PRODUCT MONOGRAPH
INCLUDING PATIENT MEDICATION INFORMATION

OZEMPIC®
semaglutide injection
2 mg/pen (1.34 mg/mL)

Pre-filled pen delivering doses of 0.25 mg or 0.5 mg
and
Pre-filled pen delivering doses of 1 mg

ATC code: A10BJ
Antihyperglycemic Agent

Glucagon-like Peptide-1 (GLP-1) Receptor Agonist

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PART I: HEALTH PROFESSIONAL INFORMATION

SUMMARY PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Route of Administration</th>
<th>Dosage Form / Strength</th>
<th>Clinically Relevant Nonmedicinal Ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcutaneous</td>
<td>Injectable, 1.34 mg/mL</td>
<td>disodium phosphate dihydrate, propylene glycol, phenol, and water for injections.</td>
</tr>
</tbody>
</table>

*For a complete listing see Dosage Forms, Composition and Packaging section.*

DESCRIPTION

OZEMPIC® contains semaglutide, a glucagon-like peptide-1 (GLP-1) receptor agonist (or GLP-1 analog) with 94% sequence homology to human GLP-1. The peptide backbone is produced by yeast fermentation and includes three amino acid substitutions to allow for attachment of an albumin-binding C-18 fatty diacid with a hydrophilic spacer and to increase stabilisation against degradation by the enzyme dipeptidyl-peptidase 4 (DPP-4). The molecular weight of semaglutide is approximately 4 kilodalton.

OZEMPIC® is a clear and colourless solution with a pH of 7.4. OZEMPIC® is provided in a pre-filled multi-dose disposable pen, which contains the drug solution, semaglutide, in a 1.5 mL cartridge, equivalent to 2 mg semaglutide. See DOSAGE FORMS, COMPOSITION AND PACKAGING.

INDICATIONS AND CLINICAL USE

OZEMPIC® is indicated for the once-weekly treatment of adult patients with type 2 diabetes mellitus to improve glycemic control, in combination with:

- diet and exercise in patients for whom metformin is inappropriate due to contraindication or intolerance.
- metformin, when diet and exercise plus maximal tolerated dose of metformin do not achieve adequate glycemic control.
- metformin and a sulfonylurea, when diet and exercise plus dual therapy with metformin and a sulfonylurea do not achieve adequate glycemic control.
- basal insulin with metformin, when diet and exercise plus basal insulin with metformin do not achieve adequate glycemic control (see CLINICAL TRIALS).
OZEMPIC® has not been studied in combination with prandial insulin (short acting). OZEMPIC® is not a substitute for insulin.

OZEMPIC® should not be used in patients with Type 1 diabetes mellitus (formerly known as insulin-dependent diabetes mellitus or IDDM) or for the treatment of diabetic ketoacidosis.

See DOSAGE AND ADMINISTRATION for information on adjustment of doses of concomitant medications when adding OZEMPIC® to the treatment regimen.

Geriatrics (> 65 years)
OZEMPIC® was studied in a limited number of patients 75 years of age or older (see WARNINGS AND PRECAUTIONS, Special Populations; DOSAGE AND ADMINISTRATION; and ACTION AND CLINICAL PHARMACOLOGY sections).

Pediatrics (< 18 years of age)
The safety and efficacy of OZEMPIC® have not been studied in pediatric populations. OZEMPIC® is not indicated for use in pediatric patients.

CONTRAINDICATIONS
- OZEMPIC® is contraindicated in patients with a personal or family history of medullary thyroid carcinoma (MTC) or in patients with Multiple Endocrine Neoplasia syndrome type 2 (MEN 2). See WARNINGS AND PRECAUTIONS.
- OZEMPIC® is contraindicated in patients with hypersensitivity to OZEMPIC® or to any of the product components. See WARNINGS AND PRECAUTIONS.
- OZEMPIC® should not be used during pregnancy or breastfeeding.

WARNINGS AND PRECAUTIONS

<table>
<thead>
<tr>
<th>Serious Warnings and Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Risk of Thyroid C-cell Tumours</strong></td>
</tr>
<tr>
<td>- Semaglutide causes treatment-dependent thyroid C-cell tumours at clinically relevant exposures in both genders of rats and mice (see PART II, TOXICOLOGY). It is unknown whether semaglutide causes thyroid C-cell tumors, including medullary thyroid carcinoma (MTC), in humans, as human relevance could not be ruled out by clinical or nonclinical studies.</td>
</tr>
<tr>
<td>- OZEMPIC® is contraindicated in patients with a personal or family history of MTC and in patients with Multiple Endocrine Neoplasia syndrome type 2 (MEN 2). It is unknown whether monitoring with serum calcitonin or thyroid ultrasound will mitigate human risk of thyroid C-cell tumors. Patients should be counseled regarding the risk and symptoms of thyroid tumors (see CONTRAINDICATIONS, WARNINGS AND PRECAUTIONS, Adverse Drug Reactions and Toxicology).</td>
</tr>
</tbody>
</table>

General
OZEMPIC® should not be used in patients with type 1 diabetes mellitus or for the treatment of patients with diabetic ketoacidosis.

OZEMPIC® should not be administered intramuscularly.

Carcinogenesis and Mutagenesis

Risk of Thyroid C-Cell Tumors
In mice and rats, semaglutide caused a treatment-duration-dependent increase in the incidence of thyroid C-cell tumors (adenomas and carcinomas) after lifetime exposure at clinically relevant plasma exposures (see PART II, TOXICOLOGY). It is unknown whether semaglutide causes thyroid C-cell tumors, including MTC, in humans as human relevance could not be determined. Thyroid C-cell tumors in rodents are a known class effect for GLP-1 receptor agonists.

In clinical trials, there were no cases of MTC observed in patients treated with OZEMPIC®.

Counsel patients regarding the potential risk for MTC with the use of OZEMPIC® and inform them of symptoms of thyroid tumors (e.g. a mass in the neck, dysphagia, dyspnea, persistent hoarseness).

It is unknown whether monitoring with serum calcitonin or thyroid ultrasound will mitigate the potential risk of MTC, and 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. Patients with thyroid nodules noted on physical examination or neck imaging obtained for other reasons should be referred to an endocrinologist for further evaluation. Although routine monitoring of serum calcitonin is of uncertain value in patients treated with OZEMPIC® if serum calcitonin is measured and found to be elevated, the patient should be referred to an endocrinologist for further evaluation. (see ADVERSE REACTIONS, Adverse Drug Reaction Overview and Clinical Trial Adverse Drug

OZEMPIC® is contraindicated in patients with a personal or family history of medullary thyroid carcinoma (MTC) or in patients with Multiple Endocrine Neoplasia syndrome type 2 (MEN 2).

Endocrine and Metabolism

Pancreatitis
Acute pancreatitis has been observed with the use of GLP-1 receptor agonists. In glycemic control trials (see Table 3), acute pancreatitis was confirmed by adjudication in 7 OZEMPIC®-treated patients (0.3 cases per 100 patient years) versus 3 in patients treated with another GLP-1 receptor agonist (0.2 cases per 100 patient years); no cases were seen with placebo or other drug classes. One case of chronic pancreatitis was confirmed in an OZEMPIC®-treated patient. In a 2 year trial (SUSTAIN 6), acute pancreatitis was confirmed by adjudication in 8 OZEMPIC®-treated patients (0.27 cases per 100 patient years of observation) and 10 placebo-treated patients (0.33 cases per 100 patient years of observation), both on a background of standard of care. There were no cases of chronic pancreatitis.

Patients should be informed of the characteristic symptoms of acute pancreatitis. After initiation
of OZEMPIC®, observe patients for signs and symptoms of pancreatitis. If pancreatitis is suspected, OZEMPIC® should be discontinued; if confirmed, OZEMPIC® should not be restarted. Consider anti-diabetic therapies other than OZEMPIC® in patients with a history of pancreatitis.

**Hypoglycaemia with Concomitant Use of Insulin Secretagogues or Insulin**
Patients receiving OZEMPIC® in conjunction with sulfonylurea or basal insulin may have an increased risk of hypoglycemia. The risk of hypoglycaemia may be lowered by a reduction in the dose of sulfonylurea (or other concomitantly administered insulin secretagogues) or insulin when initiating treatment with OZEMPIC®. See DOSAGE AND ADMINISTRATION, and ADVERSE REACTIONS.

**Other incretin drugs**
Concomitant use of OZEMPIC® with other GLP-1 analogs, DPP-4 inhibitors and SGLT-2 inhibitors has not been studied. It is unknown if concomitant use of drugs acting via similar pathways affects the efficacy and safety of OZEMPIC®.

**Immune**

**Hypersensitivity**
Severe, life-threatening, generalized allergy, including anaphylaxis, may occur with any GLP-1 receptor agonist, including OZEMPIC®. If a hypersensitivity reaction occurs, the patient should discontinue OZEMPIC® and promptly seek medical advice.

**Ophthalmologic**

**Diabetic Retinopathy Complications**
In a 2-year trial involving patients with type 2 diabetes and high cardiovascular risk, more events of diabetic retinopathy complications occurred in patients treated with OZEMPIC® (3.0%) compared to placebo (1.8%). The absolute risk increase for diabetic retinopathy complications was larger among patients with a history of diabetic retinopathy at baseline than among patients without a known history of diabetic retinopathy.

Rapid improvement in glucose control has been associated with a temporary worsening of diabetic retinopathy. Long-term glycemic control may decrease the risk of diabetic retinopathy. Patients with a history of diabetic retinopathy should be monitored for progression of diabetic retinopathy.

**Renal**

**Renal Insufficiency**
Use of GLP-1 receptor agonists may be associated with gastrointestinal adverse reactions. This should be considered when treating patients with impaired renal function as nausea, vomiting, and diarrhoea, may cause dehydration which could cause a deterioration of renal function. Monitor renal function in patients with renal insufficiency reporting severe adverse gastrointestinal reactions. See ADVERSE REACTIONS.

In patients treated with GLP-1 receptor agonists, there have been post-marketing reports of acute renal failure and worsening of chronic renal failure, which may sometimes require hemodialysis.
Some of these events were reported in patients without known underlying renal disease. A majority of reported events occurred in patients who had experienced nausea, vomiting, diarrhea, or dehydration. Because these reactions may worsen renal function, use caution when initiating or escalating doses of OZEMPIC® in patients with renal impairment. Monitor renal function in patients with renal impairment reporting severe adverse gastrointestinal reactions.

No dose adjustment of OZEMPIC® is required for patients with mild, moderate or severe renal impairment. There is limited clinical experience in patients with severe renal impairment (estimated glomerular filtration rate [eGFR] <30 mL/min/1.73 m²), and caution should be used in this patient population. OZEMPIC® is not recommended for use in patients with end-stage renal disease.

**Cardiovascular**

**Heart Rate Increase:** OZEMPIC® causes an increase in heart rate (see ACTION AND CLINICAL PHARMACOLOGY, Cardiac Electrophysiology). Caution should be observed in patients who have cardiac conditions that might be worsened by an increase in heart rate, such as tachyarrhythmias (see DRUG INTERACTIONS).

**PR Interval Prolongation:** OZEMPIC® causes a prolongation of the PR interval of the electrocardiogram (see ACTION AND CLINICAL PHARMACOLOGY, Cardiac Electrophysiology). Caution should be observed in patients with pre-existing conduction system abnormalities (e.g., marked first-degree AV block or second- or third-degree AV block) or a history of rhythm disturbances (e.g., tachyarrhythmias).

**Special Populations**

**Pregnant Women:**
Studies in animals have shown reproductive toxicity (see PART II, Toxicology). No clinical trials in pregnant women have been conducted. Therefore, semaglutide should not be used during pregnancy. Women of childbearing potential are recommended to use contraception when treated with semaglutide. If a patient wishes to become pregnant, or pregnancy occurs, semaglutide should be discontinued. Semaglutide should be discontinued at least 2 months before a planned pregnancy due to the long half-life. See ACTION AND CLINICAL PHARMACOLOGY, Pharmacokinetics.

**Nursing Women:**
It is not known whether OZEMPIC® is excreted in human milk. Semaglutide was present in the milk of lactating rats. Because many drugs are excreted in human milk and the effects on the infant are unknown, OZEMPIC® should not be used for the duration of breastfeeding.
Pediatrics (<18 years of age):
Safety and efficacy of OZEMPIC® have not been studied in pediatric patients. OZEMPIC® is not indicated for patients with Type 2 Diabetes who are under 18 years of age.

Geriatrics (≥65 years of age):
In the pool of glycemic control trials, 744 (23.6%) OZEMPIC®-treated patients were 65 years of age and above and 102 (3.2%) OZEMPIC®-treated patients were 75 years of age and above. The efficacy in patients over 75 has therefore not been proven but appears to be similar to younger patients based on limited data. In SUSTAIN 6, a long-term cardiovascular outcome trial, 788 (48.0%) OZEMPIC®-treated patients were 65 years of age and above and 157 (9.6%) OZEMPIC®-treated patients were 75 years of age and above.

No overall differences in safety or efficacy were detected between these patients and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

Renal Insufficiency
In the glycemic control trials, at baseline, 1108 (35.2%) OZEMPIC®-treated patients had mild renal impairment (eGFR ≥60 but <90 mL/min/1.73 m²) and 83 (2.6%) OZEMPIC®-treated patients had moderate renal impairment (eGFR ≥30 but <60 mL/min/1.73 m²). In SUSTAIN 6, 684 (41.7%) OZEMPIC®-treated patients had mild renal impairment, 420 (25.6%) OZEMPIC®-treated patients had moderate renal impairment, and 41 (2.5%) OZEMPIC®-treated patients had severe renal impairment (eGFR <30 mL/min/1.73 m²). OZEMPIC® should not be used in patients with end stage renal impairment due to very limited clinical experience with OZEMPIC® in this population (5 patients).

Hepatic Insufficiency
The safety and efficacy of OZEMPIC® in patients with hepatic insufficiency has not been studied. Therefore, OZEMPIC® should be used with caution in this patient population. (See ACTION AND CLINICAL PHARMACOLOGY, Special Population and Conditions, Hepatic insufficiency).

Monitoring and Laboratory Tests
Regular self-monitoring of blood glucose is not needed in order to adjust the dose of OZEMPIC®. However, when initiating treatment with OZEMPIC® in combination with a sulfonylurea or insulin, blood glucose self-monitoring may become necessary to reduce the dose of the sulfonylurea or insulin in order to reduce the risk of hypoglycemia.

However, patients should be informed that response to all diabetic therapies should be monitored by periodic measurement of A1C levels, with a goal of decreasing these levels towards the normal range. A1C is especially useful for evaluating long-term glycemic control.
ADVERSE REACTIONS

Adverse Drug Reaction Overview
The most frequently reported adverse reactions in clinical trials were gastrointestinal disorders, including nausea, diarrhoea and vomiting. In general, these reactions were mild or moderate in severity. More patients taking OZEMPIC® versus comparator drugs had severe or serious adverse events and/or discontinued treatment due to gastrointestinal disorders.

The following serious adverse reactions are described below or elsewhere in the Product Monograph:

- Risk of Thyroid C-cell Tumors (see WARNINGS AND PRECAUTIONS)
- Pancreatitis (see WARNINGS AND PRECAUTIONS)
- Diabetic Retinopathy Complications (see WARNINGS and PRECAUTIONS)
- Use with Medications Known to Cause Hypoglycaemia (see WARNINGS AND PRECAUTIONS)
- Renal Insufficiency (see WARNINGS AND PRECAUTIONS)

Clinical Trial Adverse Drug Reactions
Because clinical trials are conducted under very specific conditions the adverse reaction rates observed in the clinical trials may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse drug reaction information from clinical trials is useful for identifying drug-related adverse events and for approximating rates.

In 8 phase 3a trials, 4792 patients were exposed to OZEMPIC® alone or in combination with other glucose lowering medicinal products. The duration of the treatment ranged from 30 weeks to 2 years.

Common Adverse Reactions
The numbers presented in Table 1 are based on a broad pool of seven randomised, placebo- or active-controlled phase 3a trials of 30 or 52 weeks duration, designed to evaluate the efficacy and safety of semaglutide (0.5 and 1.0 mg) in a broad population of patients with type 2 diabetes, from treatment naïve patients to patients with long-standing diabetes on insulin treatment. The pooled comparator group includes placebo and different active comparators (exenatide ER 2.0 mg, sitagliptin, and insulin glargine). The proportions (%) of patients with events presented in Table 1 are Cochran-Mantel-Haenszel adjusted to account for potential confounding by trial. The numbers are for the on-treatment observation period.

In total, the phase 3a pool included 1373 patients exposed to OZEMPIC® 0.5 mg (1165 exposure years), 1777 patients exposed to OZEMPIC® 1.0 mg (1548 exposure years) and 1657 patients exposed to comparator (1467 exposure years).
Table 1 shows common adverse reactions in ≥1% of OZEMPIC®-treated patients and which occurred more frequently in OZEMPIC®-treated patients than comparator-treated (active comparator or placebo) in 7 randomised, placebo- or active-controlled phase 3a trials. This table excludes hypoglycemia, which can be seen in Table 2.

Table 1  Adverse reactions in Active Comparator or Placebo Trials Reported in ≥1% of OZEMPIC®-Treated Patients

<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>Comparator (N=1657) %</th>
<th>OZEMPIC® 0.5 mg (N=1373) %</th>
<th>OZEMPIC® 1 mg (N=1777) %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gastrointestinal disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nausea</td>
<td>6.3</td>
<td>17.0</td>
<td>19.9</td>
</tr>
<tr>
<td>Diarrhoea</td>
<td>5.7</td>
<td>12.2</td>
<td>13.3</td>
</tr>
<tr>
<td>Abdominal pain¹</td>
<td>4.7</td>
<td>8.7</td>
<td>8.1</td>
</tr>
<tr>
<td>Vomiting</td>
<td>3.3</td>
<td>6.4</td>
<td>8.4</td>
</tr>
<tr>
<td>Constipation</td>
<td>2.7</td>
<td>6.9</td>
<td>6.2</td>
</tr>
<tr>
<td>Dyspepsia</td>
<td>2.1</td>
<td>4.1</td>
<td>5.2</td>
</tr>
<tr>
<td>Abdominal distension</td>
<td>0.8</td>
<td>2.3</td>
<td>2.9</td>
</tr>
<tr>
<td>Gastro-esophageal reflux disease</td>
<td>1.0</td>
<td>1.6</td>
<td>2.7</td>
</tr>
<tr>
<td>Eructation</td>
<td>0.2</td>
<td>1.3</td>
<td>1.8</td>
</tr>
<tr>
<td>Gastritis</td>
<td>0.5</td>
<td>1.6</td>
<td>1.2</td>
</tr>
<tr>
<td>Flatulence</td>
<td>0.5</td>
<td>0.5</td>
<td>1.5</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fatigue²</td>
<td>1.4</td>
<td>2.6</td>
<td>3.3</td>
</tr>
<tr>
<td>Hepatobiliary disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cholelithiasis</td>
<td>0.5</td>
<td>0.7</td>
<td>1.1</td>
</tr>
<tr>
<td>Investigations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lipase increased³</td>
<td>6.4</td>
<td>9.0</td>
<td>9.0</td>
</tr>
<tr>
<td>Amylase increased⁴</td>
<td>2.6</td>
<td>3.4</td>
<td>3.0</td>
</tr>
<tr>
<td>Weight decreased</td>
<td>0.2</td>
<td>0.9</td>
<td>1.5</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decreased appetite</td>
<td>2.0</td>
<td>6.3</td>
<td>7.2</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dizziness</td>
<td>1.7</td>
<td>2.8</td>
<td>3.1</td>
</tr>
</tbody>
</table>

¹Abdominal pain, abdominal pain upper, abdominal pain lower, gastrointestinal pain, abdominal tenderness, abdominal discomfort, epigastric discomfort
²Fatigue, asthenia
³Lipase increased, lipase abnormal, hyperlipasemia, lipase
⁴Amylase increased, amylase, abnormal, hyperamylasemia, amylase

Gastrointestinal Adverse Reactions
In the pool of placebo- and active controlled trials, gastrointestinal adverse reactions occurred more frequently among patients receiving OZEMPIC® than comparators (comparator 22.0%, 0.5 mg 41.7%, 1 mg 42.1%). More patients receiving OZEMPIC® 0.5 mg (3.9%) and OZEMPIC® 1 mg (5.9%) discontinued treatment due to gastrointestinal adverse reactions than patients receiving comparator (0.9%). Investigators graded the severity of gastrointestinal adverse reactions occurring on 0.5 mg and 1 mg of OZEMPIC® as “mild” in 38.8% and 36.5% of cases, respectively, “moderate” in 9.8% and 12.5% of cases, respectively, or severe in 1.7% and 1.8%
of cases, respectively. Most events were of a short duration. The majority of the nausea, vomiting and diarrhoea events occurred during dose escalation. Subjects with lower body weight tended to have an increased incidence of gastrointestinal adverse events.

**Hypoglycaemia**
Table 2 summarizes the incidence of severe, documented symptomatic (≤3.9 mmol/L glucose threshold) or severe, blood glucose confirmed symptomatic (≤3.1 mmol/L glucose threshold) hypoglycaemia in the placebo-controlled trials. Hypoglycemia was more frequent in patients taking OZEMPIC® and basal insulin, despite basal insulin dose being lowered by 20% at OZEMPIC® treatment onset. Hypoglycaemia was more frequent when OZEMPIC® was used in combination with a sulfonylurea. See WARNINGS AND PRECAUTIONS, and PART II, CLINICAL TRIALS.

<table>
<thead>
<tr>
<th>Table 2</th>
<th>Hypoglycaemia Adverse Reactions in Placebo-Controlled Trials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add-on to Basal Insulin with or without Metformin</td>
<td>Placebo</td>
</tr>
<tr>
<td>(30 weeks)</td>
<td>N=132</td>
</tr>
<tr>
<td>Severe</td>
<td>0%</td>
</tr>
<tr>
<td>Documented symptomatic (≤3.9 mmol/L glucose threshold)</td>
<td>15.2%</td>
</tr>
<tr>
<td>Severe or Blood Glucose Confirmed Symptomatic (≤3.1 mmol/L glucose threshold)</td>
<td>5.3%</td>
</tr>
</tbody>
</table>

Hypoglycaemia was more frequent when OZEMPIC® was used in combination with a sulfonylurea. See WARNINGS AND PRECAUTIONS, and PART II, CLINICAL TRIALS. Severe hypoglycaemia occurred in 0.8%, 1.2% and 0.9% of patients when OZEMPIC® 0.5 mg, OZEMPIC® 1 mg and comparators, respectively, was co-administered with a sulfonylurea. Documented symptomatic hypoglycaemia occurred in 17.3%, 24.4% and 25% of patients when OZEMPIC® 0.5 mg, OZEMPIC® 1 mg and comparators respectively, was co-administered with a sulfonylurea. Severe or blood glucose confirmed symptomatic hypoglycaemia occurred in 6.5%, 10.4% and 14% of patients when OZEMPIC® 0.5 mg, OZEMPIC® 1 mg and comparators, respectively, was co-administered with a sulfonylurea.

**Amylase and Lipase Increase**
In placebo-controlled trials, patients exposed to OZEMPIC® had a mean increase from baseline in amylase of 13% and lipase of 22% while placebo-treated patients had no increase.

**Discontinuation due to an adverse event**
The incidence of discontinuation of treatment due to adverse events in placebo- and active controlled trials was 6.1% for patients treated with 0.5 mg OZEMPIC®, 8.7% for patients treated with 1 mg of OZEMPIC® and 3.0% for patients treated with comparator drugs. The most frequent adverse events leading to discontinuation from OZEMPIC® treatment were gastrointestinal.
**Diabetic Retinopathy Complications**

In a 2-year clinical trial involving 3,297 patients with type 2 diabetes and high cardiovascular risk, diabetic retinopathy complications were an adjudicated composite endpoint (including need for retinal photocoagulation, need for treatment with intravitreal agents, vitreous hemorrhage, and diabetes-related blindness). In this trial events of diabetic retinopathy complications occurred in more patients treated with OZEMPIC® (3.0%) compared to placebo (1.8%). More than 80% of patients with an event of diabetic retinopathy complications had a documented history of diabetic retinopathy at baseline. See WARNINGS AND PRECAUTIONS. In patients that did not have a documented history of diabetic retinopathy the number of events were similar for OZEMPIC® and placebo.

In clinical trials up to 1 year involving 4,807 patients with type 2 diabetes patients, adverse events related to diabetic retinopathy were reported in similar proportions of subjects treated with OZEMPIC® (1.7%) and comparators (2.0%).

**Heart Rate Increase**

In placebo- and active-controlled trials, OZEMPIC® 0.5 mg and 1 mg resulted in a mean increase in heart rate of 1-6 beats per minute. There was a mean decrease in heart rate of 0.3 beats per minute in placebo-treated patients. In a 2-year trial in patients with cardiovascular risk factors, 28.8% of OZEMPIC®-treated subjects had an increase in pulse rate of >5 bpm compared to 22.1% on placebo.

**Less Common Clinical Trial Adverse Drug Reactions (<1%)**

**Cardiovascular:** Increased heart rate (tachycardia, heart rate increased, sinus tachycardia)

**Gastrointestinal:** Abdominal distension, dyspepsia, and gastritis.

**General:** Injection site reactions, weight decreased

**Immune-system:** Anaphylactic reaction (anaphylactic reaction, anaphylactic shock)

**Nervous system:** Dysgeusia

**Injection Site Reactions**

In placebo-controlled trials, injection site reactions (e.g. injection-site discomfort, erythema) were reported in 0.2% of OZEMPIC®-treated patients and 0.8% of placebo-treated patients.

**Immunogenicity**

Across the glycemic control trials, 32 (1%) OZEMPIC®-treated patients developed anti-drug antibodies (ADAs) to the active ingredient in OZEMPIC® (i.e., semaglutide). Of the 32 semaglutide-treated patients that developed semaglutide ADAs, 19 patients (0.6% of the overall population) developed antibodies cross-reacting with native GLP-1 and none developed semaglutide-neutralizing antibodies or semaglutide ADAs with endogenous GLP-1 neutralizing effect.

Presence of antibody did not correlate with reduced efficacy as measured by HbA1c or specific adverse events.
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 semaglutide cannot be directly compared with the incidence of antibodies of other products.

**DRUG INTERACTIONS**

**Overview**
The delay of gastric emptying with semaglutide may influence the absorption of concomitantly administered oral medicinal products. The potential effect of semaglutide on the absorption of co-administered oral medications was studied in trials with OZEMPIC® 1 mg steady state exposure. Semaglutide did not affect the absorption of the tested orally-administered medications to any clinically relevant degree (see below and Figure 1).

<table>
<thead>
<tr>
<th>Co-administered medication</th>
<th>Relative exposure Ratio and 90% CI</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metformin</td>
<td>AUC&lt;sub&gt;0-12h&lt;/sub&gt; C&lt;sub&gt;max&lt;/sub&gt;</td>
<td>No dose adjustment</td>
</tr>
<tr>
<td>S-warfarin</td>
<td>AUC&lt;sub&gt;0-160h&lt;/sub&gt; C&lt;sub&gt;max&lt;/sub&gt;</td>
<td>No dose adjustment</td>
</tr>
<tr>
<td>R-warfarin</td>
<td>AUC&lt;sub&gt;0-160h&lt;/sub&gt; C&lt;sub&gt;max&lt;/sub&gt;</td>
<td>No dose adjustment</td>
</tr>
<tr>
<td>Digoxin</td>
<td>AUC&lt;sub&gt;0-120h&lt;/sub&gt; C&lt;sub&gt;max&lt;/sub&gt;</td>
<td>No dose adjustment</td>
</tr>
<tr>
<td>Atorvastatin</td>
<td>AUC&lt;sub&gt;0-72h&lt;/sub&gt; C&lt;sub&gt;max&lt;/sub&gt;</td>
<td>No dose adjustment</td>
</tr>
<tr>
<td>Ethinylestradiol</td>
<td>AUC&lt;sub&gt;0-24h&lt;/sub&gt; C&lt;sub&gt;max&lt;/sub&gt;</td>
<td>No dose adjustment</td>
</tr>
<tr>
<td>Levonorgestrel</td>
<td>AUC&lt;sub&gt;0-24h&lt;/sub&gt; C&lt;sub&gt;max&lt;/sub&gt;</td>
<td>No dose adjustment</td>
</tr>
</tbody>
</table>

Relative exposure in terms of AUC and C<sub>max</sub> for each medication when given with semaglutide compared to without semaglutide. Metformin and oral contraceptive drug (ethinylestradiol/levonorgestrel) were assessed at steady state. Warfarin (S-warfarin/R-warfarin), digoxin and atorvastatin were assessed after a single dose.

Abbreviations: AUC: area under the curve. C<sub>max</sub>: maximum concentration. CI: confidence interval.

**Figure 1:** Impact of OZEMPIC® on the exposure of Co-administered oral Drugs

**Drug-Drug Interactions**

**Oral contraceptives**
Co-administration of semaglutide with an oral contraceptive (0.03 mg ethinylestradiol/0.15 mg levonorgestrel) did not change the overall exposure of ethinylestradiol and levonorgestrel to a clinically relevant degree. Exposure of ethinylestradiol (area under the curve, AUC) was not affected; an increase of 20% was observed for levonorgestrel exposure at steady state. C<sub>max</sub> was not affected for any of the compounds.
**Atorvastatin**
Semaglutide did not change the overall exposure (AUC) of atorvastatin following a single dose administration of atorvastatin (40 mg). Atorvastatin $C_{\text{max}}$ was decreased by 38%. This was assessed not to be clinically relevant.

**Digoxin**
Semaglutide did not change the overall exposure (AUC) or $C_{\text{max}}$ of digoxin following a single dose of digoxin (0.5 mg).

**Metformin**
Semaglutide did not change the overall exposure (AUC) or $C_{\text{max}}$ of metformin following dosing of 500 mg twice daily over 3.5 days.

**Warfarin**
Semaglutide did not change overall exposure or $C_{\text{max}}$ of R- and S-warfarin following a single dose of warfarin (25 mg), and the pharmacodynamic effects of warfarin as measured by the international normalised ratio were not affected in a clinically relevant manner. Upon initiation of OZEMPIC® treatment in patients on warfarin or coumarin derivatives, frequent monitoring of INR is recommended.

**Drugs that Increase Heart Rate**
OZEMPIC® causes an increase in heart rate (see WARNINGS AND PRECAUTIONS, Heart Rate Increase & ACTION AND CLINICAL PHARMACOLOGY, Cardiac Electrophysiology). The impact on heart rate of co-administration of OZEMPIC® with other drugs that increase heart rate (e.g., sympathomimetic drugs) has not been evaluated in drug-drug interaction studies. As a result, co-administration of OZEMPIC® with these drugs should be undertaken with caution.

**Drugs that Cause PR Interval Prolongation**
OZEMPIC® causes an increase in the PR interval (see WARNINGS AND PRECAUTIONS, PR Interval Prolongation & ACTION AND CLINICAL PHARMACOLOGY, Cardiac Electrophysiology). The impact on the PR interval of co-administration of OZEMPIC® with other drugs that prolong the PR interval (including, but not limited to, antiarrhythmics, calcium channel blockers, beta-adrenoceptor blockers, digitalis glycosides, HIV protease inhibitors) has not been evaluated. As a result, co-administration of OZEMPIC® with these drugs should be undertaken with caution.

**Drug-Food Interactions**
Interactions with food have not been studied.

**Drug-Herb Interactions**
Interactions with herbal products have not been studied.

**Drug-Laboratory Interactions**
Interactions with laboratory tests have not been studied.
Drug-Lifestyle Interactions
OZEMPIC® has no or negligible influence on the ability to drive or use machines. When it is used in combination with a sulfonylurea or insulin, patients should be advised to take precautions to avoid hypoglycaemia while driving and using machines.

DOSAGE AND ADMINISTRATION

Dosing Considerations
The recommended starting dose of OZEMPIC® is 0.25 mg once weekly. OZEMPIC® 0.25 mg is not a therapeutic dose. After 4 weeks, the dose should be increased to 0.5 mg once weekly. If additional glycemic control is needed after 4 weeks, the dose may be increased to 1 mg once weekly to further improve glycemic control. The maximum recommended dose is 1 mg once weekly.

OZEMPIC® is to be administered once weekly, at any time of the day, with or without meals. OZEMPIC® should not be administered daily.

OZEMPIC® is to be injected subcutaneously in the abdomen, in the thigh or in the upper arm. The injection site can be changed without dose adjustment.

The day of weekly administration can be changed if necessary as long as the time between two doses is at least 2 days (>48 hours).

OZEMPIC® can be used as monotherapy when metformin is not tolerated or is contraindicated, or as combination therapy with one or more antidiabetic drugs (metformin, SU, basal insulin). OZEMPIC® should not be given in combination with other GLP-1 analogs. Combination with DPP-4 inhibitors or SGLT-2 inhibitors has not been studied.

When OZEMPIC® is added to existing metformin therapy, the current dose of metformin can be continued unchanged.

An increased risk of hypoglycemia was seen with concomitant use of SU or basal insulin with OZEMPIC®. When OZEMPIC® is added to existing therapy of a sulfonylurea or insulin, a reduction in the dose of sulfonylurea or insulin should be considered to reduce the risk of hypoglycaemia. In clinical trials, insulin dose was decreased by 20% at onset of OZEMPIC® treatment. See MONITORING AND LABORATORY.

It is acceptable to inject OZEMPIC® and insulin in the same body region but the injections should not be adjacent to each other. Rotate injection sites with each dose. Do not use the same site for each injection. OZEMPIC® should not be administered intravenously or intramuscularly.

Inspect OZEMPIC® visually before use. It should appear clear and colourless. Do not use OZEMPIC® if particulate matter and colouration is seen.

When using OZEMPIC® with insulin, instruct patients to administer as separate injections and to never mix the products.
Recommended Dose and Dosage Adjustment

Dosage in Patients with Renal Insufficiency
No dosage adjustment is required for patients with renal insufficiency. See ACTION AND CLINICAL PHARMACOLOGY, and Special Populations and Conditions.

Geriatrics (≥ 65 years old)
No dose adjustment is required based on age. See ACTION AND CLINICAL PHARMACOLOGY and Special Populations, and Conditions.

Pediatrics (<18 years old)
Safety and efficacy of OZEMPIC® in pediatrics aged below 18 years have not been studied. See ACTION AND CLINICAL PHARMACOLOGY, and Special Populations and Conditions.

Patients with hepatic insufficiency
The safety and efficacy of OZEMPIC® in patients with hepatic insufficiency has not been studied. Therefore, OZEMPIC® should be used with caution in this patient population (See ACTION AND CLINICAL PHARMACOLOGY, and Special Populations and Conditions.)

Missed Dose
If a dose is missed, it should be administered as soon as possible within 5 days after the missed dose. If more than 5 days have passed, the missed dose should be skipped and the next dose should be administered on the regularly scheduled day. In each case, patients can then resume their regular once weekly dosing schedule.

OVERDOSAGE

For management of a suspected drug overdose, contact your regional Poison Control Centre.

Overdoses of up to 4 mg in a single dose, and up to 4 mg in a week have been reported in clinical trials. The most commonly reported adverse event was nausea. All patients recovered without complications. Ensure patients are instructed that OZEMPIC® is a weekly medication, and should not be administered daily.

There is no specific antidote for overdose with OZEMPIC®. In the event of overdose, appropriate supportive treatment should be initiated according to the patient’s clinical signs and symptoms. A prolonged period of observation and treatment for these symptoms may be necessary, taking into account the long half-life of OZEMPIC® of approximately 1 week.

ACTION AND CLINICAL PHARMACOLOGY

Mechanism of Action
Semaglutide is a GLP-1 analogue with 94% sequence homology to human GLP-1. Semaglutide acts as a GLP-1 receptor agonist that selectively binds to and activates the GLP-1 receptor. The GLP-1 receptor is the target for native GLP-1, an endogenous incretin hormone that potentiates glucose-dependent insulin secretion from the pancreatic beta cells. Unlike native GLP-1, semaglutide has a pharmacokinetic profile in humans suitable for once weekly administration. Following subcutaneous administration, the protracted action profile is based on binding to albumin which reduces the renal clearance and increased enzymatic stability towards the dipeptidyl peptidase (DPPIV) enzyme resulting in a long plasma half-life of approximately one week.

Semaglutide action is mediated via a specific interaction with GLP-1 receptors, leading to an increase in cyclic adenosine monophosphate (cAMP). Semaglutide stimulates insulin secretion in a glucose-dependent manner. Simultaneously, semaglutide lowers glucagon secretion, also in a glucose-dependent manner. Thus, when blood glucose is high, insulin secretion is stimulated and glucagon secretion is inhibited. Conversely, when blood glucose is low semaglutide diminishes insulin secretion and does not impair glucagon secretion. The mechanism of blood glucose lowering also involves a delay in gastric emptying.

**Pharmacodynamics**

All pharmacodynamic evaluations were performed after 12 weeks of treatment (including dose escalation) at steady state with semaglutide 1 mg once weekly.

**Fasting and Postprandial Glucose**

Semaglutide reduced fasting and postprandial glucose concentrations. In patients with type 2 diabetes, treatment with semaglutide 1 mg resulted in reductions in glucose in terms of absolute change from baseline (mmol/L) and relative reduction compared to placebo (%) for fasting glucose (1.6 mmol/L) (22%), 2 hour postprandial glucose (4.1 mmol/L) (37%), mean 24 hour glucose concentration (1.7 mmol/L) (22%), and postprandial glucose excursions over (3 meals) (0.6-1.1 mmol/L) compared to placebo (see Figure 2).

Semaglutide lowered fasting glucose after the first dose.
First and Second Phase Insulin Secretion
Both first and second phase insulin secretion were increased in patients with type 2 diabetes treated with OZEMPIC® compared to placebo.

Glucagon Secretion
Semaglutide lowered the fasting and postprandial glucagon concentrations. In patients with type 2 diabetes, treatment with semaglutide resulted in the following relative reductions in glucagon compared to placebo, fasting glucagon (8-21%), postprandial glucagon response (14-15%), and mean 24 hour glucagon concentration (12%).

Glucose dependent insulin and glucagon secretion
Semaglutide lowered high blood glucose concentrations by stimulating insulin secretion and lowering glucagon secretion in a glucose dependent manner. With semaglutide, the insulin secretion rate in patients with type 2 diabetes was comparable to that of healthy subjects.

During induced hypoglycaemia, semaglutide compared to placebo did not alter the counter regulatory responses of increased glucagon, and did not impair the decrease of C-peptide in patients with type 2 diabetes.

Gastric emptying
Semaglutide caused a minor delay of early postprandial gastric emptying, thereby reducing the
rate at which glucose appears in the circulation postprandially.

**Cardiac electrophysiology (QTc)**
The effect of semaglutide on cardiac repolarization was tested in a QTc trial. Semaglutide did not prolong QTc intervals at supra-therapeutic dose levels (up to 1.5 mg at steady state). A randomised, double-blind, placebo- and positive-controlled, parallel group trial was performed to assess the effect of semaglutide on ECG interval parameters in healthy subjects (semaglutide N=83, placebo N=83). Semaglutide/semaglutide placebo was administered once-weekly for 16 weeks according to an upward titration design. The starting dose of semaglutide/semaglutide placebo treatment was 0.25 mg once-weekly for four weeks, followed by semaglutide/semaglutide placebo 0.5 mg once-weekly for four weeks, semaglutide/semaglutide placebo 1.0 mg once-weekly for four weeks, and finally semaglutide/semaglutide placebo 1.5 mg once-weekly (1.5X multiple of maximum recommended therapeutic dose) for four weeks. ECG assessments were performed at baseline and at the end of weeks 7, 11, and 15, after treatment with the 0.5 mg, 1.0 mg, and 1.5 mg semaglutide/placebo once weekly doses, respectively.

**Heart Rate:** Semaglutide treatment was associated with an increase in heart rate at all dose levels. The maximum difference from placebo in mean change from baseline heart rate was 8.48 bpm (90% CI 6.87, 10.09) at the semaglutide 0.5 mg dose, 9.66 bpm (90% CI 7.88, 11.44) at the semaglutide 1.0 mg dose, and 11.10 bpm (90% CI 9.58, 12.62) at the semaglutide 1.5 mg dose (see WARNINGS AND PRECAUTIONS, Heart Rate Increase and DRUG INTERACTIONS, Drugs that Increase Heart Rate).
Figure 4  Heart rate. Baseline and placebo adjusted estimated treatment differences, semaglutide 0.5 mg, 1.0 mg, 1.5 mg

PR Interval: Semaglutide causes PR interval prolongation, with no evidence of dose-dependency over the 0.5 to 1.5 mg dose range studied. The maximum difference from placebo in mean change from baseline PR interval was 10.72 ms (90% CI 6.25, 15.20) at the 0.5 mg dose, 9.22 ms (90% CI 4.96, 13.47) at the 1.0 mg dose, and 10.02 ms (90% CI 6.15, 13.89) at the 1.5 mg dose (see WARNING AND PRECAUTION, PR Interval Prolongation and DRUG INTERACTIONS, Drugs that Cause PR Interval Prolongation).

In phase 3 trials, including the CVOT, no imbalances were identified with respect to any form of AV block or syncopes between semaglutide and comparators.

Figure 5  PR Interval. Baseline and placebo adjusted estimated treatment differences, semaglutide 0.5 mg, 1.0 mg, 1.5 mg

QTcI Interval: Semaglutide at doses of 0.5, 1.0, and 1.5 mg was associated with a QTcI-shortening effect over the 0-48 h time frame studied, with no evidence of dose-dependency. The maximum difference from placebo in mean change from baseline QTcI interval was -9.61 ms (90% CI -12.96, -6.25) at the 0.5 mg dose, -9.04 ms (90% CI -12.64, -5.44) at the 1.0 mg dose, and -6.56 ms (90% CI -10.14, -2.98) at the 1.5 mg dose.
Pharmacokinetics
Semaglutide has pharmacokinetic properties compatible with once-weekly administration, with an elimination half-life of approximately 1 week.

Absorption: Absolute bioavailability of s.c semaglutide was 89%.

Distribution: The mean volume of distribution of semaglutide following s.c. administration in patients with type 2 diabetes was approximately 12.5 L. Semaglutide was extensively bound to plasma albumin (>99%).

Metabolism: Semaglutide is metabolised through proteolytic cleavage of the peptide backbone and sequential beta-oxidation of the fatty acid sidechain.

Elimination: The primary excretion routes of semaglutide related material were via the urine and faeces. Approximately 3% of the dose was excreted as intact semaglutide via urine.

Clearance of semaglutide in patients with type 2 diabetes was approximately 0.05 L/h. With an elimination half-life of approximately 1 week, semaglutide will be present in the circulation for about 5 weeks after the last dose.
Special Populations and Conditions

Geriatrics: Age had no effect on the pharmacokinetics of semaglutide.

Gender: Gender had no effect on the pharmacokinetics of semaglutide.

Race: Race (White, Black or African-American, Asian) had no effect on the pharmacokinetics of semaglutide.

Ethnicity: Ethnicity (Hispanic/non-Hispanic) had no effect on the pharmacokinetics of semaglutide.

Body Weight: Body weight had an effect on the exposure of semaglutide. Higher body weight results in lower exposure. Semaglutide doses of 0.5 mg and 1 mg provide adequate systemic exposure over a body weight range of 40-198 kg. Lower body weight was associated with higher exposure and greater incidence of gastrointestinal adverse events.

Renal Insufficiency: Renal insufficiency did not impact the pharmacokinetics of a single dose of semaglutide in a clinically relevant manner. This was shown in a study with a single dose of 0.5 mg semaglutide in patients with different degree of renal insufficiency (mild, moderate, severe, ESRD) compared with subjects with normal renal function. This was also shown for subjects with type 2 diabetes and with mild, moderate or severe renal insufficiency based on data from phase 3 studies. No dose adjustment of OZEMPIC® is recommended for patients with mild, moderate or severe renal insufficiency.

Hepatic Insufficiency: Hepatic insufficiency did not have any impact on the exposure of semaglutide in a single-dose 0.5mg study. The pharmacokinetics of semaglutide were evaluated in patients with different degrees of hepatic insufficiency (mild, moderate, severe) compared with subjects with normal hepatic function in a study. No Phase 3 trials were conducted with subjects with hepatic insufficiency and type 2 diabetes.

Pediatrics: Semaglutide has not been studied in paediatric patients.

Duration of Effect
Maximum concentration was reached 1 to 3 days post dose.

Steady-state exposure was achieved following 4-5 weeks of once-weekly administration. In patients with type 2 diabetes, the mean steady state concentrations following s.c. administration of 0.5 mg and 1 mg semaglutide were approximately 16 nmol/L and 30 nmol/L, respectively.

Semaglutide exposure increased in a dose proportional manner for doses of 0.5 mg and 1 mg. Similar exposure was achieved with s.c. administration of semaglutide in the abdomen, thigh, or upper arm.

Storage and Stability
Keep away from the cooling element. Protect from excessive heat and light. Do not freeze.
OZEMPIC® and do not use OZEMPIC® if it has been frozen.

Keep the pen cap on when OZEMPIC® is not in use in order to protect from light.

**Recommended Storage Conditions for OZEMPIC®**

<table>
<thead>
<tr>
<th>Prior to first use</th>
<th>After first use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerated</td>
<td>Room Temperature</td>
</tr>
<tr>
<td>2°C to 8°C</td>
<td>below 30°C</td>
</tr>
<tr>
<td>Until expiration date</td>
<td>Refrigerated</td>
</tr>
<tr>
<td></td>
<td>2°C to 8°C</td>
</tr>
<tr>
<td></td>
<td>8 weeks</td>
</tr>
</tbody>
</table>

Always remove the injection needle immediately after each injection and store OZEMPIC® without a needle attached. This may prevent blocked needles, contamination, infection, leakage of solution and inaccurate dosing.

**SPECIAL HANDLING INSTRUCTIONS**

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

Substances added to OZEMPIC® may cause degradation of semaglutide. OZEMPIC® must not be mixed with other medicinal products, e.g. infusion fluids.

The patient should be advised to discard the injection needle after each injection in accordance with local requirements.

OZEMPIC® should not be used if it does not appear clear and colourless.

OZEMPIC® can be administered with needles up to a length of 8 mm. The pen is designed to be used with NovoFine® and NovoTwist® disposable needles.

**DOSAGE FORMS, COMPOSITION AND PACKAGING**

OZEMPIC® is provided in a pre-filled, multi-dose, disposable pen, which contains the drug solution, semaglutide in a 1.5 mL cartridge.

Each 1 mL of OZEMPIC® solution contains 1.34 mg of semaglutide and the following non-medicinal ingredients disodium phosphate dihydrate, propylene glycol, phenol, and water for injections.

The primary packaging is a 1.5 mL glass cartridge (type I glass) closed at the one end with a rubber plunger (chlorobutyl) and at the other end with an aluminium cap with a rubber disc (bromobutyl/polyisoprene) inserted. The cartridge is assembled into a pre-filled multi-dose disposable pen made of polypropylene, polyoxymethylene, polycarbonate and acrylonitrile butadiene styrene.

There are two variants of the pre-filled multi-dose pen for OZEMPIC®.
Both variants of the pen contain 1.5 mL solution, equivalent to 2 mg semaglutide. Patients should not administer the full volume of the pen at any time.

NovoFine® Plus needles are included in the OZEMPIC® package.

Pack sizes of:

**Carton of 1 Pen**

- Pen delivers doses of 0.25 mg or 0.5 mg
- NovoFine® Plus needles
- Intended to be used for dose escalation and maintenance treatment at the 0.5 mg dose

**Carton of 2 Pens**

- Pen delivers 1 mg doses
- NovoFine® Plus needles
- Intended to be used for maintenance treatment at the 1 mg dose only
PART II: SCIENTIFIC INFORMATION

PHARMACEUTICAL INFORMATION

Drug Substance

Proper name: OZEMPIC®

Chemical name: Semaglutide

Molecular formula and molecular mass: C_{187} H_{291} N_{45} O_{59} and 4113.6 Dalton

Structural formula:

![Structural formula image]

Physicochemical properties: Each 1 mL of OZEMPIC® solution contains 1.34 mg of semaglutide. Each pre-filled pen contains a 1.5 mL solution of OZEMPIC® equivalent to 2 mg semaglutide.

Product Characteristics

OZEMPIC® (semaglutide) is a clear and colourless solution.

CLINICAL TRIALS

Study demographics and trial design

The efficacy and safety of OZEMPIC® 0.5 mg and 1 mg once-weekly were evaluated in six randomized controlled phase 3a trials. Of these, four trials [3626, 3624, 3625, and 3627 (SUSTAIN 2-5)] were combination trials that had glycemic efficacy assessment as the primary objective, while one 2 year trial 3744 (SUSTAIN 6) had safety (cardiovascular risk assessment) as the primary objective. Table 3 summarises the trial designs and study demographics of the four pivotal Phase 3a combination trials and the cardiovascular safety study (SUSTAIN 6).
<table>
<thead>
<tr>
<th>Study #</th>
<th>Trial design and duration</th>
<th>Dosage and route of administration</th>
<th>Background therapy</th>
<th>Study subjects (n = number)</th>
<th>Mean age (Range)</th>
<th>Gender N (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3626 (SUSTAIN 2)</td>
<td>Multicentre, multinational, 56-week, randomised, double-blind, double-dummy, parallel-group active-controlled trial</td>
<td>OZEMPIC® 0.5 mg SC once-weekly + sitagliptin placebo once-daily Or OZEMPIC® 1 mg SC once-weekly + sitagliptin placebo once-daily Or sitagliptin 100 mg once-daily + OZEMPIC® placebo 0.5mg SC once-weekly</td>
<td>Metformin, thiazolidinedione or Metformin + thiazolidinedione</td>
<td>1225</td>
<td>Mean (SD) 55.1 (10.0) Range 23-83</td>
<td>Female: 605 (49.4)  Male: 620 (50.6)</td>
</tr>
<tr>
<td>3624 (SUSTAIN 3)</td>
<td>Multicentre, multinational, 56-week, randomised, open-label, parallel-group, active-controlled trial</td>
<td>OZEMPIC® 1 mg SC once-weekly Or exenatide ER 2 mg once-weekly</td>
<td>1-2 OADs (metformin, thiazolidinedione or sulphonylurea)</td>
<td>809</td>
<td>Mean (SD) 56.6 (10.7) Range 20-83</td>
<td>Female: 362 (44.7)  Male: 447 (55.3)</td>
</tr>
<tr>
<td>3625 (SUSTAIN 4)</td>
<td>Multicentre, multinational, 30-week, randomised, open-label, parallel-group, active-controlled trial</td>
<td>OZEMPIC® 0.5 mg SC once-weekly Or OZEMPIC® 1 mg SC once-weekly Or Insulin glargine started at 10 IU SC, thereafter titrated to target once-daily</td>
<td>Metformin with or without sulphonylurea</td>
<td>1082</td>
<td>Mean (SD) 56.5 (10.4) Range 22-82</td>
<td>Female: 508 (47.0)  Male: 574 (53.0)</td>
</tr>
<tr>
<td>Study #</td>
<td>Trial design and duration</td>
<td>Dosage and route of administration</td>
<td>Background therapy</td>
<td>Study subjects (n = number)</td>
<td>Mean age (Range)</td>
<td>Gender N (%)</td>
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</tr>
<tr>
<td>3627 (SUSTAIN 5)</td>
<td>Multicentre, multinational, 30-week, randomised, double-blind, parallel-group, placebo-controlled trial</td>
<td>OZEMPIC® 0.5 mg SC once-weekly Or OZEMPIC® 1 mg SC once-weekly Or placebo 0.5 mg SC once-weekly Or placebo 1 mg SC once-weekly</td>
<td>Basal insulin with or without metformin</td>
<td>396</td>
<td>Mean (SD) 58.8 (10.1) Range 19-86</td>
<td>Female: 174 (43.9) Male: 222 (56.1)</td>
</tr>
<tr>
<td>3744 (SUSTAIN 6)</td>
<td>Multicentre, multinational, 30-week, randomised, double-blind, parallel-group, placebo-controlled cardiovascular outcomes trial</td>
<td>OZEMPIC® 0.5 mg SC once-weekly + standard of care Or OZEMPIC® 1 mg SC once-weekly + standard of care Or placebo 0.5 mg SC once-weekly + standard of care Or placebo 1 mg SC once-weekly + standard of care</td>
<td>Standard of care</td>
<td>3297</td>
<td>Mean (SD) 64.6 (7.4) Range 50-89</td>
<td>Female: 1295 (39.3) Male: 2002 (60.7)</td>
</tr>
</tbody>
</table>

*Randomised subjects exposed to at least one dose of semaglutide
OAD = Oral anti-diabetic
SD = Standard Deviation
SC – subcutaneous
*Sulfonylurea, Glinide, Alpha-glucosidase inhibitor or Thiazolidinediones

**Combination with metformin and/or thiazolidinediones - SUSTAIN 2**
In a 56-week randomized, double-blind double-dummy, active-controlled, parallel-group trial, 1231 patients were randomized 2:2:1:1 to OZEMPIC® 0.5 mg/sitagliptin placebo, OZEMPIC® 1 mg/sitagliptin placebo, sitagliptin/OZEMPIC® 0.5 mg placebo or sitagliptin/OZEMPIC® 1.0 mg placebo, all in combination with metformin (94%) and/or TZD (6%). Subjects continued pre-trial background medication throughout the entire trial. The primary objective was to compare the effect of once weekly dosing of 2 dose levels of semaglutide vs sitagliptin 100 mg once-daily on glycemic control after 56 weeks of treatment.
Patients had a mean age of 55 years and a mean duration of type 2 diabetes of 6.6 years, race: 68% White, 5% Black or African-American and 25% Asian, ethnicity: 17% were Hispanic or Latino (n=209). 51% were males and the mean BMI was 32 kg/m².

Treatment with OZEMPIC® 0.5 mg and 1 mg once-weekly for 56 weeks resulted in a statistically superior reduction in HbA1c compared to sitagliptin (see Table 4 and Figure 7).

**Table 4** Results at Week 56 in a Trial of OZEMPIC® Compared to Sitagliptin- Combination with metformin and/or thiazolidinediones

<table>
<thead>
<tr>
<th></th>
<th>OZEMPIC® 0.5 mg</th>
<th>OZEMPIC® 1 mg</th>
<th>Sitagliptin 100mg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Intent-to-Treat (ITT) Population (N)(^a)</strong></td>
<td>409</td>
<td>409</td>
<td>407</td>
</tr>
<tr>
<td><strong>HbA1c (%)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline (mean)</td>
<td>8.0</td>
<td>8.0</td>
<td>8.2</td>
</tr>
<tr>
<td>Change from baseline at week 56(^b)</td>
<td>-1.3</td>
<td>-1.5</td>
<td>-0.7</td>
</tr>
<tr>
<td>Difference from sitagliptin(^b) [95% Confidence Interval]</td>
<td>-0.6 [-0.7; -0.4]</td>
<td>-0.8 [-0.9; -0.6]</td>
<td>-</td>
</tr>
<tr>
<td>p-value(^c)</td>
<td>&lt;0.0001</td>
<td>&lt;0.0001</td>
<td>-</td>
</tr>
<tr>
<td><strong>Patients (%) achieving HbA1c &lt;7%</strong></td>
<td>66</td>
<td>73</td>
<td>40</td>
</tr>
<tr>
<td><strong>Fasting Plasma Glucose (mmol/L)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline (mean)</td>
<td>9.3</td>
<td>9.3</td>
<td>9.6</td>
</tr>
<tr>
<td>Change from baseline at week 56(^b)</td>
<td>-1.95</td>
<td>-2.41</td>
<td>-1.25</td>
</tr>
<tr>
<td><strong>Body weight (kg)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline (mean)</td>
<td>89.9</td>
<td>89.2</td>
<td>89.3</td>
</tr>
<tr>
<td>Change from baseline at week 56(^b)</td>
<td>-4.2</td>
<td>-5.5</td>
<td>-1.7</td>
</tr>
</tbody>
</table>

\(^a\)The intent-to-treat population includes all randomized and exposed patients. At week 56 the primary HbA1c endpoint was missing for 7%, 5% and 6% of patients and during the trial rescue medication was initiated by 5%, 2% and 19% of patients randomized to OZEMPIC® 0.5 mg, OZEMPIC® 1 mg and sitagliptin, respectively. Missing data were imputed using multiple imputation based on retrieved dropouts.

\(^b\)Intent-to-treat analysis using ANCOVA adjusted for baseline value and country.

\(^c\)2-sided p-value for non-inferiority (margin 0.3%) and superiority, tested hierarchically.
Combination with metformin or metformin with sulfonylurea - SUSTAIN 3

In a 56-week randomized open-label active-controlled trial, 813 patients on metformin alone (49%), metformin with sulfonylurea (45%) or thiazolidinediones (6%) were randomized 1:1 to OZEMPIC® 1 mg once-weekly or exenatide ER 2 mg once-weekly. Subjects were to continue pre-trial background medication throughout the entire trial.

The primary objective was to compare the effect of semaglutide 1.0 mg once-weekly vs exenatide ER 2.0 mg once-weekly on glycemic control after 56 weeks of treatment.

Patients had a mean age of 57 years and a mean duration of type 2 diabetes of 9 years, race: 84% White, 7% Black or African-American and 2% Asian, ethnicity: 24% (n=197) Hispanic or Latino. 55% were males and the mean BMI was 34 kg/m².

Treatment with OZEMPIC® 1 mg once-weekly for 56 weeks resulted in a statistically superior reductions in HbA₁c compared to exenatide ER 2 mg once-weekly (see Table 5).
Table 5  Results at Week 56 in a Trial of OZEMPIC® Compared to Exenatide 2 mg once-weekly - Combination with metformin or metformin with sulfonylurea

<table>
<thead>
<tr>
<th></th>
<th>OZEMPIC® 1 mg</th>
<th>Exenatide ER 2 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intent-to-Treat (ITT) Population (N)a</td>
<td>404</td>
<td>405</td>
</tr>
<tr>
<td>HbA1c (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline (mean)</td>
<td>8.4</td>
<td>8.3</td>
</tr>
<tr>
<td>Change at baseline week 56b</td>
<td>-1.4</td>
<td>-0.9</td>
</tr>
<tr>
<td>Difference from exenatide ER b [95% Confidence Interval]</td>
<td>-0.5 [-0.7; -0.3]</td>
<td>-</td>
</tr>
<tr>
<td>p-valuec</td>
<td>&lt;0.0001</td>
<td></td>
</tr>
<tr>
<td>Patients (%) achieving HbA1c &lt;7%</td>
<td>62</td>
<td>40</td>
</tr>
<tr>
<td>Fasting Plasma Glucose (mmol/L)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline (mean)</td>
<td>10.6</td>
<td>10.4</td>
</tr>
<tr>
<td>Change from baseline at week 56b</td>
<td>-2.47</td>
<td>-1.87</td>
</tr>
<tr>
<td>Body weight (kg)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline (mean)</td>
<td>96.2</td>
<td>95.4</td>
</tr>
<tr>
<td>Change at baseline week 56b</td>
<td>-4.8</td>
<td>-2.0</td>
</tr>
</tbody>
</table>

*aThe intent-to-treat population includes all randomized and exposed patients. At week 56 the primary HbA1c endpoint was missing for 9% and 11% of patients and during the trial rescue medication was initiated by 5% and 10% of patients randomized to OZEMPIC® 1 mg and exenatide ER 2 mg, respectively. Missing data were imputed using multiple imputation based on retrieved dropouts.

bIntent-to-treat analysis using ANCOVA adjusted for baseline value and country.

c2-sided p-value for non-inferiority (margin 0.3%) and superiority, tested hierarchically.

Combination with 1-2 oral antidiabetic drugs: metformin monotherapy or metformin and sulfonylurea- SUSTAIN 4

In a 30-week open-label active-controlled, parallel-group trial, 1089 patients were randomised 1:1:1 to OZEMPIC® 0.5 mg once-weekly, OZEMPIC® 1 mg once-weekly, or insulin glargine once-daily on a background of metformin (48%) or metformin and sulfonylurea (51%). Subjects were to continue pre-trial background medication throughout the entire trial. Patients on insulin glargine started on 10 U injected once-daily. The insulin dose adjustment aimed to reach a pre-breakfast FPG of 4.0 to <5.5 mmol/L (71- <100 mg/dL), with no maximum dose specified. The mean daily insulin dose at the end of the trial was 29 U per day.

The primary objective was to compare the effect of once-weekly dosing of 2 dose levels of semaglutide vs insulin glargine once-daily on glycaemic control after 30 weeks of treatment.

Patients had a mean age of 57 years and a mean duration of type 2 diabetes of 8.6 years, race: 77% White, 9% Black or African-Americans and 11% Asian, ethnicity: 20% (n=213) Hispanic or Latino. 53% were male and the mean BMI was 33 kg/m².

Treatment with OZEMPIC® 0.5 mg and 1 mg once-weekly for 30 weeks resulted in a statistically superior reduction- in HbA1c compared to insulin glargine (see Table 6).
Table 6  Results at Week 30 in a Trial of OZEMPIC® Compared to Insulin Glargine - Combination with 1-2 oral antidiabetic drugs: metformin monotherapy or metformin and sulfonylurea

<table>
<thead>
<tr>
<th>Intent-to-Treat (ITT) Population (N)a</th>
<th>OZEMPIC® 0.5 mg</th>
<th>OZEMPIC® 1 mg</th>
<th>Insulin Glargine</th>
</tr>
</thead>
<tbody>
<tr>
<td>HbA1c (%)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline (mean)</td>
<td>8.1</td>
<td>8.2</td>
<td>8.1</td>
</tr>
<tr>
<td>Change from baseline at week 30b</td>
<td>-1.2</td>
<td>-1.5</td>
<td>-0.9</td>
</tr>
<tr>
<td>Difference from insulin glargineb</td>
<td>-0.3</td>
<td>-0.6</td>
<td>-</td>
</tr>
<tr>
<td>[95% Confidence Interval]</td>
<td>[-0.5; -0.1]</td>
<td>[-0.8; -0.4]</td>
<td></td>
</tr>
<tr>
<td>p-valuec</td>
<td>&lt;0.0047</td>
<td>&lt;0.0001</td>
<td></td>
</tr>
<tr>
<td>Patients (%) achieving HbA1c &lt;7%c</td>
<td>55</td>
<td>66</td>
<td>40</td>
</tr>
<tr>
<td>Fasting Plasma Glucose (mmol/L)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline (mean)</td>
<td>9.6</td>
<td>9.9</td>
<td>9.7</td>
</tr>
<tr>
<td>Change from baseline at week 30b</td>
<td>-1.93</td>
<td>-2.56</td>
<td>-2.06</td>
</tr>
<tr>
<td>Body weight (kg)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline (mean)</td>
<td>93.7</td>
<td>94.0</td>
<td>92.6</td>
</tr>
<tr>
<td>Change from baseline at week 30b</td>
<td>-3.2</td>
<td>-4.7</td>
<td>0.9</td>
</tr>
</tbody>
</table>

a The intent-to-treat population includes all randomized and exposed patients. At week 30 the primary HbA1c endpoint was missing for 8%, 6% and 6% of patients and during the trial rescue medication was initiated by 4%, 3% and 1% of patients randomized to OZEMPIC® 0.5 mg, OZEMPIC® 1 mg and insulin glargine, respectively. Missing data were imputed using multiple imputation based on retrieved dropouts.
b Intent-to-treat analysis using ANCOVA adjusted for baseline value, country and stratification factors.
c 2-sided p-value for non-inferiority (margin 0.3%) and superiority, tested hierarchically.

Combination with basal insulin - SUSTAIN 5
In a 30-week randomized double-blind parallel-group trial, 397 patients inadequately controlled with basal insulin with or without metformin were randomized 2:2:1:1 to OZEMPIC® 0.5 mg once-weekly, OZEMPIC® 1 mg once-weekly or placebo 0.5 mg or placebo 1.0 mg once-weekly as add-on to the pre-trial background medication. Patients with HbA1c ≤ 8.0% at screening reduced the insulin dose by 20% at start of the trial to reduce the risk of hypoglycemia.

The primary objective was to demonstrate superiority of once-weekly dosing of 2 dose levels of semaglutide vs placebo on glycaemic control in subjects with T2D on basal insulin.

Patients had a mean age of 59 years and a mean duration of type 2 diabetes of 13 years, race: 78% White, 5% Black or African-American, 17% Asian, ethnicity: 12% (n=46) Hispanic or Latino. 56% were male and the mean BMI was 32 kg/m².

Treatment with OZEMPIC® 0.5 mg and 1 mg resulted in a statistically superior reduction in HbA1c after 30 weeks of treatment compared to placebo (see Table 7).
### Table 7
Results at Week 30 in a Trial of OZEMPIC® in Combination with Basal Insulin With or Without Metformin

<table>
<thead>
<tr>
<th>Intent-to-Treat (ITT) Population (N)a</th>
<th>OZEMPIC® 0.5 mg</th>
<th>OZEMPIC® 1 mg</th>
<th>Placebo</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HbA1c (%)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline (mean)</td>
<td>8.4</td>
<td>8.3</td>
<td>8.4</td>
</tr>
<tr>
<td>Change from baseline at week 30b</td>
<td>-1.3</td>
<td>-1.7</td>
<td>-0.2</td>
</tr>
<tr>
<td>Difference from placebo [95% Confidence Interval]</td>
<td>-1.1</td>
<td>-1.6</td>
<td>-</td>
</tr>
<tr>
<td>p-valuec</td>
<td>&lt;0.0001</td>
<td>&lt;0.0001</td>
<td></td>
</tr>
<tr>
<td><strong>Patients (%) achieving HbA1c &lt;7%</strong></td>
<td>56</td>
<td>73</td>
<td>13</td>
</tr>
<tr>
<td><strong>Fasting Plasma Glucose (mmol/L)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline (mean)</td>
<td>8.9</td>
<td>8.5</td>
<td>8.6</td>
</tr>
<tr>
<td>Change from baseline at week 30b</td>
<td>-1.55</td>
<td>-2.17</td>
<td>-0.45</td>
</tr>
<tr>
<td><strong>Body weight (kg)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseline (mean)</td>
<td>92.7</td>
<td>92.5</td>
<td>89.9</td>
</tr>
<tr>
<td>Change from baseline at week 30b</td>
<td>-3.5</td>
<td>-6.0</td>
<td>-1.2</td>
</tr>
</tbody>
</table>

*The intent-to-treat population includes all randomized and exposed patients. At week 30 the primary HbA1c endpoint was missing for 7%, 5% and 5% of patients and during the trial rescue medication was initiated by 14%, 2% and 1% of patients randomized to placebo, OZEMPIC® 0.5 mg and OZEMPIC® 1 mg, respectively. Missing data were imputed using multiple imputation based on retrieved dropouts.

**Cardiovascular Outcomes in Patients with Type 2 Diabetes and High Cardiovascular Risk**

SUSTAIN 6 was a 104-week, double-blind trial in which 3,297 patients with type 2 diabetes and high risk of cardiovascular events were randomized to OZEMPIC® 0.5 mg once weekly, OZEMPIC® 1 mg once weekly, or placebo in addition to standard-of-care. The primary objective of the trial was to confirm that treatment with semaglutide does not result in any unacceptable increase in cardiovascular risk as compared to placebo in adults with type 2 diabetes. This was done by demonstrating that the upper limit of the two-sided 95% confidence interval (CI) of the hazard ratio for semaglutide versus placebo is less than 1.8 when comparing time to first occurrence of a major adverse cardiovascular event (MACE).

In total, 2,735 (83%) of the patients had a history of cardiovascular disease and 562 (17%) were at high risk but without known cardiovascular disease. The mean age at baseline was 65 years, and 61% were men. The mean duration of diabetes was 13.9 years, and mean BMI was 33 kg/m2. Overall, 83% were White, 7% were Black or African American, and 8% were Asian; 16% identified as Hispanic or Latino ethnicity. Concomitant diseases of patients in this trial included, but were not limited to, heart failure (24%), hypertension (93%), history of ischemic stroke (12%) and history of a myocardial infarction (33%).

In total, 98.0% of the patients completed the trial and the vital status was known at the end of the trial for 99.6%. The primary composite endpoint was the time from randomisation to first
occurrence of a major adverse cardiovascular event (MACE): cardiovascular death, non-fatal myocardial infarction or non-fatal stroke. The total number of primary component MACE endpoints was 254 (108 [6.6%] with OZEMPIC® and 146 [8.9%] with placebo). The estimated hazard ratio of MACE associated with OZEMPIC® relative to placebo was 0.74 with a 95% confidence interval of (0.58, 0.95). No increased risk for MACE was observed with OZEMPIC®.

The results of SUSTAIN 6, including the contribution of each component to the primary composite endpoint, are shown in Figure 8.

<table>
<thead>
<tr>
<th>FAS</th>
<th>Hazard Ratio (95% CI)</th>
<th>Ozempic N (%)</th>
<th>Placebo N (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary endpoint – MACE</td>
<td>0.74 (0.58-0.95)</td>
<td>108 (6.6)</td>
<td>146 (8.9)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components of MACE</th>
<th>Hazard Ratio (95% CI)</th>
<th>Ozempic N (%)</th>
<th>Placebo N (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiovascular death</td>
<td>0.98 (0.65-1.48)</td>
<td>44 (2.7)</td>
<td>46 (2.8)</td>
</tr>
<tr>
<td>Non-fatal stroke</td>
<td>0.61 (0.38-0.99)</td>
<td>27 (1.6)</td>
<td>44 (2.7)</td>
</tr>
<tr>
<td>Non-fatal myocardial infarction</td>
<td>0.74 (0.51-1.08)</td>
<td>47 (2.9)</td>
<td>64 (3.9)</td>
</tr>
</tbody>
</table>

Figure 8       Forest plot: analyses of each individual cardiovascular event (SUSTAIN 6)

DETAILED PHARMACOLOGY

Semaglutide is a human GLP-1 receptor agonist produced in Saccharomyces cerevisiae by recombinant DNA technology followed by protein purification. For details on the mechanism of action see ACTION AND CLINICAL PHARMACOLOGY, Mechanism of Action.

TOXICOLOGY

Safety Pharmacology
Acute effects of semaglutide on vital organ function (central nervous system, cardiovascular system and respiration) and renal function were evaluated following subcutaneous dosing in rats or telemetered conscious unrestrained cynomolgus monkeys. Semaglutide was generally well tolerated, but displayed pharmacologically-mediated effects of abnormal gait (walking on toes), decreased touch response, passivity, dirty muzzle, lethargy, piloerection, and increased acute transient diuresis in the rat, at doses equivalent to the human Cmax exposure at the maximal recommended human dose (MRHD). In the monkey, no adverse effects were identified on acute cardiovascular function, at doses up to 14-fold the Cmax exposure at the MRHD. In vitro investigations (hERG ion channel assay and isolated rabbit Purkinje fibres) indicated no effects on cardiac repolarisation.
Repeat Dose Toxicity

Repeat dose toxicity studies were conducted in mice, rats and monkeys. Generally, decreased food consumption was observed in all studies and was accompanied by reduced body weight gain and body weights. Secondary to these effects, non-adverse clinical pathology and organ weight changes were observed across species. Clinical signs of decreased activity, hunched posture, and piloerection were also observed, during the first few weeks of dosing at the highest doses.

In a 13-week repeat-dose toxicity study, mice were dosed subcutaneously with 1, 3 and 10 mg/kg/day (17-, 57-, and 174-fold the human C_average exposure at the MRHD of 1 mg/week). Thyroid C-cell hyperplasia was observed at all dose levels and consequently, a NOAEL could not be identified for this study.

In a 26-week repeat-dose toxicity study, rats were dosed subcutaneously with 0.03, 0.13, and 0.6 mg/kg/day (1-, 6-, and 27-fold the human exposure at the MRHD). In the absence of any adverse findings, the NOAEL was determined to be 0.6 mg/kg/day.

In a 52-week repeat-dose toxicity study, cynomolgus monkeys were dosed subcutaneously with 0.01, 0.06, and 0.36 mg/kg/day (0.7-, 5-, and 27-fold the human exposure at the MRHD). Electrocardiography (ECG) recordings revealed a continuous left-bundle-branch-block ECG recording in Weeks 26 and 52 in one high-dose female. In addition, histopathology revealed multifocal myocardial vacuolation, with karyomegaly, in the left ventricle of one high-dose male. As it could not be excluded that these findings were treatment related, 0.06 mg/kg twice-weekly was determined to be the NOAEL.

Carcinogenesis

Non-lethal thyroid C-cell tumours observed in rodents are a class effect for GLP-1 receptor agonists. In a 2-year carcinogenicity study in - mice, subcutaneous doses of 0.3, 1 and 3 mg/kg/day (5-, 17-, and 59-fold the human exposure, based on C_average, at the MRHD) was administered to the males, and 0.1, 0.3 and 1 mg/kg/day (2-, 5-, and 17-fold the human exposure at the MRHD) was administered to the females. High incidence rates of focal/multifocal C-cell hyperplasia and C-cell adenoma were observed in both sexes at all doses. In control animals, the incidence rate of C-cell hyperplasia was very low and no incidences of C-cell adenoma were observed. The increase in thyroid C-cell adenomas was statistically significant in both sexes at all doses. A numerical increase in C-cell carcinomas was observed in males and females at all doses, while no incidences of C-cell carcinomas were observed in control animals. A NOAEL could not be identified for this study.

In a 2-year carcinogenicity study in Sprague Dawley rats, subcutaneous doses of 0.0025, 0.01, 0.025 and 0.1 mg/kg/day were administered (below quantification, 0.4-, 1.0-, and 5.76 fold the human exposure at the MRHD). An increase in incidence of focal C-cell hyperplasia of the thyroid was observed in males at all doses. A statistically significant increase in thyroid C-cell adenomas was observed in males and females at all doses, and a statistically significant increase in thyroid C-cell carcinomas was observed in males at ≥0.01 mg/kg/day, and in females at 0.1 mg/kg/day. The increases in the incidences of thyroid C-cell adenomas and carcinomas were largely dose-dependent. A NOAEL could not be identified for this study.
In both studies, the increased incidences of thyroid C-cell hyperplasia, adenoma, and carcinoma were determined to be treatment-related. Thyroid C-cell tumours are rare findings during carcinogenicity testing in mice and rats. The human relevance of thyroid C-cell tumors in these rodent species is unknown and could not be determined based on the results of the clinical or nonclinical studies (see WARNINGS AND PRECAUTIONS, Carcinogenesis and Mutagenesis).

No other treatment-related tumours were observed in the carcinogenicity studies.

**Genotoxicity**
Semaglutide was not mutagenic or clastogenic in a standard battery of genotoxicity tests (bacterial reverse mutation test, in vitro chromosomal aberration test in human peripheral blood lymphocytes, and in vivo rat bone marrow micronucleus test).

**Reproductive and Developmental Toxicity**
In a combined fertility and embryo-fetal developmental toxicity study in rats, subcutaneous doses of 0.01, 0.03 and 0.09 mg/kg/day (0.1-, 0.4-, and 1.1-fold the human C_{average} exposure at the MRHD) were administered to male and female rats. Males were dosed for 4 weeks prior to mating, and females were dosed for 2 weeks prior to mating and throughout organogenesis until Gestation Day (GD) 17. No effects were observed on mating performance or male fertility. In females, an increase in estrus cycle length was observed at all dose levels, together with a small reduction in numbers of corpora lutea (ovulations) at ≥0.03 mg/kg/day. Semaglutide caused embryotoxicity below clinically relevant exposures. Semaglutide caused reductions in maternal body weight, and reduction in number of corpora lutea, leading to fewer implantations and reduced fetal growth. In fetuses, increased incidences of skeletal and visceral malformations were observed at the mid and high dose, consisting of short tibia/malrotated hindlimb at the high dose and retro-oesophageal aortic arch (cardiovascular malformation) in combination with variation in the origin of the right subclavian artery observed at the two highest doses. Increased incidences of minor abnormalities were also observed at the high-dose, including skeletal variations (partially fused, misaligned, or reduced ossification of skeletal components) and dilated lateral brain ventricles. Thus, the NOAEL for the embryo-fetal toxicity of semaglutide in rats was determined to be 0.01 mg/kg/day.

In an embryo-fetal developmental toxicity study in rabbits, subcutaneous doses of 0.001, 0.0025 and 0.0075 mg/kg/day (0.03-, 0.3-, and 2.3-fold the human exposure at the MRHD) were administered to female rabbits throughout organogenesis i.e. from GD6 to GD19. Semaglutide markedly reduced maternal body weight gain and food and water consumption. Semaglutide caused increased post-implantation losses and an increased incidence of incomplete ossification of metacarpals (skeletal variation) at the mid and the high dose, and increased incidences of other minor, non-adverse skeletal abnormalities at all dose levels. There was also an increased incidence of minor visceral abnormalities, consisting of dilated renal pelvis at the high dose, and increased incidences of forelimb/paw flexure at the mid and high doses. An increased number of visceral malformations were also observed at the mid and high dose that were not observed in controls, and consisted of multiple folded retina: absent vitreous humour, misshapen heart: dilated pulmonary trunk, absent kidney/ureter, absent adrenals, and bent scapula: hyperextension of the forelimb. Thus, the NOAEL for the embryo-fetal toxicity of semaglutide in rabbits was
determined to be 0.001 mg/kg/day.

In an embryo-fetal developmental toxicity study in cynomolgus monkeys, subcutaneous doses of 0.015, 0.075, and 0.15 mg/kg (1.0-, 5.2-, and 14.9-fold the human exposure at the MRHD) were administered to pregnant monkeys from GD 20 to 50 every 3 days. Marked maternal body weight loss and reduced food consumption was observed at all doses during the dosing period. A slightly increased incidence of fetal malformations was observed at the mid- and high-dose. The fetal abnormalities included skeletal abnormalities, consisting of shifts in the alignment of the vertebrae, ribs, and sternebrae at the cervico-thoracic border observed in one fetus of each of the mid- and high-dose groups, a misshapen right brain hemisphere, which was due to accumulation of blood between the dura mater and the brain, in a high-dose fetus, fused kidneys in a mid-dose fetus, and liver cysts in another mid-dose fetus. Thus, the NOAEL for the embryo-fetal toxicity of semaglutide in cynomolgus monkeys was determined to be 0.015 mg/kg administered every 3 days.

In a combined embryo-fetal and pre- and post-natal developmental toxicity study in cynomolgus monkeys, subcutaneous doses of 0.015, 0.075, and 0.15 mg/kg (0.7-, 3.3-, and 7.2-fold the human exposure at the MRHD) were administered to pregnant monkeys from GD 20 to 140 every 3 days. A higher incidence of pre-natal loss was observed in the mid- and high-dose groups. The incidence of pre-natal loss was 5/24 (21%), 5/22 (23%), 7/22 (32%), and 10/24 (42%) in the control, low-, mid-, and high-dose groups, respectively, with the most losses occurring between GD 20 and 50; early pre-natal loss was 2/24 (8.3%), 1/22 (4.5%), 5/22 (23%), and 8/24 (33%) in the control, low-, mid-, and high-dose groups, respectively. A higher incidence of post-natal loss was also observed at all doses. The incidence of post-natal loss was 0/19 (0%), 5/17 (29%), 3/15 (20%), and 3/14 (21%) in the control, low-, mid-, and high-dose groups, respectively. Infants were also slightly smaller at delivery in the two highest dose groups, but recovered during the lactation period. The NOAEL for the developmental toxicity of semaglutide in cynomolgus monkeys was determined to be 0.015 mg/kg administered every 3 days.

In a juvenile toxicity study in rats, subcutaneous doses of 0.02, 0.13 and 0.6 mg/kg/day (0.7-, 5.4-, and 22-fold the human exposure at the MRHD) were administered to young rats from Postnatal Day 21 to 98. As in other studies, lower body weight gain, body weights, and food consumption were observed in animals administered semaglutide when compared to control animals. Semaglutide also caused a delay in sexual maturation in both males and females. There were no consequential effects on estrus cycle length, the reproductive organs of either sex, the reproductive capacity of either sex, or on the ability of the females to maintain pregnancy.

REFERENCES

READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

PATIENT MEDICATION INFORMATION

OZEMPIC®
(semaglutide injection)

Read this carefully before you start taking OZEMPIC® and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about OZEMPIC®.

Keep this leaflet. You may need to read it again. If you have any further questions, ask your doctor, pharmacist or nurse.

This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See What are the Possible Side Effects of Using OZEMPIC®.

What is OZEMPIC® used for?
OZEMPIC® contains the active substance semaglutide. It is used to lower blood sugar (glucose) in adults with type 2 diabetes.

OZEMPIC® is used on its own if your blood sugar level is not properly controlled by diet and exercise alone and you cannot use metformin.

OZEMPIC® is used in combination with one or more other medicines for diabetes when they are not enough to control your blood sugar levels. These other medicines may include: oral antidiabetics (such as metformin, sulfonylurea medicines) or insulin.

It is important that you keep following any diet and lifestyle advice from your doctor, pharmacist or nurse while using OZEMPIC®.

OZEMPIC® is not a substitute for insulin. OZEMPIC® should not be used in patients with Type 1 diabetes mellitus (formerly known as insulin-dependent diabetes mellitus or IDDM), or for treatment of diabetic ketoacidosis.

How does OZEMPIC® work?
OZEMPIC® belongs to a class of medicines called GLP-1 receptor agonists (glucagon-like peptide-1 receptor agonists). OZEMPIC® helps your body make more insulin when your blood sugar is high.
What is type 2 diabetes?
Type 2 diabetes is a condition in which:
• Your body does not make enough insulin to control the level of sugar in your blood or
• Your body is not able to use the insulin it makes properly.

What are the ingredients in OZEMPIC®?
Medicinal ingredients: semaglutide. One mL solution for injection contains 1.34 mg semaglutide.

Non-medicinal ingredients: disodium phosphate dihydrate, propylene glycol, phenol, and water for injections.

OZEMPIC® comes in the following dosage forms:
OZEMPIC® is supplied as a clear and colourless solution for injection in a pre-filled pen. Each pen contains 1.5 mL of solution.

OZEMPIC® is available in a carton of 1 disposable, pre-filled, multi-dose pen delivering doses of 0.25 mg or 0.5 mg, including NovoFine® Plus needles. This pack size is intended to be used for dose escalation and maintenance treatment at the 0.5 mg dose.

OZEMPIC® is also available in a carton of 2 disposable, pre-filled, multi-dose pens delivering only doses of 1 mg, including NovoFine® Plus needles. This pack size is intended to be used for maintenance treatment at the 1 mg dose only.

Do not use OZEMPIC® if:
• You are allergic to semaglutide or any of the other ingredients of this medicine.
• You or a member of your family has ever had medullary thyroid cancer (MTC).
• You have Multiple Endocrine Neoplasia syndrome type 2 (MEN 2).
• You are pregnant or breastfeeding.

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take OZEMPIC®. Talk about any health conditions or problems you may have, including if you:
• A member of your family has or has had medullary thyroid carcinoma, or if you have Multiple Endocrine Neoplasia syndrome type 2 (MEN 2).
• Have type 1 diabetes.
• Have ever had diabetic ketoacidosis (increased ketones in the blood or urine).
• Have ever had an allergic reaction to OZEMPIC®.
• Have a high heart rate (fast pulse).
• Have ever had pancreatitis.
• Are breastfeeding or plan to breastfeed.
• Are pregnant or plan to become pregnant.
• Have end stage renal disease.
• Have gastrointestinal (digestive) problems, including severe vomiting, diarrhea and/or dehydration.
• Have hepatic (liver) disease.
• Have diabetic retinopathy.
Other warnings you should know about:

Children and adolescents
OZEMPIC® is not recommended in children and adolescents under 18 years as the safety and efficacy in this age group have not yet been established.

Pregnancy and breast-feeding
Tell your doctor if you are pregnant, think you might be pregnant, or are planning to become pregnant. OZEMPIC® should not be used during pregnancy and for at least two months before a planned pregnancy because it is not known if it may affect your unborn child.

If you could become pregnant while using OZEMPIC®, it is recommended to use contraception.

Do not use this medicine if you are breast-feeding. This is because it is not known if OZEMPIC® passes into breast milk.

Driving and using machines
Low blood sugar (hypoglycaemia) may affect your ability to concentrate. Avoid driving or using machines if you get any signs of low blood sugar. See What are the Possible Side Effects from Using OZEMPIC® for the warning signs of low blood sugar. Talk to your doctor for further information.

Severe and on-going stomach pain which could be due to acute pancreatitis
If you have severe and on-going pain in the stomach area – see a doctor straight away as this could be a sign of acute pancreatitis (inflamed pancreas).

Dehydration
During treatment with OZEMPIC®, you may experience feeling sick (nausea) or being sick (vomiting), and diarrhoea. These side effects can cause dehydration (loss of fluids). It is therefore important to drink plenty of fluids to prevent dehydration. Talk to your doctor if you have any questions or concerns.

Diabetic eye disease (retinopathy)
Fast improvements in blood sugar control may lead to a temporary worsening of diabetic eye disease. This may require treatment or lead to a loss of vision. You should inform your doctor if you have diabetic eye disease (retinopathy) or if you experience eye problems during treatment with OZEMPIC®.

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.
In particular, tell your doctor, pharmacist or nurse if you are using medicines containing any of the following:

- Sulfonylurea
- Insulin

Combining these medicines with OZEMPIC® might increase the risk of getting low blood sugar (hypoglycaemia). Please see What are the Possible Side Effects from Using OZEMPIC® for the
warning signs of low blood sugar. Your doctor may tell you to lower your regular dose levels of these drugs when adding OZEMPIC® treatment.

**The following may interact with OZEMPIC®:**
The following list includes some, but not all, of the drugs that may increase your heart rate. You should check with your doctor or pharmacist before taking any other medication with OZEMPIC®:

- Drugs to treat hypertension.
- Drugs to treat heart failure.
- Drugs to treat HIV infection.
- Drugs to treat attention deficit-hyperactivity disorder.
- Drugs to suppress appetite/cause weight loss.
- Decongestants.
- Drugs to treat asthma.

**How to take OZEMPIC®:**
OZEMPIC® is given as an injection under the skin (subcutaneous injection). Do not inject it into a vein or muscle. The best places to give the injection are the front of your thighs, the front of your waist (abdomen), or your upper arm.

Before you use the pen for the first time, your doctor or Diabetes Nurse Educator will show you how to use it.

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

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

You should use OZEMPIC® once a week on the same day each week if possible. You can give yourself the injection at any time of the day – regardless of meals. To help you remember to inject OZEMPIC® once a week only, it is recommended to note the chosen weekday (e.g. Wednesday) on the carton. You can also write the date on the carton every time you have injected OZEMPIC®.

If necessary you can change the day of your weekly injection of OZEMPIC® as long as it has been at least 2 days since your last injection of OZEMPIC®.

Do not stop using OZEMPIC® without talking to your doctor. If you stop using it, your blood sugar levels may increase.

**Usual dose:**
When you first start using OZEMPIC®, the starting dose is 0.25 mg once a week for four weeks. After four weeks you should increase your dose to 0.5 mg once a week. Talk to your doctor before increasing your dose.

Your doctor may increase your dose to 1 mg once a week if your blood sugar is not controlled...
well enough with a dose of 0.5 mg.

Do not change your dose unless your doctor has told you to.

**Overdose:**
If you use more OZEMPIC® than you should, talk to your doctor straight away. You may get side effects such as feeling sick (nausea) or being sick (vomiting), or diarrhoea.

If you think you have taken too much OZEMPIC®, contact your healthcare professional, hospital emergency department or regional Poison Control Centre immediately, even if there are no symptoms.

**Missed Dose:**
If you forgot to inject a dose and:
- It is 5 days or less since you should have used OZEMPIC®, use it as soon as you remember. Then inject your next dose as usual on your scheduled day.
- It is more than 5 days since you should have used OZEMPIC®, skip the missed dose. Then inject your next dose as usual on your scheduled day.

Do not take an extra dose or increase the dose to make up for a missed dose.

**What are possible side effects from using OZEMPIC®?**
Like all medicines, this medicine can cause side effects, although not everybody gets them.

**Very common:** may affect more than 1 in 10 people
- Feeling sick (nausea) – this usually goes away over time
- Diarrhoea – this usually goes away over time
- Low blood sugar (hypoglycaemia) when OZEMPIC® is used with a sulfonylurea or insulin.

The warning signs of low blood sugar may come on suddenly. They can include: cold sweat, cool pale skin, headache, fast heartbeat, feeling sick (nausea) or very hungry, changes in vision, feeling sleepy or weak, feeling nervous, anxious or confused, difficulty concentrating or shaking.

Your doctor will tell you how to treat low blood sugar and what to do if you notice these warning signs.

**Common:** may affect up to 1 in 10 people
- Being sick (vomiting)
- Low blood sugar (hypoglycaemia) when OZEMPIC® is used with an oral antidiabetic other than a sulfonylurea
- Indigestion
- Inflamed stomach (‘gastritis’) - the signs also include stomach ache, feeling sick (nausea), or being sick (vomiting)
- Reflux or heartburn – also called ‘gastro-esophageal reflux disease’ (GERD)
- Stomach pain
• Bloating of the stomach
• Constipation
• Burping
• Gall stones
• Feeling dizzy
• Feeling tired
• Weight loss
• Less appetite
• Gas (flatulence)
• Increase of pancreatic enzymes (such as lipase and amylase).
• Complications of diabetic eye disease (retinopathy)

Uncommon: may affect up to 1 in 100 people
• Change in the way food or drink tastes
• Fast pulse
• Injection site reactions – such as bruising, pain, irritation, itching and rash.

Rare: may affect up to 1 in 1,000 people
• Severe allergic reactions (anaphylactic reactions). You should seek immediate medical help and inform your doctor straight away if you get symptoms such as breathing problems, swelling of face and throat and a fast heartbeat.

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<td>Severe allergic reaction (anaphylactic reaction) symptoms: breathing problems, swelling of face and throat and a fast heartbeat.</td>
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*The risk of severe hypoglycaemia is higher depending on the other diabetes medications you may be taking.

Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, talk to your healthcare professional.

Reporting Side Effects

You can help improve the safe use of health products for Canadians by reporting serious and unexpected side effects to Health Canada. Your report may help to identify new side effects and change the product safety information.

3 ways to report:

- Online at MedEffect (https://hpr-rps.hres.ca/static/content/form-formule.php);
- By calling 1-866-234-2345 (toll-free);
- By emailing CanadaVigilance@hc-sc.gc.ca
- By completing a Consumer Side Effect Reporting Form and sending it by:
  - Fax to 1-866-678-6789 (toll-free), or
  - Mail to: Canada Vigilance Program
    Health Canada, Postal Locator 1908C
    Ottawa, ON
    K1A 0K9
    Postage paid labels and the Consumer Side Effect Reporting Form are available at MedEffect (www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/adverse-reaction-reporting.html).

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

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

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

Before opening:
Store in a refrigerator (2°C – 8°C). Do not freeze. Keep away from the cooling element.

During use:
- You can keep the pen for 8 weeks when stored at a temperature below 30°C or in a refrigerator (2°C – 8°C). Do not freeze.
- When you are not using the pen, keep the pen cap on in order to protect it from light.

Do not use this medicine if the solution is not clear and colourless.
Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

If you want more information about OZEMPIC®?:

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website; the manufacturer’s website: www.novonordisk.ca, or by calling 1-800-465-4334.

This leaflet was prepared by Novo Nordisk Canada Inc.

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Instructions on how to use OZEMPIC® solution for injection in pre-filled pen 0.25 mg or 0.5 mg doses

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

**Do not use the pen without proper training** from your doctor or nurse.

Start by checking your pen to **make sure that it contains OZEMPIC® 0.25 mg or 0.5 mg doses**, then look at the illustrations below to get to know the different parts of your pen and needle.

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

Your pen is a pre-filled dial-a-dose pen. It contains 2 mg of semaglutide, and you can select doses of 0.25 mg or 0.5 mg. Your pen is designed to be used with NovoFine® and NovoTwist® disposable needles up to a length of 8 mm. NovoFine® Plus needles are included in the pack.

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**Important information**

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

1. **Prepare your pen with a new needle**
   - Check the name and coloured label of your pen to make sure that it contains OZEMPIC® 0.25 or 0.5 mg doses. This is especially important if you take more than one type of injectable medicine. Using the wrong medicine could be harmful to your health.
   - Pull off the pen cap.
• **Check that the solution in your pen is clear** and colourless. Look through the pen window. If the solution looks cloudy or coloured, do not use the pen.

• **Take a new needle** and tear off the paper tab. If the paper tab is broken, do not use the needle, as sterility is not guaranteed.

• **Push the needle straight onto the pen. Turn until it is on tight.**

• **Pull off the outer needle cap and keep it for later.** You will need it after the injection, to safely remove the needle from the pen.

• **Pull off the inner needle cap and throw it away.** If you try to put it back on, you may accidentally stick yourself with the needle.

A drop of solution may appear at the needle tip. This is normal, but you must still check the flow, if you use a new pen for the first time.

**Do not attach a new needle** to your pen until you are ready to take your injection.

⚠️ **Always use a new needle for each injection.** This may prevent blocked needles, contamination, infection and inaccurate dosing.

⚠️ **Never use a bent or damaged needle.**

2. **Check the flow**

• **Before your first injection with each new pen, check the flow.** If your pen is already in use, go to step 3 ‘Select your dose’.

• **Turn the dose selector until the dose counter shows the flow check symbol ( ).**
• Hold the pen with the needle pointing up. 

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

A drop of solution should appear at the needle tip.

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

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

⚠️ Always make sure that a drop appears at the needle tip before you use a new pen for the first time. This makes sure that the solution flows.

If no drop appears, you will **not** inject any medicine even though the dose counter may move. **This may indicate a blocked or damaged needle.**

If you do not check the flow before your first injection with each new pen, you may not get the prescribed dose and the intended effect of **OZEMPIC**.

### 3. Select your dose

• **Turn the dose selector until the dose counter shows your dose (0.25 mg or 0.5 mg).**

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

  The pen can dial up to a maximum of 0.5 mg.

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

You can select up to 0.5 mg per dose. When your pen contains less than 0.5 mg, the dose counter stops before 0.5 is shown.

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

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

Do not count the pen clicks.

**Only doses of 0.25 mg or 0.5 mg must be selected with the dose selector.** The selected dose must line up precisely with the dose pointer to ensure that you get a correct dose.

### How much solution is left

• **To see how much solution is left**, use the dose counter: Turn the dose selector until the **dose counter stops**.
If it shows 0.5, **at least 0.5 mg** is left in your pen. If the **dose counter stops before 0.5 mg**, there is not enough solution left for a full dose of 0.5 mg.

⚠️ If there is not enough solution left in your pen for a full dose, do not use it. Use a new OZEMPIC® pen.

### 4. Inject your dose

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

- **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.

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

- **Remove the needle from your skin.** If blood appears at the injection site, press lightly. Do not rub the area.

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

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

#### How to identify a blocked or damaged needle

- If 0 does not appear in the dose counter after continuously pressing the dose button, you may have used a blocked or damaged needle.
- In this case, you have **not** received any medicine even though the dose counter has moved from the original dose that you have set.
How to handle a blocked needle
Change the needle as described in step 5 ‘After your injection’ and repeat all steps starting with step 1 ‘Prepare your pen with a new needle’. Make sure you select the full dose you need.

Never touch the dose counter when you inject. This can interrupt the injection.

5. After your injection

- Lead the needle tip into the outer needle cap on a flat surface without touching the needle or the outer needle cap.

- Once the needle is covered, carefully push the outer needle cap completely on.
- Unscrew the needle and dispose of it carefully.

- Put the pen cap on your pen after each use to protect the solution from light.

Always dispose of the needle after each injection to ensure convenient injections and prevent blocked needles. If the needle is blocked, you will not inject any medicine. When the pen is empty, throw it away without a needle on as instructed by your doctor, nurse, pharmacist or local authorities.

⚠️ 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 immediately after each injection. This may prevent blocked needles, contamination, infection, leakage of solution and inaccurate dosing.

⚠️ Further important information

- Always keep your pen and needles out of the sight and reach of others, especially children.
- Never share your pen or your needles with other people.
- Caregivers must be very careful when handling used needles to prevent needle injury and cross-infection.

Caring for your pen
Treat your pen with care. Rough handling or misuse may cause inaccurate dosing, which may lead to high blood sugar levels or abdominal discomfort such as nausea or vomiting.

- Do not leave the pen in a car or another place where it can get too hot or too cold.
- Do not inject OZEMPIC® which has been frozen. If you do that, your blood sugar level may get too high or you might feel abdominal discomfort such as nausea or vomiting.
- Do not inject OZEMPIC® which has been exposed to direct sunlight. If you do that, your blood sugar level may get too high.
• Do not expose your pen to dust, dirt or liquid.
• Do not wash, soak or lubricate your pen. If necessary, clean it with a mild detergent on a moistened cloth.
• Do not drop your pen or knock it against hard surfaces. If you drop it or suspect a problem, attach a new needle and check the flow before you inject.
• Do not try to refill your pen. Once empty, it must be disposed of.
• Do not try to repair your pen or pull it apart.
Instructions on how to use OZEMPIC® solution for injection in pre-filled pen 1 mg doses

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

Do not use the pen without proper training from your doctor or nurse.

Start by checking your pen to make sure that it contains OZEMPIC® 1 mg, then look at the illustrations below to get to know the different parts of your pen and needle.

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

Your pen is a pre-filled dial-a-dose pen. It contains 2 mg of semaglutide, and you can only select doses of 1 mg. Your pen is designed to be used with NovoFine® and NovoTwist® disposable needles up to a length of 8 mm. NovoFine® Plus needles are included in the pack.

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

1. Prepare your pen with a new needle

- Check the name and coloured label of your pen, to make sure that it contains OZEMPIC® 1 mg. This is especially important if you take more than one type of injectable medicine. Using the wrong medicine could be harmful to your health.
- Pull off the pen cap.
• Check that the solution in your pen is clear and colourless. Look through the pen window. If the solution looks cloudy or coloured, do not use the pen.

• Take a new needle and tear off the paper tab. If the paper tab is broken, do not use the needle, as sterility is not guaranteed.

• Push the needle straight onto the pen. Turn until it is on tight.

• Pull off the outer needle cap and keep it for later. You will need it after the injection, to safely remove the needle from the pen.

• Pull off the inner needle cap and throw it away. If you try to put it back on, you may accidentally stick yourself with the needle.

A drop of solution may appear at the needle tip. This is normal, but you must still check the flow, if you use a new pen for the first time. **Do not attach a new needle** to your pen until you are ready to take your injection.

⚠️ **Always use a new needle for each injection.**

This may prevent blocked needles, contamination, infection and inaccurate dosing.

⚠️ **Never use a bent or damaged needle.**

2. Check the flow

• Before your first injection with each new pen, check the flow. If your pen is already in use, go to step 3 ‘Select your dose’.

• Turn the dose selector until the dose counter shows the flow check symbol ( ** ).
Hold the pen with the needle pointing up. **Press and hold in the dose button** until the dose counter returns to 0. The 0 must line up with the dose pointer.

A drop of solution should appear at the needle tip.

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

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

Always make sure that a drop appears at the needle tip before you use a new pen for the first time. This makes sure that the solution flows. If no drop appears, you will not inject any medicine, even though the dose counter may move. **This may indicate a blocked or damaged needle.**

If you do not check the flow before your first injection with each new pen, you may not get the prescribed dose and the intended effect of OZEMPIC®.

3. **Select your dose**

**Turn the dose selector to select 1 mg.**
Keep turning until the dose counter stops and shows 1 mg.

Only the dose counter and dose pointer will show that 1 mg has been selected. You can only select 1 mg per dose. When your pen contains less than 1 mg, the dose counter stops before 1 is shown.
The dose selector clicks differently when turned forwards, backwards or past 1 mg. Do not count the pen clicks.

Always use the dose counter and the dose pointer to see that 1 mg has been selected before injecting this medicine. Do not count the pen clicks.

**Only doses of 1 mg must be selected with the dose selector.** 1 mg must line up precisely with the dose pointer to ensure that you get a correct dose.

**How much solution is left**
• **To see how much solution is left**, use the dose counter: Turn the dose selector until the **dose counter stops**.
  
  If it shows 1, **at least 1 mg is left** in your pen.  
  If the **dose counter stops before 1 mg**, there is not enough solution left for a full dose of 1 mg.

⚠️ **If there is not enough solution left in your pen for a full dose, do not use it. Use a new OZEMPIC® pen.**

### 4. Inject your dose

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

- **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.

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

- **Remove the needle from your skin.** If blood appears at the injection site, press lightly. Do not rub the area.

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

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

**How to identify a blocked or damaged needle**

- If 0 does not appear in the dose counter after continuously pressing the dose button, you may have used a blocked or damaged needle.
- In this case, you have **not** received any medicine – even though the dose counter has moved from the original dose that you have set.
How to handle a blocked needle
Change the needle as described in step 5 ‘After your injection’ and repeat all steps starting with step 1 ‘Prepare your pen with a new needle’. Make sure you select the full dose you need.

**Never touch the dose counter when you inject.** This can interrupt the injection.

### 5. After your injection

- **Lead the needle tip into the outer needle cap** on a flat surface without touching the needle or the outer needle cap. ![Image A](image)
- Once the needle is covered, **carefully push the outer needle cap completely on.**
- **Unscrew the needle** and dispose of it carefully. ![Image B](image)
- **Put the pen cap on** your pen after each use to protect the solution from light. ![Image C](image)

Always dispose of the needle after each injection to ensure convenient injections and prevent blocked needles. If the needle is blocked, you will not inject any medicine. When the pen is empty, throw it away without a needle on as instructed by your doctor, nurse, pharmacist or local authorities.

⚠️ **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 immediately after each injection.**
This may prevent blocked needles, contamination, infection, leakage of solution and inaccurate dosing.

⚠️ **Further important information**
- Always keep your pen and needles **out of the sight and reach of others**, especially children.
- **Never share** your pen or your needles with other people.
- Caregivers must be very careful when handling used needles to prevent needle injury and cross-infection.

### Caring for your pen

Treat your pen with care. Rough handling or misuse may cause inaccurate dosing, which may lead to high blood sugar levels or abdominal discomfort such as nausea or vomiting.

- **Do not leave the pen in a car** or another place where it can get too hot or too cold.
- **Do not inject OZEMPIC® which has been frozen.** If you do that, your blood sugar level may get too high or you might feel abdominal discomfort such as nausea or vomiting.
- **Do not inject OZEMPIC® which has been exposed to direct sunlight.** If you do that, your blood sugar level may get too high.
• Do not expose your pen to dust, dirt or liquid.
• Do not wash, soak or lubricate your pen. If necessary, clean it with a mild detergent on a moistened cloth.
• Do not drop your pen or knock it against hard surfaces. If you drop it or suspect a problem, attach a new needle and check the flow before you inject.
• Do not try to refill your pen. Once empty, it must be disposed of.
• Do not try to repair your pen or pull it apart.