you from getting low blood sugar.

- Do not mix Saxenda up with other medicines that you inject (e.g. insulins).
- Do not use Saxenda in combination with other medicines that contain GLP-1 receptor agonists (such as exenatide, lixisenatide).

If you use more Saxenda than you should

If you use more Saxenda than you should, talk to a doctor or go to a hospital straight away. Take the medicine pack with you. You may need medical treatment. The following effects may happen:

- feeling sick (nausea)
- being sick (vomiting).

If you forget to use Saxenda

- If you forget a dose and remember it within 12 hours from when you usually take the dose, inject it as soon as you remember.
- However, if more than 12 hours has passed since you should have used Saxenda, skip the missed dose and inject your next dose the following day at the usual time.
- Do not use a double dose or increase the dose on the following day to make up for the missed dose.

If you stop using Saxenda

Do not stop using Saxenda without talking to your doctor.

If you have any further questions on the use of this medicine, ask your doctor, pharmacist or nurse.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Serious side effects

Some severe allergic reactions (anaphylaxis) have been reported rarely in patients using Saxenda. You should see your doctor straight away if you get symptoms such as breathing problems, swelling of face and throat and a fast heart beat.

Cases of inflammation of the pancreas (pancreatitis) have been reported uncommonly in patients using Saxenda. Pancreatitis is a serious, potentially life-threatening medical condition.

Stop taking Saxenda and contact a doctor immediately if you notice any of the following serious side effects:

• Severe and persistent pain in the abdomen (stomach area) which might reach through to your back, as well as nausea and vomiting, as it could be a sign of an inflamed pancreas (pancreatitis).

Other side effects

Very common: may affect more than 1 in 10 people

• feeling sick (nausea), being sick (vomiting), diarrhoea, constipation - these usually go away after a few days or weeks.

Common: may affect up to 1 in 10 people

- problems affecting the stomach and intestines such as: indigestion (dyspepsia), inflammation in the lining of the stomach (gastritis), stomach discomfort, upper stomach pain, heart burn, feeling bloated, wind (flatulence), belching, dry mouth
- feeling weak or tired
- changed sense of taste
- dizziness
- difficulty sleeping (insomnia). This usually occurs the first 3 months of treatment
- gall stones
- injection site reactions (such as bruising, pain, irritation, itching and rash)
- low blood sugar (hypoglycaemia). The warning signs of low blood sugar may come on suddenly and can include: cold sweat, cool pale skin, headache, fast heart beat, feeling sick, feeling very hungry, changes in vision, feeling sleepy, feeling weak, being nervous, anxious, confusion, difficulty concentrating and shaking (tremor). Your doctor will tell you how to treat low blood sugar and what to do if you notice these warning signs.

Uncommon: may affect up to 1 in 100 people

- loss of fluids (dehydration). This is more likely to occur at the start of treatment and may be due to being sick (vomiting), feeling sick (nausea) and diarrhoea
- inflamed gall bladder
- allergic reactions including skin rash
- feeling generally unwell
- faster pulse.

Rare: may affect up to 1 in 1,000 people

- reduced kidney function
- acute kidney failure. Signs may include reduction in urine volume, metallic taste in mouth and easily bruising.

Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in <u>Appendix V</u>. By reporting side effects, you can help provide more information on the safety of this medicine.

5. How to store Saxenda

Keep this medicine out of the sight and reach of children.

Do not use Saxenda after the expiry date which is stated on the pen label and carton after 'EXP'. The expiry date refers to the last day of that month.

Before first use:

Store in a refrigerator (2°C to 8°C). Do not freeze. Keep away from the freezer compartment.

Once you start using the pen:

You can keep the pen for 1 month when stored at a temperature below 30°C or in a refrigerator (2°C to 8°C). Do not freeze. Keep away from the freezer compartment.

When you are not using the pen, keep the pen cap on in order to protect it from light.

Do not use this medicine if the solution is not clear and colourless, or almost colourless.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Saxenda contains

- The active substance is liraglutide. One mL solution for injection contains 6 mg liraglutide. One pre-filled pen contains 18 mg liraglutide.
- The other ingredients are disodium phosphate dihydrate, propylene glycol, phenol, hydrochloric acid and sodium hydroxide (for pH adjustment), and water for injections.

What Saxenda looks like and contents of the pack

Saxenda is supplied as a clear, colourless or almost colourless solution for injection in pre-filled pen. Each pen contains 3 mL solution and is able to deliver doses of 0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg and 3.0 mg.

Saxenda is available in pack sizes containing 1, 3 or 5 pens. Not all pack sizes may be marketed.

Needles are not included.

Marketing Authorisation Holder and Manufacturer

Novo Nordisk A/S Novo Allé DK-2880 Bagsværd Denmark

This leaflet was last revised in

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency website: http://www.ema.europa.eu.

Instructions on how to use Saxenda 6 mg/mL solution for injection in pre-filled pen

Please read these instructions carefully before using your Saxenda pre-filled pen.

Do not use the pen without proper training from your doctor or nurse. Start by checking your pen to **make sure that it contains Saxenda 6 mg/mL**, then look at the illustrations below to get to know the different parts of your pen and needle.

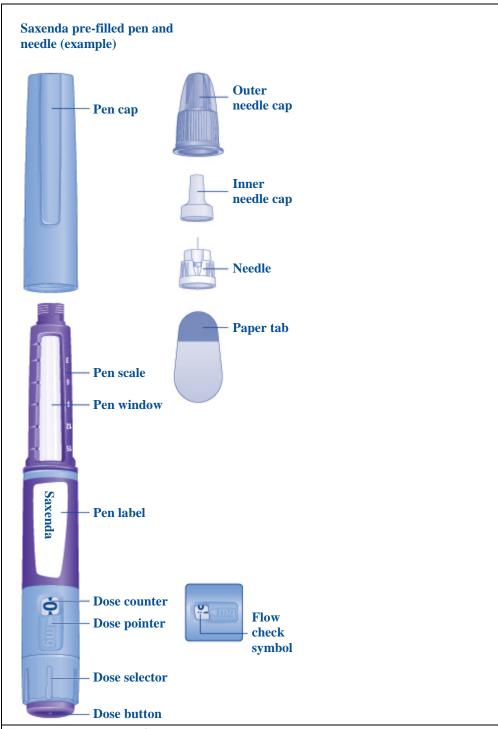
If you are blind or have poor eyesight and cannot read the dose counter on the pen, do not use this pen without help. Get help from a person with good eyesight who is trained to use the Saxenda pre-filled pen.

Your pen is a pre-filled dial-a-dose pen. It contains 18 mg of liraglutide, and delivers doses of 0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg and 3.0 mg. Your pen is designed to be used with NovoFine or NovoTwist disposable needles up to a length of 8 mm and as thin as 32 G.

Needles are not included in the pack.

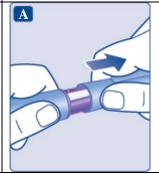
△ Important information

Pay special attention to these notes as they are important for safe use of the pen.



1 Prepare your pen with a new needle

- Check the name and coloured label of your pen, to make sure that it contains Saxenda. This is especially important if you take more than one type of injectable medicine. Using the wrong medicine could be harmful to your health.
- Pull off the pen cap.



•	Check that the solution in your pen is clear and colourless. Look through the pen window. If the solution looks cloudy, do not use the pen.	B
•	Take a new needle, and tear off the paper tab.	C
•	Push the needle straight onto the pen. Turn until it is on tight.	
•	Pull off the outer needle cap and keep it for later. You will need it after the injection, to safely remove the needle from the pen.	E
•	Pull off the inner needle cap and throw it away. If you try to put it back on, you may accidentally stick yourself with the needle. A drop of solution may appear at the needle tip. This is normal, but you must still check the flow, if you use a new pen for the first time. Do not attach a new needle to your pen until you are ready to take your injection.	F
<u>∧</u>	Always use a new needle for each injection. This may prevent blocked needles, contamination, infection and inaccurate dosing. Never use a bent or damaged needle.	
2 Cł	neck the flow	A
•	Before your first injection with each new pen, check the flow. If your pen is already in use, go to step 3 'Select your dose'. Turn the dose selector until the dose counter shows the flow check symbol (••• ••).	Flow check symbol selected

• Hold the pen with the needle pointing up.

Press and hold in the dose button until the dose counter returns to 0. The 0 must line up with the dose pointer.

A drop of solution should appear at the needle tip.

A small drop may remain at the needle tip, but it will not be injected. **If no drop appears,** repeat step 2 'Check the flow' up to 6 times. If there is still no drop, change the needle and repeat step 2 'Check the flow' once more.

If a drop still does not appear, dispose of the pen and use a new one.

Always make sure that a drop appears at the needle tip before you use a new pen for the first time. This makes sure that the solution flows. If no drop appears, you will **not** inject any medicine, even though the dose counter may move. **This may indicate a blocked or damaged needle.** If you do not check the flow before your first injection with each new pen, you may not get the prescribed dose and the intended effect of Saxenda.

3 Select your dose

• Turn the dose selector until the dose counter shows your dose (0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg or 3.0 mg).

If you select the wrong dose, you can turn the dose selector forward or backwards to the correct dose.

The pen can dial up to a maximum of 3.0 mg.

The dose selector changes the dose. Only the dose counter and dose pointer will show how many mg you select per dose.

You can select up to 3.0 mg per dose. When your pen contains less than 3.0 mg the dose counter stops before 3.0 is shown.

The dose selector clicks differently when turned forward, backwards or past the number of mg left. Do not count the pen clicks.

△ Always use the dose counter and the dose pointer to see how many mg you have selected before injecting this medicine.

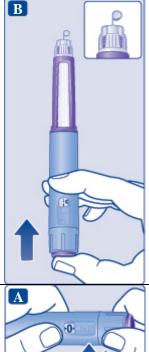
Do not count the pen clicks.

Do not use the pen scale. It only shows approximately how much solution is left in your pen.

Only doses of 0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg or 3.0 mg must be selected with the dose selector. The selected dose must line up precisely with the dose pointer to ensure that you get a correct dose.

How much solution is left?

• The **pen scale** shows you **approximately** how much solution is left in your pen.







• To see precisely how much solution is left, use the dose counter:

Turn the dose selector until the dose counter stops.

If it shows 3.0, at least 3.0 mg are left in your pen. If the dose counter stops before 3.0 mg, there is not enough solution left for a full dose of 3.0 mg.

If you need more medicine than what is left in your pen

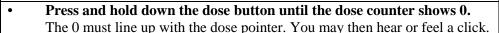
Only if trained or advised by your doctor or nurse, you may split your dose between your current pen and a new pen. Use a calculator to plan the doses as instructed by your doctor or nurse.



If you are not sure how to split your dose using two pens, then select and inject the dose you need with a new pen.

4 Inject your dose

- **Insert the needle into your skin** as your doctor or nurse has shown you.
- **Make sure you can see the dose counter.** Do not cover it with your fingers. This could interrupt the injection.



- **Keep the needle in your skin after** the dose counter has returned to 0 and **count slowly to 6.**
- If the needle is removed earlier, you may see a stream of solution coming from the needle tip. If so, the full dose will not be delivered.

• Remove the needle from your skin.

If blood appears at the injection site, press lightly. Do not rub the area.

You may see a drop of solution at the needle tip after injecting. This is normal and does not affect your dose.

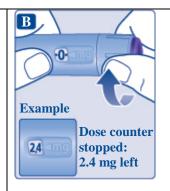
Always watch the dose counter to know how many mg you inject. Hold the dose button down until the dose counter shows 0.

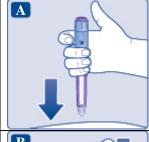
How to identify a blocked or damaged needle?

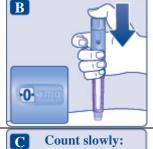
- If 0 does not appear in the dose counter after continuously pressing the dose button, you may have used a blocked or damaged needle.
- In this case you have **not** received **any** medicine even though the dose counter has moved from the original dose that you have set.

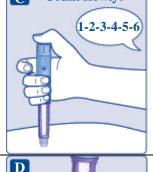
How to handle a blocked needle?

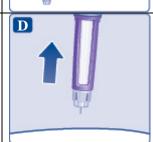
Change the needle as described in step 5 'After your injection', and repeat all steps starting with step 1 'Prepare your pen with a new needle'. Make











	sure you select the full dose you need.	
	sure you select the full dose you need.	
	Never touch the dose counter when you inject. This can interrupt the injection.	
5 Af	ter your injection	A
•	Lead the needle tip into the outer needle cap on a flat surface without touching the needle or the outer needle cap.	
•	Once the needle is covered, carefully push the outer needle cap completely on. Unscrew the needle and dispose of it carefully.	B
•	Put the pen cap on your pen after each use to protect the solution from light.	C
	Always dispose of the needle after each injection to ensure convenient injections and prevent blocked needles. If the needle is blocked, you will not inject any medicine. When the pen is empty, throw it away without a needle on as instructed by your doctor, nurse, pharmacist or local authorities.	
\triangle	Never try to put the inner needle cap back on the needle. You may stick yourself with the needle.	
Δ	Always remove the needle from your pen after each injection. This may prevent blocked needles, contamination, infection, leakage of solution and inaccurate dosing.	
\triangle	Further important information	
•	Always keep your pen and needles out of sight and reach of others , especially children. Never share your pen or your needles with other people.	
•	Caregivers must be very careful when handling used needles - to prevent needle injury and cross-infection.	
Cari	ing for your pen	
•	Do not leave the pen in a car or other place where it can get too hot or too cold.	
•	Do not inject Saxenda which has been frozen. If you do that, you may not get the intended effect of this medicine.	
•	Do not expose your pen to dust, dirt or liquid. Do not wash, soak or lubricate your pen. If necessary, clean it with a mild detergent on a moistened cloth.	
•	Do not drop your pen or knock it against hard surfaces. If you drop it or suspect a problem, attach a new needle and check the flow before you inject.	
•	Do not try to refill your pen. Once empty, it must be disposed of. Do not try to repair your pen or pull it apart.	