

ANNEX I

SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

Zomarist 50 mg/850 mg film-coated tablets
Zomarist 50 mg/1000 mg film-coated tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Zomarist 50 mg/850 mg film-coated tablets

Each film-coated tablet contains 50 mg of vildagliptin and 850 mg of metformin hydrochloride (corresponding to 660 mg of metformin).

Zomarist 50 mg/1000 mg film-coated tablets

Each film-coated tablet contains 50 mg of vildagliptin and 1000 mg of metformin hydrochloride (corresponding to 780 mg of metformin).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Film-coated tablet.

Zomarist 50 mg/850 mg film-coated tablets

Yellow, ovaloid film-coated tablet with bevelled edge, imprinted with “NVR” on one side and “SEH” on the other side.

Zomarist 50 mg/1000 mg film-coated tablets

Dark yellow, ovaloid film-coated tablet with bevelled edge, imprinted with “NVR” on one side and “FLO” on the other side.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Zomarist is indicated as an adjunct to diet and exercise to improve glycaemic control in adults with type 2 diabetes mellitus:

- in patients who are inadequately controlled with metformin hydrochloride alone.
- in patients who are already being treated with the combination of vildagliptin and metformin hydrochloride, as separate tablets.
- in combination with other medicinal products for the treatment of diabetes, including insulin, when these do not provide adequate glycaemic control (see sections 4.4, 4.5 and 5.1 for available data on different combinations).

4.2 Posology and method of administration

Posology

Adults with normal renal function (GFR \geq 90 ml/min)

The dose of antihyperglycaemic therapy with Zomarist should be individualised on the basis of the patient's current regimen, effectiveness and tolerability while not exceeding the maximum recommended daily dose of 100 mg vildagliptin. Zomarist may be initiated at either the 50 mg/850 mg

or 50 mg/1000 mg tablet strength twice daily, one tablet in the morning and the other in the evening.

- For patients inadequately controlled at their maximal tolerated dose of metformin monotherapy: The starting dose of Zomarist should provide vildagliptin as 50 mg twice daily (100 mg total daily dose) plus the dose of metformin already being taken.

- For patients switching from co-administration of vildagliptin and metformin as separate tablets: Zomarist should be initiated at the dose of vildagliptin and metformin already being taken.

- For patients inadequately controlled on dual combination with metformin and a sulphonylurea: The doses of Zomarist should provide vildagliptin as 50 mg twice daily (100 mg total daily dose) and a dose of metformin similar to the dose already being taken. When Zomarist is used in combination with a sulphonylurea, a lower dose of the sulphonylurea may be considered to reduce the risk of hypoglycaemia.

- For patients inadequately controlled on dual combination therapy with insulin and the maximal tolerated dose of metformin
The dose of Zomarist should provide vildagliptin dosed as 50 mg twice daily (100 mg total daily dose) and a dose of metformin similar to the dose already being taken.

The safety and efficacy of vildagliptin and metformin as triple oral therapy in combination with a thiazolidinedione have not been established.

Special populations

Elderly (≥ 65 years)

As metformin is excreted via the kidney, and elderly patients have a tendency to decreased renal function, elderly patients taking Zomarist should have their renal function monitored regularly (see sections 4.4 and 5.2).

Renal impairment

A GFR should be assessed before initiation of treatment with metformin-containing products and at least annually thereafter. In patients at increased risk of further progression of renal impairment and in the elderly, renal function should be assessed more frequently, e.g. every 3-6 months.

The maximum daily dose of metformin should preferably be divided into 2-3 daily doses. Factors that may increase the risk of lactic acidosis (see section 4.4) should be reviewed before considering initiation of metformin in patients with $\text{GFR} < 60$ ml/min.

If no adequate strength of Zomarist is available, individual monocomponents should be used instead of the fixed dose combination.

GFR ml/min	Metformin	Vildagliptin
60-89	Maximum daily dose is 3000 mg. Dose reduction may be considered in relation to declining renal function.	No dose adjustment.
45-59	Maximum daily dose is 2000 mg. The starting dose is at most half of the maximum dose.	Maximal daily dose is 50 mg.
30-44	Maximum daily dose is 1000 mg. The starting dose is at most half of the maximum dose.	
<30	Metformin is contraindicated.	

Hepatic impairment

Zomarist should not be used in patients with hepatic impairment, including those with pre-treatment alanine aminotransferase (ALT) or aspartate aminotransferase (AST) > 3 times the upper limit of normal (ULN) (see sections 4.3, 4.4 and 4.8).

Paediatric population

Zomarist is not recommended for use in children and adolescents (< 18 years). The safety and efficacy of Zomarist in children and adolescents (< 18 years) have not been established. No data are available.

Method of administration

Oral use.

Taking Zomarist with or just after food may reduce gastrointestinal symptoms associated with metformin (see also section 5.2).

4.3 Contraindications

- Hypersensitivity to the active substances or to any of the excipients listed in section 6.1
- Any type of acute metabolic acidosis (such as lactic acidosis, diabetic ketoacidosis)
- Diabetic pre-coma
- Severe renal failure (GFR < 30 ml/min) (see section 4.4)
- Acute conditions with the potential to alter renal function, such as:
 - dehydration,
 - severe infection,
 - shock,
 - intravascular administration of iodinated contrast agents (see section 4.4).
- Acute or chronic disease which may cause tissue hypoxia, such as:
 - cardiac or respiratory failure,
 - recent myocardial infarction,
 - shock.
- Hepatic impairment (see sections 4.2, 4.4 and 4.8)
- Acute alcohol intoxication, alcoholism
- Breast-feeding (see section 4.6)

4.4 Special warnings and precautions for use

General

Zomarist is not a substitute for insulin in insulin-requiring patients and should not be used in patients with type 1 diabetes.

Lactic acidosis

Lactic acidosis, a very rare but serious metabolic complication, most often occurs at acute worsening of renal function or cardiorespiratory illness or sepsis. Metformin accumulation occurs at acute worsening of renal function and increases the risk of lactic acidosis.

In case of dehydration (severe diarrhoea or vomiting, fever, or reduced fluid intake), metformin should be temporarily discontinued and contact with a healthcare professional is recommended.

Medicinal products that can acutely impair renal function (such as antihypertensives, diuretics and NSAIDs) should be initiated with caution in metformin-treated patients. Other risk factors for lactic acidosis are excessive alcohol intake, hepatic insufficiency, inadequately controlled diabetes, ketosis, prolonged fasting and any conditions associated with hypoxia, as well as concomitant use of medicinal products that may cause lactic acidosis (see also sections 4.3 and 4.5).

Patients and/or care-givers should be informed of the risk of lactic acidosis. Lactic acidosis is characterised by acidotic dyspnoea, abdominal pain, muscle cramps, asthenia and hypothermia followed by coma. In case of suspected symptoms, the patient should stop taking metformin and seek immediate medical attention. Diagnostic laboratory findings are decreased blood pH (< 7.35),

increased plasma lactate levels (> 5 mmol/l) and an increased anion gap and lactate/pyruvate ratio.

Administration of iodinated contrast agents

Intravascular administration of iodinated contrast agents may lead to contrast-induced nephropathy, resulting in metformin accumulation and increased risk of lactic acidosis. Metformin should be discontinued prior to or at the time of the imaging procedure and not restarted until at least 48 hours after, provided that renal function has been re-evaluated and found to be stable (see sections 4.2 and 4.5).

Patients with known or suspected mitochondrial diseases

In patients with known mitochondrial diseases such as Mitochondrial Encephalopathy with Lactic Acidosis, and Stroke-like episodes (MELAS) syndrome and Maternal inherited diabetes and deafness (MIDD), metformin is not recommended due to the risk of lactic acidosis exacerbation and neurologic complications which may lead to worsening of the disease.

In case of signs and symptoms suggestive of MELAS syndrome or MIDD after the intake of metformin, treatment with metformin should be withdrawn immediately and prompt diagnostic evaluation should be performed.

Renal function

GFR should be assessed before treatment initiation and regularly thereafter (see section 4.2). Metformin is contraindicated in patients with GFR <30 ml/min and should be temporarily discontinued in the presence of conditions that alter renal function (see section 4.3).

Concomitant medicinal products that may affect renal function, result in significant haemodynamic change, or inhibit renal transport and increase metformin systemic exposure, should be used with caution (see section 4.5).

Hepatic impairment

Patients with hepatic impairment, including those with pre-treatment ALT or AST $> 3\times$ ULN, should not be treated with Zomarist (see sections 4.2, 4.3 and 4.8).

Liver enzyme monitoring

Rare cases of hepatic dysfunction (including hepatitis) have been reported with vildagliptin. In these cases, the patients were generally asymptomatic without clinical sequelae and liver function tests (LFTs) returned to normal after discontinuation of treatment. LFTs should be performed prior to the initiation of treatment with Zomarist in order to know the patient's baseline value. Liver function should be monitored during treatment with Zomarist at three-month intervals during the first year and periodically thereafter. Patients who develop increased transaminase levels should be monitored with a second liver function evaluation to confirm the finding and be followed thereafter with frequent LFTs until the abnormality(ies) return(s) to normal. Should an increase in AST or in ALT of $3\times$ ULN or greater persist, withdrawal of Zomarist therapy is recommended. Patients who develop jaundice or other signs suggestive of liver dysfunction should discontinue Zomarist.

Following withdrawal of treatment with Zomarist and LFT normalisation, treatment with Zomarist should not be re-initiated.

Skin disorders

Skin lesions, including blistering and ulceration have been reported with vildagliptin in extremities of monkeys in non-clinical toxicology studies (see section 5.3). Although skin lesions were not observed at an increased incidence in clinical trials, there was limited experience in patients with diabetic skin complications. Furthermore, there have been post-marketing reports of bullous and exfoliative skin lesions. Therefore, in keeping with routine care of the diabetic patient, monitoring for skin disorders, such as blistering or ulceration, is recommended.

Acute pancreatitis

Use of vildagliptin has been associated with a risk of developing of acute pancreatitis. Patients should be informed of the characteristic symptom of acute pancreatitis.

If pancreatitis is suspected, vildagliptin should be discontinued if acute pancreatitis is confirmed, vildagliptin should not be restarted. Caution should be exercised in patients with history of acute pancreatitis.

Hypoglycaemia

Sulphonylureas are known to cause hypoglycaemia. Patients receiving vildagliptin in combination with a sulphonylurea may be at risk for hypoglycaemia. Therefore, a lower dose of sulphonylurea may be considered to reduce the risk of hypoglycaemia.

Surgery

Metformin must be discontinued at the time of surgery under general, spinal or epidural anaesthesia. Therapy may be restarted no earlier than 48 hours following surgery or resumption of oral nutrition and provided that renal function has been re-evaluated and found to be stable.

4.5 Interaction with other medicinal products and other forms of interaction

There have been no formal interaction studies for Zomarist. The following statements reflect the information available on the individual active substances.

Vildagliptin

Vildagliptin has a low potential for interactions with co-administered medicinal products. Since vildagliptin is not a cytochrome P (CYP) 450 enzyme substrate and does not inhibit or induce CYP 450 enzymes, it is not likely to interact with active substances that are substrates, inhibitors or inducers of these enzymes.

Results from clinical trials conducted with the oral antidiabetics pioglitazone, metformin and glyburide in combination with vildagliptin have shown no clinically relevant pharmacokinetic interactions in the target population.

Drug-drug interaction studies with digoxin (P-glycoprotein substrate) and warfarin (CYP2C9 substrate) in healthy subjects have shown no clinically relevant pharmacokinetic interactions after co-administration with vildagliptin.

Drug-drug interaction studies in healthy subjects were conducted with amlodipine, ramipril, valsartan and simvastatin. In these studies, no clinically relevant pharmacokinetic interactions were observed after co-administration with vildagliptin. However, this has not been established in the target population.

Combination with ACE inhibitors

There may be an increased risk of angioedema in patients concomitantly taking ACE inhibitors. (see section 4.8).

As with other oral antidiabetic medicinal products the hypoglycaemic effect of vildagliptin may be reduced by certain active substances, including thiazides, corticosteroids, thyroid products and sympathomimetics.

Metformin

Combinations not recommended

Alcohol

Alcohol intoxication is associated with an increased risk of lactic acidosis, particularly in cases of fasting, malnutrition or hepatic impairment.

Iodinated contrast agents

Metformin must be discontinued prior to or at the time of the imaging procedure and not restarted until at least 48 hours after, provided that renal function has been re-evaluated and found to be stable (see sections 4.2 and 4.4).

Combinations requiring precautions for use

Some medicinal products can adversely affect renal function which may increase the risk of lactic acidosis, e.g. NSAIDs, including selective cyclo-oxygenase (COX) II inhibitors, ACE inhibitors, angiotensin II receptor antagonists and diuretics, especially loop diuretics. When starting or using such products in combination with metformin, close monitoring of renal function is necessary.

Glucocorticoids, beta-2-agonists, and diuretics have intrinsic hyperglycaemic activity. The patient should be informed and more frequent blood glucose monitoring performed, especially at the beginning of treatment. If necessary, the dosage of Zomarist may need to be adjusted during concomitant therapy and on its discontinuation.

Angiotensin converting enzyme (ACE) inhibitors may decrease the blood glucose levels. If necessary, the dosage of the antihyperglycaemic medicinal product should be adjusted during therapy with the other medicinal product and on its discontinuation.

Concomitant use of medicinal products that interfere with common renal tubular transport systems involved in the renal elimination of metformin (e.g. organic cationic transporter-2 [OCT2] / multidrug and toxin extrusion [MATE] inhibitors such as ranolazine, vandetanib, dolutegravir and cimetidine) could increase systemic exposure to metformin.

4.6 Fertility, pregnancy and lactation

Pregnancy

There are no adequate data from the use of Zomarist in pregnant women. For vildagliptin studies in animals have shown reproductive toxicity at high doses. For metformin, studies in animals have not shown reproductive toxicity. Studies in animals performed with vildagliptin and metformin have not shown evidence of teratogenicity, but foetotoxic effects at maternotoxic doses (see section 5.3). The potential risk for humans is unknown. Zomarist should not be used during pregnancy.

Breast-feeding

Studies in animals have shown excretion of both metformin and vildagliptin in milk. It is unknown whether vildagliptin is excreted in human milk, but metformin is excreted in human milk in low amounts. Due to both the potential risk of neonate hypoglycaemia related to metformin and the lack of human data with vildagliptin, Zomarist should not be used during breast-feeding (see section 4.3).

Fertility

No studies on the effect on human fertility have been conducted for Zomarist (see section 5.3).

4.7 Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed. Patients who may experience dizziness as an adverse reaction should avoid driving vehicles or using machines.

4.8 Undesirable effects

Summary of the safety profile

Safety data were obtained from a total of 6 197 patients exposed to vildagliptin/metformin in randomised placebo-controlled trials. Of these patients, 3 698 patients received vildagliptin/metformin and 2 499 patients received placebo/metformin.

There have been no therapeutic clinical trials conducted with Zomarist. However, bioequivalence of Zomarist with co-administered vildagliptin and metformin has been demonstrated (see section 5.2).

The majority of adverse reactions were mild and transient, not requiring treatment discontinuations. No association was found between adverse reactions and age, ethnicity, duration of exposure or daily dose. Vildagliptin use is associated with the risk of development of pancreatitis. Lactic acidosis has been reported following the use of metformin, especially in patients with underlying renal impairment (see section 4.4).

Tabulated list of adverse reactions

Adverse reactions reported in patients who received vildagliptin in double-blind clinical trials as monotherapy and add-on therapies are listed below by system organ class and absolute frequency. Frequencies are defined as very common ($\geq 1/10$); common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1\,000$ to $< 1/100$); rare ($\geq 1/10\,000$ to $< 1/1\,000$); very rare ($< 1/10\,000$), not known (cannot be estimated from the available data). Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

Table 1 Adverse reactions reported in patients who received vildagliptin and metformin (as mono-components or as fixed dose combination), or in combination with other anti-diabetic treatments, in clinical trials and in post-marketing experience

System organ class - adverse reaction	Frequency
Infections and infestations	
Upper respiratory tract infection	Common
Nasopharyngitis	Common
Metabolism and nutrition disorders	
Hypoglycaemia	Uncommon
Loss of appetite	Uncommon
Decrease of vitamin B ₁₂ absorption and lactic acidosis	Very rare*
Nervous system disorders	
Dizziness	Common
Headache	Common
Tremor	Common
Metallic taste	Uncommon
Gastrointestinal disorders	
Vomiting	Common
Diarrhoea	Common
Nausea	Common
Gastro-oesophageal reflux disease	Common
Flatulence	Common
Constipation	Common
Abdominal pain including upper	Common
Pancreatitis	Uncommon
Hepatobiliary disorders	
Hepatitis	Uncommon

Skin and subcutaneous tissue disorders	
Hyperhidrosis	Common
Pruritis	Common
Rash	Common
Dermatitis	Common
Erythema	Uncommon
Urticaria	Uncommon
Exfoliative and bullous skin lesions, including bullous pemphigoid	Not known [†]
Cutaneous vasculitis	Not known [†]
Musculoskeletal and connective tissue disorders	
Arthralgia	Common
Myalgia	Uncommon
General disorders and administration site conditions	
Asthenia	Common
Fatigue	Uncommon
Chills	Uncommon
Oedema peripheral	Uncommon
Investigations	
Abnormal liver function tests	Uncommon
<p>* Adverse reactions reported in patients who received metformin as monotherapy and that were not observed in patients who received vildagliptin+metformin fixed dose combination. Refer to summary of product characteristics for metformin for additional information.</p> <p>† Based on post-marketing experience.</p>	

Description of selected adverse reactions

Vildagliptin

Hepatic impairment

Rare cases of hepatic dysfunction (including hepatitis) have been reported with vildagliptin. In these cases, the patients were generally asymptomatic without clinical sequelae and liver function returned to normal after discontinuation of treatment. In data from controlled monotherapy and add-on therapy trials of up to 24 weeks in duration, the incidence of ALT or AST elevations $\geq 3 \times$ ULN (classified as present on at least 2 consecutive measurements or at the final on-treatment visit) was 0.2%, 0.3% and 0.2% for vildagliptin 50 mg once daily, vildagliptin 50 mg twice daily and all comparators, respectively. These elevations in transaminases were generally asymptomatic, non-progressive in nature and not associated with cholestasis or jaundice.

Angioedema

Rare cases of angioedema have been reported on vildagliptin at a similar rate to controls. A greater proportion of cases were reported when vildagliptin was administered in combination with an ACE inhibitor. The majority of events were mild in severity and resolved with ongoing vildagliptin treatment.

Hypoglycaemia

Hypoglycaemia was uncommon when vildagliptin (0.4%) was used as monotherapy in comparative controlled monotherapy studies with an active comparator or placebo (0.2%). No severe or serious events of hypoglycaemia were reported. When used as add-on to metformin, hypoglycaemia occurred in 1% of vildagliptin-treated patients and in 0.4% of placebo-treated patients. When pioglitazone was added, hypoglycaemia occurred in 0.6% of vildagliptin-treated patients and in 1.9% of placebo-treated patients. When sulphonylurea was added, hypoglycaemia occurred in 1.2% of vildagliptin treated patients and in 0.6% of placebo-treated patients. When sulphonylurea and metformin were added, hypoglycaemia occurred in 5.1% of vildagliptin-treated patients and in 1.9% of placebo-treated patients. In patients taking vildagliptin in combination with insulin, the incidence of hypoglycaemia was 14% for vildagliptin and 16% for placebo.

Metformin

Decrease of vitamin B₁₂ absorption

A decrease in vitamin B₁₂ absorption with decrease in serum levels has been observed very rarely in patients who have been treated with metformin over a long period. Consideration of such aetiology is recommended if a patient presents with megaloblastic anaemia.

Liver function

Isolated cases of liver function test abnormalities or hepatitis resolving upon metformin discontinuation have been reported.

Gastrointestinal disorders

Gastrointestinal adverse reactions occur most frequently during initiation of therapy and resolve spontaneously in most cases. To prevent them, it is recommended that metformin be taken in 2 daily doses during or after meals. A slow increase in the dose may also improve gastrointestinal tolerability.

Reporting of suspected adverse reactions

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

4.9 Overdose

No data are available with regard to overdose of Zomarist.

Vildagliptin

Information regarding overdose with vildagliptin is limited.

Symptoms

Information on the likely symptoms of overdose with vildagliptin was taken from a rising dose tolerability study in healthy subjects given vildagliptin for 10 days. At 400 mg, there were three cases of muscle pain, and individual cases of mild and transient paraesthesia, fever, oedema and a transient increase in lipase levels. At 600 mg, one subject experienced oedema of the feet and hands, and increases in creatine phosphokinase (CPK), AST, C-reactive protein (CRP) and myoglobin levels. Three other subjects experienced oedema of the feet, with paraesthesia in two cases. All symptoms and laboratory abnormalities resolved without treatment after discontinuation of the study medicinal product.

Metformin

A large overdose of metformin (or co-existing risk of lactic acidosis) may lead to lactic acidosis, which is a medical emergency and must be treated in hospital.

Management

The most effective method of removing metformin is haemodialysis. However, vildagliptin cannot be removed by haemodialysis, although the major hydrolysis metabolite (LAY 151) can. Supportive management is recommended.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Drugs used in diabetes, combinations of oral blood glucose lowering

drugs, ATC code: A10BD08

Mechanism of action

Zomarist combines two antihyperglycaemic agents with complimentary mechanisms of action to improve glycaemic control in patients with type 2 diabetes: vildagliptin, a member of the islet enhancer class, and metformin hydrochloride, a member of the biguanide class.

Vildagliptin, a member of the islet enhancer class, is a potent and selective dipeptidyl-peptidase-4 (DPP-4) inhibitor. Metformin acts primarily by decreasing endogenous hepatic glucose production.

Pharmacodynamic effects

Vildagliptin

Vildagliptin acts primarily by inhibiting DPP-4, the enzyme responsible for the degradation of the incretin hormones GLP-1 (glucagon-like peptide-1) and GIP (glucose-dependent insulinotropic polypeptide).

The administration of vildagliptin results in a rapid and complete inhibition of DPP-4 activity resulting in increased fasting and postprandial endogenous levels of the incretin hormones GLP-1 and GIP.

By increasing the endogenous levels of these incretin hormones, vildagliptin enhances the sensitivity of beta cells to glucose, resulting in improved glucose-dependent insulin secretion. Treatment with vildagliptin 50-100 mg daily in patients with type 2 diabetes significantly improved markers of beta cell function including HOMA- β (Homeostasis Model Assessment- β), proinsulin to insulin ratio and measures of beta cell responsiveness from the frequently-sampled meal tolerance test. In non-diabetic (normal glycaemic) individuals, vildagliptin does not stimulate insulin secretion or reduce glucose levels.

By increasing endogenous GLP-1 levels, vildagliptin also enhances the sensitivity of alpha cells to glucose, resulting in more glucose-appropriate glucagon secretion.

The enhanced increase in the insulin/glucagon ratio during hyperglycaemia due to increased incretin hormone levels results in a decrease in fasting and postprandial hepatic glucose production, leading to reduced glycaemia.

The known effect of increased GLP-1 levels delaying gastric emptying is not observed with vildagliptin treatment.

Metformin

Metformin is a biguanide with antihyperglycaemic effects, lowering both basal and postprandial plasma glucose. It does not stimulate insulin secretion and therefore does not produce hypoglycaemia or increased weight gain.

Metformin may exert its glucose-lowering effect via three mechanisms:

- by reduction of hepatic glucose production through inhibition of gluconeogenesis and glycogenolysis;
- in muscle, by modestly increasing insulin sensitivity, improving peripheral glucose uptake and utilisation;
- by delaying intestinal glucose absorption.

Metformin stimulates intracellular glycogen synthesis by acting on glycogen synthase and increases the transport capacity of specific types of membrane glucose transporters (GLUT-1 and GLUT-4).

In humans, independently of its action on glycaemia, metformin has favourable effects on lipid metabolism. This has been shown at therapeutic doses in controlled, medium-term or long-term clinical studies: metformin reduces serum levels of total cholesterol, LDL cholesterol and triglycerides.

The prospective randomised UKPDS (UK Prospective Diabetes Study) study has established the long-term benefit of intensive blood glucose control in type 2 diabetes. Analysis of the results for overweight patients treated with metformin after failure of diet alone showed:

- a significant reduction in the absolute risk of any diabetes-related complication in the metformin group (29.8 events/1 000 patient-years) versus diet alone (43.3 events/1 000 patient-years), $p=0.0023$, and versus the combined sulphonylurea and insulin monotherapy groups (40.1 events/1 000 patient-years), $p=0.0034$;
- a significant reduction in the absolute risk of diabetes-related mortality: metformin 7.5 events/1 000 patient-years, diet alone 12.7 events/1 000 patient-years, $p=0.017$;
- a significant reduction in the absolute risk of overall mortality: metformin 13.5 events/1 000 patient-years versus diet alone 20.6 events/1 000 patient-years ($p=0.011$), and versus the combined sulphonylurea and insulin monotherapy groups 18.9 events/1,000 patient-years ($p=0.021$);
- a significant reduction in the absolute risk of myocardial infarction: metformin 11 events/1 000 patient-years, diet alone 18 events/1 000 patient-years ($p=0.01$).

Clinical efficacy and safety

Vildagliptin added to patients whose glycaemic control was not satisfactory despite treatment with metformin monotherapy resulted after 6-month treatment in additional statistically significant mean reductions in HbA_{1c} compared to placebo (between group differences of -0.7% to -1.1% for vildagliptin 50 mg and 100 mg, respectively). The proportion of patients who achieved a decrease in HbA_{1c} of $\geq 0.7\%$ from baseline was statistically significantly higher in both vildagliptin plus metformin groups (46% and 60%, respectively) versus the metformin plus placebo group (20%).

In a 24-week trial, vildagliptin (50 mg twice daily) was compared to pioglitazone (30 mg once daily) in patients inadequately controlled with metformin (mean daily dose: 2020 mg). Mean reductions from baseline HbA_{1c} of 8.4% were -0.9% with vildagliptin added to metformin and -1.0% with pioglitazone added to metformin. A mean weight gain of +1.9 kg was observed in patients receiving pioglitazone added to metformin compared to +0.3 kg in those receiving vildagliptin added to metformin.

In a clinical trial of 2 years' duration, vildagliptin (50 mg twice daily) was compared to glimepiride (up to 6 mg/day – mean dose at 2 years: 4.6 mg) in patients treated with metformin (mean daily dose: 1894 mg). After 1 year mean reductions in HbA_{1c} were -0.4% with vildagliptin added to metformin and -0.5% with glimepiride added to metformin, from a mean baseline HbA_{1c} of 7.3%. Body weight change with vildagliptin was -0.2 kg vs +1.6 kg with glimepiride. The incidence of hypoglycaemia was significantly lower in the vildagliptin group (1.7%) than in the glimepiride group (16.2%). At study endpoint (2 years), the HbA_{1c} was similar to baseline values in both treatment groups and the body weight changes and hypoglycaemia differences were maintained.

In a 52-week trial, vildagliptin (50 mg twice daily) was compared to gliclazide (mean daily dose: 229.5 mg) in patients inadequately controlled with metformin (metformin dose at baseline 1928 mg/day). After 1 year, mean reductions in HbA_{1c} were -0.81% with vildagliptin added to metformin (mean baseline HbA_{1c} 8.4%) and -0.85% with gliclazide added to metformin (mean baseline HbA_{1c} 8.5%); statistical non-inferiority was achieved (95% CI -0.11 – 0.20). Body weight change with vildagliptin was +0.1 kg compared to a weight gain of +1.4 kg with gliclazide.

In a 24-week trial the efficacy of the fixed dose combination of vildagliptin and metformin (gradually titrated to a dose of 50 mg/500 mg twice daily or 50 mg/1000 mg twice daily) as initial therapy in drug-naïve patients was evaluated. Vildagliptin/metformin 50 mg/1000 mg twice daily reduced HbA_{1c} by -1.82%, vildagliptin/metformin 50 mg/500 mg twice daily by -1.61%, metformin 1000 mg twice daily by -1.36% and vildagliptin 50 mg twice daily by -1.09% from a mean baseline HbA_{1c} of 8.6%. The decrease in HbA_{1c} observed in patients with a baseline $\geq 10.0\%$ was greater.

A 24-week randomised, double-blind, placebo-controlled trial was conducted in 318 patients to evaluate the efficacy and safety of vildagliptin (50 mg twice daily) in combination with metformin

(≥ 1500 mg daily) and glimepiride (≥ 4 mg daily). Vildagliptin in combination with metformin and glimepiride significantly decreased HbA_{1c} compared with placebo. The placebo-adjusted mean reduction from a mean baseline HbA_{1c} of 8.8% was -0.76%.

A five-year multi-centre, randomised, double-blind study (VERIFY) was conducted in patients with type 2 diabetes to evaluate the effect of an early combination therapy with vildagliptin and metformin (N = 998) against standard-of-care initial metformin monotherapy followed by combination with vildagliptin (sequential treatment group) (N = 1 003) in newly diagnosed patients with type 2 diabetes. The combination regimen of vildagliptin 50 mg twice daily plus metformin resulted in a statistically and clinically significant relative reduction in hazard for “time to confirmed initial treatment failure” (HbA_{1c} value $\geq 7\%$) vs metformin monotherapy in treatment-naïve patients with type 2 diabetes over the 5-year study duration (HR [95%CI]: 0.51 [0.45, 0.58]; $p < 0.001$). The incidence of initial treatment failure (HbA_{1c} value $\geq 7\%$) was 429 (43.6%) patients in the combination treatment group and 614 (62.1%) patients in the sequential treatment group.

A 24-week randomised, double-blind, placebo-controlled trial was conducted in 449 patients to evaluate the efficacy and safety of vildagliptin (50 mg twice daily) in combination with a stable dose of basal or premixed insulin (mean daily dose 41 units), with concomitant use of metformin (N=276) or without concomitant metformin (N=173). Vildagliptin in combination with insulin significantly decreased HbA_{1c} compared with placebo. In the overall population, the placebo-adjusted mean reduction from a mean baseline HbA_{1c} 8.8% was -0.72%. In the subgroups treated with insulin with or without concomitant metformin the placebo-adjusted mean reduction in HbA_{1c} was -0.63% and -0.84%, respectively. The incidence of hypoglycaemia in the overall population was 8.4% and 7.2% in the vildagliptin and placebo groups, respectively. Patients receiving vildagliptin experienced no weight gain (+0.2 kg) while those receiving placebo experienced weight reduction (-0.7 kg).

In another 24-week study in patients with more advanced type 2 diabetes not adequately controlled on insulin (short and longer acting, average insulin dose 80 IU/day), the mean reduction in HbA_{1c} when vildagliptin (50 mg twice daily) was added to insulin was statistically significantly greater than with placebo plus insulin (0.5% vs. 0.2%). The incidence of hypoglycaemia was lower in the vildagliptin group than in the placebo group (22.9% vs. 29.6%).

Cardiovascular risk

A meta-analysis of independently and prospectively adjudicated cardiovascular events from 37 phase III and IV monotherapy and combination therapy clinical studies of up to more than 2 years duration (mean exposure 50 weeks for vildagliptin and 49 weeks for comparators) was performed and showed that vildagliptin treatment was not associated with an increase in cardiovascular risk versus comparators. The composite endpoint of adjudicated major adverse cardiovascular events (MACE) including acute myocardial infarction, stroke or cardiovascular death was similar for vildagliptin versus combined active and placebo comparators [Mantel–Haenszel risk ratio (M-H RR) 0.82 (95% CI 0.61-1.11)]. A MACE occurred in 83 out of 9 599 (0.86%) vildagliptin-treated patients and in 85 out of 7 102 (1.20%) comparator-treated patients. Assessment of each individual MACE component showed no increased risk (similar M-H RR). Confirmed heart failure (HF) events defined as HF requiring hospitalisation or new onset of HF were reported in 41 (0.43%) vildagliptin-treated patients and 32 (0.45%) comparator-treated patients with M-H RR 1.08 (95% CI 0.68-1.70).

Paediatric population

The European Medicines Agency has waived the obligation to submit the results of studies with vildagliptin in combination with metformin in all subsets of the paediatric population with type 2 diabetes mellitus (see section 4.2 for information on paediatric use).

5.2 Pharmacokinetic properties

Zomarist

Absorption

Bioequivalence has been demonstrated between Zomarist at three dose strengths (50 mg/500 mg, 50 mg/850 mg and 50 mg/1000 mg) versus free combination of vildagliptin and metformin hydrochloride tablets at the corresponding doses.

Food does not affect the extent and rate of absorption of vildagliptin from Zomarist. The rate and extent of absorption of metformin from Zomarist 50 mg/1000 mg were decreased when given with food as reflected by the decrease in C_{max} by 26%, AUC by 7% and delayed T_{max} (2.0 to 4.0 h).

The following statements reflect the pharmacokinetic properties of the individual active substances of Zomarist.

Vildagliptin

Absorption

Following oral administration in the fasting state, vildagliptin is rapidly absorbed with peak plasma concentrations observed at 1.7 hours. Food slightly delays the time to peak plasma concentration to 2.5 hours, but does not alter the overall exposure (AUC). Administration of vildagliptin with food resulted in a decreased C_{max} (19%) compared to dosing in the fasting state. However, the magnitude of change is not clinically significant, so that vildagliptin can be given with or without food. The absolute bioavailability is 85%.

Distribution

The plasma protein binding of vildagliptin is low (9.3%) and vildagliptin distributes equally between plasma and red blood cells. The mean volume of distribution of vildagliptin at steady-state after intravenous administration (V_{ss}) is 71 litres, suggesting extravascular distribution.

Biotransformation

Metabolism is the major elimination pathway for vildagliptin in humans, accounting for 69% of the dose. The major metabolite (LAY 151) is pharmacologically inactive and is the hydrolysis product of the cyano moiety, accounting for 57% of the dose, followed by the amide hydrolysis product (4% of dose). DPP-4 contributes partially to the hydrolysis of vildagliptin based on an *in vivo* study using DPP-4 deficient rats. Vildagliptin is not metabolised by CYP 450 enzymes to any quantifiable extent, and accordingly the metabolic clearance of vildagliptin is not anticipated to be affected by co-medications that are CYP 450 inhibitors and/or inducers. *In vitro* studies demonstrated that vildagliptin does not inhibit/induce CYP 450 enzymes. Therefore, vildagliptin is not likely to affect metabolic clearance of co-medications metabolised by CYP 1A2, CYP 2C8, CYP 2C9, CYP 2C19, CYP 2D6, CYP 2E1 or CYP 3A4/5.

Elimination

Following oral administration of [^{14}C] vildagliptin, approximately 85% of the dose was excreted into the urine and 15% of the dose was recovered in the faeces. Renal excretion of the unchanged vildagliptin accounted for 23% of the dose after oral administration. After intravenous administration to healthy subjects, the total plasma and renal clearances of vildagliptin are 41 and 13 l/h, respectively. The mean elimination half-life after intravenous administration is approximately 2 hours. The elimination half-life after oral administration is approximately 3 hours.

Linearity/non-linearity

The C_{max} for vildagliptin and the area under the plasma concentrations versus time curves (AUC) increased in an approximately dose proportional manner over the therapeutic dose range.

Characteristics in patients

Gender: No clinically relevant differences in the pharmacokinetics of vildagliptin were observed

between male and female healthy subjects within a wide range of age and body mass index (BMI). DPP-4 inhibition by vildagliptin is not affected by gender.

Age: In healthy elderly subjects (≥ 70 years), the overall exposure of vildagliptin (100 mg once daily) was increased by 32%, with an 18% increase in peak plasma concentration as compared to young healthy subjects (18-40 years). These changes are not considered to be clinically relevant, however. DPP-4 inhibition by vildagliptin is not affected by age.

Hepatic impairment: In subjects with mild, moderate or severe hepatic impairment (Child-Pugh A-C) there were no clinically significant changes (maximum ~30%) in exposure to vildagliptin.

Renal impairment: In subjects with mild, moderate, or severe renal impairment, systemic exposure to vildagliptin was increased (C_{\max} 8-66%; AUC 32-134%) and total body clearance was reduced compared to subjects with normal renal function.

Ethnic group: Limited data suggest that race does not have any major influence on vildagliptin pharmacokinetics.

Metformin

Absorption

After an oral dose of metformin, the maximum plasma concentration (C_{\max}) is achieved after about 2.5 h. Absolute bioavailability of a 500 mg metformin tablet is approximately 50-60% in healthy subjects. After an oral dose, the non-absorbed fraction recovered in faeces was 20-30%.

After oral administration, metformin absorption is saturable and incomplete. It is assumed that the pharmacokinetics of metformin absorption are non-linear. At the usual metformin doses and dosing schedules, steady state plasma concentrations are reached within 24-48 h and are generally less than 1 $\mu\text{g/ml}$. In controlled clinical trials, maximum metformin plasma levels (C_{\max}) did not exceed 4 $\mu\text{g/ml}$, even at maximum doses.

Food slightly delays and decreases the extent of the absorption of metformin. Following administration of a dose of 850 mg, the plasma peak concentration was 40% lower, AUC was decreased by 25% and time to peak plasma concentration was prolonged by 35 minutes. The clinical relevance of this decrease is unknown.

Distribution

Plasma protein binding is negligible. Metformin partitions into erythrocytes. The mean volume of distribution (V_d) ranged between 63-276 litres.

Biotransformation

Metformin is excreted unchanged in the urine. No metabolites have been identified in humans.

Elimination

Metformin is eliminated by renal excretion. Renal clearance of metformin is > 400 ml/min, indicating that metformin is eliminated by glomerular filtration and tubular secretion. Following an oral dose, the apparent terminal elimination half-life is approximately 6.5 h. When renal function is impaired, renal clearance is decreased in proportion to that of creatinine and thus the elimination half-life is prolonged, leading to increased levels of metformin in plasma.

5.3 Preclinical safety data

Animal studies of up to 13-week duration have been conducted with the combined substances in Zomarist. No new toxicities associated with the combination were identified. The following data are findings from studies performed with vildagliptin or metformin individually.

Vildagliptin

Intra-cardiac impulse conduction delays were observed in dogs with a no-effect dose of 15 mg/kg (7-fold human exposure based on C_{\max}).

Accumulation of foamy alveolar macrophages in the lung was observed in rats and mice. The no-effect dose in rats was 25 mg/kg (5-fold human exposure based on AUC) and in mice 750 mg/kg (142-fold human exposure).

Gastrointestinal symptoms, particularly soft faeces, mucoid faeces, diarrhoea and, at higher doses, faecal blood were observed in dogs. A no-effect level was not established.

Vildagliptin was not mutagenic in conventional *in vitro* and *in vivo* tests for genotoxicity.

A fertility and early embryonic development study in rats revealed no evidence of impaired fertility, reproductive performance or early embryonic development due to vildagliptin. Embryofoetal toxicity was evaluated in rats and rabbits. An increased incidence of wavy ribs was observed in rats in association with reduced maternal body weight parameters, with a no-effect dose of 75 mg/kg (10-fold human exposure). In rabbits, decreased foetal weight and skeletal variations indicative of developmental delays were noted only in the presence of severe maternal toxicity, with a no-effect dose of 50 mg/kg (9-fold human exposure). A pre- and postnatal development study was performed in rats. Findings were only observed in association with maternal toxicity at ≥ 150 mg/kg and included a transient decrease in body weight and reduced motor activity in the F1 generation.

A two-year carcinogenicity study was conducted in rats at oral doses up to 900 mg/kg (approximately 200 times human exposure at the maximum recommended dose). No increases in tumour incidence attributable to vildagliptin were observed. Another two-year carcinogenicity study was conducted in mice at oral doses up to 1000 mg/kg. An increased incidence of mammary adenocarcinomas and haemangiosarcomas was observed with a no-effect dose of 500 mg/kg (59-fold human exposure) and 100 mg/kg (16-fold human exposure), respectively. The increased incidence of these tumours in mice is considered not to represent a significant risk to humans based on the lack of genotoxicity of vildagliptin and its principal metabolite, the occurrence of tumours only in one species, and the high systemic exposure ratios at which tumours were observed.

In a 13-week toxicology study in cynomolgus monkeys, skin lesions have been recorded at doses ≥ 5 mg/kg/day. These were consistently located on the extremities (hands, feet, ears and tail). At 5 mg/kg/day (approximately equivalent to human AUC exposure at the 100 mg dose), only blisters were observed. They were reversible despite continued treatment and were not associated with histopathological abnormalities. Flaking skin, peeling skin, scabs and tail sores with correlating histopathological changes were noted at doses ≥ 20 mg/kg/day (approximately 3 times human AUC exposure at the 100 mg dose). Necrotic lesions of the tail were observed at ≥ 80 mg/kg/day. Skin lesions were not reversible in the monkeys treated at 160 mg/kg/day during a 4-week recovery period.

Metformin

Non-clinical data on metformin reveal no special hazard for humans based on conventional studies of safety pharmacology, repeated dose toxicity, genotoxicity, carcinogenic potential and toxicity to reproduction.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Tablet core

Hydroxypropylcellulose
Magnesium stearate

Film-coating

Hypromellose
Titanium dioxide (E 171)
Iron oxide, yellow (E 172)
Macrogol 4000
Talc

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

PA/alu/PVC/alu 2 years
PCTFE/PVC/alu 18 months
PVC/PE/PVDC/alu 18 months

6.4 Special precautions for storage

Do not store above 30°C.
Store in the original package (blister) in order to protect from moisture.

6.5 Nature and contents of container

Aluminium/Aluminium (PA/alu/PVC/alu) blister
Available in packs containing 10, 30, 60, 120, 180 or 360 film-coated tablets and in multi-packs containing 120 (2 packs of 60), 180 (3 packs of 60) or 360 (6 packs of 60) film-coated tablets.

Polychlorotrifluoroethylene (PCTFE/PVC/alu) blister
Available in packs containing 10, 30, 60, 120, 180 or 360 film-coated tablets and in multi-packs containing 120 (2 packs of 60), 180 (3 packs of 60) or 360 (6 packs of 60) film-coated tablets.

Polyvinylchloride/Polyethylene/Polyvinylidene chloride/Aluminium (PVC/PE/PVDC/alu) blister
Available in packs containing 10, 30, 60, 120, 180 or 360 film-coated tablets and in multi-packs containing 120 (2 packs of 60), 180 (3 packs of 60) or 360 (6 packs of 60) film-coated tablets.

Not all pack sizes and tablet strengths may be marketed.

6.6 Special precautions for disposal

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

7. MARKETING AUTHORISATION HOLDER

Novartis Europharm Limited
Vista Building
Elm Park, Merrion Road
Dublin 4
Ireland

8. MARKETING AUTHORISATION NUMBER(S)

Zomarist 50 mg/850 mg film-coated tablets

EU/1/08/483/001-006
EU/1/08/483/013-015
EU/1/08/483/019-024
EU/1/08/483/031-033
EU/1/08/483/037-045

Zomarist 50 mg/1000 mg film-coated tablets

EU/1/08/483/007-012
EU/1/08/483/016-018
EU/1/08/483/025-030
EU/1/08/483/034-036
EU/1/08/483/046-054

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 01 December 2008
Date of latest renewal: 31 July 2013

10. DATE OF REVISION OF THE TEXT

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

ANNEX II

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

A. MANUFACTURER RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturer responsible for batch release

Lek d.d, PE PROIZVODNJA LENDA VA
Trimlini 2D
Lendava, 9220
Slovenia

Novartis Pharma GmbH
Roonstrasse 25
D-90429 Nürnberg
Germany

Novartis Pharmaceutical Manufacturing LLC
Verovškova ulica 57
1000 Ljubljana
Slovenia

Novartis Farmacéutica, S.A.
Gran Via de les Corts Catalanes, 764
08013 Barcelona
Spain

Novartis Pharma GmbH
Sophie-Germain-Strasse 10
90443 Nuremberg
Germany

The printed package leaflet of the medicinal product must state the name and address of the manufacturer responsible for the release of the concerned batch.

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to medical prescription.

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

• Periodic safety update reports (PSURs)

The requirements for submission of PSURs for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

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

• Risk management plan (RMP)

The marketing authorisation holder (MAH) shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the marketing authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

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

ANNEX III
LABELLING AND PACKAGE LEAFLET

A. LABELLING

PARTICULARS TO APPEAR ON THE OUTER PACKAGING**FOLDING BOX FOR UNIT PACK****1. NAME OF THE MEDICINAL PRODUCT**

Zomarist 50 mg/850 mg film-coated tablets
vildagliptin/metformin hydrochloride

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each tablet contains 50 mg vildagliptin and 850 mg metformin hydrochloride (corresponding to 660 mg of metformin).

3. LIST OF EXCIPIENTS**4. PHARMACEUTICAL FORM AND CONTENTS**

Film-coated tablet

10 film-coated tablets
30 film-coated tablets
60 film-coated tablets
120 film-coated tablets
180 film-coated tablets
360 film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use

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

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY**8. EXPIRY DATE**

EXP

9. SPECIAL STORAGE CONDITIONS

Do not store above 30°C.

Store in the original package (blister) in order to protect from moisture.

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Novartis Europharm Limited
Vista Building
Elm Park, Merrion Road
Dublin 4
Ireland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/08/483/001	10 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/002	30 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/003	60 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/004	120 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/005	180 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/006	360 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/019	10 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/020	30 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/021	60 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/022	120 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/023	180 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/024	360 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/037	10 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/038	30 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/039	60 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/040	120 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/041	180 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/042	360 film-coated tablets (PVC/PE/PVDC/alu)

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY**15. INSTRUCTIONS ON USE**

16. INFORMATION IN BRAILLE

Zomarist 50 mg/850 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

BLISTERS

1. NAME OF THE MEDICINAL PRODUCT

Zomarist 50 mg/850 mg film-coated tablets
vildagliptin/metformin hydrochloride

2. NAME OF THE MARKETING AUTHORISATION HOLDER

Novartis Europharm Limited

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. OTHER

PARTICULARS TO APPEAR ON THE OUTER PACKAGING**INTERMEDIATE CARTON OF MULTIPACKS (WITHOUT BLUE BOX)****1. NAME OF THE MEDICINAL PRODUCT**

Zomarist 50 mg/850 mg film-coated tablets
vildagliptin/metformin hydrochloride

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each tablet contains 50 mg vildagliptin and 850 mg metformin hydrochloride (corresponding to 660 mg of metformin).

3. LIST OF EXCIPIENTS**4. PHARMACEUTICAL FORM AND CONTENTS**

Film-coated tablet

60 film-coated tablets. Component of a multipack. Not to be sold separately.

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use

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

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY**8. EXPIRY DATE**

EXP

9. SPECIAL STORAGE CONDITIONS

Do not store above 30°C.
Store in the original package (blister) in order to protect from moisture.

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

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Novartis Europharm Limited
Vista Building
Elm Park, Merrion Road
Dublin 4
Ireland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/08/483/013	120 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/014	180 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/015	360 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/031	120 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/032	180 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/033	360 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/043	120 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/044	180 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/045	360 film-coated tablets (PVC/PE/PVDC/alu)

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Zomarist 50 mg/850 mg

PARTICULARS TO APPEAR ON THE OUTER PACKAGING**OUTER CARTON OF MULTIPACKS (INCLUDING BLUE BOX)****1. NAME OF THE MEDICINAL PRODUCT**

Zomarist 50 mg/850 mg film-coated tablets
vildagliptin/metformin hydrochloride

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each tablet contains 50 mg vildagliptin and 850 mg metformin hydrochloride (corresponding to 660 mg of metformin).

3. LIST OF EXCIPIENTS**4. PHARMACEUTICAL FORM AND CONTENTS**

Film-coated tablet

Multipack: 120 (2 packs of 60) film-coated tablets.

Multipack: 180 (3 packs of 60) film-coated tablets.

Multipack: 360 (6 packs of 60) film-coated tablets.

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use

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

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY**8. EXPIRY DATE**

EXP

9. SPECIAL STORAGE CONDITIONS

Do not store above 30°C.

Store in the original package (blister) in order to protect from moisture.

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Novartis Europharm Limited
Vista Building
Elm Park, Merrion Road
Dublin 4
Ireland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/08/483/013	120 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/014	180 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/015	360 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/031	120 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/032	180 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/033	360 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/043	120 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/044	180 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/045	360 film-coated tablets (PVC/PE/PVDC/alu)

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY**15. INSTRUCTIONS ON USE****16. INFORMATION IN BRAILLE**

Zomarist 50 mg/850 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN

PARTICULARS TO APPEAR ON THE OUTER PACKAGING**FOLDING BOX FOR UNIT PACK****1. NAME OF THE MEDICINAL PRODUCT**

Zomarist 50 mg/1000 mg film-coated tablets
vildagliptin/metformin hydrochloride

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each tablet contains 50 mg vildagliptin and 1000 mg metformin hydrochloride (corresponding to 780 mg of metformin).

3. LIST OF EXCIPIENTS**4. PHARMACEUTICAL FORM AND CONTENTS**

Film-coated tablet

10 film-coated tablets
30 film-coated tablets
60 film-coated tablets
120 film-coated tablets
180 film-coated tablets
360 film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use

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

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY**8. EXPIRY DATE**

EXP

9. SPECIAL STORAGE CONDITIONS

Do not store above 30°C.

Store in the original package (blister) in order to protect from moisture.

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Novartis Europharm Limited
Vista Building
Elm Park, Merrion Road
Dublin 4
Ireland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/08/483/007	10 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/008	30 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/009	60 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/010	120 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/011	180 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/012	360 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/025	10 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/026	30 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/027	60 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/028	120 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/029	180 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/030	360 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/046	10 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/047	30 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/048	60 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/049	120 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/050	180 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/051	360 film-coated tablets (PVC/PE/PVDC/alu)

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY**15. INSTRUCTIONS ON USE**

16. INFORMATION IN BRAILLE

Zomarist 50 mg/1000 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

BLISTERS

1. NAME OF THE MEDICINAL PRODUCT

Zomarist 50 mg/1000 mg film-coated tablets
vildagliptin/metformin hydrochloride

2. NAME OF THE MARKETING AUTHORISATION HOLDER

Novartis Europharm Limited

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. OTHER

PARTICULARS TO APPEAR ON THE OUTER PACKAGING**INTERMEDIATE CARTON OF MULTIPACKS (WITHOUT BLUE BOX)****1. NAME OF THE MEDICINAL PRODUCT**

Zomarist 50 mg/1000 mg film-coated tablets
vildagliptin/metformin hydrochloride

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each tablet contains 50 mg vildagliptin and 1000 mg metformin hydrochloride (corresponding to 780 mg of metformin).

3. LIST OF EXCIPIENTS**4. PHARMACEUTICAL FORM AND CONTENTS**

Film-coated tablet

60 film-coated tablets. Component of a multipack. Not to be sold separately.

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use

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

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY**8. EXPIRY DATE**

EXP

9. SPECIAL STORAGE CONDITIONS

Do not store above 30°C.
Store in the original package (blister) in order to protect from moisture.

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

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Novartis Europharm Limited
Vista Building
Elm Park, Merrion Road
Dublin 4
Ireland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/08/483/016	120 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/017	180 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/018	360 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/034	120 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/035	180 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/036	360 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/052	120 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/053	180 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/054	360 film-coated tablets (PVC/PE/PVDC/alu)

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Zomarist 50 mg/1000 mg

PARTICULARS TO APPEAR ON THE OUTER PACKAGING**OUTER CARTON OF MULTIPACKS (INCLUDING BLUE BOX)****1. NAME OF THE MEDICINAL PRODUCT**

Zomarist 50 mg/1000 mg film-coated tablets
vildagliptin/metformin hydrochloride

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each tablet contains 50 mg vildagliptin and 1000 mg metformin hydrochloride (corresponding to 780 mg of metformin).

3. LIST OF EXCIPIENTS**4. PHARMACEUTICAL FORM AND CONTENTS**

Film-coated tablet

Multipack: 120 (2 packs of 60) film-coated tablets.

Multipack: 180 (3 packs of 60) film-coated tablets.

Multipack: 360 (6 packs of 60) film-coated tablets.

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use

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

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY**8. EXPIRY DATE**

EXP

9. SPECIAL STORAGE CONDITIONS

Do not store above 30°C.

Store in the original package (blister) in order to protect from moisture.

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

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12. MARKETING AUTHORISATION NUMBER(S)

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EU/1/08/483/017	180 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/018	360 film-coated tablets (PA/alu/PVC/alu)
EU/1/08/483/034	120 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/035	180 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/036	360 film-coated tablets (PCTFE/PVC/alu)
EU/1/08/483/052	120 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/053	180 film-coated tablets (PVC/PE/PVDC/alu)
EU/1/08/483/054	360 film-coated tablets (PVC/PE/PVDC/alu)

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY**15. INSTRUCTIONS ON USE****16. INFORMATION IN BRAILLE**

Zomarist 50 mg/1000 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN

B. PACKAGE LEAFLET

Package leaflet: Information for the user

Zomarist 50 mg/850 mg film-coated tablets Zomarist 50 mg/1000 mg film-coated tablets vildagliptin/metformin hydrochloride

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

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

What is in this leaflet

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

1. What Zomarist is and what it is used for

The active substances of Zomarist, vildagliptin and metformin, belong to a group of medicines called “oral antidiabetics”.

Zomarist is used to treat adult patients with type 2 diabetes. This type of diabetes is also known as non-insulin-dependent diabetes mellitus. Zomarist is used when diabetes cannot be controlled by diet and exercise alone and/or with other medicines used to treat diabetes (insulin or sulphonylureas).

Type 2 diabetes develops if the body does not make enough insulin or if the insulin that the body makes does not work as well as it should. It can also develop if the body produces too much glucagon.

Both insulin and glucagon are made in the pancreas. Insulin helps to lower the level of sugar in the blood, especially after meals. Glucagon triggers the liver to make sugar, causing the blood sugar level to rise.

How Zomarist works

Both active substances, vildagliptin and metformin, help to control the level of sugar in the blood. The substance vildagliptin works by making the pancreas produce more insulin and less glucagon. The substance metformin works by helping the body to make better use of insulin. This medicine has been shown to reduce blood sugar, which may help to prevent complications from your diabetes.

2. What you need to know before you take Zomarist

Do not take Zomarist

- if you are allergic to vildagliptin, metformin or any of the other ingredients of this medicine (listed in section 6). If you think you may be allergic to any of these, talk to your doctor before taking Zomarist.
- if you have uncontrolled diabetes, with, for example, severe hyperglycaemia (high blood glucose), nausea, vomiting, diarrhoea, rapid weight loss, lactic acidosis (see “Risk of lactic acidosis” below) or ketoacidosis. Ketoacidosis is a condition in which substances called ketone

bodies accumulate in the blood and which can lead to diabetic pre-coma. Symptoms include stomach pain, fast and deep breathing, sleepiness or your breath developing an unusual fruity smell.

- if you have recently had a heart attack or if you have heart failure or serious problems with your blood circulation or difficulties in breathing which could be a sign of heart problems.
- if you have severely reduced kidney function.
- if you have a severe infection or are seriously dehydrated (have lost a lot of water from your body).
- if you are going to have a contrast x-ray (a specific type of x-ray involving an injectable dye). Please also see information about this in section “Warnings and precautions”.
- if you have liver problems.
- if you drink alcohol excessively (whether every day or only from time to time).
- if you are breast-feeding (see also “Pregnancy and breast-feeding”).

Warnings and precautions

Risk of lactic acidosis

Zomarist may cause a very rare, but very serious side effect called lactic acidosis, particularly if your kidneys are not working properly. The risk of developing lactic acidosis is also increased with uncontrolled diabetes, serious infections, prolonged fasting or alcohol intake, dehydration (see further information below), liver problems and any medical conditions in which a part of the body has a reduced supply of oxygen (such as acute severe heart disease).

If any of the above apply to you, talk to your doctor for further instructions.

Stop taking Zomarist for a short time if you have a condition that may be associated with dehydration (significant loss of body fluids) such as severe vomiting, diarrhoea, fever, exposure to heat or if you drink less fluid than normal. Talk to your doctor for further instructions.

Stop taking Zomarist and contact a doctor or the nearest hospital immediately if you experience some of the symptoms of lactic acidosis, as this condition may lead to coma.

Symptoms of lactic acidosis include:

- vomiting
- stomach ache (abdominal pain)
- muscle cramps
- a general feeling of not being well with severe tiredness
- difficulty in breathing
- reduced body temperature and heartbeat

Lactic acidosis is a medical emergency and must be treated in a hospital.

Talk to your doctor promptly for further instructions if:

- You are known to suffer from a genetically inherited disease affecting mitochondria (the energy-producing components within cells) such as MELAS syndrome (Mitochondrial Encephalopathy, myopathy, Lactic acidosis and Stroke-like episodes) or Maternal inherited diabetes and deafness (MIDD).
- You have any of these symptoms after starting metformin: seizure, declined cognitive abilities, difficulty with body movements, symptoms indicating nerve damage (e.g. pain or numbness), migraine and deafness.

Zomarist is not a substitute for insulin. Therefore, you should not receive Zomarist for the treatment of type 1 diabetes.

Talk to your doctor, pharmacist or nurse before taking Zomarist if you have or have had a disease of the pancreas.

Talk to your doctor, pharmacist or nurse before taking Zomarist if you are taking an anti-diabetic medicine known as a sulphonylurea. Your doctor may want to reduce your dose of the sulphonylurea

when you take it together with Zomarist in order to avoid low blood glucose (hypoglycaemia).

If you have previously taken vildagliptin but had to stop taking it because of liver disease, you should not take this medicine.

Diabetic skin lesions are a common complication of diabetes. You are advised to follow the recommendations for skin and foot care that you are given by your doctor or nurse. You are also advised to pay particular attention to new onset of blisters or ulcers while taking Zomarist. Should these occur, you should promptly consult your doctor.

If you need to have major surgery you must stop taking Zomarist during and for some time after the procedure. Your doctor will decide when you must stop and when to restart your treatment with Zomarist.

A test to determine your liver function will be performed before the start of Zomarist treatment, at three-month intervals for the first year and periodically thereafter. This is so that signs of increased liver enzymes can be detected as early as possible.

During treatment with Zomarist, your doctor will check your kidney function at least once a year or more frequently if you are elderly and/or have worsening renal function.

Your doctor will test your blood and urine for sugar regularly.

Children and adolescents

The use of Zomarist in children and adolescents up to 18 years of age is not recommended.

Other medicines and Zomarist

If you need to have an injection of a contrast medium that contains iodine into your bloodstream, for example in the context of an X-ray or scan, you must stop taking Zomarist before or at the time of the injection. Your doctor will decide when you must stop and when to restart your treatment with Zomarist.

Tell your doctor if you are taking, have recently taken or might take any other medicines. You may need more frequent blood glucose and kidney function tests or your doctor may need to adjust the dosage of Zomarist. It is especially important to mention the following:

- glucocorticoids generally used to treat inflammation
- beta-2 agonists generally used to treat respiratory disorders
- other medicines used to treat diabetes
- medicines which increase urine production (diuretics)
- medicines used to treat pain and inflammation (NSAID and COX-2-inhibitors, such as ibuprofen and celecoxib)
- certain medicines for the treatment of high blood pressure (ACE inhibitors and angiotensin II receptor antagonists)
- certain medicines affecting the thyroid
- certain medicines affecting the nervous system
- certain medicines used to treat angina (e.g. ranolazine)
- certain medicines used to treat HIV infection (e.g. dolutegravir)
- certain medicines used to treat a specific type of thyroid cancer (medullary thyroid cancer) (e.g. vandetanib)
- certain medicines used to treat heartburn and peptic ulcers (e.g. cimetidine)

Zomarist with alcohol

Avoid excessive alcohol intake while taking Zomarist since this may increase the risk of lactic acidosis (please see section “Warnings and precautions”).

Pregnancy and breast-feeding

- If you are pregnant, think you may be pregnant or are planning to have a baby, ask your doctor

for advice before taking this medicine. Your doctor will discuss with you the potential risk of taking Zomarist during pregnancy.

- Do not use Zomarist if you are pregnant or breast-feeding (see also “Do not take Zomarist”).

Ask your doctor or pharmacist for advice before taking any medicine.

Driving and using machines

If you feel dizzy while taking Zomarist, do not drive or use any tools or machines.

3. How to take Zomarist

The amount of Zomarist that people have to take varies depending on their condition. Your doctor will tell you exactly the dose of Zomarist to take.

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

The recommended dose is one film-coated tablet of either 50 mg/850 mg or 50 mg/1000 mg taken twice a day

If you have reduced kidney function, your doctor may prescribe a lower dose. Also if you are taking an anti-diabetic medicine known as a sulphonylurea your doctor may prescribe a lower dose.

Your doctor may prescribe this medicine alone or with certain other medicines that lower the level of sugar in your blood.

When and how to take Zomarist

- Swallow the tablets whole with a glass of water,
- Take one tablet in the morning and the other in the evening with or just after food. Taking the tablet just after food will lower the risk of an upset stomach.

Continue to follow any advice about diet that your doctor has given you. In particular, if you are following a diabetic weight control diet, continue with this while you are taking Zomarist.

If you take more Zomarist than you should

If you take too many Zomarist tablets, or if someone else takes your tablets, **talk to a doctor or pharmacist immediately**. Medical attention may be necessary. If you have to go to a doctor or hospital, take the pack and this leaflet with you.

If you forget to take Zomarist

If you forget to take a tablet, take it with your next meal unless you are due to take one then anyway. Do not take a double dose (two tablets at once) to make up for a forgotten tablet.

If you stop taking Zomarist

Continue to take this medicine as long as your doctor prescribes it so that it can continue to control your blood sugar. Do not stop taking Zomarist unless your doctor tells you to. If you have any questions about how long to take this medicine, talk to your doctor.

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

4. Possible side effects

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

You should **stop taking Zomarist and see your doctor immediately** if you experience the following

side effects:

- **Lactic acidosis** (very rare: may affect up to 1 in 10 000 people): Zomarist may cause a very rare, but very serious side effect called lactic acidosis (see section “Warnings and precautions”). If this happens you must **stop taking Zomarist and contact a doctor or the nearest hospital immediately**, as lactic acidosis may lead to coma.
- **Angioedema** (rare: may affect up to 1 in 1 000 people): Symptoms include swollen face, tongue or throat, difficulty swallowing, difficulty breathing, sudden onset of rash or hives, which may indicate a reaction called “angioedema”.
- **Liver disease (hepatitis)** (uncommon: may affect up to 1 in 100 people): Symptoms include yellow skin and eyes, nausea, loss of appetite or dark-coloured urine, which may indicate liver disease (hepatitis).
- **Inflammation of the pancreas (pancreatitis)** (uncommon: may affect up to 1 in 100 people): Symptoms include severe and persistent pain in the abdomen (stomach area), which might reach through to your back, as well as nausea and vomiting.

Other side effects

Some patients have experienced the following side effects while taking Zomarist:

- **Common** (may affect up to 1 in 10 people): sore throat, runny nose, fever, itchy rash, excessive sweating, joint pain, dizziness, headache, trembling that cannot be controlled, constipation, nausea (feeling sick), vomiting, diarrhoea, flatulence, heartburn, pain in and around the stomach (abdominal pain).
- **Uncommon** (may affect up to 1 in 100 people): tiredness, weakness, metallic taste, low blood glucose, loss of appetite, swollen hands, ankles or feet (oedema), chills, inflammation of the pancreas, muscle pain.
- **Very rare** (may affect up to 1 in 10 000 people): signs of a high level of lactic acid in the blood (known as lactic acidosis) such as drowsiness or dizziness, severe nausea or vomiting, abdominal pain, irregular heart beat or deep, rapid breathing; redness of the skin, itching; decreased vitamin B12 levels (paleness, tiredness, mental symptoms such as confusion or memory disturbances).

Since this product has been marketed, the following side effects have also been reported:

- **Frequency not known** (cannot be estimated from the available data): localised peeling of skin or blisters, blood vessel inflammation (vasculitis) which may result in skin rash or pointed, flat, red, round spots under the skin's surface or bruising.

Reporting of side effects

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

5. How to store Zomarist

- 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 blister and carton after “EXP”. The expiry date refers to the last day of that month.
- Do not store above 30°C.
- Store in the original package (blister) in order to protect from moisture.
- Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Zomarist contains

- The active substances are vildagliptin and metformin hydrochloride.
- Each Zomarist 50 mg/850 mg film-coated tablet contains 50 mg vildagliptin and 850 mg metformin hydrochloride (corresponding to 660 mg of metformin).
- Each Zomarist 50 mg/1000 mg film-coated tablet contains 50 mg vildagliptin and 1000 mg metformin hydrochloride (corresponding to 780 mg of metformin).
- The other ingredients are: Hydroxypropylcellulose, magnesium stearate, hypromellose, titanium dioxide (E 171), yellow iron oxide (E 172), macrogol 4000 and talc.

What Zomarist looks like and contents of the pack

Zomarist 50 mg/850 mg film-coated tablets are yellow, oval tablets with “NVR” on one side and “SEH” on the other.

Zomarist 50 mg/1000 mg film-coated tablets are dark yellow, oval tablets with “NVR” on one side and “FLO” on the other.

Zomarist is available in packs containing 10, 30, 60, 120, 180 or 360 film-coated tablets and in multi-packs containing 120 (2x60), 180 (3x60) or 360 (6x60) film-coated tablets. Not all pack sizes and tablet strengths may be available in your country.

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Other sources of information

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