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RESEARCH**

APPLICATION NUMBER:

206321Orig1s000

LABELING

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use SAXENDA® safely and effectively. See full prescribing information for SAXENDA.

SAXENDA (liraglutide [rDNA origin] injection), solution for subcutaneous use
Initial U.S. Approval: 2014

WARNING: RISK OF THYROID C-CELL TUMORS

See full prescribing information for complete boxed warning.

- Liraglutide causes thyroid C-cell tumors at clinically relevant exposures in both genders of rats and mice. It is unknown whether Saxenda causes thyroid C-cell tumors, including medullary thyroid carcinoma (MTC), in humans, as the human relevance of liraglutide-induced rodent thyroid C-cell tumors has not been determined (5.1).
- Saxenda is contraindicated in patients with a personal or family history of MTC or in patients with Multiple Endocrine Neoplasia syndrome type 2 (MEN 2). Counsel patients regarding the risk of MTC and the symptoms of thyroid tumors (4, 5.1, 13.1).

INDICATIONS AND USAGE

Saxenda is a glucagon-like peptide-1 (GLP-1) receptor agonist indicated as an adjunct to a reduced-calorie diet and increased physical activity for chronic weight management in adult patients with an initial body mass index (BMI) of

- 30 kg/m² or greater (obese) (1) or
- 27 kg/m² or greater (overweight) in the presence of at least one weight-related comorbid condition (e.g. hypertension, type 2 diabetes mellitus, or dyslipidemia) (1).

Limitations of Use:

- Saxenda is not indicated for the treatment of type 2 diabetes (1).
- Saxenda should not be used in combination with any other GLP-1 receptor agonist (1).
- Saxenda should not be used with insulin (1, 5.4).
- The effects of Saxenda on cardiovascular morbidity and mortality have not been established (1).
- The safety and efficacy of coadministration with other products for weight loss have not been established (1).
- Saxenda has not been studied in patients with a history of pancreatitis (1, 5.2).

DOSAGE AND ADMINISTRATION

- Recommended dose of Saxenda is 3 mg daily. Administer at any time of day, without regard to the timing of meals (2).
- Initiate at 0.6 mg per day for one week. In weekly intervals, increase the dose until a dose of 3 mg is reached (2).
- Inject subcutaneously in the abdomen, thigh or upper arm (2).
- The injection site and timing can be changed without dose adjustment (2).

DOSAGE FORMS AND STRENGTHS

- Solution for subcutaneous injection, pre-filled, multi-dose pen that delivers doses of 0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg or 3 mg (6 mg/mL, 3 mL) (3).

CONTRAINDICATIONS

- Personal or family history of medullary thyroid carcinoma or Multiple Endocrine Neoplasia syndrome type 2 (4, 5.1).
- Hypersensitivity to liraglutide or any product components (4, 5.7).
- Pregnancy (4, 8.1).

WARNINGS AND PRECAUTIONS

- Thyroid C-cell Tumors: Counsel patients regarding the risk of medullary thyroid carcinoma and the symptoms of thyroid tumors (5.1).
- Acute Pancreatitis: Discontinue promptly if pancreatitis is suspected. Do not restart if pancreatitis is confirmed (5.2).
- Acute Gallbladder Disease: If cholelithiasis or cholecystitis are suspected, gallbladder studies are indicated (5.3).
- Serious Hypoglycemia: Can occur when Saxenda is used with an insulin secretagogue (e.g. a sulfonylurea). Consider lowering the dose of anti-diabetic drugs to reduce the risk of hypoglycemia (2, 5.4).
- Heart Rate Increase: Monitor heart rate at regular intervals (5.5).
- Renal Impairment: Has been reported postmarketing, usually in association with nausea, vomiting, diarrhea, or dehydration which may sometimes require hemodialysis. Use caution when initiating or escalating doses of Saxenda in patients with renal impairment (5.6).
- Hypersensitivity Reactions: Postmarketing reports of serious hypersensitivity reactions (e.g., anaphylactic reactions and angioedema). Discontinue Saxenda and other suspect medications and promptly seek medical advice (5.7).
- Suicidal Behavior and Ideation: Monitor for depression or suicidal thoughts. Discontinue Saxenda if symptoms develop (5.8).

ADVERSE REACTIONS

- Most common adverse reactions, reported in greater than or equal to 5% are: nausea, hypoglycemia, diarrhea, constipation, vomiting, headache, decreased appetite, dyspepsia, fatigue, dizziness, abdominal pain, and increased lipase (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact Novo Nordisk Inc. at 1-877-484-2869 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Saxenda delays gastric emptying. May impact absorption of concomitantly administered oral medications. Use with caution (7).

USE IN SPECIFIC POPULATIONS

- Nursing Mothers: Discontinue drug or nursing (8.3).
- Pediatric Use: Safety and effectiveness not established and use not recommended (8.4).

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 12/2014

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FULL PRESCRIBING INFORMATION

WARNING: RISK OF THYROID C-CELL TUMORS

- **Liraglutide causes dose-dependent and treatment-duration-dependent thyroid C-cell tumors at clinically relevant exposures in both genders of rats and mice. It is unknown whether Saxenda causes thyroid C-cell tumors, including medullary thyroid carcinoma (MTC), in humans, as the human relevance of liraglutide-induced rodent thyroid C-cell tumors has not been determined [see Warnings and Precautions (5.1) and Nonclinical Toxicology (13.1)].**
- **Saxenda is contraindicated in patients with a personal or family history of MTC and in patients with Multiple Endocrine Neoplasia syndrome type 2 (MEN 2). Counsel patients regarding the risk of MTC with use of Saxenda and inform them of symptoms of thyroid tumors (e.g., a mass in the neck, dysphagia, dyspnea, persistent hoarseness). Routine monitoring of serum calcitonin or using thyroid ultrasound is of uncertain value for early detection of MTC in patients treated with Saxenda [see Contraindications (4), Warnings and Precautions (5.1)].**

1 INDICATIONS AND USAGE

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

- 30 kg/m² or greater (obese), or
- 27 kg/m² or greater (overweight) in the presence of at least one weight-related comorbid condition (e.g., hypertension, type 2 diabetes mellitus, or dyslipidemia)

Limitations of Use

- Saxenda is not indicated for the treatment of type 2 diabetes mellitus.
- Saxenda and Victoza[®] both contain the same active ingredient, liraglutide, and therefore should not be used together. Saxenda should not be used in combination with any other GLP-1 receptor agonist.
- Saxenda has not been studied in patients taking insulin. Saxenda and insulin should not be used together [see Warnings and Precautions (5.4)].
- The effects of Saxenda on cardiovascular morbidity and mortality have not been established.
- The safety and effectiveness of Saxenda in combination with other products intended for weight loss, including prescription drugs, over-the-counter drugs, and herbal preparations, have not been established.
- Saxenda has not been studied in patients with a history of pancreatitis [see Warnings and Precautions (5.2)].

2 DOSAGE AND ADMINISTRATION

The recommended dosage of Saxenda is 3 mg daily. The dose escalation schedule in Table 1 should be used to reduce the likelihood of gastrointestinal symptoms. If patients do not tolerate an increased dose during dose escalation, consider delaying dose escalation for approximately one additional week. Saxenda should be discontinued, however, if a patient cannot tolerate the 3 mg dose, as efficacy has not been established at lower doses (0.6, 1.2, 1.8, and 2.4 mg).

Table 1. Dose Escalation Schedule

Week	Daily Dose
1	0.6 mg
2	1.2 mg
3	1.8 mg
4	2.4 mg
5 and onward	3 mg

Saxenda should be taken once daily at any time of day, without regard to the timing of meals. Saxenda can be injected subcutaneously in the abdomen, thigh, or upper arm. The injection site and timing can be changed without dose adjustment. Saxenda must not be administered intravenously or intramuscularly.

When initiating Saxenda in patients taking insulin secretagogues (such as sulfonylureas), consider reducing the dose of the insulin secretagogue (for example, by one-half) to reduce the risk for hypoglycemia, and monitor blood glucose. Saxenda and insulin should not be used together [see *Warnings and Precautions (5.4) and Adverse Reactions (6.1)*]. Conversely, if discontinuing Saxenda in patients with type 2 diabetes, monitor for an increase in blood glucose.

Evaluate the change in body weight 16 weeks after initiating Saxenda and discontinue Saxenda if the patient has not lost at least 4% of baseline body weight, since it is unlikely that the patient will achieve and sustain clinically meaningful weight loss with continued treatment.

If a dose is missed, the once-daily regimen should be resumed as prescribed with the next scheduled dose. An extra dose or increase in dose should not be taken to make up for the missed dose. If more than 3 days have elapsed since the last Saxenda dose, patients should reinitiate Saxenda at 0.6 mg daily and follow the dose escalation schedule in Table 1, which may reduce the occurrence of gastrointestinal symptoms associated with reinitiation of treatment.

Prior to initiation of Saxenda, patients should be trained by their healthcare professional on proper injection technique. Training reduces the risk of administration errors such as needle sticks and incomplete dosing. Refer to the accompanying Instructions for Use for complete administration instructions with illustrations.

Saxenda solution should be inspected prior to each injection, and the solution should be used only if it is clear, colorless, and contains no particles.

BMI is calculated by dividing weight in (kilograms) by height (in meters) squared. A chart for determining BMI based on height and weight is provided in Table 2.

Table 2. BMI Conversion Chart

Weight	(lb)	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225
	(kg)	56.8	59.1	61.4	63.6	65.9	68.2	70.5	72.7	75.0	77.3	79.5	81.8	84.1	86.4	88.6	90.9	93.2	95.5	97.7	100.0	102.3
Height																						
(in)	(cm)																					
58	147.3	26	27	28	29	30	31	32	34	35	36	37	38	39	40	41	42	43	44	45	46	47
59	149.9	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	43	44	45	46
60	152.4	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
61	154.9	24	25	26	27	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
62	157.5	23	24	25	26	27	27	28	29	30	31	32	33	34	35	36	37	38	38	39	40	41
63	160.0	22	23	24	25	26	27	28	28	29	30	31	32	33	34	35	36	36	37	38	39	40
64	162.6	22	22	23	24	25	26	27	28	28	29	30	31	32	33	34	34	35	36	37	38	39
65	165.1	21	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38
66	167.6	20	21	22	23	23	24	25	26	27	27	28	29	30	31	32	32	33	34	35	36	36
67	170.2	20	20	21	22	23	24	24	25	26	27	27	28	29	30	31	31	32	33	34	35	35
68	172.7	19	20	21	21	22	23	24	24	25	26	27	27	28	29	30	30	31	32	33	34	34
69	175.3	18	19	20	21	21	22	23	24	24	25	26	27	27	28	29	30	30	31	32	33	33
70	177.8	18	19	19	20	21	22	22	23	24	24	25	26	27	27	28	29	29	30	31	32	32
71	180.3	17	18	19	20	20	21	22	22	23	24	24	25	26	27	27	28	29	29	30	31	31
72	182.9	17	18	18	19	20	20	21	22	22	23	24	24	25	26	27	27	28	29	29	30	31
73	185.4	17	17	18	19	19	20	20	21	22	22	23	24	24	25	26	26	27	28	28	29	30
74	188.0	16	17	17	18	19	19	20	21	21	22	23	23	24	24	25	26	26	27	28	28	29
75	190.5	16	16	17	18	18	19	19	20	21	21	22	23	23	24	24	25	26	26	27	28	28
76	193.0	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	24	25	26	26	27	27

3 DOSAGE FORMS AND STRENGTHS

Solution for subcutaneous injection, pre-filled, multi-dose pen that delivers doses of 0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg, or 3 mg (6 mg/mL, 3 mL).

4 CONTRAINDICATIONS

Saxenda is contraindicated in the following conditions:

- Patients with a personal or family history of medullary thyroid carcinoma (MTC) or patients with Multiple Endocrine Neoplasia syndrome type 2 (MEN 2) [see Warnings and Precautions (5.1)]
- Patients with a prior serious hypersensitivity reaction to liraglutide or to any of the product components [see Warnings and Precautions (5.7)]
- Pregnancy [see Use in Specific Populations (8.1)]

5 WARNINGS AND PRECAUTIONS

5.1 Risk of Thyroid C-cell Tumors

Liraglutide causes dose-dependent and treatment-duration-dependent thyroid C-cell tumors (adenomas and/or carcinomas) at clinically relevant exposures in both genders of rats and mice [see Nonclinical Toxicology (13.1)]. Malignant thyroid C-cell carcinomas were detected in rats and mice. It is unknown whether Saxenda will cause thyroid C-cell tumors, including medullary thyroid carcinoma (MTC), in humans, as the human relevance of liraglutide-induced rodent thyroid C-cell tumors has not been determined.

Cases of MTC in patients treated with liraglutide have been reported in the postmarketing period; the data in these reports are insufficient to establish or exclude a causal relationship between MTC and liraglutide use in humans.

Saxenda is contraindicated in patients with a personal or family history of MTC or in patients with MEN 2. Counsel patients regarding the risk for MTC and inform them of symptoms of thyroid tumors (e.g., a mass in the neck, dysphagia, dyspnea, persistent hoarseness).

Routine monitoring of serum calcitonin or using thyroid ultrasound is of uncertain value for early detection of MTC in patients treated with Saxenda. Such monitoring may increase the risk of unnecessary procedures, due to low test specificity for serum calcitonin and a high background incidence of thyroid disease. Significantly elevated serum calcitonin may indicate MTC, and patients with MTC usually have calcitonin values greater than 50 ng/L. If serum calcitonin is measured and found to be elevated, the patient should be further evaluated. Patients with thyroid nodules noted on physical examination or neck imaging should also be further evaluated.

5.2 Acute Pancreatitis

Based on spontaneous postmarketing reports, acute pancreatitis, including fatal and non-fatal hemorrhagic or necrotizing pancreatitis, has been observed in patients treated with liraglutide. After initiation of Saxenda, observe patients carefully for signs and symptoms of pancreatitis (including persistent severe abdominal pain, sometimes radiating to the back and which may or may not be accompanied by vomiting). If pancreatitis is suspected, Saxenda should promptly be discontinued and appropriate management should be initiated. If pancreatitis is confirmed, Saxenda should not be restarted.

In Saxenda clinical trials, acute pancreatitis was confirmed by adjudication in 9 (0.3%) of 3291 Saxenda-treated patients and 1 (0.1%) of 1843 placebo-treated patients. In addition, there were 2 cases of acute pancreatitis in Saxenda-treated patients who prematurely withdrew from these clinical trials, occurring 74 and 124 days after the last dose, and 1 additional case in a Saxenda-treated patient during an off-treatment follow-up period within 2 weeks of discontinuing Saxenda.

It is unknown whether patients with a history of pancreatitis are at increased risk for pancreatitis while using Saxenda, since these patients were excluded from clinical trials.

5.3 Acute Gallbladder Disease

In Saxenda clinical trials, 1.5% of Saxenda-treated patients reported adverse events of cholelithiasis versus 0.5% of placebo-treated patients. The incidence of cholecystitis was 0.6% in Saxenda-treated patients versus 0.2% in placebo-treated patients. The majority of Saxenda-treated patients with adverse events of cholelithiasis and cholecystitis required cholecystectomy. Substantial or rapid weight loss can increase the risk of cholelithiasis; however, the incidence of acute gallbladder disease was greater in Saxenda-treated patients than in placebo-treated patients even after accounting for the degree of weight loss. If cholelithiasis is suspected, gallbladder studies and appropriate clinical follow-up are indicated.

5.4 Risk for Hypoglycemia with Concomitant Use of Anti-Diabetic Therapy

The risk for serious hypoglycemia is increased when Saxenda is used in combination with insulin secretagogues (for example, sulfonylureas) in patients with type 2 diabetes mellitus. Therefore, patients may require a lower dose of sulfonylurea (or other concomitantly administered insulin secretagogues) in this setting [*see Dosage and Administration (2) and Adverse Reactions (6.1)*]. Saxenda should not be used in patients taking insulin.

Saxenda can lower blood glucose [*see Clinical Pharmacology (12.2)*]. Monitor blood glucose parameters prior to starting Saxenda and during Saxenda treatment in patients with type 2 diabetes. If needed, adjust co-administered anti-diabetic drugs based on glucose monitoring results and risk of hypoglycemia.

5.5 Heart Rate Increase

Mean increases in resting heart rate of 2 to 3 beats per minute (bpm) were observed with routine clinical monitoring in Saxenda-treated patients compared to placebo in clinical trials. More patients treated with Saxenda, compared with placebo, had changes from baseline at two consecutive visits of more than 10 bpm (34% versus 19%, respectively) and 20 bpm (5% versus 2%, respectively). At least one resting heart rate exceeding 100 bpm was recorded for 6% of Saxenda-treated patients compared with 4% of placebo-treated

patients, with this occurring at two consecutive study visits for 0.9% and 0.3%, respectively. Tachycardia was reported as an adverse reaction in 0.6% of Saxenda-treated patients and in 0.1% of placebo-treated patients.

In a clinical pharmacology trial that monitored heart rate continuously for 24 hours, Saxenda treatment was associated with a heart rate that was 4 to 9 bpm higher than that observed with placebo.

The clinical significance of the heart rate elevation with Saxenda 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 inform health care providers of palpitations or feelings of a racing heartbeat while at rest during Saxenda treatment. For patients who experience a sustained increase in resting heart rate while taking Saxenda, Saxenda should be discontinued.

5.6 Renal Impairment

In patients treated with GLP-1 receptor agonists, including Saxenda, there have been reports of acute renal failure and worsening of chronic renal failure, sometimes requiring hemodialysis [see *Adverse Reactions (6.2)*]. Some of these events were reported in patients without known underlying renal disease. A majority of the reported events occurred in patients who had experienced nausea, vomiting, or diarrhea leading to volume depletion. Some of the reported events occurred in patients receiving one or more medications known to affect renal function or volume status. Altered renal function has been reversed in many of the reported cases with supportive treatment and discontinuation of potentially causative agents, including liraglutide. Use caution when initiating or escalating doses of Saxenda in patients with renal impairment [see *Use in Specific Populations (8.6)*].

5.7 Hypersensitivity Reactions

There have been reports of serious hypersensitivity reactions (e.g., anaphylactic reactions and angioedema) in patients treated with liraglutide [see *Adverse Reactions (6.1, 6.2)*]. If a hypersensitivity reaction occurs, the patient should discontinue Saxenda and other suspect medications and promptly seek medical advice.

Angioedema has also been reported with other GLP-1 receptor agonists. Use caution in a patient with a history of angioedema with another GLP-1 receptor agonist because it is unknown whether such patients will be predisposed to angioedema with Saxenda.

5.8 Suicidal Behavior and Ideation

In Saxenda clinical trials, 6 (0.2%) of 3384 Saxenda-treated patients and none of the 1941 placebo-treated patients reported suicidal ideation; one of these Saxenda-treated patients attempted suicide. Patients treated with Saxenda should be monitored for the emergence or worsening of depression, suicidal thoughts or behavior, and/or any unusual changes in mood or behavior. Discontinue Saxenda in patients who experience suicidal thoughts or behaviors. Avoid Saxenda in patients with a history of suicidal attempts or active suicidal ideation.

6 ADVERSE REACTIONS

The following serious adverse reactions are described below or elsewhere in the prescribing information:

- Risk of Thyroid C-Cell Tumors [see *Warnings and Precautions (5.1)*]
- Acute Pancreatitis [see *Warnings and Precautions (5.2)*]
- Acute Gallbladder Disease [see *Warnings and Precautions (5.3)*]
- Risk for Hypoglycemia with Concomitant Use of Anti-Diabetic Therapy [see *Warnings and Precautions (5.4)*]
- Heart Rate Increase [see *Warnings and Precautions (5.5)*]

- Renal Impairment [see Warnings and Precautions (5.6)]
- Hypersensitivity Reactions [see Warnings and Precautions (5.7)]
- Suicidal Behavior and Ideation [see Warnings and Precautions (5.8)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical studies of another drug and may not reflect the rates observed in practice.

Saxenda was evaluated for safety in 5 double-blind, placebo controlled trials that included 3384 overweight or obese patients treated with Saxenda for a treatment period up to 56 weeks (3 trials), 52 weeks (1 trial), and 32 weeks (1 trial). All patients received study drug in addition to diet and exercise counseling. In these trials, patients received Saxenda for a mean treatment duration of 45.9 weeks (median, 55.9 weeks). Of these, 1087 Saxenda-treated patients and 497 placebo-treated patients have been exposed in their original randomized groups beyond the primary endpoint for an additional mean duration of 53.0 weeks (median, 56.9 weeks). Baseline characteristics included a mean age of 47 years, 71% women, 85% white, 39% with hypertension, 15% with type 2 diabetes, 34% with dyslipidemia, 29% with a BMI greater than 40 kg/m², and 9% with cardiovascular disease. Dosing was initiated and increased weekly to reach the 3 mg dose.

In clinical trials, 9.8% of patients treated with Saxenda and 4.3% of patients treated with placebo prematurely discontinued treatment as a result of adverse reactions. The most common adverse reactions leading to discontinuation were nausea (2.9% versus 0.2% for Saxenda and placebo, respectively), vomiting (1.7% versus less than 0.1%), and diarrhea (1.4% versus 0%).

Adverse reactions reported in greater than or equal to 2% of Saxenda-treated patients and more frequently than in placebo-treated patients are shown in Table 3.

Table 3. Adverse Reactions Reported in Greater Than or Equal to 2% of Saxenda-treated Patients and More Frequently than with Placebo

	Placebo N = 1941 %	Saxenda N = 3384 %
Gastrointestinal Disorders		
Nausea	13.8	39.3
Diarrhea	9.9	20.9
Constipation	8.5	19.4
Vomiting	3.9	15.7
Dyspepsia	2.7	9.6
Abdominal Pain	3.1	5.4
Upper Abdominal Pain	2.7	5.1
Gastroesophageal Reflux Disease	1.7	4.7
Abdominal Distension	3.0	4.5
Eructation	0.2	4.5
Flatulence	2.5	4.0
Dry Mouth	1.0	2.3
Metabolism and Nutrition Disorders		
Hypoglycemia in T2DM ¹	12.7	23.0
Decreased Appetite	2.3	10.0
Nervous System Disorders		

Headache	12.6	13.6
Dizziness	5.0	6.9
General Disorders and Administration Site Conditions		
Fatigue	4.6	7.5
Injection site Erythema	0.2	2.5
Injection Site Reaction	0.6	2.5
Asthenia	0.8	2.1
Infections and Infestations		
Gastroenteritis	3.2	4.7
Urinary Tract Infection	3.1	4.3
Viral Gastroenteritis	1.6	2.8
Investigations		
Increased Lipase	2.2	5.3
Psychiatric Disorders		
Insomnia	1.7	2.4
Anxiety	1.6	2.0

¹ Documented symptomatic (defined as documented symptoms of hypoglycemia in combination with a plasma glucose less than or equal to 70 mg/dL) in patients with type 2 diabetes (Study 2). See text below for further information regarding hypoglycemia in patients with and without type 2 diabetes. T2DM = type 2 diabetes mellitus

Hypoglycemia

Saxenda can lower blood glucose. In a clinical trial involving patients with type 2 diabetes mellitus and overweight or obesity, severe hypoglycemia (defined as requiring the assistance of another person) occurred in 3 (0.7%) of 422 Saxenda-treated patients and in none of the 212 placebo-treated patients. Each of these 3 Saxenda-treated patients was also taking a sulfonylurea. In the same trial, among patients taking a sulfonylurea, documented symptomatic hypoglycemia (defined as documented symptoms of hypoglycemia in combination with a plasma glucose less than or equal to 70 mg/dL) occurred in 48 (43.6%) of 110 Saxenda-treated patients and 15 (27.3%) of 55 placebo-treated patients. The doses of sulfonylureas were reduced by 50% at the beginning of the trial per protocol. The frequency of hypoglycemia may be higher if the dose of sulfonylurea is not reduced. Among patients not taking a sulfonylurea, documented symptomatic hypoglycemia occurred in 49 (15.7%) of 312 Saxenda-treated patients and 12 (7.6%) of 157 placebo-treated patients.

In Saxenda clinical trials involving patients without type 2 diabetes mellitus, there was no systematic capturing or reporting of hypoglycemia, as patients were not provided with blood glucose meters or hypoglycemia diaries. Spontaneously reported symptomatic episodes of unconfirmed hypoglycemia were reported by 46 (1.6%) of 2962 Saxenda-treated patients and 19 (1.1%) of 1729 placebo-treated patients. Fasting plasma glucose values obtained at routine clinic visits less than or equal to 70 mg/dL, irrespective of hypoglycemic symptoms, were reported as “hypoglycemia” in 92 (3.1%) Saxenda-treated patients and 13 (0.8%) placebo-treated patients.

Gastrointestinal Adverse Reactions

In the clinical trials, approximately 68% of Saxenda-treated patients and 39% of placebo-treated patients reported gastrointestinal disorders; the most frequently reported was nausea (39% and 14% of patients treated with Saxenda and placebo, respectively). The percentage of patients reporting nausea declined as treatment continued. Other common adverse reactions that occurred at a higher incidence among Saxenda-treated patients included diarrhea, constipation, vomiting, dyspepsia, abdominal pain, dry mouth, gastritis, gastroesophageal reflux disease, flatulence, eructation and abdominal distension. Most episodes of gastrointestinal events were mild or moderate and did not lead to discontinuation of therapy (6.2% with Saxenda versus 0.8% with placebo discontinued treatment as a result of gastrointestinal adverse reactions). There have been reports of

gastrointestinal adverse reactions, such as nausea, vomiting, and diarrhea, associated with volume depletion and renal impairment [see *Warnings and Precautions* (5.6)].

Asthenia, Fatigue, Malaise, Dysgeusia and Dizziness

Events of asthenia, fatigue, malaise, dysgeusia and dizziness were mainly reported within the first 12 weeks of treatment with Saxenda and were often co-reported with gastrointestinal events such as nausea, vomiting, and diarrhea.

Immunogenicity

Patients treated with Saxenda may develop anti-liraglutide antibodies. Anti-liraglutide antibodies were detected in 42 (2.8%) of 1505 Saxenda-treated patients with a post-baseline assessment. Antibodies that had a neutralizing effect on liraglutide in an *in vitro* assay occurred in 18 (1.2%) of 1505 Saxenda-treated patients. Presence of antibodies may be associated with a higher incidence of injection site reactions and reports of low blood glucose. In clinical trials, these events were usually classified as mild and resolved while patients continued on treatment.

The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, the incidence of antibodies to Saxenda cannot be directly compared with the incidence of antibodies of other products.

Allergic reactions

Urticaria was reported in 0.7% of Saxenda-treated patients and 0.5% of placebo-treated patients. Anaphylactic reactions, asthma, bronchial hyperreactivity, bronchospasm, oropharyngeal swelling, facial swelling, angioedema, pharyngeal edema, type IV hypersensitivity reactions have been reported in patients treated with liraglutide in clinical trials. Cases of anaphylactic reactions with additional symptoms such as hypotension, palpitations, dyspnea, and edema have been reported with marketed use of liraglutide. Anaphylactic reactions may potentially be life-threatening.

Injection site reactions

Injection site reactions were reported in approximately 13.9% of Saxenda-treated patients and 10.5% of placebo-treated patients. The most common reactions, each reported by 1% to 2.5% of Saxenda-treated patients and more commonly than by placebo-treated patients, included erythema, pruritus, and rash at the injection site. 0.6% of Saxenda-treated patients and 0.5% of placebo-treated patients discontinued treatment due to injection site reactions.

Breast Cancer

In Saxenda clinical trials breast cancer confirmed by adjudication was reported in 14 (0.6%) of 2379 Saxenda-treated women compared with 3 (0.2%) of 1300 placebo-treated women, including invasive cancer (11 Saxenda- and 2 placebo-treated women) and ductal carcinoma *in situ* (3 Saxenda- and 1 placebo-treated woman). The majority of cancers were estrogen- and progesterone-receptor positive. There were too few cases to determine whether these cases were related to Saxenda. In addition, there are insufficient data to determine whether Saxenda has an effect on pre-existing breast neoplasia.

Papillary Thyroid Cancer

In Saxenda clinical trials, papillary thyroid carcinoma confirmed by adjudication was reported in 7 (0.2%) of 3291 Saxenda-treated patients compared with no cases among 1843 placebo-treated patients. Four of these papillary thyroid carcinomas were less than 1 cm in greatest diameter and 4 were diagnosed in surgical pathology specimens after thyroidectomy prompted by findings identified prior to treatment.

Colorectal Neoplasms

In Saxenda clinical trials, benign colorectal neoplasms (mostly colon adenomas) confirmed by adjudication were reported in 17 (0.5%) of 3291 Saxenda-treated patients compared with 4 (0.2%) of 1843 placebo-treated patients. Two positively adjudicated cases of malignant colorectal carcinoma were reported in Saxenda-treated patients (0.1%) and none in placebo-treated patients.

Cardiac Conduction Disorders

In Saxenda clinical trials, 11 (0.3%) of 3384 Saxenda-treated patients compared with none of the 1941 placebo-treated patients had a cardiac conduction disorder, reported as first degree atrioventricular block, right bundle branch block, or left bundle branch block.

Hypotension

Adverse reactions related to hypotension (that is, reports of hypotension, orthostatic hypotension, circulatory collapse, and decreased blood pressure) were reported more frequently with Saxenda (1.1%) compared with placebo (0.5%) in Saxenda clinical trials. Systolic blood pressure decreases to less than 80 mmHg were observed in 4 (0.1%) Saxenda-treated patients compared with no placebo-treated patients. One of the Saxenda-treated patients had hypotension associated with gastrointestinal adverse reactions and renal failure [see *Warnings and Precautions (5.6)*].

Laboratory Abnormalities

Liver Enzymes

Increases in alanine aminotransferase (ALT) greater than or equal to 10 times the upper limit of normal were observed in 5 (0.15%) Saxenda-treated patients (two of whom had ALT greater than 20 and 40 times the upper limit of normal) compared with 1 (0.05%) placebo-treated patient during the Saxenda clinical trials. Because clinical evaluation to exclude alternative causes of ALT and aspartate aminotransferase (AST) increases was not done in most cases, the relationship to Saxenda is uncertain. Some increases in ALT and AST were associated with other confounding factors (such as gallstones).

Serum Calcitonin

Calcitonin, a biological marker of MTC, was measured throughout the clinical development program [see *Warnings and Precautions (5.1)*]. More patients treated with Saxenda in the clinical trials were observed to have high calcitonin values during treatment, compared with placebo. The proportion of patients with calcitonin greater than or equal to 2 times the upper limit of normal at the end of the trial was 1.2% in Saxenda-treated patients and 0.6% in placebo-treated patients. Calcitonin values greater than 20 ng/L at the end of the trial occurred in 0.5% of Saxenda-treated patients and 0.2% of placebo-treated patients; among patients with pre-treatment serum calcitonin less than 20 ng/L, none had calcitonin elevations to greater than 50 ng/L at the end of the trial.

Serum Lipase and Amylase

Serum lipase and amylase were routinely measured in the Saxenda clinical trials. Among Saxenda-treated patients, 2.1% had a lipase value at anytime during treatment of greater than or equal to 3 times the upper limit of normal compared with 1.0% of placebo-treated patients. 0.1% of Saxenda-treated patients had an amylase value at anytime in the trial of greater than or equal to 3 times the upper limit of normal versus 0.1% of placebo-treated patients. The clinical significance of elevations in lipase or amylase with Saxenda is unknown in the absence of other signs and symptoms of pancreatitis [see *Warnings and Precautions (5.2)*].

6.2 Post-Marketing Experience

The following adverse reactions have been reported during post-approval use of liraglutide, the active ingredient of Saxenda. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Neoplasms

Medullary thyroid carcinoma [see *Warnings and Precautions (5.1)*]

Gastrointestinal Disorders

Acute pancreatitis, hemorrhagic and necrotizing pancreatitis, sometimes resulting in death [see *Warnings and Precautions (5.2)*]

Metabolism and Nutrition Disorders

Dehydration resulting from nausea, vomiting and diarrhea [see *Adverse Reactions (6.1)*]

Renal and Urinary Disorders

Increased serum creatinine, acute renal failure or worsening of chronic renal failure, sometimes requiring hemodialysis [see *Warnings and Precautions (5.6)*]

General Disorders and Administration Site Conditions

Allergic reactions: rash and pruritus [see *Adverse Reactions (6.1)*]

Immune System Disorders

Angioedema and anaphylactic reactions [see *Warnings and Precautions (5.7)*]

Hepatobiliary Disorders

Elevations of liver enzymes, hyperbilirubinemia, cholestasis and hepatitis [see *Adverse Reactions (6.1)*]

7 DRUG INTERACTIONS

7.1 Oral Medications

Saxenda causes a delay of gastric emptying, and thereby has the potential to impact the absorption of concomitantly administered oral medications. In clinical pharmacology trials, liraglutide did not affect the absorption of the tested orally administered medications to any clinically relevant degree. Nonetheless, monitor for potential consequences of delayed absorption of oral medications concomitantly administered with Saxenda.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category X.

Risk Summary

Saxenda is contraindicated during pregnancy because weight loss offers no potential benefit to a pregnant woman and may result in fetal harm. There are no adequate and well-controlled studies of Saxenda in pregnant women. Saxenda should not be used during pregnancy. If a patient wishes to become pregnant, or pregnancy occurs, treatment with Saxenda should be discontinued.

Clinical Considerations

A minimum weight gain, and no weight loss, is recommended for all pregnant women, including those who are already overweight or obese, due to the necessary weight gain that occurs in maternal tissues during pregnancy.

Animal Data

Liraglutide has been shown to be teratogenic in rats at or above 0.8-times systemic exposures in obese humans resulting from the maximum recommended human dose (MRHD) of 3 mg/day based on plasma area under the time-concentration curve (AUC) comparison. Liraglutide has been shown to cause reduced growth and increased total major abnormalities in rabbits at systemic exposures below exposure in obese humans at the MRHD based on plasma AUC comparison.

Female rats given subcutaneous doses of 0.1, 0.25 and 1 mg/kg/day liraglutide beginning 2 weeks before mating through gestation day 17 had estimated systemic exposures 0.8-, 3-, and 11-times the exposure in obese humans at the MRHD based on plasma AUC comparison. The number of early embryonic deaths in the 1 mg/kg/day group increased slightly. Fetal abnormalities and variations in kidneys and blood vessels, irregular ossification of the skull, and a more complete state of ossification occurred at all doses. Mottled liver and minimally kinked ribs occurred at the highest dose. The incidence of fetal malformations in liraglutide-treated groups exceeding concurrent and historical controls were misshapen oropharynx and/or narrowed opening into larynx at 0.1 mg/kg/day and umbilical hernia at 0.1 and 0.25 mg/kg/day.

Pregnant rabbits given subcutaneous doses of 0.01, 0.025 and 0.05 mg/kg/day liraglutide from gestation day 6 through day 18 inclusive, had estimated systemic exposures less than the exposure in obese humans at the MRHD of 3 mg/day at all doses, based on plasma AUC comparison. Liraglutide decreased fetal weight and dose-dependently increased the incidence of total major fetal abnormalities at all doses. The incidence of malformations exceeded concurrent and historical controls at 0.01 mg/kg/day (kidneys, scapula), greater than or equal to 0.01 mg/kg/day (eyes, forelimb), 0.025 mg/kg/day (brain, tail and sacral vertebrae, major blood vessels and heart, umbilicus), greater than or equal to 0.025 mg/kg/day (sternum) and at 0.05 mg/kg/day (parietal bones, major blood vessels). Irregular ossification and/or skeletal abnormalities occurred in the skull and jaw, vertebrae and ribs, sternum, pelvis, tail, and scapula; and dose-dependent minor skeletal variations were observed. Visceral abnormalities occurred in blood vessels, lung, liver, and esophagus. Bilobed or bifurcated gallbladder was seen in all treatment groups, but not in the control group.

In pregnant female rats given subcutaneous doses of 0.1, 0.25 and 1 mg/kg/day liraglutide from gestation day 6 through weaning or termination of nursing on lactation day 24, estimated systemic exposures were 0.8-, 3-, and 11-times exposure in obese humans at the MRHD of 3 mg/day, based on plasma AUC comparison. A slight delay in parturition was observed in the majority of treated rats. Group mean body weight of neonatal rats from liraglutide-treated dams was lower than neonatal rats from control group dams. Bloody scabs and agitated behavior occurred in male rats descended from dams treated with 1 mg/kg/day liraglutide. Group mean body weight from birth to postpartum day 14 trended lower in F₂ generation rats descended from liraglutide-treated rats compared to F₂ generation rats descended from controls, but differences did not reach statistical significance for any group.

8.3 Nursing Mothers

It is not known whether Saxenda is excreted in human milk. Because many drugs are excreted in human milk and because of the potential for tumorigenicity shown for liraglutide in animal studies, a decision should be made whether to discontinue nursing or to discontinue Saxenda, taking into account the importance of the drug to the mother. In lactating rats, liraglutide was excreted unchanged in milk at concentrations approximately 50% of maternal plasma concentrations.

8.4 Pediatric Use

Safety and effectiveness of Saxenda have not been established in pediatric patients. Saxenda is not recommended for use in pediatric patients.

8.5 Geriatric Use

In the Saxenda clinical trials, 232 (6.9%) of the Saxenda-treated patients were 65 years of age and over, and 17 (0.5%) of the Saxenda-treated patients were 75 years of age and over. No overall differences in safety or effectiveness were observed between these patients and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

8.6 Renal Impairment

There is limited experience with Saxenda in patients with mild, moderate, and severe renal impairment, including end-stage renal disease. However, there have been postmarketing reports of acute renal failure and worsening of chronic renal failure with liraglutide, which may sometimes require hemodialysis [see *Warnings and Precautions (5.6) and Adverse Reactions (6.2)*]. Saxenda should be used with caution in this patient population [see *Clinical Pharmacology (12.3)*].

8.7 Hepatic Impairment

There is limited experience in patients with mild, moderate, or severe hepatic impairment. Therefore, Saxenda should be used with caution in this patient population [see *Clinical Pharmacology (12.3)*].

8.8 Gastroparesis

Saxenda slows gastric emptying. Saxenda has not been studied in patients with pre-existing gastroparesis.

10 OVERDOSAGE

Overdoses have been reported in clinical trials and post-marketing use of liraglutide. Effects have included severe nausea and severe vomiting. In the event of overdose, appropriate supportive treatment should be initiated according to the patient's clinical signs and symptoms.

11 DESCRIPTION

Saxenda contains liraglutide, an analog of human GLP-1 and acts as a GLP-1 receptor agonist. The peptide precursor of liraglutide, produced by a process that includes expression of recombinant DNA in *Saccharomyces cerevisiae*, has been engineered to be 97% homologous to native human GLP-1 by substituting arginine for lysine at position 34. Liraglutide is made by attaching a C-16 fatty acid (palmitic acid) with a glutamic acid spacer on the remaining lysine residue at position 26 of the peptide precursor. The molecular formula of liraglutide is $C_{172}H_{265}N_{43}O_{51}$ and the molecular weight is 3751.2 Daltons. The structural formula (Figure 1) is:

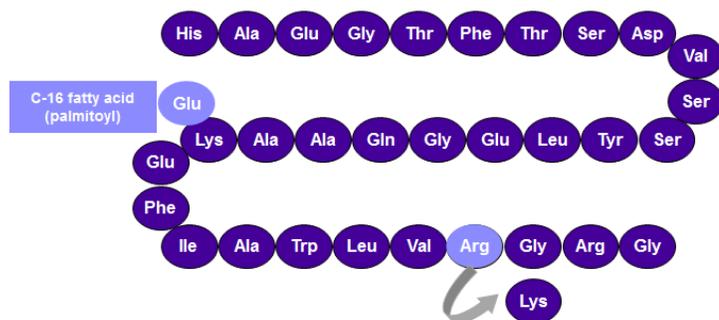


Figure 1. Structural Formula of liraglutide

Saxenda is a clear, colorless solution. Each 1 mL of Saxenda solution contains 6 mg of liraglutide and the following inactive ingredients: disodium phosphate dihydrate, 1.42 mg; propylene glycol, 14 mg; phenol, 5.5 mg; and water for injection. Each pre-filled pen contains a 3 mL solution of Saxenda equivalent to 18 mg liraglutide (free-base, anhydrous).

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Liraglutide is an acylated human glucagon-like peptide-1 (GLP-1) receptor agonist with 97% amino acid sequence homology to endogenous human GLP-1(7-37). Like endogenous GLP-1, liraglutide binds to and activates the GLP-1 receptor, a cell-surface receptor coupled to adenylyl cyclase activation through the stimulatory G-protein, G_s. Endogenous GLP-1 has a half-life of 1.5-2 minutes due to degradation by the

ubiquitous endogenous enzymes, dipeptidyl peptidase 4 (DPP-4) and neutral endopeptidases (NEP). Unlike native GLP-1, liraglutide is stable against metabolic degradation by both peptidases and has a plasma half-life of 13 hours after subcutaneous administration. The pharmacokinetic profile of liraglutide, which makes it suitable for once-daily administration, is a result of self-association that delays absorption, plasma protein binding, and stability against metabolic degradation by DPP-4 and NEP.

GLP-1 is a physiological regulator of appetite and calorie intake, and the GLP-1 receptor is present in several areas of the brain involved in appetite regulation. In animal studies, peripheral administration of liraglutide resulted in the presence of liraglutide in specific brain regions regulating appetite, including the hypothalamus. Although liraglutide activated neurons in brain regions known to regulate appetite, specific brain regions mediating the effects of liraglutide on appetite were not identified in rats.

12.2 Pharmacodynamics

Liraglutide lowers body weight through decreased calorie intake. Liraglutide does not increase 24-hour energy expenditure.

As with other GLP-1 receptor agonists, liraglutide stimulates insulin secretion and reduces glucagon secretion in a glucose-dependent manner. These effects can lead to a reduction of blood glucose.

Cardiac Electrophysiology (QTc) in healthy volunteers

The effect of liraglutide on cardiac repolarization was tested in a QTc study. Liraglutide at steady-state concentrations after daily doses up to 1.8 mg did not produce QTc prolongation. The maximum liraglutide plasma concentration (C_{\max}) in overweight and obese subjects treated with liraglutide 3 mg is similar to the C_{\max} observed in the liraglutide QTc study in healthy volunteers.

12.3 Pharmacokinetics

Absorption - Following subcutaneous administration, maximum concentrations of liraglutide are achieved at 11 hours post dosing. The average liraglutide steady state concentration ($AUC_{\tau/24}$) reached approximately 116 ng/mL in obese (BMI 30-40 kg/m²) subjects following administration of Saxenda. Liraglutide exposure increased proportionally in the dose range of 0.6 mg to 3 mg. The intra-subject coefficient of variation for liraglutide AUC was 11% following single dose administration. Liraglutide exposures were considered similar among three subcutaneous injection sites (upper arm, abdomen, and thigh). Absolute bioavailability of liraglutide following subcutaneous administration is approximately 55%.

Distribution - The mean apparent volume of distribution after subcutaneous administration of liraglutide 3 mg is 20-25 L (for a person weighing approximately 100 kg). The mean volume of distribution after intravenous administration of liraglutide is 0.07 L/kg. Liraglutide is extensively bound to plasma protein (greater than 98%).

Metabolism - During the initial 24 hours following administration of a single [3H]-liraglutide dose to healthy subjects, the major component in plasma was intact liraglutide. Liraglutide is endogenously metabolized in a similar manner to large proteins without a specific organ as a major route of elimination.

Elimination - Following a [3H]-liraglutide dose, intact liraglutide was not detected in urine or feces. Only a minor part of the administered radioactivity was excreted as liraglutide-related metabolites in urine or feces (6% and 5%, respectively). The majority of urine and feces radioactivity was excreted during the first 6-8 days. The mean apparent clearance following subcutaneous administration of a single dose of liraglutide is approximately 0.9-1.4 L/h with an elimination half-life of approximately 13 hours, making liraglutide suitable for once daily administration.

Specific Populations

Elderly - No dosage adjustment is required based on age. Age had no effect on the pharmacokinetics of liraglutide based on a pharmacokinetic study in healthy elderly subjects (65 to 83 years) and population pharmacokinetic analyses of data from overweight and obese patients 18 to 82 years of age [*see Use in Specific Populations (8.5)*].

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

Race and Ethnicity - Race and ethnicity had no effect on the pharmacokinetics of liraglutide based on the results of population pharmacokinetic analyses that included overweight and obese patients of Caucasian, Black, Asian and Hispanic/Non-Hispanic groups.

Body Weight - Body weight significantly affects the pharmacokinetics of liraglutide based on results of population pharmacokinetic analyses conducted in patients with body weight range of 60-234 kg. The exposure of liraglutide decreases as baseline body weight increases.

Pediatric - Saxenda has not been studied in pediatric patients [*see Use in Specific Populations (8.4)*].

Renal Impairment - The single-dose pharmacokinetics of liraglutide were evaluated in subjects with varying degrees of renal impairment. Subjects with mild (estimated creatinine clearance 50-80 mL/min) to severe (estimated creatinine clearance less than 30 mL/min) renal impairment and subjects with end-stage renal disease requiring dialysis were included in the trial. Compared to healthy subjects, liraglutide AUC in mild, moderate, and severe renal impairment and in end-stage renal disease was on average 35%, 19%, 29% and 30% lower, respectively [*see Use in Specific Populations (8.6)*].

Hepatic Impairment - The single-dose pharmacokinetics of liraglutide were evaluated in subjects with varying degrees of hepatic impairment. Subjects with mild (Child Pugh score 5-6) to severe (Child Pugh score greater than 9) hepatic impairment were included in the trial. Compared to healthy subjects, liraglutide AUC in subjects with mild, moderate and severe hepatic impairment was on average 11%, 14% and 42% lower, respectively [*see Use in Specific Populations (8.7)*].

Drug Interactions

In vitro assessment of drug–drug interactions

Liraglutide has low potential for pharmacokinetic drug-drug interactions related to cytochrome P450 (CYP) and plasma protein binding.

In vivo assessment of drug–drug interactions

The drug-drug interaction studies were performed at steady state with liraglutide 1.8 mg/day. The effect on rate of gastric emptying was equivalent between liraglutide 1.8 mg and 3 mg (acetaminophen AUC_{0-300min}). Administration of the interacting drugs was timed so that C_{max} of liraglutide (8-12 h) would coincide with the absorption peak of the co-administered drugs.

Oral Contraceptives

A single dose of an oral contraceptive combination product containing 0.03 mg ethinylestradiol and 0.15 mg levonorgestrel was administered under fed conditions and 7 hours after the dose of liraglutide at steady state. Liraglutide lowered ethinylestradiol and levonorgestrel C_{max} by 12% and 13%, respectively. There was no effect of liraglutide on the overall exposure (AUC) of ethinylestradiol. Liraglutide increased the levonorgestrel AUC_{0-∞} by 18%. Liraglutide delayed T_{max} for both ethinylestradiol and levonorgestrel by 1.5 h.

Digoxin

A single dose of digoxin 1 mg was administered 7 hours after the dose of liraglutide at steady state. The concomitant administration with liraglutide resulted in a reduction of digoxin AUC by 16%; C_{\max} decreased by 31%. Digoxin median time to maximal concentration (T_{\max}) was delayed from 1 h to 1.5 h.

Lisinopril

A single dose of lisinopril 20 mg was administered 5 minutes after the dose of liraglutide at steady state. The co-administration 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.

Atorvastatin

Liraglutide did not change the overall exposure (AUC) of atorvastatin following a single dose of atorvastatin 40 mg, administered 5 hours after the dose of liraglutide at steady state. Atorvastatin C_{\max} was decreased by 38% and median T_{\max} was delayed from 1 h to 3 h with liraglutide.

Acetaminophen

Liraglutide did not change the overall exposure (AUC) of acetaminophen following a single dose of acetaminophen 1000 mg, administered 8 hours after the dose of liraglutide at steady state. Acetaminophen C_{\max} was decreased by 31% and median T_{\max} was delayed up to 15 minutes.

Griseofulvin

Liraglutide did not change the overall exposure (AUC) of griseofulvin following co-administration of a single dose of griseofulvin 500 mg with liraglutide at steady state. Griseofulvin C_{\max} increased by 37% while median T_{\max} did not change.

Insulin Detemir

No pharmacokinetic interaction was observed between liraglutide and insulin detemir when separate subcutaneous injections of insulin detemir 0.5 Unit/kg (single-dose) and liraglutide 1.8 mg (steady state) were administered to patients with type 2 diabetes mellitus.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

A 104-week carcinogenicity study was conducted in male and female CD-1 mice at doses of 0.03, 0.2, 1, and 3 mg/kg/day liraglutide administered by bolus subcutaneous injection yielding systemic exposures 0.2-, 2-, 10- and 43-times the exposure in obese humans, respectively, at the maximum recommended human dose (MRHD) of 3 mg/day based on plasma AUC comparison. A dose-related increase in benign thyroid C-cell adenomas was seen in the 1 and the 3 mg/kg/day groups with incidences of 13% and 19% in males and 6% and 20% in females, respectively. C-cell adenomas did not occur in control groups or 0.03 and 0.2 mg/kg/day groups. Treatment-related malignant C-cell carcinomas occurred in 3% of females in the 3 mg/kg/day group. Thyroid C-cell tumors are rare findings during carcinogenicity testing in mice. A treatment-related increase in fibrosarcomas was seen on the dorsal skin and subcutis, the body surface used for drug injection, in males in the 3 mg/kg/day group. These fibrosarcomas were attributed to the high local concentration of drug near the injection site. The liraglutide concentration in the clinical formulation (6 mg/mL) is 10-times higher than the concentration in the formulation used to administer 3 mg/kg/day liraglutide to mice in the carcinogenicity study (0.6 mg/mL).

A 104-week carcinogenicity study was conducted in male and female Sprague Dawley rats at doses of 0.075, 0.25 and 0.75 mg/kg/day liraglutide administered by bolus subcutaneous injection with exposures 0.5-, 2- and 7-times the exposure in obese humans, respectively, resulting from the MRHD based on plasma AUC comparison. A treatment-related increase in benign thyroid C-cell adenomas was seen in males in 0.25 and 0.75

mg/kg/day liraglutide groups with incidences of 12%, 16%, 42%, and 46% and in all female liraglutide-treated groups with incidences of 10%, 27%, 33%, and 56% in 0 (control), 0.075, 0.25, and 0.75 mg/kg/day groups, respectively. A treatment-related increase in malignant thyroid C-cell carcinomas was observed in all male liraglutide-treated groups with incidences of 2%, 8%, 6%, and 14% and in females at 0.25 and 0.75 mg/kg/day with incidences of 0%, 0%, 4%, and 6% in 0 (control), 0.075, 0.25, and 0.75 mg/kg/day groups, respectively. Thyroid C-cell carcinomas are rare findings during carcinogenicity testing in rats.

Studies in mice demonstrated that liraglutide-induced C-cell proliferation was dependent on the GLP-1 receptor and that liraglutide did not cause activation of the REarranged during Transfection (RET) proto-oncogene in thyroid C-cells.

Human relevance of thyroid C-cell tumors in mice and rats is unknown and has not been determined by clinical studies or nonclinical studies [see *Boxed Warning and Warnings and Precautions (5.1)*].

Liraglutide was negative with and without metabolic activation in the Ames test for mutagenicity and in a human peripheral blood lymphocyte chromosome aberration test for clastogenicity. Liraglutide was negative in repeat-dose *in vivo* micronucleus tests in rats.

In rat fertility studies using subcutaneous doses of 0.1, 0.25 and 1 mg/kg/day liraglutide, males were treated for 4 weeks prior to and throughout mating and females were treated 2 weeks prior to and throughout mating until gestation day 17. No direct adverse effects on male fertility was observed at doses up to 1 mg/kg/day, a high dose yielding an estimated systemic exposure 11-times the exposure in obese humans at the MRHD, based on plasma AUC comparison. In female rats, an increase in early embryonic deaths occurred at 1 mg/kg/day. Reduced body weight gain and food consumption were observed in females at the 1 mg/kg/day dose.

14 CLINICAL STUDIES

The safety and efficacy of Saxenda for chronic weight management in conjunction with reduced caloric intake and increased physical activity were studied in three 56-week, randomized, double-blind, placebo-controlled trials. In all studies, Saxenda was titrated to 3 mg daily during a 4-week period. All patients received instruction for a reduced calorie diet (approximately 500 kcal/day deficit) and exercise counseling (recommended increase in physical activity of minimum 150 mins/week) that began with the first dose of study medication or placebo and continued throughout the trial.

Study 1 was a 56-week trial that enrolled 3731 patients with obesity (BMI greater than or equal to 30 kg/m²) or with overweight (BMI 27-29.9 kg/m²) and at least one weight-related comorbid condition such as treated or untreated dyslipidemia or hypertension; patients with type 2 diabetes mellitus were excluded. Patients were randomized in a 2:1 ratio to either Saxenda or placebo. The mean age was 45 years (range 18-78), 79% were women, 85% were Caucasian, 10% were African American, and 11% were Hispanic/Latino. Mean baseline body weight was 106.3 kg and mean BMI was 38.3 kg/m².

Study 2 was a 56-week trial that enrolled 635 patients with type 2 diabetes and with either overweight or obesity (as defined above). Patients were to have an HbA_{1c} of 7-10% and be treated with metformin, a sulfonylurea, or a glitazone as single agent or in any combination, or with diet and exercise alone. Patients were randomized in a 2:1 ratio to receive either Saxenda or placebo. The mean age was 55 years (range 18-82), 50% were women, 83% were Caucasian, 12% were African American, and 10% were Hispanic/Latino. Mean baseline body weight was 105.9 kg and mean BMI was 37.1 kg/m².

Study 3 was a 56-week trial that enrolled 422 patients with obesity (BMI greater than or equal to 30 kg/m²) or with overweight (BMI 27-29.9 kg/m²) and at least one weight-related comorbid condition such as treated or untreated dyslipidemia or hypertension; patients with type 2 diabetes mellitus were excluded. All patients were

first treated with a low-calorie diet (total energy intake 1200-1400 kcal/day) in a run-in period lasting up to 12 weeks. Patients who lost at least 5% of their screening body weight after 4 to 12 weeks during the run-in were then randomized, with equal allocation, to receive either Saxenda or placebo for 56 weeks. The mean age was 46 years (range 18-73), 81% were women, 84% were Caucasian, 13% were African American, and 7% were Hispanic/Latino. Mean baseline body weight was 99.6 kg and mean BMI was 35.6 kg/m².

The proportions of patients who discontinued study drug in the 56-week trials were 27% for the Saxenda-treated group and 35% for the placebo-treated group. Approximately 10% of patients treated with Saxenda and 4% of patients treated with placebo discontinued treatment due to an adverse reaction [see *Adverse Reactions (6.1)*]. The majority of patients who discontinued Saxenda due to adverse reactions did so during the first few months of treatment.

Effect of Saxenda on Body Weight

For Study 1 and Study 2, the primary efficacy parameters were mean percent change in body weight and the percentages of patients achieving greater than or equal to 5% and 10% weight loss from baseline to week 56. For Study 3, the primary efficacy parameters were mean percent change in body weight from randomization to week 56, the percentage of patients not gaining more than 0.5% body weight from randomization (i.e., after run-in) to week 56, and the percentage of patients achieving greater than or equal to 5% weight loss from randomization to week 56. Because losing at least 5% of fasting body weight through lifestyle intervention during the 4- to 12-week run-in was a condition for their continued participation in the randomized treatment period, the results may not reflect those expected in the general population.

Table 4 presents the results for the changes in weight observed in Studies 1, 2, and 3. After 56 weeks, treatment with Saxenda resulted in a statistically significant reduction in weight compared with placebo. Statistically significantly greater proportions of patients treated with Saxenda achieved 5% and 10% weight loss than those treated with placebo. In Study 3, statistically significantly more patients randomized to Saxenda than placebo had not gained more than 0.5% of body weight from randomization to week 56.

Table 4. Changes in Weight at Week 56 for Studies 1, 2, and 3

	Study 1 (Obesity or overweight with comorbidity)		Study 2 (Type 2 diabetes with obesity or overweight)		Study 3 (Obesity or overweight with comorbidity following at least 5% weight loss with diet)	
	Saxenda N=2487	Placebo N=1244	Saxenda N=423	Placebo N=212	Saxenda N=212	Placebo N=210
Weight						
Baseline mean (SD) (kg)	106.2 (21.2)	106.2 (21.7)	105.7 (21.9)	106.5 (21.3)	100.4 (20.8)	98.7 (21.2)
Percent change from baseline (LSMean)	-7.4	-3.0	-5.4	-1.7	-4.9	0.3
Difference from placebo (LSMean) (95% CI)	-4.5* (-5.2;-3.8)		-3.7* (-4.7;-2.7)		-5.2* (-6.8;-3.5)	
% of Patients losing greater than or equal to 5% body weight	62.3%	34.4%	49.0%	16.4%	44.2%	21.7%
Difference from placebo (LSMean) (95% CI)	27.9* (23.9;31.9)		32.6* (25.1;40.1)		22.6* (13.9;31.3)	

% of Patients losing greater than 10% body weight	33.9%	15.4%	22.4%	5.5%	25.4%	6.9%
Difference from placebo (LSMean) (95% CI)	18.5* (15.2;21.7)		16.9* (11.7;22.1)		18.5* (11.7;25.3)	

SD = Standard Deviation; CI = Confidence Interval

* p < 0.0001 compared to placebo. Type 1 error was controlled across the three endpoints.

Includes all randomized subjects who had a baseline body weight measurement. All available body weight data during the 56 week treatment period are included in the analysis. In Studies 1 and 2 missing values for week 56 were handled using multiple imputations analysis. In Study 3 missing values for week 56 were handled using weighted regression analysis.

The cumulative frequency distributions of change in body weight from baseline to week 56 are shown in Figure 2 for Studies 1 and 2. One way to interpret this figure is to select a change in body weight of interest on the horizontal axis and note the corresponding proportions of patients (vertical axis) in each treatment group who achieved at least that degree of weight loss. For example, note that the vertical line arising from -10% in Study 1 intersects the Saxenda and placebo curves at approximately 34% and 15%, respectively, which correspond to the values shown in Table 4.

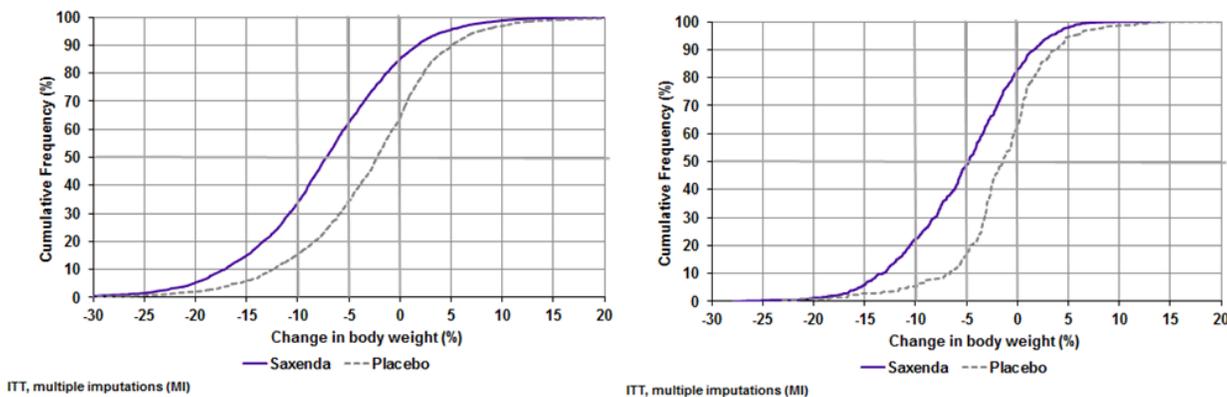


Figure 2. Change in body weight (%) from baseline to week 56 (Study 1 on left and Study 2 on right)

The time courses of weight loss with Saxenda and placebo from baseline through week 56 are depicted in Figures 3 and 4.

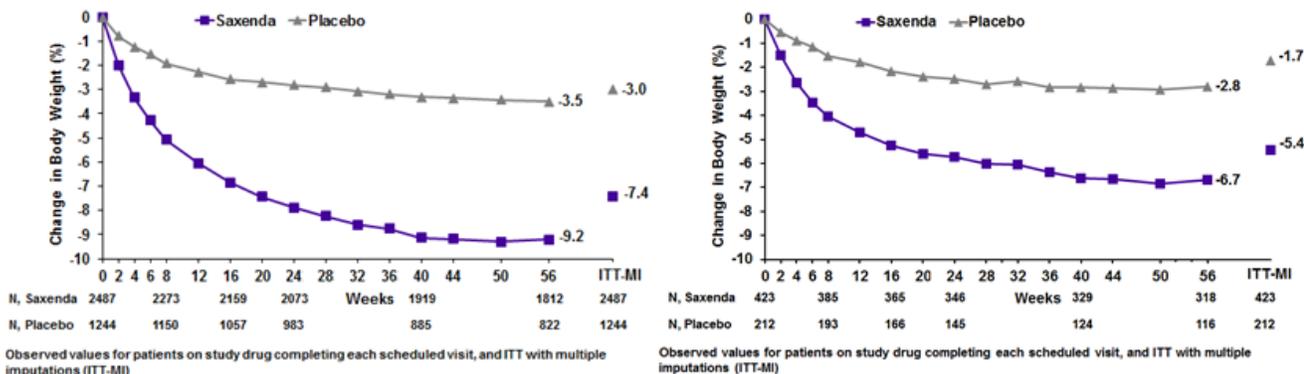
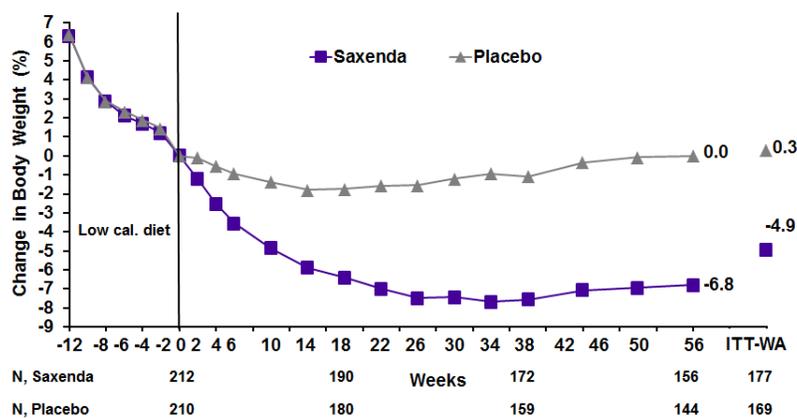


Figure 3. Change from baseline (%) in body weight (Study 1 on left and Study 2 on right)



Observed values for patients on study drug completing each scheduled visit, and ITT with weighted average (ITT-WA)

Figure 4. Change from baseline (%) in body weight during Study 3

Effect of Saxenda on Anthropometry and Cardiometabolic Parameters

Changes in waist circumference and cardiometabolic parameters with Saxenda are shown in Table 5 for Study 1 (patients without diabetes mellitus) and Table 6 for Study 2 (patients with type 2 diabetes). Results from Study 3, which also enrolled patients without diabetes mellitus, were similar to Study 1.

Table 5. Mean Changes in Anthropometry and Cardiometabolic Parameters in Study 1 (Patients without Diabetes)

	Saxenda N = 2487		Placebo N = 1244		Saxenda minus Placebo (LSMean)
	Baseline	Change from Baseline (LSMean ¹)	Baseline	Change from Baseline (LSMean ¹)	
Waist Circumference (cm)	115.0	-8.2	114.5	-4.0	-4.2
Systolic blood pressure (mmHg)	123.0	-4.3	123.3	-1.5	-2.8
Diastolic blood pressure (mmHg)	78.7	-2.7	78.9	-1.8	-0.9
Heart Rate (bpm)	71.4	2.6	71.3	0.1	2.5
	Baseline	% change from Baseline (LSMean ¹)	Baseline	% change from Baseline (LSMean ¹)	Relative Difference of Saxenda to Placebo (LSMean)
Total Cholesterol (mg/dL)*	193.8	-3.2	194.4	-0.9	-2.3
LDL Cholesterol (mg/dL)*	111.8	-3.1	112.3	-0.7	-2.4
HDL Cholesterol (mg/dL)*	51.4	2.3	50.9	0.5	1.9
Triglycerides (mg/dL)†	125.7	-13.0	128.3	-4.1	-7.1

Based on last observation carried forward method while on study drug

¹ Least squares mean adjusted for treatment, country, sex, pre-diabetes status at screening, baseline BMI stratum and an interaction between pre-diabetes status at screening and BMI stratum as fixed factors, and the baseline value as covariate.

* Baseline value is the geometric mean

† Values are baseline median, median % change, and the Hodges-Lehmann estimate of the median treatment difference.

Table 6. Mean Changes in Anthropometry and Cardiometabolic Parameters in Study 2 (Patients with Diabetes Mellitus)

	Saxenda N = 423		Placebo N = 212		Saxenda minus Placebo (LSMean)
	Baseline	Change from Baseline (LSMean ¹)	Baseline	Change from Baseline (LSMean ¹)	
Waist Circumference (cm)	118.1	-6.0	117.3	-2.8	-3.2
Systolic Blood Pressure (mmHg)	128.9	-3.0	129.2	-0.4	-2.6
Diastolic Blood Pressure (mmHg)	79.0	-1.0	79.3	-0.6	-0.4
Heart Rate (bpm)	74.0	2.0	74.0	-1.5	3.4
	Baseline	% change from Baseline (LSMean ¹)	Baseline	% change from Baseline (LSMean ¹)	Relative Difference of Saxenda to Placebo (LSMean)
Total Cholesterol (mg/dL)*	171.0	-1.4	169.4	2.4	-3.7
LDL Cholesterol (mg/dL)*	86.4	0.9	85.2	3.3	-2.3
HDL Cholesterol (mg/dL)*	45.2	4.8	45.4	1.9	2.9
Triglycerides (mg/dL)†	156.2	-14.5	155.8	-0.7	-13.5

Based on last observation carried forward method while on study drug

¹Least squares mean adjusted for treatment, country, sex, background treatment, baseline HbA_{1c} stratum and an interaction between background treatment and HbA_{1c} stratum as fixed factors, and the baseline value as covariate.

* Baseline value is the geometric mean

†Values are baseline median, median % change, and the Hodges-Lehmann estimate of the median treatment difference.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Saxenda is available in the following package sizes containing disposable, pre-filled, multi-dose pens. Each individual pen delivers doses of 0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg or 3 mg (6 mg/mL, 3 mL).

3 x Saxenda pen NDC 0169-2800-13

5 x Saxenda pen NDC 0169-2800-15

Each Saxenda pen is for use by a single patient. A Saxenda pen should never be shared between patients, even if the needle is changed.

16.2 Recommended Storage

Prior to first use, Saxenda should be stored in a refrigerator between 36°F to 46°F (2°C to 8°C) (Table 7). Do not store in the freezer or directly adjacent to the refrigerator cooling element. Do not freeze Saxenda and do not use Saxenda if it has been frozen.

After initial use of the Saxenda pen, the pen can be stored for 30 days at controlled room temperature (59°F to 86°F; 15°C to 30°C) or in a refrigerator (36°F to 46°F; 2°C to 8°C). Keep the pen cap on when not in use. Saxenda should be protected from excessive heat and sunlight. Always remove and safely discard the needle after each injection and store the Saxenda pen without an injection needle attached. This will reduce the potential for contamination, infection, and leakage while also ensuring dosing accuracy.

Table 7. Recommended Storage Conditions for Saxenda

Prior to first use	After first use	
Refrigerated 36°F to 46°F (2°C to 8°C)	Room Temperature 59°F to 86°F (15°C to 30°C)	Refrigerated 36°F to 46°F (2°C to 8°C)
Until expiration date	30 days	

17 PATIENT COUNSELING INFORMATION

17.1 FDA-Approved Medication Guide

See FDA-Approved Medication Guide.

17.2 Instructions

Saxenda is indicated for chronic weight management in conjunction with a reduced-calorie diet and increased physical activity.

Advise patients to take Saxenda exactly as prescribed. Patients should be instructed to follow the dose escalation schedule and not to take more than the recommended dose of Saxenda.

Instruct patients to discontinue use of Saxenda if they have not achieved 4% weight loss by 16 weeks of treatment.

17.3 Risk of Thyroid C-cell Tumors

Inform patients that liraglutide causes benign and malignant thyroid C-cell tumors in mice and rats and that the human relevance of this finding has not been determined. Counsel patients to report symptoms of thyroid tumors (e.g., a lump in the neck, hoarseness, dysphagia or dyspnea) to their physician [*see Boxed Warning and Warnings and Precautions (5.1)*].

17.4 Acute Pancreatitis

Patients should be informed of the potential risk for acute pancreatitis. Explain that persistent severe abdominal pain that may radiate to the back and which may or may not be accompanied by vomiting, is the hallmark symptom of acute pancreatitis. Instruct patients to discontinue Saxenda promptly and contact their physician if persistent severe abdominal pain occurs.

17.5 Acute Gallbladder Disease

Patients should be informed that substantial or rapid weight loss can increase the risk of cholelithiasis. Cholelithiasis may also occur in the absence of substantial or rapid weight loss. Patients should be instructed to contact their physician if cholelithiasis is suspected for appropriate clinical follow-up.

17.6 Hypoglycemia in Patients with Type 2 Diabetes Mellitus on Anti-Diabetic Therapy

Patients with type 2 diabetes mellitus on anti-diabetic therapy should be advised to monitor their blood glucose levels and report symptoms of hypoglycemia to their physician.

17.7 Heart Rate Increase

Patients should be informed to report symptoms of sustained periods of heart pounding or racing while at rest to their physician. For patients who experience a sustained increase in resting heart rate while taking Saxenda, Saxenda should be discontinued.

17.8 Dehydration and Renal Impairment

Patients treated with Saxenda should be advised of the potential risk of dehydration due to gastrointestinal adverse reactions and take precautions to avoid fluid depletion. Patients should be informed of the potential risk for worsening renal function, which in some cases may require dialysis.

17.9 Hypersensitivity Reactions

Patients should be informed that serious hypersensitivity reactions have been reported during use of liraglutide. If symptoms of hypersensitivity reactions occur, patients must stop taking Saxenda and seek medical advice promptly.

17.10 Suicidal Behavior and Ideation

Patients treated with Saxenda should be advised to report emergence or worsening of depression, suicidal thoughts or behavior, and/or any unusual changes in mood or behavior. Patients should be informed that if they experience suicidal thoughts or behaviors, Saxenda should be discontinued.

17.11 Jaundice and Hepatitis

Inform patients that jaundice and hepatitis have been reported during postmarketing use of liraglutide. Instruct patients to contact their physician if they develop jaundice.

17.12 Never Share a Saxenda Pen Between Patients

Patients should be informed that they should never share a Saxenda pen with another person, even if the needle is changed. Sharing of the pen between patients may pose a risk of transmission of infection.

Version: 1

Saxenda[®] and Victoza[®] are registered trademarks of Novo Nordisk A/S.

Saxenda[®] is covered by US Patent Nos. 6,268,343, 6,458,924, 7,235,627, 8,114,833 and other patents pending.

Saxenda[®] pen is covered by US Patent Nos. 6,899,699, 7,686,786, 8,672,898, 8,684,969 and other patents pending.

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Manufactured by:
Novo Nordisk A/S
DK-2880 Bagsvaerd, Denmark

For information about Saxenda contact:
Novo Nordisk Inc.
800 Scudders Mill Road
Plainsboro, NJ 08536

1-844-363-4448

Medication Guide
Saxenda® (sax-end-ah)
(liraglutide [rDNA origin])
Injection

Read this Medication Guide and Patient Instructions for Use that come with Saxenda before you start using Saxenda and each time you get a refill. There may be new information. This Medication Guide does not take the place of talking with your healthcare provider about your medical condition or your treatment. If you have questions about Saxenda after reading this information, ask your healthcare provider or pharmacist.

What is the most important information I should know about Saxenda?

Serious side effects may happen in people who take Saxenda, including:

1. Possible thyroid tumors, including cancer. During the drug testing process, the medicine in Saxenda caused rats and mice to develop tumors of the thyroid gland. Some of these tumors were cancers. It is not known if Saxenda will cause thyroid tumors or a type of thyroid cancer called medullary thyroid cancer in people. If medullary thyroid cancer occurs, it may lead to death if not detected and treated early. If you develop tumors or cancer of the thyroid, your thyroid may have to be surgically removed.

- Before you start taking Saxenda, tell your healthcare provider if you or any of your family members have had thyroid cancer, especially medullary thyroid cancer, or Multiple Endocrine Neoplasia syndrome type 2. Do not take Saxenda if you or any of your family members have medullary thyroid cancer, or if you have Multiple Endocrine Neoplasia syndrome type 2. People with these conditions already have a higher chance of developing medullary thyroid cancer in general and should not take Saxenda.
- While taking Saxenda, tell your healthcare provider if you get a lump or swelling in your neck, hoarseness, trouble swallowing, or shortness of breath. These may be symptoms of thyroid cancer.

2. Inflammation of the pancreas (pancreatitis), which may be severe and lead to death.

Before taking Saxenda, tell your healthcare provider if you have had:

- pancreatitis
- stones in your gallbladder (gallstones)
- a history of alcoholism
- high blood triglyceride levels

These medical conditions can make you more likely to get pancreatitis in general. It is not known if having these conditions will lead to a higher chance of getting pancreatitis while taking Saxenda.

While taking Saxenda:

Stop taking Saxenda and call your healthcare provider right away if you have pain in your stomach area (abdomen) that is severe and will not go away. The pain may happen with or without vomiting. The pain may be felt going from your abdomen through to your back. This type of pain may be a symptom of pancreatitis.

What is Saxenda?

- Saxenda is an injectable prescription medicine that may help some obese adults or overweight adults who also have weight related medical problems lose weight and keep the weight off.
- Saxenda should be used with a reduced calorie diet and increased physical activity.
- Saxenda is not for the treatment of type 2 diabetes mellitus.
- Saxenda and Victoza[®] have the same active ingredient, liraglutide. Saxenda and Victoza should not be used together.
- Saxenda should not be used with other GLP-1 receptor agonist medicines.
- Saxenda and insulin should not be used together.
- It is not known if Saxenda is safe and effective when taken with other prescription, over-the-counter, or herbal weight loss products.
- It is not known if Saxenda changes your risk of heart problems or stroke or of death due to heart problems or stroke.
- It is not known if Saxenda can be used safely in people who have had pancreatitis.
- It is not known if Saxenda is safe and effective in children under 18 years of age. Saxenda is not recommended for use in children.

Who should not use Saxenda?

Do not use Saxenda if:

- you or any of your family members have a history of medullary thyroid cancer.
- you have Multiple Endocrine Neoplasia syndrome type 2 (MEN 2). This is a disease where people have tumors in more than one gland in their body.
- you are allergic to liraglutide or any of the ingredients in Saxenda. See the end of this Medication Guide for a complete list of ingredients in Saxenda.

Symptoms of a serious allergic reaction may include:

- swelling of your face, lips, tongue, or throat
- fainting or feeling dizzy

- very rapid heartbeat
- problems breathing or swallowing
- severe rash or itching

Talk with your healthcare provider if you are not sure if you have any of these conditions.

- are pregnant or planning to become pregnant. Saxenda may harm your unborn baby.

What should I tell my healthcare provider before using Saxenda?

Before taking Saxenda, tell your healthcare provider if you:

- have any of the conditions listed in the section “What is the most important information I should know about Saxenda?”
- are taking certain medications called GLP-1 receptor agonists.
- are allergic to liraglutide or any of the other ingredients in Saxenda. See the end of this Medication Guide for a list of ingredients in Saxenda.
- have severe problems with your stomach, such as slowed emptying of your stomach (gastroparesis) or problems with digesting food.
- have or have had kidney or liver problems.
- have or have had depression or suicidal thoughts.
- have any other medical conditions.
- are pregnant or plan to become pregnant. Saxenda may harm your unborn baby. Tell your healthcare provider if you become pregnant while taking Saxenda. If you are pregnant you should stop using Saxenda.
- are breastfeeding or plan to breastfeed. It is not known if Saxenda passes into your breast milk. You and your healthcare provider should decide if you will take Saxenda or breastfeed. You should not do both without talking with your healthcare provider first.

Tell your healthcare provider about all the medicines you take including prescription and non-prescription medicines, vitamins, and herbal supplements. Saxenda slows stomach emptying and can affect medicines that need to pass through the stomach quickly. Saxenda may affect the way some medicines work and some other medicines may affect the way Saxenda works. Tell your healthcare provider if you take other diabetes medicines, especially sulfonylurea medicines or insulin.

Know the medicines you take. Keep a list of them with you to show your healthcare provider and pharmacist each time you get a new medicine.

How should I use Saxenda?

- Use Saxenda exactly as prescribed by your healthcare provider. Your dose should be increased after using Saxenda for 1 week until you reach

the 3 mg dose. After that, do not change your dose unless your healthcare provider tells you to.

- Saxenda is injected 1 time each day, at any time during the day.
- You can take Saxenda with or without food.
- Your doctor should start you on a diet and exercise program when you start taking Saxenda. Stay on this program while you are taking Saxenda.
- Saxenda comes in a prefilled pen.
- Your healthcare provider must teach you how to inject Saxenda before you use it for the first time. If you have questions or do not understand the instructions, talk to your healthcare provider or pharmacist. See the Patient Instructions for Use that come with this Medication Guide for detailed information about the right way to use your Saxenda pen.
- Pen needles are not included. Use the Saxenda pen with Novo Nordisk disposable needles. You may need a prescription to get pen needles from your pharmacist. Ask your healthcare provider which needle size is best for you.
- When starting a new prefilled Saxenda pen, you must follow the “Check the Saxenda flow with each new pen” (see the detailed Patient Instructions for Use that comes with this Medication Guide). You only need to do this 1 time with each new pen. You should also do this if you drop your pen. If you do the “Check the Saxenda flow with each new pen” before each injection, you will run out of medicine too soon.
- Inject your dose of Saxenda under the skin (subcutaneous injection) in your stomach area (abdomen), upper leg (thigh), or upper arm, as instructed by your healthcare provider. **Do not inject into a vein or muscle.**
- If you take too much Saxenda, call your healthcare provider right away. Too much Saxenda may cause severe nausea and vomiting.
- If you miss your daily dose of Saxenda, use Saxenda as soon as you remember. Then take your next daily dose as usual on the following day. Do not take an extra dose of Saxenda or increase your dose on the following day to make up for your missed dose. If you miss your dose of Saxenda for **3 days or more**, call your healthcare provider to talk about how to restart your treatment.
- Never share your Saxenda pen or needles with another person. You may give an infection to them, or get an infection from them.

What are the possible side effects of Saxenda?

Saxenda **may cause serious side effects, including:**

- **possible thyroid tumors, including cancer.** See “What is the most important information I should know about Saxenda?”
- **inflammation of the pancreas (pancreatitis).** See “What is the most important information I should know about Saxenda?”

- **gallbladder problems.** Saxenda may cause gallbladder problems including gallstones. Some gallbladder problems need surgery. Call your healthcare provider if you have any of the following symptoms:
 - pain in your upper stomach (abdomen)
 - fever
 - yellowing of your skin or eyes (jaundice)
 - clay-colored stools
- **low blood sugar (hypoglycemia) in people with type 2 diabetes mellitus who also take medicines to treat type 2 diabetes mellitus.** Saxenda can cause low blood sugar in people with type 2 diabetes mellitus who also take medicines used to treat type 2 diabetes mellitus (such as sulfonylureas). In some people, the blood sugar may get so low that they need another person to help them. If you take a sulfonylurea medicine, the dose may need to be lowered while you use Saxenda. Signs and symptoms of low blood sugar may include:
 - shakiness
 - sweating
 - headache
 - drowsiness
 - weakness
 - dizziness
 - confusion
 - irritability
 - hunger
 - fast heartbeat
 - feeling jittery

Talk to your healthcare provider about how to recognize and treat low blood sugar. Make sure that your family and other people who are around you a lot know how to recognize and treat low blood sugar. You should check your blood sugar before you start taking Saxenda and while you take Saxenda.

- **increased heart rate.** Saxenda can increase your heart rate while you are at rest. Your healthcare provider should check your heart rate while you take Saxenda. Tell your healthcare provider if you feel your heart racing or pounding in your chest and it lasts for several minutes when taking Saxenda.
- **kidney problems (kidney failure).** Saxenda may cause nausea, vomiting or diarrhea leading to loss of fluids (dehydration). Dehydration may cause kidney failure which can lead to the need for dialysis. This can happen in people who have never had kidney problems before. Drinking plenty of fluids may reduce your chance of dehydration.

Call your healthcare provider right away if you have nausea, vomiting, or diarrhea that does not go away, or if you cannot drink liquids by mouth.

- **serious allergic reactions.** Serious allergic reactions can happen with Saxenda. Stop using Saxenda, and get medical help right away if you

have any symptoms of a serious allergic reaction **See “Who should not use Saxenda?”**

- **depression or thoughts of suicide.** You should pay attention to any mental changes, especially sudden changes, in your mood, behaviors, thoughts, or feelings. Call your healthcare provider right away if you have any mental changes that are new, worse, or worry you.

Common side effects of Saxenda include:

- nausea
- diarrhea
- constipation
- low blood sugar (hypoglycemia)
- vomiting
- headache
- decreased appetite
- upset stomach
- tiredness
- dizziness
- stomach pain
- changes in enzyme (lipase) levels in your blood

Nausea is most common when first starting Saxenda, but decreases over time in most people as their body gets used to the medicine.

Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

These are not all the side effects with Saxenda. For more information, ask your healthcare provider or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

Keep your Saxenda pen, pen needles, and all medicines out of the reach of children.

General information about the safe and effective use of Saxenda.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use Saxenda for a condition for which it was not prescribed. Do not give Saxenda to other people, even if they have the same symptoms you have. It may harm them.

This Medication Guide summarizes the most important information you should know about using Saxenda. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about Saxenda that is written for health professionals.

For more information, go to saxenda.com or call 1-844-363-4448.

What are the ingredients in Saxenda?

Active Ingredient: liraglutide

Inactive Ingredients: disodium phosphate dihydrate, propylene glycol, phenol and water for injection



For more information go to www.saxenda.com

Manufactured by:
Novo Nordisk A/S
DK-2880 Bagsvaerd, Denmark

For information about Saxenda contact:
Novo Nordisk Inc.
800 Scudders Mill Road
Plainsboro, NJ 08536
1-844-363-4448

Issued: December 2014
Version: 1

This Medication Guide has been approved by the U.S. Food and Drug Administration.

Saxenda[®], Victoza[®], NovoFine[®], and NovoTwist[®] are registered trademarks of Novo Nordisk A/S.

Saxenda[®] is covered by US Patent Nos. 6,268,343, 6,458,924, 7,235,627 and 8,114,833 and other patents pending.

Saxenda[®] pen is covered by US Patent Nos. 6,899,699, 7,686,786, 8,672,898, 8,684,969 and other patents pending.

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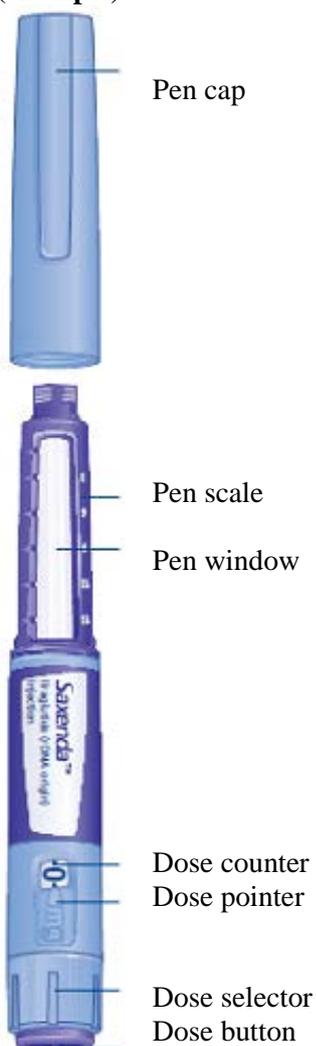
Saxenda[®]
(liraglutide [rDNA
origin]) Injection
6 mg/mL



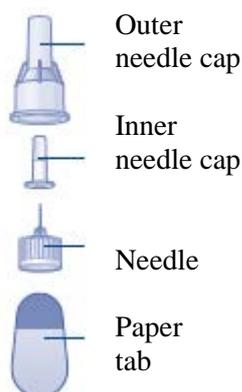
Instructions for Use

- Read these instructions carefully before using your Saxenda® pen.
- Do not use your pen without proper training from your healthcare provider. Make sure that you know how to give yourself an injection with the pen before you start your treatment.
- ▲ 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 pen.
- You can refresh your training at any time by watching the online training video at www.saxenda.com.
- Start by checking your pen to make sure that it contains Saxenda, then look at the pictures below to get to know the different parts of your pen and needle.
- Your pen is a prefilled dial-a-dose pen. It contains 18 mg of liraglutide, and you can select doses of 0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg and 3 mg. Your pen is made to be used with **NovoFine®** or **NovoTwist®** disposable needles up to a length of 8 mm.

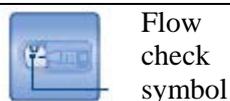
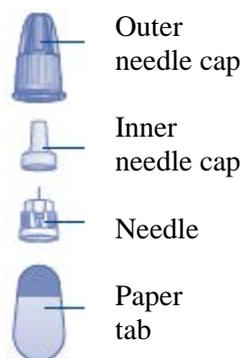
Saxenda pen and needle (example)

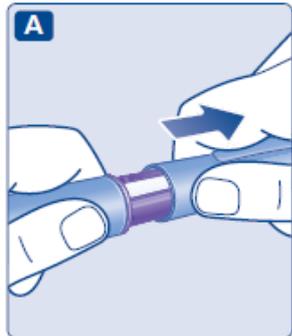
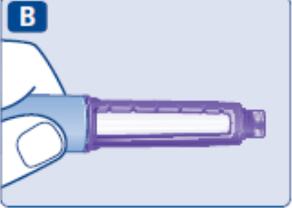
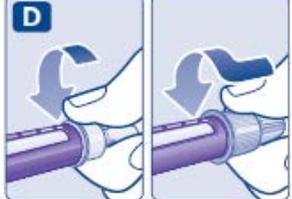
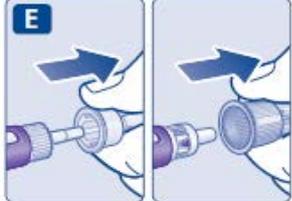
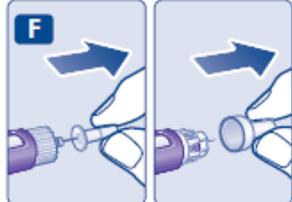


NovoFine



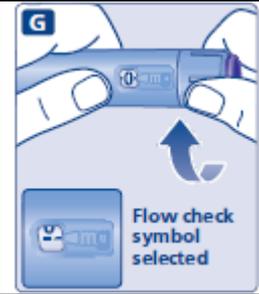
NovoTwist



<p>Step 1. Prepare your pen with a new needle</p> <ul style="list-style-type: none"> • Wash your hands with soap and water. • Check the name and colored label of your pen, to make sure that it contains Saxenda. This is especially important if you take more than 1 type of medicine. • Pull off the pen cap. 	
<ul style="list-style-type: none"> • Check that Saxenda in your pen is clear and colorless. Look through the pen window. If Saxenda looks cloudy, do not use the pen. 	
<ul style="list-style-type: none"> • Take a new needle, and tear off the paper tab. 	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>NovoFine®</p>  </div> <div style="text-align: center;"> <p>NovoTwist®</p>  </div> </div>
<ul style="list-style-type: none"> • Push the needle straight onto the pen. Turn until it is on tight. 	
<ul style="list-style-type: none"> • Pull off the outer needle cap. Do not throw it away. 	
<ul style="list-style-type: none"> • Pull off the inner needle cap and throw it away. A drop of Saxenda may appear at the needle tip. This is normal, but you must still check the Saxenda flow, if you use a new pen for the first time. ▲ Always use a new needle for each injection. This will prevent contamination, infection, leakage of Saxenda, and blocked needles leading to the wrong dose. ⓘ Never use a bent or damaged needle. ⓘ Do not attach a new needle to your pen until you are ready to take your injection. 	

Step 2. Check the Saxenda flow with each new pen.

- Check the Saxenda flow **before your first injection with each new pen.**
If your Saxenda 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 (---).**



- Hold the pen with the needle pointing up.
Press and hold in the dose button until the dose counter shows 0. The 0 must line up with the dose pointer. A drop of Saxenda will appear at the needle tip.
- **If no drop appears**, repeat Step 2 above as shown in Figures G and H up to 6 times. If there is still no drop, change the needle and repeat Step 2 as shown in Figures G and H 1 more time.

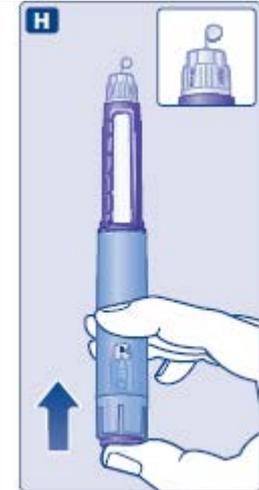
Do not use the pen if a drop of Saxenda still does not appear. Contact Novo Nordisk at 1-877-484-2869.

- ▲ **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 Saxenda flows.

If no drop appears, you will **not** inject any Saxenda, even though the dose counter may move. **This may mean that there is a blocked or damaged needle.**

- ⓘ A small drop may remain at the needle tip, but it will not be injected.

Only check the Saxenda flow before your first injection with each new pen.



Step 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 mg).** Make sure you know the dose of Saxenda you should use. If you select the wrong dose, you can turn the dose selector forward or backwards to the correct dose.

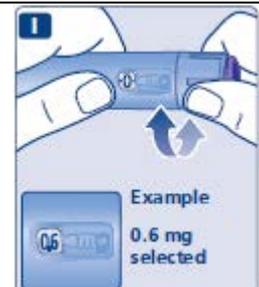
- ▲ **Always use the dose counter and the dose pointer to see how many mg you select.**

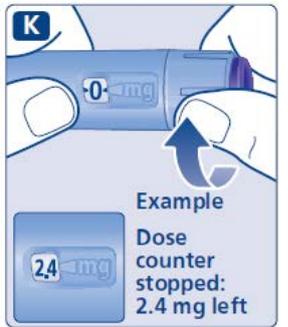
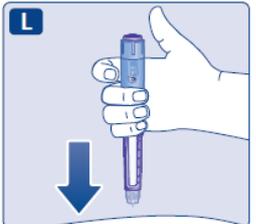
You will hear a “click” every time you turn the dose selector. **Do not set the dose by counting the number of clicks you hear.**

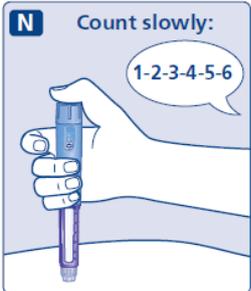
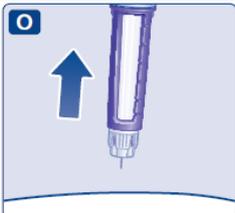
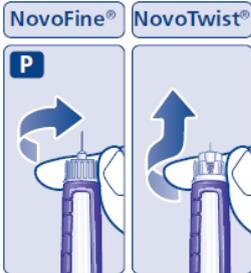
Do not use the pen scale to set the dose. It does not show exactly how much Saxenda is left in your pen.

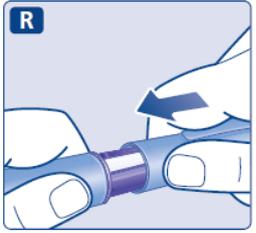
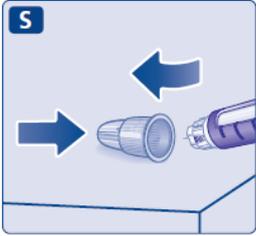
Only doses of 0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg or 3 mg can be selected with the dose selector. The selected dose must line up exactly with the dose pointer to make sure that you get a correct dose.

- ⓘ The dose selector changes the dose. Only the dose counter



<p>and dose pointer will show how many mg you select for each dose.</p> <p>You can select up to 3 mg each dose. When your pen contains less than 3 mg the dose counter stops before 3 mg is shown.</p> <p>The dose selector clicks differently when turned forward, backwards or past the number of mg left. Do not count the pen clicks.</p>	
<p>i How much Saxenda is left?</p> <ul style="list-style-type: none"> The pen scale shows you about how much Saxenda is left in your pen. 	
<ul style="list-style-type: none"> To see how much Saxenda is left, use the dose counter: Turn the dose selector until the dose counter stops. If it shows 3, at least 3 mg are left in your pen. If the dose counter stops before 3 mg, there is not enough Saxenda left for a full dose of 3 mg. <p>i If you need more Saxenda than what is left in your pen</p> <p>Only if trained or told by your healthcare provider, you may split your dose between your current pen and a new pen. Use a calculator to plan the doses as instructed by your healthcare provider.</p> <p>▲ Be very careful to calculate correctly.</p> <p>If you are not sure how to split your dose using 2 pens, then select and inject the dose you need with a new pen.</p>	
<p>Step 4. Inject your dose</p> <ul style="list-style-type: none"> Insert the needle into your skin as your healthcare provider has shown you. Make sure you can see the dose counter. Do not cover it with your fingers. This could stop the injection. 	
<ul style="list-style-type: none"> Press and hold down the dose button until the dose counter shows 0. The 0 must line up with the dose pointer. You may then hear or feel a click. 	

<ul style="list-style-type: none"> • 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 Saxenda coming from the needle tip. If this happens, the full dose will not be delivered. 	
<ul style="list-style-type: none"> • Remove the needle from your skin. If blood appears at the injection site, press lightly. Do not rub the area. ▲ Always watch the dose counter to know how many mg you inject. Hold the dose button down until the dose counter shows 0. <p>How to identify a blocked or damaged needle?</p> <ul style="list-style-type: none"> • If 0 does not appear in the dose counter after continuously pressing the dose button, you may have used a blocked or damaged needle. • If this happens you have not received any Saxenda even though the dose counter has moved from the original dose that you have set. <p>How to handle a blocked needle?</p> <p>Change the needle as described in Step 5, and repeat all steps starting with Step 1: “Prepare your pen with a new needle”. Make sure you select the full dose you need.</p> <p>Never touch the dose counter when you inject. This can stop the injection.</p> <p>ⓘ You may see a drop of Saxenda at the needle tip after injecting. This is normal and does not affect your dose.</p>	
<p>Step 5. After your injection</p> <ul style="list-style-type: none"> • Carefully remove the needle from the pen. Do not put the needle caps back on the needle, to avoid needle sticks. 	
<ul style="list-style-type: none"> • Place the needle in a sharps container right away to reduce the risk of needle sticks. 	

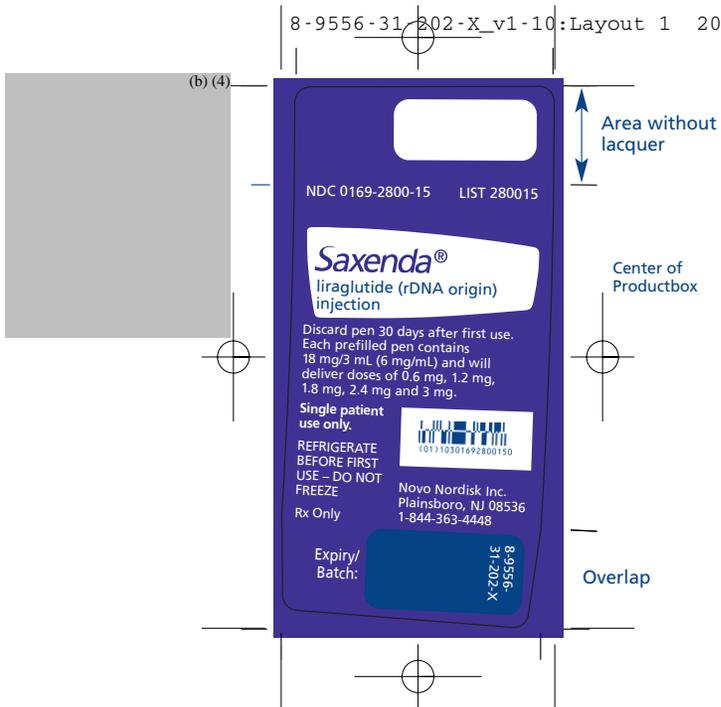
<ul style="list-style-type: none"> • Put the pen cap on your pen after each use to protect Saxenda from light. 	
<p>i If you do not have a sharps container, follow a 1-handed needle recapping method. Carefully slip the needle into the outer needle cap. Dispose of the needle in a sharps container as soon as possible.</p> <p>▲ Never try to put the inner needle cap back on the needle. You may stick yourself with the needle. Always remove the needle from your pen.</p> <p>This prevents contamination, infection, leakage of Saxenda, and blocked needles leading to the wrong dose. If the needle is blocked, you will not inject any Saxenda.</p> <p>i Always dispose of the needle after each injection.</p> <ul style="list-style-type: none"> • Do not throw away in the household trash. Put the needle and any empty Saxenda pen or any pen used for 30 days still containing Saxenda in a FDA-cleared sharps disposal container right away after use. • If you do not have a FDA-cleared sharps disposal container, you may use a household container that is: <ul style="list-style-type: none"> ○ made of a heavy-duty plastic ○ can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out upright and stable during use ○ leak-resistant ○ properly labeled to warn of hazardous waste inside the container • When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used needles and syringes. For more information about the safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to the FDA's website at: http://www.fda.gov/safesharpsdisposal • Do not dispose of your used sharps disposal container in your household trash unless your community guidelines permit this. Do not recycle your used sharps disposal container. • Safely dispose of Saxenda that is out of date or no longer 	

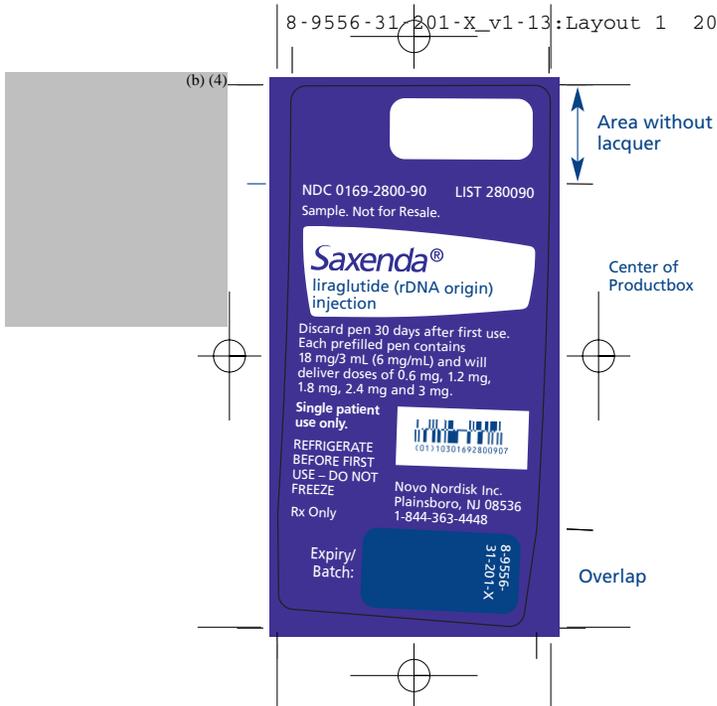
needed.	
<p>▲ Important</p> <ul style="list-style-type: none"> Caregivers must be very careful when handling used needles to prevent needle sticks and cross infection. Never use a syringe to withdraw Saxenda from your pen. Always carry an extra pen and new needles with you, in case of loss or damage. Always keep your pen and needles out of reach of others, especially children. Do not share your Saxenda pen or needles with anyone else. You may give an infection to them or get an infection from them. Always keep your pen with you. Do not leave it in a car or other place where it can get too hot or too cold. 	
<p>Caring for your pen</p> <ul style="list-style-type: none"> 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 Saxenda flow before you inject. Do not try to repair your pen or pull it apart. Do not expose your pen to dust, dirt or liquid. Do not wash, soak, or lubricate your pen. If necessary, clean it with mild detergent on a moistened cloth. <p>How should I store my Saxenda pen?</p> <ul style="list-style-type: none"> Store your new, unused Saxenda pens in the refrigerator at 36°F to 46°F (2°C to 8°C). Store your pen in use for 30 days at 59°F to 86°F (15°C to 30°C) or in a refrigerator at 36°F to 46°F (2°C to 8°C). The Saxenda pen you are using should be thrown away after 30 days, even if it still has Saxenda left in it. Do not freeze Saxenda. Do not use Saxenda if it has been frozen. Unused Saxenda pens may be used until the expiration date printed on the label, if kept in the refrigerator. Keep Saxenda away from heat and out of the light. 	

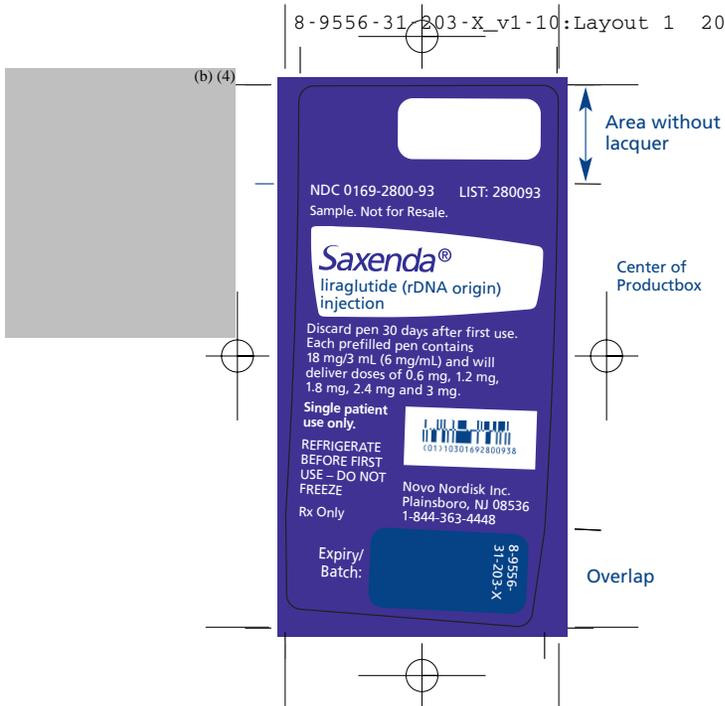
This Medication Guide and Instructions for Use have been approved by the U.S. Food and Drug Administration.

December 2014

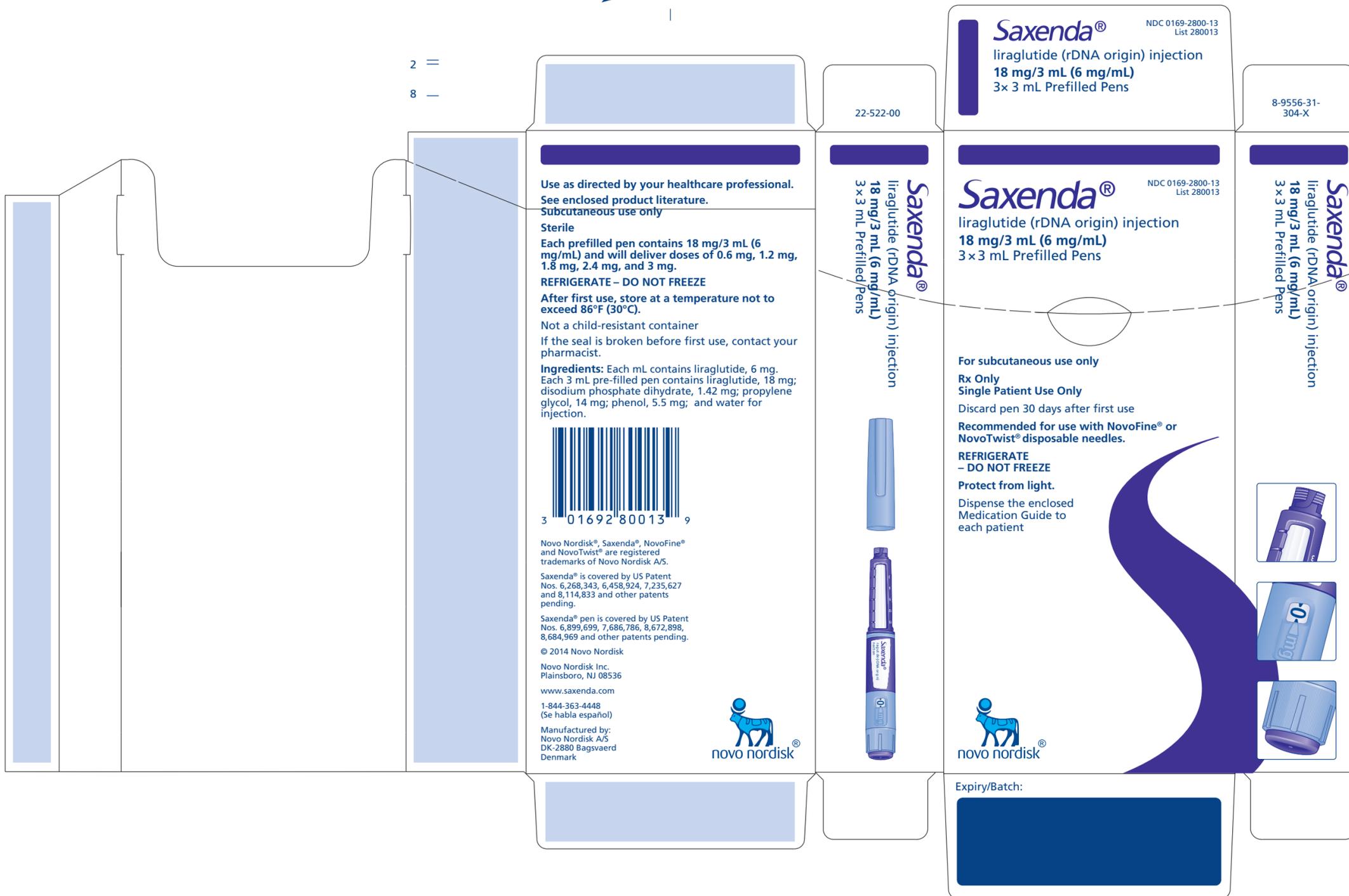
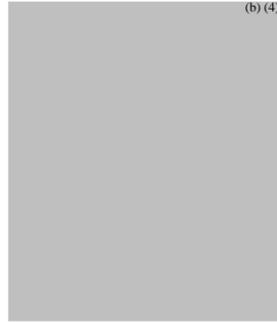








Code: 100% Direction - Code centre line - Length: Max 29 mm (100%)



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22-522-00

8-9556-31-304-X

Use as directed by your healthcare professional. See enclosed product literature. Subcutaneous use only

Sterile
Each prefilled pen contains 18 mg/3 mL (6 mg/mL) and will deliver doses of 0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg, and 3 mg.
REFRIGERATE – DO NOT FREEZE
After first use, store at a temperature not to exceed 86°F (30°C).
Not a child-resistant container
If the seal is broken before first use, contact your pharmacist.
Ingredients: Each mL contains liraglutide, 6 mg. Each 3 mL pre-filled pen contains liraglutide, 18 mg; disodium phosphate dihydrate, 1.42 mg; propylene glycol, 14 mg; phenol, 5.5 mg; and water for injection.



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Novo Nordisk®, Saxenda®, NovoFine® and NovoTwist® are registered trademarks of Novo Nordisk A/S.
Saxenda® is covered by US Patent Nos. 6,268,343, 6,458,924, 7,235,627 and 8,114,833 and other patents pending.
Saxenda® pen is covered by US Patent Nos. 6,899,699, 7,686,786, 8,672,898, 8,684,969 and other patents pending.
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Novo Nordisk Inc. Plainsboro, NJ 08536
www.saxenda.com
1-844-363-4448 (Se habla español)
Manufactured by: Novo Nordisk A/S DK-2880 Bagsvaerd Denmark



Saxenda®
liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
3 x 3 mL Prefilled Pens



Saxenda® NDC 0169-2800-13 List 280013
liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
3 x 3 mL Prefilled Pens

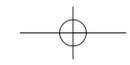
Saxenda® NDC 0169-2800-13 List 280013
liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
3 x 3 mL Prefilled Pens

For subcutaneous use only
Rx Only
Single Patient Use Only
Discard pen 30 days after first use
Recommended for use with NovoFine® or NovoTwist® disposable needles.
REFRIGERATE – DO NOT FREEZE
Protect from light.
Dispense the enclosed Medication Guide to each patient



Expiry/Batch:
[Redacted]

Saxenda®
liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
3 x 3 mL Prefilled Pens



Code centre line
Code: 100% Direction →
Length: Max 29 mm (100%)

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22-521-00

NDC 0169-2800-15
List 280015

8-9556-31-305-X

Saxenda[®]
liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
5 x 3 mL Prefilled Pens

Saxenda[®]
liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
5 x 3 mL Prefilled Pens

NDC 0169-2800-15
List 280015

Saxenda[®]
liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
5 x 3 mL Prefilled Pens

Use as directed by your healthcare professional.
See enclosed product literature.
Subcutaneous use only
Sterile
Each prefilled pen contains 18 mg/3 mL (6 mg/mL) and will deliver doses of 0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg, and 3 mg.
REFRIGERATE – DO NOT FREEZE
After first use, store at a temperature not to exceed 86°F (30°C).
Not a child-resistant container
If the seal is broken before first use, contact your pharmacist.
Ingredients: Each mL contains liraglutide, 6 mg. Each 3 mL pre-filled pen contains liraglutide, 18 mg; disodium phosphate dihydrate, 1.42 mg; propylene glycol, 14 mg; phenol, 5.5 mg; and water for injection.

Novo Nordisk[®], Saxenda[®], NovoFine[®] and NovoTwist[®] are registered trademarks of Novo Nordisk A/S.
Saxenda[®] is covered by US Patent Nos. 6,268,343, 6,458,924, 7,235,627 and 8,114,833 and other patents pending.
Saxenda[®] pen is covered by US Patent Nos. 6,899,699, 7,686,786, 8,672,898, 8,684,969 and other patents pending.



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Novo Nordisk Inc.
Plainsboro, NJ 08536
www.saxenda.com
1-844-363-4448
(Se habla español)
Manufactured by:
Novo Nordisk A/S
DK-2880 Bagsvaerd
Denmark



Saxenda[®]
liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
5 x 3 mL Prefilled Pens



For subcutaneous use only
Rx Only
Single Patient Use Only
Discard pen 30 days after first use
Recommended for use with NovoFine[®] or NovoTwist[®] disposable needles.
REFRIGERATE – DO NOT FREEZE
Protect from light.
Dispense the enclosed Medication Guide to each patient



Expiry/Batch:



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22-520-00

NDC 0169-2800-90 List 280090

Saxenda®

liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
1×3 mL Prefilled Pens
Sample. Not for Resale.

8-9556-31-302-X

Use as directed by your healthcare professional.
See enclosed product literature.
Subcutaneous use only

Sterile
Each prefilled pen contains 18 mg/3 mL (6 mg/mL) and will deliver doses of 0.6 mg, 1.2 mg, 1.8 mg, 2.4 mg, and 3 mg.
REFRIGERATE – DO NOT FREEZE
After first use, store at a temperature not to exceed 86°F (30°C).
Not a child-resistant container
If the seal is broken before first use, contact your pharmacist.
Ingredients: Each mL contains liraglutide, 6 mg. Each 3 mL pre-filled pen contains liraglutide, 18 mg; disodium phosphate dihydrate, 1.42 mg; propylene glycol, 14 mg; phenol, 5.5 mg; and water for injection.



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(Se habla español)
Manufactured by:
Novo Nordisk A/S
DK-2880 Bagsvaerd, Denmark



liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
1×3 mL Prefilled Pens
Sample. Not for Resale.



NDC 0169-2800-90 List 280090

Saxenda®

liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
1×3 mL Prefilled Pens
Sample. Not for Resale.

For subcutaneous use only
Rx Only
Single Patient Use Only

Discard pen 30 days after first use
Recommended for use with NovoFine® or NovoTwist® disposable needles.

REFRIGERATE – DO NOT FREEZE

Protect from light.

Dispense the enclosed Medication Guide to each patient



liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
1×3 mL Prefilled Pens
Sample. Not for Resale.



Expiry/Batch:



Code: 100% Direction - Code centreline - Length: Max 29 mm (100%)

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22-522-00

NDC 0169-2800-93
List 280093

Saxenda[®]

liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
3 x 3 mL Prefilled Pens
Sample. Not for Resale.

8-9556-31-
303-X

NDC 0169-2800-93
List 280093

Saxenda[®]

liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
3 x 3 mL Prefilled Pens
Sample. Not for Resale.

Saxenda[®]
liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
3 x 3 mL Prefilled Pens
Sample. Not for Resale.

Use as directed by your healthcare professional.
See enclosed product literature.
Subcutaneous use only

Sterile
Each prefilled pen contains 18 mg/3 mL (6 mg/mL)
and will deliver doses of 0.6 mg, 1.2 mg, 1.8 mg,
2.4 mg, and 3 mg.

REFRIGERATE – DO NOT FREEZE
After first use, store at a temperature not to exceed
86°F (30°C).

Not a child-resistant container
If the seal is broken before first use, contact your
pharmacist.

Ingredients: Each mL contains liraglutide, 6 mg. Each
3 mL pre-filled pen contains liraglutide, 18 mg;
disodium phosphatedihydrate, 1.42 mg; propylene
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Plainsboro, NJ 08536

www.saxenda.com

1-844-363-4448

(Se habla español)

Manufactured by:

Novo Nordisk A/S

DK-2880 Bagsvaerd

Denmark



Saxenda[®]
liraglutide (rDNA origin) injection
18 mg/3 mL (6 mg/mL)
3 x 3 mL Prefilled Pens
Sample. Not for Resale.



For subcutaneous use only
Rx Only
Single Patient Use Only

Discard pen 30 days after first use

**Recommended for use with NovoFine[®] or
NovoTwist[®] disposable needles.**

**REFRIGERATE
– DO NOT FREEZE**

Protect from light.

Dispense the enclosed
Medication Guide to
each patient



Expiry/Batch:



(b) (4)

Rx:
Saxenda[®]
liraglutide (rDNA origin) injection

- 2 x Saxenda[®]
(NDC 0169-2800-15)
- NovoFine[®] 32G Tip disposable
needles
1 box (#100)
(NDC 0169-1851-89)

8-9556-31-220-X

8 9556 31 220 X

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/s/

JAMES P SMITH
12/23/2014